



Optical Component and Module

Optizone Technology (Shenzhen) Limited

COMPANY PROFILE

About Us

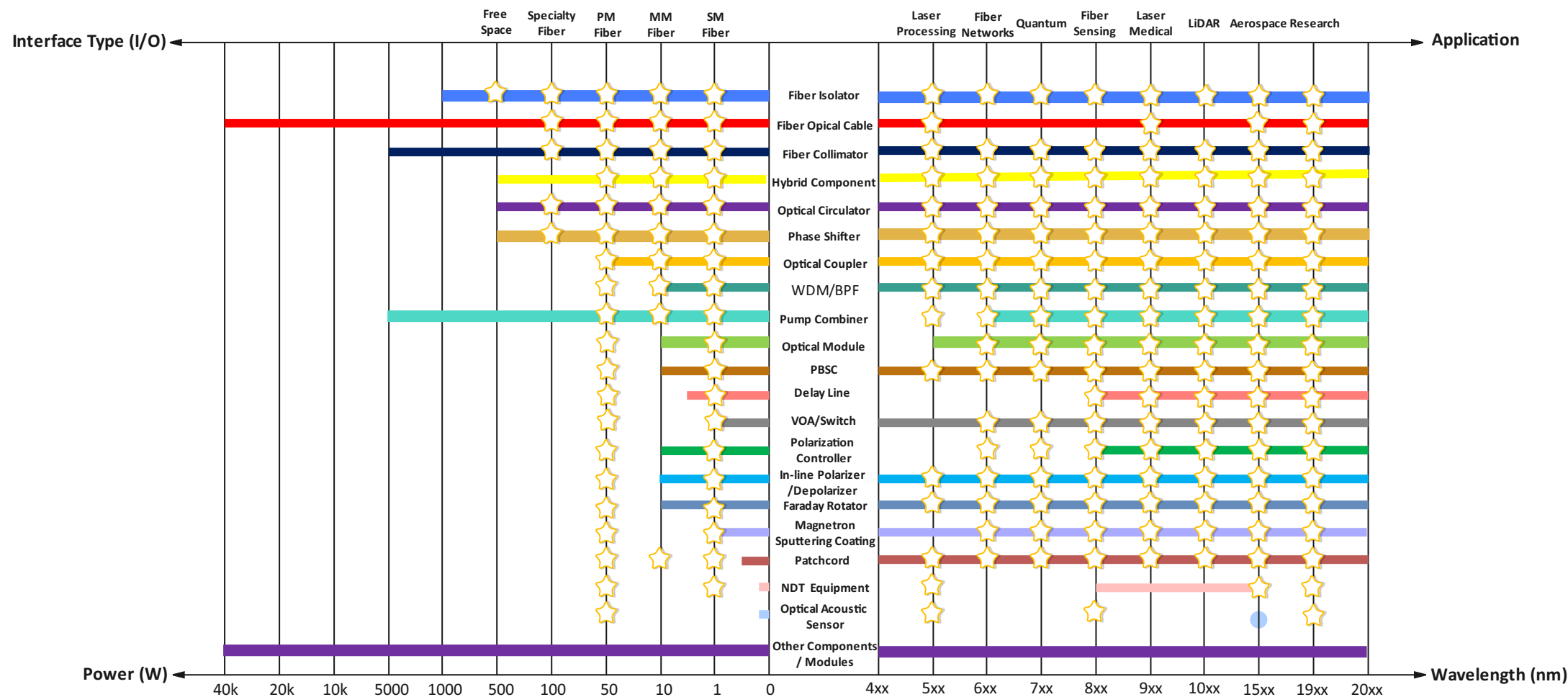


- Founded in 2007, Shenzhen, China
- Covering an area of 9,800 m² with workshop and clean room
- National high-tech enterprise integrating R&D, production and marketing of optical components.
- Engineering and R&D Center for polarization maintaining & high power components in Guangdong province.
- Shenzhen Postdoctoral Innovation Practice Base.
- Pioneer of high power optical isolator volume production in China.
- Provide optical module for quantum communication "Micius" project.
- Large-scale R&D and production base for high power fiber optical cable in China.
- Specific R&D and production base in ultrafast laser passive components.

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Optizone Product Matrix Table



Remark:

1. All product sizes can be customized. For customization requests, please contact our marketing or sales representatives.

2.  Power and Wavelength Range

 Applicable Interface Types (I/O) and Application Scenarios

Tips: Copy the spec to search and jump within the PDF.

Fiber Isolator				
Product	Wavelength	Power	PM Spec NO.	Non-PM Spec NO.
In-Line Isolator (PII/PMI/HPII/HPMI)	5xx nm	1W	SR2003002A	
	6xx nm	1W	SR2410014A	SR1709008B
	7xx nm	1W	SR1502002B	CAT-05-001G
	8xx nm	1W	SR2202017B	CAT-05-001G
	9xx nm	1W	CAT-05-006I	CAT-05-002H
	10xx nm	300mW	CAT-09-026C CAT-011-003B	CAT-07-003C
		1W	CAT-05-064D SR2401051D	CAT-05-063C SR2406027A
		10W	SR2401051D	SR2406027A
		50W	SR2403056A	SR2405001A
		100W	SR2403056A	SR2405001A
		500W	SR2405036A	SR2406043A
		1000W		SE2312011B
	15xx nm	1W	CAT-05-008E	CAT-05-004G
		10W	CAT-05-008E	CAT-05-004G
	19xx nm	1W	CAT-10-013D	CAT-05-057C
		10W	CAT-10-018C	CAT-05-057C
	20xx nm	1W	CAT-10-013D	CAT-05-057C
		10W	CAT-10-018C	CAT-05-057C
Collimated Beam Output Isolator (HPICI)	10xx nm	5W	SR2311093A	SR1505002C
		20W	SR2311031A	SR2208010C
		50W	SR2304019A	
		100W	SR2208063B	
		250W	SR2412068A	
		500W	SR2311054A	SR2406046A
		1000W		SR2405032A
		10W	SR2311093A	SR1505002C
		20W		SR2208009C
		20W (Dual Stage)	SR2209005A	SR1406007B
		200W		SR2405009A
		250W		SR2303001E
		350W		SR2406045A
		500W	SR2311054A	SR2406046A
		1000W		SR2405032A
Free Space Isolator	4xx nm	500mW	SR2308074A	
	7xx nm	100mW	SR2407040A	

(HPFSI/FSI)	10xx nm	10W	SR2407012A	
		300W	SR2207036A	
		500W	SR2304040A	
	15xx nm	500mW	CAT-07-001G	
	19xx~20xx nm	500mW	CAT-10-017C	
Faraday Rotator (HPFR/FR)	4xx ~11xx nm	100mW		
		500mW		
		10W	SR2401034A	
		150W	SR2201014A	
		500W	SR2404056A	

Fiber Optical Cable			
Product	Wavelength	Power	Spec No.
Air-cooled Fiber Endcap (AFE)	4xx nm	100W	SR1811035C
	5xx nm	100W	SR1811035C
	9xx nm	500W	SR1811035C
	10xx nm	500W	SR1811035C
	15xx nm	100W	SR1811035C
	19xx nm	500W	SR2310010A
	20xx nm	500W	SR2310010A
Fiber Optical Cable (Indirectly Water-cooling) (Kilowatt Level) (QBH)	4xx nm	500W	SR2105026A
	5xx nm	500W	SR2204021A
	9xx nm	500W	SR2204021A
	10xx nm	2000W	SR2204021A
		4000W	SR2208019A
		6000W	SR2011013B
	19xx nm	1000W	SR2501002A
	20xx nm	1000W	SR2501002A
Fiber Optical Cable (Indirectly Water-cooling) (10 Kilowatt Level) (QD)	10xx nm	20000W	CAT-05-081B
Fiber Optical Cable (Indirectly Water-cooling) (10 Kilowatt Level) (Q+)	10xx nm	40000W	CAT-05-090A
Ultrafast Laser Cable Connector (ULC)	5xx nm	100W	SE2407005A
	10xx nm	200W	SR2006006C

Large Beam Collimator (QCS)	9xx nm	100W	SR2307010A
	10xx nm	5~100W	SR2209049A SR2305087A
		300W	
		500W	SR2106040C
		600W	SR2401042A
		700W	SR2310030C
		1000W	SR2408038A
		3000W	SR2201010B
	19xx nm	50W	SR2003008A
High Power Polarization Maintaining Fiber Collimator (HPMC)	20xx nm	200W	SR2403016A
	10xx nm	50W	SR2002012A
		200W	SR2011016E

Optical Coupler				
Product	Wavelength	Power	PM Spec NO.	Non-PM Spec NO.
Single Mode Filter Coupler (FC/PMFC)	5xx nm	300mW		
	6xx nm	300mW		
	7xx nm	300mW		SR1407001C
	8xx nm	300mW		SR1407001C
	9xx nm	300mW		CAT-10-028B
	10xx nm	500mW	CAT-09-017C CAT-09-018D	CAT-10-028B
		5W	CAT-05-045D	CAT-10-028B
		10W	CAT-05-045D	
	15xx nm	500mW	CAT-09-019C	CAT-10-028B
		5W	CAT-05-046C	CAT-10-028B
		10W	CAT-05-046C	
	19xx nm	500mW	CAT-05-059B	CAT-10-028B
		5W	CAT-05-059B	CAT-10-028B
		10W	CAT-05-059B	CAT-10-028B
	20xx nm	500mW	CAT-10-015C	
		5W	CAT-05-059B	
		10W	CAT-05-059B	
Single Mode Standard Coupler (SMC/PMSMC)	4xx nm	100mW	SR2411043A	SR1809010B
	5xx nm	200mW	SR2411043A	SR1809010B
	6xx nm	300mW	SR2109020A	SR2402018A

				SR1809012A
	7xx nm	300mW	SR2202013A	SR2310034A
	8xx nm	300mW	SR2202013A	SR2310034A
	9xx nm	300mW	CAT-03-021C	CAT-03-012C
	10xx nm	500mW	CAT-03-021C	CAT-03-012C
		20W	CAT-03-015C	CAT-03-016B
		50W	CAT-03-015C	CAT-03-016B
	15xx nm	500mW	CAT-03-021C	CAT-03-005F
		20W	CAT-03-015C	CAT-03-016B
		50W	CAT-03-015C	CAT-03-016B
	19xx nm	500mW	CAT-03-021C	CAT-03-005F
		20W	CAT-03-015C	CAT-03-016B
		50W	CAT-03-015C	CAT-03-016B
	20xx nm	500mW	CAT-03-021C	CAT-03-005F
		20W	CAT-03-015C	CAT-03-016B
		50W	CAT-03-015C	CAT-03-016B
Multi-Mode Standard Coupler (MMSMC)	8xx nm	300mW~ 30W		CAT-03-014B
	9xx nm	300mW~ 30W		CAT-03-014B
	9xx nm	300mW~ 30W		CAT-03-014B
	10xx nm	300mW~ 30W		CAT-03-014B
	14xx nm	300mW~ 30W		CAT-03-014B

WDM/BPF					
Product	Wavelength	Power	Bandwidth	PM Spec NO.	Non-PM Spec NO.
Filter WDM (FWDM)	980/1550nm	300mW	Customized	CAT-09-032D	CAT-04-010D
		10W	Customized	CAT-05-048C	CAT-05-041C CAT-05-043C
	976/1064nm	300mW	Customized	CAT-11-001B CAT-05-049C	CAT-04-012C
		10W	Customized	CAT-11-001B CAT-05-049C	CAT-05-042C
	1310/1550nm	300mW	Customized	CAT-09-024D	CAT-04-010D
		10W	Customized	CAT-05-047C	CAT-05-041C CAT-05-043C

	1480/1550nm	300mW	Customized	CAT-09-024D	CAT-04-010D
		10W	Customized	CAT-05-047C	CAT-05-041C CAT-05-043C
	1510/1550nm	300mW	Customized /0.22nm/0.5nm	CAT-09-024D	CAT-04-010D
		10W	Customized	CAT-05-047C	CAT-05-041C CAT-05-043C
	1570/2000nm	300mW	Customized /0.22nm/0.5nm	CAT-10-016E	CAT-10-012D
		10W	Customized	CAT-05-060C	CAT-05-056C
Fused WDM (WDM)	980/1550nm	300mW	±15		CAT-03-008F
		10W	±15		CAT-03-008F
	976/1064nm	300mW	±5		CAT-03-010D
		10W	±5		CAT-03-010D
	1310/1550nm	300mW	±15		CAT-03-007E
		10W	±15		CAT-03-007E
	1480/1550nm	300mW	±5		CAT-03-013C
		10W	±5		CAT-03-013C
Band Pass Filter (BPF)	980nm	300mW	Customized	SR0712014D (Pump) SR2305042A(Band pass)	SR2303059B
		10W	Customized		SR2306105A (Pump)
	1030~1064nm	300mW	Customized	SR2301721A	SR1409012B
		10W	Customized	SR2401054A	SR2307043A
	1550nm	300mW	Customized	SR0902011C	SR0803010B
		10W	Customized	SR2305028A	SR2306113A

Optical Circulator				
Product	Wavelength	Power	PM Spec NO.	Non-PM Spec NO.
Optical Circulator (FCIR)	7xx nm	300mW	SR1905009B	
	8xx nm	300mW	SR2107003B	CAT-05-076B
	10xx nm	300mW	CAT-09-013D CAT-09-012D	CAT-02-003F
		300mW	SR2309018A	SR2502003A
		300mW	SR2409011B	
		10W	SR2309018A	SR2502003A
		50W	SR2309018A	SR2502003A

	15xx nm	500mW	CAT-09-015E CAT-09-014D	CAT-02-002E
		10W	SR2302514A	SR2302501A
	19xx nm	300mW	CAT-10-020C	SR1812009B
		10W	CAT-05-067C	SR1812009B
	20xx nm	300mW	CAT-10-020C CAT-10-034B	SR1812009B
		10W	CAT-05-067C	SR1812009B

Optical Collimator						
Product	Wavelength	Power	Lens Diameter	Operation Distance	PM Spec NO.	Non-PM Spec NO.
Optical Collimator (C)	9xx nm	300mW	1.8mm	0~300mm	CAT-10-002C	CAT-10-001C
		10W	1.8mm	0~300mm	CAT-05-014E	CAT-05-013D
	10xx nm	300mW	1.8mm	0~300mm	CAT-10-002C	CAT-10-001C
		10W	1.8mm	0~300mm	CAT-05-014E	CAT-05-013D
	15xx nm	300mW	1.8mm	0~300mm	CAT-09-011C	CAT-10-002C
		10W	1.8mm	0~300mm	SR2108006B	CAT-05-018C
	19xx nm	300mW	1.8mm	0~300mm	SR1801011A	SR2412072A
		10W	1.8mm	0~300mm	SR1310002B	SR2208016A
	20xx nm	300mW	1.8mm	0~300mm	SR1801011A	SR2412072A
		10W	1.8mm	0~300mm	SR1310002B	SR2208016A

In-line Polarizer			
Product	Wavelength	Power	Spec No.
In-line Polarizer (ILP)	8xx nm	300mW	CAT-09-035D
	10xx nm	300mW	CAT-09-002D
		10W	SR0806012D
	15xx nm	300mW	CAT-09-003E
		10W	CAT-05-015D
	19xx nm	300mW	CAT-10-019C
		10W	SR2305031A

Hybrid Component			
Product	Wavelength	Power	Spec No.
Isolator Hybrid With Polarization Beam Splitter/Combiner (Isolator+PBSC)	10xx nm	300mW	CAT-09-004C SR2405019B
		10W	SR2311086A
	15xx nm	300mW	CAT-09-005C
		10W	CAT-05-051C
	19xx nm	300mW	CAT-09-005C
		10W	CAT-05-051C
Isolator Hybrid With Tap (Isolator+TAP)	10xx nm	300mW	CAT-11-008B SR2405019B
		10W	SR2311086A
	15xx nm	300mW	CAT-09-030C
		10W	CAT-05-054C
	19xx nm	300mW	CAT-09-030C
		10W	CAT-05-054C
Isolator Hybrid With WDM (Isolator+WDM)	10xx nm	300mW	SR1008020B
		10W	SR2311069A
	15xx nm	300mW	CAT-09-028F
		10W	CAT-05-050D
	19xx nm	300mW	
		10W	
Isolator Hybrid With Band Pass Filter (Isolator+BPF)	10xx nm	300mW	SR2307100A
		10W	SR2407025A
	15xx nm	300mW	SR2409013A
		10W	SR2408020A
	19xx nm	300mW	
		10W	
Isolator Hybrid With Tap and WDM (Isolator+TAP+WDM)	10xxnm	300mW	SR2312026A
	15xxnm	300mW	CAT-09-031F
		10W	SR2301703B
	19xxnm	300mW	SR1708030B
		10W	SR1708030B

PBCS			
Product	Wavelength	Power	Spec No.
Polarization Beam Splitter	10xx nm	300mW	CAT-09-007D
		10W	CAT-05-052C
	15xx nm	300mW	CAT-09-009D
		10W	CAT-05-053C
	19xx nm	300mW	CAT-10-014D
		10W	CAT-05-055C
Polarization Beam Combiner	10xx nm	300mW	CAT-09-007D
		10W	CAT-05-052C
	15xx nm	300mW	CAT-09-009D
		10W	CAT-05-053C
	19xx nm	300mW	CAT-10-014D
		10W	CAT-05-055C

VOA				
Product	Wavelength	Power	PM Spec NO.	Non-PM Spec NO.
Variable Optical Attenuator (VOA)	10xx nm	300mW	CAT-09-045D	CAT-10-026D
		1W	CAT-09-045D	CAT-10-026D
	15xx nm	300mW	CAT-09-045D	CAT-10-026D
		1W	CAT-09-045D	CAT-10-026D
	19xx nm	300mW	CAT-09-045D	CAT-10-026D
		1W	CAT-09-045D	CAT-10-026D

Faraday Rotator				
Product	Wavelength	Power	PM Spec NO.	Non-PM Spec NO.
Faraday Mirror (FM)	10xx nm	300mW	CAT-09-022B	CAT-10-003B
	15xx nm	300mW	CAT-09-023B	CAT-10-004B
Optical Fiber Mirror (OFM)	10xx nm	300mW	CAT-09-034B	CAT-10-005B
	15xx nm	300mW	CAT-09-033B	CAT-10-006B

Patchcord					
Product	Wavelength	Power	Connector	PM Spec NO.	Non-PM Spec NO.
Single Mode Patchcord	10xx nm	300mW	FC/UPC, FC/APC, SC/UPC, SC/APC, LC/UPC, LC/APC	CAT-09-029D	CAT-10-007C
	15xx nm	300mW	FC/UPC, FC/APC, SC/UPC, SC/APC, LC/UPC, LC/APC	CAT-09-029D	CAT-10-007C
Multi-mode Patchcord	9xx nm	300mW	FC/UPC, FC/APC, SC/UPC, SC/APC, LC/UPC, LC/APC	CAT-09-029D	CAT-10-007C
	10xx nm	300mW	FC/UPC, FC/APC, SC/UPC, SC/APC, LC/UPC, LC/APC	CAT-09-029D	CAT-10-007C
	15xx nm	300mW	FC/UPC, FC/APC, SC/UPC, SC/APC, LC/UPC, LC/APC	CAT-09-029D	CAT-10-007C
PM Patchcord	9xx nm	300mW	FC/UPC, FC/APC, SC/UPC, SC/APC, LC/UPC, LC/APC	CAT-09-029D	CAT-10-007C
	10xx nm	300mW	FC/UPC, FC/APC, SC/UPC, SC/APC, LC/UPC, LC/APC	CAT-09-029D	CAT-10-007C
	15xx nm	300mW	FC/UPC, FC/APC, SC/UPC, SC/APC, LC/UPC, LC/APC	CAT-09-029D	CAT-10-007C

Delay Line					
Product	Wavelength	Power	Delay Range	Movement Distance	Spec No.
Variable Optical Delay Line (VDL)	10xx nm	300mW~5W	300ps/530ps	4cm/8cm	CAT-10-031B
	15xx nm	300mW~5W	300ps/530ps	4cm/8cm	CAT-10-031B
Variable Optical Delay Line (VDL)	10xx nm	300mW~5W	300ps/530ps	4cm	CAT-10-031B
	15xx nm	300mW~5W	300ps/530ps	4cm	CAT-10-031B

Optical Module			
Product	Wavelength	Power	Spec No.
Quantum Key Distribution Module(QKD)	8xx nm	300mW	SE1906001D
	15xx nm	500mW	SR2312009A
Filter Coupler Module (FCM)	8xx nm	300mW	SR1707005B
		10W	SR1707005B
	10xx nm	500mW	CAT-09-020B
		10W	CAT-09-020C
	15xx nm	500mW	SR2302521A (SM) SR2209066B (PM)
		500mW	CAT-09-021C
		10W	CAT-09-021C

Pump Combiner								
Product	Type	Power/ Port	Pump Wavelength	Signal Wavelength	Pump Fiber	Input Fiber	Output Fiber	Spec No.
1μm PM Combiner (PMMP)	(1+1)x1	10W	9xx nm	10xx nm	105/125 0.22	PM-GDF-5/130	PM-GDF-5/130	SR2310052A
	(2+1)x1	30W	9xx nm	10xx nm	105/125 0.22	PLMA-GDF-10/125-M	PLMA-GDF-10/125-M	SR2205021A
	(2+1)x1	70W	9xx nm	10xx nm	105/125 0.22	PLMA-GDF-10/125-M	PLMA-GDF-25/250-M	SR2501036A
	(6+1)x1	50W	9xx nm	10xx nm	105/125 0.22	PLMA-GDF-15/130 NA0.08	PLMA-GDF-15/130 NA0.08	SR2306054A
	(6+1)x1	70W	9xx nm	10xx nm	105/125 0.22	PLMA-GDF-10/125-M	PLMA-GDF-25/250	SR2303048A
	(6+1)x1	240W	9xx nm	10xx nm	135/155 0.22	PLMA-GDF-20/400-M	PLMA-GDF-20/400-M	SR2303041B
1.5μm PM Combiner (PMMP)	(1+1)x1	10W	9xx nm	15xx nm	105/125 0.22	Fujikura-SM15-PS-U25D	NUFERN PM-GDF-1550	SR2209058B
	(2+1)x1	50W	9xx nm	15xx nm	105/125 0.22	NUFERN PM-GDF-1550	NUFERN PM-GDF-1550	SR2503023A
	(6+1)x1	30W	9xx nm	15xx nm	105/125 0.22	NUFERN PM-GDF-1550	NUFERN PM-GDF-1550	SR2502048A
2.0μm PM Combiner (PMMP)	(1+1)x1	10W	7xx nm	19xx~20xx nm	105/125 0.22	PM1950	PM-GDF-10/130-2000-M	SR2408017A
	(2+1)x1	30W	7xx nm	19xx~20xx nm	105/125 0.22	PM-GDF-10/130-2000-M	PM-GDF-10/130-2000-M	SR2405011A
	(6+1)x1	30W	7xx nm	19xx~20xx nm	105/125 0.22	PM-GDF-10/130-2000-M	PM-GDF-10/130-2000-M	SR2305051A
Multi-mode Pump Combiner (MMP)	3x1	100W	4xx~9xx nm		135/135 0.22		220/242 0.22	SR2210021A
	7x1	100W	4xx~9xx nm		105/125 0.22		220/242 0.22	SR2211009A
	7x1	400W	4xx~9xx nm		200/220 0.22		600/660 0.22	

High Power Polarization Maintaining Isolator 5xxnm 1W

Spec Review No.: SR2003002A

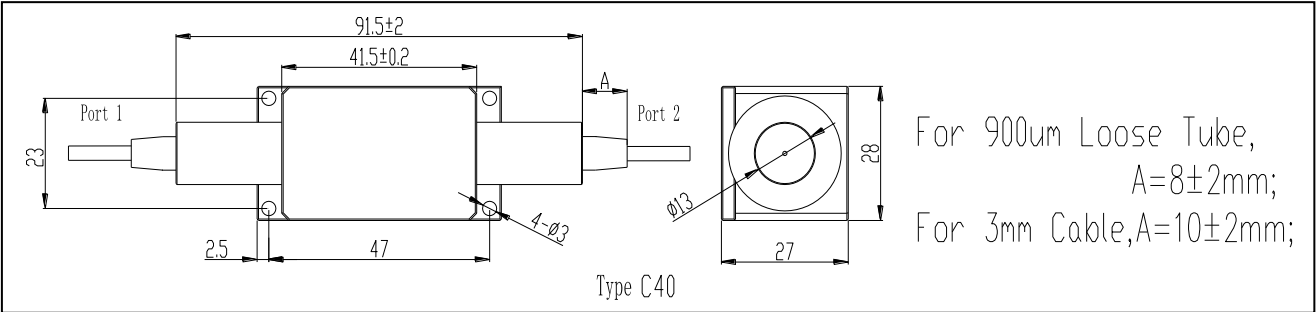
Date: Mar. 03, 2020

Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	518 or Specify
Operating Wavelength Range	nm	± 5
Typ. Peak Isolation	dB	30~35
Min. Isolation at 23℃	dB	25
Typ. Insertion Loss at 23℃	dB	1.5
Max. Insertion Loss at 23℃	dB	1.8
Min. Return Loss (Input/Output)	dB	50/50
Min. Extinction Ratio	dB	18 (only for B-Type), 20 (only for F-Type)
Polarization Dependent Loss	dB	Max. 0.15(only for B-Type), Min. 20 (only for F-Type)
Max. Optical Power (CW)	mW	300 or Specify
Max. Tensile Load	N	5
Fiber Type	-	PM460 Panda Fiber
Operating Temperature (Non-Condense)	℃	0 to +70
Storage Temperature (Non-Condense)	℃	-20 to +85

- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 1.5dB higher, RL will be 5dB lower,ER will be 2dB lower
- *For F type, fast axis is blocked, the input must be Linear polarized light, and the input polarization must be aligned properly.
- *The actual package dimensions may be slightly different from that shown in below drawing, for accurate dimensions please contact Optizone.
- *The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMI-①①-②②-③③-④-⑤⑤-⑥⑥-⑦

- | | | |
|--|---|--|
| ①①: Wavelength
51 - 518nm
SS - Specify | ④: Axis Alignment
B - Both Axis Working
F - Fast Axis Blocked | ⑥⑥: Fiber Jacket on Port 1 & 2
B - Bare Fiber
L - 900um Loose Tube
C - 3mm Loose Cable
S - Specify |
| ②②: Package Type
C40 - Type C40 | ⑤⑤: Connector Type on Port 1 & 2
1 - FC/UPC
2 - FC/APC
3 - SC/UPC
4 - SC/APC
N - None
S - Specify | ⑦: Fiber Length
1 - 1.0m
S - Specify |

High Power Polarization Maintaining Isolator 6xxnm 1W

Spec Review No.: SR2410014A

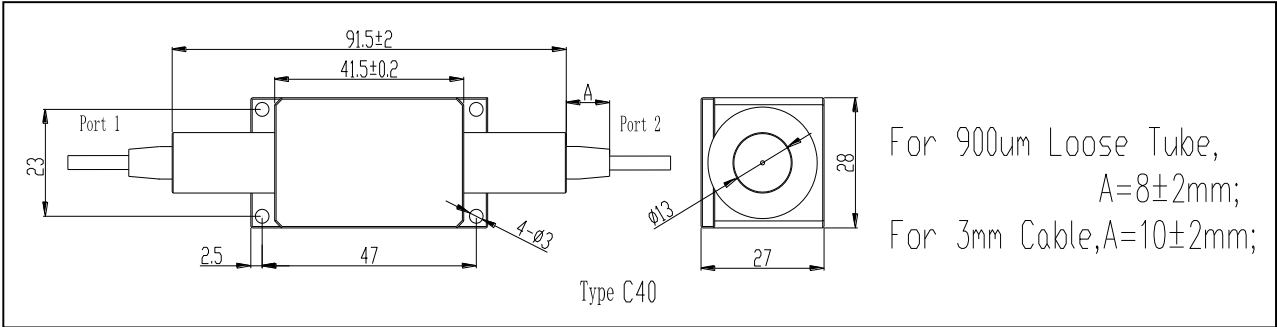
Date: Oct. 15, 2024

Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	610,630,650,670,690 or Specify
Operating Wavelength Range	nm	± 10
Typ. Peak Isolation at $\lambda_c, 23^\circ\text{C}$	dB	28
Min. Isolation at $\lambda_c, 23^\circ\text{C}$	dB	22
Typ. Insertion Loss at $\lambda_c, 23^\circ\text{C}$	dB	1.3
Max. Insertion Loss at $\lambda_c, 23^\circ\text{C}$	dB	1.8
Min. Return Loss	dB	50
Min. ER at 23°C	dB	20
Max. Average Power @ Proper SOP	W	0.3 or Specify
Max. Tensile Load	N	5
Operating Temperature	$^\circ\text{C}$	10 to +50
Storage Temperature	$^\circ\text{C}$	0 to +75

- *Above parameter only for inner core.
- * Above specifications are for device without connector.
- * For devices with connectors, IL will be 1dB higher, RL will be 5dB lower, ER will be 2dB lower & handling power will be only 1W(CW)
- * The PM fiber and connector key are aligned to the slow axis.
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMI-①①-②-③③-④-⑤-⑥-⑦-⑧

- | | | |
|-----------------------|---------------------------|-----------------------------|
| ①①: Center Wavelength | ④: Axis Alignment | ⑦: Fiber Length |
| 61 - 610nm | F - Fast Axis Blocked | 0.6 - 0.6m |
| 63 - 630nm | | S - Specify |
| 65 - 650nm | ⑤: Connector Type | |
| 67 - 670nm | 1A - FC/UPC | ⑧: Fiber Type |
| 69 - 690nm | 2A - FC/APC(Step) | 74 - Nufern PM 780-HP Fiber |
| S - Specify | N - None | 75 - Nufern PM460 Fiber |
| | S - Specify | 88 - PM 630-HP Fiber |
| | | S - Specify |
| ②: Package Type | ⑥: Fiber Jacket | |
| C40 - Type C40 | B - Bare Fiber | |
| | C - 900um Loose Tube(Red) | |
| ③③: Handling Power | S - Specify | |
| 0.3 - 0.3W | | |
| S - Specify | | |

High Power Polarization Insensitive Isolator 6xxnm 1W

Spec Review No.: SR1709008B

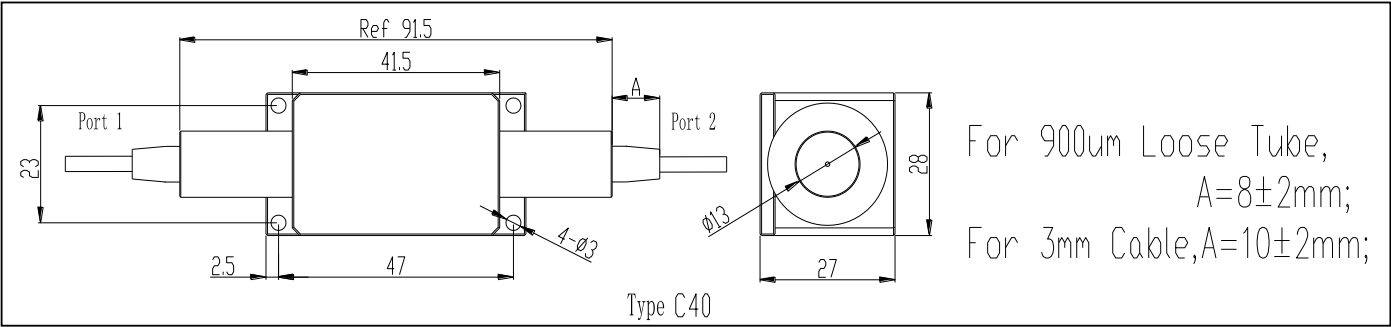
Date:Nov.05, 2024

Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	633 or Specify
Operating Wavelength Range	nm	± 10
Min. Isolation at $\lambda_c, 23^{\circ}\text{C}$	dB	22
Typ. Insertion Loss at $\lambda_c, 23^{\circ}\text{C}$	dB	0.9
Max. Insertion Loss at $\lambda_c, 23^{\circ}\text{C}$	dB	1.3
Min. Return Loss , 23°C	dB	50/50
Max. Polarization Dependent Loss	dB	0.15
Max. Optical Average Power	W	0.5 or Specify
Max. Tensile Load	N	5
Operating Temperature	$^{\circ}\text{C}$	10 to +50
Storage Temperature	$^{\circ}\text{C}$	0 to +75

- * Above specifications are for device without connector.
- *For devices with connectors, IL will be 1.2dB higher, RL will be 5dB lower, handling power will be only 1W(CW).
- *The material must be RoSH compliant.

Package Dimensions



Ordering Information

HP11-①①-②-③③-④-⑤-⑥-⑦

- | | | |
|--|--|---|
| ①①: Center Wavelength
63 - 633nm
S - Specify | ④: Connector Type
N - None
S - Specify | ⑥: Fiber Length
1 - 1m
S - Specify |
| ②: Package Type
C40 - Type C40 | ⑤: Fiber Jacket
B - Bare Fiber
F - 900um Loose Tube
S - Specify | ⑦: Fiber Type
38 - HI780 Fiber
100 - Nufern 630-HP Fiber
S - Specify |

High Power Polarization Maintaining Isolator 7xxnm 1W

Spec Review No.: SR1502002B

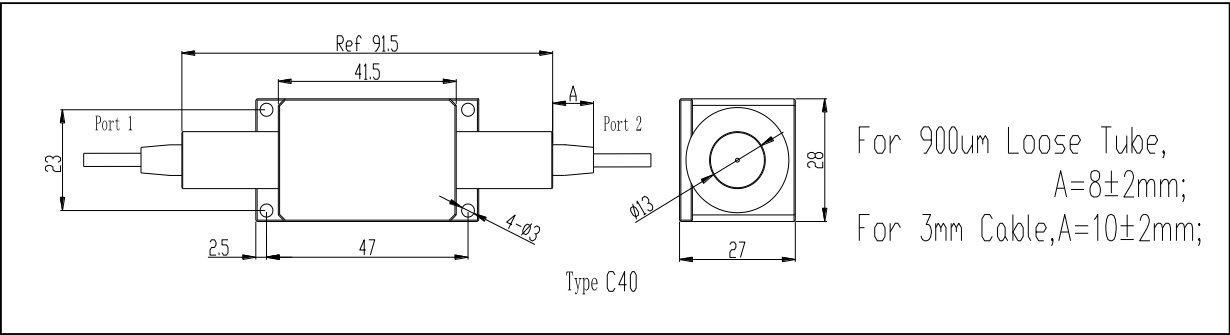
Date: Feb. 10 2023

Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	780
Operating Wavelength Range	nm	± 5
Typ. Peak Isolation	dB	30-35
Min. Isolation at 23°C	dB	25
Typ. Insertion Loss at 23°C	dB	0.6
Max. Insertion Loss at 23°C	dB	1.0
Min. Return Loss (input/output)	dB	50/50
Min. Extinction Ratio (only for B Type)	dB	20
Min. Extinction Ratio (only for F Type)	dB	22
Max. Optical Power (CW)	mW	300 or specify
Max. Tensile Load	N	5
Operating Temperature	°C	-5 to +50
Storage Temperature	°C	-20 to +75

- * Above specifications are for device without connector.
- * For devices with connectors, IL will be 1dB higher, RL will be 5dB lower, ER will be 2dB lower & handling power will be only 1W(CW)
- * The PM fiber and connector key are aligned to the slow axis.
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMI-①①-②-③③-④-⑤⑤-⑥⑥-⑦⑦

- | | | |
|---|---|--|
| ①①: Wavelength
78 - 780nm
SS - Specify | ④: Axis Alignment
F - Fast Axis Blocked
B - Both Axis Working | ⑥⑥: Fiber Jacket on Port 1 & 2
B - Baer Fiber
C - 900um Loose Tube(Red)
S - Specify |
| ②: Package Type
C40 - Type C40 | ⑤⑤: Connector Type on Port 1 & 2
1A - FC/UPC
2A - FC/APC(Step)
3A - SC/UPC
4A - SC/APC(Step)
5A - FC/APC(Cone)
N - None | ⑦⑦: Fiber Length
1 - 1.0m
S - Specify |
| ③③: Handling Power
0.3 - 300mW
SS - Specify | | ⑧: Fiber Type
20 - PM 850 panda Fiber |

High Power Polarization Insensitive Isolator 7xx~8xxnm 300mW

Spec No.: CAT-05-001G

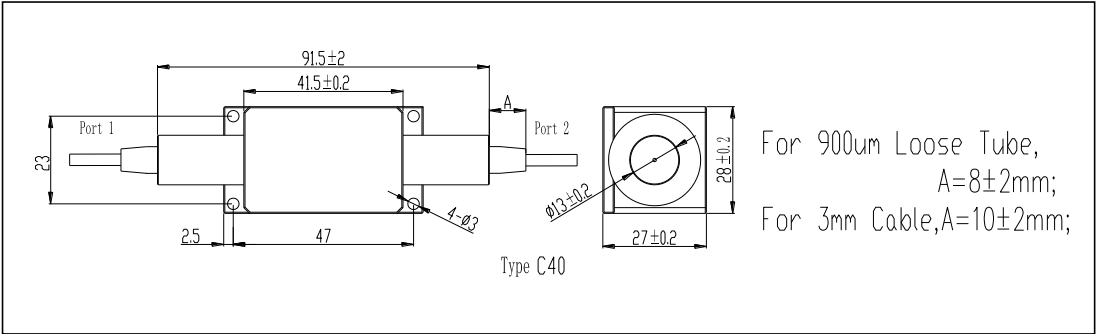
Date:

Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	785
Operating Wavelength Range	nm	± 10
Max. PDL at 23℃	dB	0.1
Typ. Peak Isolation	dB	32-40
Min. Isolation at 23℃	dB	25
Typ. Insertion Loss at 23℃	dB	0.6
Max. Insertion Loss at 23℃	dB	1.0
Min. Return Loss (Input/Output)	dB	50/50
Max. Optical Power (CW)	W	0.3
Max. Tensile Load	N	5
Fiber Type		HI 780 Fiber
Operating Temperature	℃	-5 to +50
Storage Temperature	℃	-20 to +75

- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 1dB higher, RL will be 5dB lower and handling power will be 1W CW or lower.
- *Package size indicated is for standard choose, if special size is required, please discuss with Optizone.
- *Please provide the details of pulse conditions including pulse width, repitition, peak power for inquiries if necessary.
- *The material must be RoSH compliant.

Package Dimensions



Ordering Information

HP11-①①-②③-④④-⑤⑤-⑥⑥-⑦⑦

- | | | |
|--|---|--|
| ①①: Wavelength
85 - 850nm
SS - Specify | ④④: Connector Type on Port 1 & 2
1A - FC/UPC
2A - FC/APC(Step)
3A - SC/UPC
4A - SC/APC(Step)
N - None
S - Specify | ⑥⑥: Fiber Length
1 - 1.0m
S - Specify |
| ②②: Package Type
C40 - Type C40 | ⑤⑤: Fiber Jacket on Port 1 & 2
B - Baer Fiber
F - 900um Loose Tube(White)
T - 3mm Cable(Yellow)
S - Specify | ⑦⑦: Fiber Length
38 - HI 780
S - Specify |
| ③③: Handling Power
0.3 - 300mW
0.5 - 500mW | | |

High Power Polarization Maintaining Broadband Isolator 8xxnm 1W

Spec Review No.: SR2202017B

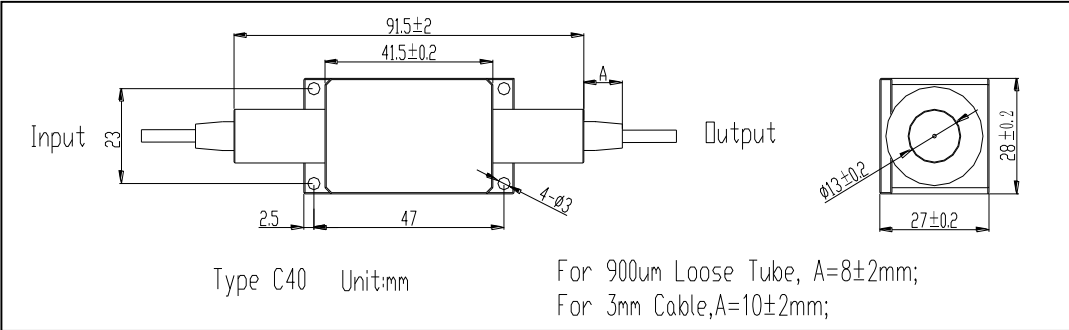
Date: May. 18, 2023

Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	850
Operating Wavelength Range	nm	± 50
Min. Extinction Ratio at $\lambda_c, 23^\circ\text{C}$	dB	20
Typ. Isolation at $\lambda_c, 23^\circ\text{C}$	dB	> 32
Min. Isolation at 23°C	dB	23
Typ. Insertion Loss at $\lambda_c, 23^\circ\text{C}$	dB	1.0
Max. Insertion Loss at $\lambda_c \pm 30\text{nm}, 23^\circ\text{C}$	dB	1.3
Max. Insertion Loss at $\lambda_c \pm 40\text{nm}, 23^\circ\text{C}$	dB	1.7
Max. Insertion Loss at $\lambda_c \pm 50\text{nm}, 23^\circ\text{C}$	dB	2.0
Min. Return Loss	dB	50
Max. Optical Power (CW)	W	0.3 or Specify
Max. Tensile Load	N	5
Operating Temperature	$^\circ\text{C}$	0 to 60
Storage Temperature	$^\circ\text{C}$	-20 to 75

- * Above specifications are for device without connector.
- * For devices with connectors, IL will be 1dB higher, RL will be 5dB lower, ER will be 2dB lower & handling power will be only 1W(CW)
- * The PM fiber and the connector key are aligned to the slow axis.
- * If reverse power exceeds 10% of the forward power, please discuss with Optizone.
- * The isolation is tested at OSA settings: RES:0.05nm, SENS:HIGH3, SMPL:8000(MANU).
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMBI-①①-②②-③③-④④-⑤⑤-⑥⑥-⑦⑦-⑧⑧

- | | | |
|--|---|---|
| ①①: Wavelength
85 - 850nm
SS - Specify | ④④: Axis Alignment
F - Fast Axis Blocked | ⑥⑥: Fiber Jacket
B - Baer Fiber
C - 900um Loose Tube (Red)
S - Specify |
| ②②: Package Type
C40 - Type C40 | ⑤⑤: Connector Type
1A - FC/UPC
2A - FC/APC (Step)
3A - SC/UPC
4A - SC/APC | ⑦⑦: Fiber Length
1.1 - 1.1m |
| ③③: Handling Power
0.3 - 300mW
S - Specify | N - None
S - Specify | ⑧⑧: Fiber Type
20 - PM 850 panda Fiber |

High Power Polarization Maintaining Isolator 9xxnm 1W

Spec No.: CAT-05-006I

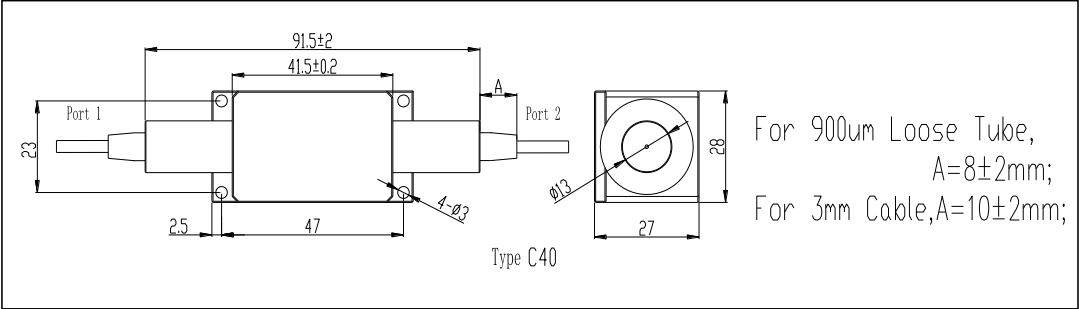
Date:

Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	980 or Specify
Operating Wavelength Range	nm	± 10 or Specify
Min. Extinction Ratio (only for B Type)	dB	20
Min. Extinction Ratio (only for F Type)	dB	22
Typ. Peak Isolation	dB	32-40
Min. Isolation at 23℃	dB	25
Typ. Insertion Loss at 23℃	dB	0.6
Max. Insertion Loss at 23℃	dB	1.0
Min. Return Loss (Input/Output)	dB	50/50
Max. Optical Power (CW)	W	1 , 2 ,3 or Specify
Max. Tensile Load	N	5
Operating Temperature	℃	-5 to+50
Storage Temperature	℃	-20 to+75

- * Above specifications are for device without connector.
- * For devices with connectors, IL will be 1dB higher, RL will be 5dB lower,ER will be 2dB lower & handling power will be only 1W(CW)
- * The PM fiber and connector key are aligned to the slow axis.
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMI-①①-②-③③-④④-⑤⑤-⑥⑥-⑦-⑧⑧

- ①①: Wavelength
98 - 980nm
SS - Specify

②: Package Type
C40 - Type C40

③③: Handling Power
01 - 1W
02 - 2W
03 - 3W
- ④④: Axis Alignment
F - Fast Axis Blocked
B - Both Axis Working

⑤⑤: Connector Type on Port 1 & 2
1A - FC/UPC
2A - FC/APC(Step)
3A - SC/UPC
4A - SC/APC(Step)
N - None
S - Specify
- ⑥⑥: Fiber Type on Port 1 & 2
B - Baer Fiber
C - 900um Loose Tube(Red)
S - Specify

⑦: Fiber Length on Port 1 & 2
1 - 1.0m
S - Specify

⑧⑧: Fiber Type
1 - PM980 Fiber

High Power Polarization Insensitive Isolator 9xxnm 1W

Spec No. CAT-05-002H

Date:

Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	980
Operating Wavelength Range	nm	± 10
Max. PDL	dB	0.1
Typ. Peak Isolation	dB	32-40
Min. Isolation at 23℃	dB	25
Typ. Insertion Loss at 23℃	dB	0.6
Max. Insertion Loss at 23℃	dB	1.0
Min. Return Loss (input/output)	dB	50/50
Max. Optical Power (CW)	W	1 , 2 ,3 or Specify
Max. Tensile Load	N	5
Operating Temperature	℃	-5 to +50
Storage Temperature	℃	-20 to+75

*Above specifications are for device without connector.

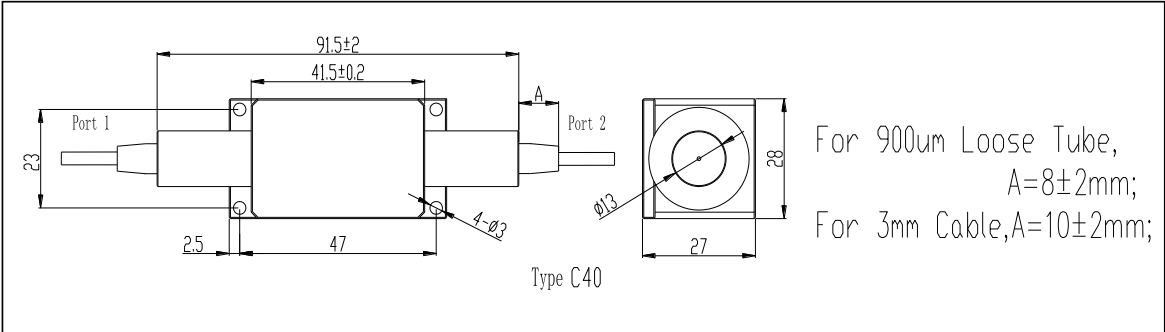
*For devices with connectors, IL will be 1dB higher, RL will be 5dB lower and handling power will be 1W CW or lower.

*Package size indicated is for standard choose, if special size is required, please discuss with Optizone.

*Please provide the details of pulse conditions including pulse width, repitition, peak power for inquiries if necessary.

*The material must be RoSH compliant.

Package Dimensions



Ordering Information

HP11-①①-②-③③-④④-⑤⑤-⑥-⑦⑦

①①: Wavelength
98 - 980nm
SS - Specify

②: Package Type
C40 - Type C40

③③:Handling Power
01 - 1W
02 - 2W
03 - 3W
S - Specify

④④: Connector Type on Port 1 & 2
1A - FC/UPC
2A - FC/APC(Step)
3A - SC/UPC
4A - SC/APC(Step)
N - None
S - Specify

⑤⑤: Fiber Type on Port 1 & 2
B - Baer Fiber
F - 900um Loose Tube(White)
T - 3mm Cable(Yellow)
S - Specify

⑥: Fiber Length on Port 1 & 2
1 - 1.0m
S - Specify

⑦⑦: Fiber Type
1 - HI 1060
2 - 10/125 N.A 0.08
35 - SCF-UN-10/125 NA0.08
72- LMA-GDF 10/125-M NA0.075
S - Specify

Polarization Maintaining Isolator 10xxnm 300mW

Spec No.: CAT-09-026C

Date:

Specifications

Parameters	Unit	Values			
Stage		Single Stage		Dual Stage	
Grade		Grade P	Grade A	Grade P	Grade A
Center Wavelength (λ_c)	nm	1064			
Typ. Peak Isolation	dB	40	38	55	52
Min. Isolation at 23°C	dB	35	32	45	42
Typ. Insertion Loss at 23°C	dB	1.5	1.6	2.4	2.6
Max. Insertion Loss at -5°C -50°C	dB	1.8	2.0	3.2	3.4
Min. Return Loss (Input/Output)	dB	55/50	55/50	55/50	55/50
Min. Extinction Ratio (only for B Type)	dB	20	18	20	18
Min. Extinction Ratio (only for F Type)	dB	23	23	23	23
Max. Optical Power (CW)	mW	300			
Max. Tensile Load	N	5			
Fiber Type		PM 980 Panda Fiber			
Operating Temperature	°C	-5 to +50			
Storage Temperature	°C	-40 to +85			

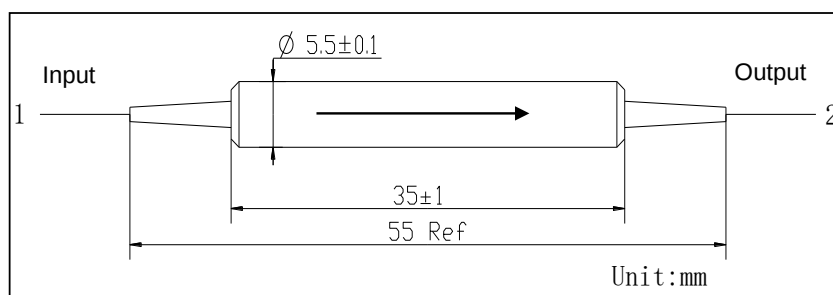
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower and ER will be 2dB lower.

*The PM fiber and the connector key are aligned to the slow axis.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

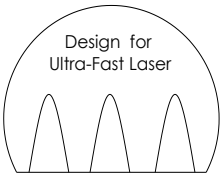
PMI-①-②-③-④-⑤⑤-⑥⑥-⑦-⑧-⑨⑨

①: Wavelength
1064 - 1064nm②: Grade
P - Premium Grade
A - A Grade③: Stage
S - Single Stage
D - Dual Stage④: Axis Alignment
F - Fast Axis Blocked
B - Both Axis Working⑤⑤: Connector Type on Port 1 & 2
1B - FC/UPC
2B - FC/APC (Step)
3D - SC/UPC
4D - SC/APC (Step)
N - None
S - Specify⑥⑥: Fiber Jacket on Port 1 & 2
B - Bare Fiber
C - 900um Red Loose Tube
S - Specify⑦: Fiber Type
1B - PM 980
S - Specify⑧: Fiber Length
0.8 - 0.8m
S - Specify⑨⑨: Package Type
01 - Ø5.5×35

Polarization Maintaining Isolator 10xxnm 300mW(For Ultrafast)

Spec No.: CAT-011-003B

Date:

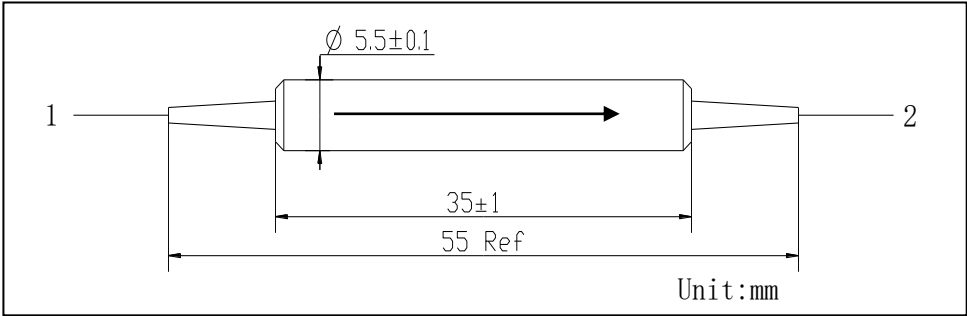


Specifications

Parameters	Unit	Values	
Stage		Single Stage	Dual Stage
Grade		Grade P	
Center Wavelength (λc)	nm	1064	
Typ. Peak Isolation	dB	40	55
Min. Isolation at 23℃	dB	35	45
Typ. Insertion Loss at 23℃	dB	1.5	2.4
Max. Insertion Loss at -5℃-50℃	dB	1.8	3.2
Min. Return Loss (Input/Output)	dB	55/50	55/50
Min. Extinction Ratio (only for B Type)	dB	20	20
Min. Extinction Ratio (only for F Type)	dB	23	23
Max. Average Optical Power (Proper SOP)	mw	300	
Max. Peak Power for ps Pulse (Proper SOP)	KW	0.5, 1 or Specify	
Max. Tensile Load	N	5	
Operating Temperature	℃	-5 to +50	
Storage Temperature	℃	-40 to +85	

- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower, ER will be 2dB lower and optical power is only 1W(CW).
- *The PM fiber and the connector key are aligned to the slow axis.
- *The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMI-UF-①-②-③-④④-⑤-⑥⑥-⑦⑦-⑧-⑨-⑩⑩

- ①: Wavelength
1064 - 1064nm

②: Grade
P - Premium Grade

③: Stage
S - Single Stage
D - Dual Stage

④④: Average /Peak Power
0.3/0.5 - 0.3W /0.5kW
S - Specify
- ⑤: Axis Alignment
F - Fast Axis Blocked
B - Both Axis Working

⑥⑥: Connector Type on Port 1 &2
1B - FC/UPC
2B - FC/APC (Step)
3D - SC/UPC
4D - SC/APC (Step)
N - None
S - Specify
- ⑦⑦: Fiber Jacket on Port 1 &2
B - Bare Fiber
C - 900um Red Loose Tube
S - Specify

⑧: Fiber Type
1B - PM 980
S - Specify
- ⑨: Fiber Length
0.8 - 0.8m
S - Specify

⑩⑩: Package Type
01 - Ø5.5×35

Polarization Insensitive Isolator 10xxnm 300mW

Spec No.: CAT-07-003C

Date:

Specifications

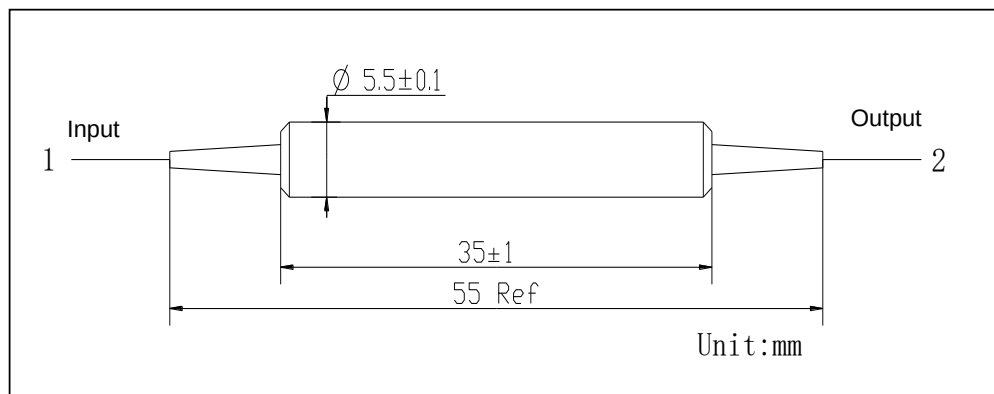
Parameters	Unit	Values			
Stage	-	Single Stage		Dual Stage	
Grade	-	Grade P	Grade A	Grade P	Grade A
Center Wavelength	nm	1064			
Operating Wavelength Range	nm	±5			
Typ. Peak Isolation	dB	40	38	55	52
Min. Isolation at 23°C	dB	30	28	45	42
Typ. Insertion Loss at 23°C	dB	1.4	1.5	2.3	2.5
Max. Insertion Loss at -5°C to 50°C	dB	1.8	2.0	3.2	3.4
Min. Return Loss (Input/Output)	dB	55/50	55/50	55/50	55/50
Max. PDL at 23°C	dB	0.15	0.15	0.15	0.15
Max. Optical Power (CW)	mW	300			
Max. Tensile Load	N	5			
Fiber Type	-	Hi 1060 Fiber			
Operating Temperature	°C	-5 to +50			
Storage Temperature	°C	-40 to +85			

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lower.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PII-①-②-③-④-⑤⑤-⑥⑥-⑦-⑧-⑨

①: Wavelength

1064 - 1064nm

S - Specify

②: Grade

P - Premium Grade

A - A Grade

③: Stage

S - Single Stage

D - Dual Stage

④: Handling Power

0.3 - 0.3W

⑤⑤: Connector Type on Port 1 & 2

1B - FC/UPC

2B - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify

⑥⑥: Fiber Jacket on Port 1 & 2

B - 250um Bare Fiber

F - 900um White Loose Tube

T - 3mm Yellow Cable

S - Specify

⑦: Fiber Type

6 - Hi 1060 Fiber

⑧: Fiber Length

1 - 1m

S - Specify

⑨: Package Type

01 - Ø5.5×35

High Power Polarization Maintaining Isolator 10xxnm 1W (Faraday Type)

Spec No.: CAT-05-064D

Date:

Specifications

Parameters	Unit	Values	
Isolator Type		A43	B43
Center Wavelength	nm	1064	
Operating Wavelength Range	nm	±5	
Typ. Peak Isolation	dB	35	
Min. Isolation at 23℃	dB	28	
Typ. Insertion Loss at 23℃	dB	1.6	1.7
Max. Insertion Loss at 23℃	dB	1.8	1.9
Max. Insertion Loss at 1064nm @ 1.0W , 23℃	dB	2.0	2.1
Max. Insertion Loss at 1064nm @ 1.5W , 23℃	dB	2.5	2.3
Max. Insertion Loss at 1064nm @ 2.0W , 23℃	dB	--	2.5
Min. Return Loss (Input/Output)	dB	50/50	
Min. ER at 23℃ (F-Type)	dB	22	
Min. ER at 23℃ (B-Type)	dB	20	
Max. Optical Average Power (CW)	W	1.0 or specify	2.0 or specify
Max. Peak Power for ns Pulse	kW	10 @ 1ns	
Max. Tensile Load	N	5	
Operating Temperature	℃	-5 to +50	
Storage Temperature	℃	-20 to +75	

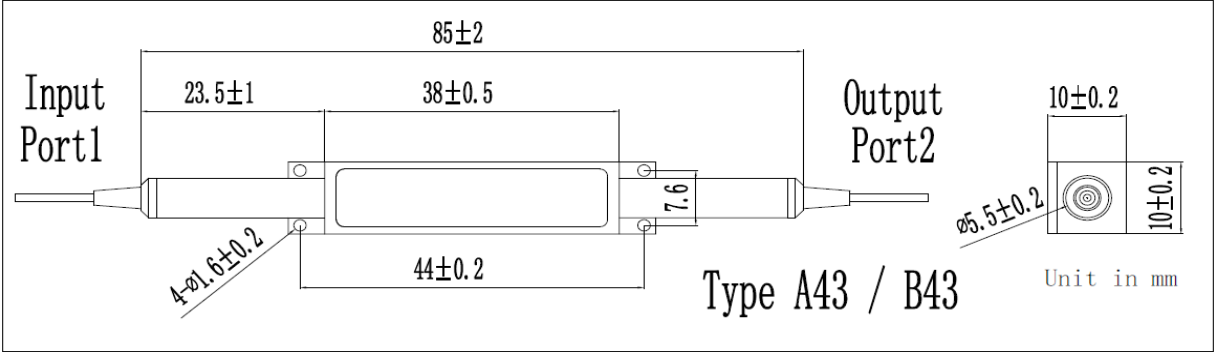
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower , ER will be 2dB lower and optical power is only 1W (CW) .

*The PM fiber and connector key are aligned to the slow axis.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMI-①①-②②②-③③-④-⑤⑤-⑥⑥-⑦-⑧⑧

- ①①: Wavelength
06 - 1064nm

②②②: Package Type
A43 - Type A43
B43 - Type B43

③③: Handling Power
01 - 1W
02 - 2W
- ④: Axis Alignment
F - Fast Axis Blocked
B - Both Axis Working

⑤⑤: Connector Type on Port 1 & 2
1A - FC/UPC
2A - FC/APC(Step)
3A - SC/UPC
4A - SC/APC(Step)
N - None
S - Specify
- ⑥⑥: Fiber Jacket on Port 1 & 2
B - 250um Bare Fiber
C - 900um Loose Tube(Red)
S - Specify

⑦: Fiber Length
1 - 1.0m
S - Specify

⑧⑧: Fiber Type
1 - PM980 Fiber
45 - PLMA-GDF 10/125 -M NAO.075

High Power Polarization Maintaining Isolator 10xxnm 1~10W (TGG Type)

Spec Review No.: SR2401051D

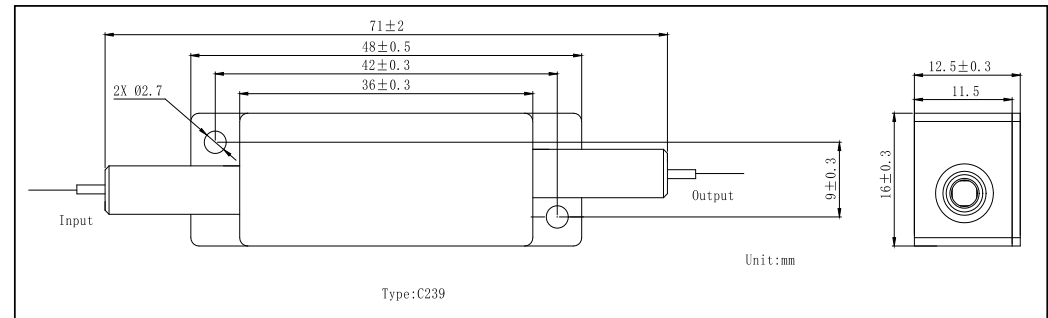
Date: Aug. 9, 2024

Specifications

Parameters	Unit	Values
Center Wavelength (λc)	nm	980,1030,1064 or Specify
Operating Wavelength Range	nm	±5
Typ. Peak Isolation at λc,23℃	dB	28~33
Min. Isolation at λc,23℃	dB	26
Typ. Insertion Loss at λc,23℃	dB	0.5
Max. Insertion Loss at λc,23℃	dB	0.8
Min. Return Loss at λc,23℃	dB	50
Min. ER at 23℃	dB	20
Max. Average Power @ Proper SOP	W	1.5 or Specify
Max. Peak Power for ns Pulse	kW	10@10ns
Max. Tensile Load	N	5
Operating Temperature	℃	10 to +50
Storage Temperature	℃	0 to +75

- *Above parameter only for inner core.
- * Above specifications are for device without connector.
- * For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower,ER will be 2dB lower & handling power will be only 1W(CW)
- * The PM fiber and connector key are aligned to the slow axis.
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMI-①①-②-③③-④-⑤-⑥-⑦-⑧

- | | | |
|---|--|---|
| ①①: Wavelength
98 - 980nm
03 - 1030nm
06 - 1064nm
S - Specify | ④: Axis Alignment
F - Fast Axis Blocked | ⑦: Fiber Length
0.6 - 0.6m
S - Specify |
| ②: Package Type
C239 - Type C239 | ⑤: Connector Type
N - None
S - Specify | ⑧: Fiber Type
1 - PM980 Fiber
45 - PLMA-GDF 10/125-M NA0.075 Fiber
65 - Nufern PM1060L 10/125 GSF NA0.085 Fiber
S - Specify |
| ③③: Handling Power
01 - 1W
05 - 5W | ⑥: Fiber Jacket
B - Bare Fiber
C - 900um Loose Tube
S - Specify | |

High Power Polarization Insensitive Isolator 10xxnm 1W (Faraday Type)

Spec No.: CAT-05-063C

Date:

Specifications

Isolator Type		A43	B43
Center Wavelength	nm	1064	
Typ. Peak Isolation	dB	35	
Min. Isolation at 23°C	dB	28	
Typ. Insertion Loss at 1064nm , 23°C	dB	1.4	1.4
Max. Insertion Loss at 1064nm , 23°C	dB	1.7	1.7
Max. Insertion Loss at 1064nm @ 1.0W , 23°C	dB	2.0	1.8
Max. Insertion Loss at 1064nm @ 1.5W , 23°C	dB	2.5	2.0
Max. Insertion Loss at 1064nm @ 2.0W , 23°C	dB	-	2.5
Min. Return Loss (Input/Output)	dB	50/50	
Max. Polarization Dependent Loss, 23°C	dB	0.15	
Max. Optical Power (CW)	W	1.0 or specify	2.0 or specify
Max. Peak Power	kW	10@1ns	
Max. Tensile Load	N	5	
Operating Temperature	°C	-5 to +50	
Storage Temperature	°C	-20 to +75	

*Above specifications are for device without connector.

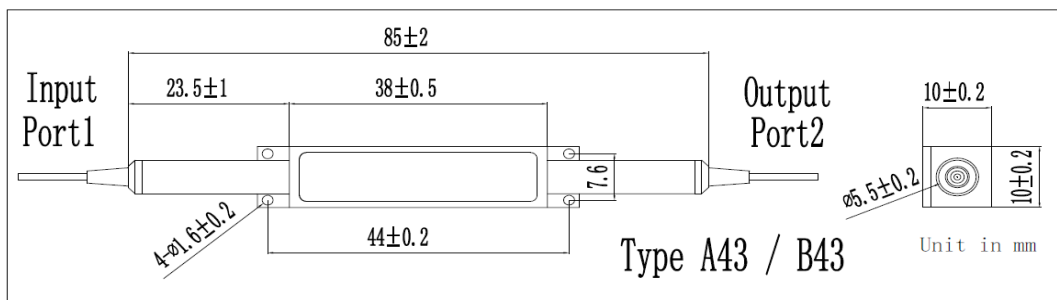
*For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower and handling power will be 1W CW or lower.

*Package size indicated is for standard choose, if special size is required, please discuss with Optizone.

*Please provide the details of pulse conditions including pulse width, repetition, peak power for inquiries if necessary.

*The material must be RoSH compliant.

Package Dimensions



Ordering Information

HP II-(1)(1)-(2)-(3)(3)-(4)(4)-(5)(5)-(6)-(7)/(7)

①①: Wavelength

06 - 1064nm

S - Specify

②: Type

A43 - Type A43

B43 - Type B43

③③: Handling Power

01 - 1W

02 - 2W

S - Specify

④④: Connector Type on Port 1 & 2

1A - FC/UPC

2A - FC/APC(Step)

3A - SC/UPC

4A - SC/APC(Step)

N - None

S - Specify

⑤⑤: Fiber Jacket on Port 1 & 2

B - Baer Fiber

F - 900um Loose Tube(White)

T - 3mm Cable(Yellow)

S - Specify

⑥: Fiber Length

1 - 1.0m

S - Specify

⑦/⑦: Fiber Type

1 - HI 1060

2 - 10/125 N.A 0.08

10 - Nufern LMA-GDF-20/125-M NA0.08

35 - SCF-UN-10/125 NA0.08

72 - LMA-GDF 10/125-M NA0.075

90 - Liekki passive-12/250 SCF NA0.08

S - Specify

High Power Polarization Insensitive Isolator 10xxnm 1~10W (TGG Type)

Spec Review No.: SR2406027A

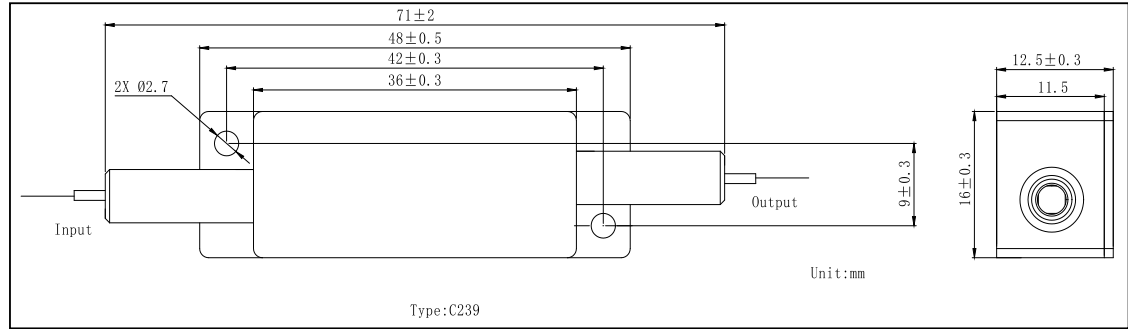
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Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	1064 or Specify
Operating Wavelength Range	nm	± 5
Min. Isolation at $\lambda_c, 23^{\circ}\text{C}$	dB	26
Typ. Insertion Loss at $\lambda_c, 23^{\circ}\text{C}$	dB	0.5
Max. Insertion Loss at $\lambda_c, 23^{\circ}\text{C}$	dB	1.0
Min. Return Loss at $\lambda_c, 23^{\circ}\text{C}$	dB	50/50
Max. Polarization Dependent Loss	dB	0.15
Max. Optical Average Power	W	10 or Specify
Max. Peak Power for ns pulse	kW	10
Max. Tensile Load	N	5
Operating Temperature	$^{\circ}\text{C}$	10 to +50
Storage Temperature	$^{\circ}\text{C}$	0 to +75

* Above specifications are for device without connector.
*For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower, handling power will be only 1W(CW).
*The material must be RoSH compliant.

Package Dimensions



Ordering Information

HP11-①①-②③③-④④④-⑤⑤⑤-⑥⑥⑥-⑦⑦⑦

- | | | |
|--|--|---|
| ①①: Wavelength
06 - 1064nm
S - Specify | ④④: Connector Type
N - None
S - Specify | ⑥⑥: Fiber Length
1 - 1m
S - Specify |
| ②②: Package Type
C239 - Type C239 | ⑤⑤: Fiber Jacket
B - Bare Fiber
F - 900um Loose Tube(White)
S - Specify | ⑦⑦: Fiber Type
1 - Hi1060 Fiber
72- LMA-GDF 10/125-M NA0.075 Fiber
83 - Nufern GSF-10/125 NA0.075 Fiber
S - Specify |

High Power Polarization Maintaining Isolator 10xxnm 50~100W

Spec Review No.: SR2403056A

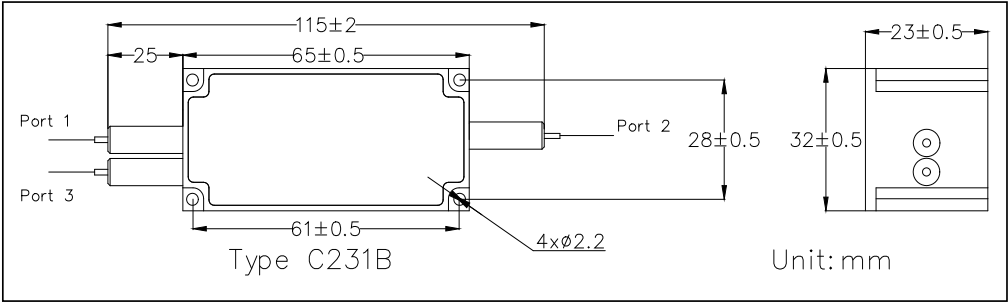
Date: Mar. 27, 2024

Specifications

Parameters	Unit	Values
Center Wavelength (λc)	nm	1064 or Specify
Operating Wavelength Range	nm	±5
Typ. Peak Isolation at λc,23℃,(Port2 to Port1)	dB	30~35
Min. Isolation at λc,23℃,(Port2 to Port1)	dB	28
Typ. Insertion Loss at λc,23℃,(Port1 to Port2)	dB	0.5
Max. Insertion Loss at λc,23℃,(Port1 to Port2)	dB	0.7
Max. Insertion Loss at λc,23℃ Fast Axis,(Port1 to Port3)	dB	1.0
Min. Return Loss at λc,23℃,(Port1 , Port2)	dB	50
Min. ER at 23℃,(Port1 to Port2)	dB	20
Max. Average Power @ Proper SOP	W	50 or Specify
Max. Peak Power for ns Pulse	kW	10
Max. Tensile Load	N	5
Operating Temperature	℃	10 to +50
Storage Temperature	℃	0 to +75

- *Above parameter only for inner core.
- * Above specifications are for device without connector.
- * For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower,ER will be 2dB lower & handling power will be only 1W(CW)
- * The PM fiber and connector key are aligned to the slow axis.
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMI-①①-②-③③-④-⑤⑤⑤-⑥-⑦-⑧⑧⑧

- | | | |
|---|--|---|
| ①①: Wavelength
06 - 1064nm
S - Specify | ④: Axis Alignment
F - Fast Axis Blocked | ⑦: Fiber Length
0.6 - 0.6m
S - Specify |
| ②: Package Type
C231B - Type C231B | ⑤⑤⑤: Connector Type
N - None
S - Specify | ⑧⑧⑧: Fiber Type
45 - PLMA-GDF 10/125-M NA0.075 Fiber
S72- LMA-GDF 10/125-M NA0.075 Fiber
S - Specify |
| ③③: Handling Power
50 - 50W
S - Specify | ⑥: Fiber Jacket
B - Bare Fiber | |

High Power Polarization Insensitive Isolator 10xxnm 50~100W

Spec Review No.: SR2405001A

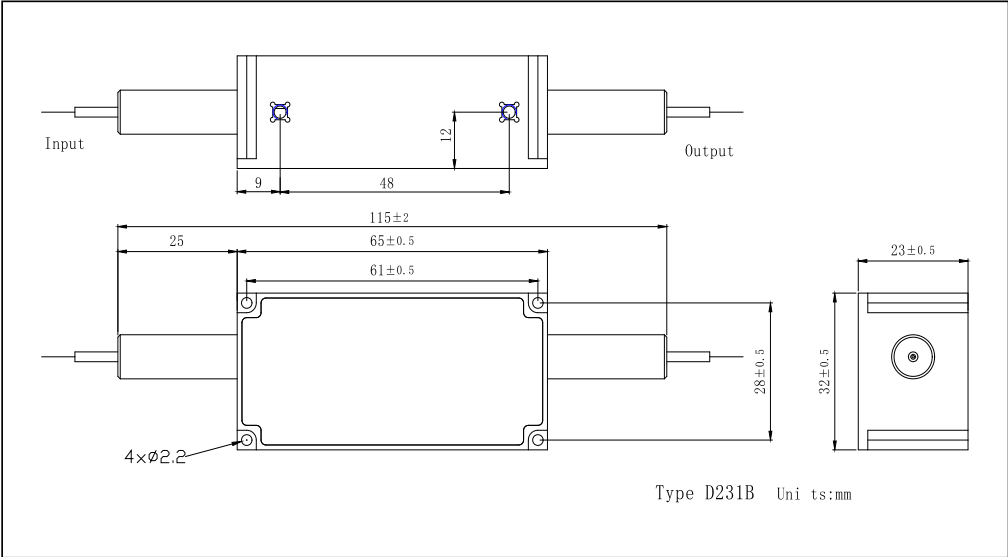
Date: Mar. 01, 2024

Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	1064 or Specify
Operating Wavelength Range	nm	± 5
Typ. Peak Isolation at $\lambda_c, 23^{\circ}\text{C}$, (Output to Input)	dB	35
Min. Isolation at $\lambda_c, 23^{\circ}\text{C}$, (Output to Input)	dB	28
Typ. Insertion Loss at $\lambda_c, 23^{\circ}\text{C}$, (Input to Output)	dB	0.45
Max. Insertion Loss at $\lambda_c, 23^{\circ}\text{C}$, (Input to Output)	dB	0.6
Min. Return Loss at $\lambda_c, 23^{\circ}\text{C}$, (Input&Output)	dB	50
Min. Polarization Dependent Loss	dB	0.15
M2 Degradation	-	$\leq 20\%$
Max. Average Power @ Proper SOP	W	100 or Specify
Max. Peak Power for ns Pulse	kW	10
Max. Tensile Load	N	5
Operating Temperature	$^{\circ}\text{C}$	10 to +50
Storage Temperature	$^{\circ}\text{C}$	0 to +75

- * Above specifications are for device without connector.
- * IL will be 0.5dB higher, RL will be 5dB lower for each connector added and optical power is only 1W.
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

HP11-①①-②-③③-④④-⑤⑤-⑥-⑦⑦

- | | | |
|---|--|---|
| ①①: Wavelength
06 - 1064nm
S - Specify | ④④: Connector Type
N - None
S - Specify | ⑥: Fiber Length
1 - 1.0m
S - Specify |
| ②: Package Type
C231B - Type C231B | ⑤: Fiber Jacket
B - Bare Fiber
S - Specify | ⑦⑦: Fiber Type
126 - CJGDF-30/250-062
S - Specify |
| ③③: Handling Power
100 - 100W
S - Specify | | |

High Power Polarization Maintaining Isolator 10xxnm 500W

Spec Review No.: SR2405036A

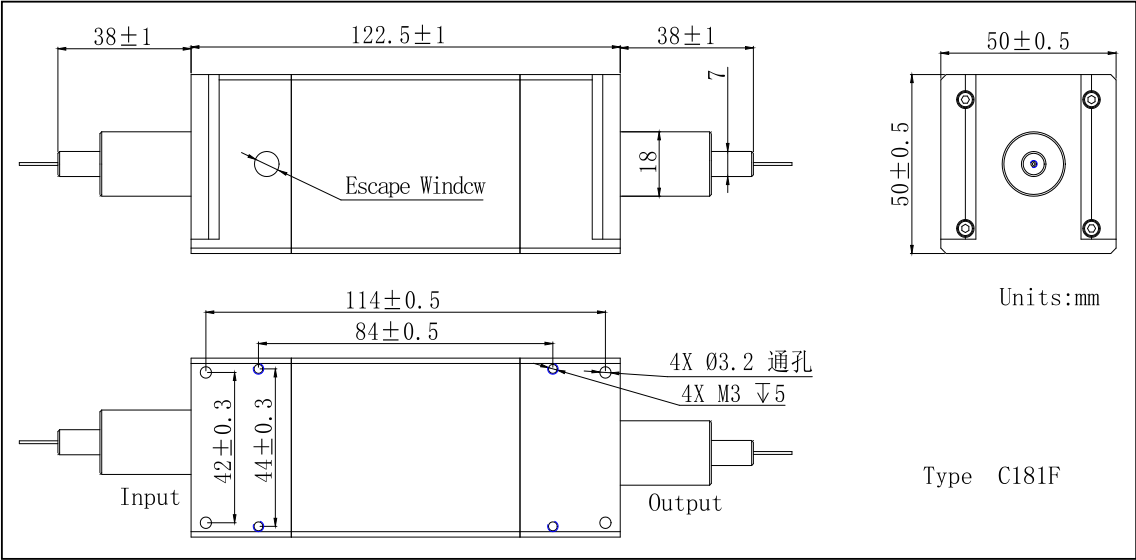
Date: Apr. 26, 2024

Specifications

Parameters	Unit	Values
Center Wavelength (λc)	nm	1064 or Specify
Operating Wavelength Range	nm	±5
Typ. Peak Isolation at λc,23℃	dB	30~35
Min. Isolation at λc,23℃	dB	28
Typ. Insertion Loss at 23℃	dB	0.45
Max. Insertion Loss at λc,23℃	dB	0.5
Min. Return Loss at λc,23℃	dB	50
Min. ER at 23℃	dB	18
Max. Average Power @ Proper SOP	W	500 or Specify
Max. Peak Power for ns Pulse	kW	10
Max. Tensile Load	N	5
Operating Temperature	℃	10 to +50
Storage Temperature	℃	0 to +75

- *Above parameter only for inner core.
- * Above specifications are for device without connector.
- * For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower,ER will be 2dB lower & handling power will be only 1W(CW)
- * The PM fiber and connector key are aligned to the slow axis.
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMI-①①-②-③③-④-⑤⑤-⑥⑥-⑦-⑧⑧

- | | | |
|---|---|--|
| ①①: Wavelength
06 - 1064nm
S - Specify | ④: Axis Alignment
F - Fast Axis Blocked
B - Both Axis Working | ⑦: Fiber Length
0.8 - 0.8m
S - Specify |
| ②: Package Type
C181F - Type C181F | ⑤⑤: Connector Type
N - None | ⑧⑧: Fiber Type
71 - Nufern PLMA-GDF-25/250 NA0.065 Fiber
S - Specify |
| ③③: Handling Power
500 - 500W
S - Specify | ⑥⑥: Fiber Jacket
B - Bare Fiber | |

High Power Polarization Insensitive Isolator 10xxnm 500W

Spec Review No.: SR2406043A

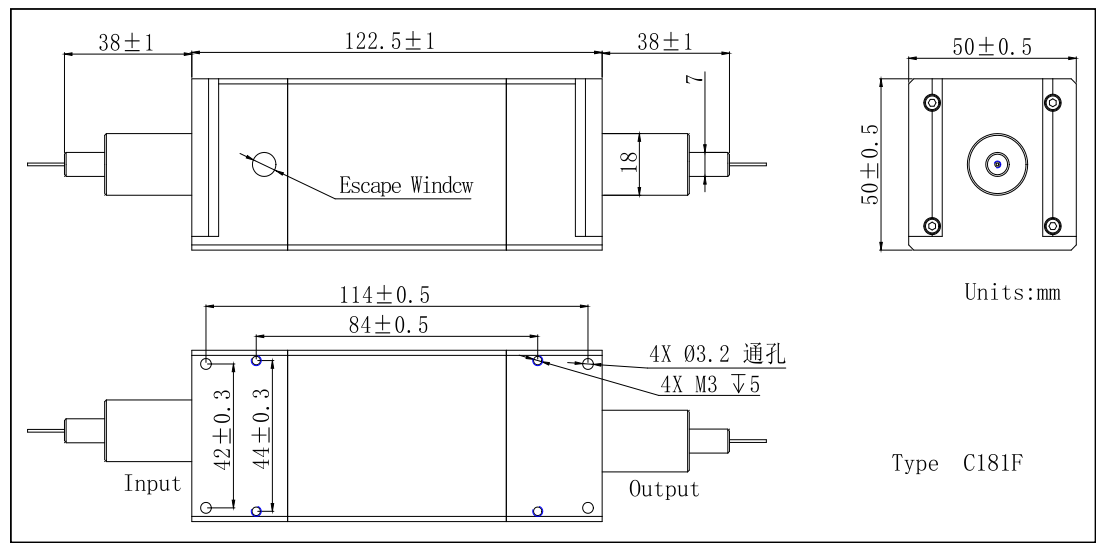
Date: Apr 26, 2024

Specifications

Parameters	Unit	Values
Center Wavelength	nm	1064 or Specify
Operating Wavelength Range	nm	±5
Typ. Peak Isolation	dB	32
Min. Isolation at 23℃	dB	28
Typ. Insertion Loss at 23℃	dB	0.3
Max. Insertion Loss at 23℃	dB	0.45
Min. Return Loss (Input/Output)	dB	50/50
Max. Polarization Dependent Loss	dB	0.15
Max. Insertion Loss@635nm	dB	7
M2 Degradation	-	≤15%
Max. Average Power	W	200,500 or Specify
Max. Peak Power for ns Pulse	kW	50
Max. Tensile Load	N	5
Operating Temperature	℃	10 to +50
Storage Temperature	℃	0 to +70

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HP11-①①-②-③③③-④④-⑤⑤-⑥-⑦⑦

①①: Wavelength
06 - 1064nm
S - Specify

④④: Connector Type
N - None

⑥: Fiber Length
2 - 2m
S - Specify

②: Package Type
C181F - C181F

⑤⑤: Fiber Jacket
B - Bare Fiber
W - 2mm Loose Tube(White)

⑦⑦: Fiber Type
66 - Nufern LMA-GDF-30/250-M NA0.062 Fiber
111 - CJ-GDF-100/400/550-NA0.12 Fiber
119 - CJGDF-50/400,NA0.12 Fiber
120 - CJGDF-25/250 NA0.065 Fiber
128 - YOFC SI 100/120/360-15/540(DC)NA0.15 Fiber
S - Specify

③③③: Handling Power
200 - 200W
500 - 500W
S - Specify

High Power Polarization Insensitive Isolator 10xxnm 1000W

Spec Evaluation No.: SE2312011B

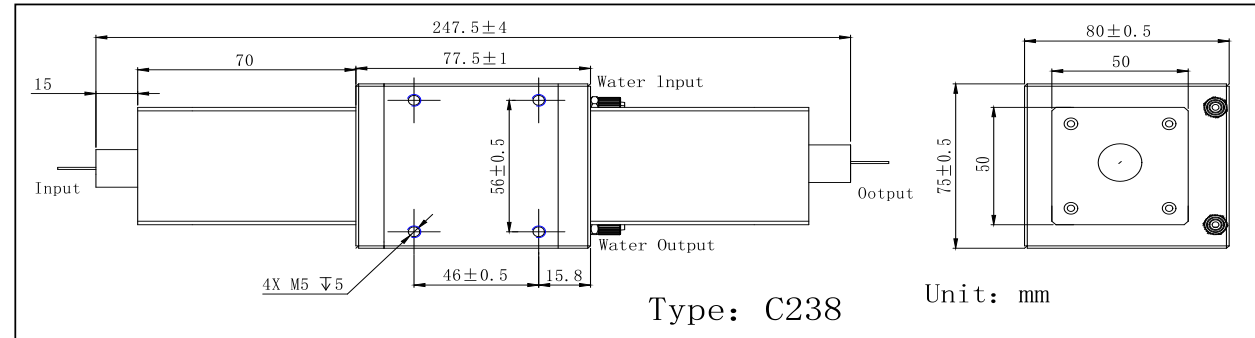
Date: Dec. 26, 2023

Specifications

Parameters	Unit	Values
Center Wavelength	nm	1064
Operating Wavelength Range	nm	±5
Typ. Peak Isolation	dB	32
Min. Isolation at 23℃	dB	28
Typ. Insertion Loss at 23℃	dB	0.3
Max. Insertion Loss at 23℃	dB	0.45
Min. Return Loss (Input/Output)	dB	50/50
Max. Polarization Dependent Loss	dB	0.2
Max. Insertion Loss@635nm	dB	7
Max. Average Power	W	1000
Max. Peak Power for ns Pulse	MW	2
Max. Tensile Load	N	5
Flow Rate of Water	L/min	1.5~3
Max. Water Pressure	Mpa	8
Operating Temperature	℃	10 to +50
Storage Temperature	℃	0 to +70

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HP11-①①-②-③③③-④④-⑤⑤-⑥-⑦⑦

①①: Wavelength 06 - 1064nm S - Specify	③③③: Handling Power 1000 - 1000W S - Specify	⑥: Fiber Length 1.5 - 1.5m S - Specify
②: Package Type C238 - Type C238 S - Specify	④④: Connector Type N - None ⑤⑤: Fiber Jacket B - Bare Fiber	⑦⑦: Fiber Type 131 - BrightCore 200/400 NA0.1 Fiber 132 - GDF-DC 200/360 NA0.12 Fiber S- Specify

High Power Polarization Maintaining Isolator 15xxnm 1~10W

Spec No.: CAT-05-008E

Date:

Specifications

Parameters	Unit	Values	
Stage		Single Stage	Dual Stage
Center Wavelength (λ_c)	nm	1310, 1480, 1550 or 1590	
Operating Wavelength Range	nm	± 20	
Typ. Peak Isolation	dB	42	58
Min. Isolation at 23℃	dB	28	48
Typ. Insertion Loss at 23℃	dB	0.4	0.5
Max. Insertion Loss at 23℃, λ_c	dB	0.6	0.7
Min. Return Loss (Input/Output)	dB	55	55
Min. Extinction Ratio(only for F type)	dB	25	25
Min. Extinction Ratio(only for B type)	dB	22	22
Max. Optical Power (CW)	W	1, 5, 10 or Specify	
Max. Peak Power for ns Pulse	kW	10	
Max. Tensile Load	N	5	
Fiber Type		PM Panda Fiber	
Operating Temperature	℃	-5 to +70	
Storage Temperature	℃	-40 to +85	

*Above specifications are for device without connector.

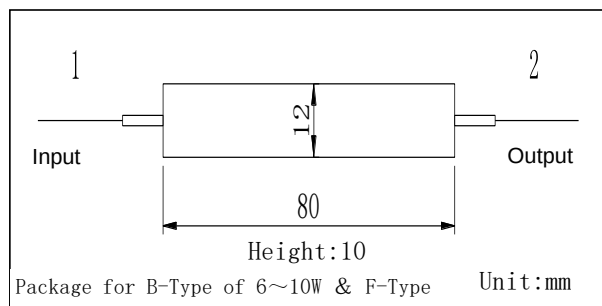
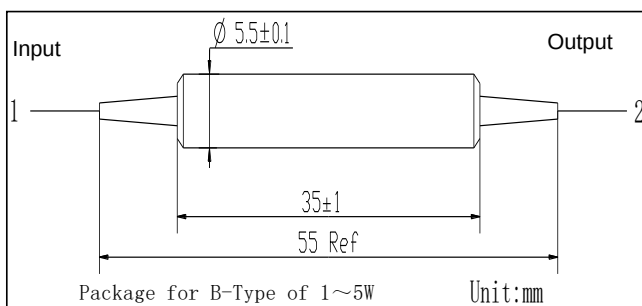
*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, ER will be 2dB lower, and handling power will be 1W(CW).

*The PM fiber and the connector key are aligned to the slow axis.

*For pulse application please discuss with Optizone.

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMI-①-②-③-④-⑤⑤-⑥⑥-⑦-⑧-⑨⑨

①: Wavelength

1310 - 1310nm

1480 - 1480nm

1550 - 1550nm

S - Specify

②: Stage

S - Single Stage

D - Dual Stage

③: Power Level

1 - 1W

5 - 5W

10 - 10W

S - Specify

④: Axis Alignment

F - Fast Axis Blocked

B - Both Axis Working

⑤⑤: Connector Type on Port 1 & 2

N - None

S - Specify

⑥⑥: Fiber Jacket on Port 1 & 2

B - Bare Fiber

C - 900um Red Loose Tube

S - Specify

⑦: Fiber Type

2A - PM 1300

3A - PM 1550

S - Specify

⑧: Fiber Length

0.8 - 0.8m

S - Specify

⑨⑨: Package Type

01 - Ø5.5×35

08 - 80×12×10

High Power Polarization Insensitive Isolator 15xxnm 1~10W

Spec No.: CAT-05-004G

Date:

Specifications

Parameters	Unit	Values	
Stage	-	Single Stage	Dual Stage
Center Wavelength	nm	1310, 1480, 1550, 1590, 1620	
Operating Wavelength Range	nm	±20	
Typ. Peak Isolation	dB	42	58
Min. Isolation at 23℃	dB	28	48
Typ. Insertion Loss at 23℃	dB	0.35	0.4
Max. Insertion Loss at 23℃, λ c	dB	0.5	0.6
Min. Return Loss (Input/Output)	dB	57 / 55	57 / 55
Max. PDL at 23℃	dB	0.08	0.1
Max. PMD	ps	0.2 ¹	0.05
Max. Optical Power (CW)	W	1, 3, 5, 10 or Specify	
Max. Peak Power for ns Pulse	kW	10	
Max. Tensile Load	N	5	
Fiber Type	-	SMF-28e Fiber	
Operating Temperature	℃	-5 to +70	
Storage Temperature	℃	-40 to +85	

¹PMD<0.05ps is available. Please refer to below ordering information.

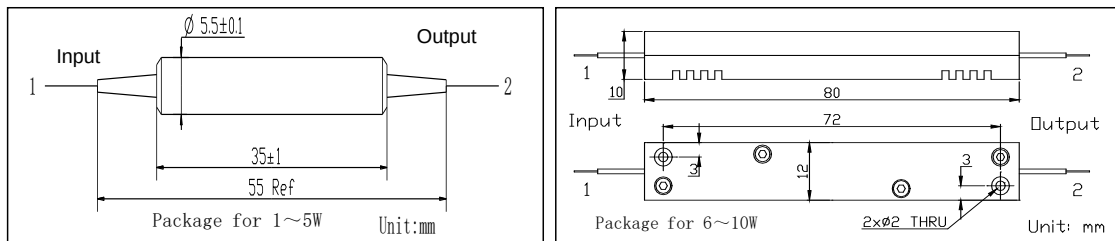
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lower and optical power is only 1W(CW).

*For pulse application please discuss with Optizone.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HP11-①①①①-②-③-④-⑤⑤-⑥⑥-⑦-⑧-⑨

①①①①: Wavelength

1310 - 1310nm

1480 - 1480nm

1550 - 1550nm

S - Specify

②: Stage

S - Single Stage

D - Dual Stage

③: Power Level

1 - 1W

3 - 3W

5 - 5W

10 - 10W

S - Specify

④: PMD

1 - 0.05ps Max.

2 - Refer to above Spec.

⑤⑤: Connector Type on Port 1 & 2

1B - FC/UPC

2B - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify

⑥⑥: Fiber Jacket on Port 1 & 2

B - 250um Bare Fiber

F - 900um White Loose Tube

T - 3mm Yellow Cable

S - Specify

⑦: Fiber Type

5 - SMF-28e Fiber

⑧: Fiber Length

1 - 1m

S - Specify

⑨: Package Type

01 - Ø5.5×35

08 - 80×12×10

10 - Ø5.5×35(Without rub)

S - Specify

Polarization Maintaining Isolator 19xx~20xx 1W

Spec No.: CAT-10-013D

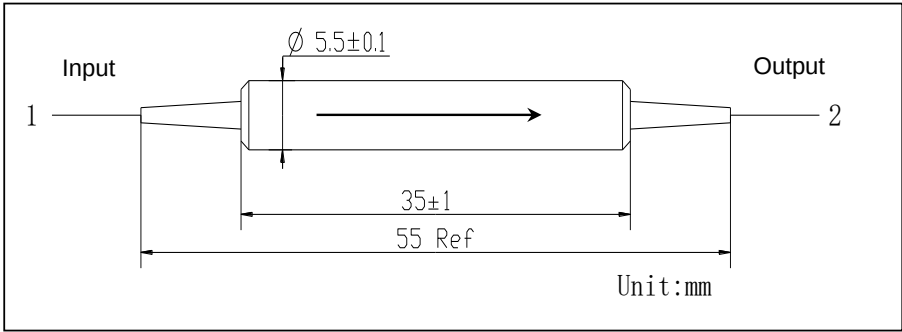
Date:

Specifications

Parameters	Unit	Values	
Stage		Single Stage	Dual Stage
Center Wavelength (λ_c)	nm	2000	
Operating Wavelength Range	nm	± 50	
Min. Isolation at 23℃	dB	18	32
Typ. Insertion Loss at 23℃	dB	0.8	1.0
Max. Insertion Loss at -5℃-70℃	dB	1.1	1.3
Min. Extinction Ratio(only for B type)	dB	18	
Min. Extinction Ratio(only for F type)	dB	20	
Min. Return Loss (Input/Output)	dB	50/50	
Max. Optical Power (CW)	mW	500	
Max. Tensile Load	N	5	
Fiber Type		PM 1550 Fiber , PM 1950 Fiber or Specify	
Operating Temperature	℃	-5 to +70	
Storage Temperature	℃	-40 to +85	

- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower.
- *The PM fiber and the connector key are aligned to the slow axis.
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMI-①-②-③-④④-⑤⑤-⑥-⑦-⑧⑧

- ①: Wavelength
2000 - 2000nm
S - Specify

②: Stage
S - Single Stage
D - Dual Stage

③: Axis Alignment
F - Fast Axis Blocked
B - Both Axis Working
- ④④: Connector Type on Port 1 &2
1B - FC/UPC
2B - FC/APC (Step)
3D - SC/UPC
4D - SC/APC (Step)
N - None
S - Specify

⑤⑤: Fiber Jacket on Port 1 &2
B - Bare Fiber
C - 900um Red Loose Tube
SS - Specify
- ⑥: Fiber Type
3B - PM 1550
B10 - PM 1950
S - Specify

⑦: Fiber Length
0.8 - 0.8m
S - Specify

⑧⑧: Package Type
01 - Ø5.5×35
S - Specify

High Power Polarization Insensitive Isolator 19xx~20xxnm 1~10W

Spec No.: CAT-05-057C

Date:

Specifications

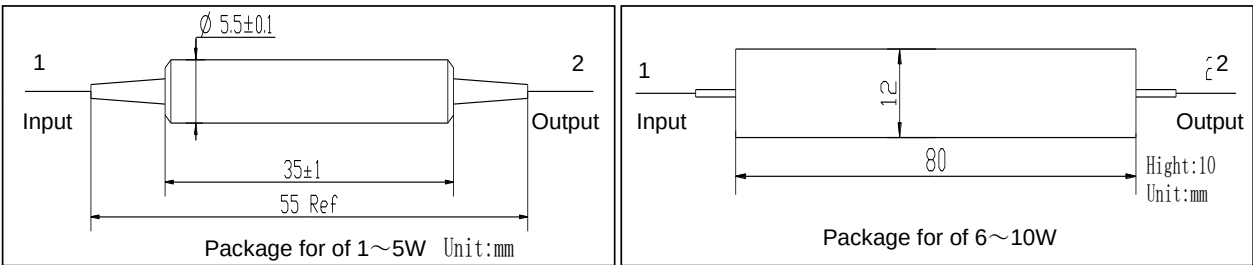
Parameters	Units	Values	
Stage	-	Single Stage	Dual Stage
Center Wavelength	nm	2000	
Operating Wavelength Range	nm	±50	
Min. Isolation at 23℃	dB	18	32
Typ. Insertion Loss at 23℃	dB	0.8	1.0
Max.Insertion Loss	dB	1.2	1.4
Max.Polarization Dependent Loss	dB	0.15	0.20
Min. Return Loss (Input/Output)	dB	50 / 50	50 / 50
Max. Optical Power (CW)	W	1, 3, 5 or Specify	
Max. Tensile Load	N	5	
Fiber Type	-	SMF-28e Fiber or SM 1950 Fiber	
Operating Temperature	℃	-5 to +70	
Storage Temperature	℃	-40 to +85	

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, optical power is only 1W.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HP11-①①①①-②-③③-④④-⑤⑤-⑥-⑦-⑧

①①①①: Wavelength

2000 - 2000nm

S - Specify

④④: Connector Type on Port 1 & 2

1A - FC/UPC

2A - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify

⑥: Fiber Type

5 - SMF-28e Fiber

K2 - SM 1950 Fiber

M4 - Nufern SM-GDF-10/130-15M NA0.15

S - Specify

②: Stage

S - Single Stage

D - Dual Stage

⑦: Fiber Length

0.8 - 0.8m

S - Specify

③③: Handling Power

01 - 1W

05 - 5W

10 - 10W

SS - Specify

⑤⑤: Fiber Jacket on Port 1 & 2

B - Bare Fiber

C - 900um Red Loose Tube

F - 900um White Loose Tube

SS - Specify

⑧: Package Type

01 - Ø5.5×35

08 - 80*12*10

High Power Polarization Maintaining Isolator 19xx~20xxnm 1~10W

Spec No.: CAT-10-018C

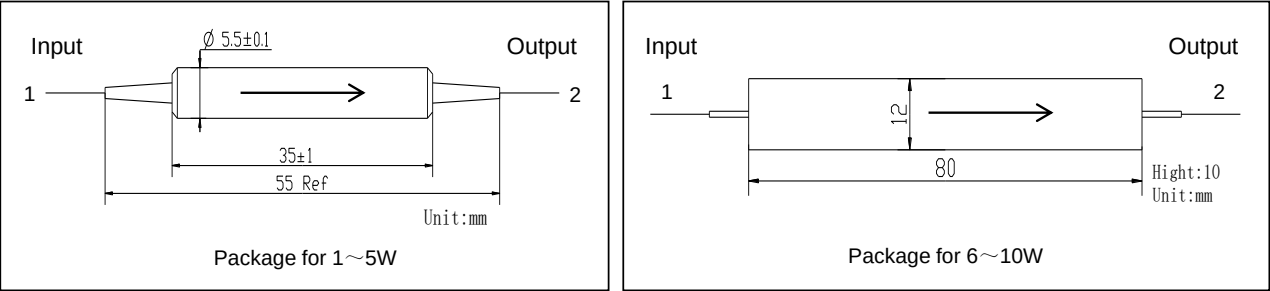
Date:

Specifications

Parameters	Unit	Values	
Stage	-	Single Stage	Dual Stage
Center Wavelength (λc)	nm	2000	
Operating Wavelength Range	nm	±50	
Min. Isolation at 23℃	dB	18	32
Typ. Insertion Loss at 23℃	dB	0.8	1.0
Max. Insertion Loss at -5℃-70℃	dB	1.2	1.4
Min. Extinction Ratio(only for B type)	dB	18	
Min. Extinction Ratio(only for F type)	dB	20	
Min. Return Loss (Input/Output)	dB	50/50	
Max. Optical Power (CW)	W	1, 5 or Specify	
Max. Tensile Load	N	5	
Fiber Type	-	PM 1550 Fiber , PM 1950 Fiber or Specify	
Operating Temperature	℃	-5 to +70	
Storage Temperature	℃	-40 to +85	

- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, ER will be 2dB lower. Optical power is only 1W(CW).
- *The PM fiber and the connector key are aligned to the slow axis.
- *For F type, fast axis is blocked, the input must be Linear polarized light, and the input polarization must be aligned properly.
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMI-①-②-③③-④-⑤⑤-⑥⑥-⑦-⑧-⑨⑨

- ①: Wavelength
2000 - 2000nm

②: Stage
S - Single Stage
D - Dual Stage

③③: Handling Power
01 - 1W
05 - 5W
SS - Specify

④: Axis Alignment
F - Fast Axis Blocked
B - Both Axis Working
- ⑤⑤: Connector Type on Port 1 & 2
1B - FC/UPC
2B - FC/APC (Step)
3D - SC/UPC
4D - SC/APC (Step)
N - None
S - Specify

⑥⑥: Fiber Jacket on Port 1 & 2
B - Bare Fiber
C - 900um Red Loose Tube
S - Specify
- ⑦: Fiber Type
3B - PM 1550
B10 - PM 1950
S - Specify

⑧: Fiber Length
0.8 - 0.8m
S - Specify

⑨⑨: Package Type
01 - Ø5.5×35
08 - 80×12×10

High Power Polarization Maintaining Collimated Beam Isolator 10xxnm 5~20W

Spec Review No.: SR2311093A

Date:Nov, 27, 2023

Specifications

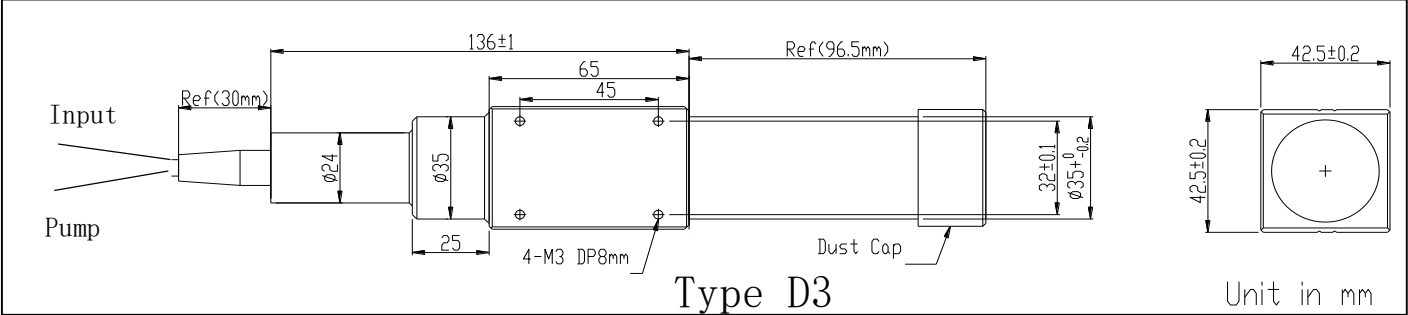
Parameters	Unit	Values
Signal Center Wavelength (λ_c)	nm	1030
Pump Operating Wavelength	nm	976 $\pm$ 5
Typ. Peak Isolation	dB	30
Min. Isolation at 23°C	dB	25
Min. Transmission at 23°C (Input to Free Spcae)	dB	0.6
Min. Transmission at 23°C (Pump to Input)	dB	0.8
Min. Return Loss	dB	50
Min. Extinction Ratio (only for F Type)	dB	20
Nominal Output Beam Diameter ($1/e^2$)	mm	5.7 $\pm$ 0.3
Nominal Divergence Angle (Full Angle)	mrad	$\leq$ 0.3
Min. Ellipticity	%	95
Max. Average Signal Optical Power	W	5
Max. Optical Power (pulse)	kW	10
Max. Average Pump Optical Power	W	20
Operating Temperature	°C	-5 to +50
Storage Temperature	°C	-20 to +75

*The dimensions of beam expanders are dependent on the required beam diameter, detailed informations pls contact Optizone or see the shipment data sheet.

*The optical path is aligned to slow axis and fast axis is blocked.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMCI-①①-②②-③③-④-⑤⑤-⑥-⑦-⑧/⑧-⑨

①①: Wavelength

9703 - 976/1030nm

SS - Specify

④: Axis Alignment

F - Fast Axis Blocked

⑦: Fiber Length

0.8 - 0.1m 900um loose tube

&0.7m Bare Fiber

②②: Package Type

D3 - Type D3

⑤⑤: Output Beam Diameter

57 - 5.7mm

S - Specify

⑧/⑧:Fiber Type

S - PLMA-YDF-30/250-GDF

S109 - MMF-105/125 NA0.22 fiber

③③: Handling Power

05 - 5W

20 - 20W

⑥: Fiber Jacket

C - 900um Loose tube (Red)

H - 900um Loose tube (Green)

⑨: Output Polarization

V - Vertical

H - Horizontal

High Power Polarization Insensitive Collimated Beam Isolator 10xxnm 5~20W

Spec Review No.: SR1505002C

Date: Jun. 09, 2023

Specifications

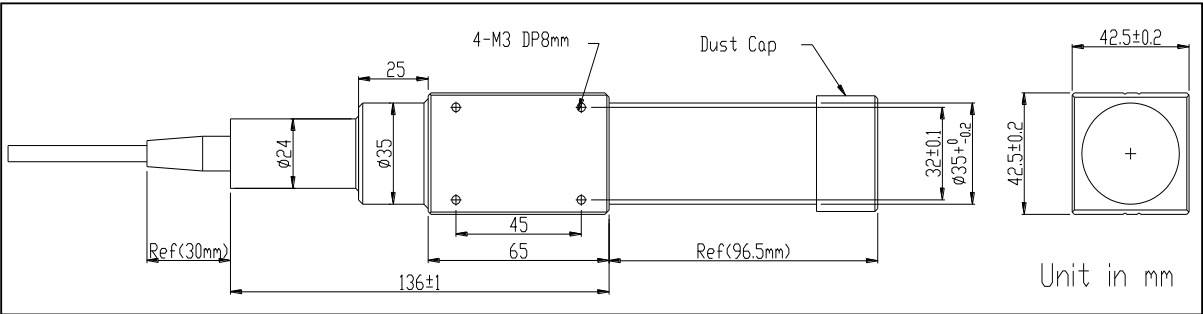
Parameters	Unit	Values	
Center Wavelength (λc)	nm	1064	
Operating Wavelength Range	nm	±10	
Min. Peak Isolation @ 23℃	dB	30~35	
Min. Isolation @ 23℃	dB	25	
Min. Dynamic Isolation @ 23℃	dB	25	20
Min. Transmission @ 23℃	-	90%	
Min. Transmission @ 635nm	-	15%	
Max. Polarizaiton Dependent Loss	dB	0.1	
Min. Return Loss	dB	50	
Nominal Output Beam Diameter @0~1m WD	mm	4.0±0.5	
Output Beam Ellipticity	-	≥90%	
Beam Divergence	mrad	0.5	
Max. Optical Average Power	W	20	
Max. Peak Power	kW	<20	
Pulse Widths	ns	100.0	
Repetition Rate	kHz	20~80	
Nominal M ² Degradation@20W	-	<15%	
Fiber Type	-	SCF-UN-20/250-08 Fiber	SCF-UN-20/250-11 Fiber
Fiber Pull Force	N	5	
Operating Temperature	℃	10 to +50	
Storage Temperature	℃	-10 to +70	

*For different pulse applications, pls discuss with Optizone Technology.

*The dimensions of beam expanders are dependent on the required beam diameter,detailed informations pls contact Optizone or see the shipment data sheet.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPICI-①①-②②-③③-④④-⑤-⑥-⑦

- ①①: Wavelength
0663 - 1064/635nm
S - Specify

②②: Package Type
D3 - Type D3

③③: Handling Power
20 - 20W
S - Specify
- ④④: Output Beam Diameter
40 - 4.0mm
S - Specify

⑤: Fiber Jacket
6 - 6mm Armoured Cable
- ⑥: Fiber Length
4 - 3.2m 6mm Armoured Cable
& 2.6mm Loose Tube ,
0.8m Bare Fiber
S - Specify

⑦: Fiber Type
53 - SCF-UN-20/250 NA0.11 Fiber

High Power Polarization Maintaining Collimated Beam Isolator 10xxnm 20W

Spec Review No.: SR2311031A

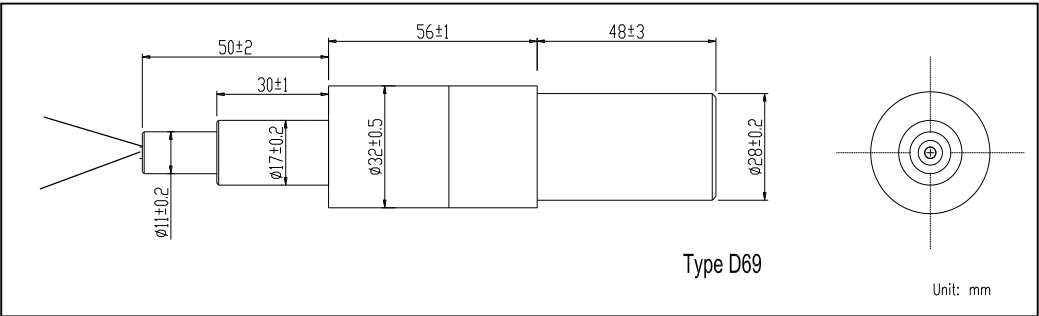
Date:Nov. 13, 2023

Specifications

Parameters	Unit	Values
Operating Wavelength Range	nm	1064±5
Min. Isolation at 23℃	dB	28
Min. Transmission@976nm	-	83%
Min. Transmission@1064nm	-	90%
Min. Return Loss	dB	50
Min. Extinction Ratio (only for F Type)	dB	22
Nominal Output Beam Diameter (1/e^2)	mm	1.8+/-0.3 @ 0~1000mm
Nominal Output Beam Divergence	mrاد	<0.3
Ellipticity	-	≥95%
Nominal M ² Degradation	-	≤10%
Max. Optical Average Power	W	5
Max. Peak Power for ns Pulse	KW	50
Operating Temperature	℃	-5 to +50
Storage Temperature	℃	-20 to +75

- * For special pulse applications, pls discuss with Optizone Technology.
- * The optical path is aligned to slow axis and fast axis is blocked.
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMCI-①①-②②-③③-④-⑤⑤-⑥-⑦-⑧

- | | | |
|--|---|---|
| ①①: Wavelength
97 - 976nm pump
06 - 1064nm | ④: Axis Alignment
F - Fast Axis Blocked | ⑦: Fiber Length
1 - 1m 900um Loose Tube
& Bare Fiber |
| ②②: Package Type
D69 - Type D69 | ⑤⑤: Output Beam Diameter
18 - 1.8mm | ⑧: Fiber Type
61 - YDF Nufern PM 10/125 NA0.075
S109 - MMF-105/125 NA0.22 fiber |
| ③③: Handling Power
05 - 5W
SS - Specify | ⑥: Fiber Jacket
C - 900um Loose Tube (Red)
H - 900um Loose Tube (Green) | S - Specify |

High Power Polarization Insensitive Collimated Beam Isolator 10xxnm 20W

Spec Review No.: SR2208010C

Date: Nov.01, 2023

Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	1064
Operating Wavelength Range	nm	± 10
Min. Isolation at λ_c , 25°C	dB	30~35
Min. Isolation at 25°C	dB	25
Min. Transmission at 25°C	-	90%
Min. Return Loss at 1064nm	dB	50
Max. Polarizaiton Dependent Loss	dB	0.1
Beam Pointing Accuracy	deg	± 0.2 With Respect to Bottom and Rear Sides
Output Beam Diameter($1/e^2$)@5~1200mm WD	mm	2.0 ± 0.2
Beam Divergence (86.5% of Power)@500~1200mm WD	mrad	≤ 0.9
Max. Optical Average Power	W	20
Max. Peak Power for ns Pulse	kW	15 @ 7ns
Max. Energy	mJ	1.0
Repetition Rate	kHz	0.5~1000
Operating Temperature	°C	0 to +50
Storage Temperature	°C	-40 to +60

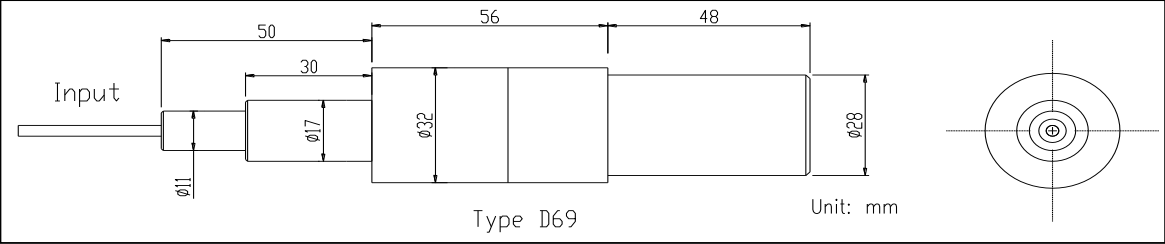
*Make sure that the dust cap is removed before operation.

*For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower, handling power will be only 1W(CW).

*Fix the crystal with ED-057 glue.

*The material must be RoSH compliant.

Package Dimensions



Ordering Information

HPICI-①①-②②②-③③-④④-⑤⑤-⑥-⑦-⑧

①①: Wavelength

06 - 1064nm

SS - Specify

④④: Output Beam Diameter

20 - 20mm

⑦:Max.Energy

1 - 0.5mJ

②②②: Package Type

D69 - Type D69

⑤⑤: Fiber Jacket

3 - 3mm Armoured Cable

⑧:Fiber Type

20 - DCF-UN-20/125, NA 0.11

S - Specify

③③: Handling Power

20 - 20W

SS - Specify

⑥: Fiber Length

1 - 1.0m

High Power Polarization Maintaining Collimated Beam Isolator 10xxnm 50W

Spec Review No.: SR2304019A

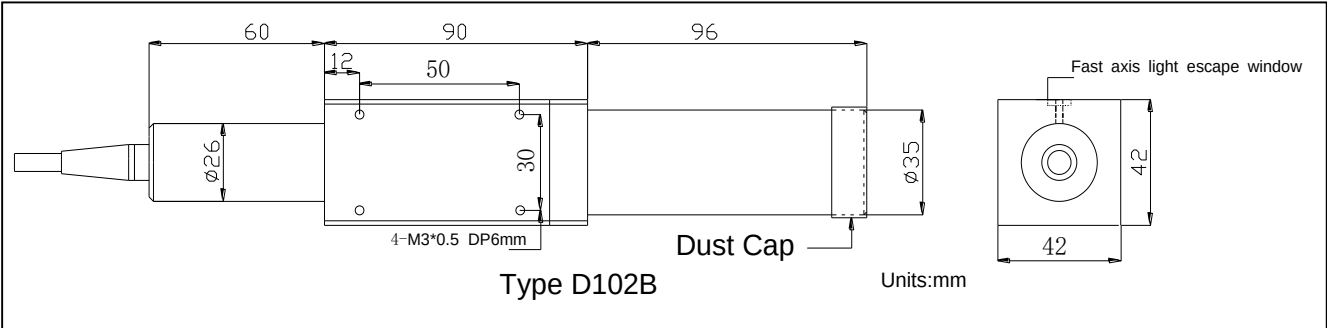
Date:Apr. 07, 2023

Specifications

Parameters	Unit	Values
Operating Wavelength Range	nm	1064±5
Min. Isolation at 23℃	dB	28
Min. Transmission @1064nm	-	93%
Min. Transmission @635nm	-	5%
Min. Return Loss	dB	50
Min. Extinction Ratio (only for F Type)	dB	22
Nominal Output Beam Diameter (1/e^2)	mm	10±1@ 0~2000mm
Nominal Output Beam Divergence	mrاد	<0.03
Ellipticity	-	≥93%
Nominal M ² Degradation	-	≤10%
Max. Optical Average Power	W	50
Max. Peak Power for ns Pulse	KW	50
Fiber Type	-	PLMA-GDF-25/250-UF,NA0.75
Operating Temperature	℃	10 to +50
Storage Temperature	℃	-20 to +50

- *Above parameter only for inner core.
- *For special pulse applications, pls discuss with Optizone Technology.
- *The optical path is aligned to slow axis and fast axis is blocked.
- *The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMCI-①①-②②-③③-④-⑤⑤-⑥-⑦-⑧-⑨

- | | | |
|--|--|---|
| ①①: Wavelength
06- 1064nm
SS - Specify | ④: Axis Alignment
F - Fast Axis Blocked | ⑦: Fiber Length
1 - 0.1m 900um Loose Tube
0.9m Bare Fiber |
| ②②: Package Type
D102B - Type D102B | ⑤⑤: Output Beam Diameter
10 - 10mm | ⑧:Fiber Type
S – PLMA-GDF-25/250-UF,NA0.75
S - Specify |
| ③③: Handling Power
50 - 50W
SS - Specify | ⑥: Fiber Jacket
L - 900um Loose Tube
S - Specify | ⑨: Output Polarization
V - Vertical
H - Horizontal |

High Power Polarization Maintaining Collimated Beam Isolator 10xxnm 100W

Spec Review No.: SR2208063B

Date: Apr. 24, 2023

Specifications

Parameters	Unit	Values
Operating Wavelength Range	nm	1080±5
Min. Isolation at 23℃	dB	28
Typ. Transmission @1064nm	-	93%
Min. Transmission @1064nm	-	90%
Min. Transmission @635nm	-	5%
Min. Return Loss	dB	50
Min. Extinction Ratio (only for F Type)	dB	22
Nominal Output Beam Diameter (1/e^2)	mm	0.5±0.1mm@ 5mm
Ellipticity	-	≥90%
Nominal M ² Degradation	-	≤10%
Max. Optical Average Power	W	100
Max. Peak Power for ns Pulse	kW	20
Fiber Type	-	PLMA-GDF 20/130 NA0.08
Operating Temperature	℃	10 to +50
Storage Temperature	℃	-20 to +50

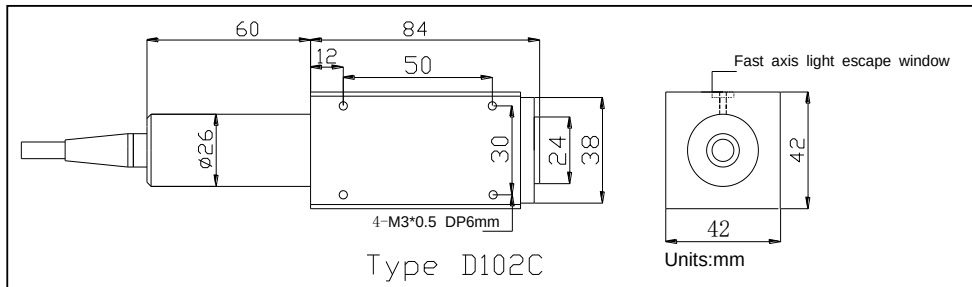
*Above parameter only for inner core.

*For special pulse applications, pls discuss with Optizone Technology.

*The optical path is aligned to slow axis and fast axis is blocked.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMCI-①①-②②-③③-④④-⑤⑤-⑥⑥-⑦⑦-⑧⑧-⑨⑨

①①: Wavelength
0863- 1080/635nm
SS - Specify

②②: Package Type
D102C - Type D102C

③③: Handling Power
100 - 100W
SS - Specify

④④: Axis Alignment
F - Fast Axis Blocked
B - Both Axis Working

⑤⑤: Output Beam Diameter
05 - 0.5mm

⑥⑥: Fiber Jacket
C - 900um Loose Tube
S - Specify

⑦⑦: Fiber Length
1.1 - 0.1m 900um Loose Tube
1m Bare Fiber

⑧⑧: Fiber Type
41 - PLMA-GDF 20/130 NA0.08
S - Specify

⑨⑨: Output Polarization
V - Vertical
H - Horizontal

High Power Polarization Maintaining Collimated Beam Isolator 10xxnm 250W

Spec Review No.: SR2412068A

Date:Dec. 26, 2024

Specifications

Parameters	Unit	Values
Operating Wavelength Range	nm	1064±5
Min. Isolation at 23℃	dB	26
Typ. Transmission @1064nm	-	90%
Min. Transmission @1064nm	-	80%
Min. Transmission @635nm	-	5%
Min. Return Loss	dB	50
Min. Extinction Ratio (only for F Type)	dB	20
Nominal Output Beam Diameter (1/e^2)	mm	4±0.5@ 0~2m @250W
Nominal Output Beam Divergence	mrad	<0.2
Ellipticity	-	≥85%@0~2m
Nominal M ² Degradation	-	≤20%
Max. Optical Average Power	W	250
Max. Peak Power for ns Pulse	KW	100
Operating Temperature	℃	10 to +50
Storage Temperature	℃	-20 to +50

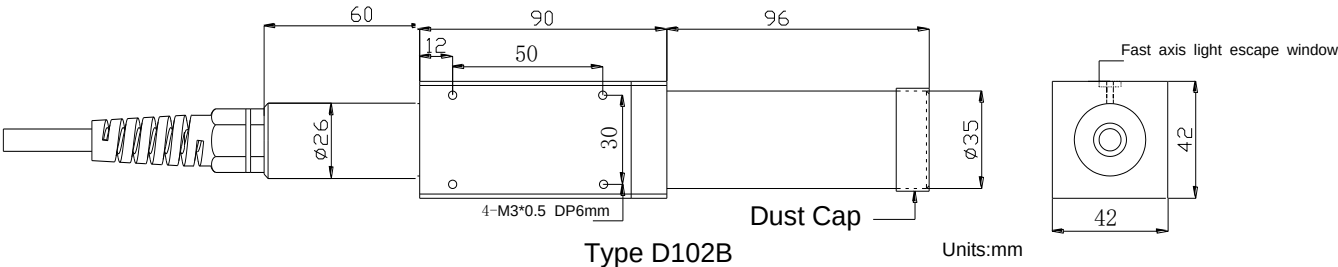
*Above parameter only for inner core.

*For special pulse applications, pls discuss with Optizone Technology.

*The optical path is aligned to slow axis and fast axis is blocked.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMCI-①①-②-③③③-④-⑤⑤-⑥-⑦-⑧-⑨

①①: Wavelength Range
06 - 1064nm
SS - Specify

②: Package Type
D102B - Type D102B

③③③: Handling Power
250 - 250W
SS - Specify

④: Axis Alignment
F - Fast Axis Blocked

⑤⑤: Output Beam Diameter
40 - 4.0mm
S - Specify

⑥: Fiber Jacket
Q - 3mm Loose Tube
S - Specify

⑦: Fiber Length
1 - 0.1m 3mm Loose Tube
&0.9m Bare Fiber
⑧:Fiber Type
96 - PM GDF 50/400 NA0.11 Fiber
S - Specify

⑨: Output Polarization
V - Vertical
H - Horizontal

High Power Polarization Maintaining Collimated Beam Isolator 10xxnm 500W

Spec Review No.: SR2311054A

Date: Nov. 16, 2023

Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	1064
Operating Wavelength Range	nm	± 10
Min. Isolation at 23°C	dB	30
Min. Transmission @ 1064nm		93%
Min. Transmission @ 635nm	-	5%
Min. Return Loss	dB	50
Nominal Output Beam Diameter ($1/e^2$)@0~1m WD	mm	3.0 ± 0.5
Ellipticity From Output Surface	-	>92%
Min. Extinction Ratio (only for F Type)	dB	25
Nominal M^2 Degradation	-	<10%
Max. Optical Average Power @ 1064nm	W	500
Max. Water Pressure	Bar	8
Flow of Water	L/min	1.5-3
Max Peak Power for ns Pulse	kW	100
Max Pulse Energy	mJ	2
Cable Tensile Load	N	50
Operating Temperature	°C	10 to 50
Storage Temperature(non-condensing)	°C	-20 to +50

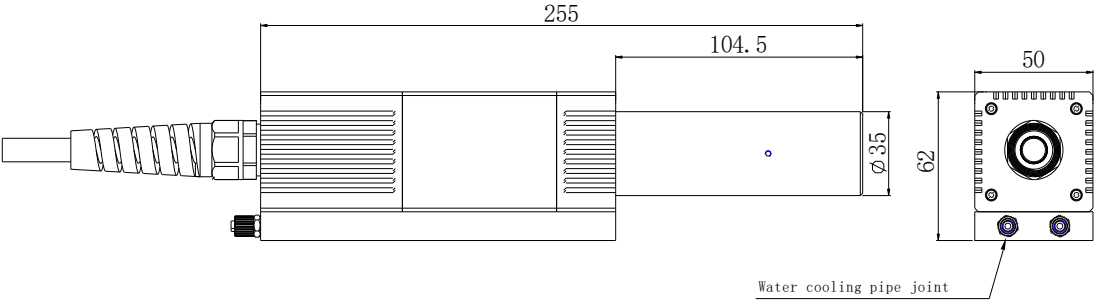
*Above parameter only for inner core.

*For special pulse applications, pls discuss with Optizone Technology.

*The optical path is aligned to slow axis and fast axis is blocked.

*The material must be RoHS compliant.

Package Dimensions



Type D227B

Units:mm

Ordering Information

HPMCI-①①①①-②②②②-③③③③-④④-⑤-⑥-⑦-⑧-⑨

①①①①: Wavelength
06 - 1064nm
SS - Specify

④: Axis Alignment
F - Fast Axis Blocked

⑦: Fiber Length
4.5 - 3m 10mm Armoured Cable
& 1.8mm Loose Tube
1.5m Bare Fiber

②②②: Package Type
D227B - Type D227B

⑤⑤: Output Beam Diameter
30 - 3.0mm
SS - Specify

⑧⑧: Fiber Type
48 - PLMA-GDF 30/250-M NA0.06

③③③: Handling Power
500 - 500W
SS - Specify

⑥: Fiber Jacket
10 - 10mm Armoured Cable
S - Specify

⑨: Output Polarization
V - Vertical
H - Horizontal

High Power Polarization Insensitive Collimated Beam Isolator 10xxnm 500W

Spec Review No.: SR2406046A

Date: Jun . 28 , 2024

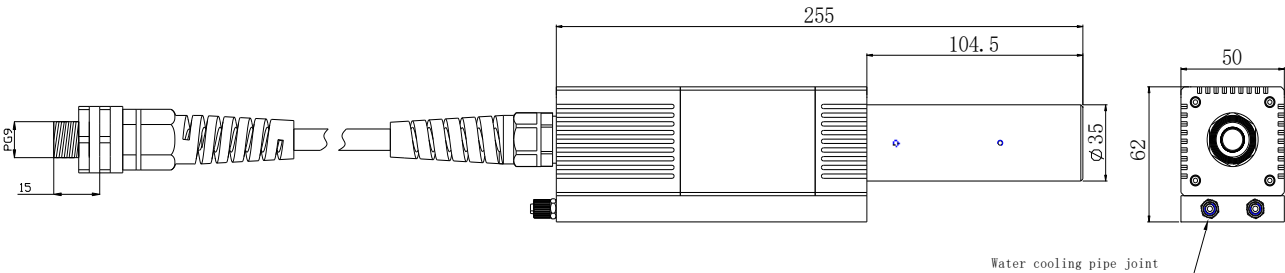
Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	1064
Operating Wavelength Range	nm	± 10
Min. Isolation	dB	30
Min. Transmission @ 1064nm	-	95%
Min. Transmission @ 635nm	-	20%
Min. Return Loss	dB	50
Nominal Output Beam Diameter ($1/e^2$)@0~1m WD	mm	7.0 ± 0.5
Ellipticity From Output Surface	-	$> 92\%$
Nominal M^2 Degradation	-	$< 10\%$
Max. Optical Average Power @ 1064nm	W	500
Max. Water Pressure	Bar	8
Flow of Water	L/min	1.5-3
Max Peak Power for ns Pulse	kW	100
Max Pulse Energy	mJ	2
Cable Tensile Load	N	50
Operating Temperature	$^{\circ}\text{C}$	10 to 50
Storage Temperature(non-condensing)	$^{\circ}\text{C}$	-10 to +70

*The dimensions of beam expanders are dependent on the required beam diameter,detailed informations pls contact Optizone or see the shipment data sheet.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPICI-①①①①-②②②-③③③-④④-⑤-⑥-⑦⑦

①①①①: Wavelength
0663 - 1064/635nm
SS - Specify

②②②: Package Type
D227B - Type D227B

③③③: Handling Power
500 - 500W
SS - Specify

④④: Output Beam Diameter
70 - 7.0mm
SS - Specify

⑤: Fiber Jacket
8 - 8mm Armoured Cable
S - Specify

⑥: Fiber Length
6.5 - 5m 10mm Armoured Cable
& 1.8mm Loose Tube
1.5m Bare Fiber

⑦⑦: Fiber Type
107 - YOFC GDF_DC 30/250-0.065
SS - Specify

High Power Polarization Insensitive Collimated Beam Isolator 10xxnm 1000W

Spec Review No.: SR2405032A

Date: May. 22, 2024

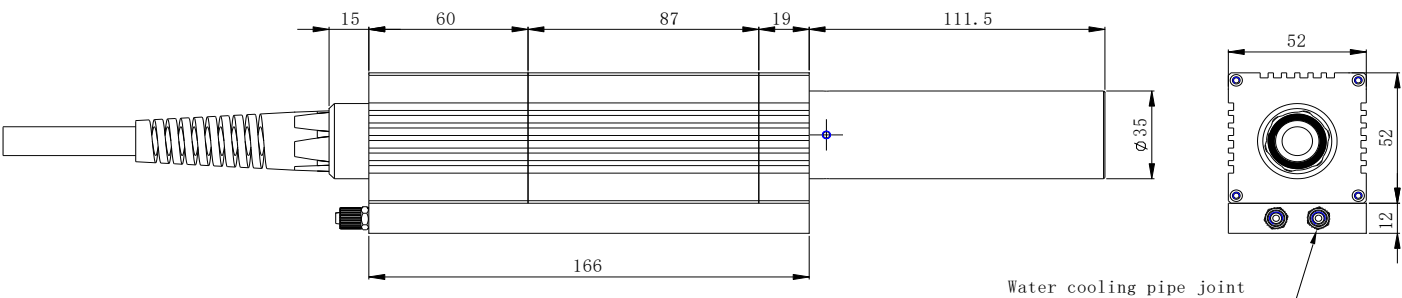
Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	1064
Operating Wavelength Range	nm	± 10
Min. Isolation	dB	30
Min. Transmission @ 1064nm	-	95%
Min. Transmission @ 635nm	-	20%
Min. Return Loss	dB	50
Nominal Output Beam Diameter ($1/e^2$)@0~1m WD	mm	10 ± 0.5
Ellipticity From Output Surface	-	$> 92\%$
Nominal M^2 Degradation	-	$< 10\%$
Max. Optical Average Power @ 1064nm	W	1000
Max. Water Pressure	Bar	8
Flow of Water	L/min	1.5-3
Max Peak Power for ns Pulse	kW	100
Max Pulse Energy	mJ	2
Cable Tensile Load	N	100
Operating Temperature	$^{\circ}\text{C}$	10 to 50
Storage Temperature(non-condensing)	$^{\circ}\text{C}$	-10 to +70

*The dimensions of beam expanders are dependent on the required beam diameter,detailed informations pls contact Optizone or see the shipment data sheet.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPICI-①①①①-②②②-③③③-④④-⑤-⑥-⑦

①①①①: Wavelength
0663 - 1064/635nm
SS - Specify

④④: Output Beam Diameter
100 - 10.0mm
SS - Specify

⑥: Fiber Length
6.5 - 5m 10mm Armoured Cable
& 1.8mm Loose Tube
1.5m Bare Fiber

②②②: Package Type
D219A - Type D219A

③③③: Handling Power
1000 - 1000W
SS - Specify

⑤: Fiber Jacket
9.2 - 9.2mm Armoured Cable
S - Specify

⑦: Fiber Type
116 - BrightCore 30/250 NA0.06
S - Specify

High Power Polarization Insensitive Collimated Beam Isolator 10xxnm 20W

Spec Review No.: SR2208009C

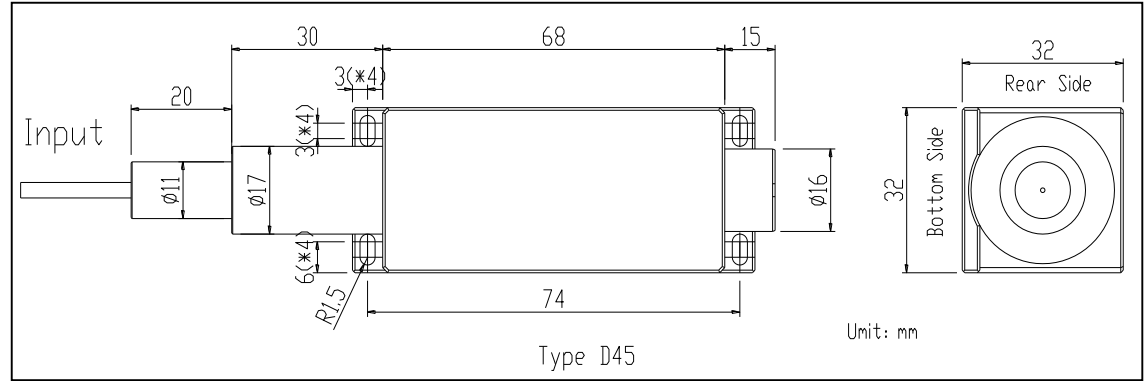
Date: Nov.01, 2023

Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	1064
Operating Wavelength Range	nm	± 10
Min. Isolation at 25°C	dB	30
Min. Isolation at 0~40°C	dB	28
Min. Transmission at 25°C	-	92%
Min. Return Loss at 1064nm	dB	50
Max. Polarizaiton Dependent Loss	dB	0.1
Beam Pointing Accuracy	deg	± 0.2 With Respect to Bottom and Rear Sides
Output Beam Diameter($1/e^2$)	mm	0.39 ± 0.05 @ 5mm WD
Waist Position(Output Surface Reference)	mm	0~5
Beam Divergence (86.5% of Power)	mrad	3.4 ± 0.6
Max. Optical Average Power	W	20
Max. Peak Power for ns Pulse	kW	25
Max.Energy	mJ	0.5
Repetition Rate	kHz	0.5~1000
Operating Temperature	°C	0 to +50
Storage Temperature	°C	-40 to +60

- *Make sure that the dust cap is removed before operati
- *For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower, handling power will be only 1W(CW).
- *Fix the crystal with ED-057 glue.
- *The material must be RoSH compliant.

Package Dimensions



Ordering Information

HPICI-①①-②②②-③③-④④-⑤⑤-⑥-⑦-⑧

- | | | |
|--|--|--|
| ①①: Wavelength
06 - 1064nm
SS - Specify | ④④: Output Beam Diameter
039 - 0.39mm
SS - Specify | ⑥: Fiber Length
1 - 1.0m
S - Specify |
| ②②②: Package Type
D45 - Type D45 | ⑤⑤: Fiber Jacket
T - 3mm Loose Cable
S - Specify | ⑦:Max.Energy
1 - 0.5mJ |
| ③③: Handling Power
20 - 20W
SS - Specify | | ⑧: Fiber Type
20 - DCF 20/125,NA0.11 Fiber
S - Specify |

High Power Polarization Insensitive Collimated Beam Isolator 10xxnm 200W

Spec Review No.: SR2405009A

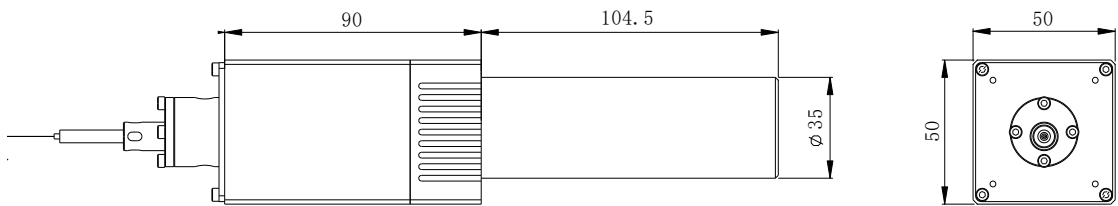
Date: May. 08,2024

Specifications

Parameters	Unit	Values
Center Wavelength (λc)	nm	1064
Operating Wavelength Range	nm	±5
Min. Isolation @ 25℃	dB	28
Typ. Transmission at 1064nm	-	95%
Min. Return Loss	dB	50
Max. Polarizaiton Dependent Loss	dB	0.1
Nominal Output Beam Diameter(1/e^2) @200W	mm	11.5±1
Nominal M2 Degradation	-	<10%
Ellipticity	%	>92
Nominal Output Beam Divergence	mrad	<0.3
Max. Optical Power(CW)	W	200
Peak power	KW	50
Peak Pulse Energy	mJ	2.5
Operating Temperature	℃	10 to 50
Storage Temperature	℃	-10 to +70

- *No plastic cap on the ends of the component if 3mm jacketed is chosen;
- *If special pulse power is applied, please discuss with Optizone;
- *Package size indicated is for standard choose, if special size is required, please discuss with Optizone.

Package Dimensions



Type D227 Units:mm

Ordering Information

HPICI-①①-②②-③③-④④-⑤-⑥-⑦

- | | | |
|--|--|--|
| ①①: Wavelength
06 - 1064nm
SS - Specify | ④④: Output Beam Diameter
115 - 11.5mm
SS - Specify | ⑥: Fiber Length
0.6 - 0.6m bare fiber
S - Specify |
| ②②: Package Type
D227 - Type D227 | ⑤: Fiber Jacket
B - Bare fiber
S - Specify | ⑦: Fiber Type
120 - CJGDF-25/250,NA0.065
S - Specify |
| ③③: Handling Power
200 - 200W
SS - Specify | | |

High Power Polarization Insensitive Collimated Beam Isolator 10xxnm 250W

Spec Review No.: SR2303001E

Date: Mar. 27, 2024

Specifications

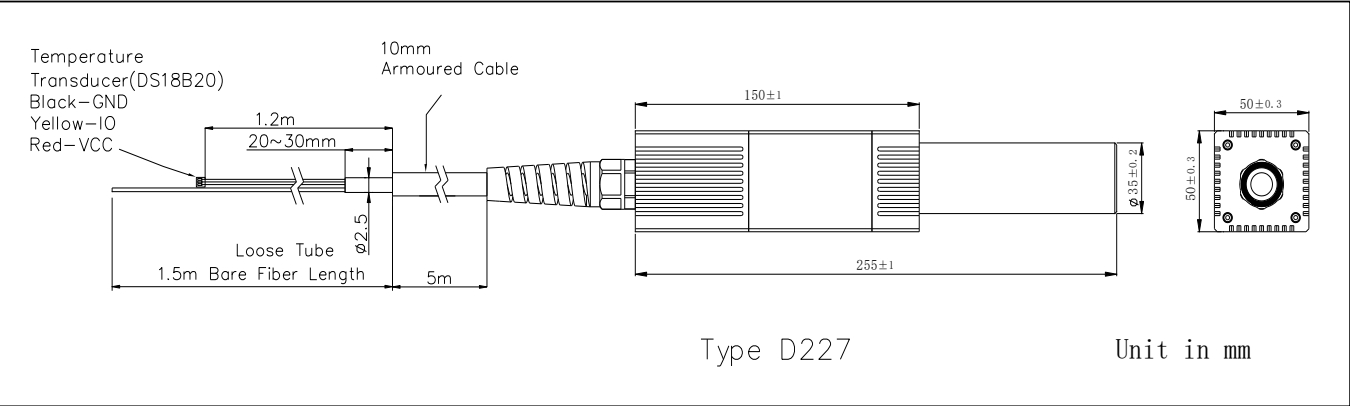
Parameters	Unit	Values
Center Wavelength (λc)	nm	1064
Operating Wavelength Range	nm	±10
Min. Isolation	dB	30
Min. Transmission @ 1064nm	-	95%
Min. Transmission @ 660nm	-	25%
Min. Return Loss	dB	50
Nominal Output Beam Diameter (1/e^2)@0~1m WD	mm	7.3±0.5
Ellipticity From Output Surface	-	>92%
Nominal M ² Degradation	-	<10%
Max. Optical Average Power @ 1064nm	W	250
Output Beam Degradation@50W/250W	%	≤10
Nominal Focal Shift of Thermal Lens @ f=300 Lens	mm	≤2.0
Peak Power for ns Pulse	kW	60
Pulse Energy	mJ	1.5
Cable Tensile Load	N	100
Temperature Rise@250W, 23℃	℃	≤15
Operating Temperature	℃	10 to 50
Storage Temperature(non-condensing)	℃	-10 to +70

*For different pulse applications, pls discuss with Optizone Technology.

*The dimensions of beam expanders are dependent on the required beam diameter,detailed informations pls contact Optizone or see the shipment data sheet.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPICI-①①①①-②②②-③③③-④④-⑤-⑥-⑦

- | | | |
|---|--|--|
| ①①①①: Wavelength
0666 - 1064/660nm
SS - Specify | ④④: Output Beam Diameter
73 - 7.3mm
SS - Specify | ⑥: Fiber Length
6.5 - 5.0m 10mm Armoured Cable
& 20~30mm 2.5mm Loose Tube
& 1.2m Temperature Sensing
1.5m Bare Fiber |
| ②②②: Package Type
D227 - Type D227 | | |
| ③③③: Handling Power
250 - 250W
SS - Specify | ⑤: Fiber Jacket
10 - 10mm Armoured Cable
S - Specify | ⑦: Fiber Type
126 - CJGDF-30/250-062
120 - CJGDF-25/250,NA0.065
SS - Specify |

High Power Polarization Insensitive Collimated Beam Isolator 10xxnm 350W

Spec Review No.: SR2406045A

Date: Jun . 28 , 2024

Specifications

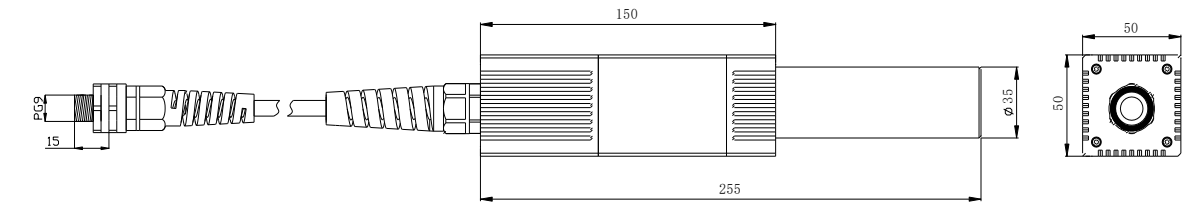
Parameters	Unit	Values
Center Wavelength (λ_c)	nm	1064
Operating Wavelength Range	nm	± 10
Min. Isolation	dB	30
Min. Transmission @ 1064nm	-	95%
Min. Transmission @ 635nm	-	20%
Min. Return Loss	dB	50
Nominal Output Beam Diameter ($1/e^2$)@0~1m WD	mm	7.0 ± 0.5
Ellipticity From Output Surface	-	$> 92\%$
Nominal M^2 Degradation	-	$< 10\%$
Max. Optical Average Power @ 1064nm	W	350
Output Beam Degradation@50W/350W	%	≤ 10
Nominal Focal Shift of Thermal Lens @ f=300 Lens	mm	≤ 3.0
Peak Power for ns Pulse	kW	100
Pulse Energy	mJ	2.0
Cable Tensile Load	N	50
Temperature Rise@350W, 23°C	°C	≤ 15
Operating Temperature	°C	10 to 50
Storage Temperature(non-condensing)	°C	-10 to +70

*For different pulse applications, pls discuss with Optizone Technology.

*The dimensions of beam expanders are dependent on the required beam diameter,detailed informations pls contact Optizone or see the shipment data sheet.

*The material must be RoHS compliant.

Package Dimensions



Type D227

Unitin:mm

Ordering Information

HPICI-①①①①-②②②-③③③-④④④-⑤⑤⑤-⑥⑥⑥-⑦⑦⑦

- ①①①①: Wavelength
0663- 1064/635nm
SS - Specify

②②②: Package Type
D227 - Type D227

③③③: Handling Power
350 - 350W
SS - Specify
- ④④④: Output Beam Diameter
70 - 7.0mm
SS - Specify

⑤⑤⑤: Fiber Jacket
8 - 8mm Armoured Cable
10 - 10mm Armoured Cable
S - Specify
- ⑥⑥⑥: Fiber Length
5 - 3.5m 8mm Armoured Cable
& 1.8mm Loose Tube
1.5m Bare Fiber

⑦⑦⑦: Fiber Type
107 - YOFC GDF_DC 30/250-0.065
S - Specify

High Power Free Space Isolator 4xxnm 500mW Clear Aperture 2.5mm

Spec Evaluation No.: SR2308074A

Date: Aug. 17, 2023

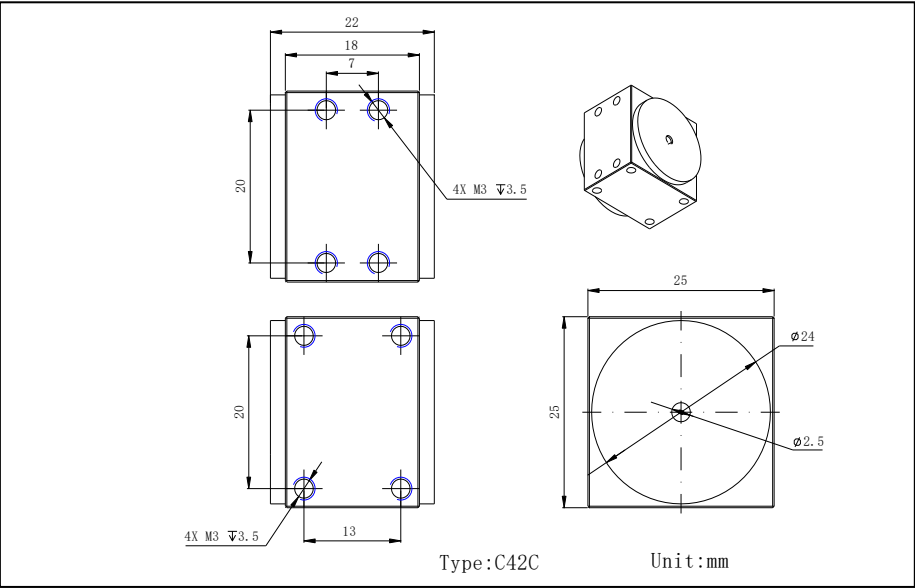
Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	405 or Specify
Operating Wavelength Range	nm	± 2
Typ. Peak Isolation	dB	30~35
Min. Isolation at 23°C	dB	28
Typ. Insertion Loss	dB	0.8
Max. Insertion Loss	dB	0.95
Min. Extinction Ratio at $\lambda_c, 23^\circ\text{C}$	dB	25
Clear Aperture	mm	2.5
Max. Optical Power (CW, measured @ BD 0.5mm)	W	0.5 or Specify
Operating Temperature	°C	10 to +40
Storage Temperature	°C	-20 to +70

*Input polarization plane - vertical.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPFSI-①①①-②②②-③③③-④④④-⑤⑤⑤

①①①: Wavelength
405 - 405nm
S - Specify

②②②: Package Type
C42C - Type C42C

③③③: Handling Power
0.5 - 0.5W
S - Specify

④④④: Clear Aperture
25 - Dia. 2.5mm
SS - Specify

⑤⑤⑤: Polarization type
S - Polarization Sensitive

High Power Free Space Isolator 7xxnm 100mW Clear Aperture 2mm

Spec Review No.: SR2407040A

Date:Jul.18,2024

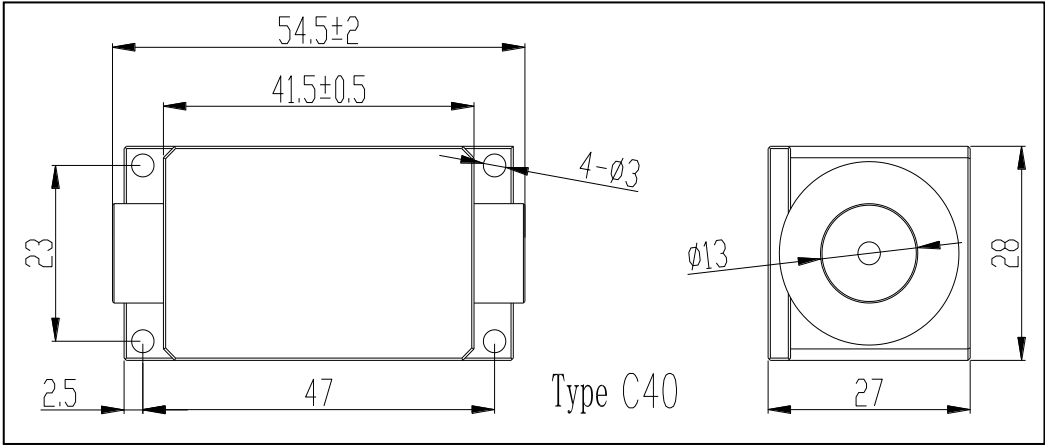
Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	780 or specify
Operating Wavelength Range	nm	± 5
Typ. Peak Isolation	dB	30~35
Min. Isolation at 23°C	dB	25
Max. Insertion Loss at 23°C	dB	0.5
Min. Extinction Ratio	dB	20
Max. Optical Power (CW, measured @ BD 0.5mm)	W	0.1 or specify
Operating Temperature	°C	-5 to +50
Storage Temperature	°C	-20 to +70

*For pulse applications, pls discuss with Optizone Technology.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPFSI-①①-②②②-③③③-④④-⑤-⑥⑥-⑦-⑧

①①: Wavelength

78 - 780nm

S - Specify

④④: Clear Aperture

20 - Dia. 2.0mm

S - Specify

⑦: Input Polarization

H - Horizontal

V - Vertical

45-45°

S - Specify

②②②: Package Type

C40 - Type C40

S - Specify

⑤: Polarization type

S - Polarization Sensitive

⑧: Output Polarization

H - Horizontal

V - Vertical

45-45°

S - Specify

③③③: Handling Power

0.1 - 0.1W

S - Specify

⑥⑥: Wavelength Range

5 - $\lambda \pm 5$ nm

S - Specify

High Power Free Space Isolator 10xxnm 10W Clear Aperture 3mm

Spec Review No.:SR240712A

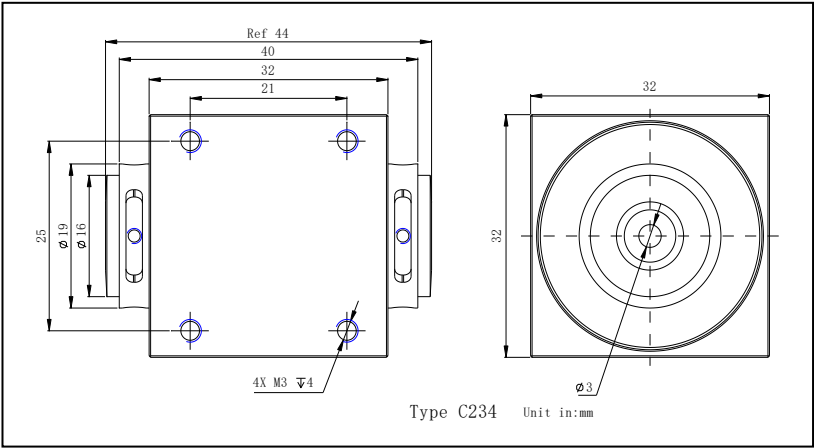
Date: Jul. 05, 2024

Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	1064 or Specify
Operating Wavelength Range	nm	± 5 or Specify
Peak Isolation at 23°C	dB	30
Max. Insertion Loss at 23°C	dB	0.3
Min. Extinction Ratio at 23°C	dB	25
Max. Optical Power (measured @ BD 1.0mm)	W	10 or Specify
Damage Threshold at 10ns	J/cm ²	10
Operating Temperature	°C	10 to +50
Storage Temperature (Non-Condensing)	°C	0 to +75

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPFSI-①①-②②②-③③-④④-⑤-⑥-⑦-⑧

①①: Wavelength

06 - 1064nm

S - Specify

②②②: Package Type

C234 - Type C234

③③: Handling Power

10 - 10W

S - Specify

④④: Clear Aperture

30 - Dia. 3mm

⑤: Polarization type

S - Polarization Sensitive

⑥: Wavelength Range

5 - $\lambda \pm 5$ nm

S - Specify

⑦: Input Polarization

H - Horizontal

V - Vertical

45 - 45°

S - Specify

⑧: Output Polarization

H - Horizontal

V - Vertical

45 - 45°

S - Specify

High Power Free Space Isolator 10xxnm 300W Clear Aperture 5mm

Spec Review No.: SR2207036A

Date: Jul. 20, 2022

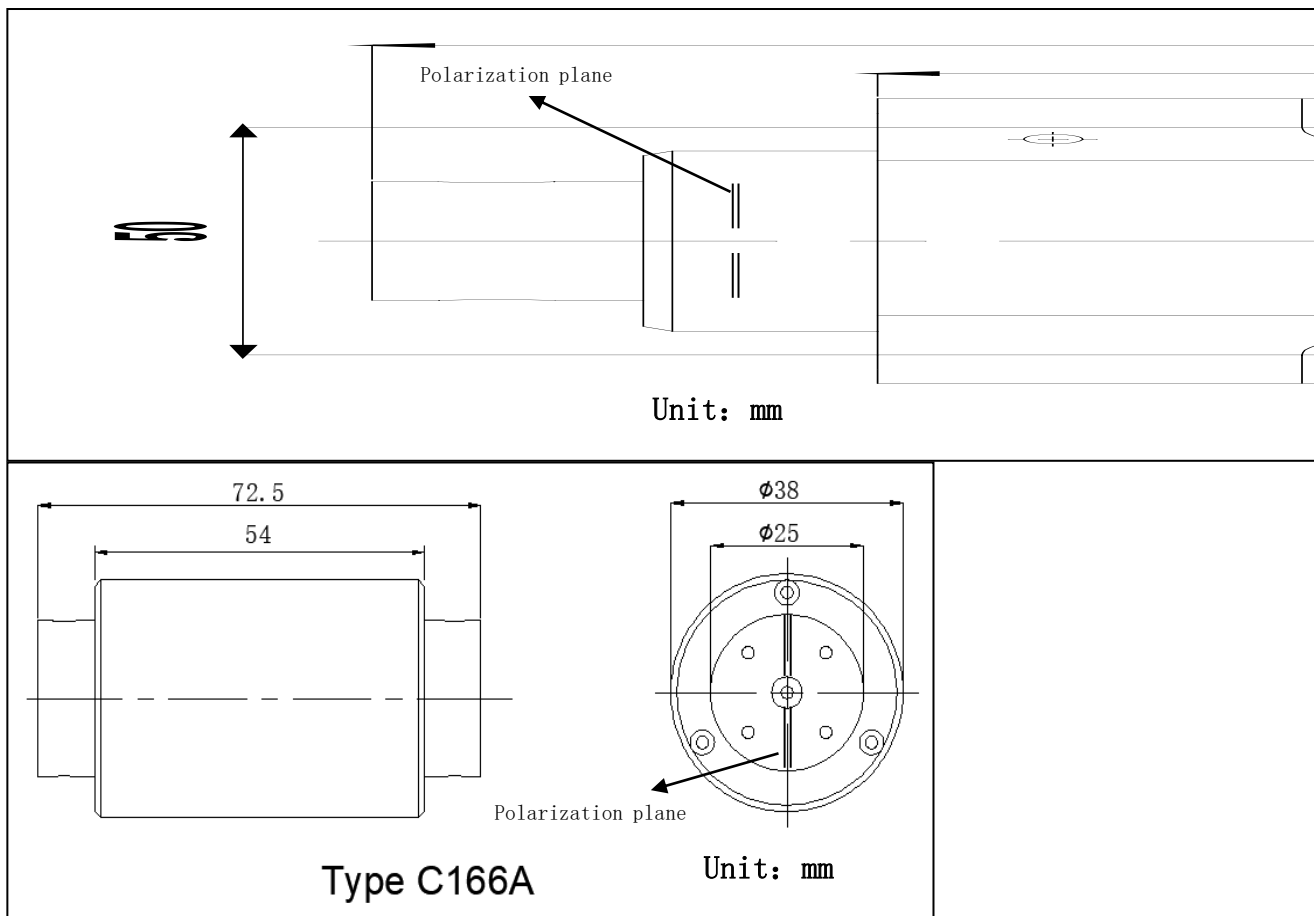
Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	1030
Operating Wavelength Range	nm	± 10
Typ. Peak Isolation at 23°C	dB	30~35
Min. Isolation at 23°C	dB	28
Max. Insertion Loss at 23°C	dB	0.4
Min. Extinction Ratio at 23°C	dB	25
Max. Optical Power (measured @ BD 2.5mm)	W	100,200,300 or Specify
Damage Threshold at 10ns	J/cm ²	10
Operating Temperature	°C	10 to +50
Storage Temperature (Non-Condensing)	°C	0 to +75

*Input polarization plane - vertical

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPFSI-①①-②②②②-③③-④④-⑤-⑥⑥-⑦-⑧

①①: Wavelength

03 - 1030nm

SS - Specify

④④: Clear Aperture

50 - Dia. 5.0mm

SS - Specify

⑦: Input Polarization

H - Horizontal

V - Vertical

S - Specify

②②②②: Package Type

C166 - Type C166

C166A - Type C166A

⑤: Polarization type

S - Polarization Sensitive

⑧: Output Polarization

H - Horizontal

V - Vertical

S - Specify

③③: Handling Power

100 - 100W

200 - 200W

300 - 300W

SS - Specify

⑥⑥: Wavelength Range

10 - $\lambda \pm 10\text{nm}$

High Power Free Space Isolator 10xxnm 500W Clear Aperture 5mm

Spec Review No.: SR2304040A

Date: Apr. 18, 2023

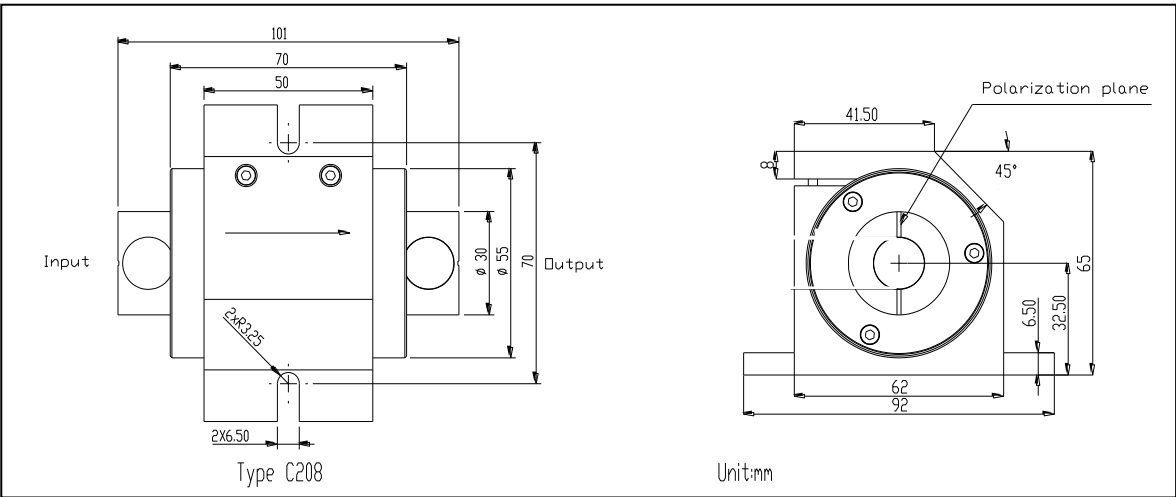
Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	1064
Operating Wavelength Range	nm	± 10
Typ. Peak Isolation at 23°C	dB	30~35
Min. Isolation at 23°C	dB	28
Max. Insertion Loss at 23°C	dB	0.2
Max. Clear Aperture	mm	5
Min. Extinction Ratio	dB	25
Max. Optical Power (Measured @BD 2.5mm)	W	200,500 or Specify
Damage Threshold at 10ps	J/cm ²	10
Operating Temperature (Non-Condensing)	°C	10 to +50
Storage Temperature (Non-Condensing)	°C	0 to +75

* The product has dustproof window ,for special requirements please contact Optizone.

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPFSI-①①-②②②②-③③③③-④④④④-⑤-⑥⑥-⑦-⑧

①①: Wavelength

06 - 1064nm

SS - Specify

④④④④: Clear Aperture

50 - Dia. 5.0mm

SSS - Specify

⑦: Input Polarization

H - Horizontal

V - Verical

S - Specify

②②②②: Package Type

C208 - Type C208

⑤: Polarization type

S - Polarization Sensitive

⑧: Output Polarization

H - Horizontal

V - Verical

S - Specify

③③③: Handling Power

200 - 200W

500 - 500W

SSS - Specify

⑥⑥: Wavelength Range

10 - $\lambda \pm 10$ nm

Free Space Isolator 15xxnm 500mW

Spec No.: CAT-07-001G

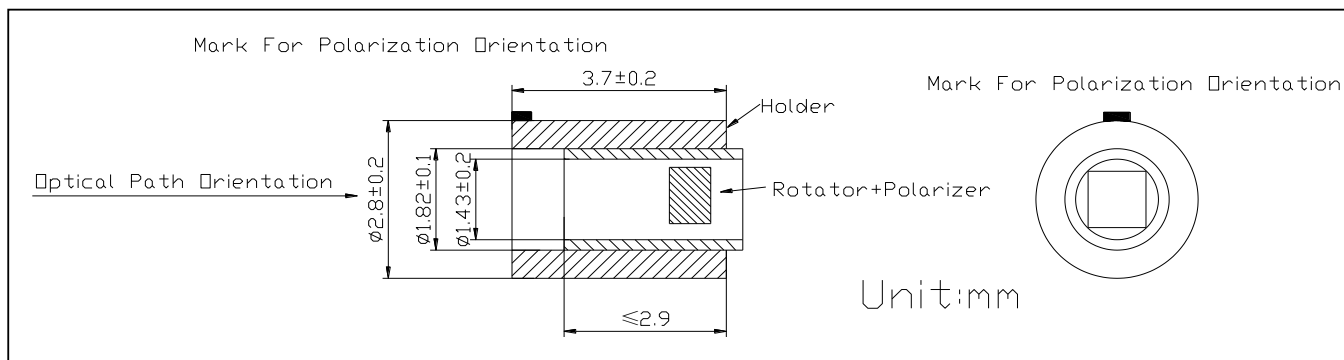
Date:

Specifications

Parameter	Unit	Values	
Stage		Single Stage	Dual Stage
Center Wavelength (λ_c)	nm	1310 or 1550	
Operating Wavelength Range	nm	± 20	
Typ. Peak Isolation	dB	42	55
Min. Isolation at 23°C, λ_c	dB	35	46
Typ. Insertion Loss at 23°C, Proper SOP	dB	0.2	0.3
Max. Insertion Loss at 23°C, Proper SOP	dB	0.3	0.4
Min. Extinction Ratio	dB	25	
Min. PDL	dB	25	
Clear Aperture	mm	0.9	
Polarization Plane of Input		Refer to Drawing Below	
Tilt Angle of Input Polarization	deg	0	
Max. Optical Power (CW), Proper SOP	mW	500 @BD500um (Proper Alignment Is Necessary)	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

FSI-①-②-③-④

①: Wavelength

1310 - 1310nm

1550 - 1550nm

S - Specify

②: Stage

S - Single Stage

D - Dual Stage

③: Optical Path Orientation

F - Forward (as indicated above)

B - Backward

④: Package Dimensions

47 - $\phi 2.8 \times 3.7$

S - Specify

Free Space Isolator 19xx~20xxnm 500mW

Spec No.: CAT-10-017C

Date:

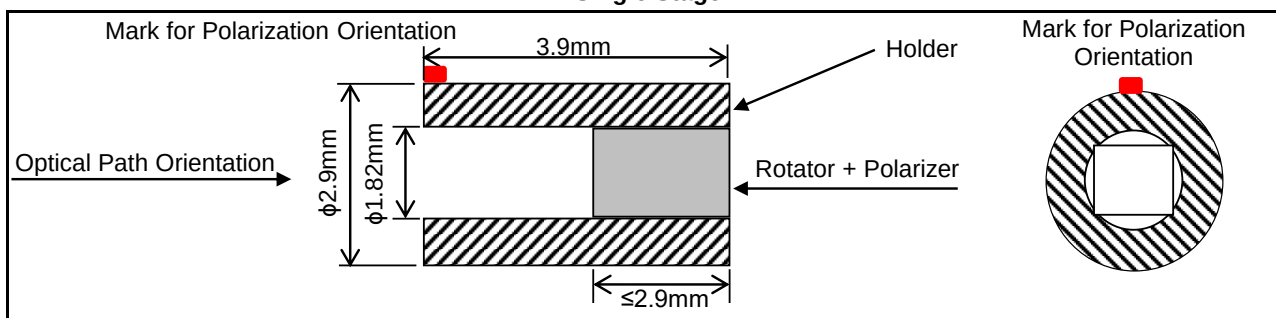
Specifications

Parameter	Unit	Values	
Stage		Single Stage	Dual Stage
Center Wavelength	nm	2000	
Operating Wavelength Range	nm	±50	
Typ. Peak Isolation	dB	38	50
Min. Isolation at 23℃	dB	18	32
Typ. Insertion Loss at 23℃	dB	0.2	0.3
Max. Insertion Loss at 23℃	dB	0.4	0.5
Clear Aperture	mm	0.9	
Polarization Plane of Input		Illustrated in Below Drawing	
Tilt Angle of Input Light	deg	0	
Max. Optical Power (CW)	mW	500 (Polarized Light & Proper Alignment Is Necessary)	
Operating Temperature	℃	-5 to +70	
Storage Temperature	℃	-40 to +85	

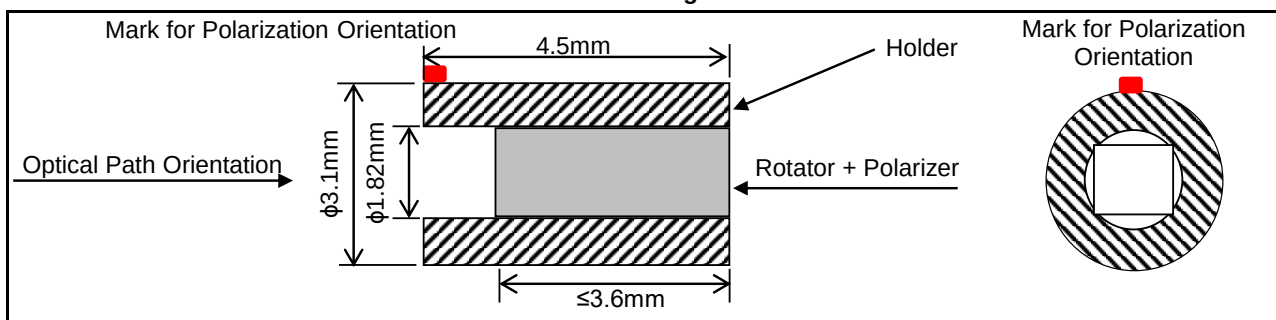
*The material must be RoHS compliant.

Package Dimensions

Single Stage



Dual Stage



Ordering Information

FSI-①-②-③-④

①: Wavelength
2000 - 2000nm
S - Specify

②: Stage
S - Single Stage
D - Dual Stage

④: Package Size
110 - Ø2.9×3.9
168 - Ø3.1×4.5
S - Specify

③: Optical Path Orientation
F - Forward (as indicated above)
B - Backward

High Power Faraday Rotator 10xxnm 10W 3mm

Spec Review No.:SR2401034A

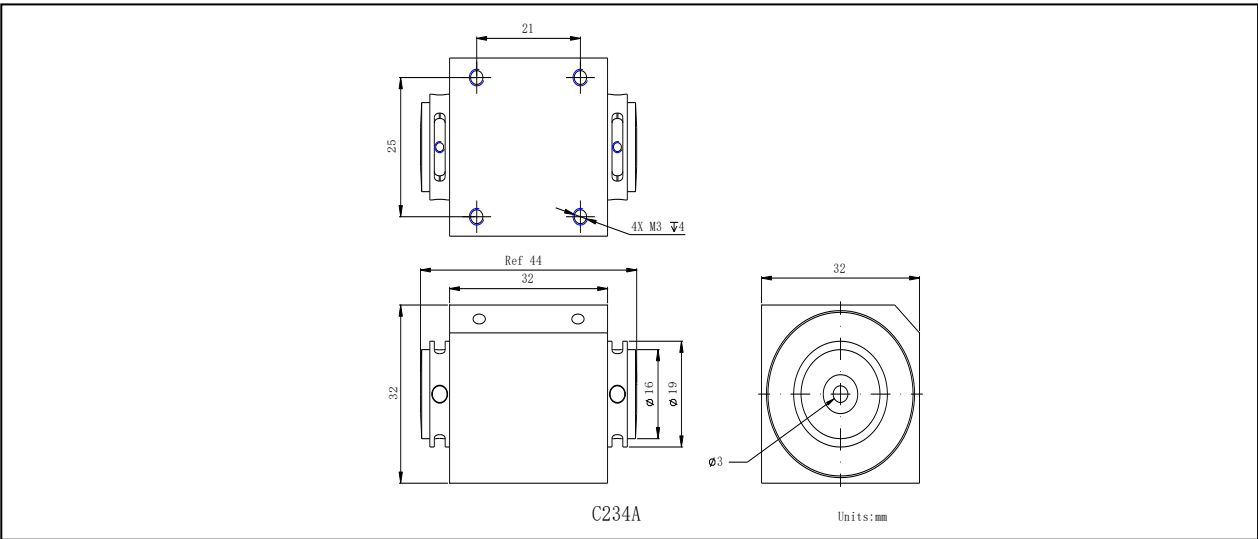
Date: Jan. 18, 2024

Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	1064 or Specify
Operating Wavelength Range	nm	± 5 or Specify
Nominal Rotation Angle (λ_c)	deg	45 for Single Pass,90 for Dual Pass
Rotation Angle Tolerance at 23°C, λ_c	deg	± 2.0
Typ. Insertion Loss at 23°C, λ_c	dB	0.1
Max. Insertion Loss	dB	0.15
Min. Extinction Ratio	dB	28
Max. Optical Power (measured @ BD 1.0mm)	W	10 or Specify
Damage Threshold at 10ns	J/cm ²	10
Operating Temperature	°C	10 to +50
Storage Temperature (Non-Condensing)	°C	0 to +75

*The direction of polarization rotates to the right
*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPFR-①①-②②②-③③-④④-⑤-⑥-⑦-⑧

①①: Wavelength
06 - 1064nm
S - Specify

②②②: Package Type
C234A - Type C234A

③③: Handling Power
10 - 10W
S - Specify

④④: Clear Aperture
30 - Dia. 3mm

⑤: Polarization type
S - Polarization Sensitive

⑥: Wavelength Range
5 - $\lambda \pm 5$ nm
S - Specify

⑦: Input Polarization
H - Horizontal
V - Vertical
45 - 45°
S - Specify

⑧: Output Polarization
H - Horizontal
V - Vertical
45 - 45°
S - Specify

High Power Faraday Rotator 10xxnm 150W Clear Aperture 5mm

Spec Review No.: SR2201014A

Date: Jan. 14, 2022

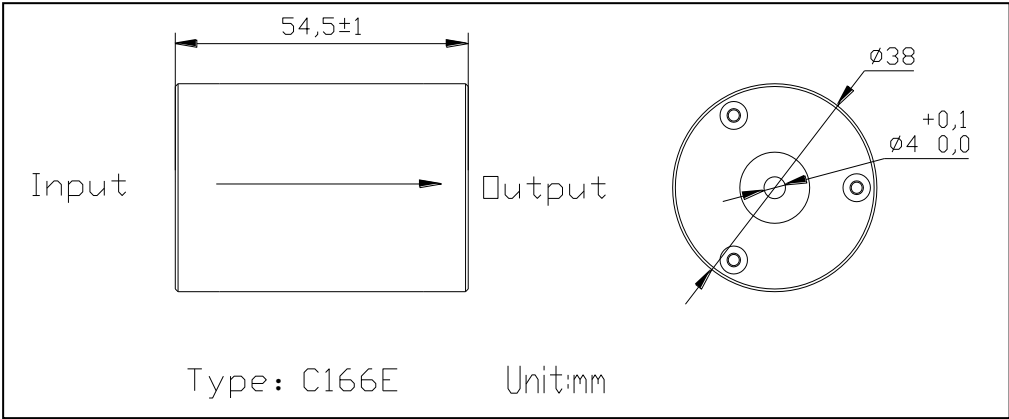
Specifications

Parameters	Unit	Values
Operating Wavelength Range	nm	1030±5
Rotation Angle,CWL	deg	45±2
Typ. Insertion Loss at 23℃, λc	dB	0.1
Max. Insertion Loss	dB	0.15
Min. Extinction Ratio	dB	33
Max. Optical Power (Measured @ BD 1.5mm)	W	150
Pulse Conditions	-	1J/cm²@8ps;10J/cm²@10ns
Operating Temperature (Non-Condensing)	℃	-5 to +50
Storage Temperature (Non-Condensing)	℃	-20 to +75

* The product has dustproof window ,for special requirements please contact Optizone.

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPFR-①①-②②-③③-④④-⑤

①①: Wavelength

03 - 1030nm

SS - Specify

③③: Handling Power

150 - 150W

SS - Specify

⑤: Structure Type

45 - 45 deg

②②: Package Type

C166E - Type C166E

④④: Clear Aperture

40 - Dia. 4.0mm

SS - Specify

High Power Faraday Rotator 10xxnm 500W Clear Aperture 10mm

Spec Review No.: SR2404056A

Date: Apr. 28, 2024

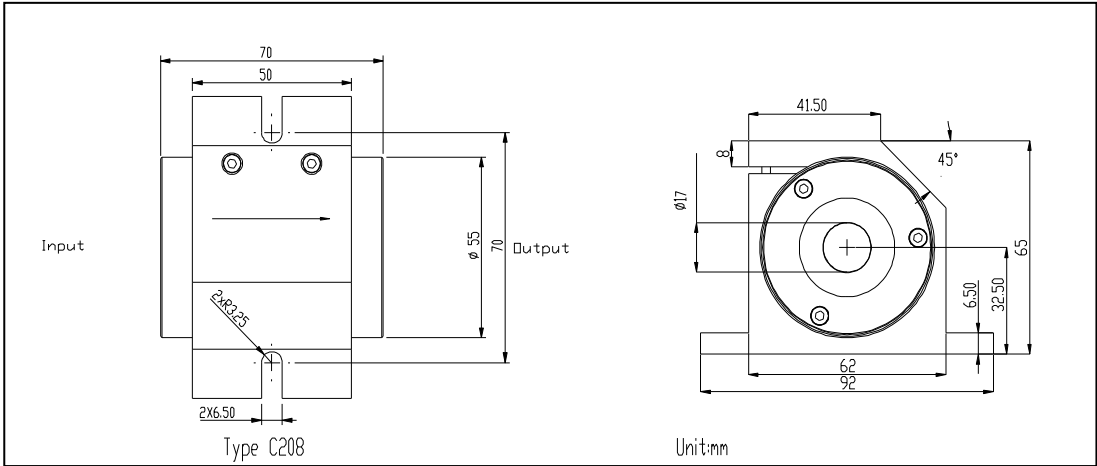
Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	1030
Operating Wavelength Range	nm	± 5
Nominal Rotation Angle (λ_c)	dB	45 for Single Pass,90 for Dual Pass
Rotation Angle Tolerance at 23°C, λ_c	dB	± 2.0
Typ. Insertion Loss at 23°C, λ_c	dB	0.1
Max. Insertion Loss	mm	0.15
Min. Extinction Ratio	dB	30
Max. Average Power (Measured @ BD 4.5mm)	W	150 or Specify
Pulse Conditions	J/cm ²	1J/cm ² @8ps;10J/cm ² @10ns
Operating Temperature	°C	-5 to +50
Storage Temperature	°C	-20 to +75

* The direction of polarization rotates to the right

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPFR-①①-②②-③③-④④-⑤

①①: Wavelength

03 - 1030nm

S - Specify

③③: Handling Power

10 - 10W

S - Specify

⑤: Polarization type

N - Narrow

B - Broad band

②②: Package Type

C208A - Type C208A

④④: Clear Aperture

80 - Dia. 8.0mm

S - Specify

Air-cooled Fiber Endcap 4xx~15xxnm 100~500W

Spec Review No.: SR1811035C

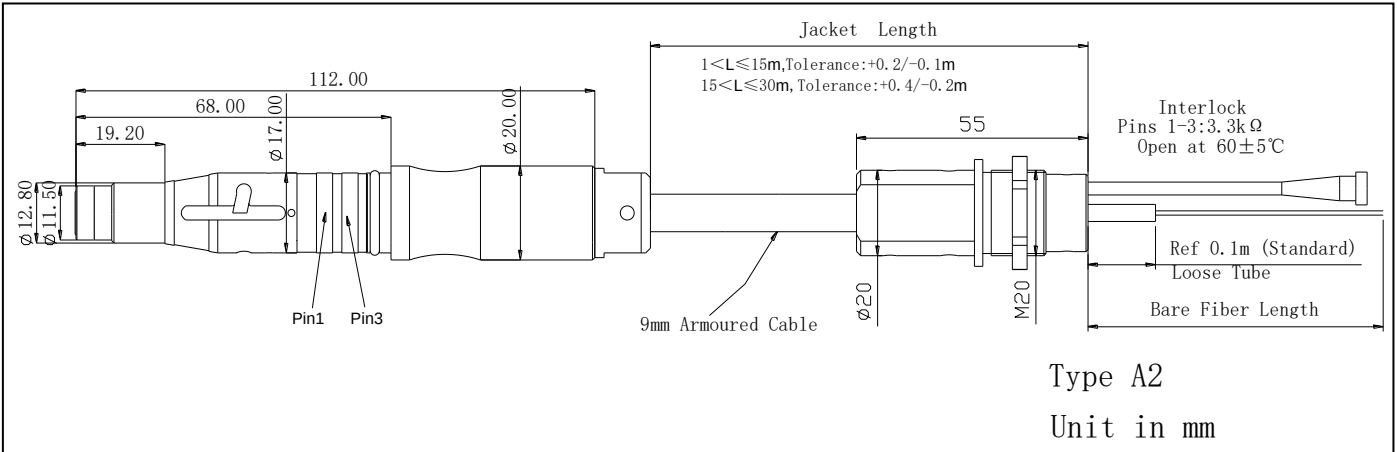
Date: Jul. 11, 2019

Specifications

Parameters	Unit	Values	
Center Wavelength	nm	1064, 1080 or Specify	
Operating Wavelength Range	nm	±20	
Typ. Transmission Ratio	-	99%	
Min. Transmission Ratio	-	98%	
Max. Handling Power (CW)	W	200, 300, 400, 500 or Specify	
Loss Power Handling Capability	-	Max. 100W for 10s Max. 50W for 1 min Max. 10W Continuously	With external cooler. Max. 150W for 10s Max. 100W for 1min Max. 50W Continuously
Max. Peak Power	KW	10	
Nominal Beam Pointing Accuracy	deg	≤1	
Min. Beam Ellipticity	-	0.92	
Max. Tensile Load	N	5	
Outer Package Material	-	Stainless Steel / Aluminum / Copper	
Operating Temperature	°C	10 to +50	
Storage Temperature	°C	-40 to +85	

*The material must be RoHS&REACH compliant.

Package Dimensions



*The actual dimensions may be different from above drawing due to different requirements, please see shipment data sheet.

Ordering Information

AFE-①①-②②-③③-④④-⑤⑤-⑥⑥-⑦⑦-⑧⑧

①①: Wavelength

06 - 1064nm

08 - 1080nm

SS - Specify

②②: Connector Type

QB - QBH Compatible

SS - Specify

③③: Handling Power

200 - 200W

300 - 300W

400 - 400W

500 - 500W

S - Specify

④④: Fiber Type

01 - Nufern LMA GDF-20/400-M NA0.065

11 - Coractive DCF-UN 50/400 NA0.12

33 - Liekki Passive-14/250DC,NA0.07

03 - Nufern BD-S100/120/360 NA0.22

SS - Specify

⑤⑤: Jacket Length

06 - 6m 9mm Armoured Cable

SS - Specify

⑥⑥: Bare Fiber Length

01 - 1 m

1.5 - 1.5m

SS - Specify

⑦⑦: Package Type

A2 - φ20

SS - Specify

⑧⑧: Protection Cap Type

01 - Aluminum Without Window

02 - Aluminum With Window For SM Fiber

03 - Aluminum With Window For MM Fiber

SS - Specify

Air-cooled Fiber Endcap 19xx~20xxnm 500W

Spec Review No.: SR2310010A

Date: Oct. 8, 2023

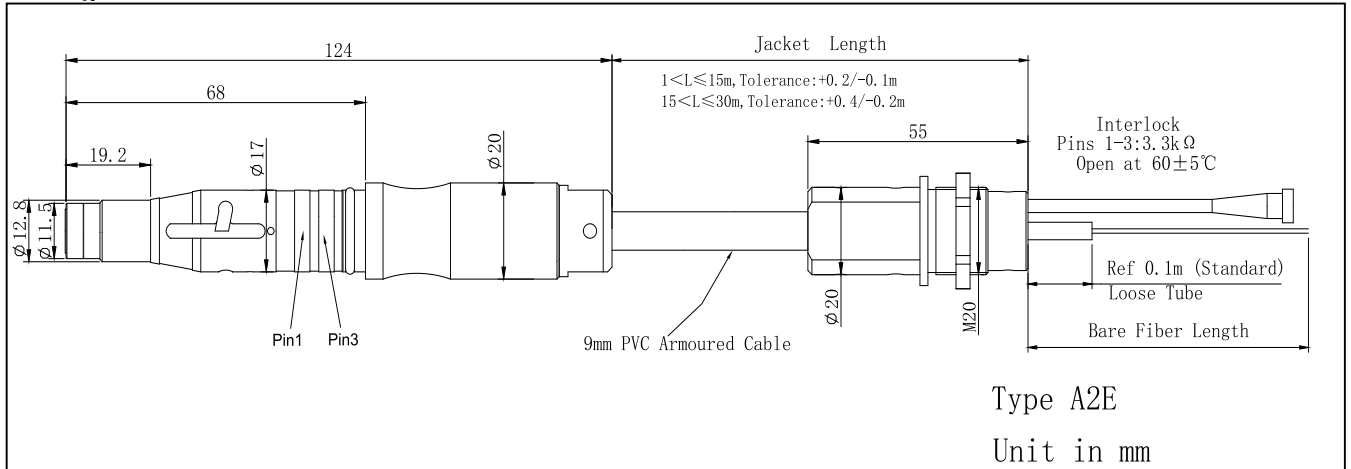
Specifications

Parameters	Unit	Values	
Center Wavelength	nm	1940 or Specify	
Operating Wavelength Range	nm	±20	
Typ. Transmission Ratio(Inner Core)	-	99%	
Min. Transmission Ratio(Inner Core)	-	98%	
Max. Handling Power (CW)	W	200, 300, 400, 500 or Specify	
Loss Power Handling Capability	-	Max. 100W for 10s Max. 50W for 1 min Max. 10W Continuously	With external cooler. Max. 150W for 10s Max. 100W for 1min Max. 50W Continuously
Max. Peak Power	KW	10	
Nominal Beam Pointing Accuracy	deg	≤1	
Min. Beam Ellipticity	-	0.92	
Window Surface Quality (Scratch / Dig)	-	10/5	
Max. Tensile Load	N	5	
Outer Package Material	-	Stainless Steel / Aluminum / Copper	
Operating Temperature	℃	10 to +50	
Storage Temperature	℃	-30 to +75	
Fiber Length ≤15 m	-	The Fiber Length Tolerance is -10cm	
15m<Fiber Length ≤30m	-	The Fiber Length Tolerance is -20cm	

* The actual dimensions may be different from above drawing due to different requirements, please see shipment data sheet.

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

AFE-①①-②②-③③-④④-⑤⑤-⑥⑥-⑦⑦-⑧⑧--⑨⑨

①①: Wavelength
19 - 1940nm
SS - Specify

④④: Fiber Type
38 - Nufern BD-G25/400-11FA
SS - Specify

⑦⑦: Package Type
A2E - Type A2E
SS - Specify

②②: Connector Type
QB - QBH Compatible
SS - Specify

⑤⑤: Jacket Length
1.5 - 1.5m φ9mm PVC Armoured Cable
SS - Specify

⑧⑧: Protection Cap Type
01 - Aluminum Without Window
02 - Aluminum With Window For SM Fiber
03 - Aluminum With Window For MM Fiber
SS - Specify

③③: Handling Power
200 - 200W
300 - 300W
400 - 400W
500 - 500W
S - Specify

⑥⑥: Bare Fiber Length
1.5 - 1.5m
02 - 2m
SS - Specify

⑨⑨: Cladding Power Stripping
Y - Yes

Fiber Optical Cable 5xx~10xxnm 500~2000W

Spec Review No.: SR2204021A

Date: Apr. 21, 2022

Specifications

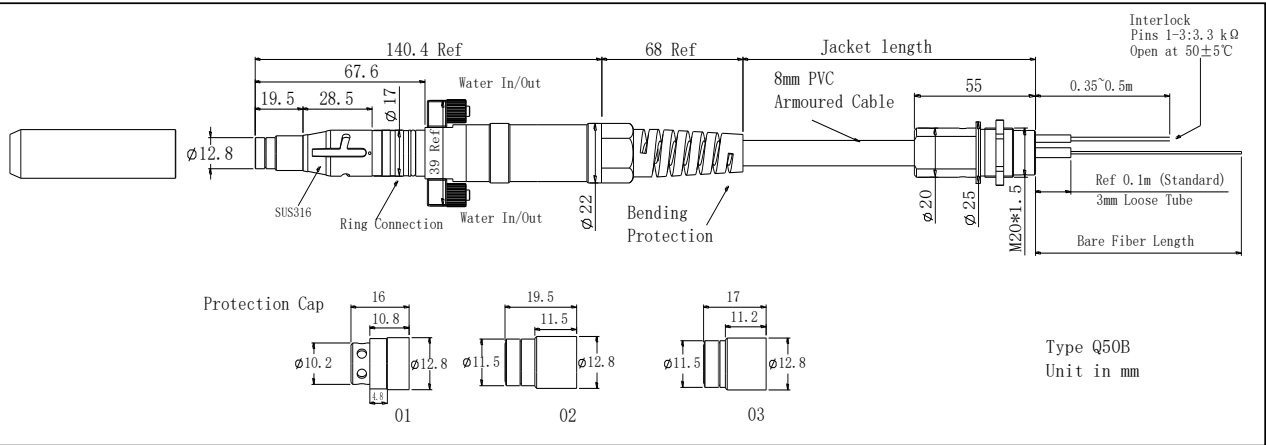
Parameters	Unit	Values
Operating Wavelength	nm	1050~1110 (Nominal Center Wavelength 1080 nm)
Typ. Transmission Ratio (Inner Core)	-	99%
Min. Transmission Ratio (Inner Core)	-	98%
Max. Handling Power (CW)	W	1000, 2000, 3000 or Specify
Pulse Power	-	Max. 10KW @10ms Max. 50KW @1ms Max. 1MW @50ns
Loss Power Handling Capability	-	1KW for 10 min 500W Continuously
Nominal Beam Pointing Accuracy	deg	1
Min. Beam Ellipticity	-	0.92
Max. Fiber Tensile Load	N	5
Package Material	-	Stainless Steel / Aluminum / Copper
Operating Temperature	°C	+10 to +50
Storage Temperature	°C	-10 to +75
Max. Water Pressure	Bar	8
Flow of Water	L/min	1.5-3
Fiber Length ≤15 m	-	The Fiber Length Tolerance is -10cm
15m<Fiber Length ≤30m	-	The Fiber Length Tolerance is -20cm
Jacket Length≤15m	-	The Jacket Length Tolerance is +0.2/-0.1m
15m<Jacket Length ≤30m	-	The Jacket Length Tolerance is +0.4/-0.2m

*The actual dimensions may be different from above drawing due to different requirements, please see shipment data sheet.

*For FOC without window, the transmission @635nm is around 80%(Inner Core).

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

FOC-①①-②②-③④④-⑤⑤-⑥⑥-⑦⑧⑧-⑨⑨

①①: Wavelength

08 - 1080nm

SS - Specify

②②: Connector Type

QB - QBH Compatible

③③: Handling Power

1000 - 1000W

2000 - 2000W

3000 - 3000W

S - Specify

④④: Fiber Type

01 - Nufern GDF-20/400-M NA0.065

88 - BrightCore 50/400 NA0.12

SS - Specify

⑤⑤: Jacket Length

10 - 10m 8mm PVC Armoured Cable

12 - 12m 8mm PVC Armoured Cable

SS - Specify

⑥⑥: Bare Fiber Length With Loose Tube

1.5 - 1.5m

02 - 2m

SS - Specify

⑦⑦: Package Type

Q50B - Type Q50B

⑧⑧: Protection Cap Type

01 - Aluminum Without Window

02 - Aluminum With Window For SM Fiber

03 - Aluminum With Window For MM Fiber

SS - Specify

⑨⑨: Water Pipe Length

03 - 3×2m

NN - None

SS - Specify

Fiber Optical Cable 10xxnm 4000W

Spec Review No.: SR2208019A

Date: Aug. 5, 2022

Specifications

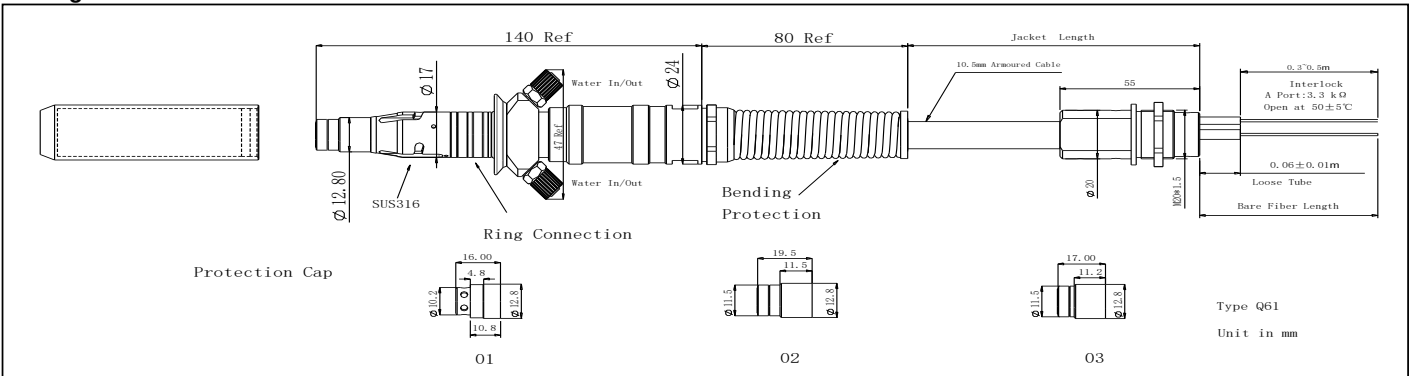
Parameters	Unit	Values
Operating Wavelength	nm	900~1000 (Nominal Center Wavelength 950nm) 1050~1110 (Nominal Center Wavelength 1080 nm)
Typ. Transmission Ratio(Inner Core)	-	99%
Min. Transmission Ratio (Inner Core)	-	98%
Max. Handling Power (CW)	W	1000, 2000, 4000, 6000 , 8000 or Specify
Pulse Power	-	Max. 10KW @10ms Max. 50KW @1ms Max. 1MW @50ns
Loss Power Handling Capability	-	1KW for 10 min 500W Continuously
Nominal Beam Pointing Accuracy	deg	1
Min. Beam Ellipticity	-	0.92
Max. Fiber Tensile Load	N	5
Package Material	-	Stainless Steel / Aluminum / Copper
Operating Temperature	°C	+10 to +50
Storage Temperature	°C	-10 to +75
Max. Water Pressure	Bar	8
Flow of Water	L/min	1.5-3
Fiber Length ≤15 m	-	The Fiber Length Tolerance is -10cm
15m<Fiber Length ≤30m	-	The Fiber Length Tolerance is -20cm
Jacket Length ≤15m	-	The Jacket Length Tolerance is +0.2/-0.1m
15m<Jacket Length ≤30m	-	The Jacket Length Tolerance is +0.4/-0.2m

*The actual dimensions may be different from above drawing due to different requirements,please see shipment data sheet.

*For FOC without window, the transmission @635nm is around 80%(Inner Core).

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

FOC-①①-②②-③④④-⑤⑤-⑥⑥-⑦⑧⑧-⑨⑨

①①: Wavelength

95 - 950nm

06 - 1064nm

08 - 1080nm

SS - Specify

②②: Connector Type

QB - QBH Compatible

③③: Handling Power

1000 - 1000W

2000 - 2000W

4000 - 4000W

6000 - 6000W

S - Specify

④④: Fiber Type

78 - BrightCore 50/70/360 NA0.22

81 - BrightCore 100/120/360 NA0.22

SS - Specify

⑤⑤: Jacket Length

10 - 10m 10.5mm PVC Armoured Cable

15 - 15m 10.5mm PVC Armoured Cable

SS - Specify

⑥⑥: Bare Fiber Length With Loose Tube

1.5 - 1.5m

02 - 2m

SS - Specify

⑦⑦: Package Type

Q61 - Type Q61

⑧⑧: Protection Cap Type

01 - Aluminum Without Window

02 - Aluminum With Window For SM Fiber

03 - Aluminum With Window For MM Fiber

SS - Specify

⑨⑨: Water Pipe Length

03 - 3m×2pcs

NN - None

SS - Specify

Fiber Optical Cable(Indirect water cooling) 10xxnm 6000W

Spec Review No.: SR2011013B

Date: Apr. 18, 2024

Specifications

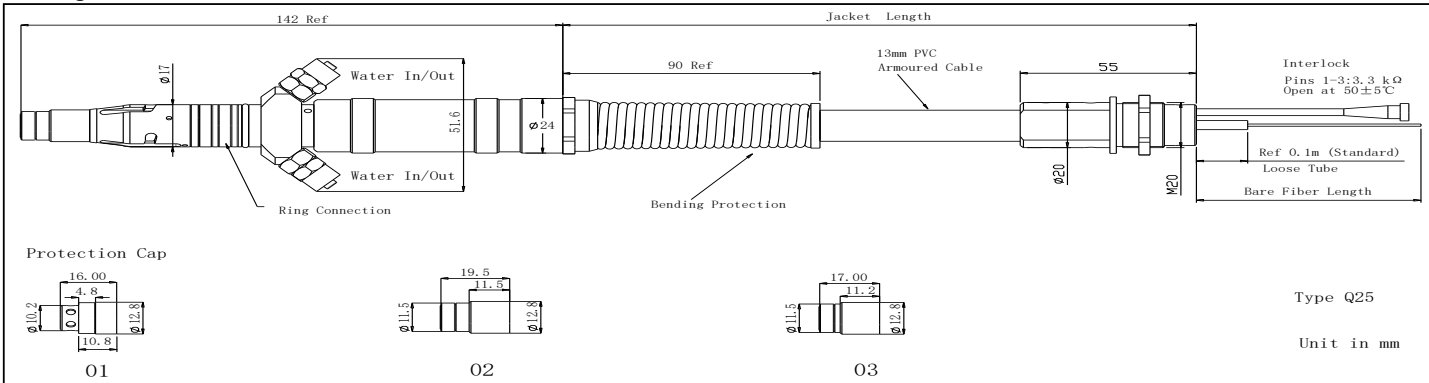
Parameters	Unit	Values
Operating Wavelength	nm	900~1000 (Nominal Center Wavelength 950nm) 1050~1110 (Nominal Center Wavelength 1080 nm)
Typ. Transmission Ratio (Inner Core)	-	99%
Min. Transmission Ratio (Inner Core)	-	98%
Max. Handling Power (CW)	W	2000 or Specify
Pulse Power	-	Max. 10KW @10ms Max. 50KW @1ms Max. 1MW @50ns
Loss Power Handling Capability	-	1KW for 10 min 500W Continuously
Nominal Beam Pointing Accuracy	deg	1
Min. Beam Ellipticity	-	0.92
Max. Fiber Tensile Load	N	5
Package Material	-	Stainless Steel / Aluminum / Copper
Operating Temperature	°C	+10 to +50
Storage Temperature	°C	-10 to +75
Max. Water Pressure	Bar	8
Flow of Water	L/min	1.5-3
Fiber Length ≤15 m	-	The Fiber Length Tolerance is -10cm
15m<Fiber Length ≤30m	-	The Fiber Length Tolerance is -20cm
Jacket Length≤15m	-	The Jacket Length Tolerance is +0.2/-0.1m
15m<Jacket Length ≤30m	-	The Jacket Length Tolerance is +0.4/-0.2m

*The actual dimensions may be different from above drawing due to different requirements, please see shipment data sheet.

*For FOC without window, the transmission @635nm is around 80%.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

FOC-①①-②②-③③-④④-⑤⑤-⑥⑥-⑦⑦-⑧⑧-⑨⑨

①①: Wavelength

95 - 950nm

08 - 1080nm

SS - Specify

④④: Fiber Type

01 - Nufern GDF-20/400-M NA0.065

11 - Coractive DCF-UN 50/400 NA0.12

SS - Specify

⑦: Package Type

Q25 - Type Q25

⑧⑧: Protection Cap Type

01 - Aluminum Without Window

02 - Aluminum With Window For SM Fiber

03 - Aluminum With Window For MM Fiber

SS - Specify

②②: Connector Type

OB - OBH Compatible

③: Handling Power

2000 - 2000W

S - Specify

⑤⑤: Jacket Length

15 - 15m 13mm PVC Armoured Cable

SS - Specify

⑥⑥: Bare Fiber Length With Loose Tube

02 - 2m

SS - Specify

⑨⑨: Water Pipe Length

05 - 5m×2pcs

NN - None

SS - Specify

Fiber Optical Cable 19xx~20xxnm 100~200W

Spec Review No.: SR2501002A

Date: Jan. 2, 2025

Specifications

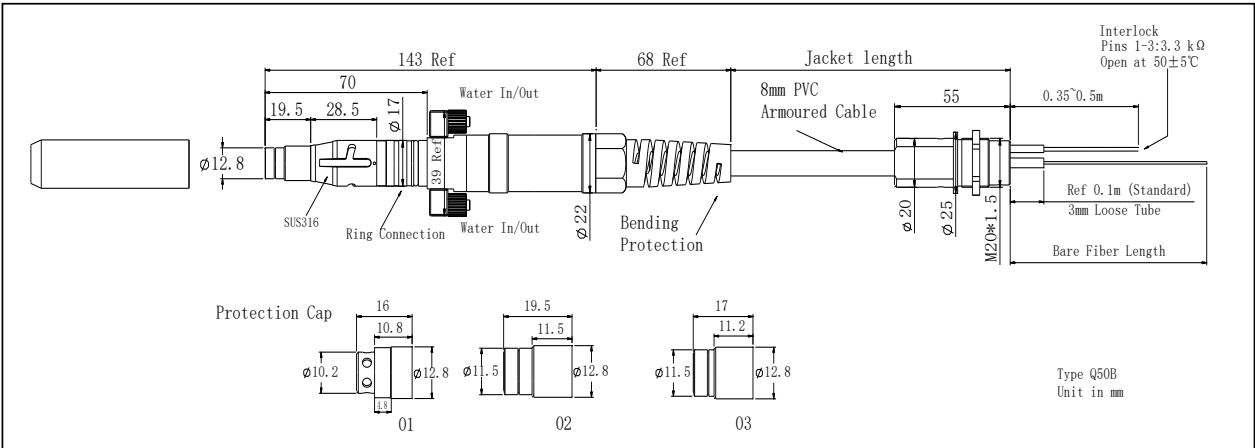
Parameters	Unit	Values
Operating Wavelength	nm	1950±50
Typ. Transmission Ratio (Inner Core)	-	99%
Min. Transmission Ratio (Inner Core)	-	98%
Max. Handling Power (CW)	W	1000 or Specify
Loss Power Handling Capability	-	150W Continuously
Nominal Beam Pointing Accuracy	deg	1
Min. Beam Ellipticity	-	0.95
Max. Fiber Tensile Load	N	5
Package Material	-	Stainless Steel / Aluminum / Copper
Operating Temperature	°C	+10 to +50
Storage Temperature	°C	-10 to +75
Max. Water Pressure	Bar	8
Flow of Water	L/min	1.5-3
Fiber Length ≤15 m	-	The Fiber Length Tolerance is -10cm
15m<Fiber Length ≤30m	-	The Fiber Length Tolerance is -20cm
Jacket Length≤15m	-	The Jacket Length Tolerance is +0.2/-0.1m
15m<Jacket Length ≤30m	-	The Jacket Length Tolerance is +0.4/-0.2m

*The actual dimensions may be different from above drawing due to different requirements, please see shipment data sheet.

*For FOC without window, the transmission @635nm is around 80%(Inner Core).

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

FOC-①①-②②-③-④④-⑤⑤-⑥⑥-⑦-⑧⑧-⑨⑨

①①: Wavelength

19 - 1950nm

SS - Specify

②②: Connector Type

QB - QBH Compatible

③: Handling Power

1000 - 1000W

S - Specify

④④: Fiber Type

75 - Nufern LMA-GDF-25/400 NA0.09

SS - Specify

⑤⑤: Jacket Length

1.2 - 1.2m 8mm PVC Armoured Cable

10 - 10m 8mm PVC Armoured Cable

SS - Specify

⑥⑥: Bare Fiber Length With Loose Tube

01 - 1m

1.5 - 1.5m

SS - Specify

⑦: Package Type

Q50B - Type Q50B

⑧⑧: Protection Cap Type

01 - Aluminum Without Window

02 - Aluminum With Window For SM Fiber

03 - Aluminum With Window For MM Fiber

SS - Specify

⑨⑨: Water Pipe Length

03 - 3m×2pcs

NN - None

SS - Specify

Fiber Optical Cable - Type P1 (Indirect water cooling) 10xxnm 40000W

Spec Review No.: CAT-05-090A

Specifications

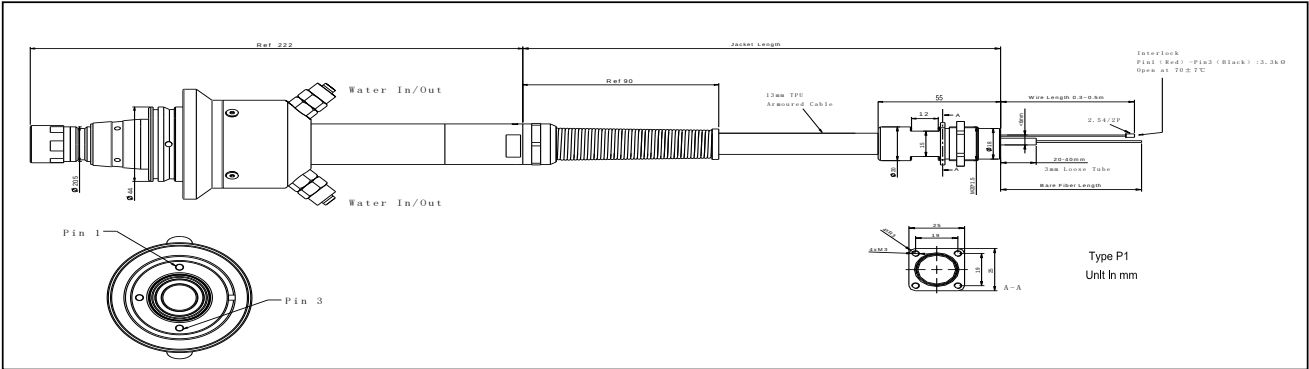
Parameters	Unit	Values
Operating Wavelength	nm	1050~1110 (Nominal Center Wavelength 1080 nm)
Typ. Transmission Ratio (Inner Core)	-	99%
Min. Transmission Ratio (Inner Core)	-	98%
Max. Handling Power (CW)	W	20000,30000,40000 or Specify
Pulse Power	-	Max. 10kW @10ms Max. 50kW @1ms Max. 1MW @50ns
Loss Power Handling Capability	-	1.5kW for 10 min (Forward) 1kW Continuously (Backward)
Nominal Beam Pointing Accuracy	deg	1
Min. Beam Ellipticity	-	0.92
Max. Fiber Tensile Load	N	5
Package Material	-	Stainless Steel / Aluminum / Copper
Operating Temperature	°C	+10 to +50
Storage Temperature	°C	-30 to +75
Max. Water Pressure	Bar	8
Flow of Water	L/min	≥4
Fiber Length ≤15 m	-	The Fiber Length Tolerance is -10cm
15m<Fiber Length ≤30m	-	The Fiber Length Tolerance is -20cm
Jacket Length≤15m	-	The Jacket Length Tolerance is +0.2/-0.1m
15m<Jacket Length ≤30m	-	The Jacket Length Tolerance is +0.4/-0.2m

* The actual dimensions may be different from above drawing due to different requirements, please see shipment data sheet.

* For FOC without window, the transmission @635nm is around 80%.

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

FOC-①①-②②-③-④④-⑤⑤-⑥⑥-⑦-⑧⑧-⑨⑨

①①: Wavelength
08 - 1080nm
SS - Specify

②②: Connector Type
Q+ - Q+ Compatible

③: Handling Power
20K - 20kW
30K - 30kW
40K - 40kW
S - Specify

④④: Fiber Type
163-YOFC SI 100/120/360-22/540(DC) NA0.22
131-YOFC SI 100/120/360-15/540(DC) NA0.15
SS - Specify

⑤⑤: Jacket Length
35 - 35m φ13mm TPU Armoured Cable
SS - Specify

⑥⑥: Bare Fiber Length With Loose Tube
1.5 - 1.5m
SS - Specify

⑦: Package Type
P1 - Type P1

⑧⑧: Protection Cap Type
01 - Aluminum Without Window
SS - Specify

⑨⑨: Water Pipe Length
05 - 5×2m
NN - None
SS - Specify

Ultra-fast Laser Cable Connector 5xxnm 100W

Spec Review No.: SE2407005A

Date:Aug.19, 2024

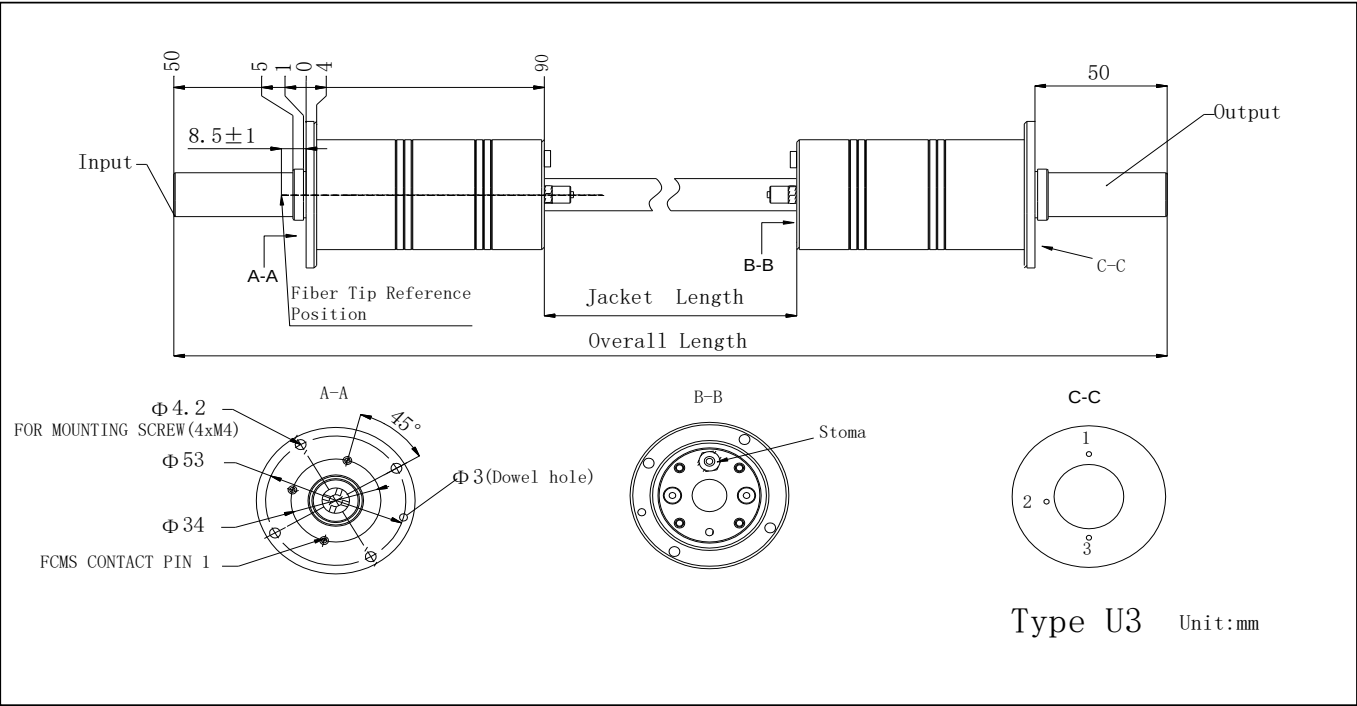
Specifications

Parameters	Unit	Values
Operating Wavelength	nm	530
Operating Wavelength Range	nm	±20
Min. Transmission Ratio(Design Assurance)	-	70%
Max. Handling Power (CW)	W	20
Nominal Beam Diameter Ratio(Design Assurance)	mm	1.3±0.2@ over 5~1000mm from Output Surface
Nominal Mode Field Diameter	µm	8.6±1
Max. Water Pressure	Bar	4
Bending Radius	mm	> 250
Max. Tensile Load	N	10
Operating Temperature	°C	+10 to +50
Storage Temperature	°C	-10 to +75
Fiber Type	-	Micro Structured Hollow Core Fiber
Beam Parameter Acceptance	-	Single Mode Laser Beam
Materials	-	Stainless steel ,Aluminum alloy ,Copper

*The actual dimensions may be different from above drawing due to different requirements, please see shipment data sheet.

*The material must be ROHS compliant

Package Dimensions



Ordering Information

ULC-①①-②②-③③-④④-⑤⑤-⑥⑥-⑦⑦

①①: Wavelength

53 - 530nm

SS - Specify

③③: Handling Power

20 - 20W

SS - Specify

⑤⑤: Jacket Length

03 - 3m 13mm Armoured Cable

SS - Specify

②②: Connector Type

UL - UL Compatible

④④: Fiber Type

SS - Specify

⑥⑥: Package Type

U3 - Type U3

⑦⑦: Cooling Method

01 - Water cooling

02 - Air cooling

Ultra-fast Laser Cable Connector 10xxnm 200W

Spec Review No.: SR2006006C

Date:Aug. 20, 2024

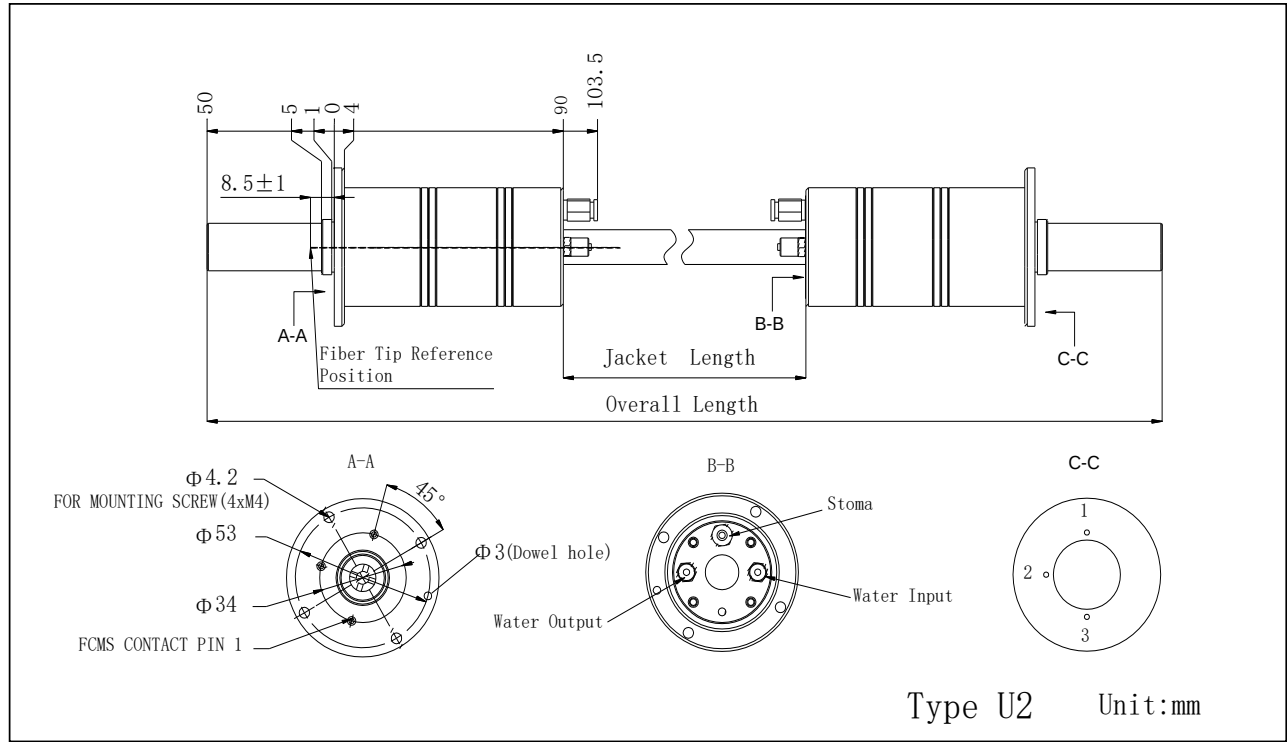
Specifications

Parameters	Unit	Values
Operating Wavelength	nm	1060
Operating Wavelength Range	nm	±20
Min. Transmission Ratio	-	88%±2%@10m Fiber Length
Max. Average Laser Power	W	40
Min. Pulse Energy@800kHz	μJ	50
Pulse Width	fs	400
Nominal Mode Field Diameter	μm	38±2
Flow of Water	L/min	1.5~3
Max. Water Pressure	Bar	4
Bending Radius	mm	> 250
Max. Tensile Load	N	10
Operating Temperature	°C	+10 to +50
Storage Temperature	°C	-10 to +75
Fiber Type	-	Micro Structured Hollow Core Fiber
Beam Parameter Acceptance	-	Single Mode Laser Beam
Materials	-	Stainless steel ,Aluminum alloy ,Copper

*The actual dimensions may be different from above drawing due to different requirements, please see shipment data sheet.

*The material must be ROHS compliant

Package Dimensions



Ordering Information

ULC-①①-②②-③③-④④-⑤⑤-⑥⑥-⑦⑦

①①: Wavelength

03 - 1030nm

06 - 1060nm

SS - Specify

③③: Handling Power

20 - 20W

40 - 40W

SS - Specify

⑤⑤: Jacket Length

10 - 10m 13mm Armoured Cable

SS - Specify

②②: Connector Type

UL - UL Compatible

④④: Fiber Type

01 - YSL HC-PCF-01

SS - Specify

⑥⑥: Package Type

U2 - Type U2

⑦⑦: Cooling Method

1 - Water Cooling

MMLarge Beam Collimator 9xxnm 100W

Spec Review No.: SR2307010A

Date: Jul. 4, 2023

Specifications

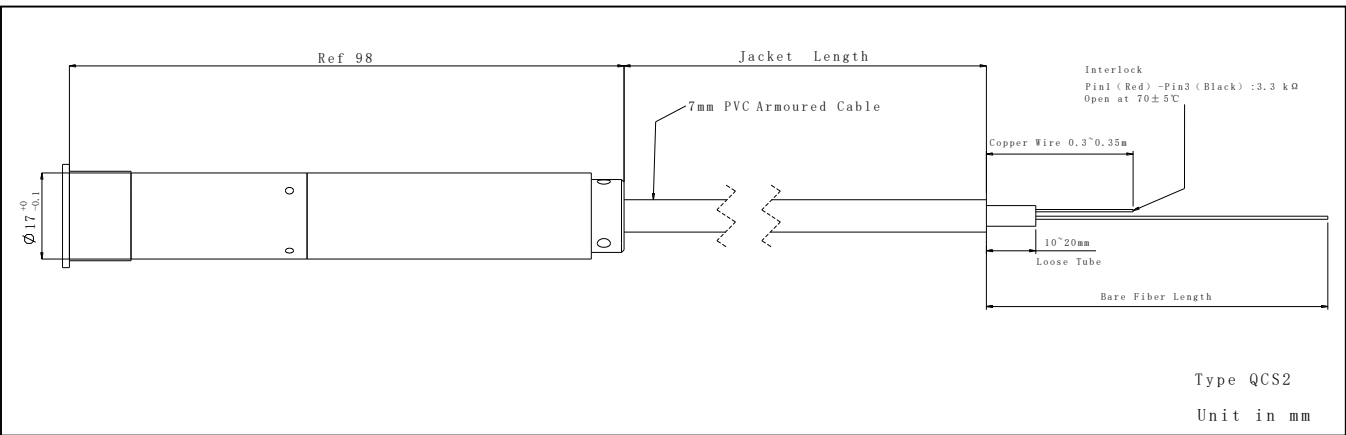
Parameters	Unit	Values
Operating Wavelength	nm	976
Operating Wavelength Range	nm	±20
Nominal Beam Diameter(@1/e ² ,NA0.22)	mm	6.0±0.5@ over 5mm from Output Surface
Typ. Transmission(Inner Core)	-	98%
Min. Transmission(Inner Core)	-	97%
Min. Transmission Ratio@635nm	-	50%(Based on Reference w/o AR Coating)
Min. Return Loss	dB	20
Max. Optical Power (CW)	W	100 or Specify
Loss Power Handling Capability	-	NA
Nominal Beam Pointing Accuracy	deg	1
Max. Beam Divergence Angle (Full Angle)	mrad	30
Min. Beam Ellipticity	-	0.92
Max. Tensile Load	N	5
Outer Package Material	-	Stainless Steel / Aluminum
Operating Temperature	°C	5 to +40
Storage Temperature	°C	-40 to +85

*The actual dimensions may be different from above drawing due to different requirements,please see shipment data sheet.

*Thermistor is embedded & the wire integrated in armoured cable.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

MMLBC-①①-②②-③④-⑤⑤-⑥⑥-⑦⑦-⑧⑧⑧⑧-⑨

①①: Wavelength
6397 - 635/976nm
SS - Specify

④: Handling Power
100 - 100W
SS - Specify

⑦⑦: Bare Fiber Length
1.5 - 1.5m
SS - Specify

②②: Beam Diameter
60 - 6.0mm
SS - Specify

⑤⑤: Fiber Type
10 - YH 400/440-26/730
SS - Specify

⑧⑧⑧⑧: Body Type
QCS2 - φ17

③: Fiber Jacket
N - 7mm PVC Armoured Cable
SS - Specify

⑥⑥: Jacket Length
02 - 2.0m
SS - Specify

⑨: Cladding Power Stripping
N - None

Large Beam Collimator 10xxnm 5~100W

Spec Review No.: SR2209049A

Date:Sep. 23, 2022

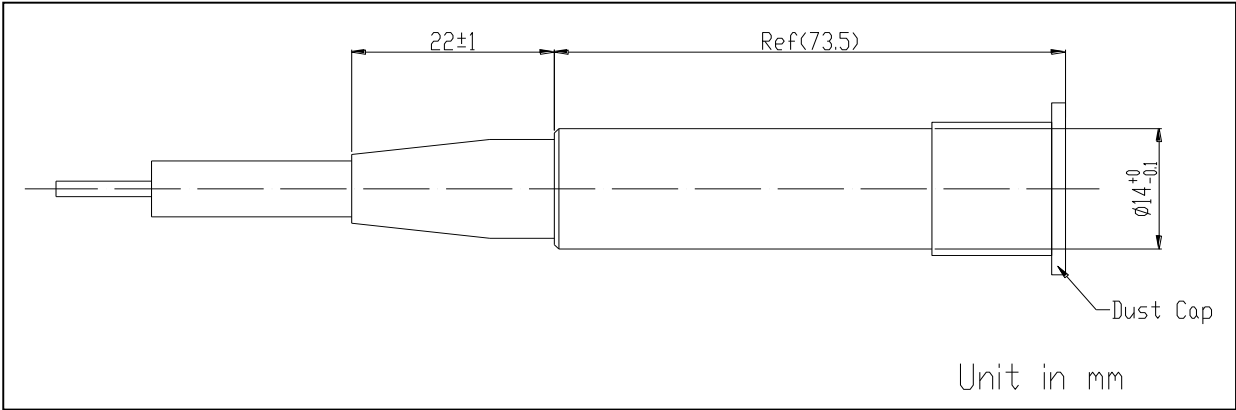
Specifications

Parameters	Unit	Values
Operating Wavelength	nm	1064
Operating Wavelength Range	nm	±20
Nominal Beam Diameter@M2<1.3	mm	4.5+/-0.3@ over 5~1000mm from Output Surface
Typ. Transmission	-	95%
Min. Transmission	-	92%
Min. Return Loss	dB	50
Max. PDL	dB	0.05
Max. Optical Power (CW)	W	20 or Specify
Nominal Beam Pointing Accuracy	deg	0.5
Max. Beam Divergence Angle (Full Angle)	mrاد	0.6
Min. Ellipticity	-	0.92
Max. Tensile Load	N	5
Outer Package Material	-	Stainless Steel / Aluminum
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

*The actual dimensions may be different from above drawing due to different requirements,please see shipment data sheet.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

LBC-①①-②②-③-④④-⑤-⑥-⑦

①①: Wavelength
6306 - 635nm&1064nm
SS - Specify

②②: Beam Diameter
45 -4.5mm
SS - Specify

③: Fiber Jacket
B - 6mm Armoured Cable
S - Specify

④④: Handling Power
20 - 20W
SS - Specify

⑤: Fiber Type
38 - Nufern GDF 10/125-M NA0.075
S - Specify

⑥: Fiber Length
1.4 - 1.4m 1.2m Armoured Cable
0.1m Loose Tube
0.1m Fiber
S - Specify

⑦: Package Material
3 - Stainless Steel / Aluminum

High Power Polarization Maintaining Large Beam Collimator 10xxnm 5~100W

Spec Review No.: SR2305087A

Date: May. 25, 2023

Specifications

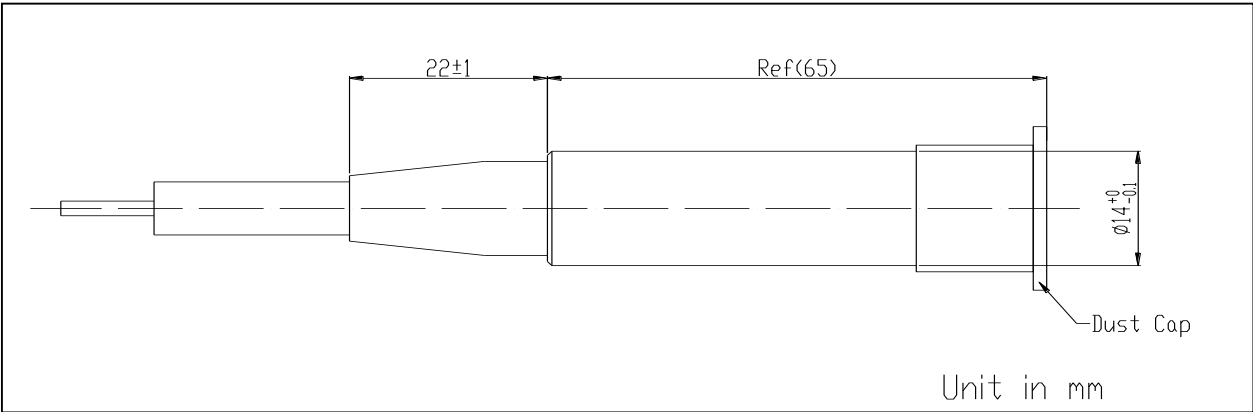
Parameters	Unit	Values
Operating Wavelength	nm	1030
Operating Wavelength Range	nm	±20
Nominal Beam Diameter (@M ² <1.2)	mm	1.5+/-0.5 @ over 5~300mm from Output Surface
Typ. Transmission	-	95%
Min. Transmission	-	92%
Min. Return Loss	dB	50
Typ. Extinction Ratio (Only For Inner Core)	dB	18
Min. Extinction Ratio (Only For Inner Core)	dB	16
Max. Optical Power (CW)	W	65 or Specify
Nominal Beam Pointing Accuracy	deg	0.5
Max Beam Divergence Angle (Full Angle)	mrad	1.2
Min. Ellipticity	-	0.92
Fiber Max. Tensile Load	N	5
Outer Package Material		Stainless Steel /Aluminium
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

*For special pulse applications,pls discuss with Optizone Technology.

* The material must be RoHS compliant.

*The actual dimensions may be different from above drawing due to different requirements,please see shipment data sheet.

Package Dimensions



Ordering Information

PMLBC-①①-②②-③-④④-⑤-⑥-⑦

①①: Wavelength

03 - 1030nm

SS - Specify

②②: Beam Diameter

15 - 1.5mm

SS - Specify

③: Fiber Jacket

L - 0.9mm Loose Tube

S - Specify

④④: Handling Power

65 -65W

SS - Specify

⑤: Fiber Type

21 - PLMA-GDF-20/130 NA0.08

S - Specify

⑥: Fiber Length

1 - 1m

0.5m Bare Fiber+0.5m Loose Tube

S - Specify

⑦: Package Material

3 - Stainless Steel /Aluminium

Large Beam Collimator 10xnm 500W

Spec Review No.: SR2106040C

Date: Nov. 14, 2023

Specifications

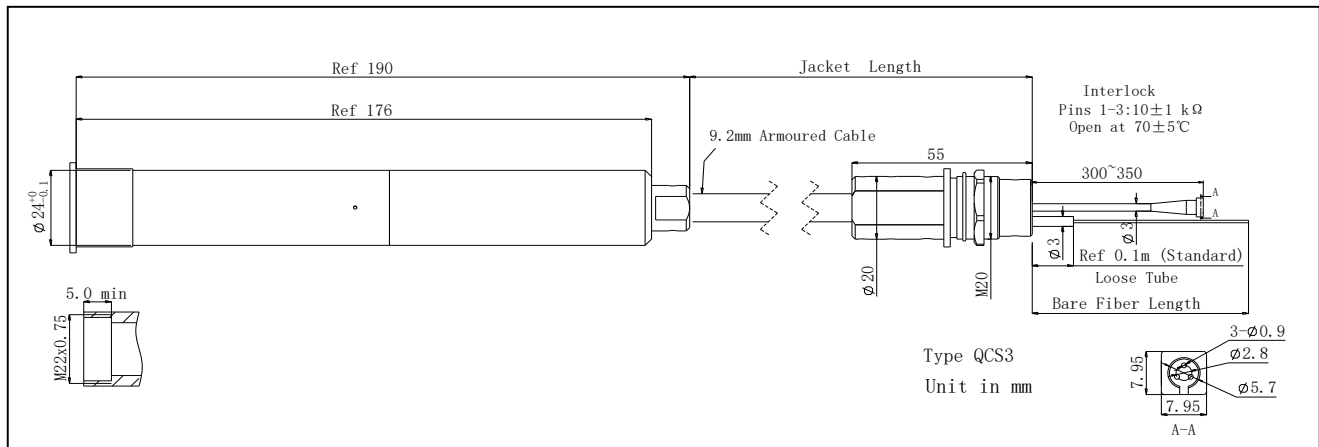
Parameters	Unit	Values
Operating Wavelength	nm	1064
Operating Wavelength Range	nm	±20
Nominal Beam Diameter(@1/e ² ,M ² <1.1)	mm	6.0±0.5@ over 5~1000mm from Output Surface
Typ. Transmission(Inner Core)	-	98%
Min. Transmission(Inner Core)	-	97%
Min. Transmission Ratio@660nm	-	70%(Based on Reference w/o AR Coating)
Min. Return Loss	dB	50
Max. Optical Power (CW)	W	450 or Specify
Loss Power Handling Capability	-	Max. 10W Continuously
Nominal Beam Pointing Accuracy	deg	0.5
Max. Beam Divergence Angle (Full Angle)	mrاد	0.5
Max. Beam Centrality	mm	0.8(Test by CCD & Aperture Stop)
Min. Beam Ellipticity	-	0.92
Max. Tensile Load	N	5
Outer Package Material	-	Stainless Steel / Aluminum
Operating Temperature	℃	5 to +40
Storage Temperature	℃	-40 to +85

*The actual dimensions may be different from above drawing due to different requirements, please see shipment data sheet.

*Thermistor is embeded & the wire integrated in armoured cable.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

LBC-①①-②②-③-④-⑤⑤-⑥⑥-⑦⑦-⑧⑧⑧⑧-⑨

①①: Wavelength

6606 - 660/1064nm

SS - Specify

④: Handling Power

450 - 450W

S - Specify

⑦⑦: Bare Fiber Length

1.5 - 1.5m

SS - Specify

②②: Beam Diameter

60 - 6.0mm

SS - Specify

⑤⑤:Fiber Type

53 - Nufern LMA-GDF-14/250-HP-M,NA0.07

SS - Specify

⑧⑧⑧⑧:Body Type

QCS3 - $\phi 24$

⑨:Cladding Power Stripping

Y - Yes

N - No

③:Fiber Jacket

G - 9.2mm Armoured Cable

S - Specify

⑥⑥: Jacket Length

05 - 5m

SS - Specify

Large Beam Collimator 10xxnm 600W

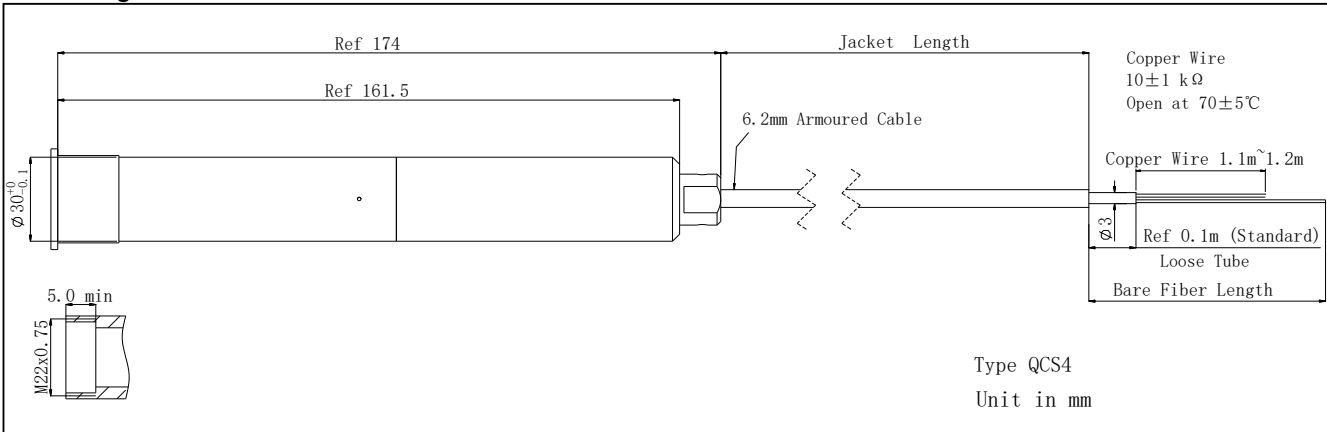
Spec Review No.: SR2401042A

Date: Jan. 19, 2024

Specifications

Parameters	Unit	Values
Operating Wavelength	nm	1064
Operating Wavelength Range	nm	±20
Nominal Beam Diameter(@1/e ² ,M ² <1.1)	mm	5.0±0.5@ over 5~1000mm from Output Surface
Typ. Transmission	-	98%
Min. Transmission	-	97%
Min. Transmission Ratio(Red Light)	-	50%(Based on Reference w/o AR Coating)
Min. Return Loss	dB	50
Max. Optical Power (CW)	W	500 or Specify
Loss Power Handling Capability		Max. 10W Continuously
Nominal Beam Pointing Accuracy	deg	0.5
Max. Beam Divergence Angle (Full Angle)	mrاد	0.5
Max. Beam Centrality	mm	0.8(Test by CCD & Aperture Stop)
Min. Beam Ellipticity	-	0.92
Max. Tensile Load	N	5
Outer Package Material	-	Stainless Steel / Aluminum
Operating Temperature	°C	5 to +40
Storage Temperature	°C	-40 to +85

Package Dimensions



*The actual dimensions may be different from above drawing due to different requirements, please see shipment data sheet.

*Thermistor is embedded & the wire integrated in armoured cable.

*The material must be RoHS compliant.

Ordering Information

LBC-①①-②②-③④-⑤⑤-⑥⑥-⑦⑦-⑧⑧⑧⑧-⑨

①①: Wavelength

06 - 1064nm

SS - Specify

④: Handling Power

500 - 500W

S - Specify

⑦⑦: Bare Fiber Length

1.5 - 1.5m

SS - Specify

②②: Beam Diameter

50 - 5.0mm

SS - Specify

⑤⑤: Fiber Type

53 - Nufern LMA-GDF-14/250-HP-M, NA0.07

SS - Specify

⑧⑧⑧⑧: Body Type

QCS4 - ø30

③: Fiber Jacket

B - 6.2mm Armoured Cable

S - Specify

⑥⑥: Jacket Length

05 - 5m

SS - Specify

⑨: Cladding Power Stripping

Y - Yes

N - No

Large Beam Collimator 10xxnm 700W

Spec Review No.: SR2310030C

Date: Nov. 22, 2023

Specifications

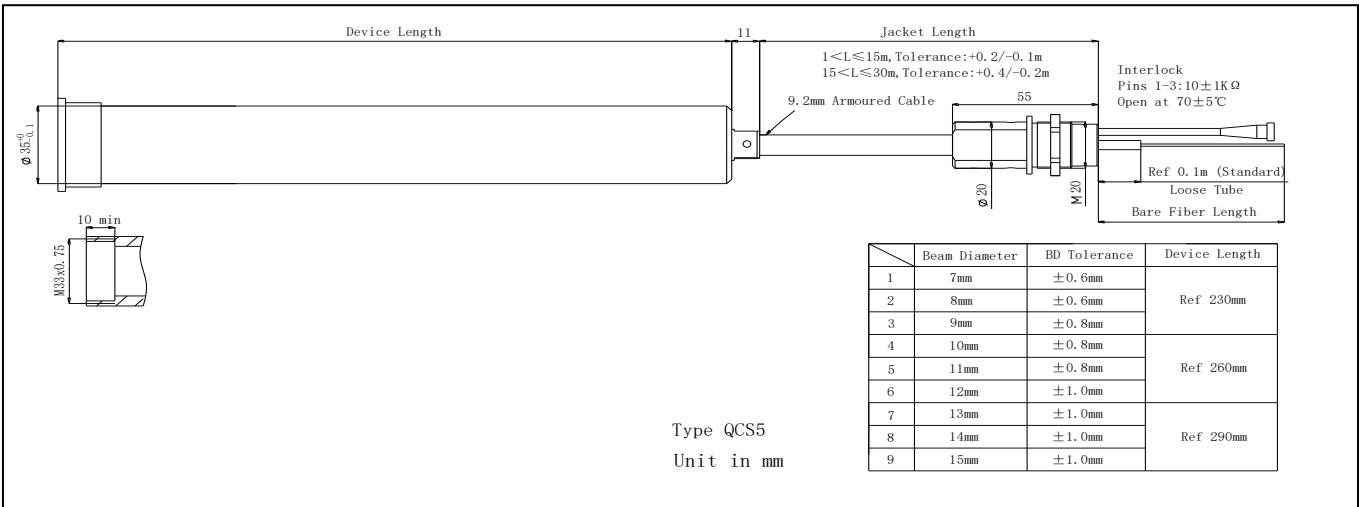
Parameters	Unit	Values
Operating Wavelength	nm	1080
Operating Wavelength Range	nm	±10
Nominal Beam Diameter(@1/e ² ,M ² <1.1)	mm	12.0±1.0@ over 5~1000mm from Output Surface
Typ. Transmission	-	98%
Min. Transmission	-	97%
Min. Return Loss	dB	50
Max. Optical Power (CW)	W	450 or Specify
Loss Power Handling Capability	-	Max. 10W Continuously
Nominal Beam Pointing Accuracy	deg	0.5
Max Beam Divergence Angle (Full Angle)	mrad	0.3
Max. Beam Centrality	mm	0.8
Min. Beam Ellipticity	-	0.92
Max. Tensile Load	N	5
Outer Package Material	-	Stainless Steel / Aluminum
Operating Temperature	°C	5 to +40
Storage Temperature	°C	-40 to +85

Package Dimensions

*The actual dimensions may be different from above drawing due to different requirements,please see shipment data sheet.

*Thermistor is embeded & the wire integrated in armoured cable.

*The material must be RoHS compliant.



Ordering Information

LBC-①①-②②-③③-④④-⑤⑤-⑥⑥-⑦⑦-⑧⑧⑧⑧-⑨⑨

①①: Wavelength

6308 - 635/1080nm

SS - Specify

④④: Handling Power

450 - 450W

S - Specify

⑦⑦: Bare Fiber Length

1.5 - 1.5m

SS - Specify

②②: Beam Diameter

120 - 12.0mm

SS - Specify

⑤⑤: Fiber Type

40 - Liekki Passive 14/250 DC NA0.07

SS - Specify

⑧⑧⑧⑧: Body Type

QCS5 - Φ35

③③: Fiber Jacket

G - 9.2mm Armoured Cable

⑥⑥: Jacket Length

05 - 5.0m

SS - Specify

⑨⑨: Cladding Power

Y - Yes

N - No

Large Beam Collimator 10xxnm 1000W

Spec Review No.: SR2408038A

Date: Aug. 23, 2024

Specifications

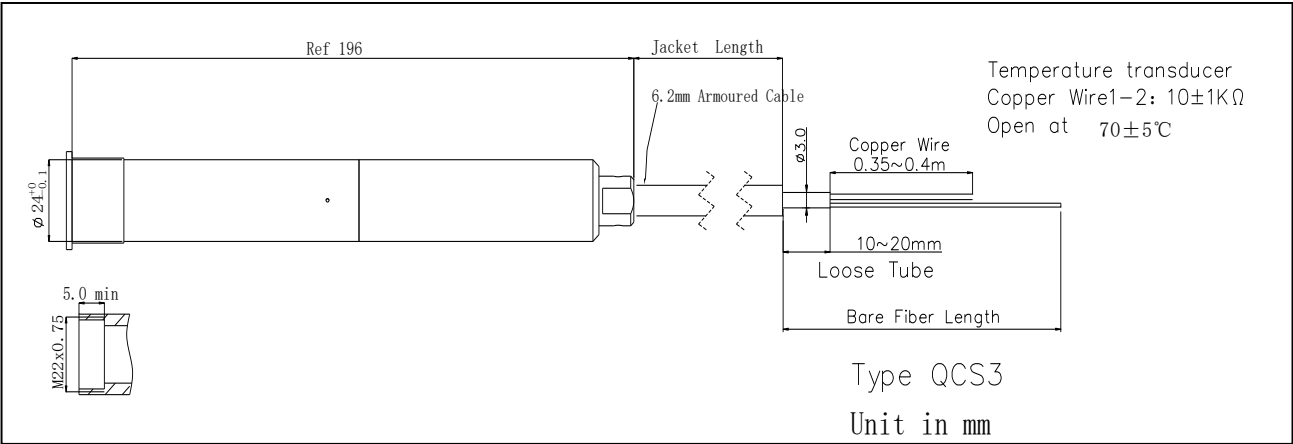
Parameters	Unit	Values
Operating Wavelength	nm	1064
Operating Wavelength Range	nm	±20
Nominal Beam Diameter(@1/e ² ,M ² =<1.3)	mm	8.0±1@ over 5~1000mm from Output Surface
Typ. Transmission(Inner Core)	-	98%
Min. Transmission(Inner Core)	-	97%
Min. Transmission Ratio@660nm	-	70%(Based on Reference w/o AR Coating)
Max. Optical Power (CW)	W	1500 or Specify
Nominal Beam Pointing Accuracy	deg	0.5
Max. Beam Divergence Angle (Full Angle)	mrad	0.3
Max. Beam Centrality	mm	0.8(Test by CCD & Aperture Stop)
Min. Beam Ellipticity	-	0.92
Max. Tensile Load	N	5
Outer Package Material	-	Stainless Steel / Aluminum
Operating Temperature	℃	5 to +40
Storage Temperature	℃	-40 to +85

*The actual dimensions may be different from above drawing due to different requirements,please see shipment data sheet.

*Thermistor is embedded & the wire integrated in armoured cable.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

LBC-①①-②②-③-④-⑤⑤-⑥⑥-⑦⑦-⑧⑧⑧⑧-⑨

①①: Wavelength

6606 - 660/1064nm

SS - Specify

④: Handling Power

1500 - 1500W

S - Specify

⑦⑦: Bare Fiber Length

1.5 - 1.5m

SS - Specify

②②: Beam Diameter

80 - 8mm

SS - Specify

⑤⑤: Fiber Type

83 - YOFC GDF_DC 20/250 NA0.065

SS - Specify

⑧⑧⑧⑧: Body Type

QCS3 - φ24

⑨: Cladding Power Stripping

N - No

③: Fiber Jacket

B - 6.2mm Armoured Cable

S - Specify

⑥⑥: Jacket Length

2.2 - 2.2m

SS - Specify

Large Beam Collimator 10xxnm 3000W

Spec Review No.:SR2201010B

Date: Jun.17, 2024

Specifications

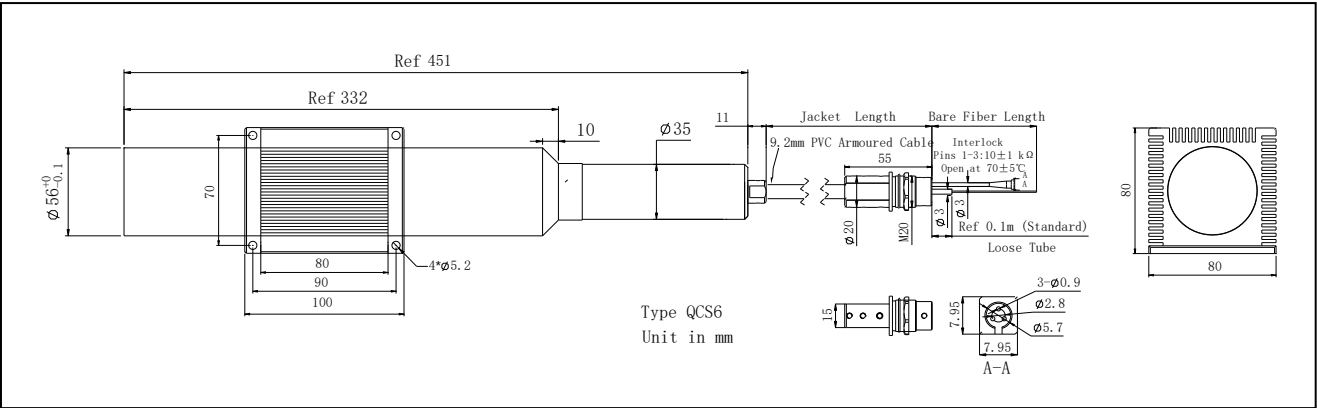
Parameters	Unit	Values
Operating Wavelength	nm	1070
Operating Wavelength Range	nm	±30
Nominal Beam Diameter(@1/e ² ,M ² <1.1)	mm	25.0 ±2.0 @ 5mm~2000mm from Output Surface
Typ. Transmission(Inner Core)	-	98%
Min. Transmission(Inner Core)	-	97%
Min. Transmission Ratio@635nm	-	50%(Based on Reference w/o AR Coating)
Max. Optical Power (CW)	W	2000 or Specify
Nominal Beam Pointing Accuracy	deg	0.5
Max Beam Divergence Angle (Full Angle)	mrاد	0.3
Max. Beam Centrality	mm	0.8(Test by CCD & Aperture slot)
Min. Beam Ellipticity	-	0.93
Max. Tensile Load	N	5
Outer Package Material	-	Stainless Steel / Aluminum
Operating Temperature	°C	+5 to +40
Storage Temperature	°C	-40 to +85

* The actual dimensions may be different from above drawing due to different requirements,please see shipment data sheet.

* Thermistor is embedded & the wire integrated in armoured cable.

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

LBC-①①-②②-③④-⑤⑤-⑥⑥-⑦⑦-⑧⑧⑧⑧-⑨

①①: Wavelength

6307 - 635/1070nm

SS - Specify

④: Handling Power

2000 - 2000W

S - Specify

⑦⑦: Bare Fiber Length

1.5 - 1.5m

SS - Specify

②②: Beam Diameter

250 - 25.0mm

SS - Specify

⑤⑤: Fiber Type

22 - Nufern GDF-20/400-M NA0.065

SS - Specify

⑧⑧⑧⑧: Body Type

QCS6 - Ø56

③: Fiber Jacket

G - 9.2mm PVC Armoured Cable

S - Specify

⑥⑥: Jacket Length

05 - 5.0m

SS - Specify

⑨: Cladding Power Stripping

N - None

Large Beam Collimator 19xxnm 50W

Spec Review No.: SR2003008A

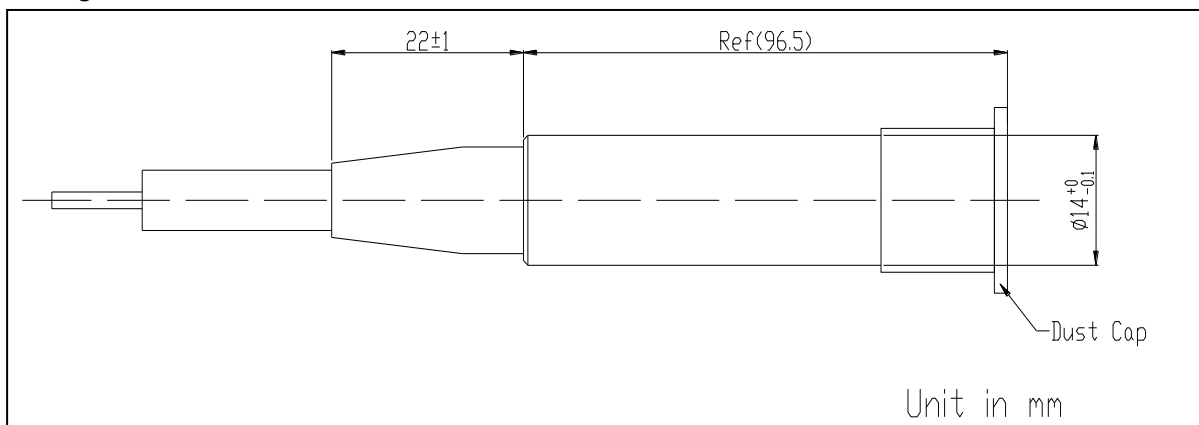
Date: Mar. 2, 2020

Specifications

Parameters	Unit	Values
Operating Wavelength	nm	1930
Operating Wavelength Range	nm	±20
Nominal Beam Diameter	mm	5.0±0.5 @ over 5~500mm from Output Surface
Typ. Transmission	-	95%
Min. Transmission	-	92%
Min. Return Loss	dB	50
Max. PDL	dB	0.05
Max. Optical Power (CW)	W	10 or Specify
Nominal Beam Pointing Accuracy	deg	0.5
Max. Beam Divergence Angle (Full Angle)	mrad	1.0
Min. Beam Ellipticity	-	0.92
Max. Tensile Load	N	5
Outer Package Material	-	Stainless Steel / Aluminum
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

*The material must be RoHS compliant.

Package Dimensions



*The actual dimensions may be different from above drawing due to different requirements, please see shipment data sheet.

Ordering Information

LBC-①①-②②-③-④④-⑤-⑥-⑦

①①: Wavelength

19 - 1930nm

SS - Specify

④④: Handling Power

10 - 10W

SS - Specify

⑥: Fiber Length

2.2 - 2.2m

2.0m Armoured Cable

0.1m Loose Tube

0.1m Bare Fiber

S - Specify

②②: Beam Diameter

50 - 5.0mm

SS - Specify

⑤: Fiber Type

11 - Nufern SM-GDF-10/130-15FA NA0.15

S - Specify

⑦: Package Material

3 - Stainless Steel / Aluminum

③: Fiber Jacket

L - 900um Loose Tube

A - 3mm Armoured Cable

S - Specify

High Power Polarization Maintaining Fiber Collimator 10xxnm 50W

Spec Review No: SR2002012A

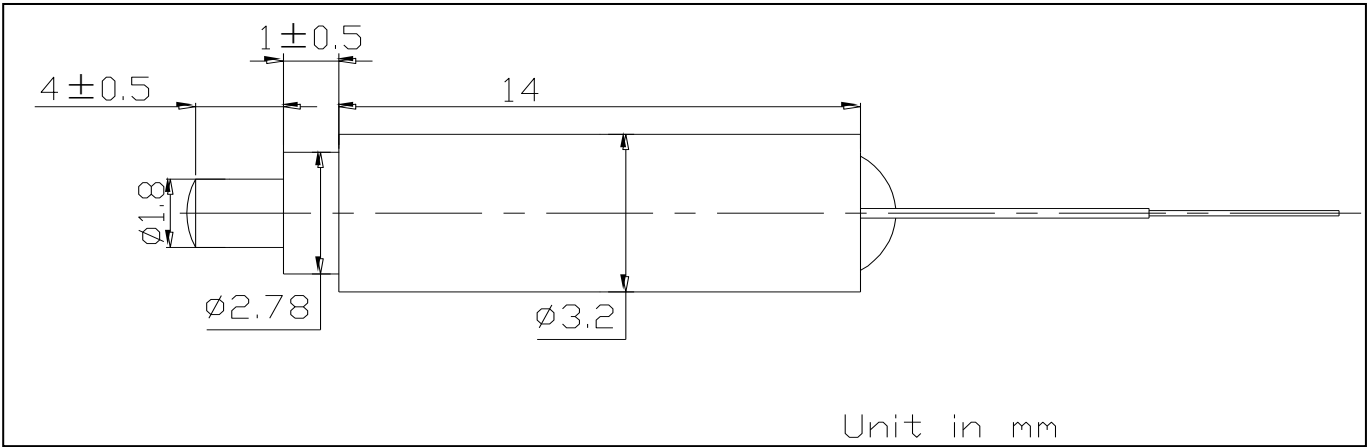
Date: Feb. 26, 2020

Specifications

Parameters	Unit	Values
Center Wavelength	nm	1064
Operating Wavelength Range	nm	±20
Nominal Beam Diameter	mm	0.50±0.06@100mm WD
Working Distance	mm	100 or Specify
Typ. Transmission	-	98%
Min. Transmission	-	95%
Max. Beam Divergence Angle (Full Angle)	mrad	3.5
Min. Beam Ellipticity	-	0.92
Min. Return Loss	dB	50
Min. Extinction Ratio	dB	15
Max. Optical Power (CW)	W	10、30、50 or Specify
Max. Tensile Load	N	5
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMC-①①-②②-③③-④-⑤⑤-⑥-⑦-⑧

①①: Wavelength

06 - 1064nm

SS - Specify

②②: Beam Diameter

05 - 0.5mm

SS - Specify

③③: Working Distance

100 - 100mm

SS - Specify

④: Fiber Jacket

L - 900um Loose Tube

D - Bare Fiber

S - Specify

⑤⑤: Handling Power

30 - 30W

50 - 50W

SS - Specify

⑥: Fiber Type

43 - PLMA-GDF 25/250-M NA0.065

S - Specify

⑦: Fiber Length

1 - 1.0m

S - Specify

⑧: Package Type

2 - Dia 3.2*14

S - Specify

High Power Polarization Maintaining Fiber Collimator 10xxnm 200W

Spec Review No: SR2011016E

Date:Feb. 07, 2025

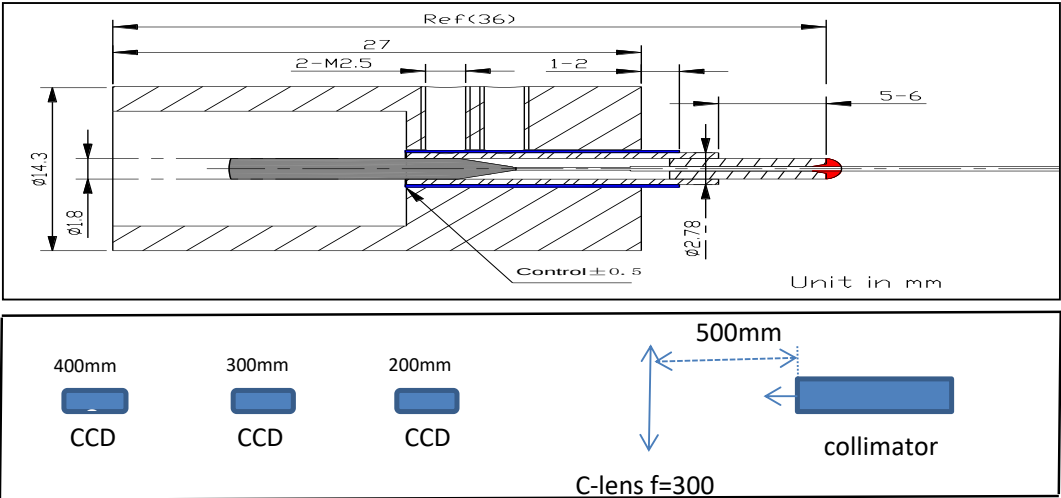
Specifications

Parameters	Unit	Values
Center Wavelength	nm	1064
Operating Wavelength Range	nm	±20
Nominal Beam Diameter	mm	0.75±0.08@150mm WD
EFL of Lens	mm	10
Working Distance	mm	150 or Specify
Typ. Transmission	-	98%
Min. Transmission	-	95%
Nominal Beam Pointing Accuracy	deg	0.5
Max. Beam Pointing Accuracy	deg	1.5
Max. Beam Divergence Angle (Full Angle)	mrad	2.4
Min. Beam Ellipticity	-	0.95@5mm, 150mm, 0.97@600mm, 900mm
M^2 Degradation	-	< 10%
Min. Return Loss	dB	50
Min. Extinction Ratio	dB	15
Max. Optical Power (CW)	W	200 (peak power 100kW (10ns) Max Cladding power: 2W)
Max. Tensile Load	N	5
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

*Parameters of active optical fiber need to be guaranteed by design.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMC-①①-②②-③③-④-⑤⑤⑤-⑥-⑦-⑧

①①: Wavelength

06 - 1064nm

03 - 1030nm

④: Fiber Jacket

D - Bare Fiber

S - Specify

⑥: Fiber Type

72 - Nufern PLMA-YDF-25/250-M NA0.065

S - Specify

②②: Beam Diameter

075 - 0.75mm

SS - Specify

⑤⑤⑤: Handling Power

200 - 200W

SS - Specify

⑦: Fiber Length

1.3 - 1.3m

3.3 - 3.3m

S - Specify

③③: Working Distance

150 - 150mm

SS - Specify

⑧: Package Type

15 - Dia 14.3*27

S - Specify

Polarization Maintaining (1+1)X1 MultiMode Pump &Signal Combiner 10xxnm 10W

Spec Review No.:SR2310052A

Date: Oct. 12, 2023

Specifications

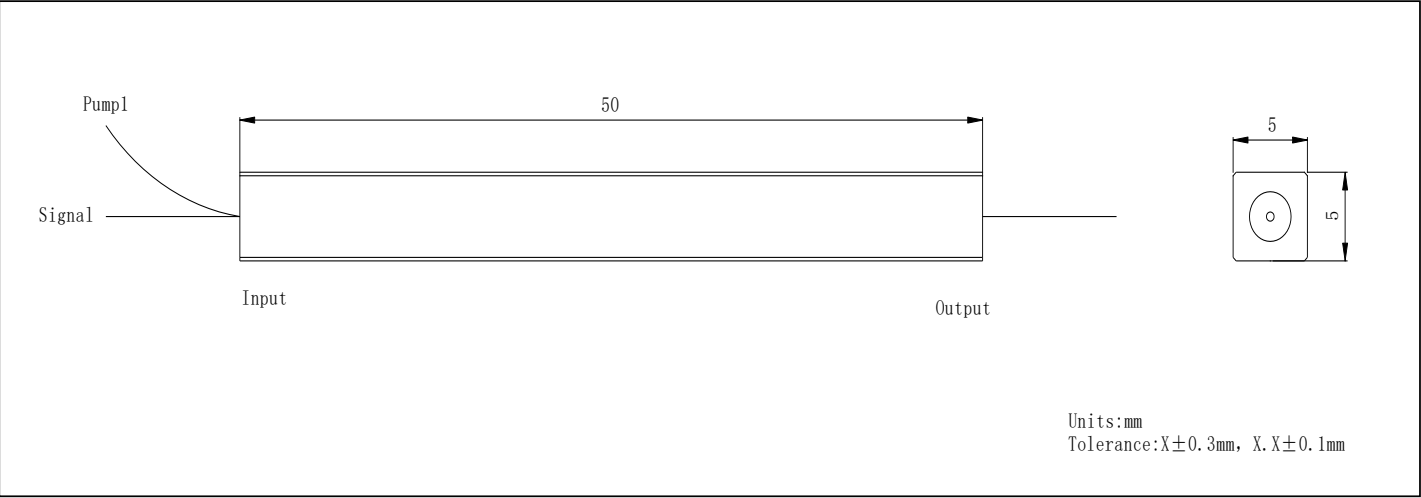
Parameters		Unit	Values
Pump Wavelength		nm	976 (800-1000nm)
Signal Wavelength		nm	1064 (1060-1080nm)
Fiber Type	Pump Fiber	-	NUFERN MM-S105/125-22A
	Signal Input Fiber	-	NUFERN PM-GDF-5/130
	Output Fiber	-	NUFERN PM-GDF-5/130
Min.Pump Efficiency		%	92
Max.Signal Insertion Loss		dB	0.5
Max.Pump Power Handling (Per port)		W	10
Min. PER (Inner Core)		dB	20
Operating Temperature		°C	-5 to 75
Storage Temperature		°C	-40 to 85
Package		mm	50(L) x5(W) x5(H)

*Above specifications are for device without connector.

*Port mark with digital labeling

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMMP-**LC**-(1+1)X1-①-②②②-③③③③-④④-⑤⑤-⑥⑥-⑦-⑧

①: Pump Propagation Direction

F - Forward

S - Specify

④④: Pump Fiber Type

02 - NUFERN MM-S105/125-22A

SS - Specify

⑦: Fiber Length

1.2 - 1.2 m

S - Specify

②②②: Pump Wavelength

976 - 976nm

SSS - Specify

⑤⑤: Signal Fiber Type

06 - NUFERN PM-GDF-5/130

S - Specify

⑧: Package Type

P1 - 50x5x5

SS - Specify

③③③③: Signal Wavelength

1064 - 1064nm

SSSS - Specify

⑥⑥: Output Fiber Type

06 - NUFERN PM-GDF-5/130

SS - Specify

PM(2+1)X1 Multi-Mode Pump Combiner 10xxnm 30W

Spec Review No.:SR2205021A

Date: May. 16, 2022

Specifications

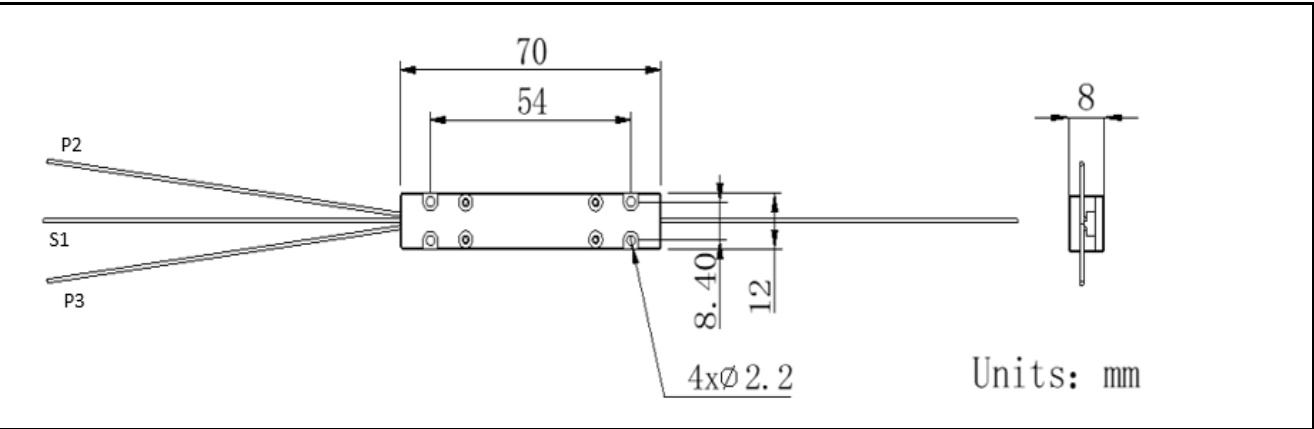
Parameters	unit	Values
Pump Wavelength	nm	976
Signal Wavelength	nm	1064
Pump Fiber	-	MM-S105/125-22A Fiber
Signal Fiber	-	Nufern PLMA-GDF-10/125-M
Output Fiber	-	Nufern PLMA-GDF-10/125-M
Min.Pump Efficiency	%	92
Max.Signal Insertion Loss	dB	0.4
Min.PER (inner core)	dB	20
Max.Pump Power Handling (each port)	W	30
Operating Temperature	°C	-5 to 75
Storage Temperature	°C	-40 to 85
Package	mm	70(L) x12(W) x8(H)

*Above specifications are for device without connector.

*Port mark with digital labeling

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMMP-PC-LC-(2+1)X1-①-②②-③③③-④④-⑤⑤-⑥⑥-⑦-⑧⑧-⑨

①: Pump propagation direction

F- Forward

S - Specify

④④: Pump fiber type

02- MM-S105/125-0.22NA Fiber

SS - Specify

⑦: Fiber Length

0.8- 0.8m

S - Specify

②②: Signal Wavelength

06- 1064nm

SS - Specify

③③: Signal fiber type

04- Nufern PLMA-GDF-10/125-M

SS - Specify

⑧⑧: Pump handling Power

10-10W

S - Specify

③③③: Pump Wavelength

976- 976nm

SSS - Specify

⑥⑥: Output fiber type

04- Nufern PLMA-GDF-10/125-M

SS - Specify

⑨: Package Type

P2- 70(L) x12(W) x8(H)

S - Specify

Polarization Maintaining (2+1)X1 MultiMode Pump & Signal Combiner 10xxnm 70W

Spec Review No:SR2501036A

Date: Jan. 14, 2025

Specifications

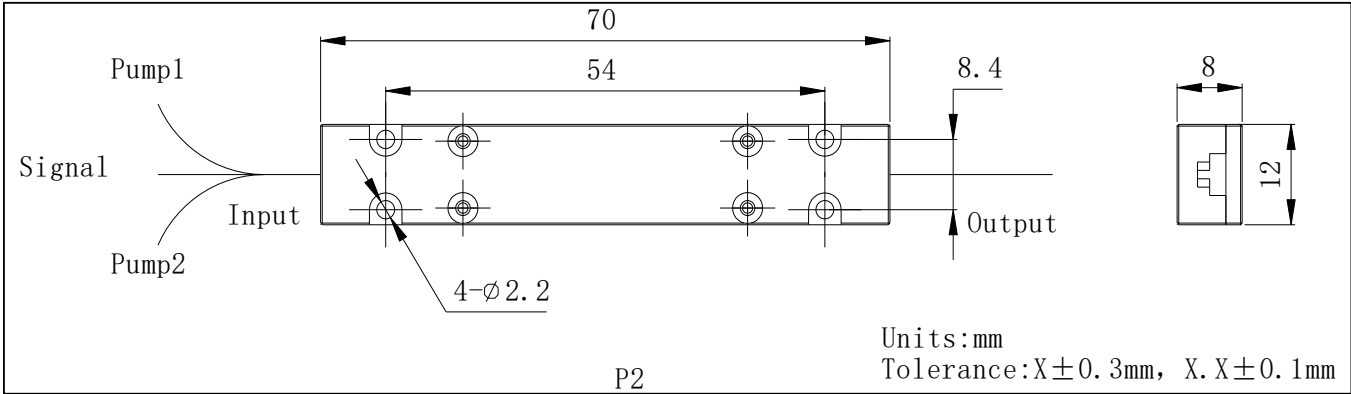
Parameters	Unit	Values
Pump Wavelength	nm	976
Signal Wavelength	nm	1064
Pump Fiber	-	NUFERN MM-S105/125-22A
Signal Fiber	-	Nufern PLMA-GDF-10/125-M
Output Fiber	-	PLMA-GDF-25/250-M
Min. Pump Efficiency	%	92
Max. Signal Insertion Loss	dB	0.7
Min. PER @23°C	dB	18
Pump Power Handling(Each Port)	W	70
Operating Temperature	°C	-5 to 75
Storage Temperature	°C	-40 to 85
Package	mm	70(L)X12(W)X8(H)

*Above specifications are for device without connector.

*Port mark with digital labeling

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMMPC-LC-(2+1)X1-①-②②②-③③③③-④④-⑤⑤-⑥⑥-⑦-⑧

①: Pump Propagation Direction

F- Forward

S - Specify

④④: Pump Fiber Type

02- NUFERN MM-S105/125-22A

SS - Specify

⑦: Fiber Length

1- 1 m

S - Specify

②②②: Pump Wavelength

976 - 976nm

SSS - Specify

⑤⑤: Signal Fiber Type

04 - Nufern PLMA-GDF-10/125-M

SS - Specify

⑧: Package Type

P2- 70X12X8

S - Specify

③③③③: Signal Wavelength

1064 - 1064nm

SSSS - Specify

⑥⑥: Output Fiber Type

13 - PLMA-GDF-25/250-M

SS - Specify

Polarization Maintaining (6+1)X1 Multimode Pump & Signal Combiner 10xxnm 50W

Spec Review No.:SR2306054A

Date:Jun, 16, 2023

Specifications

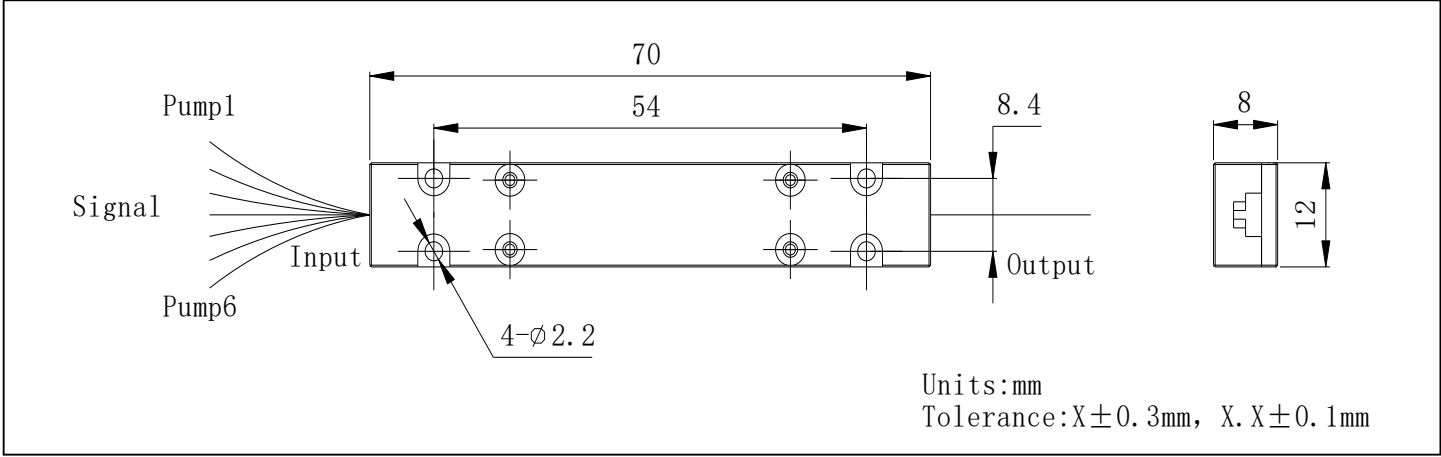
Parameters	Unit	Values
Pump Wavelength	nm	976
Signal Wavelength	nm	1030
Pump Fiber	-	MM-S105/125 NA0.22
Signal Input Fiber	-	PLMA-GDF-15/130 NA0.08
Output Fiber	-	PLMA-GDF-15/130 NA0.08
Min. Pump Efficiency	%	93
Max. Signal Insertion Loss (Input to Output)	dB	0.8
Min. PER	dB	17
Max. Pump Power Handling (Per Port)	W	50
Operating Temperature	°C	-5 to 75
Storage Temperature	°C	-40 to 85
Package	mm	70(L) x12(W) x8(H)

*Above specifications are for device without connector.

*Port mark with digital labeling

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMMPC-LC-(6+1)X1-①-②②②②-③③③-④④-⑤⑤-⑥⑥-⑦-⑧

①: Pump Propagation Direction

F - Forward

S - Specify

④④: Pump Fiber Type

02 - MM-S105/125 NA0.22

SS - Specify

⑦: Fiber Length

1 - 1m

S - Specify

②②②②: Signal Wavelength

1030 - 1030nm

SS - Specify

⑤⑤: Signal Fiber Type

14 - PLMA-GDF-15/130 NA0.08

SS - Specify

⑧: Package Type

P2- 70x12x8

S - Specify

③③③: Pump Wavelength

976 - 976nm

SSS - Specify

⑥⑥: Output Fiber Type

14 - PLMA-GDF-15/130 NA0.08

SS - Specify

Polarization Maintaining (6+1)X1 MultiMode Pump & Signal Combiner 10xxnm 70V

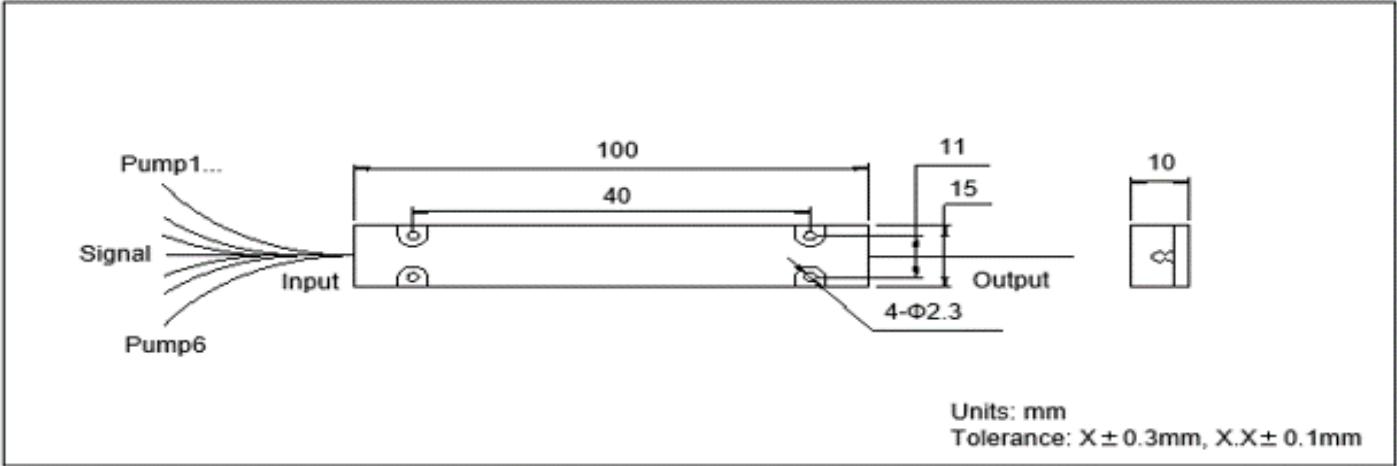
Spec Review No.:SR2303048A Date: Mar. 18, 2023

Specifications

Parameters	Unit	Values
Pump Wavelength	nm	976
Signal Wavelength	nm	1080
Pump Fiber	-	MM-S105/125-22A
Signal Fiber	-	PLMA-GDF-10/125
Output Fiber	-	PLMA-GDF-25/250
Min.Pump Efficiency	%	95
Max.Signal Insertion	dB	0.8
Min.PER	dB	17
Max. Pump Power Handling(Each port)	W	65
Operating Temperature	°C	-5 to 75
Storage Temperature	°C	-40 to 85
Package	mm	100(L) x15(W) x10(H)

- *Above specifications are for device without connector.
- *Port mark with digital labeling
- *The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMMPC-LC-(6+1)X1-①-②②-③③③-④④-⑤⑤-⑥⑥-⑦-⑧

- | | | |
|--|--|--|
| ①: Pump Propagation Direction
F - Forward | ④④: Pump Fiber Type
02 - MM-S105/125-0.22NA | ⑦: Fiber Length
0.8 - 0.8m |
| ②②②②: Signal Wavelength
1080 - 1080nm | ⑤⑤: Signal Fiber Type
04 - PLMA-GDF-10/125 | ⑧: Package Type
P3 - 100(L) x15(W) x10(H) |
| ③③③: Pump Wavelength
976 - 976nm | ⑥⑥: Output Fiber Type
13 - PLMA-GDF-25/250 | |

Polarization Maintaining (6+1)X1 Multi-Mode Pump Combiner 10xxnm 240W

Spec Review No.:SR2303041B

Date: Mar, 15, 2023

Specifications

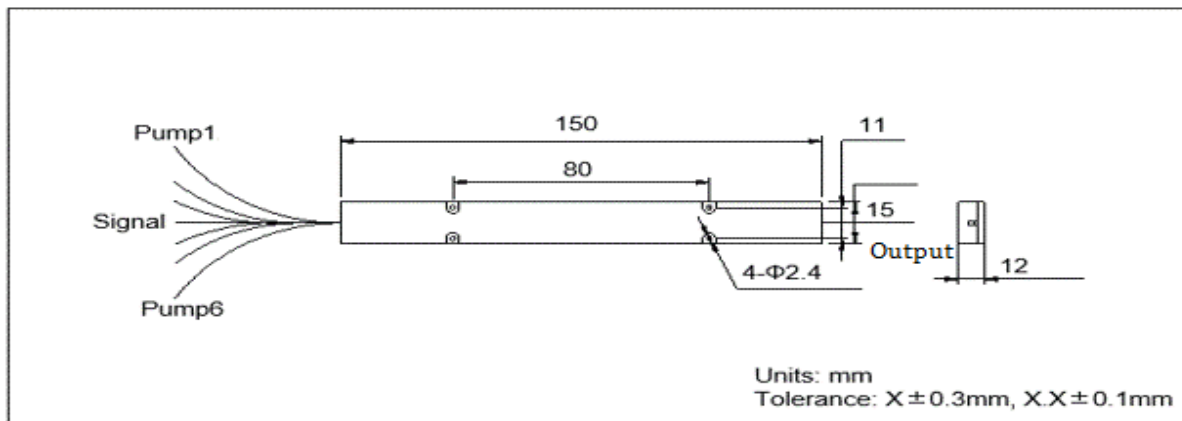
Parameters	unit	Values
Pump Wavelength	nm	976
Signal Wavelength	nm	1060
Pump Fibers	-	MM-S135/155-22A
Signal Input Fiber	-	PLMA-GDF-20/400-M
Signal Output Fiber	-	PLMA-GDF-20/400-M
Max. Handling Power (Pump Ports)	W	240
Maximum Handling Power For Singal Port	W	200
Min. Pump Efficiency	%	96
Min.PER	dB	18
Max. Signal Insertion Loss	dB	0.2
Operating Temperature	°C	-5 to 75
Storage Temperature	°C	-40 to 85
Package	mm	150(L) x15(W) x12.6(H)

*Above specifications are for device without connector.

*Ports marked with digital label.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMMPC-LC-(6+1)X1-①-②②②②-③③③③-④④-⑤⑤-⑥⑥-⑦-⑧⑧⑧-⑨

①: Pump Propagation Direction

F - Forward

S - Specify

④④: Pump Fiber Type

19 - MM-S135/155-22A

SS - Specify

⑦: Fiber Length

1 - 1 m

S - Specify

②②②②: Signal Wavelength

1060 - 1060nm

SSSS - Specify

⑤⑤: Signal Fiber Type

64 - PLMA-GDF-20/400-M

SS - Specify

⑧: Package Type

P4 - 150(L) x15(W) x12.6(H)

SS - Specify

③③③: Pump Wavelength

976 - 976nm

SSS - Specify

⑥⑥: Output Fiber Type

64 - PLMA-GDF-20/400-M

SS - Specify

Polarization Maintaining (1+1)X1 MultiMode Pump & Signal Combiner 15xxnm 10W

Spec Review No.: SR2209058B

Date: Sep. 05, 2024

Specifications

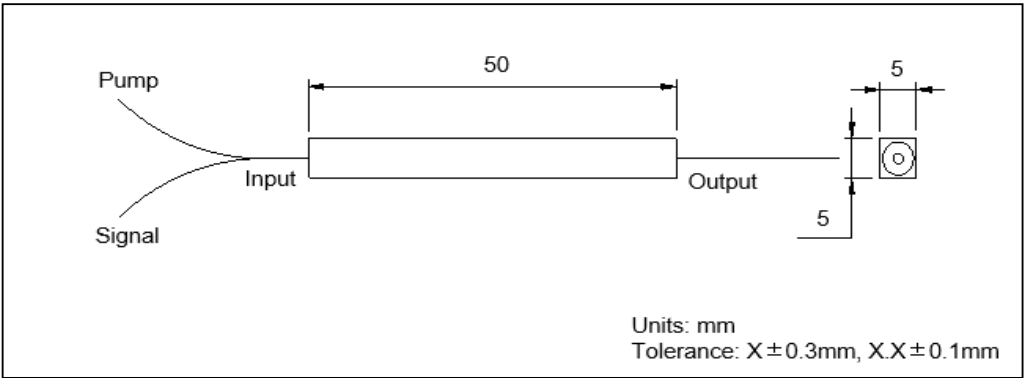
Parameters	Unit	Values
Pump Wavelength	nm	976
Signal Wavelength	nm	1550
Pump Fiber	-	NUFERN MM-S105/125-22A
Signal Input Fiber	-	Fujikura-SM15-PS-U25D
Signal Output Fiber	-	NUFERN PM-GDF-1550
Min. Pump Efficiency	%	90
Max. Signal Insertion Loss (Input to Output)	dB	0.5
Min. PER (Inner Core)	dB	18
Max. Pump Power Handling (Each Port)	W	10
Package	mm	50(L) x5(W) x5(H)
Operating Temperature	°C	-5 to 75
Storage Temperature	°C	-40 to 85

*Above specifications are for device without connector.

*Port mark with digital labeling

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMMPC-LC-(1+1)X1-①-②②②②-③③③③-④④-⑤⑤-⑥⑥-⑦

①: Pump Propagation Direction

F - Forward

S - Specify

④④: Pump Fiber Type

02 - NUFERN MM-S105/125-22A

SS - Specify

⑦: Fiber Length

1 - 1.0m

②②②: Pump Wavelength

976 - 976nm

SSS - Specify

⑤⑤: Signal Fiber Type

30 - Fujikura-SM15-PS-U25D

SS - Specify

⑧: Package Type

P1 - 50X5X5

S - Specify

③③③③: Signal Wavelength

1550 - 1550nm

SS - Specify

⑥⑥: Output Fiber Type

52 - NUFERN PM-GDF-1550

SS - Specify

Polarization Maintaining (2+1)X1 MultiMode Pump &Signal Combiner 15xxnm 50W

Spec Review No.:SR2503023A

Date: Mar. 7, 2025

Specifications

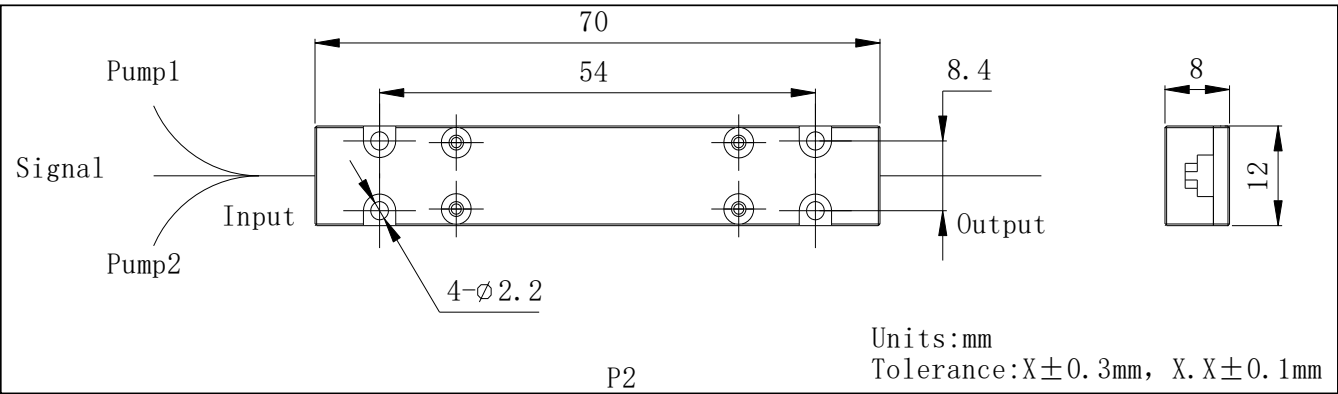
Parameters		Unit	Values
Pump Wavelength		nm	976
Signal Wavelength		nm	1550
Fiber Type	Pump Fiber	-	NUFERN MM-S105/125-22A
	Signal Input Fiber	-	NUFERN PM-GDF-1550
	Output Fiber	-	NUFERN PM-GDF-1550
Min.Pump Efficiency		%	93
Max.Signal Insertion Loss		dB	0.5
Max.Pump Power Handling (Per port)		W	30
Max.Signal Power Handling		W	12
Min. PER (Inner Core) @23℃		dB	20
Operating Temperature		℃	-5 to 75
Storage Temperature		℃	-40 to 85
Package		mm	70(L) x12(W) x8(H)

*Above specifications are for device without connector.

*Port mark with digital labeling

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMMP-C-(2+1)X1-①-②②②-③③③③-④④-⑤⑤-⑥⑥-⑦-⑧

①: Pump Propagation Direction

F - Forward

S - Specify

②②②: Pump Wavelength

976 - 976nm

SSS - Specify

③③③③: Signal Wavelength

1550 - 1550nm

SSSS - Specify

④④: Pump Fiber Type

02 - NUFERN MM-S105/125-22A

SS - Specify

⑤⑤: Signal Fiber Type

52 - NUFERN PM-GDF-1550

S - Specify

⑥⑥: Output Fiber Type

52 - NUFERN PM-GDF-1550

SS - Specify

⑦: Fiber Length

1 - 1 m

S - Specify

⑧: Package Type

P2 - 70x12x8

SS - Specify

Polarization Maintaining (6+1)X1 MultiMode Pump & Signal Combiner 15xxnm 30W

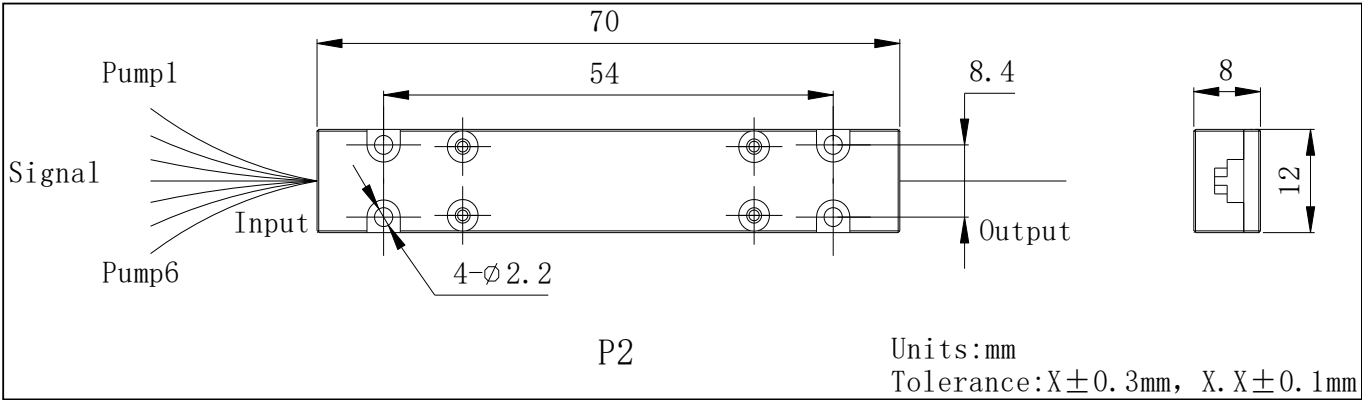
Spec Review No.:SR2502048A Date: Feb. 24, 2025

Specifications

Parameters	Unit	Values
Pump Wavelength	nm	950
Signal Wavelength	nm	1550
Pump Fiber	-	MM-S105/125-22A
Signal Input Fiber	-	NUFERN PM-GDF-1550
Signal Output Fiber	-	NUFERN PM-GDF-1550
Min.Pump Efficiency	%	93
Max.Signal Insertion Loss (Input to Output)	dB	1.5
Min.PER (Inner Core) @23°C	dB	18
Max.Pump Power Handling (Per Port)	W	30
Package	mm	70X12X8
Operating Temperature	°C	-5 to 75
Storage Temperature	°C	-40 to 85

*Above specifications are for device without connector.
*Port mark with digital labeling
*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMMP-PC-LC-(6+1)X1-①-②②②②-③③③③-④④-⑤⑤-⑥⑥-⑦-⑧

①: Pump Propagation Direction
F- Forward
S - Specify
②②②②: Pump Wavelength
915- 915nm, 950- 950nm
SSS - Specify
③③③③: Signal Wavelength
1550- 1550nm
SS - Specify

④④: Pump Fiber Type
02- MM-S105/125-22A
SS - Specify
⑤⑤: Signal Input Fiber
52- NUFERN PM-GDF-1550
SS - Specify
⑥⑥: Signal Output Fiber
52- NUFERN PM-GDF-1550
SS - Specify

⑦: Fiber Length
1- 1m
S - Specify
⑧: Package Type
P2- 70x12x8
S - Specify

Polarization Maintaining (1+1)X1 Multimode Pump & Signal Combiner
19xx~20xxnm 10W

Spec Review No.: SR2408017A

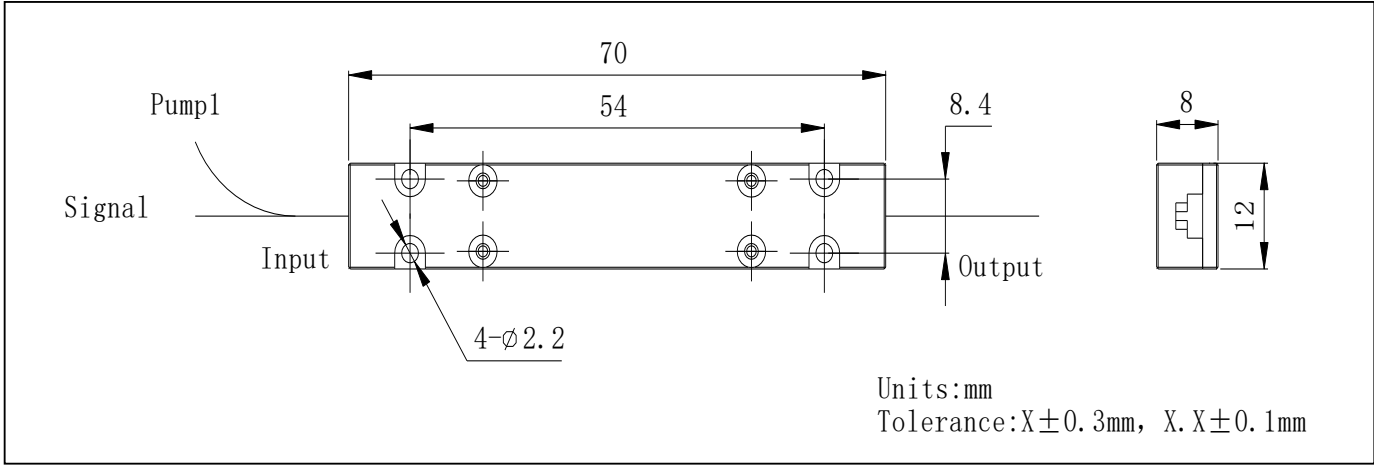
Date: Aug. 08, 2024

Specifications

Parameters	Unit	Values
Pump Wavelength	nm	793
Signal Wavelength	nm	1950
Pump Fiber	-	NUFERN MM-S105/125-22A
Signal Input Fiber	-	PM1950
Output Fiber	-	PM-GDF-10/130-2000-M
Min. Pump Efficiency	%	92
Max. Signal Insertion Loss (Input to Output)	dB	0.5
Min. Extinction Ratio	dB	18
Max. Pump Power Handling (Per Pump)	W	10
Operating Temperature	℃	-5 to +75
Storage Temperature	℃	-40 to +85
Package	mm	70X12X8

*Above specifications are for device without connector.
*Port mark with digital labeling
*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMMPC-LC-(1+1)X1-①-②②②-③③③③-④④-⑤⑤⑤-⑥⑥⑥-⑦-⑧

- ①: Pump Propagation Direction
F - Forward
- ④④: Pump Fiber Type
02 - NUFERN MM-S105/125-22A
- ⑦: Fiber Length
1 - 1.0m
S - Specify
- ②②②: Pump Wavelength
793 - 793nm
- ⑤⑤⑤: Signal Fiber Type
156 - PM1950
- ⑧: Package Type
P2 - 70x12x8
- ③③③③: Signal Wavelength
1950 - 1950nm
- ⑥⑥⑥: Output Fiber Type
157 - PM-GDF-10/130-2000-M

Polarization Maintaining (2+1)X1 Multimode Pump & Signal Combiner
19xx~20xxnm 30W

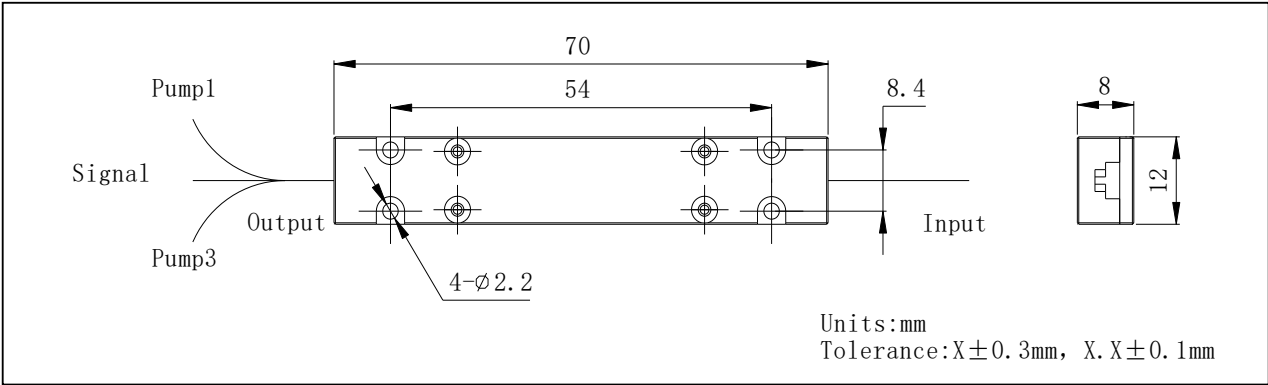
Spec Review No.:SR2405011A Date: May. 09, 2024

Specifications

Parameters	Unit	Values
Pump Wavelength	nm	793
Signal Wavelength	nm	2050 (Test at 1985)
Pump Fiber	-	MM-S105/125-22A
Signal Input Fiber	-	PM-GDF-10/130-2000-M
Output Fiber	-	PM-GDF-10/130-2000-M
Min. Pump Efficiency	%	92
Max. Signal Insertion Loss (Input to Output)	dB	0.5
Min. Extinction Ratio	dB	17
Max. Signal Power Handling	-	AVG: 5W; Peak: 500W
Max. Pump Power Handling (Per Port)	W	30
Operating Temperature	°C	-5 to 75
Storage Temperature	°C	-40 to 85
Package	mm	70(L) x12(W) x8(H)

*Above specifications are for device without connector.
*Port mark with digital labeling
*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMMP- LC-(2+1)X1-①-②②②-③③③③-④④-⑤⑤⑤-⑥⑥⑥-⑦-⑧

- ①: Pump Propagation Direction
F- Forward
④④: Pump Fiber Type
02- MM-S105/125-22A
⑦: Fiber Length
1- 1.0m
S - Specify
- ②②②: Pump Wavelength
793- 793nm
⑤⑤⑤: Signal Fiber Type
157- PM-GDF-10/130-2000-M
⑧: Package Type
P2 - 70(L) x12(W) x8(H)
- ③③③③: Signal Wavelength
2050- 2050nm
⑥⑥⑥: Output Fiber Type
157- PM-GDF-10/130-2000-M

Polarization Maintaining (6+1)X1 Multimode Pump & Signal Combiner
19xx~20xxnm 30W

Spec Review No.:SR2305051A

Date: May. 15, 2023

Specifications

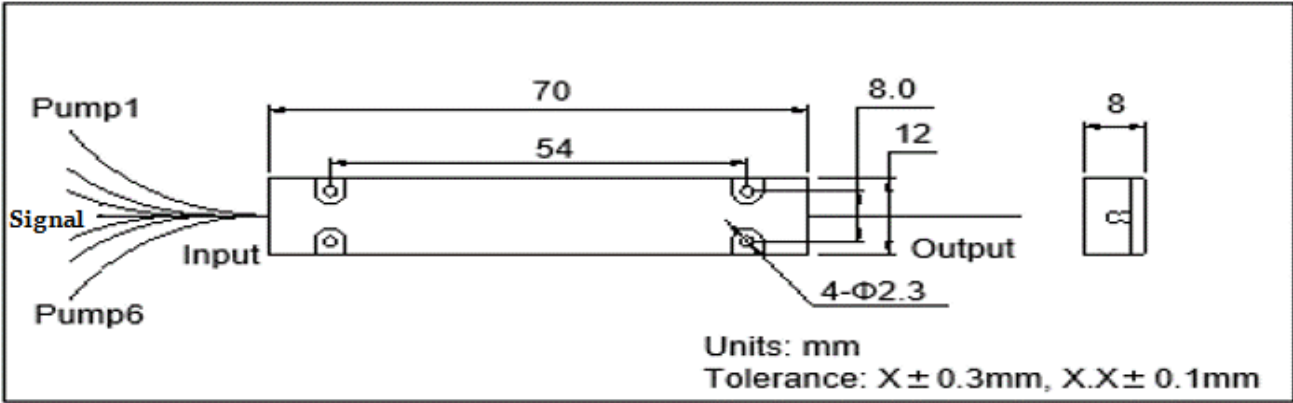
Parameters	Unit	Values
Pump Wavelength	nm	793
Signal Wavelength	nm	1900~2100
Pump Fiber	-	MM-S105/125-22A
Signal Input Fiber	-	PM-GDF-10/130-2000-M
Output Fiber	-	PM-GDF-10/130-2000-M
Min. Pump Efficiency	%	92
Max. Signal Insertion Loss (Input to Output)	dB	1.5
Min. PRE	dB	17
Max. Pump Power Handling (Per Port)	W	100
Operating Temperature	°C	-5 to 75
Storage Temperature	°C	-40 to 85
Package	mm	70(L) x12(W) x8(H)

*Above specifications are for device without connector.

*Port mark with digital labeling

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMMPC-LC-(6+1)X1-①-②②②②-③③③-④④-⑤⑤⑤-⑥⑥⑥-⑦-⑧

①: Pump Propagation Direction

F- Forward

S - Specify

④④: Pump Fiber Type

02- MM-S105/125-22A

SS - Specify

⑦: Fiber Length

1- 1m

S - Specify

②②②②: Signal Wavelength

2000- 1900~2100nm

SSSS - Specify

⑤⑤⑤: Signal Fiber Type

157- PM-GDF-10/130-2000-M

SSS - Specify

⑧: Package Type

P2- 70x12x8

SS - Specify

③③③: Pump Wavelength

793- 793nm

SSS - Specify

⑥⑥⑥: Output Fiber Type

157- PM-GDF-10/130-2000-M

SSS - Specify

3X1 Multi-Mode Pump Combiner 100W

Spec Review No.:SR2210021A

Date:Jul. 11, 2022

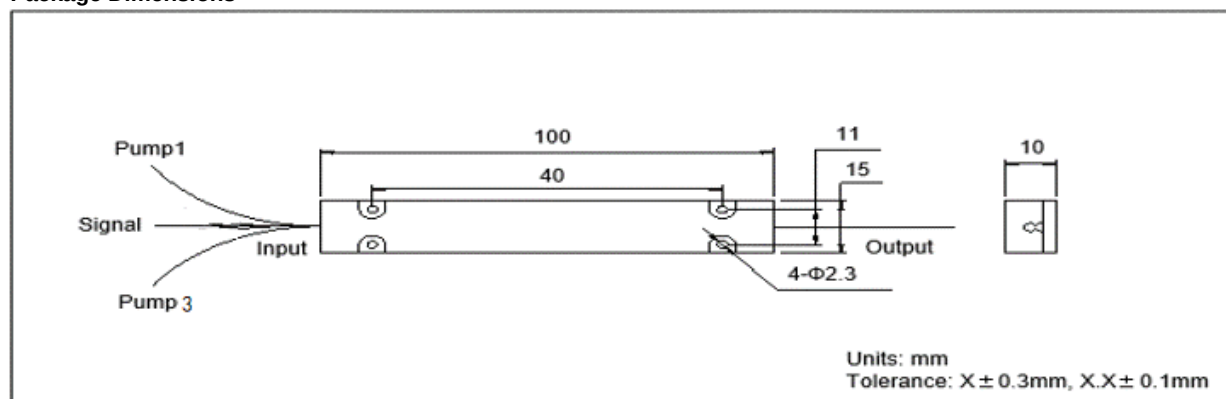
Specifications

Parameters	Unit	Values
Pump Wavelength	nm	976
Pump Fibers	-	YOFC SI 135/155-22/320(DC)
Output Fiber	-	PTIU220/242/325FA22
Max. Pump Power Handling(Each port)	W	250
Min.Pump Efficiency	%	95
Typ.Pump Efficiency	%	96
Operating Temperature	°C	-5 to 75
Storage Temperature	°C	-40 to 85
Package	mm	100(L) x15(W) x10(H)

*Above specifications are for device without connector.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

MMPC-LC-3X1-①①-②②-③-④

①①: Pump Fiber Type

77 - YOFC SI 135/155-22/320(DC)

SS - Specify

③:Fiber Length

1- 1m

S - Specify

②②:Output Fiber Type

78 - PTIU220/242/325FA22

SS - Specify

④:Package Type

P3 - 100 x15 x10

S - Specify

7X1 Multi-Mode Pump Combiner 100W

Spec Review No.:SR2211009A

Date:Apr. 11, 2022

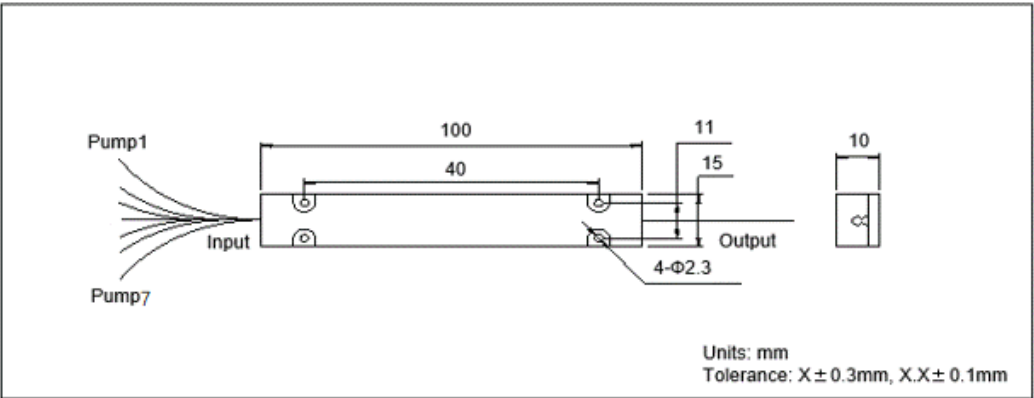
Specifications

Parameters	Unit	Values
Pump Wavelength	nm	976
Pump Fibers	-	MM-S105/125-0.22A
Output Fiber	-	MM-S220/242-22A
Handling Power (Pump Ports)	W	100
Min.Pump Efficiency	%	95
Typ.Pump Efficiency	%	96
Operating Temperature	°C	-5 to 75
Storage Temperature	°C	-40 to 85
Package	mm	100(L) x15(W) x10(H)

*Above specifications are for device without connector.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

MMPC-LC-7X1-①①-②②-③-④

①①: Pump Fiber Type

2 - MM- S105/125-0.22A

SS - Specify

②②: Output Fiber Type

78 - MM-S220/242-22A

SS - Specify

③: Fiber Length

1.2 - 1.2m

S - Specify

④: Package Type

P3 - 100 x15 x10

S - Specify

Single Mode Filter Coupler 7xx~8xxnm 300mW

Spec Review No.: SR1407001C

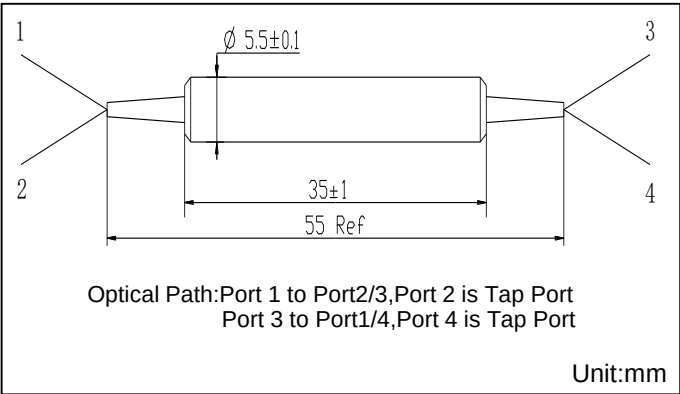
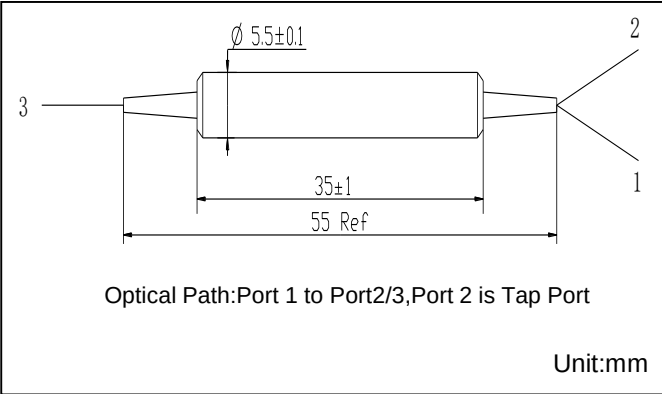
Date: Jul. 29, 2024

Specifications

Parameters	Unit	Values	
Center Wavelength	nm	850	
Operating Wavelength Range	nm	±40	
Port Type	-	1x2	2x2
Max. Excess Loss	dB	1.4	1.8
Max. Uniformity (only for 50/50)	dB	1.0	1.2
Tap Ratio (Port 2/4)	-	5±1.0% and 50%	
Min. Return Loss	dB	50	
Max. PDL	dB	0.15	
Max. Optical Power (CW,Total)	mW	200	
Max. Tensile Load	N	5	
Fiber Type	-	HI 780 fiber	
Operating Temperature	℃	-5 to +70	
Storage Temperature	℃	-40 to +85	

* Above specifications are for devices without the connectors.
* For devices with connectors, IL will be 0.7dB higher, RL will be 5dB lower.lower.
*The material must be RoHS compliant.

Package Dimensions



Ordering Information

SMFC-①①-②-③③-④-⑤⑤⑤⑤-⑥⑥⑥⑥-⑦-⑧⑧-⑨⑨

①①: Wavelength
85 - 850nm
SS - Specify

④:Handling Power
0.2 - 200mW
S - Specify

⑦: Fiber Length
0.8 - 0.8m
S - Specify

②: Port
1 - 1x2
2 - 2x2

⑤⑤⑤⑤: Connector Type on Port 1, 2, 3 & 4
1G - FC/UPC
2G - FC/APC
3D - SC/UPC
4D - SC/APC
N - None
SSSS - Specify

⑧⑧: Fiber Type
09 - HI 780 Fiber
SS - Specify

③③: Coupling Ratio
5 - 5/95
50 - 50/50
SS - Specify

⑥⑥⑥⑥: Fiber Jacket on Port 1, 2, 3 & 4
B - 250um Fiber
F - 900um Loose Tube(White)
SSSS - Specify

⑨⑨: Package Type
01 - Ø5.5x35

Single Mode Filter Coupler 9xx~19xxnm 500mW~10W

Spec No.: CAT-10-028B

Date:

Specifications

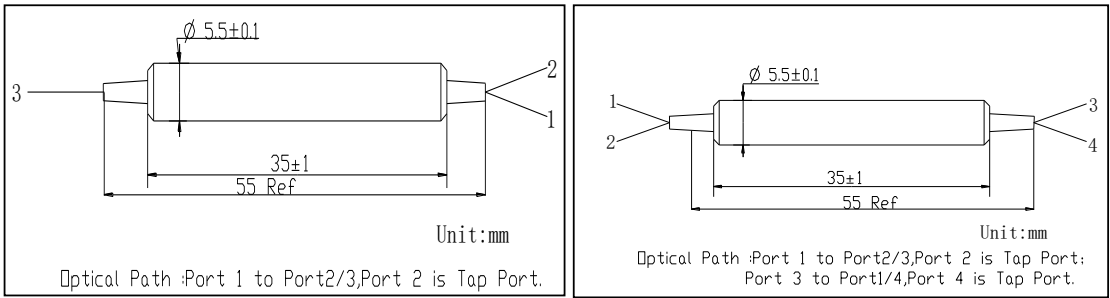
Parameters	Unit	Values			
Center Wavelength	nm	1064		1310 or 1550	
Operating Wavelength Range	nm	±40			
Type		1x2	2x2	1x2	2x2
Max. Excess Loss	dB	1.0	1.4	0.8	1.0
Max. Uniformity (only for 50/50)	dB	0.7	1.0	0.6	0.8
Tap Ratio (Port 2/4)	%	0.1±0.05%,1±0.2%, 2±0.4%, 5±1.0%, 10±2.0%, and 50%			
Min. Return Loss	dB	50			
Max. PDL	dB	0.1,0.25 for Tap Ratio<5%			
Max. Optical Power (CW)	mW	300			
Max. Tensile Load	N	5			
Fiber Type		HI 1060 fiber		SMF-28e	
Operating Temperature	℃	-5 to +70			
Storage Temperature	℃	-40 to +85			

* Above specifications are for devices without the connectors.

* For devices with connectors, IL will be 0.5dB higher(1064nm),IL will be 0.3dB higher(1310nm&1550nm), RL will be 5dB lower.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

SMFC-①①-②③③-④⑤⑤⑤⑤-⑥⑥⑥⑥⑥-⑦⑧⑧⑨⑨

①①: Wavelength	④:Handling Power	⑦: Fiber Length
06 - 1060nm	0.3 - 300mW	0.8 - 0.8m
31 - 1310nm	S - Specify	S - Specify
55 - 1550nm		
SS - Specify	⑤⑤⑤⑤: Connector Type on Port 1, 2, 3 &	⑧⑧:Fiber Type
	1B - FC/UPC	01 - HI-1060 Fiber
②: Port	2B - FC/APC	02 - SMF-28e Fiber
1 - 1x2	3D - SC/UPC	S - Specify
2 - 2x2	4D - SC/APC	
	N - None	⑨⑨ Package Type
③③: Coupling Ratio	S - Specify	01 - Ø5.5x35
05 - 5/95		
50 - 50/50	⑥⑥⑥⑥: Fiber Jacket on Port 1, 2, 3 & 4	
SS - Specify	B - 250um Fiber	
	F - 900um Loose Tube(White)	
	G - 900um Loose Tube(Yellow)	
	E - 900um Loose Tube(Black)	
	S - Specify	

Polarization Maintaining Filter Coupler 10xxnm 500mW 2x2

Spec No.: CAT-09-017C

Date:

Specifications

Parameters	Unit	Values
Center Wavelength	nm	1030, 1064
Operating Wavelength Range	nm	± 20
Coupling Ratio (for Port 2 & 4 only)	%	1±0.2, 2±0.4, 5±1.0, 10 & 50
Min. Return Loss	dB	50
Min. Extinction Ratio (only for F Type)	dB	20
Min. Extinction Ratio (only for B Type)	dB	18
Max. Excess Loss	dB	1.2
Max. Uniformity (for 50/50 only)	dB	0.8
Max. Optical Power (CW)	mW	300
Max. Tensile Load	N	5
Fiber Type	-	PM Panda Fiber
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

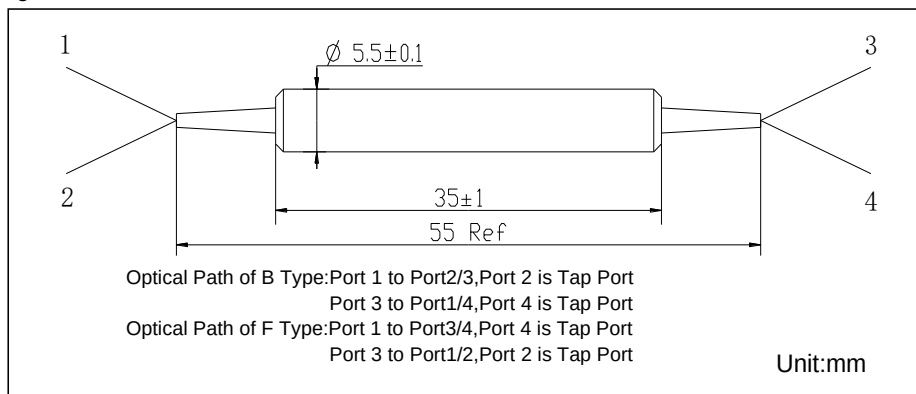
*Above specification are for devices without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, ER will be 2dB lower.

*The PM fiber and the connector key are aligned to the slow axis.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMFC-①-②-③-④-⑤-⑥⑥⑥⑥-⑦⑦⑦⑦-⑧-⑨-⑩

①: Wavelength

06 - 1064nm

03 - 1030nm

S - Specify

②: Port

2 - 2x2

③: Coupling Ratio

01 - 01/99

02 - 02/98

05 - 05/95

10 - 10/90

50 - 50/50

SS - Specify

④: Axis Alignment

F - Fast Axis Blocked

B - Both Axis Working

⑤: Handling Power

0.3 - 300mW

⑥⑥⑥⑥: Connector Type on Port 1, 2&3

1A - FC/UPC

2A - FC/APC

3D - SC/APC

4D - SC/UPC

N - None

S - Specify

⑦⑦⑦⑦: Fiber Jacket on Port 1, 2&3

B - Bare Fiber

C - 900um Loose Tube(Red)

D - 900um Loose Tube(Blue)

E - 900um Loose Tube(Black)

F - 900um Loose Tube(White)

SS - Specify

⑧: Fiber Length

1 - 1.0m

S - Specify

⑨: Fiber Type

04A - PM 980 Panda Fiber

20A - PM980 on Port1&3, Hi1060 on Port 2&4

S - Specify

⑩: Package Dimensions

01 - Ø5.5x35

S - Specify

Polarization Maintaining Filter Coupler 10xxnm 500mW 1x2

Spec No.: CAT-09-018D

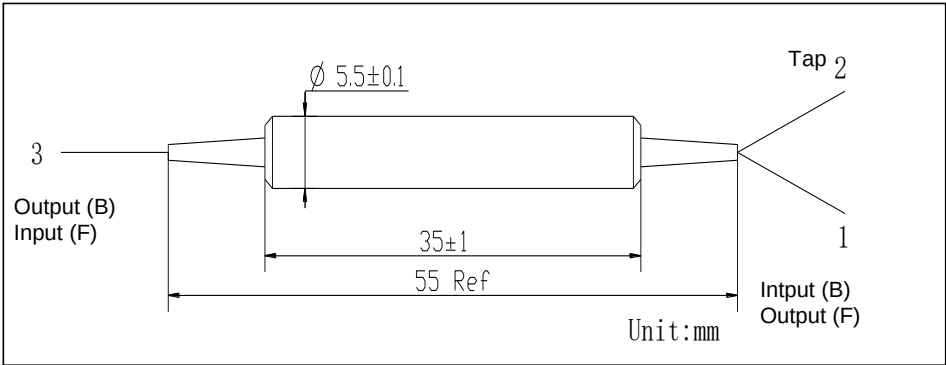
Date:

Specifications

Parameter	Unit	Values
Center Wavelength	nm	1030, 1064
Operating Wavelength Range	nm	± 20
Coupling Ratio (for Port 2 only)	%	1±0.2, 2±0.4, 5±1.0, 10 & 50
Min. Return Loss	dB	50
Min. Extinction Ratio (only for B Type)	dB	20
Min. Extinction Ratio (only for F Type)	dB	22
Max. Excess Loss	dB	0.8
Max. Uniformity (for 50/50 only)	dB	0.5
Max. Optical Power (CW)	mW	300
Max. Tensile Load	N	5
Fiber Type	-	PM Panda Fiber
Operating Temperature	℃	-5 to +70
Storage Temperature	℃	-40 to +85

- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, and ER will be 2dB lower.
- *The PM fiber and the connector key are aligned to the slow axis.
- *The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMFC-①-②-③-④-⑤-⑥⑥⑥-⑦⑦⑦-⑧-⑨-⑩

- | | | |
|---|---|--|
| ①: Wavelength
06 - 1064nm
03 - 1030nm
S - Specify | ⑤: Handling Power
0.3 - 300mW | ⑧: Fiber Length
1 - 1.0m
S - Specify |
| ②: Port
1 - 1x2 | ⑥⑥⑥: Connector Type on Port 1, 2&3
1A - FC/UPC
2A - FC/APC
3D - SC/APC
4D - SC/UPC
N - None
S - Specify | ⑨: Fiber Type
04A - PM 980 Panda Fiber
14A - PM980 on Port1&3, Hi1060 on Port 2
S - Specify |
| ③: Coupling Ratio
01 - 01/99
02 - 02/98
05 - 05/95
10 - 10/90
50 - 50/50
SS - Specify | ⑦⑦⑦: Fiber Jacket on Port 1, 2&3
B - Bare Fiber
C - 900um Loose Tube(Red)
D - 900um Loose Tube(Blue)
E - 900um Loose Tube(Black)
F - 900um Loose Tube(White)
SS - Specify | ⑩: Package Dimensions
01 - $\varnothing 5.5 \times 35$
S - Specify |
| ④: Axis Alignment
F - Fast Axis Blocked
B - Both Axis Working | | |

High Power Polarization Maintaining Filter Coupler 10xxnm 5W

Spec No.: CAT-05-45D

Date:

Specifications

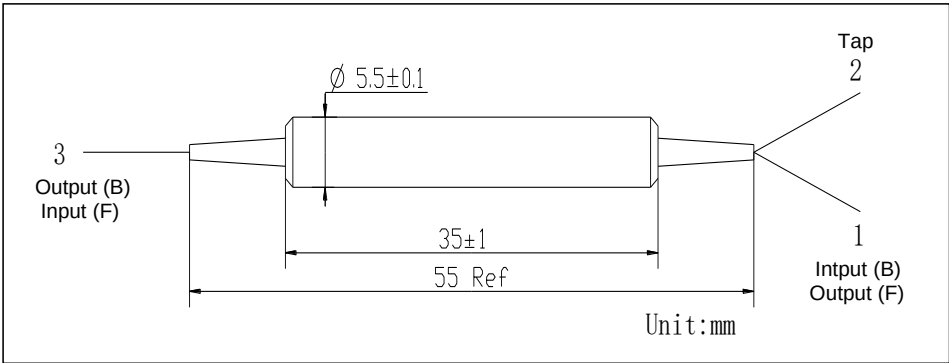
Parameter	Unit	Values
Center Wavelength	nm	1030, 1064
Operating Wavelength Range	nm	± 20
Coupling Ratio (for Port 2 only)	%	1±0.2, 2±0.4, 5±1.0, 10 & 50
Min. Return Loss	dB	50
Min. Extinction Ratio (only for B Type)	dB	20
Min. Extinction Ratio (only for F Type)	dB	22
Max. Excess Loss	dB	1.0
Max. Uniformity (for 50/50 only)	dB	0.7
Max. Optical Power (CW)	W	1, 2, or Specify
Max. Peak Power for ns Pulse	kW	10
Max. Tensile Load	N	5
Fiber Type	-	PM Panda Fiber
Operating Temperature	℃	-5 to +70
Storage Temperature	℃	-40 to +85

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, ER will be 2dB lower and optical power is only 1000mW(CW).

*The PM fiber and the connector key are aligned to the slow axis.

Package Dimensions



Ordering Information

HPMFC-①①-②-③③-④-⑤⑤-⑥⑥⑥-⑦⑦⑦-⑧-⑨⑨-⑩⑩

- ①①: Wavelength

06 - 1064nm

03 - 1030nm

SS - Specify
- ②: Port

1 - 1x2
- ③③: Coupling Ratio

01 - 01/99

02 - 02/98

05 - 05/95

10 - 10/90

50 - 50/50

SS - Specify
- ④: Axis Alignment

F - Fast Axis Blocked

B - Both Axis Working
- ⑤⑤: Handling Power

01 - 1W

02 - 2W
- ⑥⑥⑥: Connector Type on Port 1, 2&3

1A - FC/UPC

2A - FC/APC

3D - SC/APC

4D - SC/UPC

N - None

SS - Specify
- ⑦⑦⑦: Fiber Jacket on Port 1, 2&3

B - Bare Fiber

C - 900um Loose Tube(Red)

D - 900um Loose Tube(Blue)

E - 900um Loose Tube(Black)

F - 900um Loose Tube(White)

SS - Specify
- ⑧: Fiber Length

1 - 1.0m

S - Specify
- ⑨⑨: Fiber Type

04A - PM 980 Panda Fiber

14A - PM980 on Port1&3, Hi1060 on Port 2

S - Specify
- ⑩⑩: Package Dimensions

01 - Ø5.5x35

SS - Specify

Spec No.: CAT-09-019C

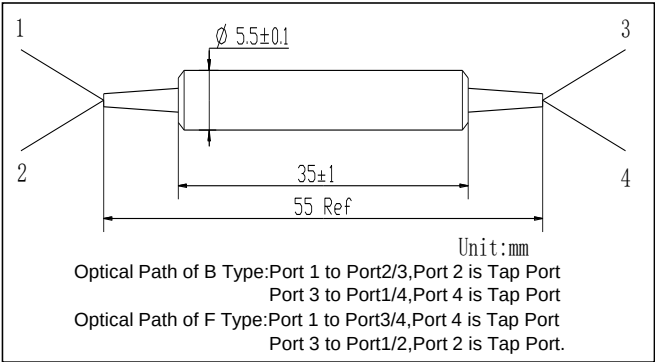
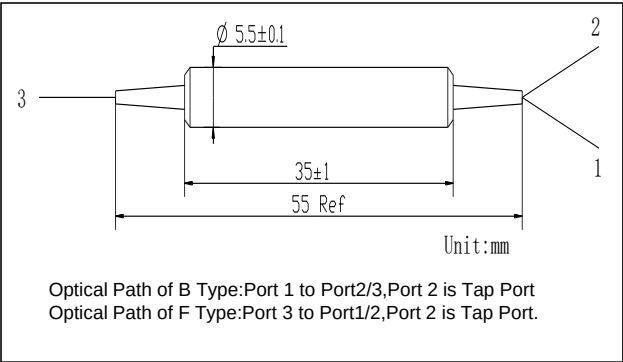
Date:

Specifications

Parameters	Unit	Values	
Port Type	-	1X2	2X2
Center Wavelength	nm	1310 or 1550	
Operating Wavelength Range	nm	±40	
Max. Excess Loss	dB	0.7	1.0
Max. Uniformity (only for 50/50)	dB	0.4	0.6
Tap Ratio (Port 2/4)	%	1±0.2, 2±0.4, 5±1.0, 10, and 50	
Min. Return Loss	dB	50	
Min. Extinction Ratio (only for F type)	dB	22	22
Min. Extinction Ratio (only for B type)	dB	20	18
Max. Tensile Load	N	5	
Fiber Type	-	SMF-28e or PM Panda Fiber on Tap Port	
		PM Panda Fiber on Port 1 & Port 3	
Operating Temperature	℃	-5 to +70	
Storage Temperature	℃	-40 to +85	

- * Above specifications are for devices without the connectors.
- * For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, and ER will be 2dB lower.
- * The PM fiber and the connector key are aligned to the slow axis.
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMFC-①-②-③-④-⑤-⑥⑥⑥⑥-⑦⑦⑦⑦-⑧-⑨-⑩

- ①: Wavelength
31 - 1310nm
55 - 1550nm
SS - Specify

②: Port
1 - 1x2
2 - 2x2

③: Coupling Ratio
01 - 1/99
10 - 10/90
50 - 50/50
S - Specify

④: Axis Alignment
F - Fast Axis Blocked
B - Both Axis Working
- ⑤: Handling Power
0.5 - 0.5W (only for Splitter)

⑥⑥⑥⑥: Connector Type on Port 1, 2, 3 & 4
1B - FC/UPC
2B - FC/APC (Step)
3D - SC/UPC
4D - SC/APC
N - None
S - Specify

⑦⑦⑦⑦: Fiber Jacket on Port 1, 2, 3 & 4
B - Bare Fiber
C - 900um Loose Tube(Red)
D - 900um Loose Tube(Blue)
E - 900um Loose Tube(Black)
SS - Specify
- ⑧: Fiber Length
1 - 1.0m
S - Specify

⑨: Fiber Type
01B - PM1550 Fiber on all Port
07B - PM1310 Fiber on all port
09 - Nufern PM1550-XP Fiber on all Port
13B - PM1550 on Port1 & 3, SMF-28e on Port 2
S - Specify

⑩: Package Dimensions
01 - Ø5.5x35
S - Specify

Spec No.: CAT-05-046C

Date:

Specifications

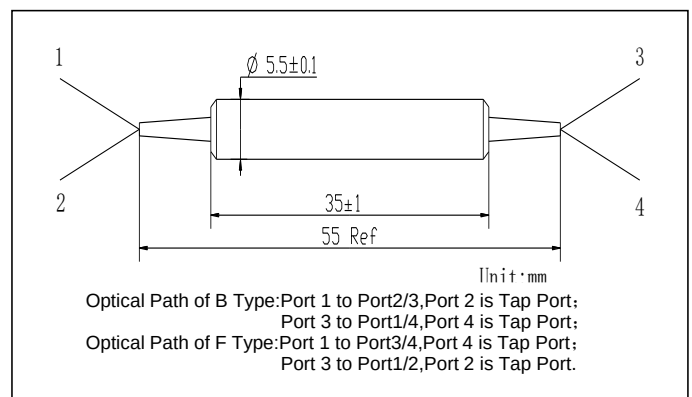
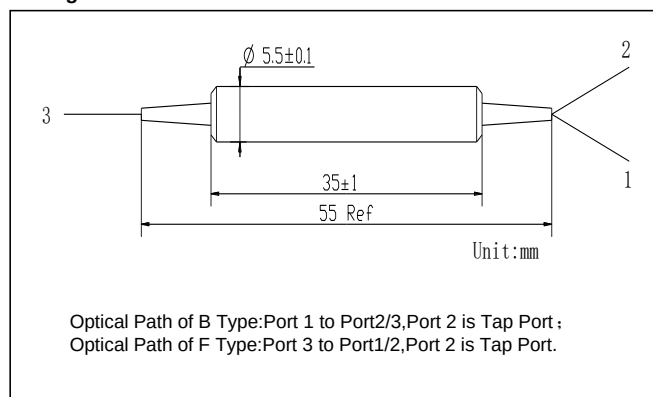
Parameters	Unit	Values	
Port Type		1X2	2X2
Center Wavelength	nm	1310 or 1550	
Operating Wavelength Range	nm	±40	
Max. Excess Loss	dB	0.9	1.2
Max. Uniformity (only for 50/50)	dB	0.6	0.8
Tap Ratio (Port 2/4)	%	1±0.2, 2±0.4, 5±1.0, 10 & 50	
Min. Return Loss	dB	50	
Min. Extinction Ratio (only for F type)	dB	22	22
Min. Extinction Ratio (only for B type)	dB	20	18
Max. Optical Power (CW)	W	1, 2 or Specify (only for Splitter)	
Max. Peak Power for ns Pulse	kW	10	
Max. Tensile Load	N	5	
Fiber Type		SMF-28e or PM Panda Fiber on Tap Port	
		PM Panda Fiber on Port 1 & Port 3	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	

* Above specifications are for devices without the connectors.

* For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, ER will be 2dB lower and optical power is only 1000mW(CW).

*The PM fiber and the connector key are aligned to the slow axis. And for F type, fast axis is blocked.

* The material must be RoHS compliant.

Package Dimensions**Ordering Information**

HPMFC-①①-②-③-④-⑤⑤-⑥⑥⑥⑥-⑦⑦⑦⑦-⑧-⑨-⑩⑩

①①: Wavelength

31 - 1310nm

55 - 1550nm

SS - Specify

②: Port

1 - 1x2

2 - 2x2

③: Coupling Ratio

01 - 1/99

02 - 2/98

05 - 5/95

10 - 10/90

50 - 50/50

S - Specify

④: Axis Alignment

F - Fast Axis Blocked

B - Both Axis Working

⑤⑤: Handling Power

01 - 1W (only for Splitter)

02 - 2W (only for Splitter)

⑥⑥⑥⑥: Connector Type on Port 1, 2, 3 & 4

1B - FC/UPC

2B - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify

⑦⑦⑦⑦: Fiber Jacket on Port 1, 2, 3 & 4

B - Bare Fiber

C - 900um Loose Tube(Red)

D - 900um Loose Tube(Blue)

E - 900um Loose Tube(Black)

SS - Specify

⑧: Fiber Length

1 - 1.0m

S - Specify

⑨: Fiber Type

01B - PM1550 Fiber on all Port

07B - PM1310 Fiber on all port

09 - Nufern PM1550-XP Fiber on all Port

13B - PM1550 on Port 1 & 3, SMF-28e on Port 2

S - Specify

⑩⑩: Package Dimensions

01 - Ø5.5x35

S - Specify

High Power Polarization Maintaining Filter Coupler 19xx~20xxnm 1~10W

Spec No.: CAT-05-059B

Date:

Specifications

Parameters	Unit	Values
Port Type	-	1X2 2X2
Center Wavelength	nm	2000
Operating Wavelength Range	nm	±50
Max. Excess Loss	dB	1.2 1.5
Max. Uniformity (only for 50/50)	dB	0.8 1.0
Tap Ratio (Port 2/4)	%	1±0.3, 2±0.6, 5±1.2, 10±2 & 50
Min. Return Loss	dB	50
Min. Extinction Ratio (only for F type)	dB	20 18
Min. Extinction Ratio (only for B type)	dB	18 16
Max. Optical Power (CW)	W	1, 3, 5 or Specify (only for Splitter)
Max. Peak Power for ns Pulse	kW	10
Max. Tensile Load	N	5
Fiber Type	-	PM Panda Fiber
Operating Temperature	℃	-5 ~ +70
Storage Temperature	℃	-40 ~ +85

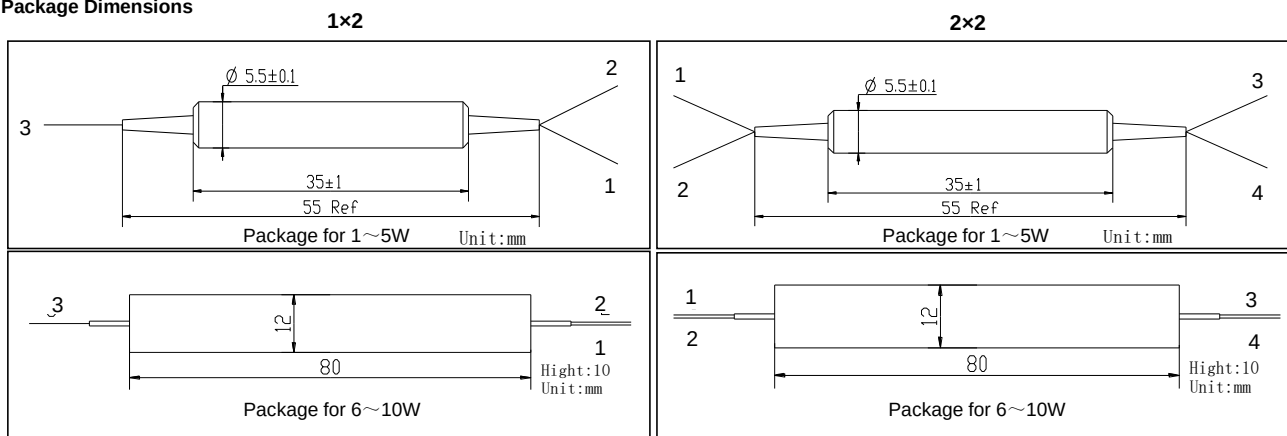
* Above specifications are for devices without the connectors.

* For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, ER will be 2dB lower, optical power is only 1W.

* The PM fiber and the connector key are aligned to the slow axis.

* For F type, fast axis is blocked, the input must be linear polarized light, and the input polarization must be aligned properly.

Package Dimensions



Optical Path of B Type: Port 1 to Port 2/3, Port 2 is Tap Port.
 Optical Path of F Type: Port 3 to Port 1/2, Port 2 is Tap Port.

Optical Path of B Type: Port 1 to Port 2/3, Port 2 is Tap Port,
 Port 3 to Port 1/4, Port 4 is Tap Port.
 Optical Path of F Type: Port 1 to Port 3/4, Port 4 is Tap Port,
 Port 3 to Port 1/2, Port 2 is Tap Port.

Ordering Information

1×2 HPMFC-①-②-③-④-⑤-⑥⑥⑥-⑦⑦⑦-⑧-⑨-⑩

2×2 HPMFC-①-②-③-④-⑤-⑥⑥⑥⑥⑥-⑦⑦⑦⑦⑦-⑧-⑨-⑩

①: Wavelength

20 - 2000nm

S - Specify

②: Port

1 - 1x2

2 - 2x2

③: Coupling Ratio

01 - 1/99

02 - 2/98

05 - 5/95

10 - 10/90

50 - 50/50

S - Specify

④: Axis Alignment

F - Fast Axis Blocked

B - Both Axis Working

⑤: Handling Power

01 - 1W

03 - 3W

05 - 5W

S - Specify

⑥⑥⑥: Connector Type on Port 1, 2&3

1A - FC/UPC

2A - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify

⑦⑦⑦: Fiber Jacket on Port 1, 2&3

B - 250um Bare Fiber

C - 900um Loose Tube (Red)

R - 3mm Cable (Blue)

SS - Specify

⑧: Fiber Length

0.8 - 0.8m

S - Specify

⑨: Fiber Type

12 - Nufern PM1950 Fiber on all Port

S - Specify

⑩: Package Dimensions

01 - Ø5.5x35

08 - 80*12*10

S - Specify

Spec No.: CAT-10-015C

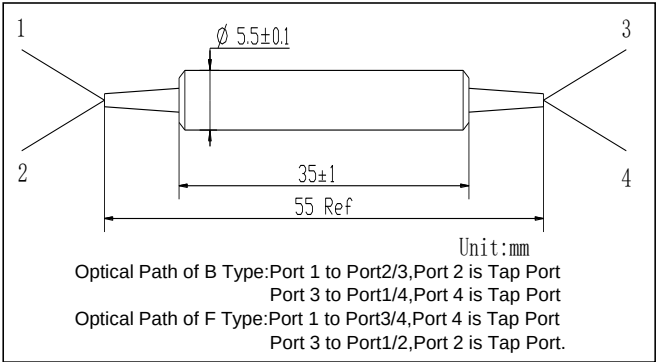
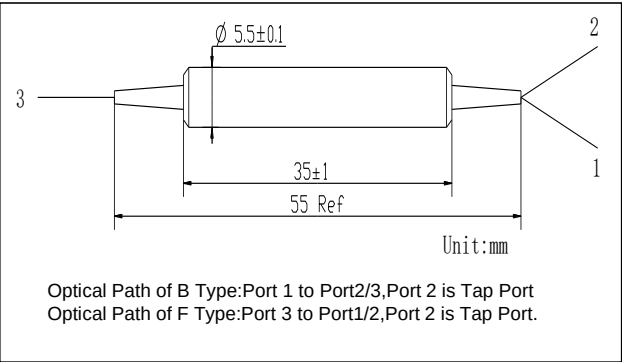
Date:

Specifications

Parameters	Unit	Values	
Port Type	-	1X2	2X2
Center Wavelength	nm	2000	
Operating Wavelength Range	nm	±50	
Max. Excess Loss	dB	1.2	1.5
Max. Uniformity (only for 50/50)	dB	0.8	1.0
Tap Ratio (Port 2/4)	%	1±0.3%, 2±0.6%, 5±1.2%, 10%, and 50%	
Min. Return Loss	dB	50	
Min. Extinction Ratio (only for F type)	dB	20	18
Min. Extinction Ratio (only for B type)	dB	18	16
Max. Optical Power (CW)	mW	500 (only for Splitter)	
Max. Tensile Load	N	5	
Fiber Type		PM Panda Fiber	
Operating Temperature	℃	-5 to +70	
Storage Temperature	℃	-40 to +85	

- * Above specifications are for devices without the connectors.
- * For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, and ER will be 2dB lower.
- *The PM fiber and the connector key are aligned to the slow axis.
- *The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMFC-①-②-③-④-⑤-⑥⑥⑥⑥-⑦⑦⑦⑦-⑧-⑨-⑩

- ①: Wavelength
20 - 2000nm
SS - Specify

②: Port
1 - 1x2
2 - 2x2

③: Coupling Ratio
01 - 1/99
10 - 10/90
50 - 50/50
S - Specify

④: Axis Alignment
F - Fast Axis Blocked
B - Both Axis Working
- ⑤: Handling Power
0.5 - 0.5W (only for Splitter)

⑥⑥⑥⑥: Connector Type on Port 1, 2, 3 & 4
1A - FC/UPC
2A - FC/APC
3D - SC/UPC
4D - SC/APC
N - None
S - Specify

⑦⑦⑦⑦: Fiber Jacket on Port 1, 2, 3 & 4
B - Bare Fiber
C - 900um Loose Tube(Red)
D - 900um Loose Tube(Blue)
E - 900um Loose Tube(Black)
SS - Specify
- ⑧: Fiber Length
1 - 1.0m
S - Specify

⑨: Fiber Type
01A - PM 1550
17 - Nufern PM1950
S - Specify

⑩: Package Dimensions
01 - Ø5.5x35
S - Specify

Polarization Maintaining Single Mode Standard Coupler 4xx~5xxnm 200mW

Spec Review No.: SR2411043A

Date: Nov. 29, 2024

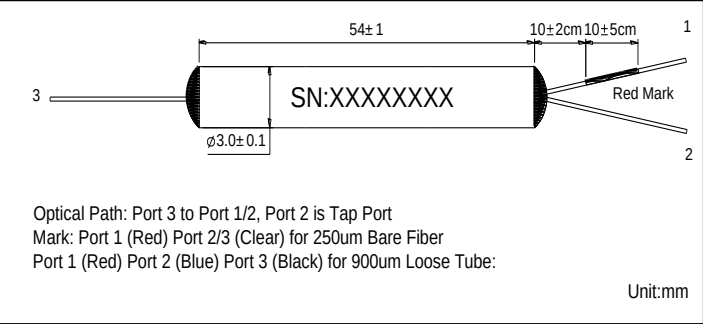
Specifications

Parameters	Unit	Values							
Center Wavelength	nm	509							
Coupling Ratio	%	1/99	2/98	5/95	10/90	20/80	30/70	40/60	50/50
Max. Coupling Ratio Tolerance 25℃	%	±0.3	±0.6	±0.8	±1	±1.8	±2.2	±2.5	±3.0
Max. Excess Loss 25℃	dB	1.2							
Min. Extinction Ratio 25℃	dB	NA/18	15/18		18/18				
Min. Return Loss 25℃	dB	50							
Max. Optical Power (CW)	mW	300							
Max. Tensile Load	N	5							
Operating Temperature	℃	-5 to + 70							
Storage Temperature	℃	-40 to + 85							
Fiber Type	-	PM480 Fiber							
Package Dimensions	mm	Ø3.0X54							

*Above specifications are for device without connector.

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMSMC-①①-②-③③-④④④-⑤⑤⑤-⑥-⑦⑦-⑧⑧

①①: Wavelength 509 - 509nm	③③: Coupling Ratio 01 - 1/99 02 - 2/98 05 - 5/95 10 - 10/90 20 - 20/80 30 - 30/70 40 - 40/60 50 - 50/50 SS - Specify	④④④: Connector Type N - None	⑦⑦: Fiber Type 86 - PM480 Fiber
②: Port 1 - 1X2		⑤⑤⑤: Fiber Jacket B - 250um Bare Fiber C - 900um Loose Tube(Red) D - 900um Loose Tube(Blue) E - 900um Loose Tube(Black)	⑧⑧: Package Dimensions 13 - Ø3.0 x54
		⑥: Fiber Length 1 - 1.0m S - Specify	

Single Mode Standard Coupler 4xx~5xxnm 200mW

Spec Review No.: SR1809010B

Date: Nov. 13, 2023

Specifications

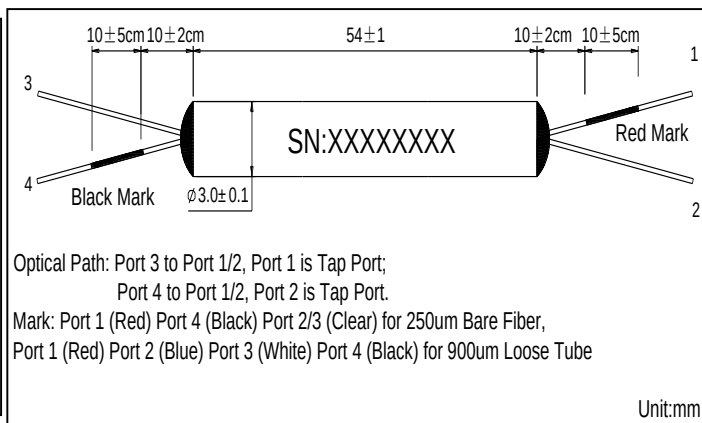
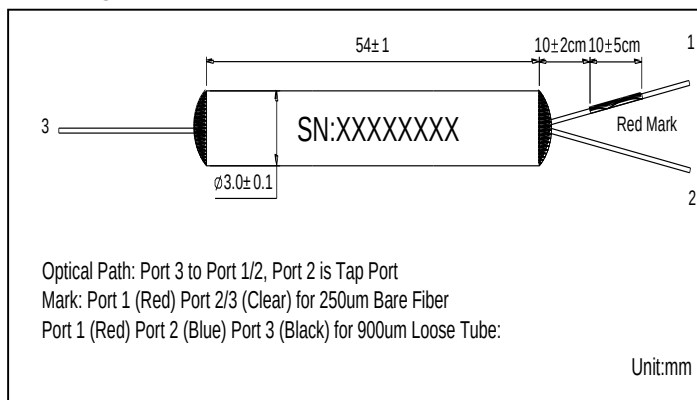
Parameters	Unit	Values								
Center Wavelength	nm	518 or 532								
Operating Wavelength Range	nm	±15								
Coupling Ratio (Port2/Port1)	%	1/99	2/98	3/97	5/95	10/90	20/80	30/70	40/60	50/50
Max. Insertion Loss @Central wavelength (Port 3→2,1)	dB	24/1.2	19.0/1.3	18.3/1.4	17.0/1.6	13.0/1.9	8.5/2.4	6.7/2.9	5.4/3.6	4.5
Min. Return Loss (Port2/Port1)	dB	50								
Max. Optical Power (CW)	mW	200								
Max. Tensile Load	N	5								
Operating Temperature	°C	0 to + 70								
Storage Temperature	°C	-40 to + 75								
Fiber Type	-	Nufern 460-HP Fiber								
Package Dimensions	mm	Ø3.0X54								

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.7dB higher,RL will be 5dB lower.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

SMC-①①-②-③③-④④④-⑤⑤⑤-⑥-⑦⑦-⑧⑧

①①: Wavelength

518 - 518nm

532 - 532nm

SS - Specify

③③: Coupling Ratio

01 - 1/99

02 - 2/98

03 - 3/97

05 - 5/95

10 - 10/90

20 - 20/80

30 - 30/70

40 - 40/60

50 - 50/50

SS - Specify

④④④: Connector Type on all Ports

1G - FC/UPC

2G - FC/APC

N - None

S - Specify

⑤⑤⑤: Fiber Jacket on all Ports

B - 250um Bare Fiber

C - 900um Loose Tube (Red)

D - 900um Loose Tube (Blue)

E - 900um Loose Tube (Black)

F - 900um Loose Tube (White)

⑥: Fiber Length

1 - 1.0m

S - Specify

⑦⑦: Fiber Type

54 - Nufern 460-HP Fiber

S - Specify

⑧⑧: Package Dimensions

13 - Ø3.0x54mm

Polarization Maintaining Single Mode Standard Coupler 6xxnm 300mW

Spec Review No.: SR2109020A

Date: Sep. 15, 2021

Specifications

Parameters	Unit	Values							
Center Wavelength	nm	740							
Operating Wavelength Range	nm	±10							
Coupling Ratio	%	1/99	2/98	5/95	10/90	20/80	30/70	40/60	50/50
Max. Coupling Ratio Tolerance	%	±0.5	±0.8	±1.5	±2.2	±2.5	±3.0	±4.0	±5.0
Max. Excess Loss	dB	1.0							
Min. Extinction Ratio	dB	NA/15	12/15	12/15	12/15	15/15	15/15	15/15	15/15
Min. Return Loss	dB	50							
Max. Optical Power (CW)	mW	500							
Max. Tensile Load	N	5							
Operating Temperature	°C	-5 to + 70							
Storage Temperature	°C	-40 to + 75							
Fiber Type	-	Nufern PM630-HP fiber							
Package Dimensions	mm	Ø3.0x54							

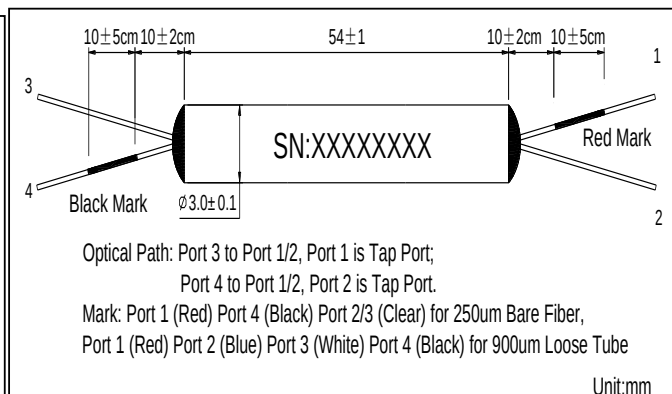
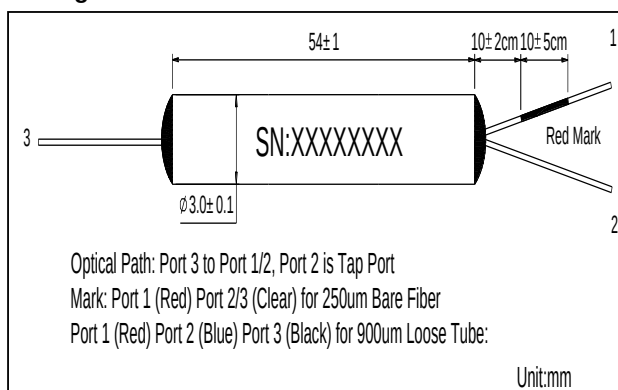
* Above specifications are for devices without the connectors.

* For devices with connectors, IL will be 1.0dB higher, RL will be 5dB lower and ER will be 2dB lower.

*The PM fiber and the connector key are aligned to the slow axis.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PSMC-①①-②-③③-④④④④-⑤⑤⑤⑤-⑥

①①: Wavelength

74 - 740nm

SS - Specify

③③: Coupling Ratio

01 - 1/99

02 - 2/98

05 - 5/95

②: Port

1 - 1X2

2 - 2X2

10 - 10/90

20 - 20/80

30 - 30/70

40 - 40/60

50 - 50/50

SS - Specify

④④④④: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

⑥: Fiber Length

1 - 1.0m

S - Specify

⑤⑤⑤⑤: Fiber Jacket

B - 250um Fiber

L - 900um Loose Tube

S - Specify

Single Mode Standard Coupler 6xxnm 300mW

Spec Review No.: SR2402018A

Date: Feb. 20, 2024

Specifications

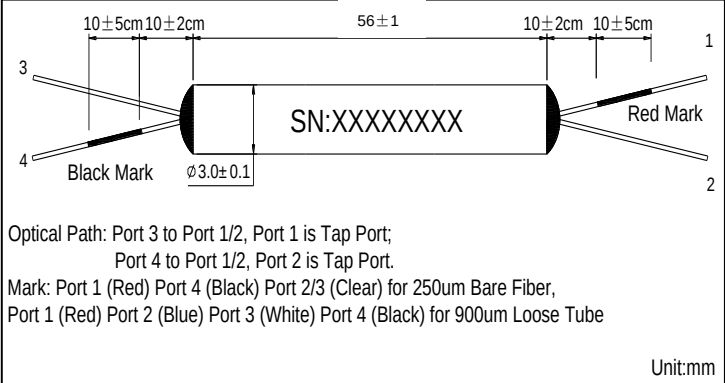
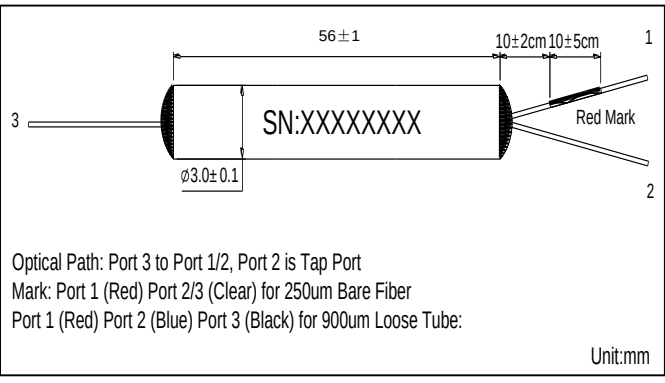
Parameters	Unit	Values
Center Wavelength	nm	630
Operating Wavelength Range	nm	±10
Coupling Ratio	%	10/90
Max. Insertion Loss	dB	11.5/1.2
Min. Return Loss	dB	50
Directivity	dB	50
Max. Optical Power (CW)	mW	100
Max. Tensile Load	N	5
Operating Temperature	°C	0 to + 70
Storage Temperature	°C	-40 to + 75
Fiber Type	-	630 HP Fiber
Package Dimensions	mm	Ø3.0X56

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.9dB higher,RL will be 5dB lower.

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

SMC-①①-②-③③-④④④-⑤⑤⑤-⑥-⑦⑦-⑧⑧

- ①①: Wavelength
63 - 630nm
SS - Specify

②: Port
1 - 1X2
2 - 2X2
- ③③: Coupling Ratio
10 - 10/90

④④④: Connector Type
1B - FC/UPC
2B - FC/APC
N - None
S - Specify
- ⑤⑤⑤: Fiber Jacket
B -250um Bare Fiber
C - 900um Loose Tube(Red)
D - 900um Loose Tube(Blue)
E - 900um Loose Tube(Black)
F - 900um Loose Tube(White)
- ⑥: Fiber Length
2 - 2.0m
S - Specify

⑦⑦:Fiber Type
24 - 630-HP Fiber

⑧⑧: Package Dimensions
16 - Ø3.0x56

Polarization Maintaining Single Mode Standard Coupler 7xx~8xxnm 300mW

Spec Review No.: SR2202013A

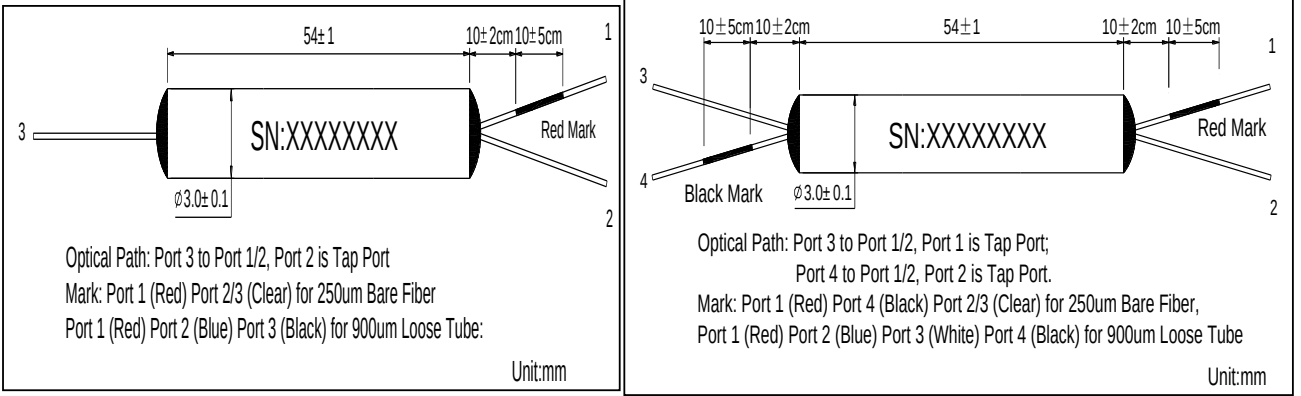
Date: Feb. 16, 2022

Specifications

Parameters	Unit	Values							
Center Wavelength	nm	870, 935							
Operating Wavelength Range	nm	±10							
Coupling Ratio	%	1/99	2/98	5/95	10/90	20/80	30/70	40/60	50/50
Max. Coupling Ratio Tolerance	%	±0.5	±0.8	±1.5	±2.2	±2.5	±3.0	±4.0	±5.0
Max. Excess Loss	dB	0.8							
Min. Extinction Ratio	dB	NA/17	14/17	14/17	14/17	17/17	17/17	17/17	17/17
Min. Return Loss	dB	50							
Max. Optical Power (CW)	mW	500							
Max. Tensile Load	N	5							
Operating Temperature	°C	-5 to + 70							
Storage Temperature	°C	-40 to + 75							
Fiber Type	-	Nufern PM780-HP fiber							
Package Dimensions	mm	Ø3.0x54							

- * Above specifications are for devices without the connectors.
- * For devices with connectors, IL will be 0.7dB higher, RL will be 5dB lower and ER will be 2dB lower.
- * The PM fiber and the connector key are aligned to the slow axis.
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMSMC-①①-②-③③-④④④④-⑤⑤⑤⑤-⑥

- ①①: Wavelength

87 -870nm

93 - 935nm

SS - Specify
- ③③: Coupling Ratio

01 - 1/99

02 - 2/98

05 - 5/95

10 - 10/90

20 - 20/80

30 - 30/70

40 - 40/60

50 - 50/50

SS - Specify
- ④④④④: Connector Type on all Ports

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify
- ⑤⑤⑤⑤: Fiber Jacket on all Ports

B - 250um Fiber

L - 900um Loose Tube

S - Specify
- ⑥: Fiber Length

1 - 1.0m

S - Specify

Single Mode Standard Coupler 7xx~8xxnm 300mW

Spec Review No.: SR2310034A

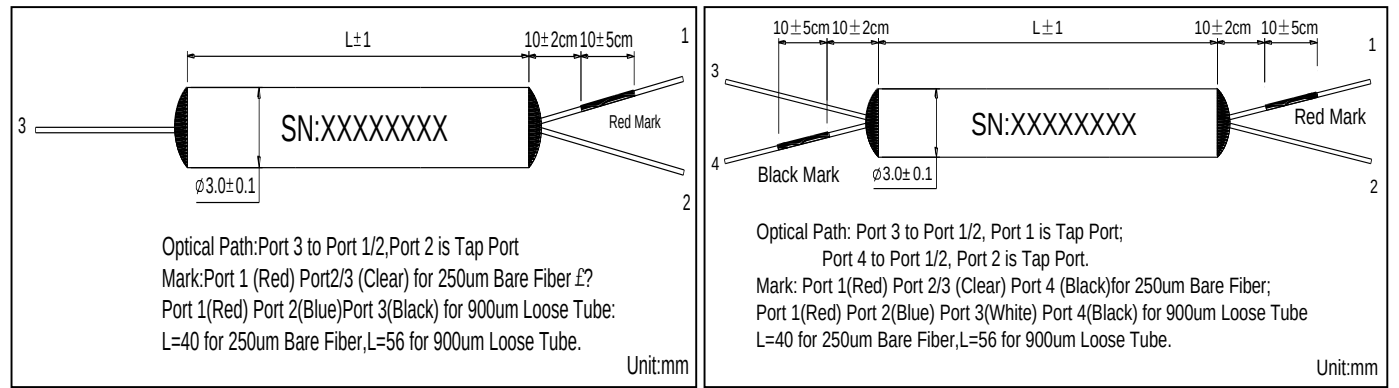
Date: Oct. 16, 2023

Specifications

Parameters	Unit	Values									
Center Wavelength	nm	780									
Operating Wavelength Range	nm	±10									
Coupling Ratio	%	50/50	40/60	30/70	20/80	10/90	5/95	3/97	2/98	1/99	
Max. Insertion Loss	dB	3.5	4.5/2.7	5.8/2.0	7.7/1.3	10.8/0.85	14.0/0.5	16.5/0.4	18.5/0.35	21.5/0.3	
Max. Polarization Dependent Loss	dB	0.1	0.1	0.1	0.1	0.15/0.05	0.15/0.05	0.15/0.05	0.15/0.05	0.15/0.05	
Min. Return Loss	dB	50									
Min. Directivity	dB	50									
Max. Optical Power CW	mW	500									
Max. Tensile Load	N	5									
Operating Temperature	℃	-5 to +70									
Storage Temperature	℃	-40 to +85									
Package Dimensions	mm	250um Bare Fiber							Ø3.0 X 40		
		900um Loose Tube							Ø3.0 X 56		

- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 0.7dB higher, RL will be 5dB lower.
- *The material must be RoHS compliant.

Package Dimensions



Ordering information

SMC-①①-②-③③-④④④④-⑤⑤⑤⑤-⑥-⑦⑦-⑧⑧

- ①①: Wavelength
78 - 780nm
SS - Specify

②: Port
1 - 1X2
2 - 2X2
- ③③: Coupling Ratio
50 - 50/50
40 - 40/60
30 - 30/70
20 - 20/70
10 - 10/90
05 - 5/95
03 - 3/97
02 - 2/98
01 - 1/99
SS - Specify
- ④④④④: Connector Type
1B - FC/UPC
2B - FC/APC
3D - SC/UPC
4D - SC/APC
S - Specify

⑤⑤⑤⑤: Fiber Jacket
B - 250um Bare Fiber
C - 900um Loose Tube(Red)
D - 900um Loose Tube(Blue)
E - 900um Loose Tube(Black)
F - 900um Loose Tube(White)
- ⑥: Fiber Length
1 - 1m
S - Specify

⑦⑦: Fiber Type
13 - HI780 Fiber
14 - Nufern 780-HP Fiber

⑧⑧: Package Dimensions
14 - Ø3.0X40
16 - Ø3.0X56

Polarization Maintaining Single Mode Standard Coupler 9xx~20xxnm 500mW

Spec No.: CAT-03-021C

Date:

Specifications

Parameters		Unit	Premium	A grade	Premium	A grade
Center Wavelength		nm	980,1030,1064 or Specify		1310,1480,1550,1940,2000 or Specify	
Operating W.L.		nm	±20		±20	
Max. Splitting Ratio Tolerance (CR)	50/50	%	±5.0	±6.0	±5.0	±6.0
	40/60	%	±4.0	±4.8	±4.0	±4.8
	30/70	%	±3.0	±3.7	±3.0	±3.7
	20/80	%	±2.5	±3.0	±2.5	±3.0
	10/90	%	±2.2	±2.4	±2.2	±2.4
	5/95	%	±1.5	±1.7	±1.5	±1.7
	3/97	%	±1.1	±1.3	±1.1	±1.3
	2/98	%	±0.8	±1.0	±0.8	±1.0
Min. Polarization Extinction Ratio	CR>10%	dB	18	15	20	17
	10%≥CR>1%	dB	14	11	16	13
	CR≤1%	dB	NA	NA	NA	NA
Max. Excess Loss		dB	0.8	1.0	0.4	0.6
Min. Return loss		dB	50			
Max. Power Handling		mW	500			
Operating Temperature		℃	-5~70			
Storage Temperature		℃	-40~85			
Fiber Type		-	PM Fiber			
Package Dimensions	250um Bare Fiber	mm	Ø3.0×50 or Ø3.0×40			
	900um Loose Tube	mm	Ø3.0×56			

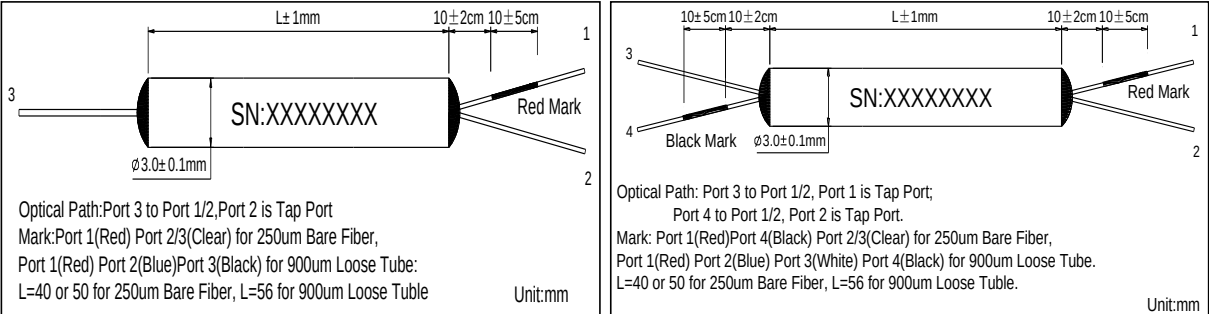
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB (1310~2000) or 0.5dB (980~1064) higher, ER will be 2dB lower and RL will be 5dB lower.

*The PM fiber and the connector key are aligned to the slow axis.

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMSMC-①①-②③③-④④④④-⑤⑤⑤⑤-⑥⑦⑦-⑧⑧

- ①①: Wavelength

98 - 980nm

03 - 1030nm

06 - 1064nm

31 - 1310nm

55 - 1550nm

19 - 1940nm

20 - 2000nm

SS - Specify
- ③③: Coupling Ratio

01 - 1/99

02 - 2/98

05 - 5/95

10 - 10/90

20 - 20/80

30 - 30/70

40 - 40/60

50 - 50/50

SS - Specify
- ④④④④: Connector Type

1B - FC/UPC

2B - FC/APC

3B - SC/UPC

4B - SC/APC

N - None

S - Specify
- ⑤⑤⑤⑤: Fiber Jacket

B -250um Bare Fiber

C - 900um Loose Tube(Red)

D - 900um Loose Tube(Blue)

E - 900um Loose Tube(Black)

F - 900um Loose Tube(White)
- ⑥: Fiber Length

1 - 1.0m

S - Specify
- ⑦⑦: Fiber Type

01 - PM 980 Fiber

02 - PM 980 Fiber(长飞)

03 - Nufern PM980-XP fiber

04 - PM1550 Fiber

05 - PM 1550 Fiber(长飞)

06 - Nufern PM1550-XP Fiber

30 - PM1950 Fiber
- ⑧⑧: Package Size

12 - Ø3.0×50

14 - Ø3.0×40

16 - Ø3.0×56

Single Mode Standard Coupler 9xx~10xxnm 500mW

Spec No.: CAT-03-012C

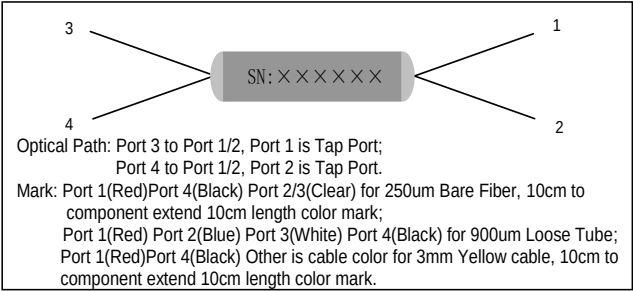
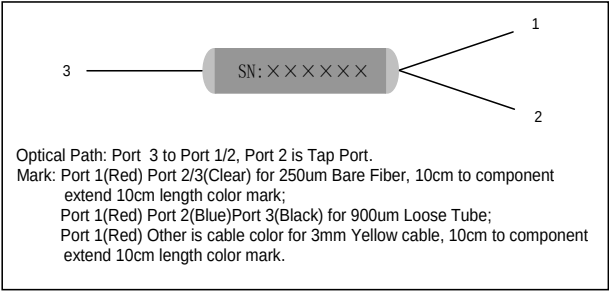
Date:

Specifications

Parameters	Unit	Values								
Operating Wavelength	nm	980 or 1060								
Bandwidth	nm	±10								
Coupling Ratio	%	1/99	2/98	3/97	5/95	10/90	20/80	30/70	40/60	50/50
Max. Insertion Loss	dB	21.9/0.25	18.5/0.3	16.5/0.35	14.5/0.45	11.0/0.7	7.7/1.3	5.8/2.0	4.5/2.7	3.5
Max. PDL(Tap/Through Port)	dB	0.12/0.05	0.12/0.05	0.12/0.05	0.10/0.05	0.10/0.05	0.08	0.08	0.08	0.08
Wavelength Dependent Loss	dB	0.4/0.15	0.4/0.15	0.4/0.15	0.4/0.15	0.3/0.15	0.3/0.15	0.3/0.15	0.2	0.2
Min. Return Loss	dB	50								
Min. Directivity	dB	50								
Max. Optical Power CW	mW	500								
Max. Tensile Load	N	5								
Thermal Stability	dB/°C	≤ 0.002 over -5 °C to +70 °C								
Operating Temperature	°C	-5 to +70								
Storage Temperature	°C	-40 to +85								
Package Dimensions	mm	250um bare fiber						Ø3.0 X 40		
		900um loose tube						Ø3.0 X 56		
		3mm loose cable						90X16X9		

*Above specifications are for device without connector
*For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lower.
* The material must be RoHS compliant.

Package Dimensions



Ordering information

SMC-①①-②-③③-④④④④-⑤⑤⑤⑤-⑥-⑦⑦-⑧⑧

①①: Wavelength
06 - 1060
98 - 980
SS - Specify

②: Port
1 - 1X2
2 - 2X2

③③: Coupling Ratio
01-1/99
02-2/98
03-3/97
05-5/95
10-10/90
20-20/80
30-30/70
40-40/60
50-50/50
SS-Specify

④④④④: Connector Type on all Ports
1B - FC/UPC
2B - FC/APC
3B - SC/UPC
4B - SC/APC
N - None
S - Specify

⑤⑤⑤⑤: Fiber Jacket on all Ports
B -250um Bare Fiber
C - 900um Loose Tube(Red)
D - 900um Loose Tube(Blue)
E - 900um Loose Tube(Black)
F - 900um Loose Tube(White)
T - 3mm松套管(黄色)

⑥: Fiber Length
1 - 1m
S - Specify

⑦⑦: Fiber Option
66 - OFS980 Fiber
20 - HI1060 Flex Fiber
1E - HI1060 Fiber
22 - SM-GSF-10/125 Fiber
S - Specify

⑧⑧:Package Dimensions
14 - Ø3.0X40
16 - Ø3.0X56
29 - 90x16x9

High Power Polarization Maintaining Single Mode Standard Coupler 9xx~20xxnm 20~50W

Spec No.: CAT-03-015C

Date:

Specifications

Parameters		Unit	Premium	A grade	Premium	A grade
Center Wavelength		nm	980,1030,1064 or Specify		1310,1480,1550,1940,2000 or Specify	
Operating W.L.		nm	±20		±20	
Max. Splitting Ratio Tolerance (CR)	50/50	%	±5.0	±6.0	±5.0	±6.0
	40/60	%	±4.0	±4.8	±4.0	±4.8
	30/70	%	±3.0	±3.7	±3.0	±3.7
	20/80	%	±2.5	±3.0	±2.5	±3.0
	10/90	%	±2.2	±2.4	±2.2	±2.4
	5/95	%	±1.5	±1.7	±1.5	±1.7
	3/97	%	±1.1	±1.3	±1.1	±1.3
	2/98	%	±0.8	±1.0	±0.8	±1.0
Min. Polarization Extinction Ratio	CR>10%	dB	18	15	20	17
	10%≥CR>1%	dB	14	11	16	13
	CR≤1%	dB	NA	NA	NA	NA
Max. Excess Loss		dB	0.8	1.0	0.4	0.6
Min. Return Loss		dB	50			
Max. Power Handling		W	1,3,5,10,20 or Specify			
Operating Temperature		℃	-5~70			
Storage Temperature		℃	-40~85			
Fiber Type		-	PM Fiber			
Package Dimensions	Power Handling 5W	mm	Ø3.0×56			
	Power Handling 20W	mm	75×12×8			

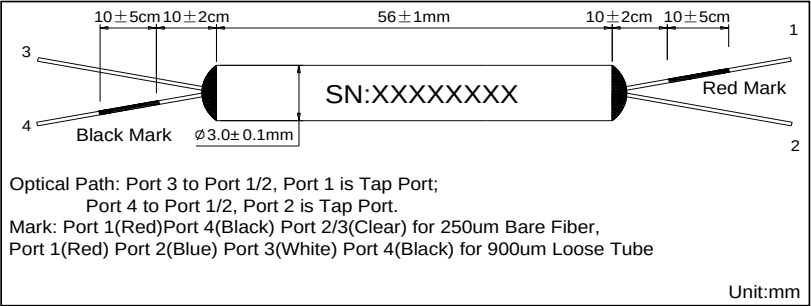
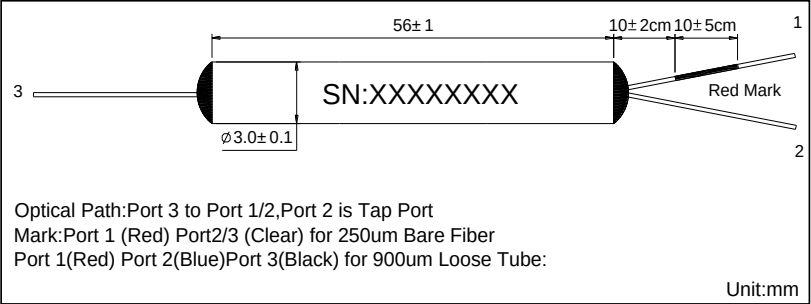
*Above specifications are for device without connector.

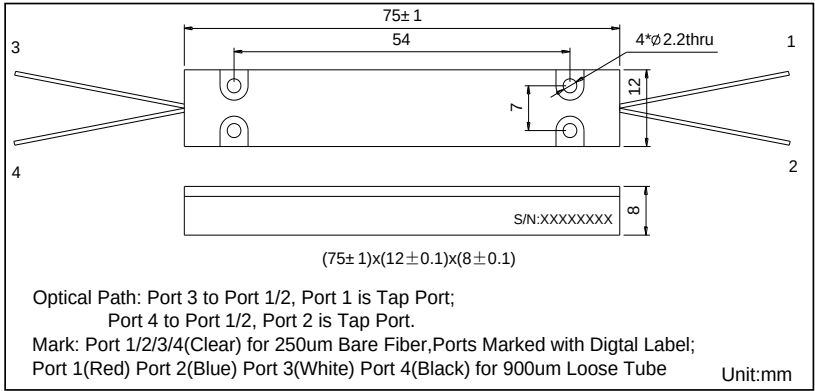
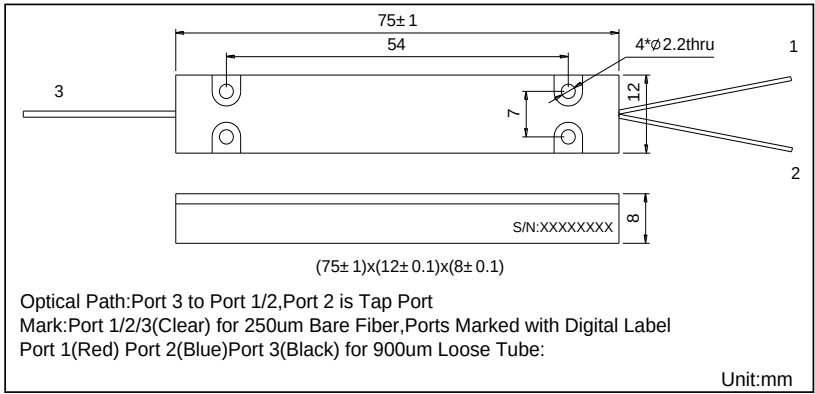
*For devices with connectors, IL will be 0.3dB (1310~2000) or 0.5dB (980~1064) higher, ER will be 2dB lower, RL will be 5dB lower and optical power is only 1W.

*The PM fiber and the connector key are aligned to the slow axis.

* The material must be RoHS compliant.

Package Dimensions





Ordering Information

HPMSMC-①①-②-③③-④④-⑤⑤⑤⑤-⑥⑥⑥⑥-⑦-⑧⑧-⑨⑨

①①: Wavelength

98 - 980nm

03 - 1030nm

06 - 1064nm

31 - 1310nm

55 - 1550nm

19 - 1940nm

20 - 2000nm

SS - Specify

③③: Coupling Ratio

01 - 1/99

02 - 2/98

05 - 5/95

10 - 10/90

20 - 20/80

30 - 30/70

40 - 40/60

50 - 50/50

SS - Specify

⑤⑤⑤⑤: Connector Type

1B - FC/UPC

2B - FC/APC

3B - SC/UPC

4B - SC/APC

N - None

S - Specify

⑥⑥⑥⑥: Fiber Jacket

B - 250um Bare Fiber

⑧⑧: Fiber Type

01 - PM 980 Fiber

02 - PM 980 Fiber(长飞)

03 - Nufern PM980-XP fiber

04 - PM1550 Fiber

05 - PM 1550 Fiber(长飞)

06 - Nufern PM1550-XP Fiber

30 - PM1950 Fiber

⑨⑨: Package Size

16 - ϕ 3.0×56

27 - 75×12×8

S - Specify

②: Port

1 - 1X2

2 - 2X2

④④:Handling Power

01 - 1W

03 - 3W

05 - 5W

10 - 10W

20 - 20W

SS - Specify

⑦: Fiber Length

1 - 1.0m

S - Specify

High Power Single Mode Standard Coupler 9xx~20xxnm 20~50W

Spec No.: CAT-03-016B

Date:

Specifications

Wavelength		980±10,1030±10,1060±10nm	1310,1480,1550±20nm	1940,2000±20nm
Parameter				
Max. IL(dB)	CR			
	50/50	3.6	3.5	3.7
	40/60	4.6/2.8	4.5/2.7	4.9/2.9
	30/70	5.9/2.2	5.8/2.0	6.0/2.2
	20/80	7.9/1.5	7.7/1.3	7.9/1.6
	10/90	11/0.9	10.85/0.75	11.2/0.95
	5/95	14.5/0.6	14/0.45	14.5/0.65
	3/97	16.5/0.5	16.35/0.35	17.0/0.55
	2/98	18.4/0.45	18.25/0.35	18.5/0.55
	1/99	21.8/0.4	21.5/0.3	22.0/0.5
	0.1/99.9	28~32/0.4	28~32/0.3	28~32/0.5
Max. PDL(dB)	CR≥30%	0.1	0.1	0.1
	30%>CR≥1%	0.15	0.15	0.15
	CR<1%	NA		
Min. Return Loss (dB)		50		
Min. Directivity (dB)		50		
Max. Power handling (W)		1, 5, 10, 20		
Operating temperature(℃)		-5~75		
Storage temperature (℃)		-40~85		
Fiber type		HI1060 Fiber, HI1060 Flex Fiber	SMF-28e Fiber	SMF-28e Fiber, SM1950 Fiber
Dimension:(mm)	Power handling 10W	Ø3×56		
	Power handling 20W	75×12×8		

*Above specifications are for device without connector.

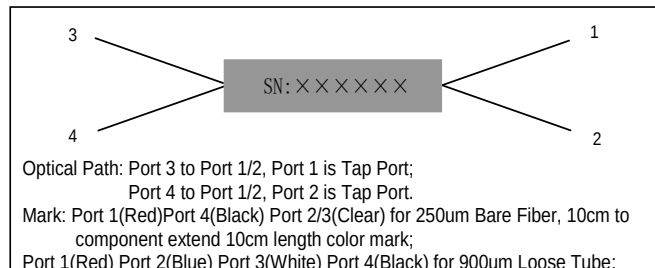
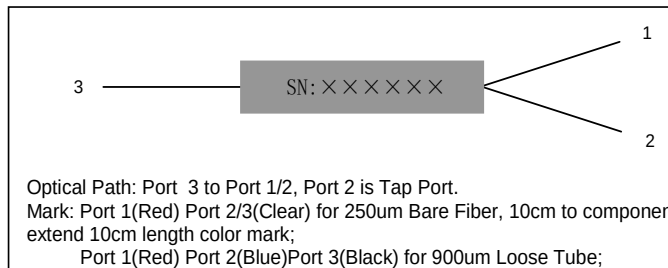
*For devices with connectors, IL should be 0.3dB(1310~1550) or 0.5dB(980~1060) or 0.3dB(1940~2000) higher, and RL will be 5dB lower,Max.

Power handling only 1W.

*Port Mark with Digital labeling.

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPSMC-①①-②-③③-④④-⑤⑤⑤⑤-⑥⑥⑥⑥-⑦-⑧⑧-⑨⑨

①①: Wavelength

98 - 980nm

03 - 1030nm

06 - 1060nm

31 - 1310nm

55 - 1550nm

19- 1940nm

20 - 2000nm

SS - Specify

③③: Coupling Ratio

0.1 - 0.1/99.9

01 - 1/99

02 - 2/98

03 - 3/97

05 - 5/95

10 - 10/90

20 - 20/80

30 - 30/70

40 - 40/60

50 - 50/50

SS - Specify

④④:Max. Power handling (W)

01 - 1W

05 - 5W

10 - 10W

20 - 20W

S - Specify

⑥⑥⑥⑥: Fiber Jacket

B -250um Bare Fiber

C - 900um Loose Tube(Red)

D - 900um Loose Tube(Blue)

E - 900um Loose Tube(Black)

F - 900um Loose Tube(White)

⑧⑧: Fiber Type

1E - HI1060 Fiber

20 - HI1060 Flex Fiber

09 - SMF-28e Fiber

29 - SM1950 Fiber

⑨⑨: Package

16 - Ø3×56

27 - 75×12×8

⑤⑤⑤⑤: Connector Type

1B - FC/UPC

2B - FC/APC

3B - SC/UPC

4B - SC/APC

N - None

S - Specify

⑦: Fiber Length

1 - 1.0m

S - Specify

②: Port

1 - 1X2

2 - 2X2

Single Mode Standard Coupler 15xxnm 500mW

Spec No.: CAT-03-005F

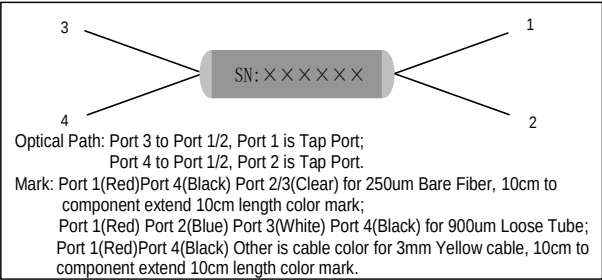
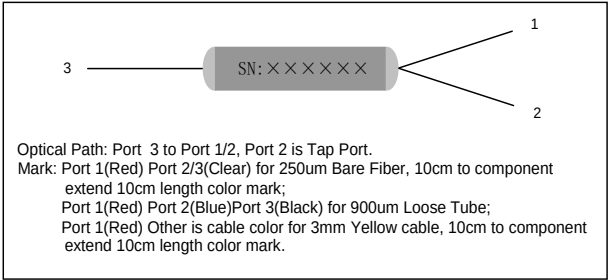
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Specifications

Parameters	Unit	Values									
Center Wavelength	nm	1310 or 1550									
Operating Wavelength Range	nm	±20									
Coupling Ratio	%	1/99	2/98	3/97	5/95	10/90	20/80	30/70	40/60	50/50	
Max. Insertion Loss (Tap/Through Port)	dB	21.5/0.2	18.5/0.3	16.5/0.3	14.6/0.4	10.8/0.6	7.4/1.2	5.6/1.8	4.4/2.5	3.4	
Max. PDL (Tap/Through Port)	dB	0.3/0.05	0.3/0.05	0.3/0.05	0.3/0.05	0.25/0.05	0.25/0.05	0.25/0.05	0.25/0.05	0.1	
Min. Return Loss	dB	50									
Min. Directivity	dB	50									
Max. Optical Power (CW)	mW	500									
Max. Tensile Load	N	5									
Thermal Stability	dB/°C	≤ 0.002 over -5 °C to +70 °C									
Operating Temperature	°C	-5 to + 70									
Storage Temperature	°C	-40 to + 85									
Fiber Type	-	SMF-28e Fiber									
Package Dimensions	mm	250um Bare Fiber							Ø3.0X40		
		900um Loose Tube							Ø3.0X56		
		3mm Loose Cable							90X16X9		

- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lower.
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

SMC-①①-②-③③-④④④④-⑤⑤⑤⑤-⑥-⑦⑦-⑧⑧

①①: Wavelength

31 - 1310nm

55 - 1550nm

SS - Specify

②: Port

1 - 1X2

2 - 2X2

③③: Coupling Ratio

01 - 1/99

02 - 2/98

03 - 3/97

05 - 5/95

10 - 10/90

20 - 20/80

30 - 30/70

40 - 40/60

50 - 50/50

SS - Specify

④④④④: Connector Type

1B - FC/UPC

2B - FC/APC

3B - SC/UPC

4B - SC/APC

N - None

S - Specify

⑤⑤⑤⑤: Fiber Jacket

B -250um Bare Fiber

C - 900um Loose Tube(Red)

D - 900um Loose Tube(Blue)

E - 900um Loose Tube(Black)

F - 900um Loose Tube(White)

T - 3mm松套管(黄色)

⑥: Fiber Length

1 - 1.0m

S - Specify

⑦⑦:Fiber Type

09 - SMF-28e Fiber

⑧⑧:Package Dimensions

14 - Ø3.0X40

16 - Ø3.0X56

29 - 90x16x9

High Power Muti-Mode Standard Coupler

Spec No.: CAT-03-014B

Date:

Specifications

Wavelength		915,975±15nm
Parameter		
Max. IL(dB)	CR	
	50/50	4
	40/60	5.0/3.0
	30/70	6.3/2.4
	20/80	8.1/1.8
	10/90	11.6/1.2
	5/95	15.0/1.0
	3/97	16.5/0.95
	2/98	18.6/0.9
	1/99	21.5/0.8
Min. Return Loss (dB)		40
Max. Power handling (W)		1, 5, 10, 20, 30
Operating temperature(℃)		-5~75
Storage temperature (℃)		-40~85
Fiber type		105/125 0.15NA or 0.22NA
Dimension:	Power handling 5W	Ø3×56
	Power handling 30W	75×12×8

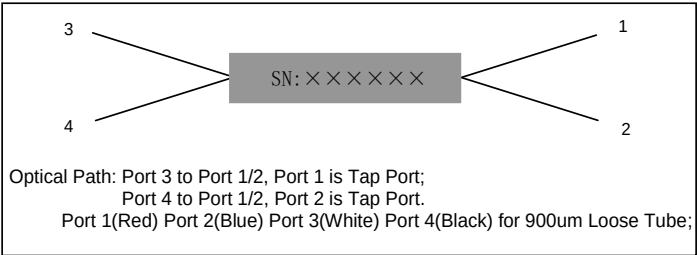
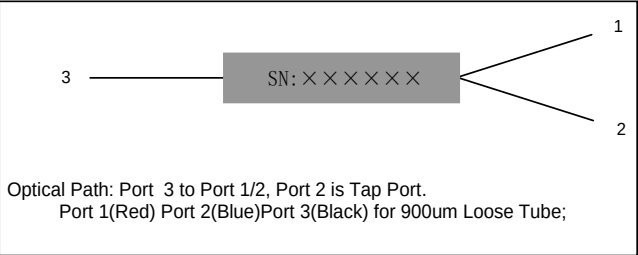
*Above specifications are for device without connector.

*For devices with connectors, IL should be 0.3dB higher, and RL will be 20dB lower,Max. Power handling only 1W.

*Port Mark with Digital labeling.

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

HMHC-①①-②-③③-④④-⑤⑤⑤⑤-⑥⑥⑥⑥-⑦-⑧⑧-⑨⑨

①①: Wavelength 91 - 915nm 97 - 975nm S - Specify	③③: Coupling Ratio 01 - 1/99 02 - 2/98 03 - 3/97 05 - 5/95 10 - 10/90 20 - 20/80 30 - 30/70 40 - 40/60 50 - 50/50 S - Specify	④④: Max. Power handling (W) 01 - 1W 05 - 5W 10 - 10W 20 - 20W 30 - 30W	⑥⑥⑥⑥: Fiber Jacket B - 250um Fiber	⑧⑧: Fiber Type 07 - MM-S105/125-22A Fiber 08 - MM-S105/125-15A Fiber S - Specify
②: Port 1 - 1X2 2 - 2X2		⑤⑤⑤⑤: Connector Type 1B - FC/UPC 2B - FC/APC 3B - SC/UPC 4B - SC/APC N - None S - Specify	⑦: Fiber Length 1 - 1.0m S - Specify	⑨⑨: Package 27- 75×12×8 16 - Ø3.0×56

Polarization Maintaining FWDM 980/1550nm 300mW

Spec No.: CAT-09-032D

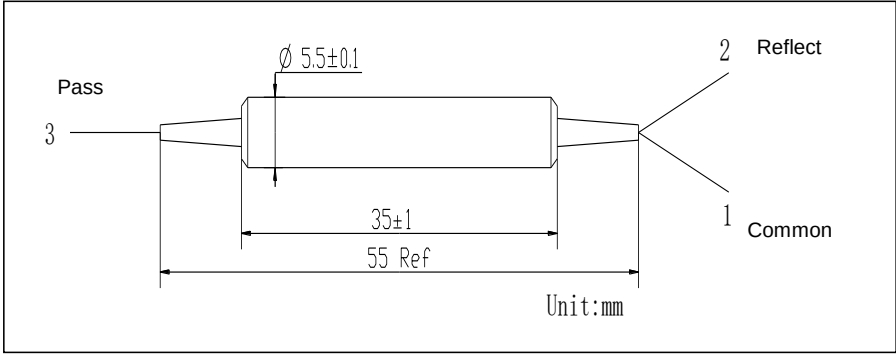
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Specifications

Parameters		Unit	Values
Pass Band	Wavelength Range	nm	1520~1580
	Max. Insertion Loss	dB	0.7
	Typ. Insertion Loss	dB	0.5
	Min. Isolation	dB	25
	Typ. Isolation	dB	30
Reflection Band	Wavelength Range	nm	960~990
	Max. Insertion Loss	dB	0.6
	Typ. Insertion Loss	dB	0.4
	Min. Isolation	dB	12
	Typ. Isolation	dB	15
Min. Return Loss		dB	50
Min. Directivity(over 960~990nm)		dB	60
Min. Extinction Ratio		dB	20
Typ. Extinction Ratio		dB	22
Thermal Stability		dB/℃	≤0.005
Max. Optical Power (CW)		mW	500
Max. Tensile Load		N	5
Fiber Type		-	PM 1550 Panda Fiber for Port 1/3, Hi 1060 Fiber for Port 2
Operating Temperature		℃	-5 to +70
Storage Temperature		℃	-40 to +85

- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 0.3dB higher, ER will be 2dB lower and RL will be 5dB lower.
- *The PM fiber and the connector key are aligned to the slow axis.
- *The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMFWDM-①①①①-②②-③③③-④④④-⑤-⑥⑥-⑦⑦

- ①①①①: Wavelength
5598 - 1550nm Pass / 980nm Reflect

②②: Handling Power
0.5 - 500mW

③③③: Connector Type on Port 1, 2 & 3
1A - FC/UPC
2A - FC/APC
3D - SC/UPC
4D - SC/APC
N - None
S - Specify
- ④④④: Fiber Jacket on Port 1, 2 & 3
B - 250um Bare Fiber
C - 900um Loose Tube(Red)
D - 900um Loose Tube(Blue)
F - 900um Loose Tube(White)
S - Specify

⑤: Fiber Length
0.8 - 0.8m
S - Specify
- ⑥⑥: Fiber Type
04A - PM 1550 for 1/3, Hi 1060 for 2
05A - PM 1550 for 1/3, PM 980 for 2
06A - PM 1550 for 3, PM 980 for 1&2

⑦⑦: Package
01 - Ø5.5x35mm
08 - 80*12*10

FWDM 980/1550nm 1310/1550nm 1480/1550nm 1510/1550nm 300mW

Spec No.:CAT-04-010D

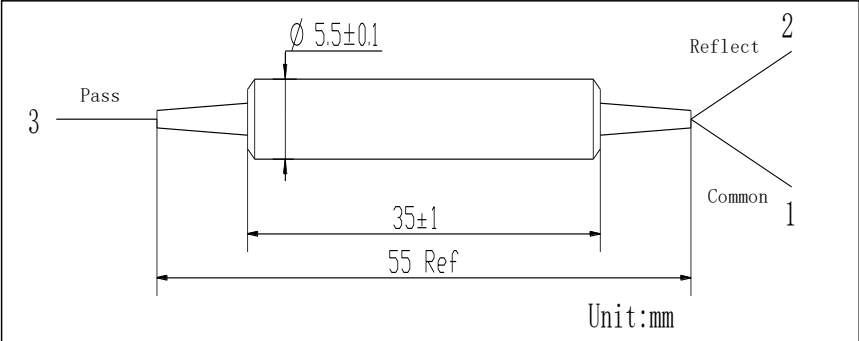
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Specifications

Parameters		Unit	Values			
Pass Band	Wavelength Range	nm	1270-1350 (1530-1600)	1450-1490 (1530-1580)	1500-1520 (1530-1570)	950-1010 (1500-1600)
	Typ. Insertion Loss	dB	0.4	0.4	0.5	0.5
	Max. Insertion Loss	dB	0.6	0.6	0.7	0.7
	Typ. Isolation	dB	35	30	35	35
	Min. Isolation at 23℃	dB	30	25	30	30
Reflection Band	Wavelength Range	nm	1530-1600 (1270-1350)	1530-1580 (1450-1490)	1530-1570 (1500-1520)	1500-1600 (950-1010)
	Typ. Insertion Loss	dB	0.3			
	Max. Insertion Loss	dB	0.5			
	Typ. Isolation	dB	15			
	Min. Isolation at 23℃	dB	12			
Min. Optical Return Loss		dB	50			
Max. PDL		dB	0.1			
Typ. PDL		dB	0.05			
Thermal Stability		dB/℃	≤0.005			
Max. Optical Power (CW)		mW	500			
Max. Tensile Load		N	5			
Fiber Type			SMF-28e Fiber for all ports	SMF-28e Fiber for all ports	SMF-28e Fiber for all ports	SMF-28e Fiber for pass port; HI 1060 Fiber for common and reflect ports.
Operating Temperature		℃	-5 to +70			
Storage Temperature		℃	-40 to +85			

*Above specifications are for device without connector.
*For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lower.

Package Dimensions



Ordering Information

FWDM-①①①①-②②-③③③-④④④-⑤-⑥⑥-⑦⑦

①①①①: Wavelength

3155 - 1310nm Pass / 1550nm Reflect
5531 - 1550nm Pass / 1310nm Reflect
4855 - 1480nm Pass / 1550nm Reflect
5548 - 1550nm Pass / 1480nm Reflect
5155 - 1510nm Pass / 1550nm Reflect
5551 - 1550nm Pass / 1510nm Reflect
5598 - 1550nm Pass / 980nm Reflect

②②: Handling Power

01 - 1W
0.5 - 0.5W
SS - Specify

③③③: Connector Type on Port 1, 2 & 3

1A - FC/UPC
2A - FC/APC(Step)
3A - SC/UPC

N - None

S - Specify

④④④: Fiber Jacket on Port 1, 2 & 3

B - 250um Fiber
F - 900um Loose Tube(White)
S - Specify

⑤: Fiber Length

1 - 1.0m
S - Specify

⑥⑥: Fiber Type

01-SMF-28e
05 - Pump&Common Hi1060,
Signal SMF-28e

⑦⑦: Package Dimensions

01 - Ø5.5x35
02 - Ø5.5x40
03 - Ø5.5x50

High Power Polarization Maintaining FWDM 980/1550nm 10W

Spec No.: CAT-05-048C

Date:

Specifications

Parameters		Unit	Values
Pass Band	Wavelength Range	nm	1520~1580
	Max. Insertion Loss	dB	0.9
	Typ. Insertion Loss	dB	0.7
	Min. Isolation	dB	25
	Typ. Isolation	dB	30
Reflection Band	Wavelength Range	nm	960~990
	Max. Insertion Loss	dB	0.8
	Typ. Insertion Loss	dB	0.6
	Min. Isolation	dB	12
	Typ. Isolation	dB	15
Min. Return Loss		dB	50
Min. Directivity(over 960~990nm)		dB	60
Min. Extinction Ratio		dB	20
Typ. Extinction Ratio		dB	22
Thermal Stability		dB/°C	≤0.005
Max. Optical Power (CW)		W	1, 2, 3 or Specify
Max. Peak Power for ns Pulse		kW	10
Max. Tensile Load		N	5
Fiber Type			PM 1550 Panda Fiber for Port 1/3, Hi 1060 Fiber for Port 2
Operating Temperature		°C	-5 to +70
Storage Temperature		°C	-40 to +85

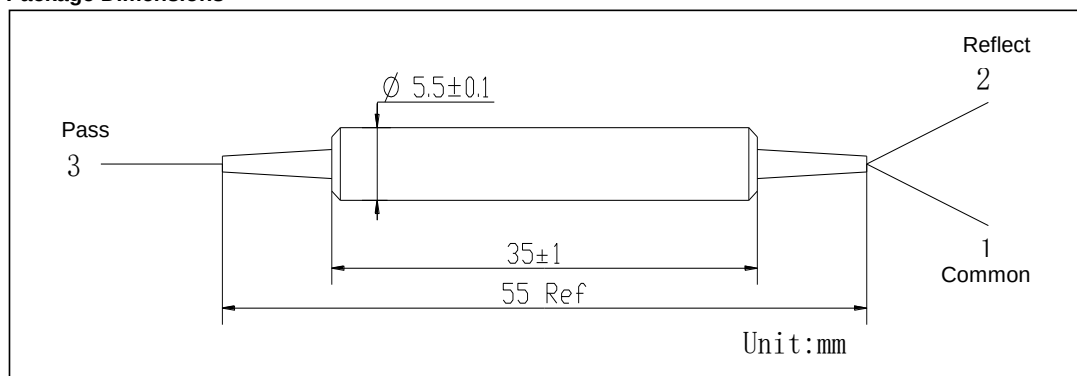
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower , ER will be 2dB lower and optical power is only 1000mW(CW).

*The PM fiber and the connector key are aligned to the slow axis.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMFWDM-①①①①-②②-③③③-④④④-⑤-⑥⑥-⑦⑦

①①①①: Wavelength

5598 - 1550nm Pass / 980nm Reflect

②②: Handling Power

0.5 - 500mW

③③③: Connector Type on Port 1, 2 & 3

1B - FC/UPC

2B - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify

④④④: Fiber Jacket on Port 1, 2 & 3

B - 250um Bare Fiber

C - 900um Loose Tube(Red)

D - 900um Loose Tube(Blue)

F - 900um Loose Tube(White)

S - Specify

⑤: Fiber Length

0.8 - 0.8m

S - Specify

⑥⑥: Fiber Type

04B - PM 1550 for 1/3, Hi 1060 for 2

05B - PM 1550 for 1/3, PM 980 for 2

06B - PM 1550 for 3, PM 980 for 1&2

⑦⑦: Package

01 - Ø5.5x35mm

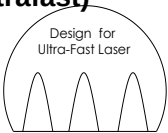
08 - 80*12*10

High Power Polarization Maintaining FWDM 976/1064nm 300mW~10W (For Ultrafast)

CAT-11-001A

Spec No.: CAT-11-001B

Date:

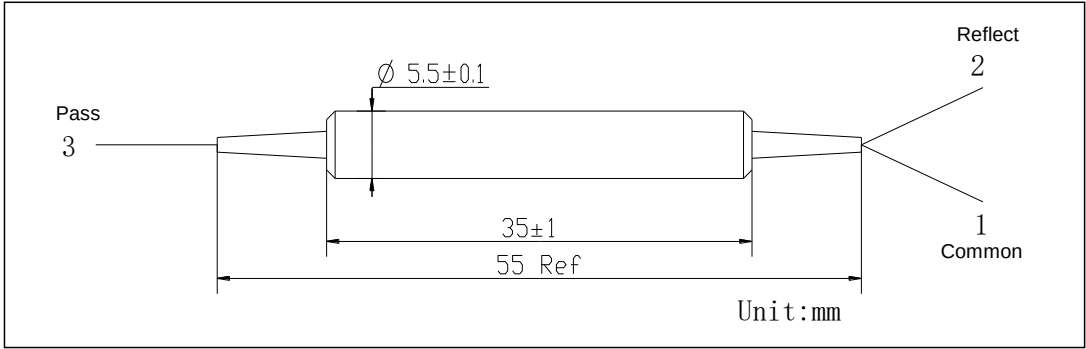


Specifications

Parameters		Unit	Values	
Pass Band	Wavelength Range	nm	960~990	1020~1080
	Max. Insertion Loss	dB	0.9	
	Typ. Insertion Loss	dB	0.7	
	Min. Isolation	dB	25	
	Typ. Isolation	dB	30	
Reflection Band	Wavelength Range	nm	1020~1080	960~990
	Max. Insertion Loss	dB	0.7	
	Typ. Insertion Loss	dB	0.5	
	Min. Isolation	dB	12	
	Typ. Isolation	dB	15	
Min. Return Loss		dB	50	
Min. Extinction Ratio		dB	20	
Typ. Extinction Ratio		dB	22	
Min. Directivity (over Reflection Band)		dB	55	
Thermal Stability		dB/℃	≤0.005	
Signal Handling Power		-	Pulse Width: ps,fs; Pulse Energy: nJ; Peak Power: 0.5KW,1KW,10KW,20KW and so on.	
Max. Tensile Load		N	5	
Fiber Type			PM 980 Panda Fiber	
Operating Temperature		℃	-5 to +70	
Storage Temperature		℃	-40 to +85	

- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower and ER will be 2dB lower.
- *The PM fiber and the connector key are aligned to the slow axis.
- *In this device,both axes is working.
- *The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMFWDM-UF-①①①①-②②-③③-④④④-⑤⑤⑤-⑥-⑦⑦-⑧⑧

- | | | |
|--|--|--|
| ①①①①: Wavelength
9806 - 980nm Pass / 1020~1080nm Reflect
0698 - 1020~1080nm Pass / 980nm Reflect | ④④④④: Connector Type on Port 1, 2 & 3
1A - FC/UPC
2A - FC/APC(Step)
N - None
S - Specify | ⑥: Fiber Length
0.8 - 0.8m
S - Specify |
| ②②: Pump Handling Power
0.5- 0.5W
01 - 1W
S - Specify | ⑤⑤⑤⑤: Fiber Jacket on Port 1, 2 & 3
B - 250um Bare Fiber
C - 900um Loose Tube(Red)
D - 900um Loose Tube(Blue)
F - 900um Loose Tube(White)
S - Specify | ⑦⑦: Fiber Type
01A - PM 980
03A - Hi1060 on 980 Port,
PM 980 on other Ports |
| ③③: Signal Average Power
01 - 01W
SS - Specify | | ⑧⑧: Package
01 - Ø5.5x35mm |

High Power Polarization Maintaining FWDM 976/1064nm 300mW~10W

Spec No.: CAT-05-049C

Date:

Specifications

Parameters		Unit	Values
Pass Band	Wavelength Range	nm	960~990 (1020~1080)
	Max. Insertion Loss	dB	0.9
	Typ. Insertion Loss	dB	0.7
	Min. Isolation	dB	25
	Typ. Isolation	dB	30
Reflection Band	Wavelength Range	nm	1020~1080 (960~990)
	Max. Insertion Loss	dB	0.7
	Typ. Insertion Loss	dB	0.5
	Min. Isolation	dB	12
	Typ. Isolation	dB	15
Min. Return Loss		dB	50
Min. Extinction Ratio		dB	20
Typ. Extinction Ratio		dB	22
Min. Directivity (over Reflection Band)		dB	55
Thermal Stability		dB/°C	≤0.005
Max. Optical Power (CW)		W	1, 2, 3 or Specify
Max. Peak Power for ns Pulse		kW	10
Max. Tensile Load		N	5
Fiber Type			PM 980 Panda Fiber
Operating Temperature		°C	-5 to +70
Storage Temperature		°C	-40 to +85

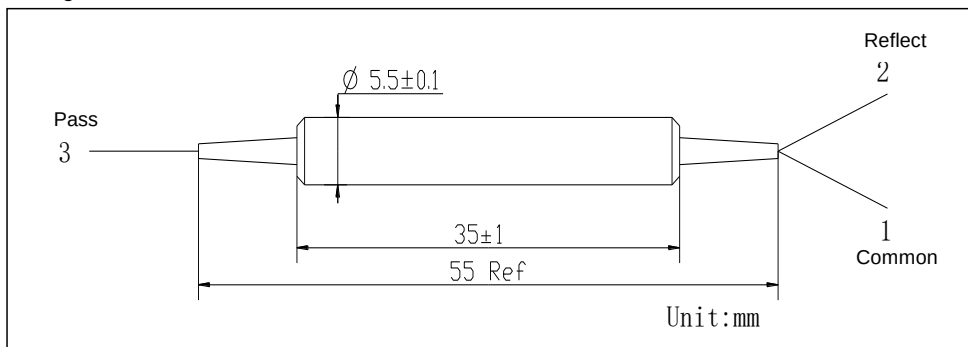
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, ER will be 2dB lower and optical power is only 1000mW(CW).

*The PM fiber and the connector key are aligned to the slow axis.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMFWDM-①①①①-②②-③③③-④④④-⑤-⑥⑥-⑦⑦

①①①①: Wavelength

9806 - 980nm Pass / 1064nm Reflect
 0698 - 1064nm Pass / 980nm Reflect
 9803 - 980nm Pass / 1030nm Reflect
 0398 - 1030nm Pass / 980nm Reflect

②②②: Handling Power

01 - 1W
 02 - 2W
 03 - 3W
 S - Specify

③③③: Connector Type on Port 1, 2 & 3

1B - FC/UPC
 2B - FC/APC
 3D - SC/UPC
 4D - SC/APC
 N - None
 S - Specify

④④④: Fiber Jacket on Port 1, 2 & 3

B - 250um Bare Fiber
 C - 900um Loose Tube(Red)
 D - 900um Loose Tube(Blue)
 F - 900um Loose Tube(White)
 S - Specify

⑤: Fiber Length

0.8 - 0.8m
 S - Specify

⑥⑥: Fiber Type

01B - PM 980
 02 - Nufern PM 1060L
 03B - Hi1060 on 980 Port, PM 980 on other Ports

⑦⑦: Package

01 - Ø5.5x35mm
 08 - 80*12*10

High Power FWDM 980/1550nm 1310/1550nm 1480/1550nm 1510/1550nm 10W

Spec No.: CAT-05-041C

Date:

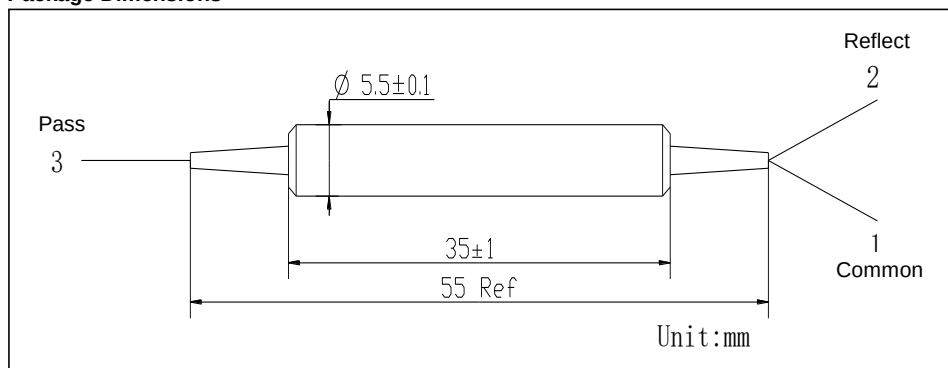
Specifications

Parameters		Unit	Values			
Pass Band	Wavelength Range	nm	1270-1350 (1530-1600)	1450-1490 (1530-1580)	1500-1520 (1530-1570)	950-1010 (1500-1600)
	Typ. Insertion Loss	dB	0.6	0.6	0.7	0.7
	Max. Insertion Loss	dB	0.8	0.8	0.9	0.9
	Typ. Isolation	dB	35	30	35	35
	Min. Isolation at 23℃	dB	30	25	30	30
Reflection Band	Wavelength Range	nm	1530-1600 (1270-1350)	1530-1580 (1450-1490)	1530-1570 (1500-1520)	1500-1600 (950-1010)
	Typ. Insertion Loss	dB	0.5			
	Max. Insertion Loss	dB	0.7			
	Typ. Isolation	dB	15			
	Min. Isolation at 23℃	dB	12			
Min. Optical Return Loss		dB	50			
Max. PDL		dB	0.1			
Typ. PDL		dB	0.05			
Thermal Stability		dB/℃	≤0.005			
Max. Optical Power (CW)		W	1, 2, 3 or Specify			
Max. Peak Power for ns Pulse		kW	10			
Max. Tensile Load		N	5			
Fiber Type			SMF-28e Fiber for all ports			SMF-28e Fiber for pass port; HI 1060 Fiber for common and reflect ports.
Operating Temperature		℃	-5 to +70			
Storage Temperature		℃	-40 to +85			

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lower and optical power is only 1000mW(CW).

*SMF-28e Fiber is used for 1550nm interface and HI 1060 Fiber is used for 980nm channel.

Package Dimensions**Ordering Information****HPFWDM-①①①①-②②-③③③-④④④-⑤-⑥⑥-⑦⑦****①①①①: Wavelength**

3155 - 1310nm Pass / 1550nm Reflect

5531 - 1550nm Pass / 1310nm Reflect

4855 - 1480nm Pass / 1550nm Reflect

5548 - 1550nm Pass / 1480nm Reflect

5155 - 1510nm Pass / 1550nm Reflect

5551 - 1550nm Pass / 1510nm Reflect

5598 - 1550nm Pass / 980nm Reflect

③③③: Connector Type on Port 1, 2 & 3

1B - FC/UPC

2B - FC/APC(Step)

N - None

S - Specify

④④④: Fiber Jacket on Port 1, 2 & 3

B - 250um Fiber

C - 900um Loose Tube(Red)

F - 900um Loose Tube(White)

S - Specify

⑤: Fiber Length

1 - 1.0m

⑥⑥: Fiber Type

01 - SMF-28e

05 - Pump&Common Hi1060,
Signal SMF-28e

S - Specify

⑦⑦: Package Dimensions

X - No Package

01 - Ø5.5x35

②②: Handling Power

05 - 5W

10 - 10W

SS - Specify

High Power FWDM 980/1550nm 1310/1550nm 1480/1550nm 1510/1550nm 10W

Spec No.: CAT-05-043C

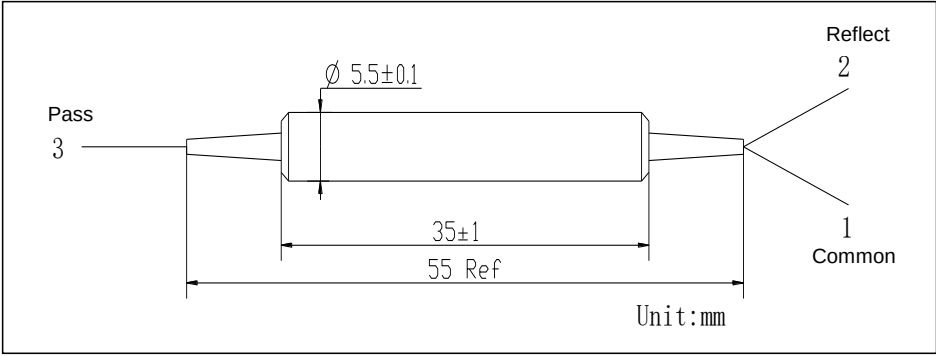
Date:

Specifications

Parameters		Unit	Values			
Pass Band	Wavelength Range	nm	1270-1350	1450-1490	1500-1520	950-1010
			(1530-1600)	(1530-1580)	(1530-1570)	(1500-1600)
	Typ. Insertion Loss	dB	0.6	0.6	0.7	0.7
	Max. Insertion Loss	dB	0.8	0.8	0.9	0.9
	Typ. Isolation	dB	35	30	35	35
	Min. Isolation at 23℃	dB	30	25	30	30
Reflection Band	Wavelength Range	nm	1530-1600	1530-1580	1530-1570	1500-1600
			(1270-1350)	(1450-1490)	(1500-1520)	(950-1010)
	Typ. Insertion Loss	dB	0.5			
	Max. Insertion Loss	dB	0.7			
	Typ. Isolation	dB	15			
	Min. Isolation at 23℃	dB	12			
Min. Optical Return Loss		dB	50			
Max. PDL		dB	0.1			
Typ. PDL		dB	0.05			
Thermal Stability		dB/℃	≤0.005			
Max. Optical Power (CW)		W	1, 2, 3 or Specify			
Max. Peak Power for ns Pulse		kW	10			
Max. Tensile Load		N	5			
Fiber Type			SM Fiber			
Operating Temperature		℃	-5 to +70			
Storage Temperature		℃	-40 to +85			

*Above specifications are for device without connector.
 *For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lower and optical power is only 1000mW(CW).
 *SMF-28e Fiber is used for 1550nm interface and HI 1060 Fiber is used for 980nm channel.
 *The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPFWDM-①①①①-②②-③③③-④④④-⑤-⑥⑥-⑦⑦

①①①①: Wavelength

3155 - 1310nm Pass / 1550nm Reflect
 5531 - 1550nm Pass / 1310nm Reflect
 4855 - 1480nm Pass / 1550nm Reflect
 5548 - 1550nm Pass / 1480nm Reflect
 5155 - 1510nm Pass / 1550nm Reflect
 5551 - 1550nm Pass / 1510nm Reflect
 9855 - 980nm Pass / 1550nm Reflect
 5598 - 1550nm Pass / 980nm Reflect

②②: Handling Power

01 - 01W
 SS - Specify

③③③: Connector Type on Port 1, 2 & 3

1A - FC/UPC
 2A - FC/APC(Step)
 3A - SC/UPC
 N - None
 S - Specify

④④④: Fiber Jacket on Port 1, 2 & 3

B - 250um Fiber
 C - 900um Loose Tube(Red)
 F - 900um Loose Tube(White)
 S - Specify

⑤: Fiber Length

1 - 1.0m
 S - Specify

⑥⑥: Fiber Type

01 - SMF-28e
 05 - Pump&Common Hi1060.
 Signal SMF-28e
 S - Specify

⑦⑦: Package Dimensions

01 - Ø5.5x35

FWDM 976/1064nm 300mW

Spec No.: CAT-04-012C

Date:

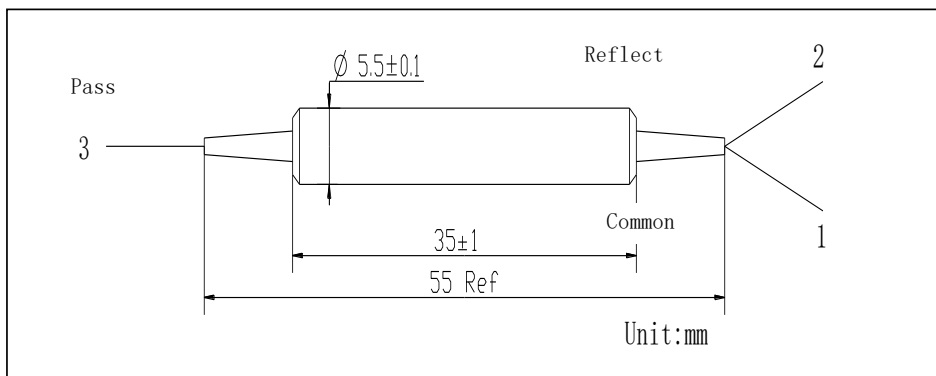
Specifications

Parameters		Unit	Values
Pass Band	Wavelength Range	nm	960-990
	Max. Insertion Loss	dB	0.7
	Typ. Insertion Loss	dB	0.5
	Typ. Isolation	dB	30
	Min. Isolation	dB	25
Reflection Band	Wavelength Range	nm	1020-1080
	Max. Insertion Loss	dB	0.5
	Typ. Insertion Loss	dB	0.3
	Typ. Isolation	dB	15
	Min. Isolation	dB	13
Optical Return Loss		dB	50
Max. PDL		dB	0.1
Typ. PDL		dB	0.05
Thermal Stability		dB/°C	≤0.005
Max. Optical Power (CW)		mW	300
Max. Tensile Load		N	5
Fiber Type			HI 1060 fiber
Operating Temperature		°C	-5 to +70
Storage Temperature		°C	-40 to +85

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower.

*The material must be RoHS compliant.

Package Dimensions**Ordering Information****FWDM-①①①①-②②-③③③-④④④-⑤-⑥⑥-⑦⑦**

①: Wavelength

9806 - 980 Pass/1064 Reflect

9803 - 980 Pass/1030 Reflect

③③③: Connector Type on Port 1, 2 & 3

1B - FC/UPC

2B - FC/APC

N - None

S - Specify

⑤: Fiber Length

0.8 - 0.8m

S - Specify

②②: Handling Power

0.3 - 300mW

S - Specify

④④④: Fiber Jacket on Port 1, 2 & 3

B - 250um Bare Fiber

F - 900um Loose Tube(White)

S - Specify

⑥⑥: Fiber Type

02 - HI1060

10 - Nufern 1060-XP

⑦⑦: Package

01 - $\varnothing 5.5 \times 35$ mm

High Power FWDM 976/1064nm 10W

Spec No.: CAT-05-042C

Date:

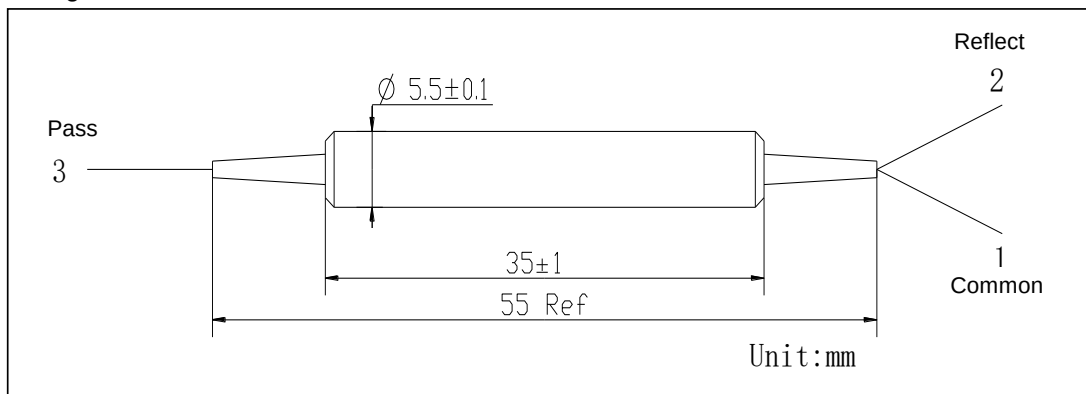
Specifications

Parameters		Unit	Values
Pass Band	Wavelength Range	nm	960-990
	Max. Insertion Loss	dB	0.9
	Typ. Insertion Loss	dB	0.7
	Typ. Isolation	dB	30
	Min. Isolation	dB	25
Reflection Band	Wavelength Range	nm	1020-1080
	Max. Insertion Loss	dB	0.7
	Typ. Insertion Loss	dB	0.5
	Typ. Isolation	dB	15
	Min. Isolation	dB	13
Optical Return Loss		dB	50
Max. PDL		dB	0.1
Typ. PDL		dB	0.05
Thermal Stability		dB/°C	≤0.005
Max. Optical Power (CW)		W	1, 2, 3 or Specify
Max. Peak Power for ns Pulse		kW	10
Max. Tensile Load		N	5
Fiber Type			HI 1060 fiber
Operating Temperature		°C	-5 to +70
Storage Temperature		°C	-40 to +85

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower and optical power is only 1000mW(CW).

Package Dimensions



Ordering Information

HPFWDM-①①①①-②②-③③③-④④④-⑤-⑥⑥-⑦⑦

①①①①: Wavelength

9806 - 980 Pass/1064 Reflect

②②: Handling Power

01 - 1W

SS - Specify

③③③: Connector Type on Port 1, 2 & 3

1A - FC/UPC

2A - FC/APC(Step)

N - None

S - Specify

④④④: Fiber Jacket on Port 1, 2 & 3

B - 250um Fiber

C - 900um Loose Tube(Red)

F - 900um Loose Tube(White)

S - Specify

⑤: Fiber Length

1 - 1.0m

S - Specify

⑥⑥: Fiber Type

02 - HI1060

S - Specify

⑦⑦: Package Dimensions

01 - Ø5.5x35

Polarization Maintaining FWDM 1310/1550nm 1480/1550nm 1510/1550nm 300mW

Spec No.: CAT-09-024D

Date:

Specifications

Parameters		Unit	Values		
Pass Band	Wavelength Range	nm	1270-1350(1530-1600)	1450-1490(1530-1600)	1500-1520(1530-1570)
	Typ. Insertion Loss	dB	0.4	0.4	0.5
	Max. Insertion Loss	dB	0.6	0.6	0.7
	Typ. Isolation	dB	30	30	30
	Min. Isolation	dB	25	25	25
Reflect Band	Wavelength Range	nm	1530-1600(1270-1350)	1530-1600(1450-1490)	1530-1570(1500-1520)
	Typ. Insertion Loss	dB		0.3	
	Max. Insertion Loss	dB		0.5	
	Typ. Isolation	dB		15	
	Min. Isolation	dB		12	
Min. Extinction Ratio		dB	20		
Min. Return Loss		dB	50		
Thermal Stability		dB/°C	≤0.005		
Max. Optical Power (CW)		mW	500		
Max. Tensile Load		N	5		
Fiber Type			PM 1550 Panda Fiber		
Operating Temperature		°C	-5 to +70		
Storage Temperature		°C	-40 to +85		

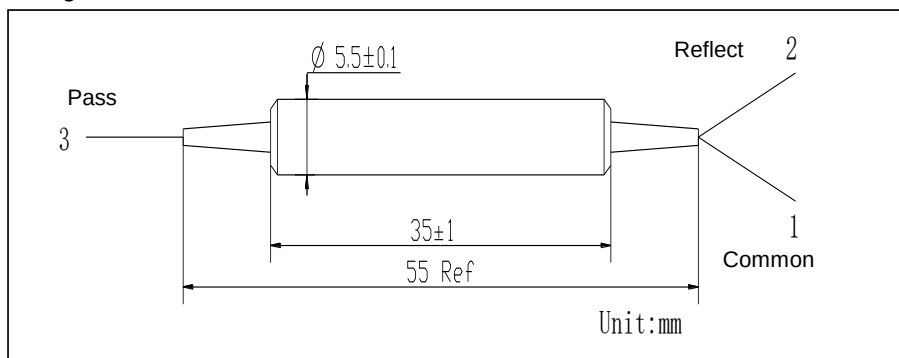
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower.

*The PM fiber and the key are aligned to the slow axis.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMFWDM-①①①①-②②-③③③-④④④-⑤-⑥⑥-⑦⑦

①①①①: Wavelength

③③③③: Connector Type on Port 1, 2 & 3

⑤: Fiber Length

3155 - 1310nm Pass / 1550nm Reflect

1A - FC/UPC

1 - 1.0m

5531 - 1550nm Pass / 1310nm Reflect

2A - FC/APC

S - Specify

4855 - 1480nm Pass / 1550nm Reflect

3D - SC/UPC

5548 - 1550nm Pass / 1480nm Reflect

4D - SC/APC

⑥⑥: Fiber Type

5155 - 1510nm Pass / 1550nm Reflect

N - None

09A - PM1550

5551 - 1550nm Pass / 1510nm Reflect

S - Specify

⑦⑦: Package

②②: Handling Power

④④④: Fiber Jacket on Port 1, 2 & 3

01 - Ø5.5x35mm

High Power Polarization Maintaining FWDM 1310/1550nm 1480/1550nm 1510/1550nm 10W

Spec No.: CAT-05-047C

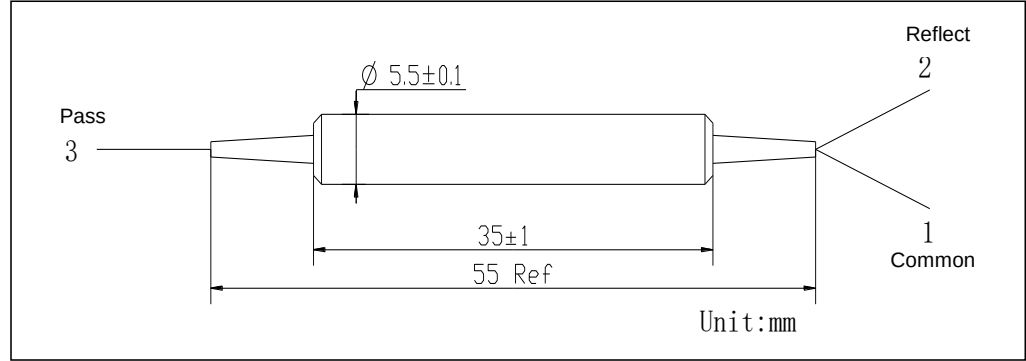
Date:

Specifications

Parameters		Unit	Values		
Pass Band	Wavelength Range	nm	1270-1350(1530-1600)	1450-1490(1530-1600)	1500-1520(1530-1570)
	Typ. Insertion Loss	dB	0.6	0.6	0.7
	Max. Insertion Loss	dB	0.8	0.8	0.9
	Typ. Isolation	dB	30	30	30
	Min. Isolation	dB	25	25	25
Reflection Band	Wavelength Range	nm	1530-1600(1270-1350)	1530-1600(1450-1490)	1530-1570(1500-1520)
	Typ. Insertion Loss	dB	0.5		
	Max. Insertion Loss	dB	0.7		
	Typ. Isolation	dB	15		
	Min. Isolation	dB	12		
Min. Extinction Ratio		dB	20		
Min. Return Loss		dB	50		
Thermal Stability		dB/℃	≤0.005		
Max. Optical Power (CW)		W	1, 2, 3 or Specify		
Max. Peak Power for ns Pulse		kW	10		
Max. Tensile Load		N	5		
Fiber Type			PM Panda Fiber		
Operating Temperature		℃	-5 to +70		
Storage Temperature		℃	-40 to +85		

- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower , ER will be 2dB lower and optical power is only 1000mW(CW).
- *The PM fiber and the key are aligned to the slow axis.
- *The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMFWDM-①①①①-②②-③③③-④④④-⑤-⑥⑥-⑦⑦

- ①①①①: Wavelength

3155 - 1310nm Pass / 1550nm Reflect

5531 - 1550nm Pass / 1310nm Reflect

4855 - 1480nm Pass / 1550nm Reflect

5548 - 1550nm Pass / 1480nm Reflect

5155 - 1510nm Pass / 1550nm Reflect

5551 - 1550nm Pass / 1510nm Reflect
- ③③③: Connector Type on Port 1, 2 & 3

1A - FC/UPC

2A - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify
- ⑤: Fiber Length

0.8 - 0.8m

S - Specify
- ⑥⑥: Fiber Type

09A - PM 1550

22A - PM 1550 for 1/3, SMF-28e for Reflect

23A - PM 1310
- ②②: Handling Power

01 - 1W

SS - Specify
- ④④④: Fiber Jacket on Port 1, 2 & 3

B - 250um Bare Fiber

C - 900um Loose Tube(Red)

D - 900um Loose Tube(Blue)

F - 900um Loose Tube(White)

S - Specify
- ⑦⑦: Package

01 - Ø5.5x35mm

08 - 80*12*10

Polarization Maintaining FWDM 1570/2000nm 300mW

Spec No.: CAT-10-016E

Date:

Specifications

Parameters		Unit	Values	
Pass Band	Wavelength Range	nm	1950~2050	
	Max. Insertion Loss	dB	0.8	
	Typ. Insertion Loss	dB	0.6	
	Min. Isolation	dB	25	
	Typ. Isolation	dB	30	
Reflection Band	Wavelength Range	nm	1550~1590	
	Max. Insertion Loss	dB	0.6	1.2
	Typ. Insertion Loss	dB	0.4	1
	Min. Isolation	dB	12	
	Typ. Isolation	dB	15	
Min. Return Loss		dB	50	
Min. Directivity(over 1550~1590nm)		dB	55	
Min. Extinction Ratio		dB	18	
Typ. Extinction Ratio		dB	20	
Thermal Stability		dB/°C	≤0.005	
Max. Optical Power (CW)		mW	500	
Max. Tensile Load		N	5	
Fiber Type			PM 1550 Fiber , PM 1950 Fiber for All Ports	PM 1950 for Common & Pass, PM 1550 for Reflect
Operating Temperature		°C	-5 to +70	
Storage Temperature		°C	-40 to +85	

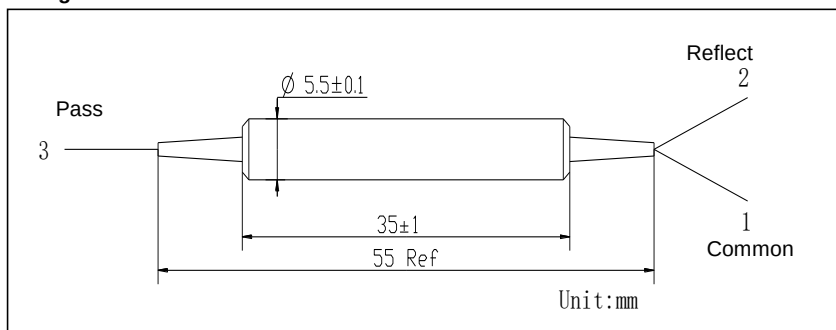
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, ER will be 2dB lower and RL will be 5dB lower.

*The PM fiber and the connector key are aligned to the slow axis.

*The material must be RoHS compliant.

Package Dimensions



PMFWDM-①①①①-②②-③③-④④④-⑤⑤-⑥⑥-⑦

①①①①: Wavelength

2057 - 2000nm Pass / 1570nm Reflect

SSSS - Specify

③③③: Connector Type on Port 1, 2 & 3

1A - FC/UPC

2A - FC/APC (Step)

N - None

S - Specify

⑤⑤: Fiber Length

0.8 - 0.8m

S - Specify

②②: Handling Power

0.5 - 0.5W

SS - Specify

④④④: Fiber Jacket on Port 1, 2 & 3

B - 250um Bare Fiber

C - 900um Loose Tube(Red)

F - 900um Loose Tube(White)

S - Specify

⑥⑥: Fiber Type

09A - PM 1550 Fiber

20 - Nufern PM1950

21A - PM 1550 Fiber at Common & Reflect ports and PM 1950 Fiber at Pass port

37 - PM 1950 for Common & Pass, PM 1550 for Reflect

⑦: Package Size

01 - Ø5.5x35

FWDM 1570/2000nm 300mW

Spec No.: CAT-10-012D

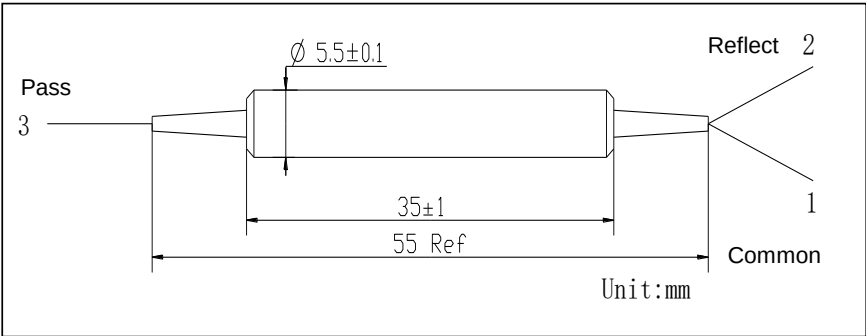
Date:

Specifications

Parameters		Unit	Values
Pass Band	Wavelength Range	nm	1950~2050
	Max. Insertion Loss	dB	0.8
	Typ. Insertion Loss	dB	0.6
	Min. Isolation	dB	25
	Typ. Isolation	dB	30
Reflection Band	Wavelength Range	nm	1550~1590
	Max. Insertion Loss	dB	0.6
	Typ. Insertion Loss	dB	0.4
	Min. Isolation	dB	12
	Typ. Isolation	dB	15
Min. Return Loss		dB	50
Min. Directivity(over 1550~1590nm)		dB	55
Max. PDL		dB	0.1
Typ. PDL		dB	0.05
Thermal Stability		dB/℃	≤0.005
Max. Optical Power (CW)		mW	500
Max. Tensile Load		N	5
Fiber Type			SMF-28e Fiber or Specify
Operating Temperature		℃	-5 to +70
Storage Temperature		℃	-40 to +85

*Above specifications are for device without connector.
*For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lower.

Package Dimensions



Ordering Information

FWDM-①①①①-②②-③③③-④④④-⑤-⑥⑥-⑦⑦

①①①①: Wavelength

2057 - 2000nm Pass / 1570nm Reflect

SSSS - Specify

②②: Handling Power

0.5 - 500mW

③③③: Connector Type on Port 1, 2 & 3

1A - FC/UPC

2A - FC/APC (Step)

N - None

S - Specify

④④④: Fiber Jacket on Port 1, 2 & 3

B - 250um Bare Fiber

F - 900um Loose Tube(White)

S - Specify

⑤: Fiber Length

0.8 - 0.8m

S - Specify

⑥⑥: Fiber Type

01 - SMF-28e Fiber (all ports)

11 - SMF-28e Fiber at Common & Reflect ports
and SM 1950 Fiber at Pass port

S - Specify

⑦⑦:Package

01 - Ø5.5*35mm

High Power Polarization Maintaining FWDM 1570/2000nm 10W

Spec No.: CAT-05-060C

Date:

Specifications

Parameters	Unit	Values
Pass Band	Wavelength Range	1950~2050
	Max. Insertion Loss	1.0
	Typ. Insertion Loss	0.8
	Min. Isolation	25
	Typ. Isolation	30
Reflection Band	Wavelength Range	1550~1590
	Max. Insertion Loss	0.8
	Typ. Insertion Loss	0.6
	Min. Isolation	12
	Typ. Isolation	15
Min. Return Loss	dB	50
Min. Directivity(over 1550~1590nm)	dB	55
Min. Extinction Ratio	dB	18
Typ. Extinction Ratio	dB	20
Thermal Stability	dB/°C	≤0.005
Max. Optical Power (CW)	W	1, 3, 5 or Specify
Max. Tensile Load	N	5
Fiber Type		PM 1550 Fiber, PM 1950 Fiber or Specify
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

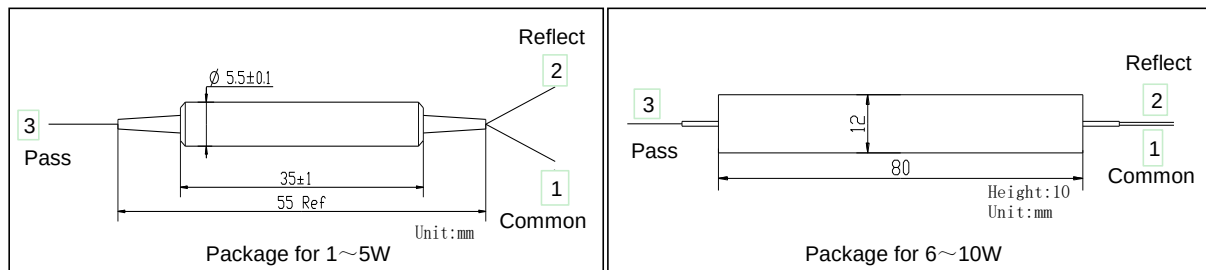
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, ER will be 2dB lower, optical power is only 1W.

*The PM fiber and the connector key are aligned to the slow axis.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMFWDM-①①①①-②②-③③-④④④-⑤⑤-⑥⑥-⑦

①①①①: Wavelength

2057 - 2000nm Pass / 1570nm Reflect

SSSS - Specify

②②: Handling Power

01 - 1W

SS - Specify

③③③: Connector Type on Port 1, 2 & 3

1A - FC/UPC

2A - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify

④④④: Fiber Jacket on Port 1, 2 & 3

B - 250um Bare Fiber

C - 900um Loose Tube(Red)

F - 900um Loose Tube(White)

S - Specify

⑤⑤: Fiber Length

0.8 - 0.8m

S - Specify

⑥⑥: Fiber Type

09A - PM 1550 Fiber

20 - Nufern PM1950

31 - PM1950 Fiber at Common & Reflect ports and PM1550 Fiber at Pass port

⑦: Package Size

01 - Ø5.5x35

08 - 80*12*10

High Power FWDM 1570/2000nm 10W

Spec No.: CAT-05-056C

Date:

Specifications

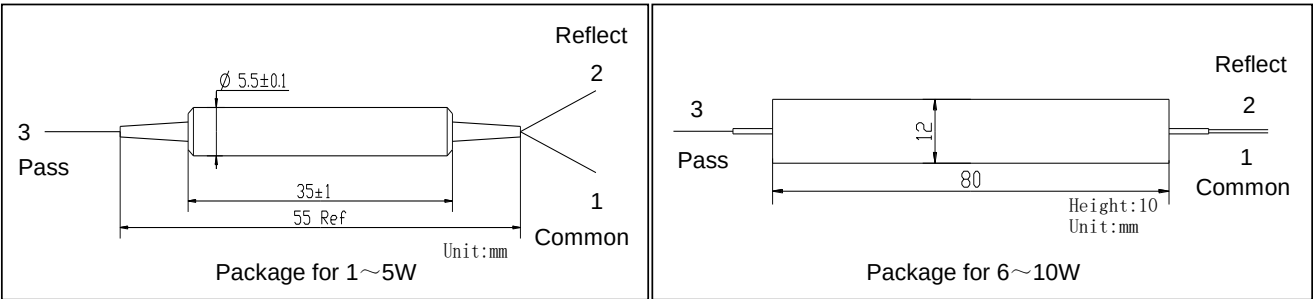
Parameters		Unit	Values
Pass Band	Wavelength Range	nm	1950~2050
	Max. Insertion Loss	dB	0.9
	Typ. Insertion Loss	dB	0.7
	Min. Isolation	dB	25
	Typ. Isolation	dB	30
Reflection Band	Wavelength Range	nm	1550~1590
	Max. Insertion Loss	dB	0.7
	Typ. Insertion Loss	dB	0.5
	Min. Isolation	dB	12
	Typ. Isolation	dB	15
Min. Return Loss		dB	50
Min. Directivity(over 1550~1590nm)		dB	55
Max. PDL		dB	0.1
Typ. PDL		dB	0.05
Thermal Stability		dB/℃	≤0.005
Max. Optical Power (CW)		W	1, 3, 5 or Specify
Max. Tensile Load		N	5
Fiber Type			SMF-28e Fiber, SM 1950 Fiber or Specify
Operating Temperature		℃	-5 to +70
Storage Temperature		℃	-40 to +85

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, optical power is only 1W.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPFWDM-①①①①-②②-③③③-④④④-⑤-⑥⑥-⑦⑦

①①①①: Wavelength

2055 - 2000nm Pass / 1550nm Reflect

SSSS - Specify

②②: Handling Power

01 - 1W

SS - Specify

③③③: Connector Type on Port 1, 2 & 3

1B - FC/UPC

2B - FC/APC(Step)

N - None

S - Specify

④④④: Fiber Jacket on Port 1, 2 & 3

B - 250um Fiber

F - 900um Loose Tube(White)

S - Specify

⑤: Fiber Length

1 - 1.0m

S - Specify

⑥⑥: Fiber Type

12 - SM1950 Fiber

24 - SM1950 at Common/Reflect ports and SM 1950 Fiber at Pass port

⑦⑦: Package Dimensions

01 - Ø5.5x35

08 - 80*12*10

WDM 980/1550nm 300mW~10W

Spec No.: CAT-03-008F

Date:

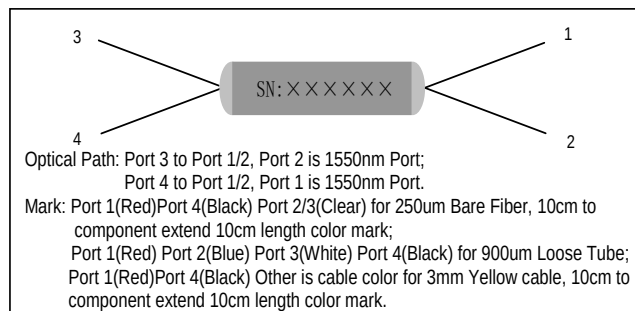
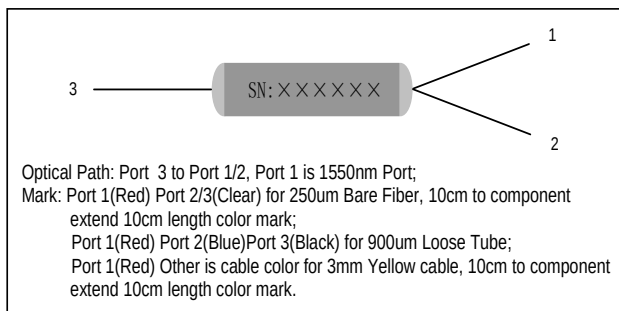
Specifications

Parameters	Unit	Values
Center Wavelength	nm	980&1550
Operating Wavelength Range	nm	±15
Min. Isolation	dB	20
Max. Insertion Loss	dB	0.25
Max. PDL	dB	0.1
Min. Return Loss	dB	50
Min. Directivity	dB	50
Max. Optical Power (CW)	mW	500
Max. Tensile Load	N	5
Thermal Stability	dB/°C	≤ 0.002 over -5°C to +70°C
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85
Fiber Type	-	HI1060 Flex Fiber or HI1060 Fiber
Package Dimensions	mm	250um Bare Fiber Ø3.0X40
		900um Loose Tube Ø3.0X56
		3mm Loose Cable 90X16X9

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lower.

* The material must be RoHS compliant.

Package Dimensions**Ordering Information****WDM-①①①①-②-③③③③-④④④④-⑤-⑥⑥-⑦⑦****①①①①: Wavelength**

9855 - 980 & 1550nm

②: Port

1 - 1X2

2 - 2X2

③③③③: Connector Type

1B - FC/UPC

2B - FC/APC

3B - SC/UPC

4B - SC/APC

N - None

S - Specify

④④④④: Fiber Jacket

B - 250um Bare Fiber

C - 900um Loose Tube(Red)

D - 900um Loose Tube(Blue)

E - 900um Loose Tube(Black)

F - 900um Loose Tube(White)

T - 3mm松套管(黄色)

⑤: Fiber Length

1 - 1m

S - Specify

⑥⑥: Fiber Type

20 - HI1060 Flex Fiber

1E - HI1060 Fiber

⑦⑦: Package Dimensions

14 - Ø3.0x40

16 - Ø3.0x56

29 - 90x16x9

WDM 976/1064nm 300mW~10W

Spec No.: CAT-03-010D

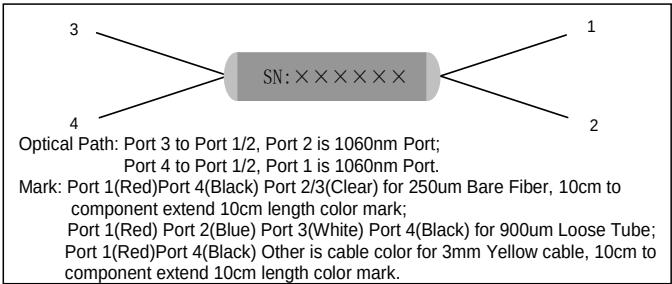
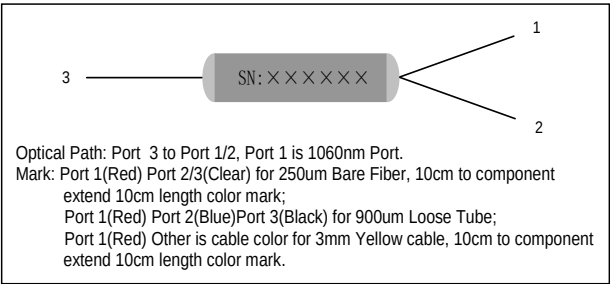
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Specifications

Parameters	Unit	Values
Center Wavelength	nm	980&1060
Operating Wavelength Range	nm	±5
Min. Isolation	dB	15
Max. Insertion Loss	dB	0.35
Max. PDL	dB	0.15
Min. Return Loss	dB	50
Min. Directivity	dB	50
Max. Optical Power (CW)	mW	500
Max. Tensile Load	N	5
Thermal Stability	dB/℃	≤ 0.002 over -5 °C to +70 °C
Operating Temperature	℃	-5 to +70
Storage Temperature	℃	-40 to +85
Fiber Type	-	HI1060 Flex Fiber or HI1060 Fiber
Package Dimensions	mm	250um Bare Fiber Ø3.0X54
		900um Loose Tube Ø3.0X75
		3mm Loose Cable 90X16X9

- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lower.
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

WDM-①①①①-②-③③③③-④④④④-⑤-⑥⑥-⑦⑦

①①①①: Wavelength
9806 - 980 & 1060nm

②: Port Configuration
1 - 1X2
2 - 2X2

③③③③: Connector Type
1B - FC/UPC
2B - FC/APC
3B - SC/UPC
4B - SC/APC
N - None
S - Specify

④④④④: Fiber Jacket
B -250um Bare Fiber
C - 900um Loose Tube(Red)
D - 900um Loose Tube(Blue)
E - 900um Loose Tube(Black)
F - 900um Loose Tube(White)
T - 3mm松套管(黄色)

⑤: Fiber Length
1 - 1m
S - Specify

⑥⑥: Fiber Type
20 - HI1060 Flex Fiber
1E - HI1060 Fiber

⑦⑦: Package Dimensions
13 - Ø3.0x54
77 - Ø3.0x75
29 - 90x16x9

WDM 1310/1550nm 300mW~10W

Spec No.: CAT-03-007E

Date:

Specifications

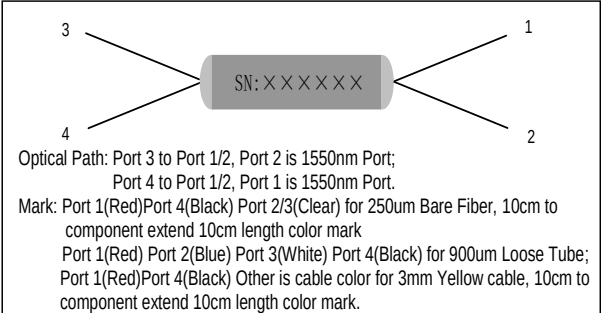
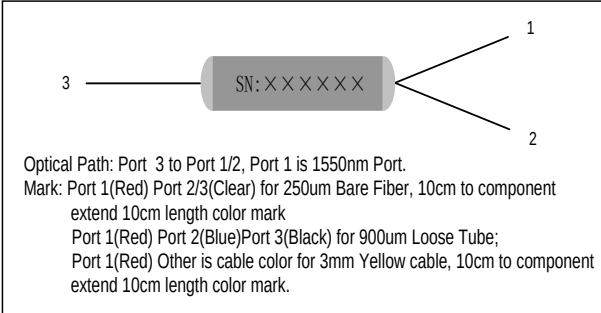
Parameters	Unit	Values	
Center Wavelength		1310&1550	1310&1550
Bandwidth	nm	±10	±15
Min. Isolation	dB	20	17
Max. Insertion Loss	dB	0.3	0.3
Max. PDL	dB	0.15	0.15
Min. Directivity	dB	55	55
Max. Optical Power (CW)	mW	500	
Max. Tensile Load	N	5	
Thermal Stability	dB/℃	≤ 0.002 over -5℃ to +70℃	
Operating Temperature	℃	-5 to +70	
Storage Temperature	℃	-40 to +85	
Fiber Type	-	SMF-28e Fiber	
Package Dimensions	mm	250um Bare Fiber	Ø3.0X40
		900um Loose Tube	Ø3.0X56
		3mm Loose Cable	90X16X9

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher.

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

WDM-①①①①-②-③③③③-④④④④-⑤-⑥⑥-⑦⑦

①①①①: Wavelength
3155 - 1310 & 1550nm

②: Port
1 - 1X2
2 - 2X2

③③③③: Connector Type
1B - FC/UPC
2B - FC/APC
3B - SC/UPC
4B - SC/APC
N - None
S - Specify

④④④④: Fiber Jacket
B -250um Bare Fiber
C - 900um Loose Tube(Red)
D - 900um Loose Tube(Blue)
E - 900um Loose Tube(Black)
F - 900um Loose Tube(White)
T - 3mm松套管(黄色)

⑤: Fiber Length
1 - 1m
S - Specify

⑥⑥: Fiber Type
09 - SMF-28e Fiber

⑦⑦: Package Dimensions
14 - Ø3. 0x40
16 - Ø3. 0x56
29 - 90x16x9

WDM 1480/1550nm 300mW~10W

Spec No.: CAT-03-013C

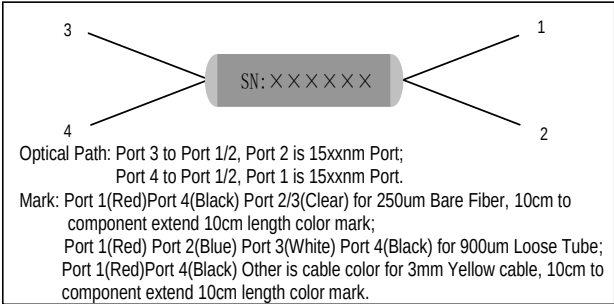
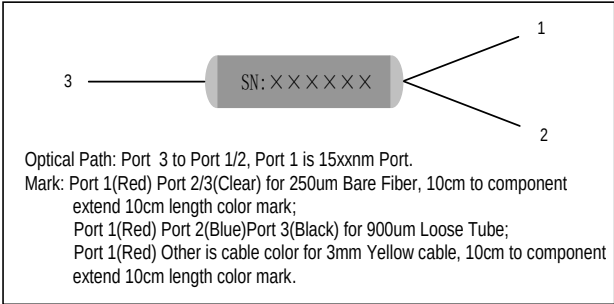
Date:

Specifications

Parameters	Unit	Values		
Center Wavelength	nm	1490/1550	1480/1550	1480/1590
Operating Wavelength Range	nm	±5	±5	±5
Min. Isolation	dB	11	13	15
Max. Insertion Loss	dB	0.55	0.4	0.4
Max. PDL	dB	0.15	0.15	0.15
Min.Return Loss	dB	50	50	50
Min.Directivity	dB	50	50	50
Max. Optical Power (CW)	mW	500		
Max. Tensile Load	N	5		
Thermal Stability	dB/°C	≤ 0.002 over -5 °C to +70 °C		
Operating Temperature	°C	-5 to +70		
Storage Temperature	°C	-40 to +85		
Fiber Type		SMF-28e Fiber		
Package Dimensions	mm	250um Bare Fiber		Ø3.0X55
		900um Loose Tube		Ø3.0X75
		3mm Loose Cable		90X16X9

- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lower.
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

WDM-①①①①-②-③③③③-④④④④-⑤-⑥⑥-⑦⑦

①①①①: Wavelength

4955 - 1490/1550

4855 - 1480/1550

4859 - 1480/1590

②: Port

1 - 1X2

2 - 2X2

③③③③: Connector Type

1B - FC/UPC

2B - FC/APC

3B - SC/UPC

4B - SC/APC

N - None

S - Specify

④④④④: Fiber Jacket

B -250um Bare Fiber

C - 900um Loose Tube(Red)

D - 900um Loose Tube(Blue)

E - 900um Loose Tube(Black)

F - 900um Loose Tube(White)

T - 3mm松套管(黄色)

⑤: Fiber Length

1 - 1m

S - Specify

⑥⑥:Fiber Type

09 - SMF-28e Fiber

⑦⑦:Package Dimensions

13 - Ø3.0x55

77 - Ø3.0x75

29 - 90x16x9

Polarization Maintaining Band Pass Filter 980nm 300mW

Spec Review No.: SR0712014D

Date: Oct. 9, 2023

Specifications

Parameters	Unit	Values
Nominal Center Wavelength	nm	980
Max. Insertion Loss over 960~990nm	dB	0.8
Stop Band	nm	1020~1100
Min. Stop Band Isolation	dB	30
Min. Extinction Ratio (only for F-Type)@23 °C	dB	22
Min. Extinction Ratio (only for B-Type)@23 °C	dB	20
Min. Optical Return Loss	dB	50
Max. Optical Power(CW,SOP)	mW	500
Max. Tensile Load	N	5
Fiber Type	--	PM 980 Panda Fiber
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

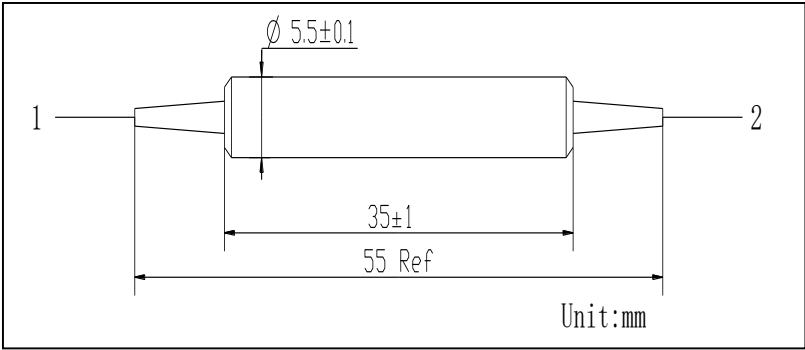
*Above specification are for devices without connector.

*For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower, ER will be 2dB lower.

*The PM fiber and the connector key are aligned to the slow axis.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMBPF-①①①①-②②-③③-④④-⑤-⑥⑥-⑦⑦-⑧-⑨⑨-⑩⑩

①①①①: Center Wavelength
9806- 960~990nm/1020~1100nm
SSSS - Specify

②②: Pass Band Width
30 - 30nm
SS - Specify

③③: Stop Band Width
80 - 80nm
SS - Specify

④④: Handling Power
0.5 - 500mW
SS - Specify

⑤: Axis Alignment
F - Fast Axis Blocked
B - Both Axis Working

⑥⑥: Connector Type on Port 1, 2
1B - FC/UPC
2B - FC/APC (Step)
3D - SC/UPC
4D - SC/APC (Step)
SS - Specify
N - None

⑦⑦: Fiber Jacket on Port 1, 2
B - 250um Bare Fiber
C - 900um Loose Tube(Red)
D - 900um Loose Tube(Blue)
E - 900um Loose Tube(Black)
SS - Specify

⑧: Fiber Length
0.8 - 0.8 m
S - Specify

⑨⑨:Fiber Type
02B -PM980 Fiber

⑩⑩ Package Type
01 - Ø5.5x35

High Power Polarization Maintaining Band Pass Filter 980nm 300mW

Spec Review No.: SR2305042A

Date: May.12, 2023

Specifications

Parameters	Unit	Values
Operating Wavelength Range	nm	800~1300
Nominal Center Wavelength(CWL)	nm	980
Min. Pass Band Width @0.5dB	nm	4.0
Max. Stop Band width @25dB	dB	12
Typ. Insertion Loss @980±2nm	dB	1.0
Max. Insertion Loss @980±2nm	dB	1.3
Min. Extinction Ratio (only for B-Type)	dB	20
Min. Extinction Ratio (only for F-Type)	dB	22
Min. Optical Return Loss	dB	50
Max. Optical Power(CW)	W	1
Max. Tensile Load	N	5
Fiber Type	-	PM 980 Panada Fiber
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

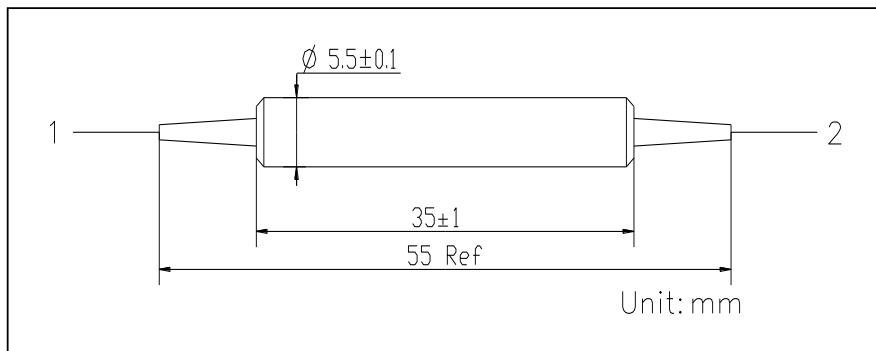
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower, ER will be 2dB lower and optical power is only 1000mW.

*The PM fiber and the connector key are aligned to the slow axis.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMBPF-①①①-②②-③③-④-⑤-⑥⑥-⑦⑦-⑧-⑨⑨-⑩⑩

①①: Center Wavelength

980 - 980nm

SS - Specify

②②: Pass Band Width

04 - 4nm

SS - Specify

③③: Stop Band Width

12 - 12nm

SS - Specify

④: Handling Power

01 - 1W

S - Specify

⑤: Axis Alignment

F - Fast Axis Blocked

B - Both Axis Working

⑥⑥: Connector Type on Port 1, 2

1A - FC/UPC

2A - FC/APC

3D - SC/UPC

4D - SC/APC

S - Specify

N - None

⑦⑦: Fiber Jacket on Port 1, 2

B - Bare Fiber

C - 900um Loose Tube(Red)

D - 900um Loose Tube(Blue)

E - 900um Loose Tube(Black)

S - Specify

⑧: Fiber Length

0.8 - 0.8 m

S - Specify

⑨⑨: Fiber Type

02A - PM980 Fiber

⑩⑩ Package Type

01 - Ø5.5x35

Band Pass Filter 980nm 300mW

Spec Review No.: SR2303059B

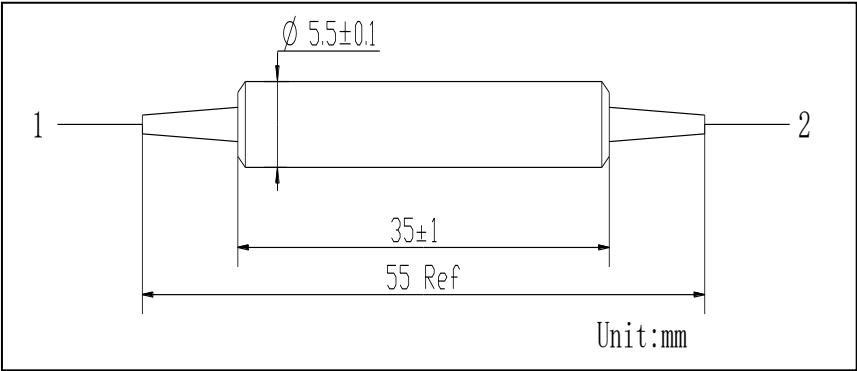
Date:Apr.23, 2023

Specifications

Parameters	Unit	Values
Nominal Center Wavelength	nm	980
Max. Insertion Loss over 960~990nm	dB	0.8
Stop Band	nm	1020~1100
Min. Stop Band Isolation	dB	30
Max. PDL	dB	0.1
Min. Optical Return Loss	dB	50
Max. Optical Power(CW)	mW	500
Max. Tensile Load	N	5
Fiber Type	--	Corning HI 1060 Fiber
Operating Temperature	℃	-5 to +70
Storage Temperature	℃	-40 to +85

*Above specifications are for device without connector.
*For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower.
*The material must be RoHS compliant.

Package Dimensions



Ordering Information

BPF-①①①①-②②-③③-④④-⑤⑤-⑥⑥-⑦-⑧⑧-⑨⑨

①①①①: Center Wavelength 9806- 960~990nm/1020~1100nm	⑤⑤: Connector Type on Port1,2 1B - FC/UPC 2B - FC/APC 3B - SC/UPC 4B - SC/APC N - None	⑦: Fiber Length 0.8 - 0.8 m S - Specify
②②: Pass Band Width 30 - 30nm SS - Specify	⑥⑥: Fiber Jacket on Port 1,2 B - 250um Bare Fiber F - 900um Loose Tube(White) G - 900um Loose Tube(Yellow) E - 900um Loose Tube(Black) S - Specify	⑧⑧:Fiber Type 01 - HI-1060 Fiber
③③: Stop Band Width 80 - 80nm SS - Specify	⑨⑨: Package Type 01 - Ø5.5x35	
④④: Handing Power 0.5 - 500mW S - Specify		

Multi-Mode Band Pass Filter 980nm 10W

Spec Review No.:SR2306105A

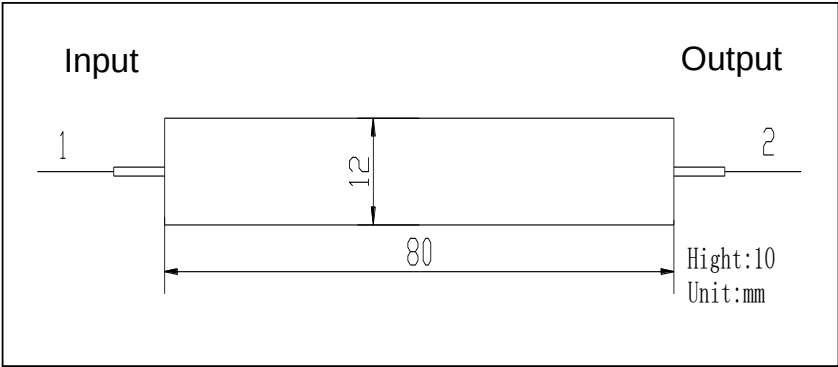
Date: Jun. 27, 2023

Specifications

Parameters	Unit	Values
Pass Band Wavelength Range	nm	960~990
Max. Insertion Loss over 960~990nm	dB	0.6
Stop Band Wavelength Range	nm	1020~1120
Min. Stop Band Isolation	dB	30
Min. Optical Return Loss	dB	30
Max. Optical Power (CW,Only for 960~990nm)	W	30
Max. Tensile Load	N	5
Fiber Type	---	MMF105/125,NA.0.22
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

*Above specifications are for device without connector.
*For devices with connectors, IL will be 0.2dB higher, RL will be 20dB lower, optical power is only 2W.
*The material must be RoHS compliant.

Package Dimensions



Ordering Information

MMBPF-①①①①-②②-③③-④-⑤⑤-⑥⑥-⑦-⑧⑧-⑨⑨

①①①①: Wavelength

9706- 960~990nm/1020~1120nm

SSSS - Specify

②②: Pass Band Width

30 - 30nm(960~990nm)

SS - Specify

③③: Stop Band Width

100 - 100nm(1020~1120nm)

SS - Specify

④:Handling Power

30 - 30W

S - Specify

⑤⑤: Connector Type on Port 1, 2

1B - FC/UPC

2B - FC/APC (Step)

3D - SC/UPC

4D - SC/APC (Step)

N - None

S - Specify

⑥⑥: Fiber Jacket on Port 1, 2

B - 250um Fiber

E - 900um Loose Tube(Black)

H - 900um Loose Tube(Green)

S - Specify

⑦: Fiber Length

0.8 - 0.8m

S - Specify

⑧⑧:Fiber Type

04 - MM Fiber 105/125.NA0.22

S - Specify

⑨⑨ Package Type

08 - 80*12*10

Polarization Maintaining Band Pass Filter 1030nm 300mW

Spec Review No.: SR2301721A

Date: Apr.23, 2023

Specifications

Parameters	Unit	Values
Nominal Center Wavelength	nm	1030
Max. Insertion Loss over CWL+/-1.0nm	dB	1.2
Min. Pass Band Width @0.5dB	nm	2.0
Max. Stop Band Width @25dB	nm	8.0
Min. Extinction Ratio (only for F-Type)@23℃	dB	22
Min. Extinction Ratio (only for B-Type)@23℃	dB	20
Min. Optical Return Loss	dB	50
Max. Optical Power(CW)	mW	300
Max. Tensile Load	N	5
Fiber Type	--	PM 980 Panda Fiber
Operating Temperature	℃	-5 to +70
Storage Temperature	℃	-40 to +85

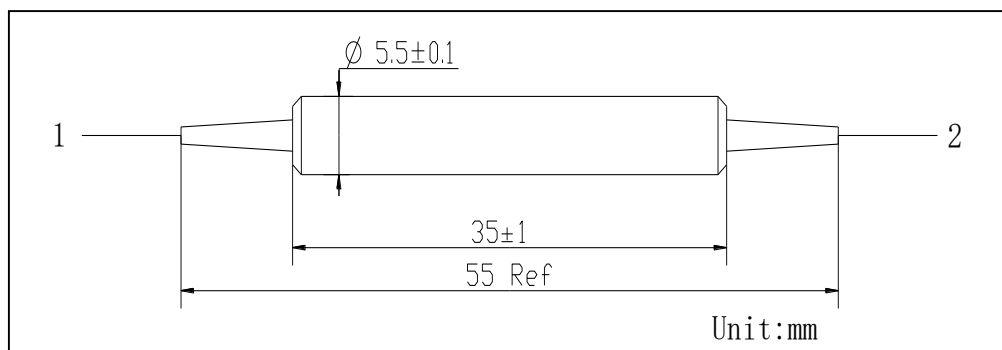
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.5dB higher, ER will be 2dB lower and RL will be 5dB lower.

*The PM fiber and the connector key are aligned to the slow axis.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMBPF-①①①①-②②-③③-④-⑤-⑥⑥-⑦⑦-⑧-⑨⑨-⑩⑩

①①①①: Center Wavelength

1030 - 1030 nm

SSSS - Specify

②②: Pass Band Width

02 - 2.0 nm

SS - Specify

③③: Stop Band Width

08 - 8 nm

SS - Specify

④: Handling Power

0.3 - 300mW

S - Specify

⑤: Axis Alignment

F - Fast Axis Blocked

B - Both Axis Working

⑥⑥: Connector Type on Port 1, 2

1B - FC/UPC

2B - FC/APC

3B - SC/UPC

4B - SC/APC

S - Specify

N - None

⑦⑦: Fiber Jacket on Port 1, 2

B - Bare Fiber

C - 900um Loose Tube(Red)

D - 900um Loose Tube(Blue)

E - 900um Loose Tube(Black)

S - Specify

⑧: Fiber Length

0.8 - 0.8 m

S - Specify

⑨⑨: Fiber Type

02B - PM980 Fiber

⑩⑩ Package Type

01 - Ø5.5x35

Band Pass Filter 1030nm 300mW

Spec Review No.: SR1409012B

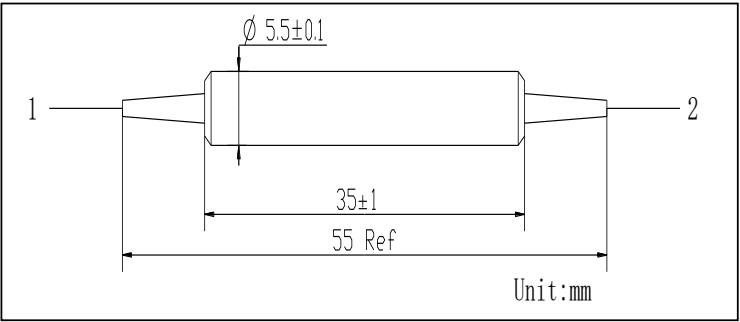
Date: Apr.21, 2023

Specifications

Parameters	Unit	Values
Nominal Center Wavelength	nm	1030
Max. Insertion Loss	dB	1.0
Min. Pass Bandwidth @0.5dB	nm	4
Max. Stop Bandwidth @20dB	nm	6
Max. PDL	dB	0.1
Min. Optical Return Loss	dB	50
Max. Optical Power(CW)	mW	300
Max. Tensile Load	N	5
Fiber Type	--	Corning HI 1060 Fiber
Operating Temperature	℃	-5 to +70
Storage Temperature	℃	-40 to +85

*Above specifications are for device without connector.
*For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower.
*The material must be RoHS compliant.

Package Dimensions



Ordering Information

BPF-①①①①-②②-③③-④④-⑤⑤-⑥⑥-⑦-⑧⑧-⑨⑨

①①①①: Center Wavelength
1030 - 1030nm
SSSS - Specify

②②: Pass Band Width
04 - 4nm
SS - Specify

③③: Stop Band Width
06 - 6nm
SS - Specify

④④: Handling Power
0.3 - 300mW
S - Specify

⑤⑤: Connector Type on Port1,2
1B - FC/UPC
2B - FC/APC
3B - SC/UPC
4B - SC/APC
N - None

⑥⑥: Fiber Jacket on Port 1,2
B - 250um Bare Fiber
F - 900um Loose Tube(White)
S - Specify

⑦: Fiber Length
0.8 - 0.8 m
S - Specify

⑧⑧: Fiber Type
01 - HI-1060 Fiber

⑨⑨: Package Type
01 - $\varnothing 5.5\times 35$

High Power Polarization Maintaining Band Pass Filter 1030nm 10W

Spec Review No.: SR2401054A

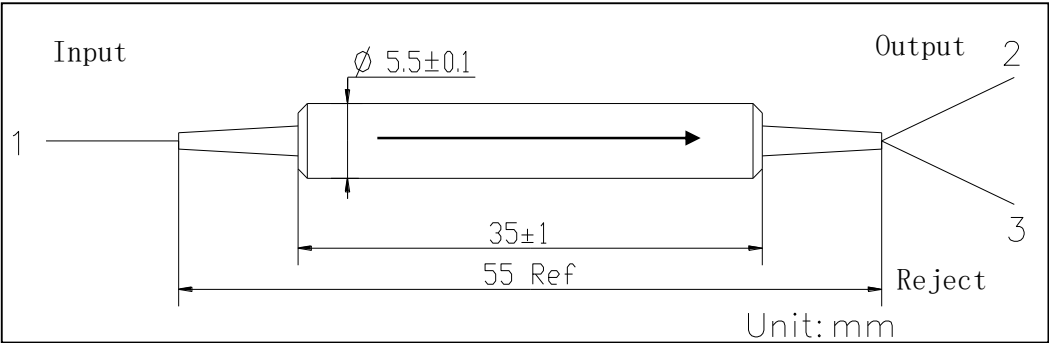
Date: Jan. 25, 2024

Specifications

Parameters	Unit	Values
Nominal Center Wavelength (λ_c)	nm	1030
Max. Insertion Loss over λ_c (1→2)	dB	0.9
Pass Band Width @0.5dB	nm	4
Max. Stop Band Width @25dB	nm	8
Min. ER (only for Fast Axis Blocked Type)	dB	20
Min. ER (only for Both Axis Working Type)	dB	18
Min. Optical Return Loss (only for Port 1、Port 2)	dB	50
Max. Optical Power (CW,Proper SOP for F type)	W	5
Max. Tensile Load	N	5
Fiber Type	--	PLMA-GDF-14/125-UF NA0.07 for Port 1、 2 MM 105/125 Fiber for Port 3
Operating Temperature	℃	-5 to +70
Storage Temperature	℃	-40 to +85

- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 0.5dB higher, ER will be 2dB lower, RL will be 5dB lower, optical power is only 1W.
- *The PM fiber and the connector key are aligned to the slow axis.
- *Port 3 is for guiding the rejected light out, please be careful when handling.
- *The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMBPF-①①①①-②②-③③-④④-⑤-⑥⑥⑥-⑦⑦⑦-⑧-⑨⑨-⑩⑩

①①①①: Center Wavelength
1030 - 1030nm

②②: Pass Band Width
04 - 4 nm
SS - Specify

③③: Stop Band Width
08 - 8 nm
SS - Specify

④④: Handling Power
05 - 5W

⑤: Axis Alignment
F - Fast Axis Blocked
B - Both Axis Working

⑥⑥⑥: Connector Type
1B - FC/UPC
2B - FC/APC (Step)
3D - SC/UPC
4D - SC/APC (Step)
N - None
SSS - Specify

⑦⑦⑦: Fiber Jacket
B - Bare Fiber
C - 900um Loose Tube(Red)
D - 900um Loose Tube(Blue)
E - 900um Loose Tube(Black)
SSS - Specify

⑧: Fiber Length
0.8 - 0.8 m
S - Specify

⑨⑨:Fiber Type
18 - PLMA-GDF-14/125-UF NA0.07 for Port 1、 2
MM 105/125 Fiber for Port 3

⑩⑩ Package Type
01 - Ø5.5x35

High Power Band Pass Filter 1064nm 10W

Spec Review No.: SR2307043A

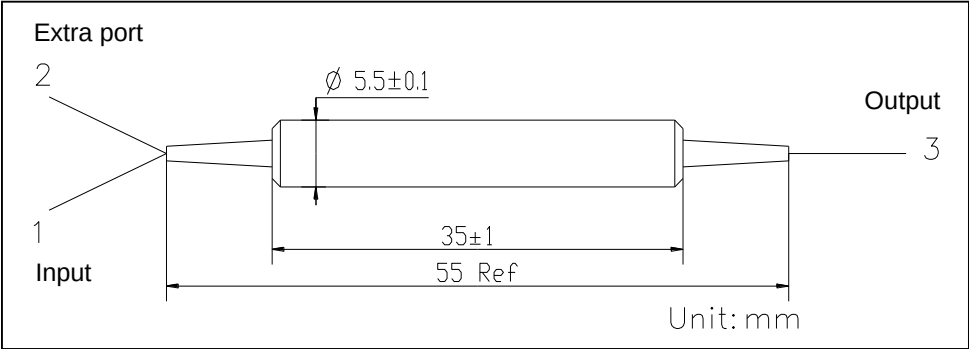
Date: Jul. 13, 2023

Specifications

Parameters	Unit	Values
Nominal Center Wavelength	nm	1064
Min. Pass Bandwidth @0.5dB	nm	2
Max. Stop Bandwidth @25dB	nm	6
Max. Insertion Loss (Port 1 to Port 3, @CWL±1nm)	dB	1.2
Nominal Insertion Loss (Port 1 to Port 2)	dB	0.8 (As Small As Possible)
Max. PDL (Port 1 to Port 3, @CWL±1nm)	dB	0.1
Min. Optical Return Loss (only for Port 1 and Port 3)	dB	50
Max. Optical Power	--	100mW Average Power, 5KW Peak Power
Max. Tensile Load	N	5
Fiber Type	--	Corning HI 1060 Fiber
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower and handling power is only 1W.
- *Port 2 is for rejected light dumping or monitoring, please be careful when handling.
- *The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPBPF-①①①①-②②-③③-④④-⑤⑤⑤-⑥⑥⑥-⑦-⑧⑧-⑨⑨

- | | | |
|--|--|--|
| ①①①①: Center Wavelength
1064 - 1064nm
SSSS - Specify | ⑤⑤⑤: Connector Type on port 1, 2 & 3
1B - FC/UPC
2B - FC/APC (Step)
3D - SC/UPC
4D - SC/APC (Step)
N - None
SSS - Specify | ⑦: Fiber Length
0.8 - 0.8 m
S - Specify |
| ②②: Pass Band Width
02 - 2nm
SS - Specify | ⑥⑥⑥: Fiber Jacket for port 1, 2 & 3
B - 250um Bare Fiber
F - 900um Loose Tube(White)
G - 900um Loose Tube(Yellow)
E - 900um Loose Tube(Black)
SSS - Specify | ⑧⑧: Fiber Type
01 - HI 1060 Fiber
SS - Specify |
| ③③: Stop Band Width
06 - 6nm
SS - Specify | | ⑨⑨: Package Type
01 - Ø5.5x35 |
| ④④: Handling Power
0.1 - 100mW /5KW
SS - Specify | | |

Band Pass Filter 1310nm 1550nm 300mW

Spec Review No.: SR0803010B

Date: Apr.19, 2023

Specifications

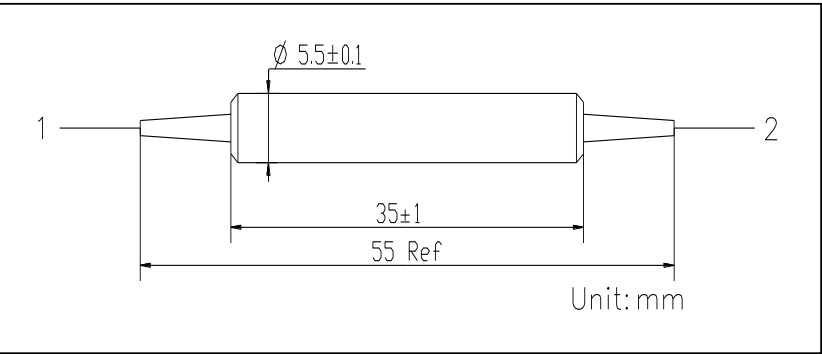
Parameters	Unit	Values
Nominal Center Wavelength	nm	1550
Max. Insertion Loss over 1550+/-1nm	dB	0.8
Min. Pass Band Width @0.5dB	nm	2
Max. Stop Band Width @25dB	nm	8
Max. PDL	dB	0.1
Min. Optical Return Loss	dB	50
Max. Optical Power (CW)	mW	500
Max. Tensile Load	N	5
Fiber Type	-	Corning SMF-28e Fiber
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower .

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

BPF-①①①①-②②-③③-④④-⑤⑤-⑥⑥-⑦-⑧⑧-⑨⑨

①①①①: Center Wavelength
1550 - 1550nm

②②: Pass Band Width
02 - 2nm
SS - Specify

③③: Stop Band Width
08 - 8nm
SS - Specify

④④: Handling Power
0.5 - 500mW
S - Specify

⑤⑤: Connector Type on Port1,2
1B - FC/UPC
2B - FC/APC
3B - SC/UPC
4B - SC/APC
N - None

⑥⑥: Fiber Jacket on Port 1,2
B - 250um Bare Fiber
F - 900um Loose Tube(White)
S - Specify

⑦: Fiber Length
0.8 - 0.8 m
S - Specify

⑧⑧: Fiber Type
02 - SMF-28e Fiber

⑨⑨: Package Type
01 - $\varnothing 5.5 \times 35$

High Power Polarization Maintaining Band Pass Filter 1550nm 300mW

Spec Review No.: SR2305028A

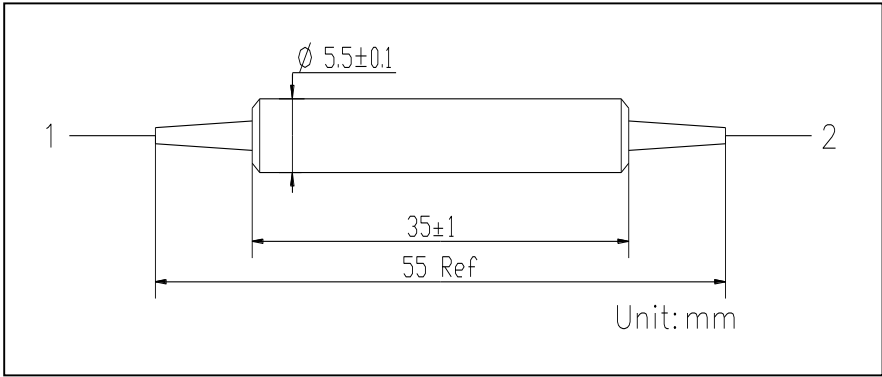
Date: May 09, 2023

Specifications

Parameters	Unit	Values
Nominal Center Wavelength	nm	1550
Max. Insertion Loss over 1550+/-1nm	dB	0.8
Min. Pass Band Width @0.5dB	nm	2.0
Max. Stop Band width@25dB	nm	8.0
Min. Extinction Ratio (only for F-Type)@23℃	dB	22
Min. Extinction Ratio (only for B-Type)@23℃	dB	20
Min. Optical Return Loss	dB	50
Max. Optical Power	--	50mW Average Power, 1ns@50KHz, Peak Power 1kW
Max. Tensile Load	N	5
Fiber Type	--	PM 1550 panda fiber
Operating Temperature	℃	-5 to +70
Storage Temperature	℃	-40 to +85

- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, ER will be 2dB lower and optical power is only 1000mW(CW).
- *The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMBPF-①①①①-②②-③③-④-⑤-⑥⑥-⑦⑦-⑧-⑨⑨-⑩⑩

- ①①①①: Center Wavelength
1550 - 1550nm
SSSS - Specify

②②: Pass Band Width
02 - 2nm
SS - Specify

③③: Stop Band Width
08 - 8nm
SS - Specify

④: Handling Power
0.05 - 50mW
S - Specify
- ⑤: Axis Alignment
F - Fast Axis Blocked
B - Both Axis Working

⑥⑥: Connector Type on Port 1, 2
1B - FC/UPC
2B - FC/APC
3B - SC/UPC
4B - SC/APC
S - Specify
N - None
- ⑦⑦: Fiber Jacket on Port 1, 2
B - Bare Fiber
C - 900um Loose Tube(Red)
D - 900um Loose Tube(Blue)
E - 900um Loose Tube(Black)
S - Specify

⑧: Fiber Length
0.8 - 0.8 m
S - Specify

⑨⑨: Fiber Type
01B - PM1550 Fiber

⑩⑩ Package Type
01 - Ø5.5x35

High Power Band Pass Filter 1550nm 10W

Spec Review No.: SR2306113A

Date:Jun .28, 2023

Specifications

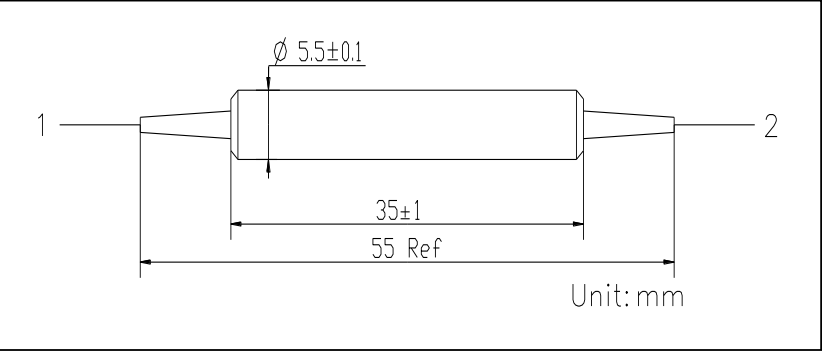
Parameters	Unit	Values
Nominal Center Wavelength	nm	1550
Max. Insertion Loss over 1550+/-1nm	dB	0.9
Min. Pass Band Width @0.5dB	nm	2
Max. Stop Band Width @25dB	nm	8
Max. PDL	dB	0.1
Min. Optical Return Loss	dB	50
Max. Optical Power (CW)	W	1
Max. Tensile Load	N	5
Fiber Type	--	Corning SMF-28e Fiber
Operating Temperature	℃	-5 to +70
Storage Temperature	℃	-40 to +85

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower .

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPBPF-①①①①-②②-③③-④④-⑤⑤-⑥⑥-⑦-⑧⑧-⑨⑨

①①①①: Center Wavelength

1550 - 1550nm

SSSS - Specify

②②: Pass Band Width

02 - 2nm

SS - Specify

③③: Stop Band Width

08 - 8nm

SS - Specify

④④: Handling Power

01 - 1W

SS - Specify

⑤⑤: Connector Type on Port1,2

1B - FC/UPC

2B - FC/APC (Step)

3D - SC/UPC

4D - SC/APC (Step)

N - None

SS - Specify

⑥⑥: Fiber Jacket on Port 1,2

B - 250um Bare Fiber

F - 900um Loose Tube(White)

G - 900um Loose Tube(Yellow)

E - 900um Loose Tube(Black)

S - Specify

⑦: Fiber Length

0.8 - 0.8 m

S - Specify

⑧⑧:Fiber Type

02 - SMF-28e Fiber

⑨⑨: Package Type

01 - Ø5.5x35

High Power Polarization Maintaining Circulator Hybrid 7xxnm 300mW

Spec Review No.: SR1905009B

Date:May. 22, 2023

Specifications

Parameters	Unit	Values
Center Wavelength (λc)	nm	780
Operating Wavelength Range	nm	±5
Typ. Peak Isolation (2 to1, 3 to 2)	dB	30
Min. Isolation at 23℃ (2 to 1, 3 to2)	dB	25
Typ. Insertion Loss at 23℃ (1 to 2, 2 to3)	dB	1.3
Max. Insertion Loss at 23℃ (1 to 2, 2 to 3)	dB	1.6
Min. Extinction Ratio	dB	20
Min. Cross Talk	dB	50
Min. Return Loss	dB	50
Max. Average Power	W	0.3 or Specify
Max. Tensile Load	N	5
Fiber Type	-	Nufern PM 780-HP Fiber
Operating Temperature	℃	-5 to +50
Storage Temperature	℃	-20 to+75

*Above parameter only for inner core.

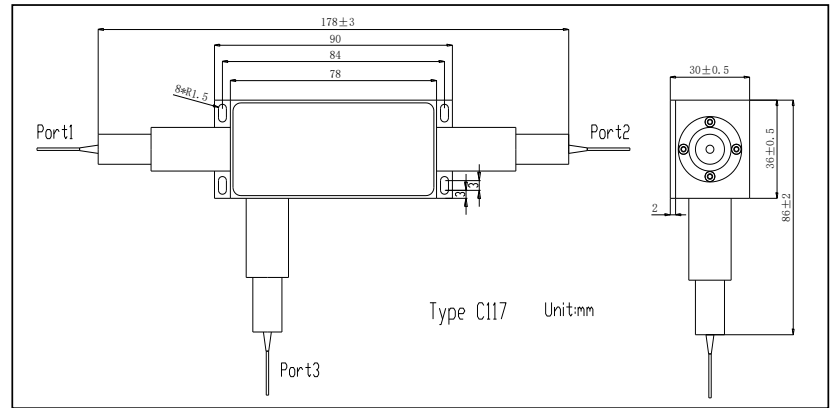
* Above specifications are for device without connector.

* For devices with connectors, IL will be 1dB higher, RL will be 5dB lower,ER will be 2dB lower & handling power will be only 1W(CW)

* The PM fiber and connector key are aligned to the slow axis.

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMCIR-①①-②②②-③-④④④-⑤⑤⑤-⑥⑥⑥-⑦⑦-⑧-⑨⑨⑨

①①: Wavelength

78 - 780nm

SS - Specify

②②②: Package Type

C117 - Type C117

③: Port Configuration

1 - 1x2

④④④: Connector Type

1A - FC/UPC

2A - FC/APC (Step)

N - None

S - Specify

⑤⑤⑤: Fiber Jacket

B - Bare Fiber

C - 900um loose tube(Red)

S - Specify

⑥⑥⑥: Fiber Length

1 - 1 m

S - Specify

⑦⑦: Handling Power

0.3 - 0.3W

S - Specify

⑧: Axis Alignment

F - Fast Axis Blocked

⑨⑨⑨: Fiber Type

37 - Nufern PM780-HP Fiber

S - Specify

High Power Polarization Maintaining Circulator 8xxnm 300mW

Spec Review No.: SR2107003B

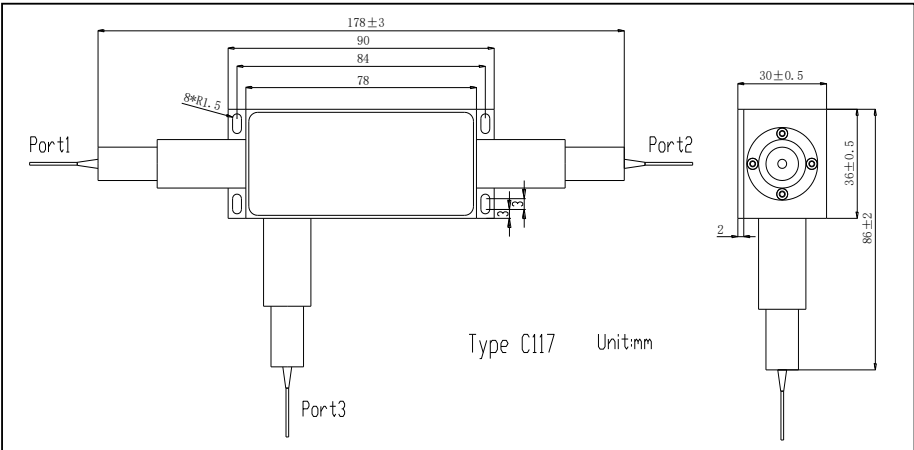
Date:Sep. 19, 2023

Specifications

Parameters	Unit	Values
Center Wavelength (λc)	nm	920
Operating Wavelength Range	nm	±10
Typ. Peak Isolation (2 to1, 3 to 2)	dB	25-30
Min. Isolation at 23℃ (2 to 1, 3 to2)	dB	20
Typ. Insertion Loss at 23℃ (1 to 2, 2 to3)	dB	1.6
Max. Insertion Loss at 23℃ (1 to 2, 2 to 3)	dB	2.0
Min. Extinction Ratio	dB	18
Min. Cross Talk	dB	50
Min. Return Loss	dB	50
Max. Average Power @ Proper SOP	W	1 or Specify
Max. Tensile Load	N	5
Fiber Type	-	Nufern PM 780-HP Fiber
Operating Temperature	℃	-5 to +50
Storage Temperature	℃	-20 to+75

- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 1.2dB higher, RL will be 5dB lower and ER will be 2dB lower & hangdling power will be only 1W(CW)
- *The PM fiber and the key are aligned to the slow axis & fast axis is blocked.
- *The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMCIR-①①-②-③-④④④-⑤⑤⑤⑤-⑥-⑦⑦-⑧-⑨⑨⑨

- | | | |
|---|--|---|
| ①①: Wavelength
92 - 920nm
S - Specify | ④④④: Connector Type on Port 1/2/3
1A - FC/UPC
2A - FC/APC(Step)
N - None
S - Specify | ⑦⑦: Handling Power
01 -1W
S - Specify |
| ②: Package Type
C117 - Type C117 | ⑤⑤⑤: Fiber Jacket on Port 1/2/3
B - Bare Fiber
C - 900um Loose Tube(Red)
S - Specify | ⑧: Axis Alignment
F - Fast Axis Blocked |
| ③: Port Configuration
1 - 1x2
S - Specify | ⑥: Fiber Length
1 - 1m
S - Specify | ⑨⑨⑨: Fiber Type on Port 1/2/3
20 - PM 850 panda Fiber
37 - PM 780 panda Fiber
74 - Nufern PM 780-HP Fiber
S - Specify |

Polarization Insensitive Optical Circulator 8xxnm 300mW

Spec No.: CAT-05-076B

Date:

Specifications

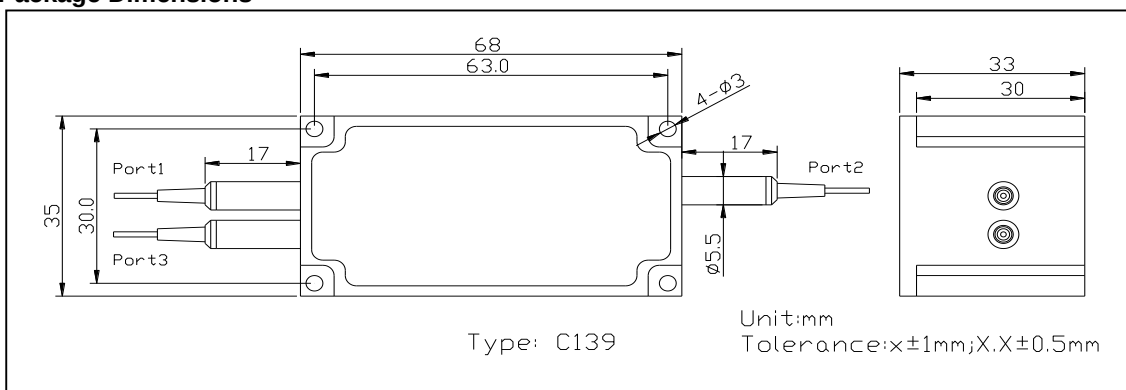
Parameter	Unit	Values
Center Wavelength	nm	850
Operating Wavelength Range	nm	±10
Max. Insertion loss(1→2,2→3), 23℃	dB	1.8
Min. Isolation, (3→2, 2→1), 23℃	dB	23
Min. Return loss	dB	45
Min. Cross talk	dB	45
Max.Polarization Dependent Loss	dB	0.25
Max. Optical Power (CW)	W	1
Max. Tensile Load	N	5
Operating Temperature	℃	10 to +50
Storage Temperature	℃	0 to +60

*For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower,handling power will be only 1W(CW).

*For pulse applications, pls discuss with Optizone Technology.

*The material must be RoSH compliant.

Package Dimensions



Ordering Information

FCIR-①①-②-③-④④④-⑤⑤⑤-⑥-⑦⑦-⑧⑧⑧

①①: Wavelength

85 - 850nm

S - Specify

④④④: Connector Type on Port 1/2/3

1A - FC/UPC

2A - FC/APC(Step)

N - None

⑥: Fiber Length

1 - 1m

S - Specify

②:Package Type

C139 - Type C139

S - Specify

⑤⑤⑤: Fiber Jacket on Port 1/2/3

B - Bare Fiber

F - 900um Loose Tube(White)

S - Specify

⑦⑦:Handling Power

01 - 1W

S - Specify

③:Port Configuration

1 - 1x2

⑧⑧⑧:Fiber Type on Port 1/2/3

38 - HI 780 Fiber

112- Nufern HI780-HP fiber

S - Specify

Polarization Maintaining Optical Circulator 10xxnm 300mW

Spec No.: CAT-09-013D

Date:

Specifications

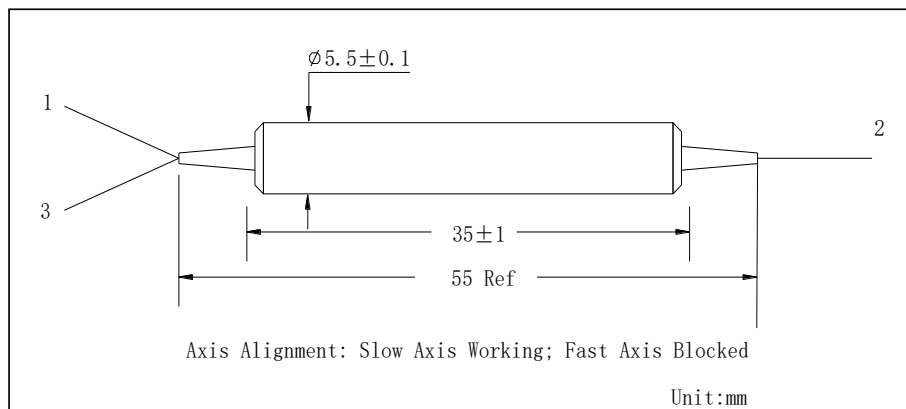
Parameter	Unit	Values
Center Wavelength	nm	1064
Operating Wavelength Range	nm	±5
Typ. Insertion Loss (1→2, 2→3)	dB	1.8
Max. Insertion Loss (1→2, 2→3)	dB	2.1
Typ. Isolation (3→2, 2→1)	dB	30
Min. Isolation at 23°C (3→2, 2→1)	dB	25
Min. Return Loss	dB	50
Min. Extinction Ratio	dB	20
Min. Cross Talk	dB	50
Max. Optical Power (CW)	mW	300
Max. Tensile Load	N	5
Fiber Type	-	PM Panda Fiber
Operating Temperature	°C	-5 to + 50
Storage Temperature	°C	-40 to +85

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower and ER will be 2dB lower.

*The PM fiber and the key are aligned to the slow axis; cast axis is blocked.

Package Dimensions



Ordering Information

PM CIR-①①-②-③-④④④-⑤⑤⑤-⑥-⑦-⑧

①①: Wavelength

06 - 1064nm

SS- Specify

④④④: Connector Type on Port 1, 2 & 3

1A- FC/UPC

2A - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify

⑥: Fiber Type

4A - PM980 Fiber

SS - Specify

②: Type

B - Type B

⑦: Fiber Length

1 - 1.0m

S - Specify

③: Port

1 - 1x2

⑤⑤⑤: Fiber Jacket on Port 1, 2 & 3

B - Bare Fiber

C - 900um Losse tube (Red)

D - 900um Losse tube (Blue)

S - Specify

⑧: Package Dimensions

01 - $\varnothing 5.5 \times 35$

Polarization Maintaining Optical Circulator 10xxnm 300mW

Spec No.: CAT-09-012D

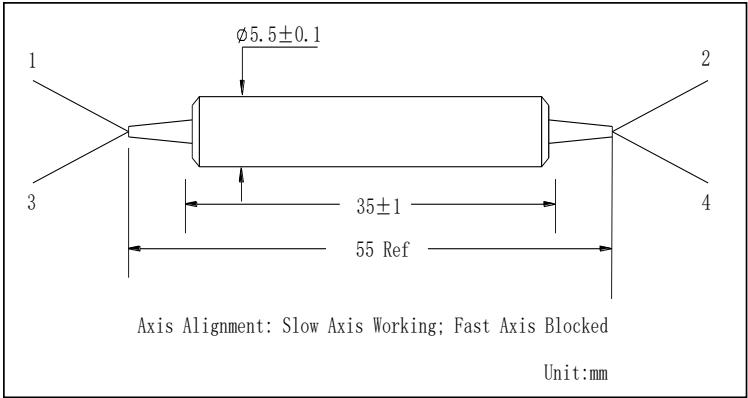
Date:

Specifications

Parameter	Unit	Values
Center Wavelength	nm	1064
Operating Wavelength Range	nm	±5
Typ. Insertion Loss (1→2, 2→3, 3→4, 4→1), 23°C	dB	2.1
Max. Insertion Loss (1→2, 2→3, 3→4, 4→1), -5~50°C	dB	2.8
Min. Isolation (1→4, 4→3, 3→2, 2→1), 23°C	dB	28
Min. Isolation (1→4, 4→3, 3→2, 2→1), -5~50°C	dB	20
Min. Return Loss	dB	50
Min. Extinction Ratio	dB	20
Min. Cross Talk	dB	50
Max. Optical Power (CW, total)	mW	300
Max. Tensile Load	N	5
Fiber Type	-	PM Panda Fiber
Operating Temperature	°C	-5 to + 50
Storage Temperature	°C	-40 to +85

- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower, and ER will be 2dB lower.
- *The PM fiber and the key are aligned to the slow axis, and fast axis blocked.

Package Dimensions



Ordering Information

PM CIR-①①-②-③-④④④④-⑤⑤⑤⑤-⑥-⑦-⑧

- ①①: Wavelength
06 - 1064nm
SS- Specify

②: Type
B - Type B

③: Port
2 - 2x2
- ④④④④: Connector Type on Port 1, 2, 3 & 4
1A- FC/UPC
2A - FC/APC
3D - SC/UPC
4D - SC/APC
N - None
S - Specify

⑤⑤⑤⑤: Fiber Jacket on Port 1, 2, 3 & 4
B - Bare Fiber
C - 900um Losse tube (Red)
D - 900um Losse tube (Blue)
S - Specify
- ⑥: Fiber Type
4A - PM980 Fiber
SS - Specify

⑦: Fiber Length
1 - 1.0m
S - Specify

⑧: Package Dimensions
01 - $\phi 5.5 \times 35$

Polarization Insensitive Optic Circulator 3 Ports 10xxnm 300mW

Spec No.:CAT-02-003F

Date:

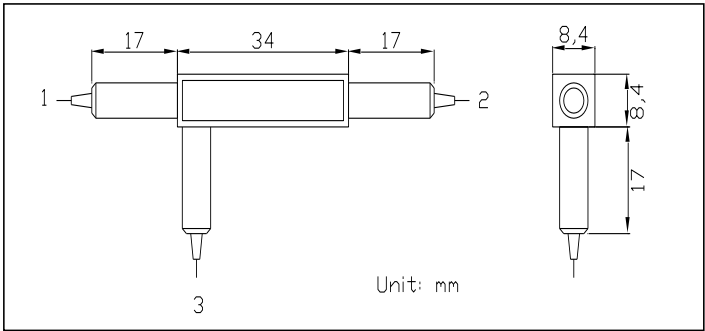
Specifications

Parameter	Unit	Values
Center Wavelength	nm	1064
Operating Wavelength Range	nm	± 10
Max. Insertion Loss(1→2, 2→3)@1064nm, 23℃	dB	2.1, Typ.1.8
Max. Insertion Loss(1→2, 2→3)@1064nm±10, 23℃	dB	2.8
Typ. Isolation(3→2, 2→1), 23℃	dB	25
Min. Isolation(3→2, 2→1), 23℃	dB	20
Min. Directivity	dB	45
Min. Return Loss	dB	50
Max. PDL, 23℃	dB	0.2
Max. Optical Power (CW, total)	mW	300
Max. Tensile Load	N	5
Fiber Type	-	HI 1060 Fiber
Operating Temperature	℃	-5 to +50
Storage Temperature	℃	-40 to +85

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower.

Package Dimensions



Ordering Information

FCIR-①①-②-③③③-④④④-⑤

①①: Wavelength

06 - 1064nm

SS - Specify

②: Port Type

1 - 1x2

③③③: Connector Type on Port 1, 2 & 3

1A- FC/UPC

2A - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify

④④④: Fiber Jacket on Port 1, 2 & 3

B - Bare Fiber

E - 900um Losse tube (Black)

F - 900um Losse tube (White)

R - 3mm Cable (Blue)

S - Specify

⑤: Fiber Length

1 - 1.0m

S - Specify

High Power Polarization Maintaining Circulator 10xxnm 300mW ~50W

Spec Review No.: SR2309018A

Date: Sep. 11, 2023

Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	1064
Operating Wavelength Range	nm	± 5
Max. Insertion Loss at 23°C (1 to 2)	dB	0.8
Max. Insertion Loss at 23°C (2 to 3)	dB	1.0
Min. Isolation at λ_c , 23°C (2 to 1)	dB	28
Min. Isolation at λ_c , 23°C (3 to 2)	dB	20
Min. Extinction Ratio at 23°C (Port 2)	dB	20
Min. Cross Talk (1 to 3, 3 to 1)	dB	50
Min. Return Loss (All Port)	dB	50
Max. Average Power @ Proper SOP	W	50 or Specify
Max. Peak Power	kW	10 @ 10ns
Max. Tensile Load	N	5
Operating Temperature	°C	10 to +50
Storage Temperature	°C	0 to +75

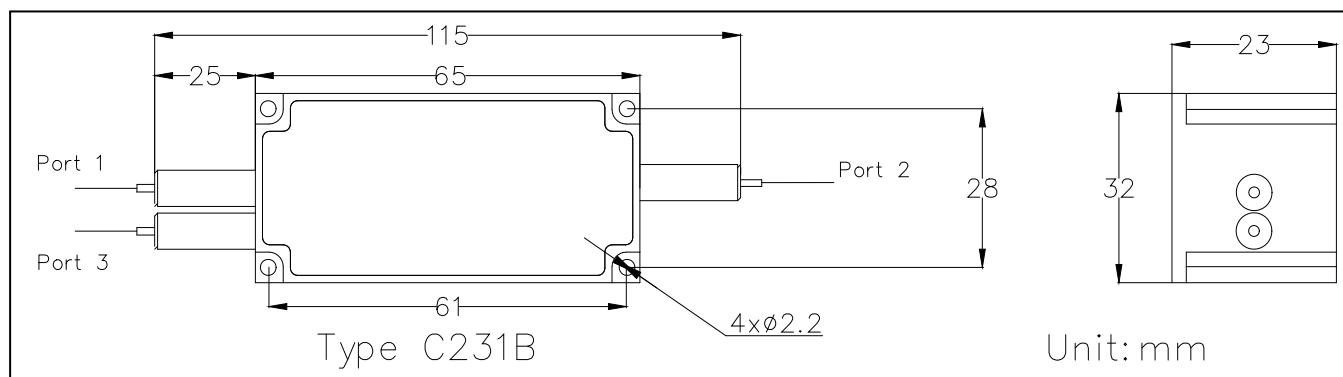
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower, ER will be 2dB lower & handling power will be only 1W(CW).

*The PM fiber and connector key are aligned to the slow axis.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMCIR-①①-②-③-④④④-⑤⑤⑤-⑥-⑦⑦-⑧-⑨⑨⑨

①①: Wavelength

06 - 1064nm

S - Specify

④④④: Connector Type on Port 1/2/3

N - None

S - Specify

⑦⑦: Handling Power

50 - 50W

S - Specify

②: Package Type

C231B - Type C231B

⑤⑤⑤: Fiber Jacket on Port 1/2/3

B - Bare Fiber

⑧: Axis Alignment

F - Fast Axis Blocked

③: Port Configuration

1 - 1x2

S - Specify

⑥: Fiber Length

1 - 1.0m

S - Specify

⑨⑨⑨: Fiber Type on Port 1/2/3

45 - PLMA-GDF 10/125-M NA0.075 Fiber

S - Specify

High Power Circulator 10xxnm 300mW~50W

Spec Review No.: SR2502003A

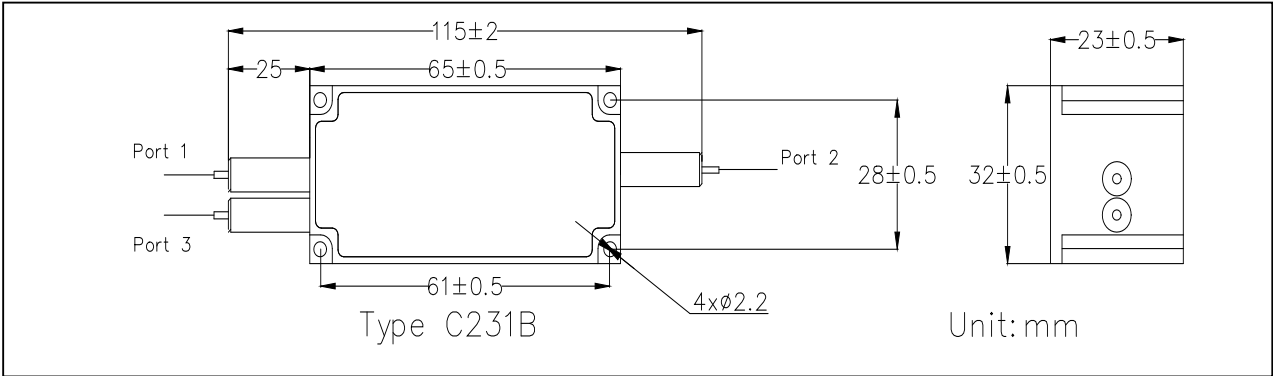
Date: Feb. 6, 2025

Specifications

Parameter	Unit	Values
Center Wavelength (λc)	nm	1064
Operating Wavelength Range	nm	±10
Typ. Insertion Loss at 23℃, λc (1 to 2,2 to 3)	dB	0.6
Max.Insertion Loss at 23℃, λc (1 to 2)	dB	0.8
Max.Insertion Loss at 23℃, λc (2 to 3)	dB	1.0
Min. Isolation at 23℃, λc (2 to 1)	dB	28
Min. Isolation at 23℃, λc (3 to 2)	dB	10
Min. Return loss (All Port)	dB	50
Min. Cross Talk (1 to 3, 3 to 1)	dB	50
Max. Polarization Dependent Loss	dB	0.2
Max. Optical Average Power	W	60 or Specify
Max. Peak Power	kW	10@ 10ns
Max. Tensile Load	N	5
Operating Temperature	℃	+10 to +50
Storage Temperature	℃	0 to +60

*Above specifications are for device without connector.
*For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower & handling Power will be only 1W(CW).
*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPCIR-①①-②-③-④-⑤-⑥-⑦⑦-⑧

- ①①: Wavelength Range
06 - 1064nm
S - Specify

②:Package Type
C231B - Type C231B

③:Port Configuration
1 - 1x2
- ④: Connector Type
N - None
S - Specify

⑤: Fiber Jacket
B - Bare Fiber
S - Specify

⑥: Fiber Length
1 - 1m
S - Specify
- ⑦⑦:Handling Power
60 - 60W
S - Specify

⑧:Fiber Type on Port 1/2/3
104 - MMF 62.5/125 OM1 Fiber
108 - Nufern LMA-GDF-25/400-HP-M NA0.065 Fiber
113 - LMA-GDF-25/250-M NA0.065 Fiber
122 - Nufern LMA-GDF-14/250-HP-M,NA0.07 Fiber
S - Specify

High Power Polarization Maintaining Circulator 10xxnm 300mW

Spec Review No.: SR2409011B

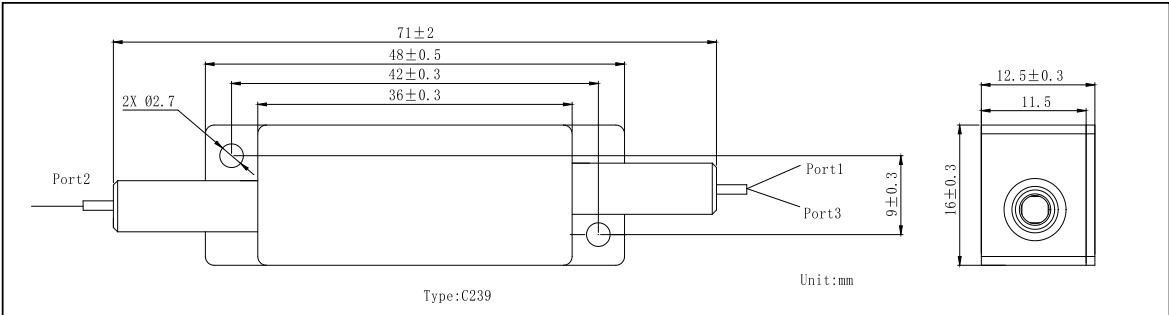
Date: Sep.18.2024

Specifications

Parameters	Unit	Values
Center Wavelength (λc)	nm	980,1030,1064 or Specify
Operating Wavelength Range	nm	±10
Typ. Insertion Loss at 23℃ (Port1 to Port2, Port2 to Port3)	dB	0.6
Max. Insertion Loss at 23℃ (Port1 to Port2, Port2 to Port3)	dB	1.0
Typ. Peak Isolation at 23℃ (Port2 to Port1, Port3 to Port2)	dB	30
Min. Isolation at λc,23℃ (Port2 to Port1, Port3 to Port2)	dB	25
Min. Extinction Ratio at 23℃ (Port1 to Port2, Port2 to Port3)	dB	20
Min. Cross Talk	dB	50
Min. Return Loss (Port1/Port2/Port3)	dB	50
Max. Average Power	W	5 or Specify
Max. Peak Power	kW	10
Max. Tensile Load	N	5
Operating Temperature	℃	10 to +50
Storage Temperature	℃	-20 to+75

- * Above specifications are for device without connector.
- * For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower,ER will be 2dB lower & handling power will be only 1W(CW)
- * The PM fiber and connector key are aligned to the slow axis.
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMCIR-①①-②-③-④-⑤-⑥-⑦-⑧-⑨

- | | | |
|--|---|--|
| ①①: Center Wavelength
98 - 980nm
03 - 1030nm
06 - 1064nm
S - Specify | ④: Connector Type
1A - FC/UPC
2A - FC/APC
N - None
S - Specify | ⑦: Average Power
05 - 5W
S - Specify |
| ②:Package Type
C239 - Type C239 | ⑤: Fiber Jacket
B - Baer Fiber
C - 900um Loose Tube(Red)
S - Specify | ⑧:Axis Alignment
F - Fast Axis Blocked |
| ③: Port Configuration
1 - 1x2
S - Specify | ⑥:Fiber Length
0.6 - 0.6m
S - Specify | ⑨: Fiber Type
1 - PM980 Fiber
45 - PLMA-GDF 10/125-M NA0.075 Fiber
65 - Nufern PM1060L 10/125 GSF NA0.085 Fiber
90 - PM-98-025-B (长飞) Fiber
S - Specify |

Polarization Maintaining Optical Circulator 15xxnm 500mW

Spec No.: CAT-09-015E

Date:

Specifications

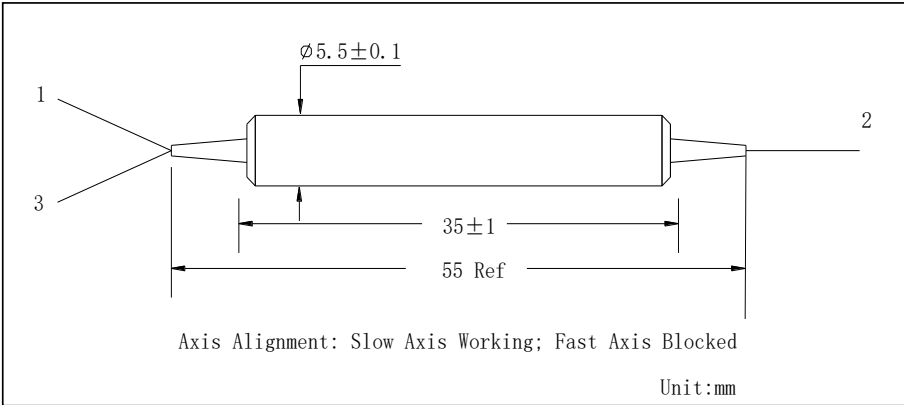
Parameter	Unit	Values	
Type		Type A	Type B
Center Wavelength	nm	1310 or 1550	
Operating Wavelength Range	nm	±30	±20
Typ. Insertion Loss (1→2, 2→3)	dB	0.7	0.6
Max. Insertion Loss (1→2, 2→3)	dB	0.9	0.8
Min. Isolation, 23°C (3→2, 2→1)	dB	40	20
Typ. Isolation (3→2, 2→1)	dB	46	30
Min. Return Loss	dB	50	
Min. Extinction Ratio	dB	22	20
Min. Cross Talk	dB	50	
Max. Optical Power (CW)	mW	500	
Max. Tensile Load	N	5	
Fiber Type	-	PM Panda Fiber	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower.

*The PM fiber and the connector key are aligned to the slow axis.

Package Dimensions



Ordering Information

PM CIR-①①-②-③-④④④-⑤⑤⑤-⑥-⑦-⑧

①①: Wavelength

31 - 1310nm
55 - 1550nm
SS- Specify

②: Type

A - Type A
B - Type B

③: Port

1 - 1x2

④④④: Connector Type on Port 1, 2 & 3

1B- FC/UPC
2B - FC/APC
3D - SC/UPC
4D - SC/APC

N - None

S - Specify

⑤⑤⑤: Fiber Jacket on Port 1, 2 & 3

B - Bare Fiber
C - 900um Losse tube (Red)
D - 900um Losse tube (Blue)
E - 900um Losse tube (Black)
S - Specify

⑥: Fiber Type

2B - PM1550 Fiber
3A - PM1310 Fiber
SS - Specify

⑦: Fiber Length

1 - 1.0m
S - Specify

⑧: Package Dimensions

01 - $\phi 5.5 \times 35$

Polarization Maintaining Optical Circulator 15xxnm 500mW

Spec No.: CAT-09-014D

Date:

Specifications

Parameter	Unit	Values	
Type		Type A	Type B
Center Wavelength	nm	1310 or 1550	
Operating Wavelength Range	nm	± 30	± 20
Typ. Insertion Loss	dB	0.8	0.7
Max. Insertion Loss	dB	1.1	1.0
Min. Isolation at 23℃	dB	40	20
Typ. Isolation	dB	50	30
Min. Return Loss	dB	50	
Min. Extinction Ratio	dB	20	20
Min. Cross Talk (Port 1 to Port 3, Port 2 to Port 4)	dB	50	
Max. Optical Power (CW)	mW	500	
Max. Tensile Load	N	5	
Fiber Type	-	PM Panda Fiber	
Operating Temperature	℃	-5 to +70	
Storage Temperature	℃	-40 to +85	

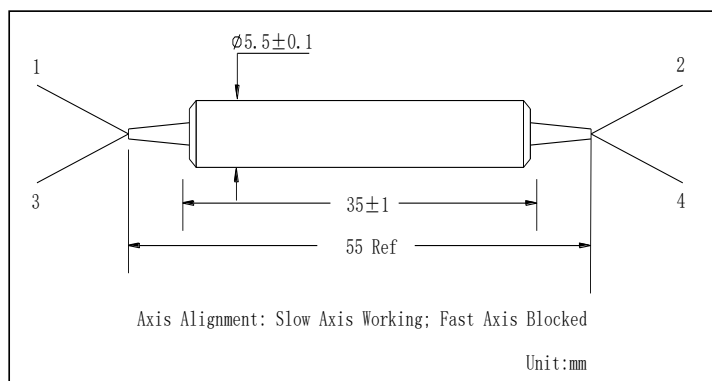
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, and ER will be 2dB lower.

*The transmission optical path of A type is different from B type: A type: 1→2, 2→3, 3→4; B type: 1→2, 2→3, 3→4, 4→1.

*The PM fiber and the key are aligned to the slow axis.

Package Dimensions



Ordering Information

PM CIR-①①-②-③-④④④④-⑤⑤⑤⑤-⑥-⑦-⑧

①①: Wavelength

31 - 1310nm

55 - 1550nm

SS- Specify

②: Type

A - Type A

B - Type B

③: Port

2 - 2x2

④④④④: Connector Type on Port 1, 2, 3 & 4

1B- FC/UPC

2B - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify

⑤⑤⑤⑤: Fiber Jacket on Port 1, 2, 3 & 4

B - Bare Fiber

C - 900um Losse tube (Red)

D - 900um Losse tube (Blue)

E - 900um Losse tube (Black)

S - Specify

⑥: Fiber Type

2B - PM1550 Fiber

3B - PM1310 Fiber

SS - Specify

⑦: Fiber Length

1 - 1.0m

S - Specify

⑧: Package Dimensions

01 - $\phi 5.5 \times 35$

Polarization Insensitive Fiber Optic Circulator 15xxnm 500mW

Spec No.: CAT-02-002E

Date:

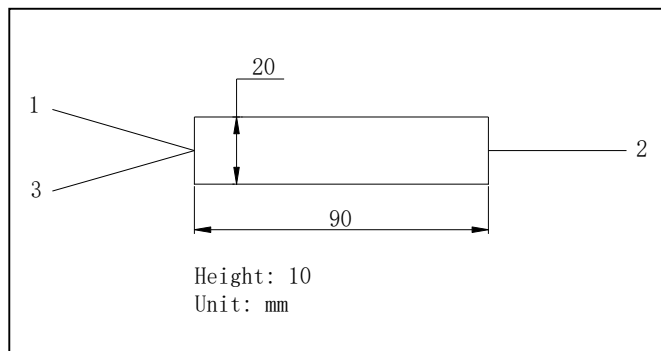
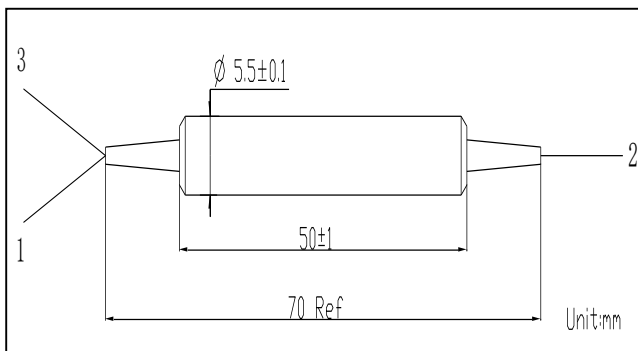
Specifications

Parameter	Unit	Values			
Center Wavelength	nm	1310	1550	C&L	1610
Operating Wavelength Range	nm	±30	±30	1525~1610	±30
Typ. Insertion loss(1→2, 2→3)	dB	0.6			
Max. Insertion loss(1→2, 2→3)	dB	0.8			
Typ. Isolation(3→2, 2→1)	dB	50			
Min. Isolation(3→2, 2→1)	dB	40			
Max. PDL	dB	0.15			
Max. PMD	ps	0.1			
Min. Return loss	dB	50			
Min. Cross talk	dB	50			
Max. Optical Power (CW)	mW	500			
Max. Tensile Load	N	5			
Fiber Type	-	SMF-28e Fiber			
Operating Temperature	℃	0 to +70			
Storage Temperature	℃	-40 to +85			
Package Dimensions	mm	dia 5.5 x 50 (Bare fiber or 900um Loose Tube)			
		90x20x10 (2.0mm or 3.0mm Cable)			

*Above specifications are for device without connector, and testing at 23℃.

*For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lower.

Package Dimensions



Ordering Information

FCIR-①①-②-③③③-④④④-⑤-⑥⑥

①①: Wavelength

31 - 1310nm

55 - 1550nm

CL - C&L Band

61 - 1610nm

SS - Specify

③③③: Connector Type on Port 1, 2 & 3

1B - FC/UPC

2B - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify

⑤: Fiber Length

1 - 1.0m

S - Specify

⑥⑥: Package Dimensions

03 - Ø5.5x50

82 - 90x20x10

②: Port Type

1 - 1x2

④④④: Fiber Jacket on Port 1, 2 & 3

B - Bare Fiber

E - 900um Losse tube (Black)

F - 900um Losse tube (White)

R - 3mm Cable (Blue)

S - Specify

High Power Polarization Maintaining Circulator 15xxnm 10W

Spec Review No.: SR2302514A

Date: May. 11, 2023

Specifications

Parameter	Unit	Values	
Type	-	Type A	Type B
Center Wavelength	nm	1310 or 1550	
Operating Wavelength Range	nm	±30	±20
Min. Isolation, 23℃ (3→2,2→1)	dB	35	20
Typ. Isolation (3→2,2→1)	dB	40	30
Typ. Insertion Loss (1→2,2→3)	dB	0.8	0.7
Max. Insertion Loss (1→2,2→3)	dB	1	0.9
Min. Return Loss	dB	50	
Min. Extinction Ratio	dB	20	
Min. Cross Talk (1→3)	dB	50	
Max. Optical Power (CW, SOP)	W	1, 3, 5, 10 or Specify	
Max. Tensile Load	N	5	
Fiber Type	-	PM Panda Fiber	
Operating Temperature	℃	-5 to +70	
Storage Temperature	℃	-40 to +85	

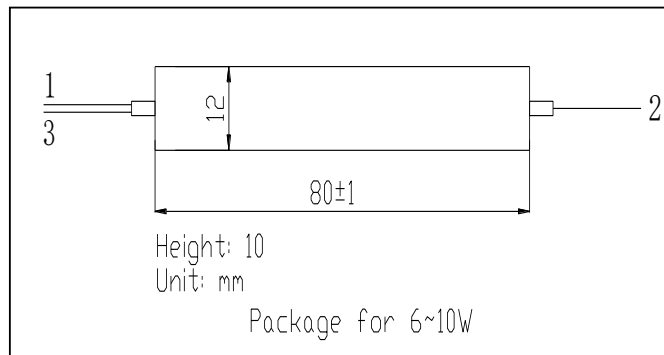
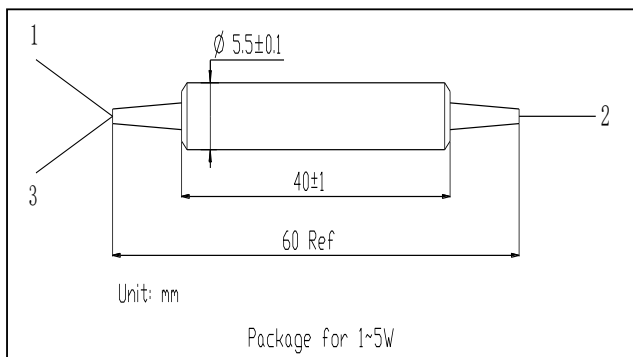
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, ER will be 2dB lower, and Optical power is only 1W.

*The PM fiber and the connector key are aligned to the slow axis and fast axis is blocked.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMCIR-①①-②-③-④④-⑤⑤⑤-⑥⑥⑥-⑦⑦-⑧-⑨⑨

①①: Wavelength

31 - 1310nm

55 - 1550nm

SS - Specify

④④: Handling Power

01 - 1W

05 - 5W

SS - Specify

②: Type

A - Type A

B - Type B

⑤⑤⑤: Connector Type on Port 1, 2&3

1A- FC/UPC

2A - FC/APC

3D - SC/UPC

4D - SC/APC

③: Port

1 - 1x2

N - None

S - Specify

⑥⑥⑥: Fiber Jacket on Port 1, 2&3

B - Bare Fiber

C - 900um Losse tube (Red)

D - 900um Losse tube (Blue)

E - 900um Losse tube (Black)

S - Specify

⑧: Fiber Length

1 - 1.0m

S - Specify

⑨⑨: Package Dimensions

02 - Ø5.5x40

08 - 80x12x10

⑦⑦: Fiber Type

2A - PM1550 Fiber

3A - PM1310 Fiber

SS - Specify

High Power Polarization Insensitive Circulator 15xxnm 10W

Spec Review No.: SR2302501A

Date: May. 09, 2023

Specifications

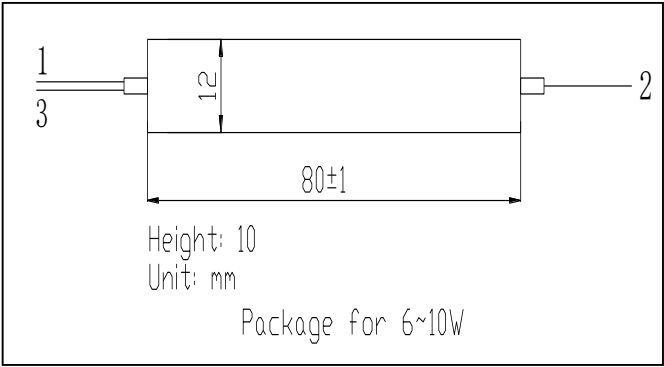
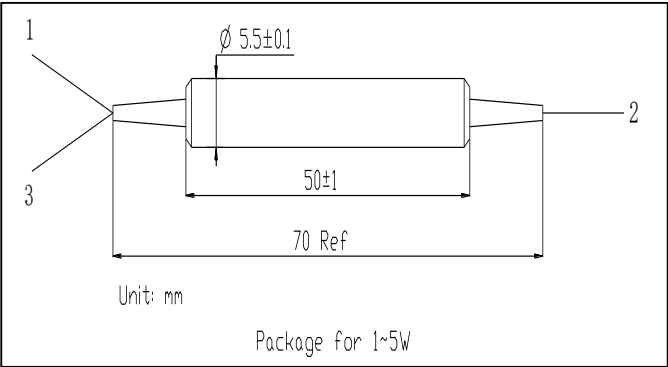
Parameter	Unit	Values
Center Wavelength	nm	1310, 1550, or Specify
Operating Wavelength Range	nm	±20
Typ. Insertion Loss (1→2, 2→3)	dB	0.9
Max. Insertion Loss (1→2, 2→3)	dB	1.2
Min. Isolation (3→2, 2→1)	dB	40
Max. Polarization Dependent Loss	dB	0.2
Max. Polarization Mode Dispersion	ps	0.1
Min. Return loss	dB	50
Min. Cross talk (1→3)	dB	50
Max. Optical Power (CW,Total)	W	1, 3, 5 ,10 or Specify
Max. Tensile Load	N	5
Fiber Type	-	SMF-28e Fiber
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

*Above specifications are for device without connector, and testing at 23℃.

*For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lowerand optical power is only 1W.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPCIR-①①-②-③③-④④④-⑤⑤⑤-⑥-⑦⑦

- ①①: Wavelength

31 - 1310nm

55 - 1550nm

SS - Specify
- ④④④: Connector Type on Port 1, 2 & 3

1A- FC/UPC

2A - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify
- ⑥: Fiber Length

1 - 1.0m

S - Specify
- ⑦⑦: Package Dimensions

03 - Ø5.5x50

08 - 80x12x10
- ②: Port

1 - 1x2
- ③③: Power

01 - 1W

05 - 5W

10 - 10W

S - Specify
- ⑤⑤⑤: Fiber Jacket on Port 1, 2 & 3

B - Bare Fiber

E - 900um Losse tube (Black)

F - 900um Losse tube (White)

R - 3mm Cable (Blue)

S - Specify

Polarization Maintaining Optical Circulator 19xxnm 300mW

Spec No.: CAT-10-020C

Date:

Specifications

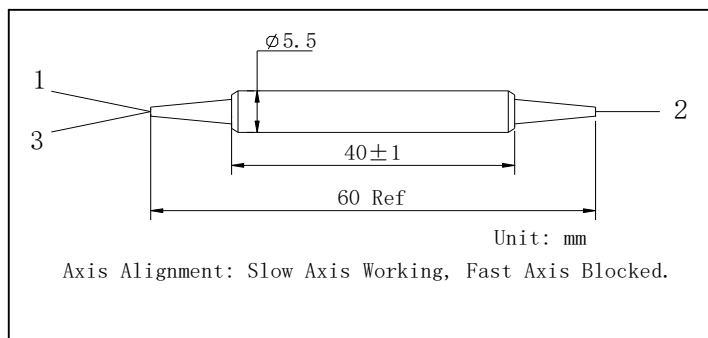
Parameter	Unit	Values			
Type		Type A	Type B	Type A	Type B
Center Wavelength	nm	2000			
Operating Wavelength Range	nm	±30			
Min. Isolation, 23℃ (3→2, 2→1)	dB	35	18	35	18
Typ. Isolation (3→2, 2→1)	dB	45	25	45	25
Typ. Insertion Loss (1→2, 2→3)	dB	1.1	0.8	1.4	1.0
Max. Insertion Loss (1→2, 2→3)	dB	1.5	1.2	1.8	1.5
Min. Return Loss	dB	50			
Min. Extinction Ratio	dB	20		18	
Min. Cross Talk	dB	50			
Max. Optical Power (CW)	mW	500			
Max. Tensile Load	N	5			
Fiber Type		PM 1550 Panda Fiber		PM 1950 Panda Fiber	
Operating Temperature	℃	-5 to +70			
Storage Temperature	℃	-40 to +85			

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower.

*The PM fiber and the connector key are aligned to the slow axis.

Package Dimensions



Ordering Information

PM CIR-①①-②-③-④④④-⑤⑤⑤-⑥-⑦-⑧

①①: Wavelength

20 - 2000nm

SS - Specify

②: Type

A - Type A

B - Type B

③: Port

1 - 1x2

④④④: Connector Type on Port 1, 2 & 3

1A- FC/UPC

2A - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify

⑤⑤⑤: Fiber Jacket on Port 1, 2 & 3

B - Bare Fiber

C - 900um Losse tube (Red)

D - 900um Losse tube (Blue)

S - Specify

⑥: Fiber Type

1C - PM1950 Fiber

2A - PM1550 Fiber

SS - Specify

⑦: Fiber Length

1 - 1.0m

S - Specify

⑧: Package Dimensions

02 - Ø5.5x40

High Power Polarization Insensitive Optical Circulator 19xx~20xxnm 300mW~10W

Spec Review No.: SR1812009B

Date: May. 09, 2023

Specifications

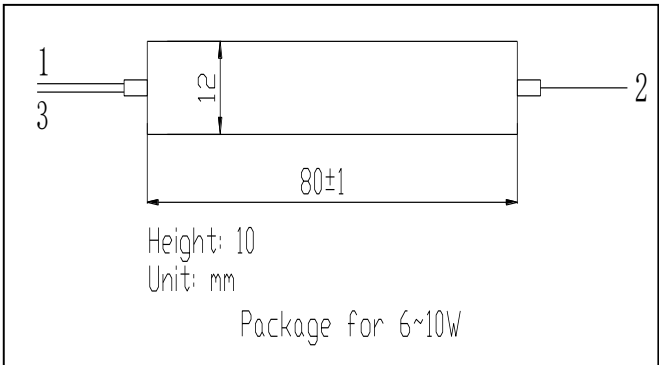
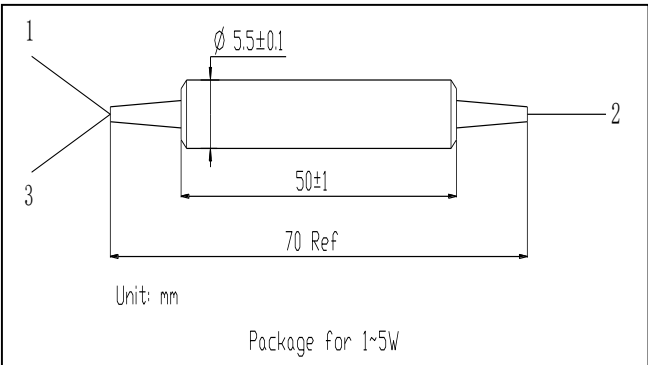
Parameter	Unit	Values
Center Wavelength	nm	2000
Operating Wavelength Range	nm	±20
Max. Insertion Loss, 23℃ (1→2, 2→3), λc	dB	1.5
Min. Isolation, 23℃ (3→2, 2→1), λc	dB	20
Min. Return Loss	dB	50
Min. Cross Talk	dB	50
Max. Polarization Dependent Loss	dB	0.2
Max. Polarization Mode Dispersion	ps	0.15
Max. Optical Power (CW, Total)	W	1, 3, 5 or Specify
Max. Tensile Load	N	5
Fiber Type	-	SMF-28e Fiber
Operating Temperature	℃	-5 to +70
Storage Temperature	℃	-40 to +85

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, and optical power is only 1000mW(CW).

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPCIR-①①-②③③-④④④-⑤⑤⑤-⑥-⑦⑦

①①: Wavelength

20 - 2000nm

SS - Specify

②: Port Type

1 - 1x2

③③: Optical Power

01 - 1W

05 - 5W

SS - Specify

④④④: Connector Type on Port 1, 2 & 3

1A- FC/UPC

2A - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify

⑤⑤⑤: Fiber Jacket on Port 1, 2 & 3

B - Bare Fiber

E - 900um Loose tube (Black)

F - 900um Loose tube (White)

R - 3mm Cable (Blue)

S - Specify

⑤⑤⑤: Fiber Jacket on Port 1, 2 & 3

B - 250um Bare Fiber

L - 900um Loose Tube

S - Specify

⑥: Fiber Length

1 - 1.0m

S - Specify

⑦⑦: Package Dimensions

03 - Ø5.5x50

08 - 80x12x10

High Power Polarization Maintaining Optical Circulator 19xx~20xxnm 10W

Spec No.:CAT-05-067C

Date:

Specifications

Parameter	Unit	Values	
Type		Type A	
Center Wavelength	nm	2000	
Operating Wavelength Range	nm	±30	
Min. Isolation,23℃	dB	32	
Typ. Insertion Loss	dB	1.5	
Max. Insertion Loss	dB	1.8	
Min. Extinction Ratio	dB	20	18
Min. Return Loss	dB	50	
Min. Cross Talk	dB	40	
Max. Optical Power (CW)	W	1, 3, 5 or Specify	
Max. Tensile Load	N	5	
Fiber Type		PM 1550 Panda Fiber	PM 1950 Panda Fiber
Operating Temperature	℃	-5 to + 70	
Storage Temperature	℃	-40 to +85	

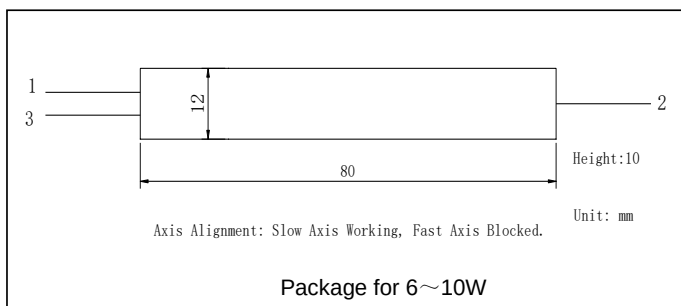
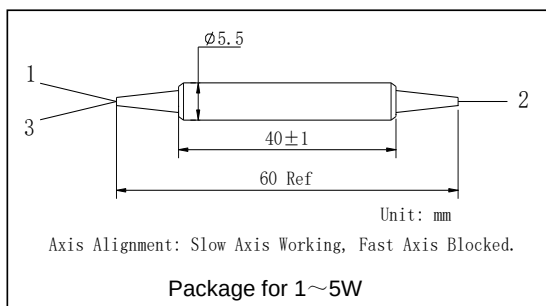
* Above specifications are for devices without the connectors.

* For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, ER will be 2dB lower, and optical power is only 1000mW.

*The PM fiber and the connector key are aligned to the slow axis.

*For handling high power, proper alignment of polarization is necessary.

Package Dimensions



Ordering Information

HPMCIR-①①-②-③-④④-⑤⑤⑤-⑥⑥⑥-⑦-⑧-⑨

①①: Wavelength

20 - 2000nm

SS - Specify

②: Type

A - Type A

③: Port

1 - 1X2

④④: Handling Power

01 - 1W

SS - Specify

⑤⑤⑤: Connector Type on Port 1, 2 & 3

1A- FC/UPC

2A - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify

⑥⑥⑥: Fiber Jacket on Port 1, 2 & 3

B - Bare Fiber

C - 900um Losse tube (Red)

D - 900um Losse tube (Blue)

S - Specify

⑦: Fiber Type

1C - PM1950 Fiber

2A - PM1550 Fiber

SS - Specify

⑧: Fiber Length

1 - 1.0m

S - Specify

⑨: Package Dimensions

02 - Ø5.5x40

08 - 80x12x10

Spec No.: CAT-10-034B

Date:

Specifications

Parameter	Unit	Values	
Type	-	Type B	
Center Wavelength	nm	2000	
Operating Wavelength Range	nm	±30	
Typ. Insertion Loss	dB	1.0	1.2
Max. Insertion Loss	dB	1.4	1.7
Min. Isolation, 23℃	dB	18	
Typ. Isolation	dB	25	
Min. Return Loss	dB	50	
Min. Extinction Ratio	dB	20	18
Min. Cross Talk	dB	50	
Max. Optical Power (CW)	mW	500	
Max. Tensile Load	N	5	
Fiber Type	-	PM 1550 Panda Fiber	PM 1950 Panda Fiber
Operating Temperature	℃	-5 to +70	
Storage Temperature	℃	-40 to +85	

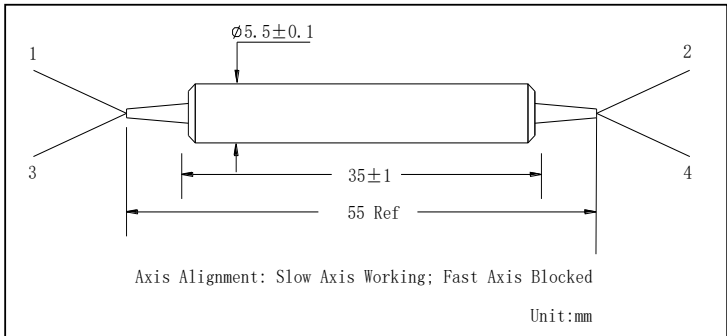
*Above specifications are for device without connector.

*The transmission optical path of B type: 1→2, 2→3, 3→4, 4→1.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower.

*The PM fiber and the connector key are aligned to the slow axis.

Package Dimensions



Ordering Information

PM CIR-①①-②-③-④④④④-⑤⑤⑤⑤-⑥-⑦-⑧

- ①①: Wavelength

20 - 2000nm

SS - Specify
- ②: Type

B - Type B
- ③: Port

2 - 2x2
- ④④④④: Connector Type on Port 1, 2, 3 & 4

1A- FC/UPC

2A - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify
- ⑤⑤⑤⑤: Fiber Jacket on Port 1, 2, 3 & 4

B - Bare Fiber

C - 900um Losse tube (Red)

D - 900um Losse tube (Blue)

S - Specify
- ⑥: Fiber Type

1C - PM1950 Fiber

2A - PM1550 Fiber

SS - Specify
- ⑦: Fiber Length

1 - 1.0m

S - Specify
- ⑧: Package Dimensions

02 - $\varnothing 5.5 \times 40$

Collimator 9xx~15xxnm 300mW

Spec No.: CAT-10-002C

Date:

Specifications

Parameters	Unit	Values
Center Wavelength	nm	1310 or 1550
Operating Wavelength Range	nm	±30
Working Distance	mm	5 or Specify
Typ. Insertion Loss at 5mm WD	dB	0.2
Max. Insertion Loss at 5mm WD	dB	0.25
Min. Return Loss	dB	60
Max. PDL	dB	0.02
Max. Optical Power (CW)	mW	500
Max. Tensile Load	N	5
Fiber Type		SMF-28e Fiber
Operating Temperature	℃	-5 to +70
Storage Temperature	℃	-40 to +85

*Above specifications are for device without connector

*For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lower.

*The material must be RoHS compliant.

Package Dimensions

		Glass Tube	Metal Holder
	OD (for 1.8mm Lens Dia)	$\phi 2.78 \pm 0.01$ ☐	$\phi 3.2 \pm 0.02$ ☐
	L (for 1.8mm Lens Dia)	9.0 ± 0.1 ☐	10 ± 0.1 ☐ 14 ± 0.1 ☐
	OD (for 1.0mm Lens Dia)	$\phi 1.4 \pm 0.02$ ☐	$\phi 1.8 \pm 0.02$ ☐
	L (for 1.0mm Lens Dia)	9.0 ± 0.1 ☐	10 ± 0.1 ☐

Ordering Information

C-①-②-③-④-⑤-⑥⑥-⑦⑦-⑧-⑨-⑩-⑪⑪-⑫

①: Wavelength

1310 - 1310nm

1550 - 1550nm

3155 - 1310/1550nm

S - Specify

④: Lens Type

G - Grin Lens

C - C Lens

⑤: Working Distance

5 - 5mm

15- 15mm

S - Specify

⑥⑥: Connector Type

1A - FC/UPC

2A - FC/APC (Step)

3D - SC/UPC

4D - SC/APC (Step)

N - None

S - Specify

⑦⑦: Fiber Jacket

B - Bare Fiber

E - 900um black Loose Tube

S - Specify

⑧: Fiber Type

5 - SMF-28e Fiber

O3 - YOFC PH1011-C fiber (G657A2)

⑨: Fiber Orientation

O - O Type (for Single Fiber)

V - Vertical (for Dual Fiber)

⑩: Fiber Length

1-1m

S - Specify

⑪⑪: Package Type

88 - Ø1.4x9 Glass

51 - Ø2.78x9 Glass

89 - Ø1.8x10

40 - Ø3.2x10

34 - Ø3.2x14

S - Specify

⑫: Nominal Beam Diameter

0.36 - 0.36mm @1550nm&1310nm

0.45 - 0.45mm @1550nm

0.32 - 0.32mm @1310nm

0.42 - 0.42mm @1310nm

S - Specify

Fiber Collimator 9xx~10xxnm 300mW

Spec No.: CAT-10-001C

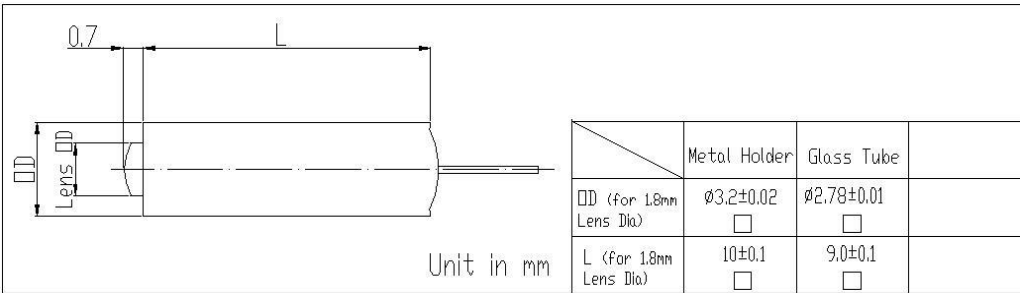
Date:

Specifications

Parameters	Unit	Values		
Center Wavelength	nm	850	980	1064
Operating Wavelength Range	nm	±20	±20	±30
Working Distance	mm	5	5	5
Typ. Insertion Loss at 5mm	dB	0.3	0.25	0.25
Max. Insertion Loss at 5mm	dB	0.35	0.3	0.3
Min. Return Loss	dB	55	55	60
Max. PDL	dB	0.02		
Max. Optical Power (CW)	mW	300		
Max. Tensile Load	N	5		
Fiber Type		HI 780 Fiber	HI 1060 Fiber	HI 1060 Fiber
Operating Temperature	℃	-5 to +70		
Storage Temperature	℃	-40 to +85		

*Above specifications are for device without connector.
*For devices with connectors, IL will be 0.5dB higher and RL will be 5dB lower.
*The material must be RoHS compliant.

Package Dimensions



Ordering Information

C-①-②-③-④-⑤-⑥⑥-⑦⑦-⑧-⑨-⑩-⑪⑪-⑫

- ①: Wavelength
850 - 850nm
980 - 980nm
1064 - 1064nm
S - Specify

②: Pigtail Type
S - Single Fiber Pigtail
D - Dual Fiber Pigtail

③: Lens Diameter
1 - 1.8mm
2 - 1.0mm (for Single Fiber only)
S - Specify
- ④: Lens Type
G - Grin Lens
C - C Lens

⑤: Working Distance
1 - 5mm
S - Specify

⑥⑥: Connector Type
1B - FC/UPC
2B - FC/APC (Step)
3D - SC/UPC
4D - SC/APC (Step)
N - None
S - Specify
- ⑦⑦: Fiber Jacket
B - Bare Fiber
F - 900um White Loose Tube
S - Specify

⑧: Fiber Type
5 - HI 780
6 - HI 1060
S - Specify

⑨: Fiber Orientation
O - O Type (for Single Fiber)
V - Vertical (for Dual Fiber)

⑩: Fiber Length
0.8 - 0.8m
S - Specify
- ⑪⑪: Package Type
88 - ∅1.4x9 Glass
51 - ∅2.78x9 Glass
89 - ∅1.8x10
40 - ∅3.2x10
34 - ∅3.2x14
S - Specify

⑫: Nominal Beam Diameter
0.5 - 0.5mm
S - Specify

High Power Polarization Maintaining Fiber Collimator 9xx~10xxnm 10W

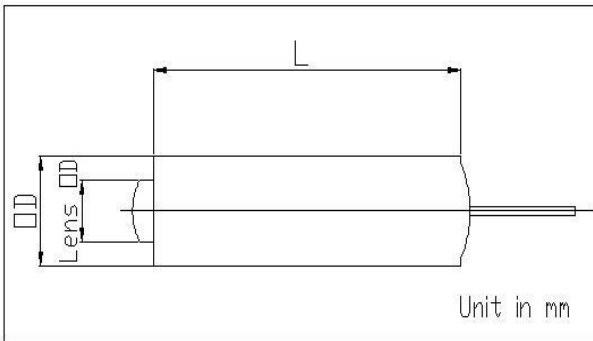
Spec No.: CAT-05-014E

Date:

Specifications

Parameters	Unit	Values
Center Wavelength	nm	1064
Operating Wavelength Range	nm	±20
Nominal Beam Diamter	mm	0.4 、 0.5 、 0.9 or Specify
Working Distance	mm	50 or Specify
Typ. Insertion Loss at 50mm	dB	0.2~0.4
Max. Insertion Loss at 50mm	dB	0.5
Min. Return Loss	dB	50
Typ. Extinction Ratio	dB	25
Min. Extinction Ratio	dB	22
Max. Optical Power (CW)	W	3、 5、 10 or Specify
Max. Peak Power for ns Pulse	kW	10
Max. Tensile Load	N	5
Operating Temperature	℃	-5 to +70
Storage Temperature	℃	-40 to +85

Package Dimensions

		Lens ØD	ØD	L	
	1	Ø1.8 ⁺⁰ _{-0.01}	Ø3.2±0.02	10±0.1	☐
	2	Ø1.8 ⁺⁰ _{-0.01}	Ø3.2±0.02	14±0.1	☐
	3				☐
	4				☐
	5				☐
	6				☐
	7				☐

Ordering Information

HPMC-①①-②②-③③-④-⑤⑤-⑥-⑦-⑧

①①: Wavelength

06 - 1064nm

SS - Specify

②②: Beam Diameter

04 - 0.4mm

05 - 0.5mm

09 - 0.9mm

SS - Specify

③③: Working Distance

50 - 50mm

SS - Specify

④: Fiber Jacket

L - 900um Loose Tube

C - 3mm Loose Cable

A - 3mm Armoured Cable

S - Specify

⑤⑤: Handling Power

03 - 3W

05 - 5W

10 - 10W

SS - Specify

⑥: Fiber Type

1 - PM Panda Fiber

S - Specify

⑦: Fiber Length

1.2 - 1.2m

S - Specify

⑧: Package Type

1 - Dia 3.2*10

2 - Dia 3.2*14

High Power Fiber Collimator 9xx~10xxnm 10W

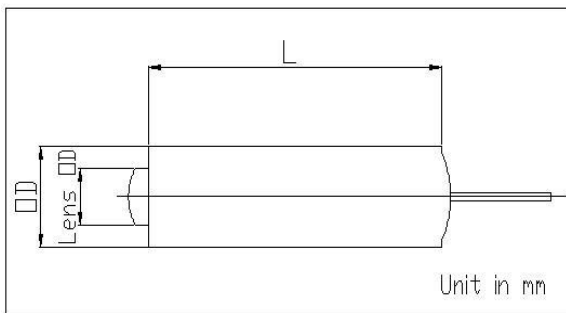
Spec No.: CAT-05-013D

Date:

Specifications

Parameters	Unit	Values
Center Wavelength	nm	1064
Operating Wavelength Range	nm	±20
Nominal Beam Diameter	mm	0.4 、 0.5 、 0.9 or Specify
Working Distance	mm	50 or Specify
Typ. Insertion Loss at 50mm	dB	0.2~0.4
Max. Insertion Loss at 50mm	dB	0.5
Min. Return Loss	dB	50
Max. PDL	dB	0.02
Max. Optical Power (CW)	W	3、 5、 10 or Specify
Max. Peak Power for ns Pulse	kW	10
Max. Tensile Load	N	5
Operating Temperature	℃	-5 to +70
Storage Temperature	℃	-40 to +85

Package Dimensions

		Lens ØD	ØD	L	
	1	Ø1.8 ⁺⁰ _{-0.01}	Ø3.2±0.02	10±0.1	☐
	2	Ø1.8 ⁺⁰ _{-0.01}	Ø3.2±0.02	14±0.1	☐
	3				☐
	4				☐
	5				☐
	6				☐
	7				☐

Ordering Information

HC-①①-②②-③③-④④-⑤⑤-⑥⑥-⑦⑦-⑧⑧

①①: Wavelength

06 - 1064nm

SS - Specify

②②: Beam Diameter

04 - 0.4mm

05 - 0.5mm

09 - 0.9mm

SS - Specify

③③: Working Distance

50 - 50mm

SS - Specify

④④: Fiber Jacket

L - 900um Loose Tube

C - 3mm Loose Cable

A - 3mm Armoured Cable

S - Specify

⑤⑤: Handling Power

03 - 3W

05 - 5W

10 - 10W

SS - Specify

⑥⑥: Fiber Type

1 - HI 1060 Fiber

⑦⑦: Fiber Length

1.5 - 1.5m

S - Specify

⑧⑧: Package Type

1 - Dia 3.2*10

2 - Dia 3.2*14

Polarization Maintaining Fiber Collimator 15xxnm 300mW

Spec No.: CAT-09-011C

Date:

Specifications

Parameters	Unit	Values
Center Wavelength	nm	1310 or 1550
Operating Wavelength Range	nm	±30
Working Distance	mm	5
Typ. Insertion Loss at 5mm WD	dB	0.2
Max. Insertion Loss at 5mm WD	dB	0.25
Min. Return Loss	dB	60
Typ. Extinction Ratio	dB	25
Min. Extinction Ratio	dB	23
Tensile Load	N	5
Max. Optical Power (CW)	mW	500
Fiber Type		PM Panda Fiber
Operating Temperature	℃	-5 to +70
Storage Temperature	℃	-40 to +85

- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower.
- *The PM fiber & connector key are aligned to the slow axis.
- *Tolerance of nominal beam diameter is ±10%.
- *The material must be RoHS compliant.

Package Dimensions

		Metal Holder	Glass Tube
	OD (For 1.8mm Lens Dia)	Φ3.2±0.02	Φ2.78±0.02
	L (For 1.8mm Lens Dia)	10±0.1	9.0±0.1
	OD (For 1.0mm Lens Dia)	Φ1.8±0.02	Φ1.4±0.02
	L (For 1.0mm Lens Dia)	9.0±0.1	7.0±0.1

Ordering Information

PMC-①-②-③-④-⑤-⑥⑥-⑦⑦-⑧-⑨-⑩-⑪-⑫-⑬

- | | | |
|---|---|---|
| ①: Wavelength
1310 - 1310nm
1550 - 1550nm
S - Specify | ⑥⑥: Connector Type
1B - FC/UPC
2B - FC/APC(Step)
3D - SC/UPC
4D - SC/APC(Step)
N - None
S - Specify | ⑩: Fiber Length
0.8 - 0.8m
S - Specify |
| ②: Pigtail Type
S - Single Fiber
D - Dual Fiber | ⑦⑦: Fiber Jacket
B - Bare Fiber
C - 900um Red Loose Tube | ⑪: Package Dimensions
40 - Ø3.2x10 Metal
51 - Ø2.78x9 Glass
89 - Ø1.8x9 Metal
105 - Ø1.4x7 Glass |
| ③: Lens Diameter
1 - 1.8mm
2 - 1.0mm (for Single Fiber only)
S - Specify | ⑧: Fiber Type
2B - PM 1310
3B - PM 1550 | ⑫: ER Level
B - ≥23dB |
| ④: Lens Type
G - Grin Lens
C - C Lens | ⑨: Fiber Orientation
I - B - T - D - P - E - H - L
O - O Type | ⑬: Nominal Beam Diameter
0.36 - 0.36mm at 1550nm
0.45 - 0.45mm at 1550nm only for C Lens
0.33 - 0.33mm at 1310nm
0.42 - 0.42mm at 1310nm only for C Lens
S - Specify |
| ⑤: Working Distance
5 - 5mm
S - Specify | | |

High Power Polarization Maintaining Fiber Collimator 15xxnm 10W

Spec Review No.: SR2108006B

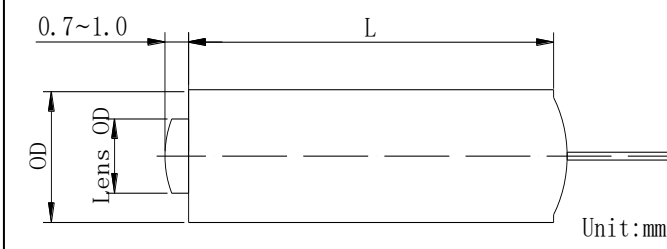
Date: Jul. 21, 2023

Specifications

Parameters	Unit	Values
Center Wavelength	nm	1550
Operating Wavelength Range	nm	± 20
Nominal Beam Diameter	mm	0.45 ± 0.05
Working Distance (WD)	mm	4 or Specify
Max. Insertion Loss	dB	0.25
Typ. Extinction Ratio	dB	25
Min. Extinction Ratio	dB	23
Min. Return Loss	dB	55
Max. Pointing Angle @180mm WD	mrad	$36 [= \text{ATAN}(6.5\text{mm} / 180\text{mm})]$
Fiber Type	-	PM 1550 Panda Fiber or Specify
Max. Optical Power (CW)	W	1.0 or Specify
Max. Tensile Load	N	5
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

*The material must be RoHS compliant.

Package Dimensions

		Glass Tube	Metal Holder
	OD (for 1.8mm Lens Dia)	$\phi 2.78 \pm 0.01$ ☐	$\phi 3.2 \pm 0.02$ ☐
	L (for 1.8mm Lens Dia)	9.0 ± 0.1 ☐	10 ± 0.1 ☐

Ordering Information

HPMC-①-②②-③-④-⑤⑤-⑥-⑦-⑧

①: Wavelength

1550 - 1550nm

②②: Beam Diameter

045 - 0.45mm

③: Working Distance

4 - 4mm

S - Specify

④: Fiber Jacket

B - Bare Fiber

C - 900um Red Loose Tube

SS - Specify

⑤⑤: Handling Power

01 - 1.0W

S - Specify

⑥: Fiber Type

3A - PM 1550

S - Specify

⑦: Fiber Length

1 - 1.0m

S - Specify

⑧: Package Type

40 - $\phi 3.2 \times 10$ Metal

51 - $\phi 2.78 \times 9$ Glass

S - Specify

High Power Fiber Collimator 15xxnm 10W

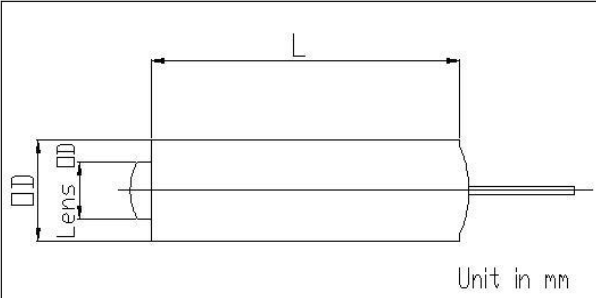
Spec No.: CAT-05-018C

Date:

Specifications

Parameters	Unit	Values
Center Wavelength	nm	1310, 1480 or 1550
Operating Wavelength Range	nm	±20
Nominal Beam Diameter	mm	0.4 、 0.5 or Specify
Working Distance	mm	5 or Specify
Typ. Insertion Loss at 5mm WD	dB	0.2
Max. Insertion Loss at 5mm WD	dB	0.3
Min. Return Loss	dB	50
Max. PDL	dB	0.02
Max. Optical Power (CW)	W	3 、 5、 10 or Specify
Max. Peak Power for ns Pulse	kW	10
Max. Tensile Load	N	5
Operating Temperature	℃	-5 to +70
Storage Temperature	℃	-40 to +85

Package Dimensions

		Lens ØD	ØD	L	
	1	Ø1.8 ⁺⁰ _{-0.01}	Ø3.2±0.02	10±0.1	☐
	2				☐
	3				☐
	4				☐
	5				☐
	6				☐
	7				☐

Ordering Information

HC-①①-②②-③③-④④-⑤⑤-⑥⑥-⑦⑦-⑧⑧

①①: Wavelength

31 - 1310nm

48 - 1480nm

55 - 1550nm

SS - Specify

②②: Beam Diameter

04 - 0.4mm

05 - 0.5mm

SS - Specify

③③: Working Distance

05 - 5mm

SS - Specify

④④: Fiber Jacket

B - 250um Bare Fiber

L - 900um Loose Tube

C - 3mm Loose Cable

A - 3mm Armoured Cable

S - Specify

⑤⑤: Handling Power

03 - 3W

05 - 5W

10 - 10W

20 - 20W

SS - Specify

⑥⑥: Fiber Type

1 - SMF-28e Fiber

⑦⑦: Fiber Length

1.5 - 1.5m

S - Specify

⑧⑧: Package Type

1 - Dia 3.2*10

Polarization Maintaining Fiber Collimator 19xx~20xxnm 300mW

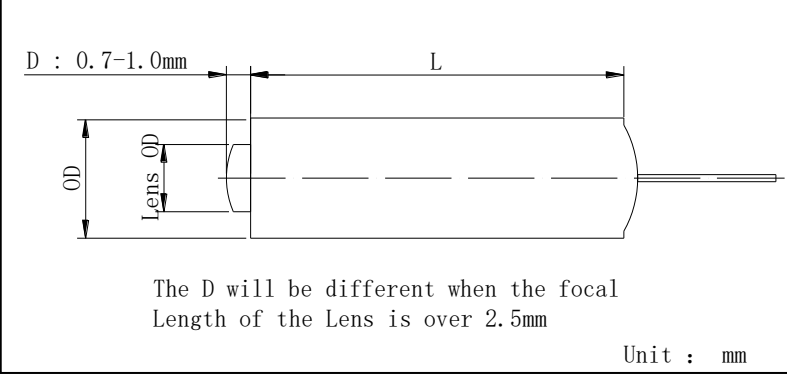
Spec Review No:SR1801011A

Date:Jan.08,2018

Specifications

Parameters	Unit	Values
Center Wavelength	nm	2000
Operating Wavelength Range	nm	±30
Working Distance	mm	5 or Specify
Typ. Transmission	-	98%
Min. Transmission	-	95%
Min. Return Loss	dB	50
Typ. Extinction Ratio	dB	25
Min. Extinction Ratio	dB	23
Max. Optical Power (CW)	mW	500
Max. Tensile Load	N	5
Fiber Type	-	PM 1950 Fiber
Operating Temperature	℃	-5 to +70
Storage Temperature	℃	-40 to +85

Package Dimensions

 The D will be different when the focal Length of the Lens is over 2.5mm Unit : mm		Glass Tube	Metal Holder
	OD (for 1.8mm Lens Dia)	ø2.78±0.01 ☐	ø3.2±0.02 ☐
	L (for 1.8mm Lens Dia)	9.0±0.1 ☐	10±0.1 ☐ 14±0.1 ☐
	OD (for 1.0mm Lens Dia)	ø1.4±0.02 ☐	ø1.8±0.02 ☐
	L (for 1.0mm Lens Dia)	9.0±0.1 ☐	10±0.1 ☐

Ordering Information

PMC-①①-②-③-④-⑤-⑥-⑦-⑧-⑨-⑩-(11)-(12)(12)

①①: Wavelength
20 - 2000nm
SS - Specify

②: Pigtail Type
S - Single Fiber

③: Lens Diameter
1 - 1.8mm
S - Specify

④: Lens Type
C - C lens
G - Grin lens

⑤: Working Distance
1 - 5mm
S - Specify

⑥: Connector Type
1 - FC/UPC
2 - FC/APC
3 - SC/UPC
4 - SC/APC
N - None
S - Specify

⑦: Fiber Jacket
B - 250um Bare Fiber
L - 900um Loose Tube
S - Specify

⑧: Fiber Length
1 - 1.0m
S - Specify

⑨: Package Type
1 - Metal Holder
2 - Glass Tube
3 - Metal Holder 14mm

Fiber Collimator 19xx~20xxnm 300mW

Spec Review No: SR2412072A

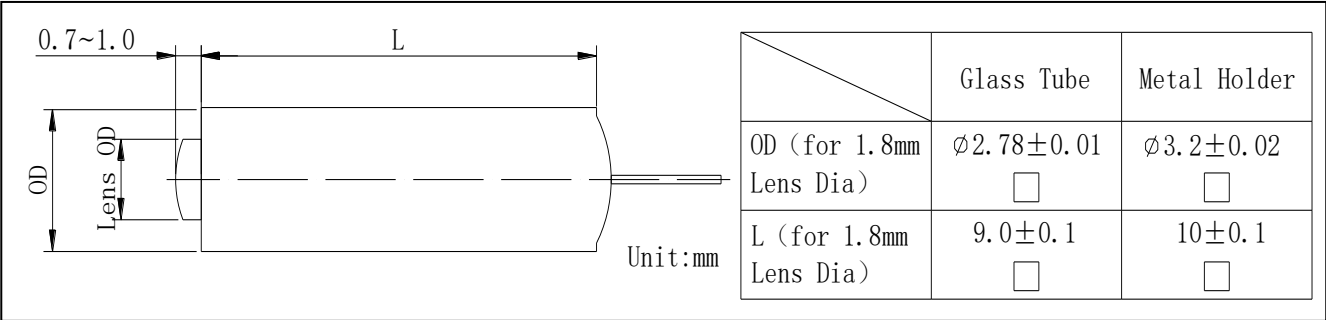
Date: Dec. 17, 2024

Specifications

Parameters	Unit	Values
Center Wavelength	nm	2000
Operating Wavelength Range	nm	±30
Working Distance (WD)	mm	10 or Specify
Nominal Beam Diameter at WD	mm	0.47 ±0.05
Typ. Transmissivity	-	98%
Min Transmissivity	-	95%
Min. Return Loss	dB	55
Max. PDL	dB	0.03
Max. Optical Power (CW)	mW	500
Max. Tensile Load	N	5
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

- *Above specifications are for device without connector
- *For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lower.
- *The material must be RoHS compliant.

Package Dimensions



Ordering Information

C-①-②-③-④-⑤-⑥-⑦-⑧-⑨-⑩-⑪-⑫

- ①: Wavelength

1950 - 1950nm

2000 - 2000nm
- ⑤: Working Distance

10 - 10mm

S - Specify
- ⑦: Fiber Jacket

B - Bare Fiber

F - 900um White Loose Tube

SS - Specify
- ⑩: Fiber Length

1 - 1.0m

S - Specify
- ②: Pigtail Type

S - Single Fiber
- ⑥: Connector Type

1B - FC/UPC

2B - FC/APC (Step)

3D - SC/UPC

4D - SC/APC (Step)

N - None

S - Specify
- ⑧: Fiber Type

5 - SMF-28e

S - Specify
- ⑪: Package Type

40 - Ø3.2×10 Metal

51 - Ø2.78×9 Glass
- ③: Lens Diameter

1 - 1.8mm
- ④: Lens Type

C - C-Lens
- ⑨: Fiber Orientation

O - O Type
- ⑫: Nominal Beam Diameter

0.47 - 0.47mm

High Power Polarization Maintaining Collimator 19xx~20xxnm 10W

Spec Review No: SR1310002B

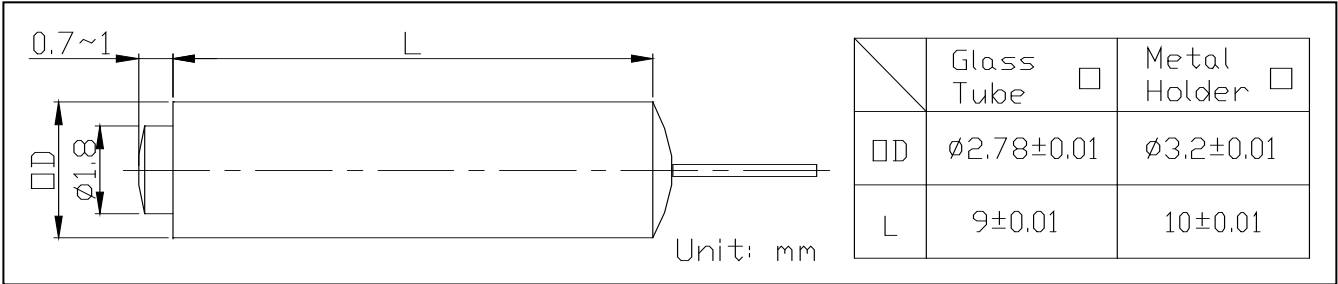
Date: Nov. 8, 2024

Specifications

Parameters	Unit	Values	
Center Wavelength	nm	2000	
Operating Wavelength Range	nm	±50	
Nominal Beam Diameter	mm	0.48±0.05 or Specify	0.6±0.05 or Specify
Working Distance (WD)	mm	5 or Specify	
Typ. Insertion Loss at WD	dB	0.2~0.4	0.6
Max. Insertion Loss at WD	dB	0.5	0.8
Min. Return Loss	dB	50	
Typ. Extinction Ratio, 23℃	dB	25	23
Min. Extinction Ratio, 23℃	dB	23	20
Max. Optical Power (CW)	W	3, 5 or Specify	
Max. Peak Power for ns Pulse	kW	10	
Fiber Type	-	PM 1550	PM 1950
Max. Tensile Load	N	5	
Operating Temperature	℃	-5 to +70	
Storage Temperature	℃	-40 to +85	

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMC-①-②②-③-④-⑤⑤-⑥-⑦-⑧

①: Wavelength

2000 - 2000nm

S - Specify

②②: Beam Diameter

048 - 0.48mm

06 - 0.6mm

S - Specify

③: Working Distance

5 - 5mm

S - Specify

④: Fiber Jacket

B - Bare Fiber

C - 900um Red Loose Tube

SS - Specify

⑤⑤: Handling Power

03 - 3W

05 - 5W

SS - Specify

⑥: Fiber Type

3A - PM 1550

B10 - PM 1950

⑦: Fiber Length

1 - 1.0m

S - Specify

⑧: Package Type

40 - Ø3.2x10 Metal

51 - Ø2.78x9 Glass

S - Specify

High Power Fiber Collimator 19xx~20xxnm 10W

Spec Review No.: SR2208016A

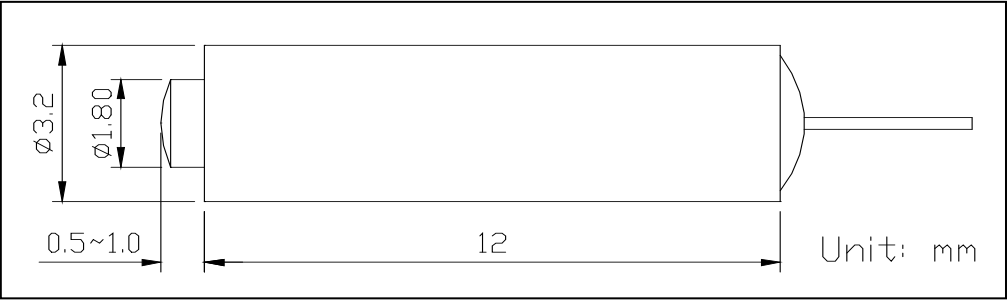
Date: July. 26, 2022

Specifications

Parameters	Unit	Values
Center Wavelength	nm	2000
Operating Wavelength Range	nm	±30
Nominal Beam Diameter (1/e^2)	mm	0.86 ±0.08
Min. Beam Ellipticity (X/Y)	-	90%
Working Distance (WD)	mm	200
Min. Transmissivity	-	95%
Min. Return Loss	dB	55
Max. PDL	dB	0.03
Max. Optical Average Power	W	1, 3, 5 or Specify
Max. Optical Peak Power for ns Pulse	kW	5
Max. Tensile Load	N	5
Fiber Type	-	SMF-28e Fiber
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HC-①①-②-③-④-⑤⑤-⑥-⑦-⑧

①①: Wavelength

20 - 2000nm

SS - Specify

②: Beam Diameter

0.86 - 0.86mm

S - Specify

③: Working Distance

200 - 200mm

S - Specify

④: Fiber Jacket

D - 250um Bare Fiber

L - 900um Loose Tube

S - Specify

⑤⑤: Handling Power

01 - 1W

03 - 3W

05 - 5W

SS - Specify

⑥: Fiber Type

1 - SMF-28e Fiber

⑦: Fiber Length

0.8 - 0.8m

S - Specify

⑧: Package Type

9 - Dia 3.2*12

In-line Polarizer 8xxnm 300mW

Spec No.: CAT-09-035D

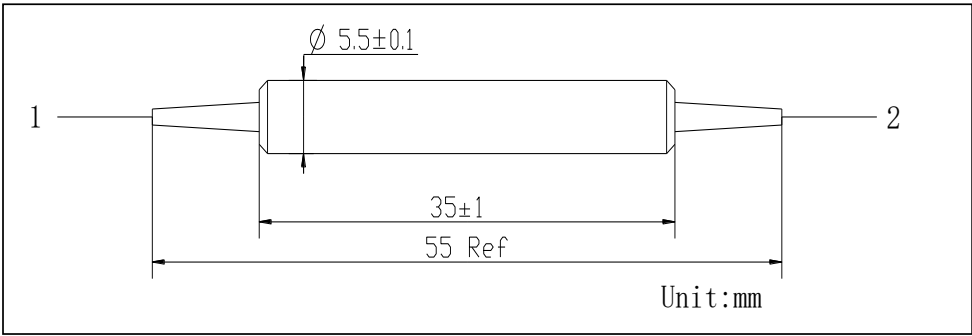
Date:

Specifications

Parameters	Unit	Values
Center Wavelength	nm	850
Operating Wavelength Range	nm	± 20
Typ. Insertion Loss at 23°C	dB	0.8
Max. Insertion Loss at 23°C	dB	1.0
Min. Return Loss	dB	50
Typ. Extinction Ratio at 23°C (Input to Output)	dB	30
Min. Extinction Ratio at 23°C (Input to Output)	dB	28
Min. Extinction Ratio at 23°C (Output to Input)	dB	21 (Only for PM Fiber on Input Port)
Max. Optical Power (CW)	mW	300
Max. Tensile Load	N	5
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to + 85

- *Above specifications are for devices without connectors.
- *For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower, and ER will be 2dB lower.
- *The PM fiber and the connector key are aligned to the slow axis.
- *The material must be RoHS compliant.

Package Dimensions



Ordering information

ILP-①-②-③③-④④-⑤-⑥-⑦

- ①: Wavelength
850 - 850nm
S - Specify

②: Handling Power
0.3 - 0.3W

③③: Connector Type on Port 1 & 2
1A - FC/UPC
2A - FC/APC
3D - SC/UPC
4D - SC/APC
N - None
S - Specify
- ④④: Fiber Jacket on Port 1 & 2
B - 250um Bare Fiber
C - 900um Red Loose Tube
F - 900um White Loose Tube
SS - Specify

⑤: Fiber Type on Port 1 & 2
J - PM 850 Panda Fiber
L - HI 780 Fiber
S - Specify

⑥: Fibre Length
0.8 - 0.8m
S - Specify
- ⑦: Package Type
01 - Ø5.5×35

In-line Polarizer 10xxnm 300mW

Spec No.: CAT-09-002D

Date:

Specifications

Parameters	Unit	Values			
Center Wavelength	nm	1064			
Operating Wavelength Range	nm	± 30			
Typ. Insertion Loss at 23°C	dB	0.4			
Max. Insertion Loss at 23°C	dB	0.6			
Min. Return Loss	dB	50			
Typ. Extinction Ratio at 23°C (Input to Output)	dB	30			
Min. Extinction Ratio at 23°C (Input to Output)	dB	28			
Min. Extinction Ratio at 23°C (Output to Input)	dB	22(Only for PM Fiber On Input Port)			
Min.PDL(Only for SMF on all ports)@23°C	dB	25			
Max. Optical Power (CW)	mW	300			
Max. Tensile Load	N	5	5		
Operating Temperature	°C	-5 to +70			
Storage Temperature	°C	-40 to + 85			

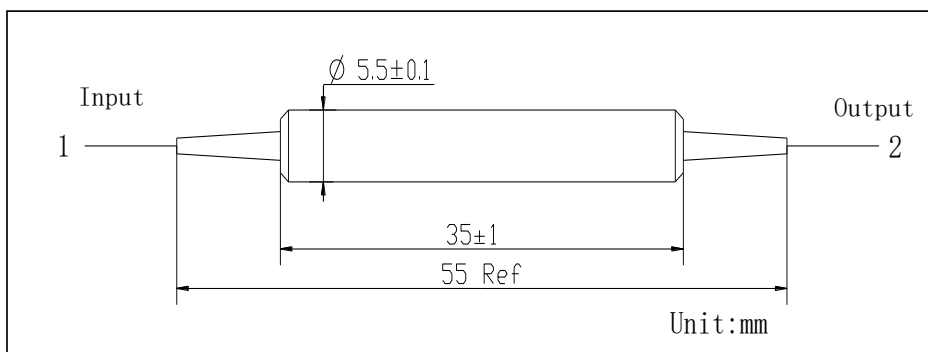
*Above specifications are for devices without connectors.

*For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower, and ER will be 2dB lower.

*The PM fiber and the connector key are aligned to the slow axis.

*The material must be RoHS compliant.

Package Dimensions



Ordering information

ILP-①-②-③③-④④-⑤-⑥-⑦

①: Wavelength

1064 - 1064nm

S - Specify

②: Handling Power

0.3 - 0.3W

③③: Connector Type on Port 1 & 2

1A - FC/UPC

2A - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify

④④: Fiber Jacket on Port 1 & 2

B - Bare Fiber

C - 900um Red Loose Tube

F - 900um White Loose Tube

S - Specify

⑤: Fiber Type on Port 1 & 2

1A - PM 980 Panda Fiber

7 - HI 1060 Fiber

S - Specify

⑥: Fibre Length

0.8 - 0.8m

S - Specify

⑦: Package Type

01 - Ø5.5×35

In-line Polarizer 10xxnm 10W

Spec Review No.: SR0806012D

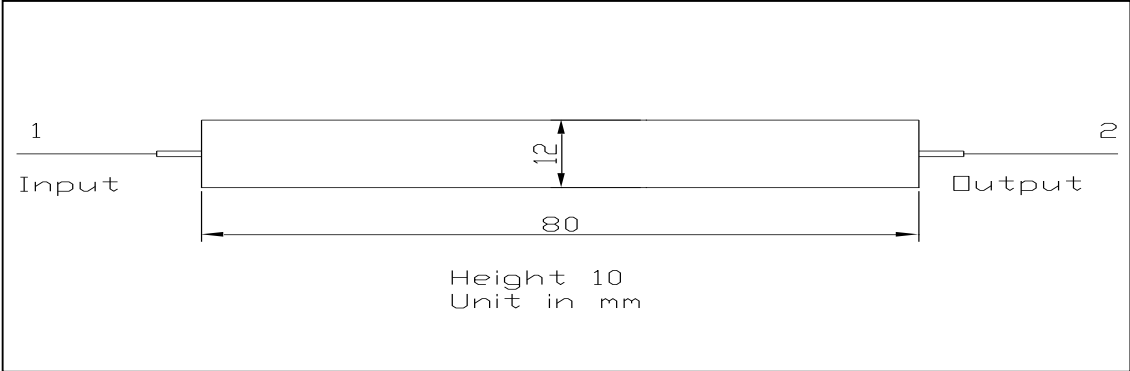
Date: May. 16, 2024

Specifications

Parameters	Unit	Values
Center Wavelength	nm	1064
Operating Wavelength Range	nm	±30
Typ. Insertion Loss at 23°C	dB	0.5
Max. Insertion Loss at 23°C	dB	0.7
Min. Return loss	dB	50
Typ. Extinction ratio at 23°C	dB	30
Min. Extinction Ratio at 23°C (Input to Output)	dB	28
Min. Extinction Ratio at 23°C (Output to Input)	dB	23
Min.PDL(only for Hi 1060 fiber at all ports)at 23°C	dB	25
Max. Optical Power (CW)	W	1 or Specify
Max. Tensile Load	N	5
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

- *Above specifications are for devices without connectors.
- *For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower.
- *The PM fiber and the connector key are aligned to the slow axis.
- *The material must be RoHS compliant.

Package Dimensions



Ordering information

HILP-①-②-③③-④④-⑤-⑥-⑦

- ①: Wavelength
1064 - 1064nm

②: Handling Power
1 - 1W
5 - 5W
10 - 10W
S - Specify
- ③③: Connector Type on Port 1 & 2
1A - FC/UPC
2A - FC/APC
3D - SC/UPC
4D - SC/APC
N - None
S - Specify
- ④④: Fiber Jacket on Port 1 & 2
B - 250um Bare Fiber
C - 900um Red Loose Tube
F - 900um White Loose Tube
S - Specify

⑤: Fiber Type on Port 1 & 2
1A - PM980 Fiber
7 - Hi1060 Fiber
S - Specify
- ⑥: Fibre Length
0.8 - 0.8m
S - Specify

⑦: Package Type
08 - 80×12×10

In-line Polarizer 15xxnm 300mW

Spec No.: CAT-09-003E

Date:

Specifications

Parameters	Unit	Values
Center Wavelength	nm	1310, 1480 or 1550
Operating Wavelength Range	nm	±50
Typ. Insertion Loss at 23°C	dB	0.3
Max. Insertion Loss at 23°C	dB	0.5
Min. Return loss	dB	50
Typ. Extinction Ratio at 23°C (Input to Output)	dB	30
Min. Extinction Ratio at 23°C (Input to Output)	dB	28
Min. Extinction Ratio at 23°C (Output to Input)	dB	23(Only for PM Fiber on Input Port)
Min. PDL(Only for SMF on all ports)@23°C	dB	25
Max. Optical Power (CW)	mW	500 (Based on proper polarization alignment)
Max. Tensile Load	N	5
Fiber Type	-	PM Panda Fiber or SMF-28e
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

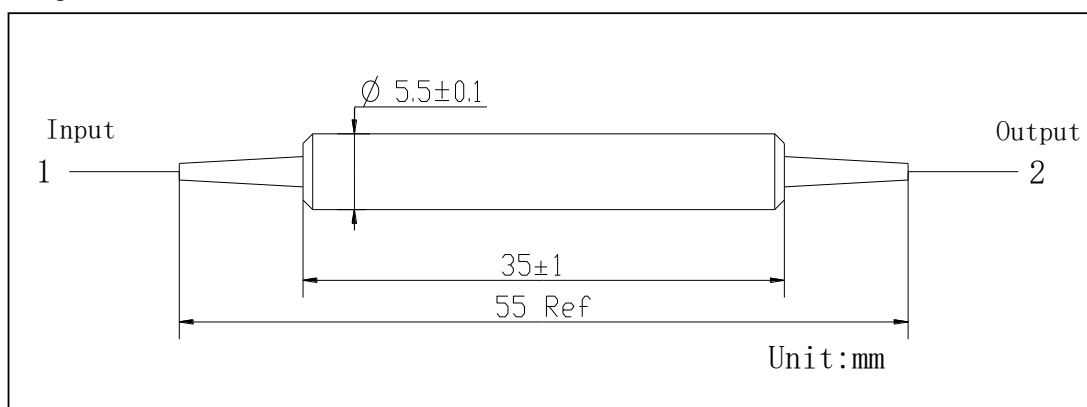
*Above specifications are for devices without connectors.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower.

*The PM fiber and the connector key are aligned to the slow axis.

*The material must be RoHS compliant.

Package Dimensions



Ordering information

ILP-①-②-③③-④④-⑤-⑥-⑦

①: Wavelength

1550 - 1550nm

S - Specify

②: Handling Power

0.5 - 0.5W

③③: Connector Type on Port 1 & 2

1B - FC/UPC

2B - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify

④④: Fiber Jacket on Port 1 & 2

B - 250um Bare Fiber

C - 900um Red Loose Tube

F - 900um White Loose Tube

S - Specify

⑤: Fiber Type on Port 1 & 2

2B - PM1310 Fiber

3B - PM1550 Fiber

8 - SMF-28e Fiber

S - Specify

⑥: Fibre Length

0.8 - 0.8m

S - Specify

⑦: Package Type

01 - Ø5.5×35

High Power In-line Polarizer 15xxnm 10W

Spec No.: CAT-05-015D

Date:

Specifications

Parameters	Unit	Values
Center Wavelength	nm	1310, 1480 or 1550
Operating Wavelength Range	nm	±50
Typ. Insertion Loss at 23°C	dB	0.3
Max. Insertion Loss at 23°C	dB	0.5
Min. Return loss	dB	50
Typ. Extinction ratio at 23°C (Input to Output)	dB	30
Min. Extinction ratio at 23°C (Input to Output)	dB	28
Min. Extinction Ratio at 23°C (Output to Input)	dB	23(Only for PM Fiber on Input Port)
Min.PDL(Only for SMF on all ports)@23°C	dB	25
Max. Optical Power (CW)	W	1, 3, 5,10 or Specify
Max. Peak Power for ns Pulse	kW	10
Max. Tensile Load	N	5
Fiber Type	-	PM Panda Fiber or SMF-28e
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

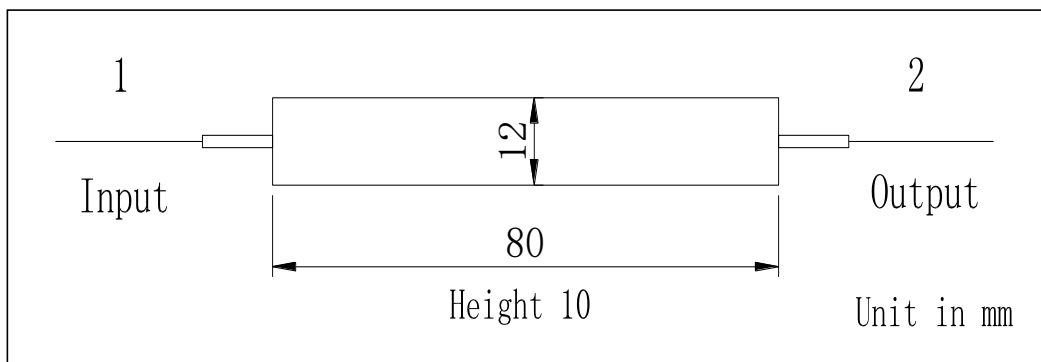
*Above specifications are for devices without connectors.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower,can only handle 1W (CW) power

*The PM fiber and the connector key are aligned to the slow axis.

*The material must be RoHS compliant.

Package Dimensions



Ordering information

HILP-①①①①-②-③③-④④-⑤-⑥-⑦

①①①①: Wavelength
1550 - 1550nm
S - Specify

②: Handling Power
5 - 5W

③③: Connector Type on Port 1 & 2
1A - FC/UPC
2A - FC/APC
3D - SC/UPC
4D - SC/APC
N - None
S - Specify

④④: Fiber Jacket on Port 1 & 2
B - 250um Bare Fiber
C - 900um Red Loose Tube
F - 900um White Loose Tube
S - Specify

⑤: Fiber Type on Port 1 & 2
3A - PM1550 Fiber
8 - SMF-28e Fiber
S - Specify

⑥: Fibre Length
0.8 - 0.8m
S - Specify

⑦: Package Type
08 - 80×12×10

In-line Polarizer 19xxnm 300mW

Spec No.: CAT-10-019C

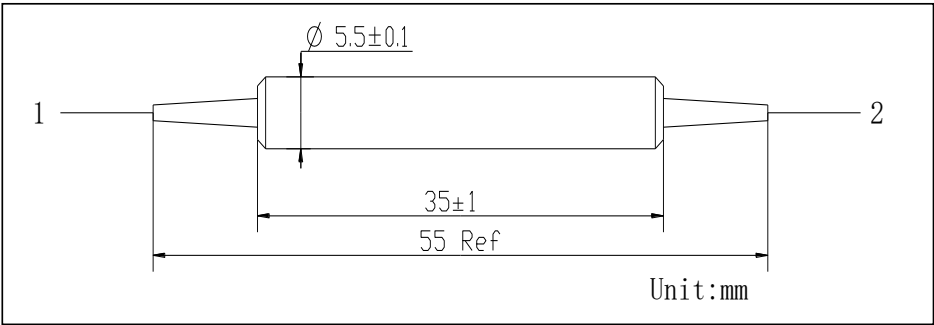
Date:

Specifications

Parameters	Unit	Values	
Center Wavelength	nm	2000	
Operating Wavelength Range	nm	±50	
Typ. Insertion Loss at 23°C	dB	0.6	0.8
Max. Insertion Loss at 23°C	dB	0.8	1.0
Min. Return Loss	dB	50	
Typ. Extinction ratio at 23°C	dB	28	
Min. Extinction ratio at 23°C	dB	25	
Min.PDL(Only for SMF on all ports)@23°C	dB	22	
Max. Optical Power (CW)	mW	500 (Based on proper polarization alignment)	
Max. Tensile Load	N	5	
Fiber Type	-	SMF-28e Fiber or PM 1550 Fiber	SM 1950 Fiber or PM 1950 Fiber
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	

*Above specifications are for devices without connectors.
 *For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower.
 *The PM fiber and the connector key are aligned to the slow axis.

Package Dimensions



Ordering information

ILP-①-②②-③③-④-⑤-⑥

①: Wavelength
 2000 - 2000nm
 S - Specify

②②: Connector Type on Port 1 & 2
 1A - FC/UPC
 2A - FC/APC
 3D - SC/UPC
 4D - SC/APC
 N - None
 S - Specify

③③: Fiber Jacket on Port 1 & 2
 B - Bare Fiber
 C - 900um Red Loose Tube
 F - 900um White Loose Tube
 S - Specify

④④: Fiber Type on Port 1 & 2
 8 - SMF-28e Fiber
 3B - PM 1550 Fiber
 F5 - SM 1950 Fiber
 B10 - PM 1950 Fiber
 S - Specify

⑤: Fibre Length
 0.8 - 0.8m
 S - Specify

⑥: Package Type
 01 - Ø5.5×35

High Power In-line Polarizer 19xxnm 10W

Spec Review No.: SR2305031A

Date: May. 10, 2023

Specifications

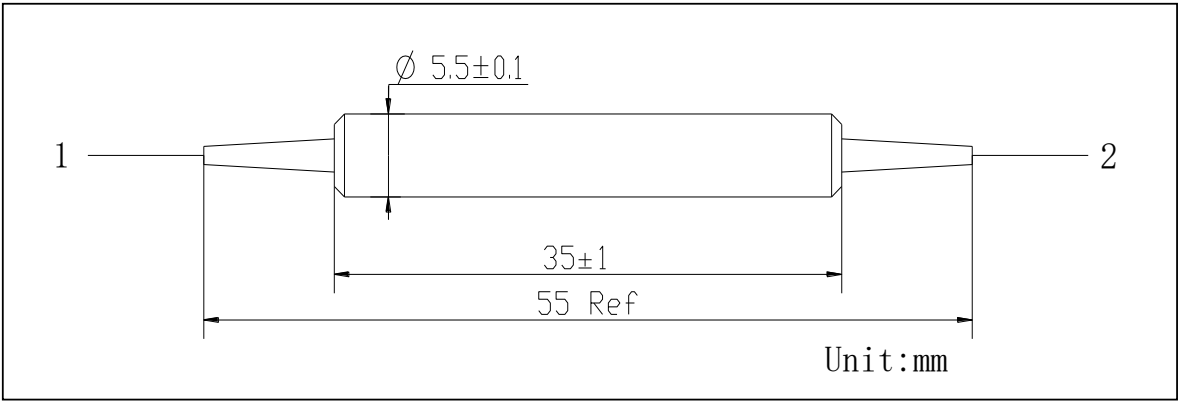
Parameters	Unit	Values	
Center Wavelength	nm	2000	
Operating Wavelength Range	nm	±50	
Typ. Insertion Loss at 23°C	dB	0.6	0.8
Max. Insertion Loss at 23°C	dB	0.8	1.0
Min. Return loss	dB	50	
Typ. Extinction ratio at 23°C (only for Output is PM Fiber)	dB	28	
Min. Extinction ratio at 23°C (only for Output is PM Fiber)	dB	25	
Min. PDL at 23°C (only for Input is SM Fiber)	dB	22	
Max. Optical Power (CW)	W	1 or Specify	
Max. Tensile Load	N	5	
Fiber Type	-	SMF-28e Fiber or PM 1550 Fiber	SM 1950 Fiber or PM 1950 Fiber
Operating Temperature	°C	-5 to + 70	
Storage Temperature	°C	-40 to +85	

*Above specifications are for devices without connectors.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower, optical power is only 1W.

* The material must be RoHS compliant.

Package Dimensions



Ordering information

HILP-①①①①-②②-③③-④④-⑤-⑥-⑦

- ①①①①: Wavelength
2000 - 2000nm
S - Specify

②: Handling Power
01 - 1W
S - Specify

③③: Connector Type on Port 1 & 2
1B - FC/UPC
2B - FC/APC (Step)
3B - SC/UPC
4B - SC/APC (Step)
N - None
S - Specify
- ④④: Fiber Jacket on Port 1 & 2
B - Bare Fiber
C - 900um Red Loose Tube
F - 900um White Loose Tube
S - Specify

⑤: Fiber Type on Port 1 & 2
8 - SMF-28e Fiber
3B - PM 1550 Fiber
F5 - SM 1950 Fiber
B10 - PM 1950 Fiber
S - Specify
- ⑥: Fibre Length
1 - 1m
S - Specify

⑦: Package Type
01 - $\varnothing 5.5 \times 35$

Isolator Polarization Beam Combiner/Splitter 10xxnm 300mW

Spec No.: CAT-09-004C

Date

Specifications

Parameter	Unit	Values
Stage		Single stage
Center Wavelength	nm	1064
Operating Wavelength Range	nm	± 5
Min. Isolation at 23°C	dB	25
Typ. Isolation	dB	35
Typ. Insertion Loss	dB	1.8
Max. Insertion Loss	dB	2.1
Min. Return Loss	dB	50
Min. Directivity	dB	50
Min. Extinction Ratio (for Splitter only)	dB	20
Max. Optical Power (CW)	mW	300
Max. Tensile Load	N	5
Operating Temperature	°C	-5 to + 50
Storage Temperature	°C	-40 to +85

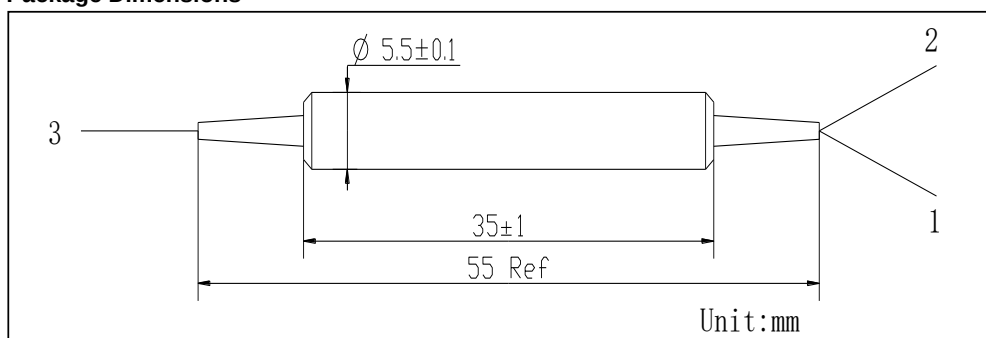
* Above specifications are for device without connector.

* For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower, and ER will be 2dB lower.

* The PM fiber and the connector key are aligned to the slow axis.

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

IPBC-①-②-③③③-④④④-⑤⑤-⑥-⑦-⑧

IPBS-①-②-③③③-④④④-⑤⑤-⑥-⑦-⑧

①: Wavelength

1064 - 1064nm

②: Stage

S - Single Stage

③③③: Connector Type on Port 1, 2 & 3

1B - FC/UPC

2B - FC/APC (Step)

3D - SC/UPC

4D - SC/APC (Step)

N - None

S - Specify

④④④: Fiber Jacket on Port 1, 2 & 3

B - Bare Fiber

C - 900um Red Loose Tube (PM Fiber)

F - 900um White Loose Tube (SM Fiber)

SS - Specify

⑤⑤: Fiber Type

03B - Port 1, 2&3: PM980

11B - Port 1&2: PM980, Port 3: HI1060

18 - Port 1, 2&3: HI1060

S - Specify

⑥: Axis Alignment on Port 3

1 - SM Fiber, Align to Port 1 &2 Slow Axis

2 - PM Fiber, Slow Axis Align 45°to Port 1

3 - PM Fiber, Slow Axis Align to Port 1

4 - All Ports are SM Fiber

S - Specify

⑦: Fiber Length

0.8 - 0.8m

S - Specify

⑧: Package Dimensions

01 - Ø5.5×35

S - Specify

High Power Polarization Maintaining Tap Isolator Hybrid 10xxnm 300mW

Spec Review No.: SR2405019B

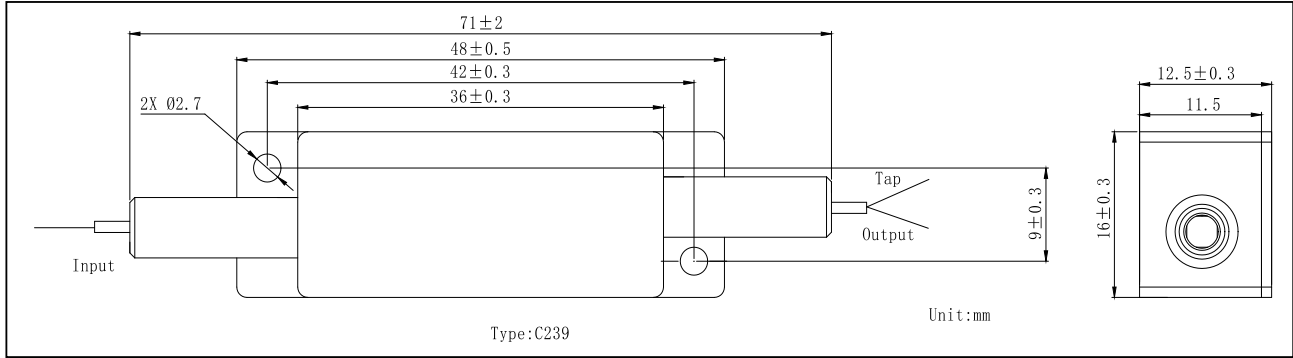
Date: May. 14, 2024

Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	1030 or Specify
Operating Wavelength Range	nm	± 10
Typ. Excess Loss at $\lambda_c, 23^\circ\text{C}$	dB	0.7
Max. Excess Loss at $\lambda_c, 23^\circ\text{C}$	dB	1.0
Typ. Peak Isolation at $\lambda_c, 23^\circ\text{C}$	dB	28~33
Min. Isolation at $\lambda_c, 23^\circ\text{C}$	dB	26
Tap Ratio at $\lambda_c, 23^\circ\text{C}$	%	0.3 ± 0.1 , 01 ± 0.5 or Specify
Min. ER at 23°C (Output)	dB	20
Min. Return Loss (Input/Output)	dB	50
Max. Average Power @ Proper SOP	W	5 or Specify
Max. Peak Power for ns Pulse	kW	10
Max. Tensile Load	N	5
Operating Temperature	$^\circ\text{C}$	0 to +50
Storage Temperature	$^\circ\text{C}$	-20 to +75

- *Above parameter only for inner core.
- * Above specifications are for device without connector.
- * For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower,ER will be 2dB lower & handling power will be only 1W(CW)
- * The PM fiber and connector key are aligned to the slow axis.
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMTAPI-①①-②-③③-④④-⑤-⑥-⑦-⑧-⑨

- | | | |
|---|--|---|
| ①①: Wavelength
03 - 1030nm
S - Specify | ④④: Handling Power
05 - 5W
S - Specify | ⑦: Fiber Jacket
B - Bare Fiber
C - 900um Loose Tube |
| ②: Package Type
C239 - Type C239 | ⑤: Axis Alignment
F - Fast Axis Blocked | ⑧: Fiber Length
0.6 - 0.6m
S - Specify |
| ③③: Tap Ratio
0.3 - 0.3%
01 - 1%
S - Specify | ⑥: Connector Type
N - None
S - Specify | ⑨: Fiber Type
1 - PM980 Fiber
45 - PLMA-GDF 10/125-M NA0.075 Fiber
65 - Nufern PM1060L 10/125 GSF NA0.085 Fiber
S - Specify |

High Power Polarization Maintaining Tap Isolator Hybrid 10xxnm 10W

Spec Review No.: SR2311086A

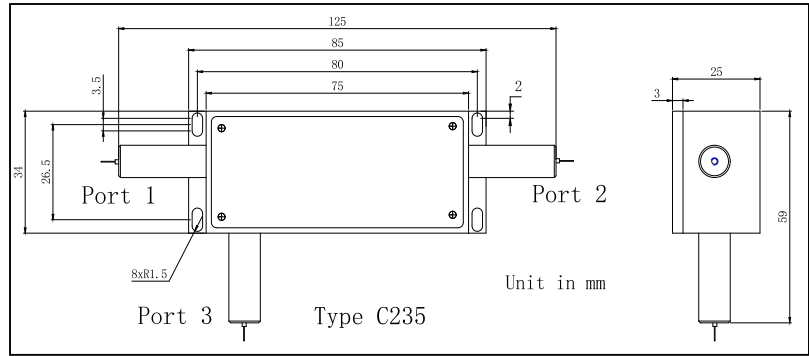
Date: Nov. 23, 2023

Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	1070 or Specify
Operating Wavelength Range	nm	± 20
Typ. Insertion Loss(λ_c),23℃, Port 2 to Port 1	dB	0.6
Max. Insertion Loss(λ_c),23℃, Port 2 to Port 1	dB	1.0
Min. Isolation(λ_c)23℃, Port 1 to Port 2		30
Min. Isolation($\lambda \pm 10\text{nm}$)23℃, Port 1 to Port 2	dB	26
Min. Isolation($\lambda \pm 20\text{nm}$)23℃, Port 1 to Port 2	dB	22
Tap Ratio(λ_c) ,Port 2 to Port 3	%	0.3 $\pm$ 0.1 or Specify
Min. ER(only for Port 2 to Port 1)	dB	20
Min. Return Loss (only for Port 1 & 2)	dB	50
Max. Average Power @ Proper SOP	W	30 or Specify
Max. Peak Power for ns Pulse	kW	10
Max. Tensile Load	N	5
Operating Temperature	℃	0 to +50
Storage Temperature	℃	-20 to+75

- *Above parameter only for inner core.
- * Above specifications are for device without connector.
- * For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower,ER will be 2dB lower & handling power will be only 1W(CW)
- * The PM fiber and connector key are aligned to the slow axis.
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMTAPI-①①-②-③③-④④-⑤-⑥⑥⑥-⑦⑦⑦-⑧-⑨⑨⑨

- | | | |
|--|--|---|
| ①①: Wavelength
07 - 1070nm
S - Specify | ④④: Handling Power
30 - 30W
S - Specify | ⑦⑦⑦: Fiber Jacket on Port 1/2/3
B - Baer Fiber
S - Specify |
| ②: Package Type
C235 - Type C235 | ⑤: Axis Alignment
F - Fast Axis Blocked | ⑧: Fiber Length on Port 1/2/3
0.6 - 0.6m
S - Specify |
| ③③: Tap Ratio
0.3 - 0.3%
S - Specify | ⑥⑥⑥: Connector Type on Port 1/2/3
1A - FC/UPC
2A - FC/APC(Step)
N - None
S - Specify | ⑨⑨⑨:Fiber Type on Port 1/2/3
S1 - Hi1060 Fiber
45 - Nufern PLMA-GDF-10/125-M NA0.075 Fiber
63 - Nufern FUD-3270 PM12.5/125 NA0.06 Fiber
S - Specify |

Spec No.: CAT-09-005C

Date

Specifications

Parameter	Unit	Values	
Stage		Single stage	Dual stage
Center Wavelength	nm	1310, 1480 or 1550	
Operating Wavelength Range	nm	±40	
Typ. Insertion loss	dB	0.45	0.55
Max. Insertion loss	dB	0.7	0.8
Typ. Isolation	dB	38	52
Min. Isolation @23℃	dB	20	42
Min. Extinction Ratio (for Splitter only)	dB	20	20
Min. Return Loss	dB	50	
Min. Directivity	dB	50	
Max. Optical Power (CW)	mW	500	
Max. Tensile Load	N	5	
Fiber Type		PM Panda Fiber on Port 1 and 2, SMF-28e Fiber or PM Panda Fiber on Port 3	
Operating Temperature	℃	-5 to +70	
Storage Temperature	℃	-40 to +85	

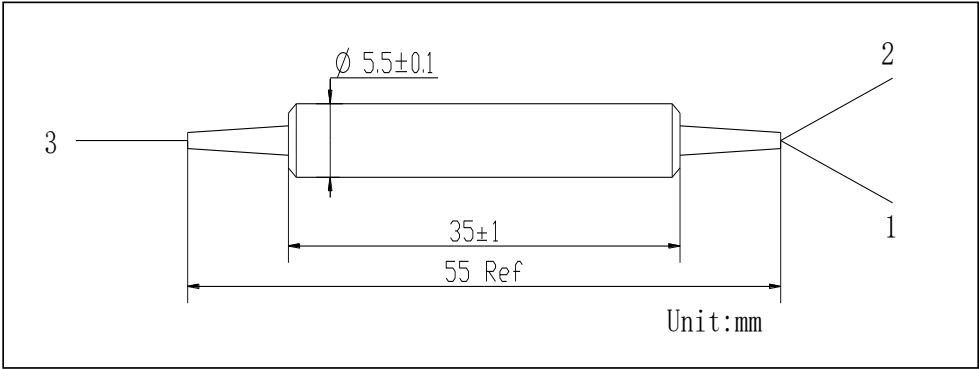
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower.

*The PM fiber and the connector key are aligned to the slow axis.

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

IPBC-①-②-③③③-④④④-⑤⑤-⑥-⑦-⑧

IPBS-①-②-③③③-④④④-⑤⑤-⑥-⑦-⑧

- ①: Wavelength

1310 - 1310nm

1480 - 1480nm

1550 - 1550nm

S - Specify
- ④④④: Fiber Jacket on Port 1, 2 & 3

B - Bare Fiber

C - 900um Red Loose Tube (PM Fiber)

F - 900um White Loose Tube (SM Fiber)

SS - Specify
- ⑥: Axis Alignment on Port 3

1 - SM Fiber, Align to Port 1 & 2 Slow Axis

2 - PM Fiber, Slow Axis Align 45°to Port 1

3 - PM Fiber, Slow Axis Align to Port 1

4 - All Ports are SM Fiber

S - Specify
- ②: Stage

S - Single Stage

D - Dual Stage
- ⑤⑤: Fiber Type

05B - Port 1, 2&3: PM1300

06B - Port 1, 2&3: PM14XX

07B - Port 1, 2&3: PM1550

13B - Port 1&2: PM1300, Port 3: SMF-28e

14B - Port 1&2: PM14XX, Port 3: SMF-28e

15B - Port 1&2: PM1550, Port 3: SMF-28e

19 - Port 1, 2&3: SMF-28e

S - Specify
- ⑦: Fiber Length

0.8 - 0.8m

S - Specify
- ③③③: Connector Type on Port 1, 2 & 3

1B - FC/UPC

2B - FC/APC (Step)

3D - SC/UPC

4D - SC/APC (Step)

N - None

S - Specify
- ⑧: Package Dimensions

01 - $\varnothing 5.5 \times 35$

S - Specify

High Power Isolator Polarization Beam Combiner/Splitter 15xxnm 10W

Spec No.: CAT-05-051C

Date:

Specifications

Parameter	Unit	Values	
Stage	-	Single stage	Dual stage
Center Wavelength	nm	1310, 1480 or 1550	
Operating Wavelength Range	nm	±40	
Typ. Insertion loss	dB	0.65	0.75
Max. Insertion loss	dB	0.9	1.0
Typ. Isolation	dB	38	52
Min. Isolation @23℃	dB	20	42
Min. Extinction Ratio (for Splitter only)	dB	20	20
Min. Return Loss	dB	50	
Min. Directivity	dB	50	
Max. Optical Power (CW)	W	1, 3, 5 or Specify	
Max. Peak Power for ns Pulse	kW	10	
Max. Tensile Load	N	5	
Operating Temperature	℃	-5 to +70	
Storage Temperature	℃	-40 to +85	

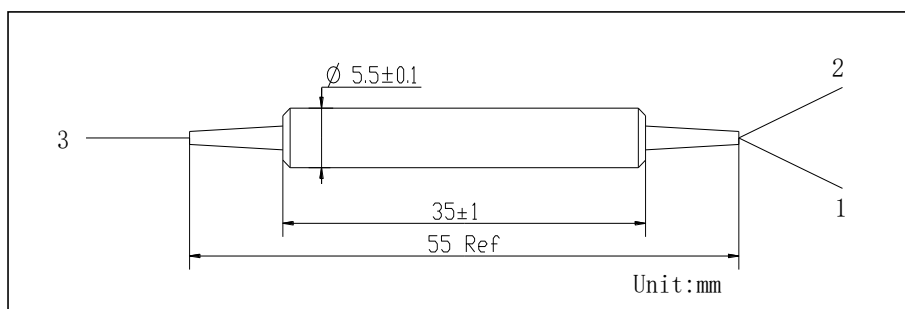
* Above specifications are for device without connector.

* For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower and optical power is only 1W(CW).

* The PM fiber and the connector key are aligned to the slow axis.

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

HIPBC-①①-②-③③-④④④-⑤⑤⑤-⑥-⑦

HIPBS-①①-②-③③-④④④-⑤⑤⑤-⑥-⑦

①: Wavelength

1310 - 1310nm

1480 - 1480nm

1550 - 1550nm

S - Specify

②: Stage

S - Single Stage

D - Dual Stage

③③: Handling Power

01 - 1W

SS - Specify

④④④: Connector Type on Port 1, 2 & 3

1B - FC/UPC

2B - FC/APC (Step)

3D - SC/UPC

4D - SC/APC (Step)

N - None

S - Specify

⑤⑤⑤: Fiber Jacket on Port 1, 2 & 3

B - Bare Fiber

C - 900um Red Loose Tube (PM Fiber)

F - 900um White Loose Tube (SM Fiber)

SS - Specify

⑥⑥: Fiber Type

05B - Port 1, 2&3: PM1300

06B - Port 1, 2&3: PM14XX

07B - Port 1, 2&3: PM1550

13B - Port 1&2: PM1300, Port 3: SMF-28e

14B - Port 1&2: PM14XX, Port 3: SMF-28e

15B - Port 1&2: PM1550, Port 3: SMF-28e

19 - Port 1, 2&3: SMF-28e

S - Specify

⑦: Axis Alignment on Port 3

1 - SM Fiber, Align to Port 1 & 2 Slow Axis

2 - PM Fiber, Slow Axis Align 45° to Port 1

3 - PM Fiber, Slow Axis Align to Port 1

4 - All Ports are SM Fiber

S - Specify

⑧: Fiber Length

0.8 - 0.8m

S - Specify

⑨: Package Dimensions

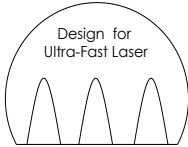
01 - Ø5.5×35

S - Specify

Polarization Maintaining Tap Isolator 10xxnm 300mW

Spec No.: CAT-11-008B

Date:



Specifications

Instruments

Parameters	Unit	Values	
Stage	-	Single Stage	Dual Stage
Center Wavelength	-	1064	
Operating Wavelength Range	nm	±5	
Max. Excess Loss	dB	2.0	3.4
Tap Ratio (Input to Tap)	%	1+/-0.2, 10+/-2.0 or Specify	
Uniformity (only for 50/50)	dB	0.5	0.7
Typ. Peak Isolation (Output to Input)	dB	35	58
Min. Isolation at 23℃	dB	28	48
Min. Extinction Ratio (only for B Type)	dB	20	20
Min. Extinction Ratio (only for F Type)	dB	23	23
Min. Return Loss (for all ports)	dB	50	50
Max. Optical Average Power (Proper SOP)	mW	300	
Max. Peak Power for ps Pulse (Proper SOP)	kW	0.5, 1 or Specify	
Max. Tensile Load	N	5	
Operating Temperature	℃	-5 to +50	
Storage Temperature	℃	-40 to +85	

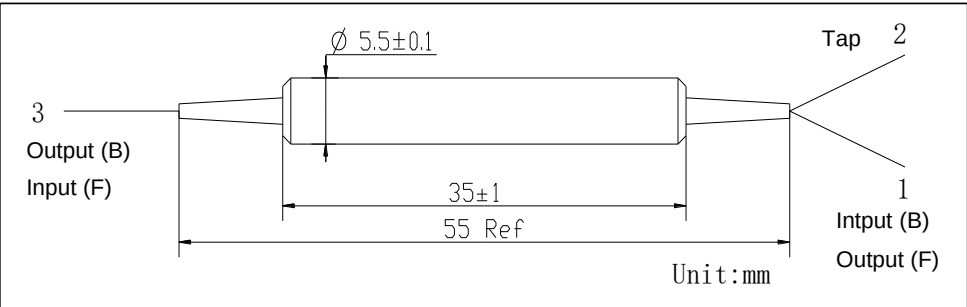
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower, ER will be 2dB lower.

*The PM fiber and the connector key are aligned to the slow axis.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMTAPI-UF-①-②-③③-④④-⑤-⑥⑥⑥-⑦⑦⑦-⑧-⑨-⑩

①: Wavelength
1064 - 1064nm

②: Stage Type
S - Single Stage
D - Dual Stage

③③: Tap Ratio
01 - 1%
10 - 10%
SS - Specify

④④: Average /Peak Power
0.3/1 - 0.3W /1kW
SS - Specify

⑤: Axis Alignment
F - Fast Axis Blocked
B - Both Axis Working

⑥⑥⑥: Connector Type on Port 1, 2 &3
1B - FC/UPC
2B - FC/APC (Step)
3D - SC/UPC
4D - SC/APC (Step)
N - None
S - Specify

⑦⑦⑦: Fiber Jacket on Port 1, 2 &3
B - Bare Fiber
C - 900um Red Loose Tube (PM Fiber)
F - 900um White Loose Tube (SM Fiber)
SS - Specify

⑧: Fiber Type
03B - Port 1, 2&3: PM980
11B - Port 1&3: PM980, Port 2: HI1060
S - Specify

⑨: Fiber Length
0.8 - 0.8 m
S - Specify

⑩: Package Dimensions
01 - Ø5.5×35

High Power Polarization Maintaining Tap Isolator Hybrid 10xxnm 300mW

Spec Review No.: SR2405019B

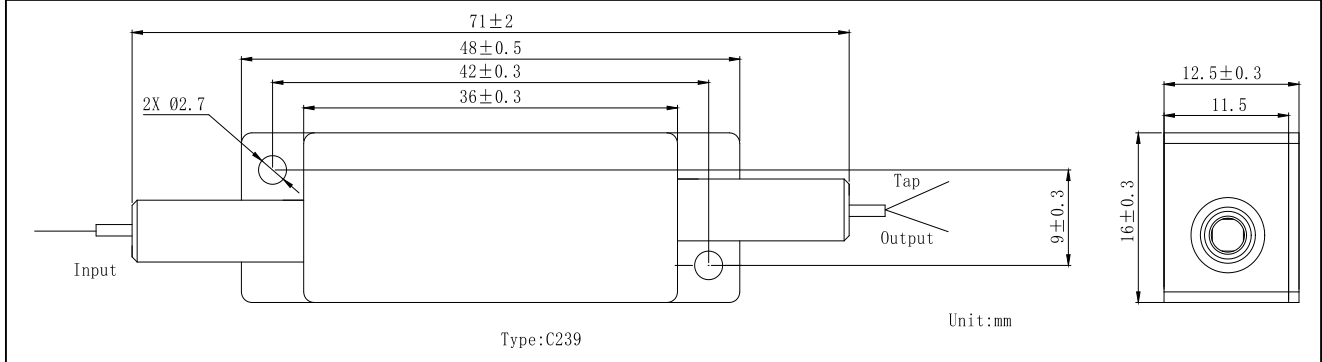
Date: May. 14, 2024

Specifications

Parameters	Unit	Values
Center Wavelength (λc)	nm	1030 or Specify
Operating Wavelength Range	nm	±10
Typ. Excess Loss at λc,23℃	dB	0.7
Max. Excess Loss at λc,23℃	dB	1.0
Typ. Peak Isolation at λc,23℃	dB	28~33
Min. Isolation at λc,23℃	dB	26
Tap Ratio at λc,23℃	%	0.3±0.1 ,01±0.5 or Specify
Min. ER at 23℃ (Output)	dB	20
Min. Return Loss (Input/Output)	dB	50
Max. Average Power @ Proper SOP	W	5 or Specify
Max. Peak Power for ns Pulse	kW	10
Max. Tensile Load	N	5
Operating Temperature	℃	0 to +50
Storage Temperature	℃	-20 to+75

- *Above parameter only for inner core.
- * Above specifications are for device without connector.
- * For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower,ER will be 2dB lower & handling power will be only 1W(CW)
- * The PM fiber and connector key are aligned to the slow axis.
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMTAPI-①①-②-③③-④④-⑤-⑥-⑦-⑧-⑨

- | | | |
|---|--|---|
| ①①: Wavelength
03 - 1030nm
S - Specify | ④④: Handling Power
05 - 5W
S - Specify | ⑦: Fiber Jacket
B - Bare Fiber
C - 900um Loose Tube |
| ②: Package Type
C239 - Type C239 | ⑤: Axis Alignment
F - Fast Axis Blocked | ⑧: Fiber Length
0.6 - 0.6m
S - Specify |
| ③③: Tap Ratio
0.3 - 0.3%
01 - 1%
S - Specify | ⑥: Connector Type
N - None
S - Specify | ⑨: Fiber Type
1 - PM980 Fiber
45 - PLMA-GDF 10/125-M NA0.075 Fiber
65 - Nufern PM1060L 10/125 GSF NA0.085 Fiber
S - Specify |

High Power Polarization Maintaining Tap Isolator Hybrid 10xxnm 10W

Spec Review No.: SR2311086A

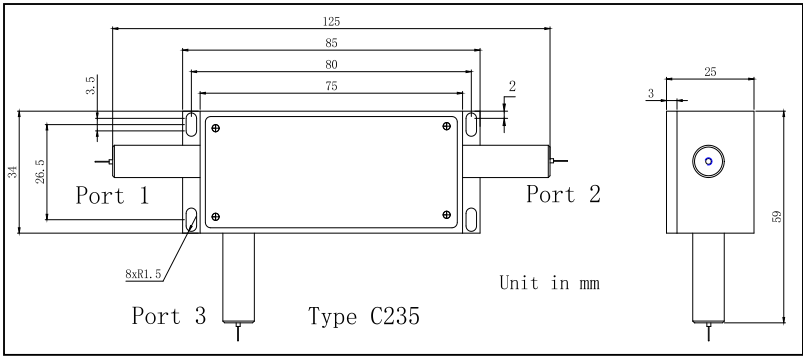
Date: Nov. 23, 2023

Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	1070 or Specify
Operating Wavelength Range	nm	± 20
Typ. Insertion Loss(λ_c),23℃, Port 2 to Port 1	dB	0.6
Max. Insertion Loss(λ_c),23℃, Port 2 to Port 1	dB	1.0
Min. Isolation(λ_c)23℃, Port 1 to Port 2		30
Min. Isolation($\lambda \pm 10\text{nm}$)23℃, Port 1 to Port 2	dB	26
Min. Isolation($\lambda \pm 20\text{nm}$)23℃, Port 1 to Port 2	dB	22
Tap Ratio(λ_c) ,Port 2 to Port 3	%	0.3 $\pm$ 0.1 or Specify
Min. ER(only for Port 2 to Port 1)	dB	20
Min. Return Loss (only for Port 1 & 2)	dB	50
Max. Average Power @ Proper SOP	W	30 or Specify
Max. Peak Power for ns Pulse	kW	10
Max. Tensile Load	N	5
Operating Temperature	℃	0 to +50
Storage Temperature	℃	-20 to+75

- *Above parameter only for inner core.
- * Above specifications are for device without connector.
- * For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower,ER will be 2dB lower & handling power will be only 1W(CW)
- * The PM fiber and connector key are aligned to the slow axis.
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMTAPI-①①-②-③③-④④-⑤-⑥⑥⑥-⑦⑦⑦-⑧-⑨⑨⑨

- | | | |
|--|--|---|
| ①①: Wavelength
07 - 1070nm
S - Specify | ④④: Handling Power
30 - 30W
S - Specify | ⑦⑦⑦: Fiber Jacket on Port 1/2/3
B - Baer Fiber
S - Specify |
| ②: Package Type
C235 - Type C235 | ⑤: Axis Alignment
F - Fast Axis Blocked | ⑧: Fiber Length on Port 1/2/3
0.6 - 0.6m
S - Specify |
| ③③: Tap Ratio
0.3 - 0.3%
S - Specify | ⑥⑥⑥: Connector Type on Port 1/2/3
1A - FC/UPC
2A - FC/APC(Step)
N - None
S - Specify | ⑨⑨⑨:Fiber Type on Port 1/2/3
S1 - Hi1060 Fiber
45 - Nufern PLMA-GDF-10/125-M NA0.075 Fiber
63 - Nufern FUD-3270 PM12.5/125 NA0.06 Fiber
S - Specify |

Polarization Maintaining Tap Isolator 15xxnm 300mW

Spec No.: CAT-09-030C

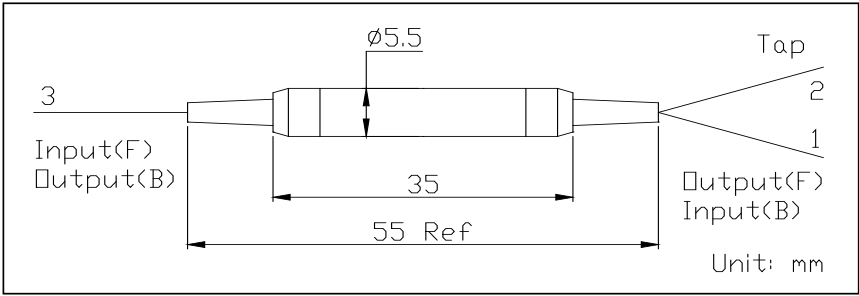
Date

Specifications

Parameters	Unit	Values	
Stage		Single Stage	Dual Stage
Center Wavelength		1310, 1480, 1550, 1590	
Operating Wavelength Range	nm	+/-20	
Max. Excess Loss	dB	0.8	0.9
Tap Ratio (Input to Tap)	%	1+/-0.2, 5+/-1.0, 10+/-2.0 or Specify	
Typ. Peak Isolation (Output to Input)	dB	40	58
Min. Isolation at 23℃	dB	28	48
Min. Extinction Ratio (only for B Type)	dB	20	20
Min. Extinction Ratio (only for F Type)	dB	23	23
Min. Return Loss (for all ports)	dB	50	50
Max. Optical Power (CW)	mW	500	
Max. Tensile Load	N	5	
Fiber Type		PM 1550 Panda Fiber for Input and Output Ports, SMF-28e Fiber or Panda Fiber for Tap Port	
Operating Temperature	℃	0 to +70	
Storage Temperature	℃	-40 to +85	

- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, ER will be 2dB lower.
- *The PM fiber and the connector key are aligned to the slow axis and fast axis is blocked.
- *The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMTAPI-①-②-③③-④-⑤⑤⑤-⑥⑥⑥-⑦-⑧-⑨⑨

- | | | |
|------------------|--------------------------------------|---|
| ①①: Wavelength | ④: Axis Alignment | ⑦: Fiber Type |
| 1310 - 1310nm | F - Fast Axis Blocked | 05B - Port 1, 2&3: PM1300 |
| 1480 - 1480nm | B - Both Axis Working | 07B - Port 1, 2&3: PM1550 |
| 1550 - 1550nm | | 13B - Port 1&3: PM1300, Port 2: SMF-28e |
| 1590 - 1590nm | ⑤⑤⑤: Connector Type on Port 1, 2 & 3 | 15B - Port 1&3: PM1550, Port 2: SMF-28e |
| S - Specify | 1B - FC/UPC | 19 - Port 1, 2&3: SMF-28e |
| | 2B - FC/APC (Step) | S - Specify |
| ②: Stage | 3D - SC/UPC | |
| S - Single Stage | 4D - SC/APC (Step) | ⑧: Fiber Length |
| D - Dual Stage | N - None | 0.8 - 0.8m |
| | S - Specify | S - Specify |
| ③③: Tap Ratio | ⑥⑥⑥: Fiber Jacket on Port 1, 2 & 3 | ⑨⑨: Package Type |
| 01 - 1% | B - Bare Fiber | 01 - Ø5.5×35 |
| 05 - 5% | C - 900um Red Loose Tube | 10 - Ø5.5×35(Without Rub) |
| 10 - 10% | F - 900um White Loose Tube | |
| SS - Specify | S - Specify | |

Spec No.: CAT-05-054C

Date:

Specifications

Parameters	Unit	Values	
Stage	-	Single Stage	Dual Stage
Center Wavelength	-	1310, 1480, 1550, 1590 or Specify	
Operating Wavelength Range	nm	+/-20	
Max. Excess Loss	dB	1.0	1.1
Tap Ratio (Input to Tap)	%	1+/-0.2, 5+/-1.0, 10+/-2.0 or Specify	
Typ. Peak Isolation (Output to Input)	dB	40	58
Min. Isolation at 23℃	dB	28	48
Min. Extinction Ratio (only for B Type)	dB	20	
Min. Extinction Ratio (only for F Type)	dB	23	
Min. Return Loss (for all ports)	dB	50	
Max. Optical Power (CW)	W	1, 3, 5 or Specify	
Max. Peak Power for ns Pulse	kW	10	
Max. Tensile Load	N	5	
Fiber Type	-	PM 1550 Panda Fiber for Input and Output Ports, SMF-28e Fiber or Panda Fiber for Tap Port	
Operating Temperature	℃	-5 to +70	
Storage Temperature	℃	-40 to +85	

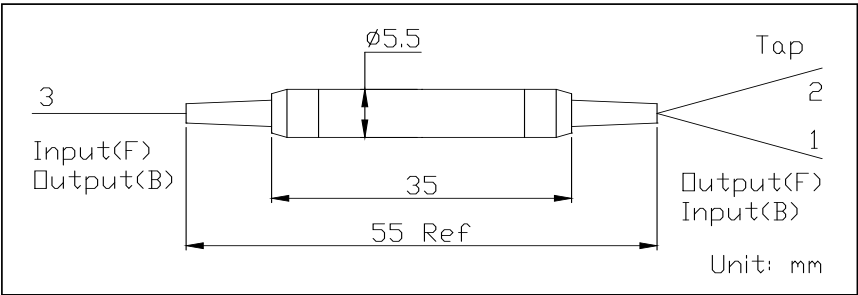
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, ER will be 2dB lower and optical power is only 1000mW(CW).

*The PM fiber and the connector key are aligned to the slow axis and fast axis is blocked.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMTAPI-①-②-③③-④④-⑤-⑥⑥⑥-⑦⑦⑦-⑧⑧-⑨-⑩⑩

- ①: Wavelength
1310 - 1310nm
1480 - 1480nm
1550 - 1550nm
1590 - 1590nm
S - Specify

④④: Handling Power
01 - 1W
SS - Specify
- ②: Stage
S - Single Stage
D - Dual Stage

⑤: Axis Alignment
F - Fast Axis Blocked
B - Both Axis Working
- ③③: Tap Ratio
01 - 1%
05 - 5%
10 - 10%
SS - Specify

⑥⑥⑥: Connector Type on Port 1, 2 & 3
1B - FC/UPC
2B - FC/APC (Step)
3D - SC/UPC
4D - SC/APC (Step)
N - None
S - Specify
- ⑦⑦⑦: Fiber Jacket on Port 1, 2 & 3
B - Bare Fiber
C - 900um Red Loose Tube
F - 900um White Loose Tube
S - Specify

⑧⑧: Fiber Type
07B - Port 1, 2&3: PM1550
15B - Port 1&3: PM1550, Port 2: SMF-28e
S - Specify
- ⑨: Fiber Length
0.8 - 0.8 m
S - Specify

⑩⑩: Package Type
01 - Ø5.5×35

Polarization Maintaining Isolator WDM Hybrid 10xxnm 300mW

Spec Review No.: SR1008020B

Date: May. 6, 2024

Specifications

Parameters	Unit	Values
Isolator Stage	-	Single Stage
Signal Band Wavelength Range	nm	1064+/-5
Reflection Band Wavelength Range	nm	970~985
Typ. Signal IL, 23℃ (only at Slow Axis)	dB	1.7(@1064nm)
Max. Signal IL, 23℃ (only at Slow Axis)	dB	2.2(@1064nm)
Typ. IL over Reflection Band	dB	0.4
Max. IL over Reflection Band	dB	0.6
Min. Signal Isolation, port 1 to port 3 (Forward Pump) or port 3 to port 1 (Backward Pump), 23℃	dB	35(@1064nm)
Min. Isolation, port 1 to port 2, Signal Wavelength	dB	13
Min. Isolation, Signal Channel, Reflection Wavelength	dB	30
Min. Return Loss	dB	50
Min. Extinction Ratio (only for Signal Channel)	dB	23
Min. PDL (only for Signal Channel)	dB	23
Max. PDL (only for Reflection Channel)	dB	0.1
Max. Optical Power (CW)	mW	500 for Reflection Channel, 300 for Signal Channel
Max. Tensile Load	N	5
Fiber Type	-	PM Panda Fiber for Signal and Common Port
		HI 1060 Fiber for Reflection Port
Operating Temperature	℃	-5 to +50
Storage Temperature	℃	-40 to +85

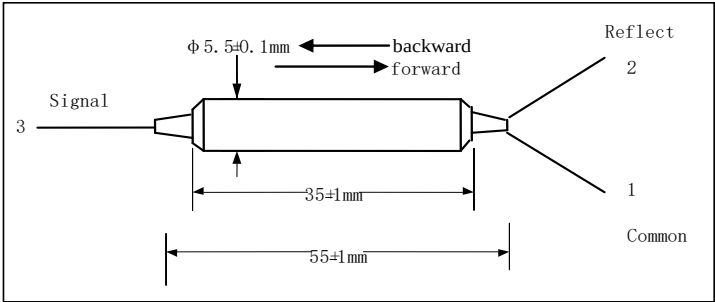
* Above specifications are for devices without the connectors.

* For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, and ER will be 2dB lower.

*The PM fiber and the connector key are aligned to the slow axis. And for signal channel, fast axis is blocked.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMIWD-①①①①-②-③-④-⑤⑤-⑥⑥⑥-⑦⑦⑦-⑧-⑨⑨-⑩⑩

①①①①: Wavelength

0697 - 1064nm Pass/ 974nm Reflect

SSSS - Specify

②: Pump Type

F - Forward Pump

B - Backward Pump

③: Stage

S - Single Stage

④: Axis Alignment

F - Fast Axis Blocked

⑤⑤: Handling Power

0.5 - 500mW

S - Specify

⑥⑥⑥: Connector Type on Port 1, 2 & 3

1A - FC/UPC

2A - FC/APC

N - None

S - Specify

⑦⑦⑦: Fiber Jacket on Port 1, 2 & 3

B - 250um Bare Fiber

C - 900um Loose Tube(Red)

D - 900um Loose Tube(Blue)

S - Specify

⑧: Fiber Length

0.8 - 0.8m

S - Specify

⑨⑨: Fiber Type

03A - PM980 for 1/3,

Hi 1060 for 2

⑩⑩: Package

01 - Ø5.5x35mm

High Power Polarization Maintaining Isolator and WDM Hybrid 10xxnm 10W

Spec Review No.: SR2311069A

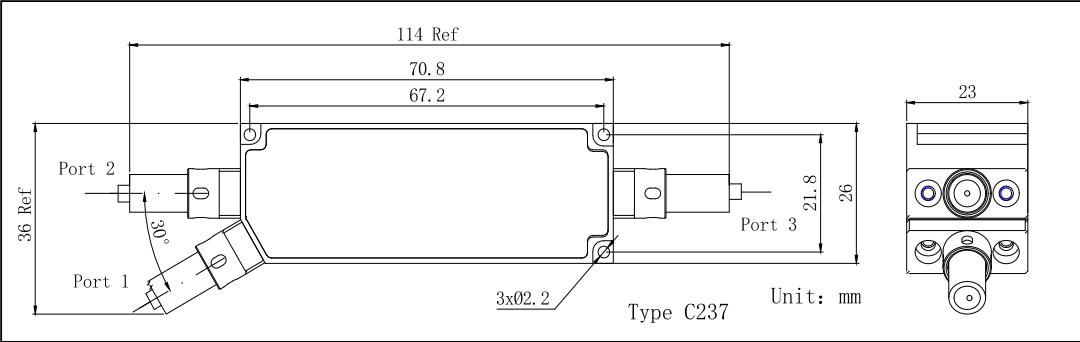
Date:Nov 21, 2023

Specifications

Parameters		Unit	Values
Pass Band	Signal Centre Wavelength (λ_c)	nm	1064±5
	Max. Insertion Loss,23℃	dB	0.8
	Min. Signal Isolation,23℃ (λ_c)	dB	28
	Min. Extinction Ratio (only for F-Type)	dB	20
Reflect Band	Wavelength Range	nm	960~990
	Max. Insertion Loss	dB	0.8
Min. Return Loss		dB	50
Max. Optical Power (Pass Band)		W	10
Max. Optical Power (Reflect Band)		W	10
Max. Tensile Load		N	5
Operating Temperature		℃	-5 to +50
Storage Temperature		℃	-20 to +65

- *Above specification are for device without connector.
- *For devices with connectors, insertion loss will be 0.5dB higher, RL will be 5dB lower, ER will be 2dB lower.
- *The PM fiber and the connector key are aligned to the slow axis.
- *The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMIWDM-①①①①-②-③③-④-⑤⑤⑤-⑥⑥⑥-⑦-⑧-⑨⑨⑨

- ①①①①: Signal&Pump Wavelength
0698 - 1064nm signal/980nm pump

②: Pump Type
B - Backward Pump

③③: Handling Power
10 - 10W
S - Specify

④: Axis Alignment
F - Fast Axis Blocked
- ⑤⑤⑤ : Connector Type
N - None
S - Specify

⑥⑥⑥: Fiber Jacket
B - Bare Fiber

⑦: Fiber Length
0.8 - 0.8m
S - Specify
- ⑧: Backage Type
C237 - Type C237

⑨⑨⑨: Fiber Type
39 - Liekki YB1200 30/250 DC PM NA0.07 Fiber
45 - PLMA-GDF 10/125-M NA0.075 Fiber
61 - YDF Nufern PM 10/125 NA0.075 Fiber
65 - Nufern PM1060L 10/125 GSF NA0.085 Fiber
80 - MM 105/125-0.22 Fiber
S - Specify

Polarization Maintaining Isolator WDM Hybrid 15xxnm 300mW

Spec No.:CAT-09-028F

Date:

Specifications

Parameters		Unit	Values	
Stage			Single Stage	Dual Stage
Pass Band	Signal Wavelength Range	nm	1530~1580	
	Typ. Insertion Loss@P→C or C→P	dB	0.6	0.8
	Max. Insertion Loss@P→C or C→P	dB	0.8	1.0
	Typ. Peak Signal Isolation, at 23℃	dB	40	55
	Min. Signal Isolation, at 23℃ (1550±15 for S.Stage)	dB	30	48
	Min. Extinction Ratio (only for F-Type)	dB	23	
	Min. Extinction Ratio (only for B-Type)	dB	20	
Reflect Band	Wavelength Range	nm	960~990 or 1460-1490	
	Typ. Insertion Loss@R→C	dB	0.3(for 1480nm pump);0.4(for 980nm pump)	
	Max. Insertion Loss@R→C	dB	0.5(for 1480nm pump);0.6(for 980nm pump)	
Min. Return Loss		dB	50	
Max. Optical Power (CW)		mW	300	
Max. Tensile Load		N	5	
Fiber Type			PM 1550nm panda fiber on Common & Pass ports, Hi 1060(for 980nm Pump) or SMF-28e fiber(for 1480nm Pump) on Reflect port	
Operating Temperature		℃	-5 to +70	
Storage Temperature		℃	-40 to +85	

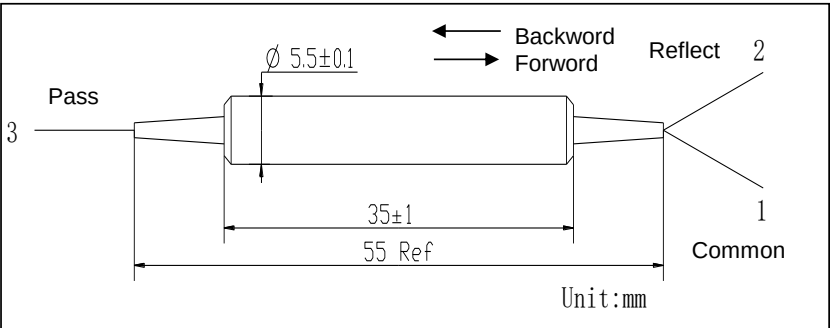
*Above specification are for device without connector

*For devices with connectors, insertion loss will be 0.3dB higher, RL will be 5dB lower, ER will be 2dB lower

*The signal path is aligned to slow axis.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMIWDM-①①①①-②-③-④-⑤⑤-⑥⑥⑥-⑦⑦⑦-⑧-⑨⑨-⑩⑩

①①①①:Signal & Pump Wavelength
5598 - 1550nm signal/980nm pump
5548 - 1550nm Signal/1480nm pump

⑤⑤: Handling Power
0.3 - 300mW
S - Specify

⑧: Fiber Length
0.8 - 0.8m
S - Specify

②: Pump Type
F - Forward Pump
B - Backward Pump

⑥⑥⑥: Connector Type on Port 1, 2 & 3
1A - FC/UPC
2A - FC/APC
3D - SC/UPC
4D - SC/APC
N - None
S - Specify

⑨⑨: Fiber Type
04A - PM 1550 for 1/3,
Hi 1060 for 2
21A - PM 1550 for 1/3,
SMF-28e for 2
09A - PM 1550

④: Axis Alignment
F - Fast Axis Blocked
B - Both Axis Working

⑦⑦⑦: Fiber Jacket on Port 1, 2 & 3
B - 250um Bare Fiber
C - 900um Loose Tube(Red)
D- 900um Loose Tube(Blue)
S - Specify

⑩⑩: Package
01 - Ø5.5x35mm

High Power Polarization Maintaining Isolator WDM Hybrid 15xxnm 10W

Spec No.: CAT-05-050D

Date:

Specifications

Parameters		Unit	Values	
Stage			Single Stage	Dual Stage
Pass Band	Signal Wavelength Range	nm	1530~1565	
	Typ. Insertion Loss@P→C or C→P	dB	0.7	0.8
	Max. Insertion Loss@P→C or C→P	dB	0.9	1.0
	Typ. Peak Signal Isolation, at 23℃	dB	40	55
	Min. Signal Isolation, at 23℃	dB	30	48
	Min. Extinction Ratio (only for F-Type)	dB	23	
	Min. Extinction Ratio (only for B-Type)	dB	20	
Reflect Band	Wavelength Range	nm	960~990 or 1460-1490	
	Typ. Insertion Loss@R→C	dB	0.5(for 1480nm pump); 0.6(for 980nm pump)	
	Max. Insertion Loss@R→C	dB	0.7(for 1480nm pump); 0.8(for 980nm pump)	
Min. Return Loss		dB	50	
Max. Optical Power (CW)		W	0.5 , 1 , 3 , 5 or Specify	
Max. Peak Power for ns Pulse		kW	10	
Max. Tensile Load		N	5	
Fiber Type			PM 1550nm panda fiber on Common & Pass ports, HI 1060(for 980nm Pump) or SMF-28e fiber(for 1480nm Pump) on Reflect port	
Operating Temperature		℃	-5 to +70	
Storage Temperature		℃	-40 to +85	

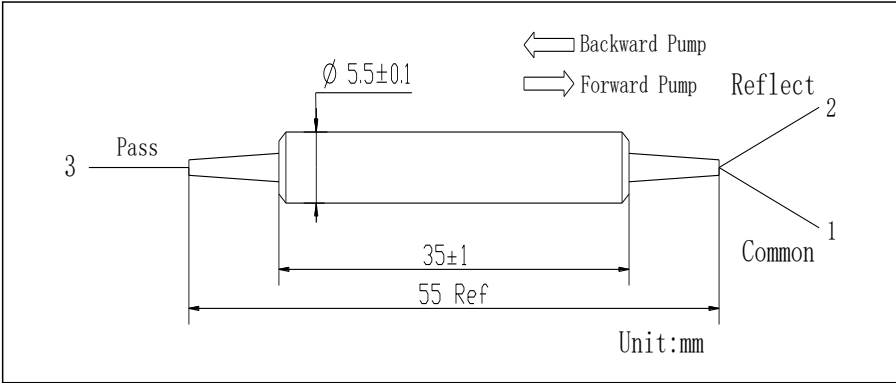
*Above specification are for device without connector

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower , ER will be 2dB lower and optical power is only 1000mW (CW) .

*The signal path is aligned to slow axis.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMIWDM-①①①①-②-③-④-⑤⑤-⑥⑥⑥⑥-⑦⑦⑦⑦-⑧-⑨⑨-⑩⑩

①①①①:Signal & Pump Wavelength
5598 - 1550nm signal/980nm pump
5548 - 1550nm Signal/1480nm pump

②: Pump Type
F - Forward Pump
B - Backward Pump

③: Stage
S - Single Stage
D - Dual Stage

④: Axis Alignment
F - Fast Axis Blocked
B - Both Axis Working

⑤⑤: Handling Power
01 - 1W
03 - 3W
SS - Specify

⑥⑥⑥: Connector Type on Port 1, 2 & 3
1A - FC/UPC
2A - FC/APC
3D - SC/UPC
4D - SC/APC
N - None
S - Specify

⑦⑦⑦: Fiber Jacket on Port 1, 2 & 3
B - 250um Bare Fiber

⑧: Fiber Length
0.8 - 0.8m
S - Specify

⑨⑨: Fiber Type
05A - PM 1550 for 1/3,
PM 980 for 2
06A - PM 1550 for 3,
PM 980 for 1&2
04A - PM 1550 for 1/3,
Hi 1060 for 2
21A - PM 1550 for 1/3,
SMF-28e for 2

⑩⑩: Package Dimensions

High Power Polarization Maintaining Isolator Hybrid with BPF 10xxnm 300mW

Spec Review No.: SR2307100A

Date: Jul. 31, 2023

Specifications

Parameters	Unit	Values
Nominal Center Wavelength	nm	1064
Max. Insertion Loss over CWL+/-1.0nm	dB	2.3
Min. Pass Bandwidth @0.5dB	nm	2
Max. Stop Bandwidth @25dB	nm	10
Min. Isolation over CWL+/-1.0nm, Output to Input, at 23°C	dB	30
Min. Extinction Ratio for B Type	dB	20
Min. Extinction Ratio for F Type	dB	22
Min. Optical Return Loss	dB	50
Max. Optical Power (Proper SOP,Forward)	--	300mW Average Power, 10KW Peak Power
Max. Tensile Load	N	5
Fiber Type	--	PM 980 Panda Fiber
Operating Temperature	°C	-5 to +50
Storage Temperature	°C	-40 to +85

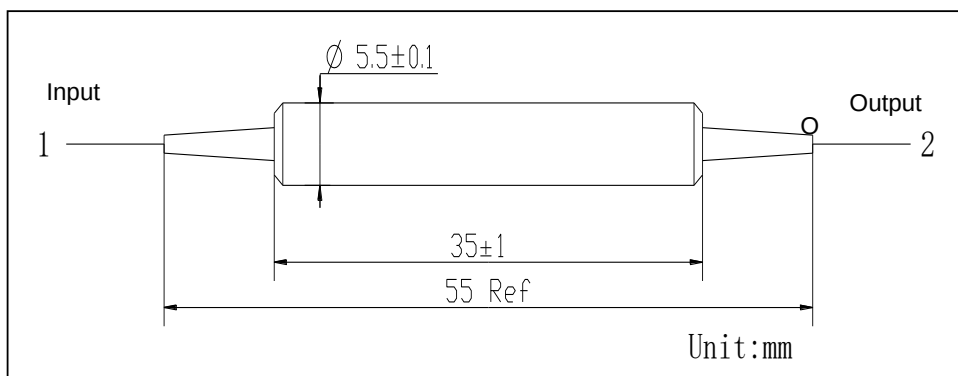
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower and ER will be 2dB lower and optical power is only 300mW.

*Optical path and connector key are aligned to slow axis. Band pass filter is on input side of the device.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMBPFI-①①①①-②②-③③-④④-⑤-⑥-⑦⑦-⑧⑧-⑨-⑩⑩-⑪⑪

①①①①: Center Wavelength

1064 - 1064nm

SSSS - Specify

②②: Pass Band Width

02 - 2nm

SS - Specify

③③: Stop Band Width

10 - 10nm

SS - Specify

④④: Handling Power

0.3 - 300mW/10KW

SS - Specify

⑤: Axis Alignment

F - Fast Axis Blocked

B - Both Axis Working

⑥: Isolator Stage Type

S - Single Stage

⑦⑦: Connector Type

1B - FC/UPC

2B - FC/APC (Step)

3D - SC/UPC

4D - SC/APC (Step)

N - None

SS - Specify

⑧⑧: Fiber Jacket for Port 1 & 2

B - Bare Fiber

C - 900um Loose Tube(Red)

D - 900um Loose Tube(Blue)

E - 900um Loose Tube(Black)

SS - Specify

⑨: Fiber Length

0.8 - 0.8 m

S - Specify

⑩⑩: Fiber Type

02A - PM 980 Fiber

⑪⑪ Package Type

01 - Ø5.5x35

High Power Polarization Maintaining Isolator Hybrid with BPF 10xxnm 10W

Spec Review No.: SR24007025A

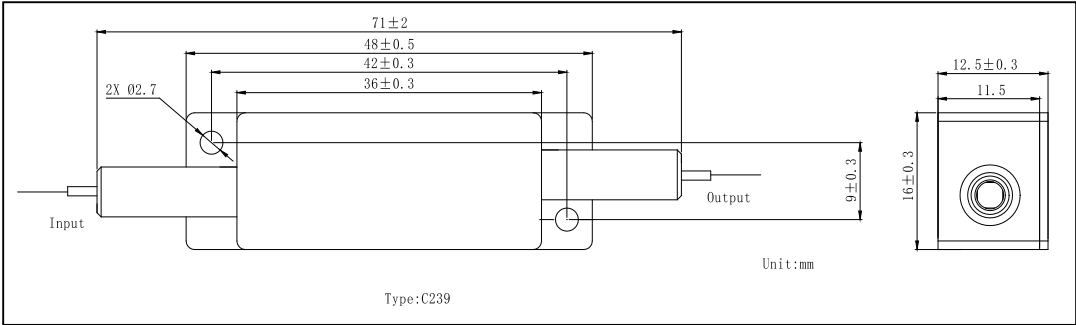
Date: Jul. 12, 2024

Specifications

Parameters	Unit	Values
Nominal Center Wavelength	nm	1030
Min. Pass Bandwidth @0.5dB	nm	2
Max. Stop Bandwidth @25dB	nm	6
Min. Isolation at λ_c ,23℃,(Port2 to Port1)	dB	26
Typ. Insertion Loss at λ_c ,23℃, (Port1 to Port2)	dB	0.7
Max. Insertion Loss at λ_c ,23℃, (Port1 to Port2)	dB	1.0
Min. Return Loss, (Port1,Port2)	dB	50/50
Min. ER at 23℃, (Fast Axis Blocked)	dB	20
Max. Optical Power (CW)	W	5 or Specify
Max. Peak Power for pulse	kW	10 @ 1 ns
Max. Tensile Load	N	5
Operating Temperature	℃	10 to +50
Storage Temperature	℃	0 to +75

- *Above parameter only for inner core.
- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower , ER will be 2dB lower and optical power is only 1W.
- *The PM fiber and connector key are aligned to the slow axis.
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMBPFI-①①①①-②-③③-④④-⑤⑤-⑥-⑦⑦-⑧⑧-⑨-⑩⑩

- | | | |
|--|---|---|
| ①①①①: Wavelength
1030 - 1030nm
S - Specify | ⑤⑤: Handling Power
05 - 5W
S - Specify | ⑨: Fiber Length
0.6 - 0.6m
S - Specify |
| ②: Package Type
C239 - Type C239 | ⑥: Axis Alignment
F - Fast Axis Blocked | ⑩⑩: Fiber Type
1 - PM 980 Fiber
45 - PLMA-GDF 10/125 -M NA0.075 Fiber
65 - Nufern PM1060L 10/125 GSF NA0.085 Fiber
83 - Nufern-PLMA-GDF-14/125-UF,NA0.07 Fiber
S - Specify |
| ③③: Pass Band Width
02 - 2nm
S - Specify | ⑦⑦: Connector Type
N - None
S - Specify | |
| ④④: Stop Band Width
06 - 6nm
S - Specify | ⑧⑧: Fiber Jacket
B - 250um Bare Fiber
C - 900um Loose Tube(Red) | |

Polarization Maintaining Isolator Hybrid with BPF 15xxnm 300mW

Spec Review No.: SR2409013A

Date: Sep. 13, 2024

Specifications

Parameters	Unit	Values	
Stage	--	Single Stage	Dual Stage
Nominal Center Wavelength	nm	1570	
Min. Pass Bandwidth @0.5dB	nm	6	
Max. Stop Bandwidth @25dB	nm	10	
Max. Insertion Loss @ 1570nm	dB	0.9	1.0
Min. Isolation , Output to Input, @1570nm ,23 °C	dB	28	48
Min. Extinction Ratio for B type	dB	20	
Min. Extinction Ratio for F type	dB	22	
Min. Optical Return Loss	dB	50	
Max. Optical Power (CW,Forward,Proper SOP)	mW	300	
Max. Tensile Load	N	5	
Fiber Type	-	PM 1550 Panda Fiber	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	

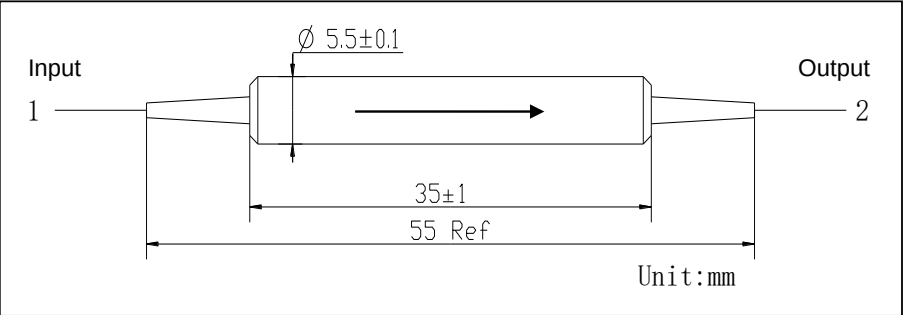
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower.

*Optical path and connector key are aligned to slow axis. Band pass filter is on output side of the device.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMBPFI-①①①①-②②-③③-④-⑤-⑥-⑦⑦-⑧⑧-⑨-⑩⑩-⑪⑪

①①①①: Center Wavelength 1570 - 1570nm SSSS - Specify	⑤: Axis Alignment F - Fast Axis Blocked B - Both Axis Working	⑧⑧: Fiber Jacket on Port 1 & 2 B - 250um Bare Fiber C - 900um Loose Tube (Red) D - 900um Loose Tube (Blue) E - 900um Loose Tube (Black) SS - Specify	⑪⑪:Package Type 01 - Ø5.5x35
②②: Pass Band Width 06 - 6nm SS - Specify	⑥: Isolator Stage Type S - Single Stage D - Dual Stage	⑨: Fiber Length 0.8 - 0.8m S - Specify	
③③: Stop Band Width 10 -10nm SS - Specify	⑦⑦: Connector Type on Port 1 & 2 1B - FC/UPC 2B - FC/APC (Step) 3D - SC/UPC 4D - SC/APC (Step) N - None SS - Specify	⑩⑩:Fiber Type 01B - PM1550 Fiber	
④:Handling Power 0.3 - 300mW S - Specify			

High Power Polarization Maintaining Isolator Hybrid with BPF 15xxnm 10W

Spec Review No.: SR2408020A

Date: Aug. 12, 2024

Specifications

Parameters	Unit	Values	
Stage	--	Single Stage	Dual Stage
Nominal Center Wavelength	nm	1585	
Min. Pass Bandwidth @0.5dB	nm	5.5	
Max. Stop Bandwidth @25dB	nm	12	
Max. Insertion Loss @ 1585±2.5nm	dB	0.9	1.0
Min. Isolation , Output to Input, @1585±2.5nm ,23 ℃	dB	30	48
Min. Extinction Ratio for B type	dB	20	
Min. Extinction Ratio for F type	dB	22	
Min. Optical Return Loss	dB	50	
Max. Optical Power (CW,Forward,Proper SOP)	mW	300mW Average Power, 1KW Peak Power	
Max. Tensile Load	N	5	
Fiber Type	-	PM 1550 Panda Fiber	
Operating Temperature	℃	-5 to +70	
Storage Temperature	℃	-40 to +85	

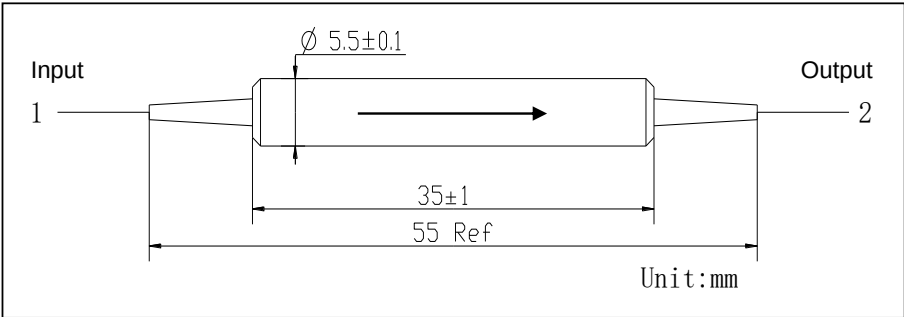
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower and optical power is only 1000mW(CW).

*Optical path and connector key are aligned to slow axis. Band pass filter is on input side of the device.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMBPFI-①①①①-②②-③③-④-⑤-⑥-⑦⑦-⑧⑧-⑨-⑩⑩-⑪⑪

①①①①: Center Wavelength 1585 - 1585nm SSSS - Specify	⑤: Axis Alignment F - Fast Axis Blocked B - Both Axis Working	⑧⑧: Fiber Jacket on Port 1 & 2 B - 250um Bare Fiber C - 900um Loose Tube (Red) D - 900um Loose Tube (Blue) E - 900um Loose Tube (Black) S - Specify	⑪⑪: Package Type 01 - Ø5.5x35
②②: Pass Band Width 5.5 - 5.5nm SS - Specify	⑥: Isolator Stage Type S - Single Stage D - Dual Stage	⑨: Fiber Length 0.8 - 0.8m S - Specify	
③③: Stop Band Width 12 - 12nm SS - Specify	⑦⑦: Connector Type on Port 1 & 2 1B - FC/UPC 2B - FC/APC (Step) 3D - SC/UPC 4D - SC/APC (Step) N - None S - Specify	⑩⑩: Fiber Type 01B - PM1550 Fiber	
④:Handling Power 0.3 - 300mW/1KW S - Specify			

High Power Polarization Maintaining Isolator Hybrid with Tap and WDM 1064nm 300mW

Spec Review No.:SR2312026A

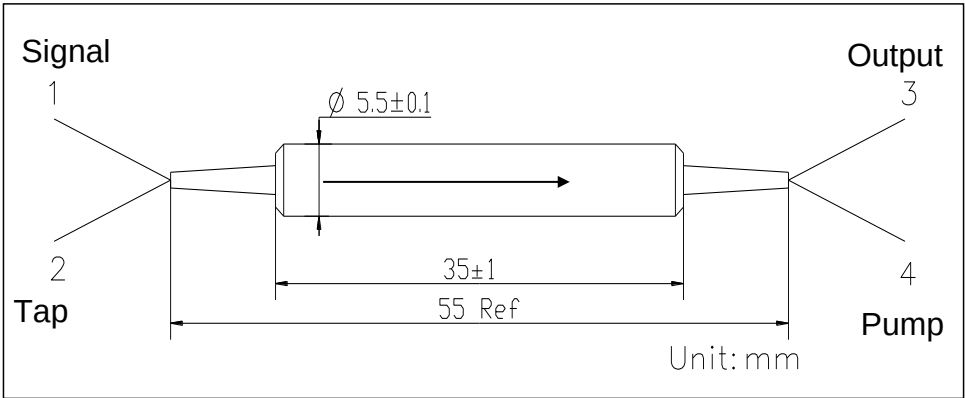
Date:December.06, 2023

Specifications

Signal Wavelength Range	nm	1060~1070
Pump Wavelength Range	nm	960~990
Max. Signal Insertion Loss@1064nm, 23℃ (Signal to Output)	dB	2.45(5%)
Max. Signal Insertion Loss@1060~1070nm, 0~50℃ (Signal to Output)	dB	2.95(5%)
Max. Pump Insertion Loss(Pump to Output)	dB	0.7
Signal Tap Ratio(Signal to Tap)	%	5+/-1
Typ. Signal Peak Isolation(Output to Signal)	dB	35
Min. Signal Isolation at 23℃(Output to Signal)	dB	30
Min. Isolation(for Signal to output @Pump Wavelength)	dB	30
Min. Isolation(for Output to Pump@Signal Wavelength)	dB	12
Min. Directivity(@980nm for Pump to Signal & Tap)	dB	50
Min. Extinction Ratio(Signal to Output)	dB	25
Max. PDL(Signal to Tap & Pump to Output)	dB	0.1
Min. Return Loss (for all Ports)	dB	50
Max. Optical Power	-	Average 1060-1070nm Power 300mW, Peak Power 3KW, Pulse Energy 30nJ.
Max. Tensile Load	N	5
Fiber Type	-	PM 980 Panda Fiber for Signal and Output Ports, Hi 1060 Fiber for Pump and Tap Port
Operating Temperature	℃	0 to +50
Storage Temperature	℃	-40 to +85

*Above specifications are for device without connector.
*For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower, ER will be 2dB lower.
*The PM fiber and the connector key are aligned to the slow axis.
*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMTIWDM-①①①①①-②-③-④④-⑤-⑥⑥-⑦⑦⑦⑦-⑧⑧⑧⑧-⑨-⑩⑩-⑪⑪

①①①①①:Signal & Pump Wavelength
0698 - 1064nm / 980nm
SSSS - Specify

②: Pump Direction
F - Forward Pump

③: Stage Type
S - Single Stage

④④: Tap Ratio
05 - 5%

⑤: Axis Alignment
F - Fast Axis Blocked

⑥:Handling Power
0.3 - 300mW

⑦⑦⑦⑦: Connector Type on Port 1, 2, 3 & 4
1A - FC/UPC
2A - FC/APC (Step)
N - None
S - Specify

⑧⑧⑧⑧: Fiber Jacket on Port 1, 2, 3 & 4
B - 250um Bare Fiber
C - 900um Loose Tube(Red)
D - 900um Loose Tube(Blue)
F - 900um Loose Tube(White)
S - Specify

⑨: Fiber Length
1 - 1.0m
S - Specify

⑩⑩: Fiber Type
06B - Hi 1060 for Pump&Tap, PM980 for Others

⑪⑪: Package Dimensions
01 - Ø5.5x35

Polarization Maintaining Isolator Hybrid with Tap and WDM 15xxnm 300mW

Spec No.: CAT-09-031F

Date:

Specifications

Parameters	Unit	Values
Stage		Single Stage Dual Stage
Signal Wavelength Range	nm	1530~1565
Pump Wavelength Range	nm	960~990 or 1460~1490
Max. Signal Insertion Loss (Input to Output)	dB	1.1(for 1%), 1.2(for 2%),1.3(for 5%), 1.2(for 1%), 1.3(for 2%),1.4(for 5%), 1.6(for 10%), 1.5(for 10%), 4.2(for 50%) 4.3(for 50%)
Max. Pump Insertion Loss	dB	0.5(for 1480nm pump);0.6(for 980nm pump)
Signal Tap Ratio(Input to Tap)	%	1+/-0.2, 2+/-0.4, 5+/-1, 10+/-2, 50
Typ. Signal Peak Isolation (Output to Input)	dB	40 55
Min. Signal Isolation at 23℃; all polarization states	dB	30 48
Min. Directivity (Pump to Tap)	dB	50
Min.Extinction Ratio (Input to Output, only for F-type)	dB	23
Min.Extinction Ratio (Input to Output, only for B-type)	dB	20
Min. Return Loss (for all ports)	dB	50
Max. Optical Power CW	mW	500
Max. Tensile Load	N	5
Fiber Type		PM 1550 Panda Fiber for Input and Output Ports, SMF-28e Fiber for Tap Port, HI 1060(980nm Pump) or SMF-28e(for 1480nm Pump) Fiber for Pump Port
Operating Temperature	℃	0 to +70
Storage Temperature	℃	-40 to +85

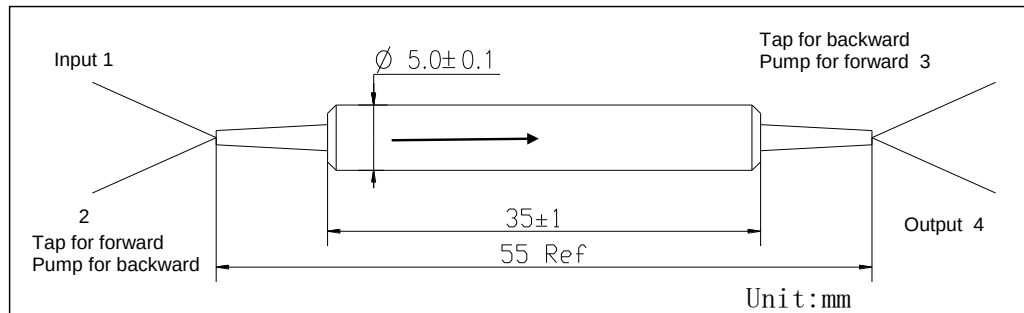
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower,ER will be 2dB lower.

*The PM fiber and the connector key are aligned to the slow axis.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMTIWDWM-①①①①-②③-④④⑤⑥-⑦⑦⑦⑦-⑧⑧⑧⑧-⑨⑩⑪⑪⑪

①①①①: Signal & Pump Wavelength

5598 - 1550nm/980nm

5548 - 1550nm/1480nm

⑤: Axis Alignment

F - Fast Axis Blocked

B - Both Axis Working

⑨: Fiber Length

0.8 - 0.8m

S - Specify

②: Pump Direction

F - Forward Pump

B - Backward Pump (only for Fast Axis Blocked)

⑥: Handling Power

0.5 - 500mW

⑩⑪: Fiber Type

01A - PM 980 for Pump, PM1550 for Others

02A- PM 980 for Pump&Input, PM1550 for Others

03A- Hi 1060 for Pump, PM1550 for Others

04A- Hi 1060 for Pump, SMF-28e for Tap, PM1550 for Others

10A- Hi1060 for Pump, PM980 For Common, PM1550 for Others

③: Stage

S - Single Stage

D - Dual Stage

⑦⑦⑦⑦: Connector Type on Port 1, 2, 3 & 4

1A - FC/UPC

2A - FC/APC (Step)

3D - SC/UPC

4D - SC/APC

N - None

S - Specify

④④: Tap Ratio

01 - 1%

02 - 2%

05 - 5%

10 - 10%

50 - 50%

SS - Specify

⑧⑧⑧⑧: Fiber Jacket on Port 1, 2, 3 & 4

B - 250um Bare Fiber

C - 900um Loose Tube(Red)

D - 900um Loose Tube(Blue)

F - 900um Loose Tube(White)

S - Specify

⑪⑪: Package

01 - Ø5.5x35mm

05 - Ø5.0x35mm

High Power Polarization Maintaining Isolator Hybrid with Tap and WDM 1550nm 10W

Spec Review No.:SR2301703B

Date: November.13, 2023

Specifications

Parameters	Unit	Values
Stage		Single StageDual Stage
Signal Wavelength Range	nm	1530~1565
Pump Wavelength Range	nm	960~990 or 1460~1490
Max. Signal Insertion Loss (Input to Output)	dB	1.1(for 1%), 1.2(for 2%),1.3(for 5%), 1.5(for 10%), 4.2(for 50%)1.2(for 1%), 1.3(for 2%),1.4(for 5%), 1.6(for 10%), 4.3(for 50%)
Max. Pump Insertion Loss	dB	0.5(for 1480nm pump);0.6(for 980nm pump)
Signal Tap Ratio(Input to Tap)	%	1+/-0.2, 2+/-0.4, 5+/-1, 10+/-2, 50
Typ. Signal Peak Isolation (Output to Input)	dB	4055
Min. Signal Isolation at 23℃; all polarization states	dB	3048
Min. Directivity (Pump to Tap)	dB	50
Min.Extinction Ratio (Input to Output, only for F-type)	dB	23
Min.Extinction Ratio (Input to Output, only for B-type)	dB	20
Min. Return Loss (for all ports)	dB	50
Max. Optical Power CW	mW	500
Max. Tensile Load	N	5
Fiber Type	-	PM 1550 Panda Fiber for Input and Output Ports, SMF-28e Fiber for Tap Port, HI 1060(980nm Pump) or SMF-28e(for 1480nm Pump) Fiber for Pump Port
Operating Temperature	℃	0 to +70
Storage Temperature	℃	-40 to +85

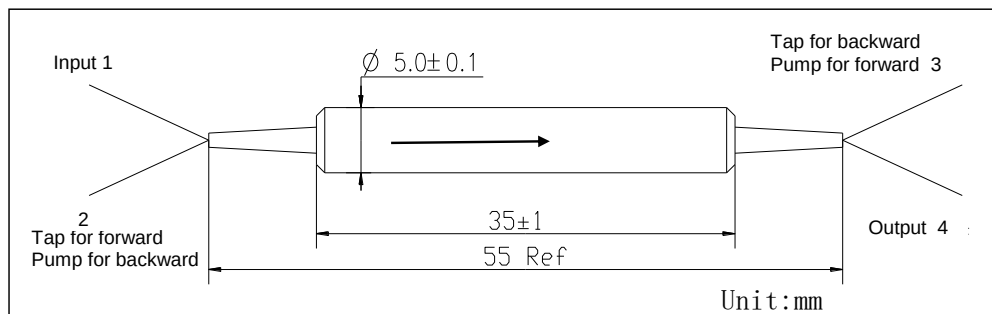
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower,ER will be 2dB lower.

*The PM fiber and the connector key are aligned to the slow axis.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMTIWDM-①①①①-②-③-④④-⑤-⑥⑥-⑦⑦⑦⑦-⑧⑧⑧⑧-⑨-⑩⑩-⑪⑪

①①①①: Signal & Pump Wavelength

5598 - 1550nm/980nm

5548 - 1550nm/1480nm

②: Pump Direction

F - Forward Pump

B - Backward Pump (only for Fast Axis Blocked)

③: Stage

S - Single Stage

D - Dual Stage

④④: Tap Ratio

01 - 1%

02 - 2%

05 - 5%

10 - 10%

50 - 50%

SS - Specify

⑤: Axis Alignment

F - Fast Axis Blocked

B - Both Axis Working

⑥⑥: Handling Power

0.5 - 0.5W

SS - Specify

⑦⑦⑦⑦: Connector Type on Port 1, 2 3 &4

1B - FC/UPC

2B - FC/APC(Step)

8B - LC/APC

N - None

S - Specify

⑧⑧⑧⑧: Fiber Jacket on Port 1, 2 3 &4

B - 250um Fiber

C - 900um Loose Tube(Red)

S - Specify

⑨: Fiber Length

0.5 - 0.5m

S - Specify

⑩⑩: Fiber Type

01B - PM 980 for Pump,

PM1550 for Others

04B - HI 1060 for Pump,

SMF-28e for Tap,

PM1550 for Others

11B - SMF-28e for Pump&Tap,

PM1550 for Others

S - Specify

⑪⑪: Package Dimensions

01 - Ø5.5x35

05 - Ø5.0x35

Polarization Maintaining Isolator Hybrid with Tap and WDM 19xxnm 300mW

Spec Review No.:SR1708030B

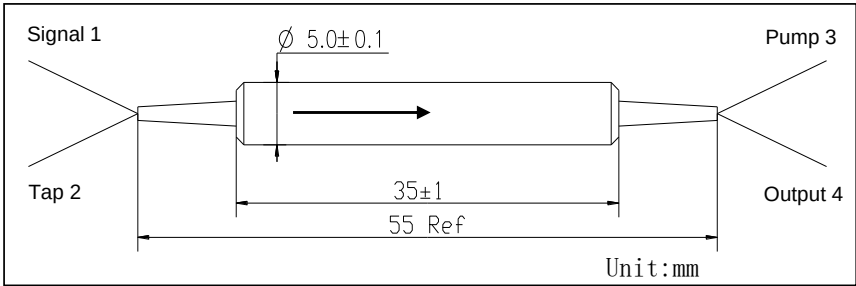
Date: Sep. 12, 2017

Specifications

Parameters	Unit	Single Stage	Dual Stage
Signal Wavelength Range	nm	1900~2000	
Pump Wavelength Range	nm	1520~1580	
Max. Signal Insertion Loss @1940nm(Signal to Output)	dB	1.96(10%)	2.26(10%)
Min. Signal Isolation @1940nm, 23℃(Output to Signal)	dB	18	32
Normal Signal Tap Ratio(Signal to Tap)	-	10±2.5%, 30±4%	
Typ. Pump Insertion Loss(Pump to Output)	dB	0.7	
Max. Pump Insertion Loss(Pump to Output)	dB	0.9	
Min. Isolation(for Signal to Output @Pump Wavelength)	dB	25	
Min. Isolation(for Output to Pump @1940nm)	dB	12	
Min. Directivity(@1940nm for Pump to Signal & Tap and @1560nm for Signal to Pump)	dB	50	
Min. ER	dB	16	
Min. Return Loss (for all ports)	dB	50	
Max. Optical Power (CW, for F Type, proper SOP)	mW	300	
Max. Tensile Load	N	5	
Fiber Type	-	PM1950	
Operating Temperature	℃	0 to +50	
Storage Temperature	℃	-40 to +85	

*Above specifications are for device without connector.
*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower.

Package Dimensions



Ordering Information

PMTIWDM-①①①①-②-③-④④-⑤-⑥⑥⑥⑥-⑦⑦⑦⑦-⑧

- ①①①①:Signal & Pump Wavelength
1956 - 1950nm Signal / 1560nm Pump
SSSS - Specify

②: Pump Direction
F - Forward Pump

③: Stage Type
S - Single Stage
D - Dual Stage

④④: Tap Ratio
10 - 10%
30 - 30%
- ⑤: Axis Alignment
F - Fast Axis Blocked
B - Both Axis Working

⑥⑥⑥⑥: Connector Type on port 1,2,3&4
1 - FC/UPC
2 - FC/APC
3 - SC/UPC
4 - SC/APC
N - None
S - Specify
- ⑦⑦⑦⑦: Fiber Jacket on port 1,2,3&4
B - 250um bare fiber
L - 900um loose tube
S - Specify

⑧: Fiber Length
1 - 1.0 m
S - Specify

Polarization Beam Combiner/Splitter 10xxnm 300mW

Spec No.: CAT-09-007D

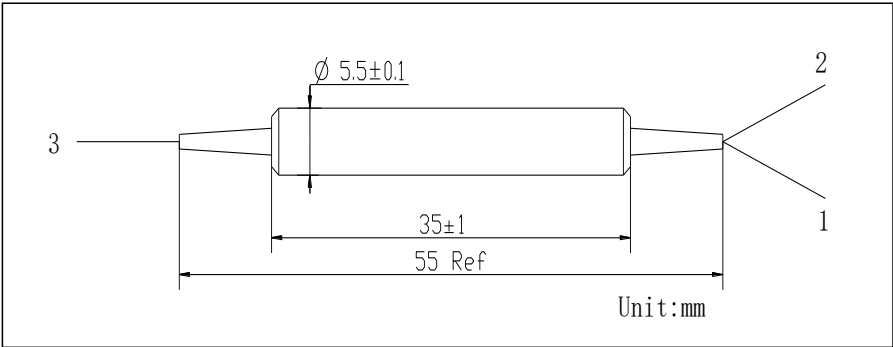
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Specifications

Parameter	Unit	Values	
Grade	-	Grade P	Grade A
Center Wavelength	nm	1064	
Operating Wavelength Range	nm	±20	
Typ. Insertion Loss	dB	0.6	0.7
Max. Insertion Loss	dB	0.8	0.9
Min. Return Loss	dB	50	
Min. Extinction Ratio (for Splitter only)	dB	22	20
Min.PDL 23°C (only for HI1060 Fiber on all ports)	dB	20	
Min. Directivity	dB	50	
Max. Optical Power (CW)	mW	300	
Max. Tensile Load	N	5	
Fiber Type	-	PM 980 Panda Fiber on Port 1 and 2	
Operating Temperature	°C	-5 to + 70	
Storage Temperature	°C	-40 to +85	

- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower and ER will be 2dB lower.
- *The PM fiber and the connector key are aligned to the slow axis.
- *The material must be RoHS compliant.

Package Dimensions



Ordering Information

PBC-①①①①-②-③-④④④-⑤⑤⑤-⑥-⑦-⑧-⑨

PBS-①①①①-②-③-④④④-⑤⑤⑤-⑥-⑦-⑧-⑨

- ①①①①: Wavelength
1064 - 1064nm
S - Specify

②: Grade
P - Premium
A - A Grade

③: Port
1 - 1x2
- ④④④: Connector Type on Port 1, 2 &3
1A - FC/UPC
2A - FC/APC
3D - SC/UPC
4D - SC/APC

⑤⑤⑤: Fiber Jacket on Port 1, 2 &3
B - Bare Fiber
C - 900um Red Loose Tube
F - 900um White Loose Tube
S - Specify
- ⑥: Fiber Type
03A - Port 1, 2&3: PM980
11A - Port 1&2: PM980, Port 3: HI 1060 Fiber
S - Specify

⑦: Axis Alignment on Port 3
1 - HI 1060 Fiber
2 - PM Panda Fiber, Slow Axis align 45°to Port 1
3 - PM Panda Fiber, Slow Axis align to Port 1
4 - All ports are HI1060
5 - PM Fiber, Fast Axis Align to Port 1
6 - PM Fiber, Slow Axis Align to Port 1 and Fast Axis Align to Port 2
- ⑧: Fiber Length
0.8 - 0.8m
S - Specify

⑨: Package Type
01 - Ø5.5×35

High Power Polarization Beam Combiner/Splitter 10xxnm 10W

Spec No.: CAT-05-052C

Date:

Specifications

Parameter	Unit	Values	
Grade	-	Grade P	Grade A
Center Wavelength	nm	1064	
Operating Wavelength Range	nm	±20	
Typ. Insertion Loss	dB	0.8	0.9
Max. Insertion Loss	dB	1	1.1
Min. Return Loss	dB	50	
Min. Extinction Ratio (for Splitter only)	dB	22	20
Min.PDL 23°C (only for HI1060 Fiber on all ports)	dB	20	
Min. Directivity	dB	50	
Max. Optical Power (CW)	W	0.5, 1, 1.5, 2 or Specify	
Max. Peak Power for ns Pulse	kW	10	
Max. Tensile Load	N	5	
Operating Temperature	°C	-5 to + 70	
Storage Temperature	°C	-40 to +85	

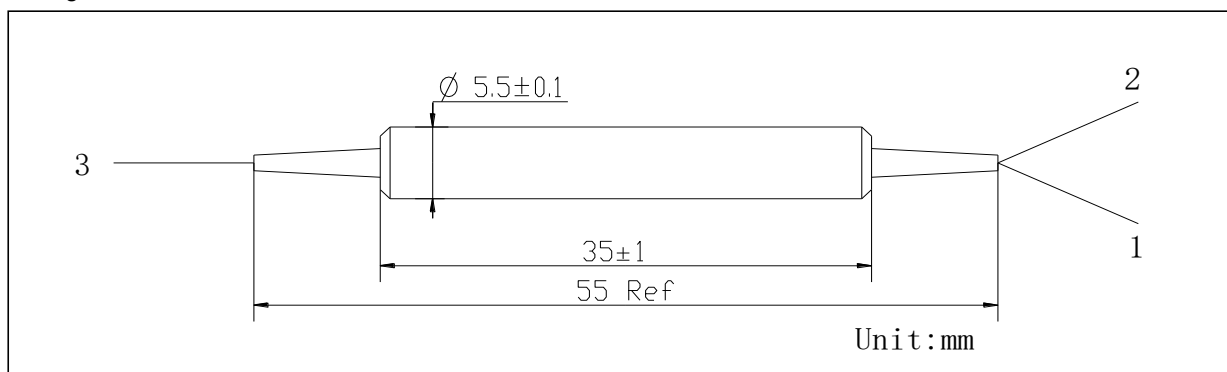
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower and ER will be 2dB lower and optical power is only 1000mW(CW).

*The PM fiber and the connector key are aligned to the slow axis.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPBC-①-②-③-④-⑤⑤⑤-⑥⑥⑥-⑦-⑧-⑨-⑩

HPBS-①-②-③-④-⑤⑤⑤-⑥⑥⑥-⑦-⑧-⑨-⑩

①: Wavelength 1064 - 1064nm S - Specify	⑤⑤⑤: Connector Type on Port 1, 2 &3 1B - FC/UPC 2B - FC/APC 3B - SC/UPC 4B - SC/APC N - None S - Specify	⑦: Fiber Type 03B - Port 1, 2&3: PM980 11B - Port 1&2: PM980, Port 3: HI 1060 Fiber S - Specify	⑨: Fiber Length 0.8 - 0.8m S - Specify
②: Grade P - Premium A - A Grade	⑥⑥⑥: Fiber Jacket on Port 1, 2 &3 B - Bare Fiber C - 900um Red Loose Tube E - 900um Black Loose Tube F - 900um White Loose Tube SS - Specify	⑧: Axis Alignment on Port 3 1 - HI 1060 Fiber 2 - PM Panda Fiber, Slow Axis align 45°to Port 1 3 - PM Panda Fiber, Slow Axis align to Port 1 4 - All ports are HI1060 5 - PM Fiber, Fast Axis Align to Port 1 6 - PM Fiber, Slow Axis Align to Port 1 and Fast Axis Align to Port 2	⑩: Package Type 01 - Ø5.5×35

Polarization Beam Combiner/Splitter 15xxnm 300mW

Spec No.: CAT-09-009D

Date:

Specifications

Parameter	Unit	Values	
Grade		Grade P	Grade A
Center Wavelength	nm	1310,1480 or 1550	
Operating Wavelength Range	nm	±40	
Typ. Insertion Loss	dB	0.4	0.5
Max. Insertion Loss	dB	0.6	0.7
Min. Return Loss	dB	50	
Min. Extinction Ratio (for Splitter only)	dB	22	20
Min.PDL 23°C (only for SMF-28e Fiber on All Ports)	dB	20	
Min. Directivity	dB	50	
Max. Optical Power (CW)	mW	500	
Max. Tensile Load	N	5	
Fiber Type		PM Panda Fiber on Port 1 & 2 or Specify	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	

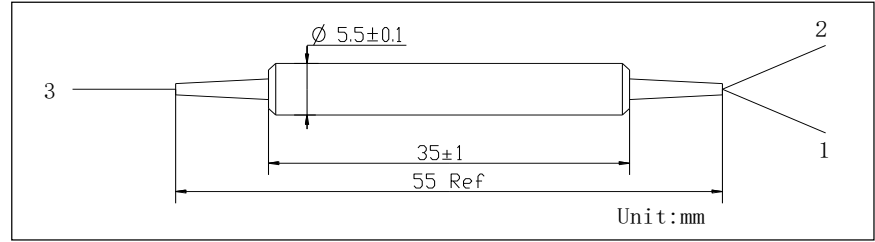
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower.

*The PM fiber and the connector key are aligned to the slow axis.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PBC-①-②-③-④④④-⑤⑤⑤-⑥-⑦-⑧-⑨

PBS-①-②-③-④④④-⑤⑤⑤-⑥-⑦-⑧-⑨

①: Wavelength	④④④: Connector Type on Port 1, 2 &3	⑦: Axis Alignment on Port 3
1310 - 1310nm	1A - FC/UPC	1 - SM Fiber, Align to Port 1 &2 Slow Axis
1480 - 1480nm	2A - FC/APC	2 - PM Fiber, Slow Axis Align 45°to Port 1
1550 - 1550nm	3D - SC/UPC	3 - PM Fiber, Slow Axis Align to Port 1
S - Specify	4D - SC/APC	4 - All Ports are SM Fiber
	N - None	5 - PM Fiber, Fast Axis Align to Port 1
②: Grade	S - Specify	6 - PM Fiber, Slow Axis Align to Slow Axis of Port 1 and Fast Axis Align to Fast Axis of Port 2
P - Premium		7 - PM Fiber, Align to SM Fiber Port 1
A - A Grade	⑤⑤⑤: Fiber Jacket on Port 1, 2 &3	8 - PM Fiber, Align 45° to SM Fiber Port 1
	B - Bare Fiber	9 - PM Fiber, Align 45° to Port 1, Port 2 Align to Fast Axis
③: Port	C - 900um Red Loose Tube	10 - SM Fiber, Align to Port 1&2 Fast Axis
1 - 1x2	F - 900um White Loose Tube	
	S - Specify	
	⑥: Fiber Type	⑧: Fiber Length
	05B - Port 1, 2&3: PM1300	0.8 - 0.8m
	07B - Port 1, 2&3: PM1550	S - Specify
	13B - Port 1&2: PM1300, Port 3: SMF-28e	⑨: Package Type
	15B - Port 1&2: PM1550, Port 3: SMF-28e	01 - Ø5.5×35
	19 - Port 1, 2&3: SMF-28e	
	S - Specify	

High Power Polarization Beam Combiner/Splitter 15xxnm 10W

Spec No.: CAT-05-053C

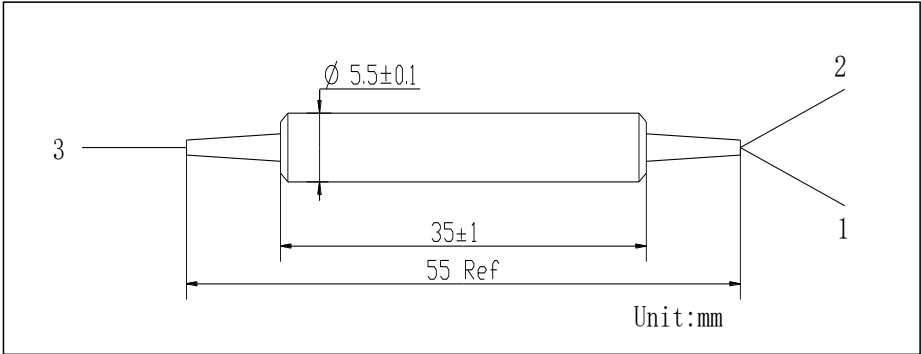
Date:

Specifications

Parameter	Unit	Values	
Grade	-	Grade P	Grade A
Center Wavelength	nm	1310,1480 or 1550	
Operating Wavelength Range	nm	±40	
Typ. Insertion loss	dB	0.6	0.7
Max. Insertion loss	dB	0.8	0.9
Min. Return Loss	dB	50	
Min. Extinction Ratio (for Splitter only)	dB	22	20
Min. PDL 23°C (only for SMF-28e Fiber on all ports)	dB	20	
Min. Directivity	dB	50	
Max. Optical Power (CW)	W	1, 3, 5 or Specify	
Max. Peak Power for ns Pulse	kW	10	
Max. Tensile Load	N	5	
Fiber Type	-	PM Panda Fiber on Port 1 & 2 or Specify	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	

- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower and optical power is only 1000mW(CW).
- *The PM fiber and the connector key are aligned to the slow axis.
- *The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPBC-①①①①-②-③-④④-⑤⑤⑤-⑥⑥⑥-⑦-⑧-⑨-⑩

HPBS-①①①①-②-③-④④-⑤⑤⑤-⑥⑥⑥-⑦-⑧-⑨-⑩

- | | | | |
|--------------------|-------------------------------------|---|-----------------|
| ①①①①: Wavelength | ⑤⑤⑤: Connector Type on Port 1, 2 &3 | ⑦: Fiber Type | ⑨: Fiber Length |
| 1310 - 1310nm | 1B - FC/UPC | 05B - Port 1, 2&3: PM1300 | 0.8 - 0.8m |
| 1480 - 1480nm | 2B - FC/APC | 07B - Port 1, 2&3: PM1550 | S - Specify |
| 1550 - 1550nm | 3D - SC/UPC | 13B - Port 1&2: PM1300, Port 3: SMF-28e | |
| S - Specify | 4D - SC/APC | 15B - Port 1&2: PM1550, Port 3: SMF-28e | ⑩: Package Type |
| | N - None | 19 - Port 1, 2&3: SMF-28e | 01 - Ø5.5×35 |
| ②: Grade | S - Specify | S - Specify | S - Specify |
| P - Premium | | | |
| A - A Grade | ⑥⑥⑥: Fiber Jacket on Port 1, 2 &3 | ⑧: Axis Alignment on Port 3 | |
| | B - Bare Fiber | 1 - SM Fiber, Align to Port 1 &2 Slow Axis | |
| ③: Port | C - 900um Red Loose Tube | 2 - PM Fiber, Slow Axis Align 45° to Port 1 | |
| 1 - 1x2 | F - 900um White Loose Tube | 3 - PM Fiber, Slow Axis Align to Port 1 | |
| | S - Specify | 4 - All Ports are SM Fiber | |
| ④④: Handling Power | | S - Specify | |
| 01 - 01W | | | |
| SS - Specify | | | |

Polarization Beam Combiner/Splitter 19xxnm 300mW

Spec No.: CAT-10-014D

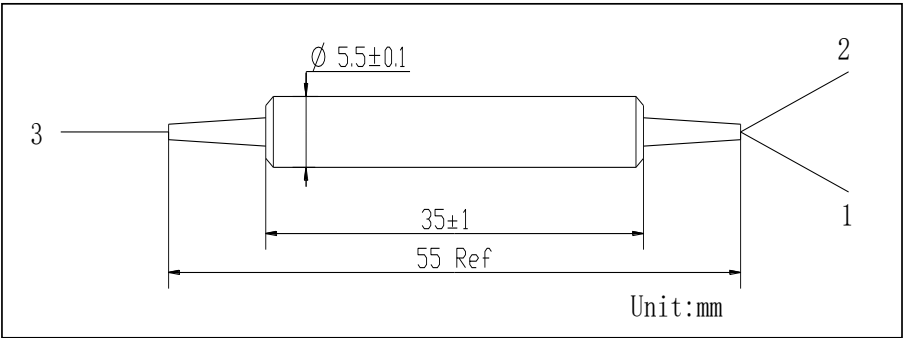
Date:

Specifications

Parameter	Unit	Values	
Grade	-	Grade P	
Center Wavelength	nm	2000	
Operating Wavelength Range	nm	±50	
Typ. Insertion Loss(Excess Loss)	dB	0.8	1.0
Max. Insertion Loss(Excess Loss)	dB	1.0	1.3
Min. Return Loss	dB	50	
Min. Extinction Ratio (for Splitter only)	dB	20	
Min. Directivity	dB	50	
Max. Optical Power (CW)	mW	500	
Max. Tensile Load	N	5	
Fiber Type	-	PM 1550 Panda Fiber on Port 1 and 2	PM 1950 Panda Fiber on Port 1 and 2
Operating Temperature	℃	-5 to + 70	
Storage Temperature	℃	-40 to +85	

- * Above specifications are for device without connector.
- * For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower.
- * The PM fiber and the connector key are aligned to the slow axis.
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

PBC/PBS-①-②-③-④-⑤⑤⑤-⑥⑥⑥-⑦-⑧-⑨-⑩

- | | | | |
|---|--|--|---|
| ①: Wavelength
20 - 2000nm
S - Specify | ⑤⑤⑤: Connector Type on Port 1, 2 &3
1A - FC/UPC
2A - FC/APC
3D - SC/UPC
4D - SC/APC
N - None
S - Specify | ⑦: Fiber Type on Port 1, 2&3
08 - Port 1, 2&3: PM1950
16 - Port 1&2: PM1950, Port 3: SM1950
20 - Port 1, 2&3: SM1950
46 - Port 1, 2&3: PM-GDF-10/130-2000
S - Specify | ⑨: Fiber Length
1 - 1.0m
S - Specify |
| ②: Grade
P - Premium | ⑥⑥⑥: Fiber Jacket on Port 1, 2 &3
B - Bare Fiber
C - 900um Red Loose Tube
F - 900um White Loose Tube
S - Specify | ⑧: Axis Alignment on Port 3
1 - SM Fiber, Align to Port 1 &2 Slow Axis
2 - PM Fiber, Slow Axis Align 45° to Port 1
3 - PM Fiber, Slow Axis Align to Port 1
4 - All Ports are SM Fiber
S - Specify | ⑩: Package Type
01 - Ø5.5×35
08 - 80×12×10
S - Specify |
| ③: Port
1 - 1x2 | | | |
| ④: Handling Power
0.5 - 0.5W | | | |

High Power Polarization Beam Combiner/Splitter 19xxnm 10W

Spec No.: CAT-05-055C

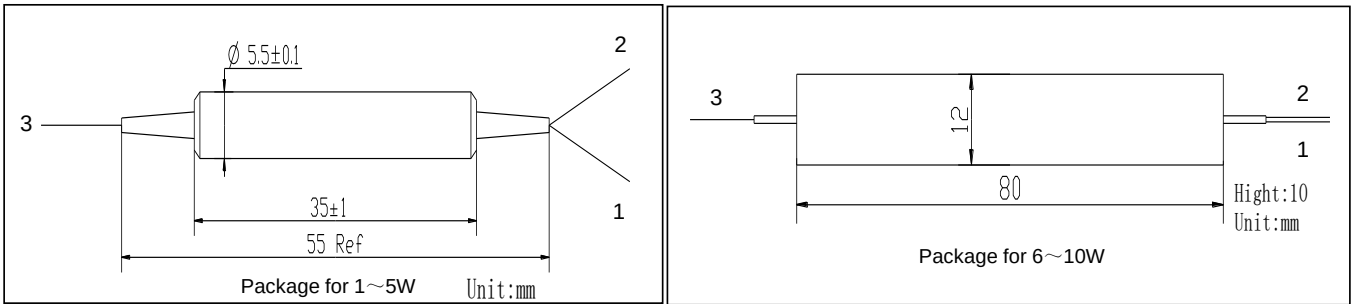
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Specifications

Parameter	Unit	Values	
Grade	-	Grade P	
Center Wavelength	nm	2000	
Operating Wavelength Range	nm	±50	
Typ. Insertion Loss(Excess Loss)	dB	0.8	1.0
Max. Insertion Loss(Excess Loss)	dB	1.0	1.3
Min. Return Loss	dB	50	
Min. Extinction Ratio (for Splitter only)	dB	20	
Min. Directivity	dB	50	
Max. Optical Power (CW)	W	1, 3, 5 or Specify	
Max. Tensile Load	N	5	
Fiber Type	-	PM 1550 Panda Fiber on Port 1 and 2	PM 1950 Panda Fiber on Port 1 and 2
Operating Temperature	℃	-5 to + 70	
Storage Temperature	℃	-40 to +85	

- *Above specifications are for device without connector.
- *For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, ER will be 2dB lower, optical power is only 1W.
- *The PM fiber and the connector key are aligned to the slow axis.
- *The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPBC-①①①①-②-③-④④-⑤⑤⑤-⑥⑥⑥-⑦-⑧-⑨-⑩

HPBS-①①①①-②-③-④④-⑤⑤⑤-⑥⑥⑥-⑦-⑧-⑨-⑩

- | | | | |
|--|---|--|---|
| ①①①①: Wavelength
2000 - 2000nm
S - Specify | ⑤⑤⑤: Connector Type on Port 1, 2 &3
1A - FC/UPC
2A - FC/APC
3D - SC/UPC
④④: Handling Power
01 - 1W
SS - Specify | ⑦: Fiber Type on Port 1, 2&3
08 - Port 1, 2&3: PM1950
16 - Port 1&2: PM1950, Port 3: SM1950
20 - Port 1, 2&3: SM1950
46 - Port 1, 2&3: PM-GDF-10/130-2000
S - Specify | ⑨: Fiber Length
1 - 1.0m
S - Specify |
| ②: Grade
P - Premium | ⑥⑥⑥: Fiber Jacket on Port 1, 2 &3
B - Bare Fiber
C - 900um Red Loose Tube
F - 900um White Loose Tube
S - Specify | ⑧: Axis Alignment on Port 3
1 - SM Fiber, Align to Port 1 &2 Slow Axis
2 - PM Fiber, Slow Axis Align 45° to Port 1
3 - PM Fiber, Slow Axis Align to Port 1
4 - All Ports are SM Fiber
S - Specify | ⑩: Package Type
01 - Ø5.5×35
08 - 80×12×10
S - Specify |

Polarization Maintaining Mini Type Manual Variable Optical Attenuator

10xx~19xxnm 300mW~1W

Spec No.: CAT-09-045D

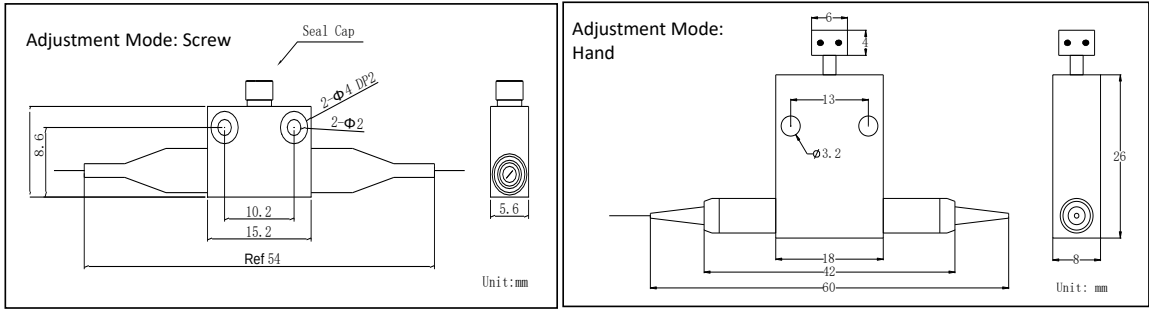
Date:

Specifications

Parameters	Unit	Values									
Center Wavelength	nm	532	630	780	850	980	1064	1310	1550	2000	
Operating Wavelength Range	nm	±30									
Max. Excess Loss	dB	2	1.6	0.8	0.7	0.6	0.6	0.6	0.6	0.8	
Min. ER at 23℃, Minimum Attenuation	dB	18	18	18	18	20	20	20	20	18	
Max. Attenuation Range	dB	50 (By Screw), 60 (By Hand)									
Resolution Below 10dB Attenuation Range	dB	0.1									
Min. Return Loss	dB	50									
Fiber Type	-	PM Panda Fiber									
Max. Tensile Load	N	5									
Max. Optical Power(CW)	mW	100	100	200	200	300	300	500	500	500	
Operating Temperature	℃	0 to 70 (No Condensing)									
Storage Temperature	℃	-40 to +85 (No Condensing)									

- * Above specifications are for device without connector.
- * For devices with connectors, IL will be 0.3dB higher (780&850nm: 0.5dB higher; 532&630nm: 1.5dB higher), RL will be 5dB lower, and ER is 2dB lower .
- * The PM fiber and the connector key are aligned to the slow axis.
- * The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMVOA-①①-②②-③③-④④-⑤⑤-⑥⑥

- | | | |
|---------------------|------------------------------|--------------------|
| ①①: Wavelength | ③③: Connector Type | ⑤⑤: Fiber Type |
| 532 - 532nm | 1A- FC/UPC | 1C - PM1950 Fiber |
| 63 - 630nm | 2A - FC/APC | 2A - PM1550 Fiber |
| 78 - 780nm | 3D - SC/UPC | 3A - PM1310 Fiber |
| 85 - 850nm | 4D - SC/APC | 4A - PM980 Fiber |
| 98 - 980nm | N - None | 5A - PM850 Fiber |
| 06 - 1064nm | SS - Specify | 6C - PM780 Fiber |
| 31 - 1310nm | | 7C - PM630 Fiber |
| 55 - 1550nm | ④④: Fiber Jacket | 8C - PM460 Fiber |
| 20 - 2000nm | B - Bare Fiber | 9C - PM1060L Fiber |
| SS - Specify | C - 900um Losse tube (Red) | SS - Specify |
| | D - 900um Losse tube (Blue) | |
| | E - 900um Losse tube (Black) | ⑥⑥: Fiber Length |
| ②②: Adjustment Mode | R - 3mm Cable (Blue) | 0.8 - 0.8m |
| S2 - By Screw | S - Specify | S - Specify |
| H2 - By Hand | | |

Mini Type Manual Variable Optical Attenuator 10xx~19xxnm 300mW~1W

Spec No.: CAT-10-026D

Date:

Specifications

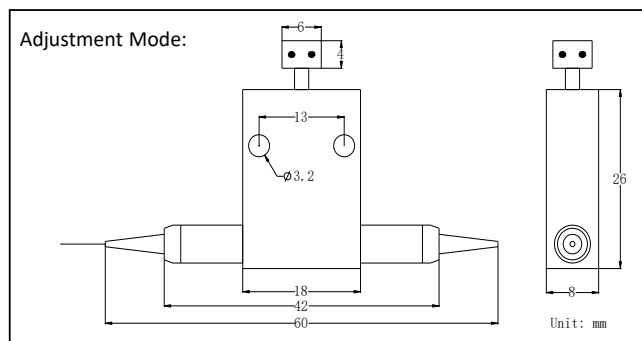
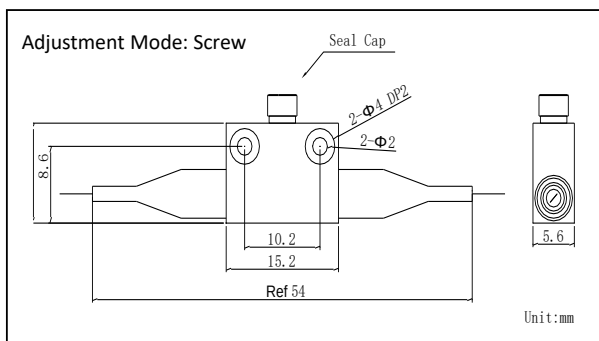
Parameters	Unit	Values							
Center Wavelength	nm	630	780	850	980	1064	1310	1550	2000
Operating Wavelength Range	nm	±30							
Max. Excess Loss	dB	1.6	0.8	0.7	0.6	0.6	0.6	0.6	0.7
Max. Attenuation Range	dB	50 (By Screw), 60 (By Hand)							
Max. PDL at 23℃, Minimum Attenuation	dB	0.1							
Resolution Below 10dB Attenuation Range	dB	0.1							
Min. Return Loss	dB	50							
Fiber Type	-	Singlemode Fiber							
Max. Tensile Load	N	5							
Max. Optical Power(CW)	mW	100	200	200	300	300	500	500	500
Operating Temperature	℃	0 to 70 (No Condensing)							
Storage Temperature	℃	-40 to +85 (No Condensing)							

* Above specifications are for device without connector.

* For devices with connectors, IL will be 0.3dB higher (<850nm: 0.5dB higher), RL will be 5dB lower.

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

MVOA-①①-②②-③③-④④-⑤⑤-⑥⑥

①①: Wavelength

63 - 630nm

78 - 780nm

85 - 850nm

98 - 980nm

06 - 1064nm

31 - 1310nm

55 - 1550nm

20 - 2000nm

SS - Specify

②②: Adjustment Mode

S2 - By Screw

H2 - By Hand

③③: Connector Type

1A- FC/UPC

2A - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify

④④: Fiber Jacket

B - Bare Fiber

E - 900um Losse tube (Black)

F - 900um Losse tube (White)

R - 3mm Cable (Blue)

S - Specify

⑤⑤: Fiber Type

W – Nufern 630-HP Fiber

B - HI 780 Fiber

H - HI 1060 Fiber

F - SMF-28e Fiber

J - Nufern 780 HP Fiber

A2 - SM1950 Fiber

SS - Specify

⑥⑥: Fiber Length

0.8 - 0.8m

S - Specify

Polarization Maintaining Faraday Mirror 10xxnm 300mW

Spec No.: CAT-09-022B

Date:

Specifications

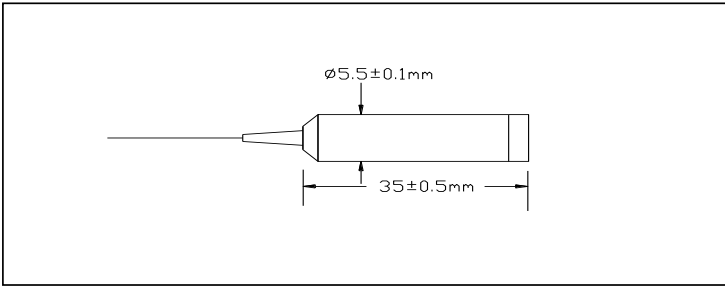
Parameters	Unit	Values
Center Wavelength	nm	1064
Operating Wavelength Range	nm	±5
Typ. Insertion Loss	dB	2.6
Max. Insertion Loss	dB	3.0
Min.Extinction Ratio	dB	20
Faraday Rotation Angle (Single Pass)	deg	45
Max. Rotation Angle Tolerance at 23℃	deg	±3
Max.Optical Power (CW)	mW	150
Max. Tensile Load	N	5
Fiber Type		PM 980 Panda Fiber
Operating Temperature	℃	-5 to +50
Storage Temperature	℃	-40 to +85

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.5dB higher, ER will be 2dB lower.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMFM- ①①-②-③-④-⑤-⑥⑥-⑦⑦

①①: Wavelength

06 - 1064nm

SS - Specify

②: Handling Power

0.15 - 150mW

S - Specify

③: Connector Type

1A - FC/UPC

2A - FC/APC

3A - SC/UPC

4A - SC/APC

N - None

④: Fiber Jacket

B - 250um Bare Fiber

C - 900um Loose Tube(Red)

D - 900um Loose Tube(Blue)

E - 900um Loose Tube(Black)

S - Specify

⑤: Fiber Length

0.8 - 0.8 m

S - Specify

⑥⑥: Fiber Type

02A - PM980 Fiber

⑦⑦: Package Type

01 - $\varnothing 5.5 \times 35$

Faraday Mirror 10xxnm 300mW

Spec No.: CAT-10-003B

Date:

Specifications

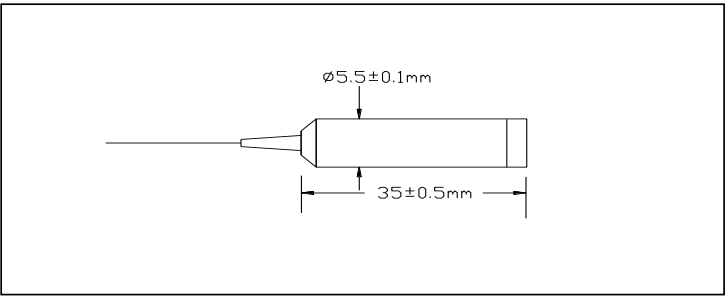
Parameters	Unit	Values
Center Wavelength (λ_c)	nm	1064
Operating Wavelength Range	nm	± 5
Max. Insertion Loss	dB	3
Faraday Rotation Angle (Single Pass)	deg	45
Max. Rotation Angle Tolerance at 23°C, λ_c	deg	± 3
Max. PDL	dB	0.05
Max. Optical Power (CW)	mW	150
Max. Tensile Load	N	5
Fiber Type	--	HI 1060 Fiber
Operating Temperature	°C	-5 to +50
Storage Temperature	°C	-40 to +85

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.5dB higher.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

FM-①①-②-③-④-⑤-⑥⑥-⑦⑦

①①: Wavelength

06 - 1064nm

SS - Specify

②: Handling Power

0.15 - 150mW

S - Specify

③: Connector Type

1A - FC/UPC

2A - FC/APC

3A - SC/UPC

4A - SC/APC

N - None

④: Fiber Jacket

B - 250um Bare Fiber

F - 900um Loose Tube(White)

G - 900um Loose Tube(Yellow)

E - 900um Loose Tube(Black)

S - Specify

⑤: Fiber Length

0.8 - 0.8 m

S - Specify

⑥⑥: Fiber Type

01 - HI-1060 Fiber

⑦⑦: Package Type

01 - $\varnothing 5.5 \times 35$

Polarization Maintaining Faraday Mirror 15xxnm 300mW

Spec No.:CAT-09-023B

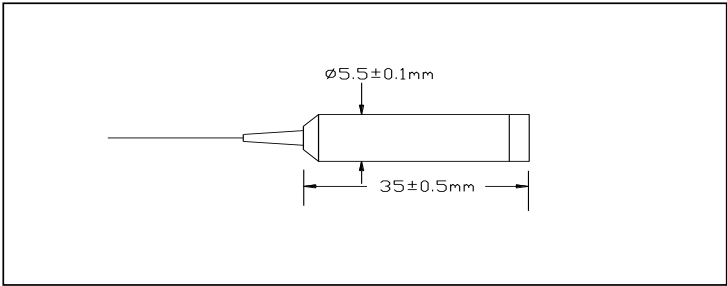
Date:

Specifications

Parameters	Unit	Values
Center Wavelength	nm	1310, 1480 or 1550
Operating Wavelength Range	nm	±30
Typ. Insertion Loss	dB	0.4
Max. Insertion Loss	dB	0.6
Faraday Rotation Angle (Single Pass)	deg	45
Max. Rotation Angle Tolerance at 23℃, CWL	deg	±1
Min. Extinction Ratio	dB	20
Max. Optical Power (CW)	mW	500
Max. Tensile Load	N	5
Fiber Type	--	PM Panda Fiber
Operating Temperature	℃	-5 to +70
Storage Temperature	℃	-40 to +85

*Above specifications are for device without connector.
*For devices with connectors, IL will be 0.3dB higher, ER will be 2dB lower.
*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMFM- ①①-②-③-④-⑤-⑥⑥-⑦⑦

①①: Wavelength

31 - 1310nm

48 - 1480nm

55 - 1550nm

S - Specify

②: Handling Power

0.5 - 500mW

S - Specify

③: Connector Type

1A - FC/UPC

2A - FC/APC

3A - SC/UPC

4A - SC/APC

N - None

④: Fiber Jacket

B - 250um Bare Fiber

C - 900um Loose Tube(Red)

D - 900um Loose Tube(Blue)

E - 900um Loose Tube(Black)

S - Specify

⑤: Fiber Length

0.8 - 0.8 m

S - Specify

⑥⑥:Fiber Type

01A - PM1550 Fiber

03A - PM1300 Fiber

⑦⑦: Package Type

01 - Ø5.5x35

Faraday Mirror 15xxnm 300mW

Spec No.: CAT-10-004B

Date:

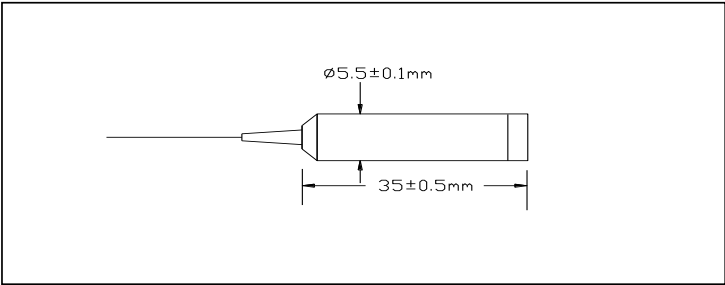
Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	1310, 1480 or 1550
Operating Wavelength Range	nm	± 15
Typ. Insertion Loss	dB	0.4
Max. Insertion Loss	dB	0.6
Faraday Rotation Angle (Single Pass)	deg	45
Max. Rotation Angle Tolerance at 23°C, λ_c	deg	± 1
Max. PDL	dB	0.05
Max. PMD	ps	0.05
Max. Optical Power (CW)	mW	500
Max. Tensile Load	N	5
Fiber Type		SMF-28e Fiber
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lower.

*The material must be RoHS compliant.



Ordering Information

FM- ①①-②-③-④-⑤-⑥⑥-⑦⑦

①①: Wavelength

31 - 1310nm

48 - 1480nm

55 - 1550nm

SS - Specify

②: Handling Power

0.5 - 500mW

S - Specify

③: Connector Type

1A - FC/UPC

2A - FC/APC

3A - SC/UPC

4A - SC/APC

N - None

④: Fiber Jacket

B - 250um Bare Fiber

F - 900um Loose Tube(White)

G - 900um Loose Tube(Yellow)

E - 900um Loose Tube(Black)

S - Specify

⑤: Fiber Length

0.8 - 0.8 m

S - Specify

⑥⑥: Fiber Type

02 - SMF-28e Fiber

⑦⑦: Package Type

01 - $\varnothing 5.5 \times 35$

Polarization Maintaining Optical Fiber Mirror 10xxnm 300mW

Spec No.:CAT-09-034B

Date:

Specifications

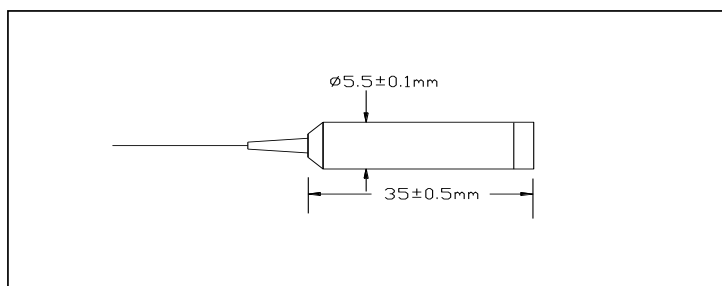
Parameters	Unit	Values
Center Wavelength	nm	1064
Operating Wavelength Range	nm	±30
Typ. Insertion Loss	dB	0.4
Max. Insertion Loss	dB	0.6
Min. Extinction Ratio	dB	22
Max.Optical Power	mW	300
Max. Tensile Load	N	5
Fiber Type	--	PM 980 Panda Fiber
Operating Temperature	℃	-5 to +70
Storage Temperature	℃	-40 to +85

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.5dB higher and ER will be 2dB lower.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMOFM- ①①-②-③-④-⑤-⑥⑥-⑦⑦

①①: Wavelength

06 - 1064nm

SS - Specify

②: Handling Power

0.3 - 300mW

S - Specify

③: Connector Type

1A - FC/UPC

2A - FC/APC

3A - SC/UPC

4A - SC/APC

N - None

④: Fiber Jacket

B - 250um Bare Fiber

C - 900um Loose Tube(Red)

D - 900um Loose Tube(Blue)

E - 900um Loose Tube(Black

S - Specify

⑤: Fiber Length

0.8 - 0.8 m

S - Specify

⑥⑥: Fiber Type

02A - PM980 Fiber

⑦⑦: Package Type

01 - Ø5.5x35

Optical Fiber Mirror 10xxnm 300mW

Spec No.: CAT-10-005B

Date:

Specifications

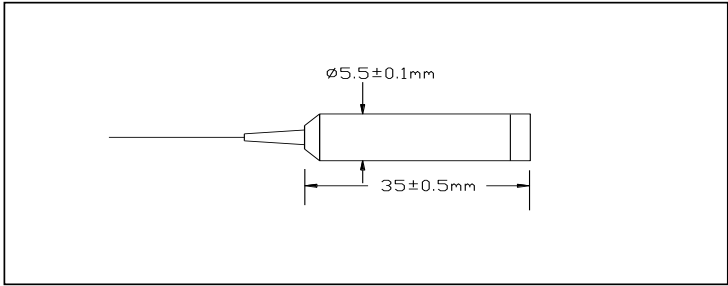
Parameters	Unit	Values
Center Wavelength	nm	1064
Operating Wavelength Range	nm	±30
Typ. Insertion Loss	dB	0.4
Max. Insertion Loss	dB	0.6
Max. PDL	dB	0.05
Max.Optical Power	mW	300
Max. Tensile Load	N	5
Fiber Type	--	HI 1060 Fiber
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.5dB higher.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

OFM- ①①-②-③-④-⑤-⑥⑥-⑦⑦

①①: Wavelength

06 - 1064nm

SS - Specify

②: Handling Power

0.3 - 300mW

S - Specify

③: Connector Type

1A - FC/UPC

2A - FC/APC

3A - SC/UPC

4A - SC/APC

N - None

④: Fiber Jacket

B - 250um Bare Fiber

F - 900um Loose Tube(White)

G - 900um Loose Tube(Yellow)

E - 900um Loose Tube(Black)

S - Specify

⑤: Fiber Length

0.8 - 0.8 m

S - Specify

⑥⑥:Fiber Type

01 - HI-1060 Fiber

⑦⑦: Package Type

01 - Ø5.5x35

Polarization Maintaining Optical Fiber Mirror 15xxnm 300mW

Spec No.: CAT-09-033B

Date:

Specifications

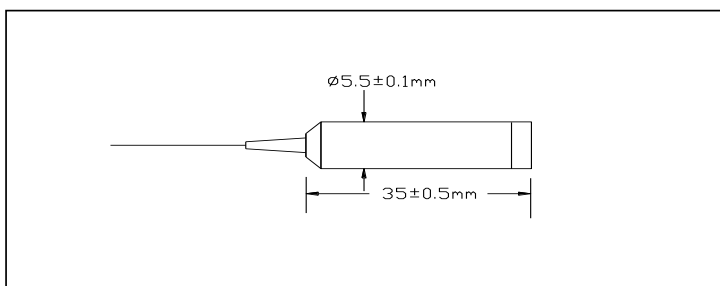
Parameters	Unit	Values
Center Wavelength	nm	1310, 1480 or 1550
Operating Wavelength Range	nm	±30
Typ. Insertion Loss	dB	0.3
Max. Insertion Loss	dB	0.5
Min. Extinction Ratio	dB	22
Max. Optical Power	mW	500
Max. Tensile Load	N	5
Fiber Type	--	PM Panda Fiber
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher and ER will be 2dB lower.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMOFM- ①①-②-③-④-⑤-⑥⑥-⑦⑦

①①: Wavelength

31 - 1310nm

48 - 1480nm

55 - 1550nm

S - Specify

②: Handling Power

0.5 - 500mW

S - Specify

③: Connector Type

1A - FC/UPC

2A - FC/APC

3A - SC/UPC

4A - SC/APC

N - None

④: Fiber Jacket

B - 250um Bare Fiber

C - 900um Loose Tube(Red)

D - 900um Loose Tube(Blue)

E - 900um Loose Tube(Black)

S - Specify

⑤: Fiber Length

0.8 - 0.8 m

S - Specify

⑥⑥: Fiber Type

01A - PM1550 Fiber

04A - PM1300 Fiber

⑦⑦: Package Type

01 - Ø5.5x35

Optical Fiber Mirror 15xxnm 300mW

Spec No.: CAT-10-006B

Date:

Specifications

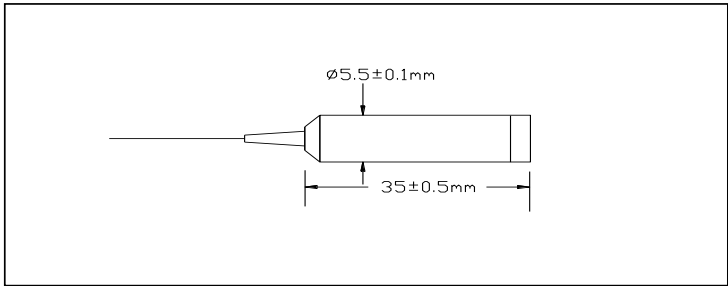
Parameters	Unit	Values
Center Wavelength	nm	1310, 1480 or 1550
Operating Wavelength Range	nm	±30
Typ. Insertion Loss	dB	0.3
Max. Insertion Loss	dB	0.5
Max. PDL	dB	0.05
Max. PMD	ps	0.05
Max.Optical Power	mW	500
Max. Tensile Load	N	5
Fiber Type	--	SMF-28e Fiber
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

O**F**M- ①①-②-③-④-⑤-⑥⑥-⑦⑦

①①: Wavelength

31 - 1310nm

48 - 1480nm

55 - 1550nm

SS - Specify

④: Fiber Jacket

B - 250um Bare Fiber

F - 900um Loose Tube(White)

G - 900um Loose Tube(Yellow)

E - 900um Loose Tube(Black)

S - Specify

⑥⑥:Fiber Type

02 - SMF-28e Fiber

⑦⑦: Package Type

01 - Ø5.5x35

②: Handling Power

0.5 - 500mW

S - Specify

⑤: Fiber Length

0.8 - 0.8 m

S - Specify

③: Connector Type

1A - FC/UPC

2A - FC/APC

3A - SC/UPC

4A - SC/APC

N - None

Polarization Maintaining Fiber Patchcord 10xx~15xxnm 300mW

Spec No.: CAT-09-029D

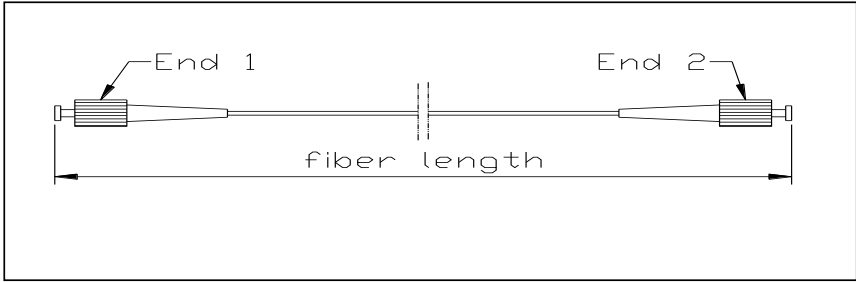
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Specifications

Parameters	Unit	Values							
Wavelength	nm	405, 460, 532	630	780, 850		980, 1064	1310	1550	2000
Max. Insertion Loss	dB	1.5	1.2	1.0 (for PM780-HP)	0.7 (for PM850)	0.6	0.5		0.7
Min. Extinction Ratio	dB	18	20		22	23			22
Min. Return Loss	dB	50 for UPC, 60 for APC							
Key Width (for FC Connector)	mm	2.02							
Max. Optical Power (CW)	mW	100				300			
Max. Tensile Load	N	5							
Fiber Type		PM Panda Fiber							
Fiber Length Tolerance	%	± 10 or Specify							
Operating Temperature	°C	-5 ~ +70							
Storage Temperature	°C	-40 ~ +85							

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMP-①-②②-③③-④-⑤-⑥

①: Wavelength

55 - 1550nm

31 - 1310nm

06 - 1064nm

98 - 980nm

85 - 850nm

78 - 780nm

63 - 630nm

SS - Specify

③③: Connector Type on End 1 & 2

1B - FC/UPC

2B - FC/APC

3D - SC/UPC

4D - SC/APC

7B - LC/UPC

8B - LC/APC

N - None

SS - Specify

⑤: Fiber Type

2B - PM1550 Fiber

3B - PM1310 Fiber

4B - PM980 Fiber

5B - PM850 Fiber

6C - PM780-HP Fiber

7C - PM630-HP Fiber

8C - PM460-HP Fiber

9C - PM-S405-XP Fiber

SS - Specify

②②: Key Orientation on End 1 & 2

1 - Slow Axis

2 - Fast Axis

N - None

④: Fiber Jacket

B - Bare Fiber

C - 900um Loose Tube (Red)

R - 3mm Cable (Blue)

SS - Specify

⑥: Fiber Length

1A - 1.0m ± 10%

SS - Specify

Patchcord 10xxnm~15xxnm 300mW

Spec No.: CAT-10-007C

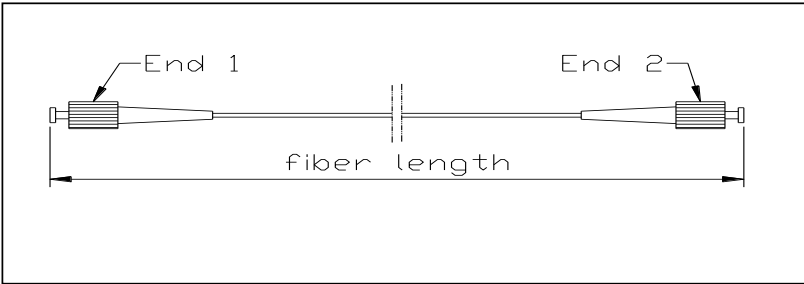
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Specifications

Parameters	Unit	Values						
Wavelength	nm	405, 460, 532	630	780, 850		980, 1064	1310, 1550	2000
Max. Insertion Loss	dB	1.5	1.2	1.0 (for 780-HP)	0.7 (for Hi780)	0.6	0.5	0.7
Min. Return Loss	dB	50 for UPC, 60 for APC						
Key Width (for FC Connector)	mm	2.02						
Max. Optical Power (CW)	mW	100				300		
Max. Tensile Load	N	5						
Fiber Length Tolerance	%	± 10% or Specify						
Operating Temperature	℃	-5 to +70						
Storage Temperature	℃	-40 to +85						

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

P-①-②②-③-④-⑤

①: Wavelength

55 - 1550nm

31 - 1310nm

06 - 1064nm

98 - 980nm

85 - 850nm

78 - 780nm

SS - Specify

③: Fiber Jacket Type

B - Bare Fiber

F - 900um Loose Tube(White)

T - 3mm Cable(Yellow)

V - 3mm Armoured Cable(Black)

SS - Specify

⑤: Fiber Length

1A - 1.0m ± 10%

SS - Specify

②②: Connector Type on End 1 & 2

1A - FC/UPC

2A - FC/APC

3D - SC/UPC

4D - SC/APC

7B - LC/UPC

8B - LC/APC

N - None

SS - Specify

④: Fiber Type

B - HI 780 Fiber

F - SMF-28e Fiber

H - HI 1060 Fiber

J - Nufern 780-HP Fiber

W – Nufern 630-HP Fiber

Y – Nufern 405-HP Fiber

A2 - SM1950 Fiber

A6 - Nufern 460-HP Fiber

SS - Specify

Polarization Maintaining Fiber Patchcord 9xx~15xxnm 300mW

Spec No.: CAT-09-029D

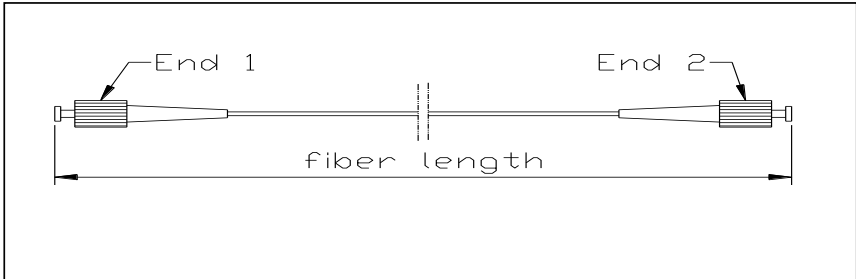
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Specifications

Parameters	Unit	Values							
Wavelength	nm	405, 460, 532	630	780, 850		980, 1064	1310	1550	2000
Max. Insertion Loss	dB	1.5	1.2	1.0 (for PM780-HP)	0.7 (for PM850)	0.6	0.5		0.7
Min. Extinction Ratio	dB	18	20		22	23			22
Min. Return Loss	dB	50 for UPC, 60 for APC							
Key Width (for FC Connector)	mm	2.02							
Max. Optical Power (CW)	mW	100				300			
Max. Tensile Load	N	5							
Fiber Type		PM Panda Fiber							
Fiber Length Tolerance	%	± 10 or Specify							
Operating Temperature	°C	-5 ~ +70							
Storage Temperature	°C	-40 ~ +85							

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMP-①-②②-③③-④-⑤-⑥

①: Wavelength

- 55 - 1550nm
- 31 - 1310nm
- 06 - 1064nm
- 98 - 980nm
- 85 - 850nm
- 78 - 780nm
- 63 - 630nm
- SS - Specify

③③: Connector Type on End 1 & 2

- 1B - FC/UPC
- 2B - FC/APC
- 3D - SC/UPC
- 4D - SC/APC
- 7B - LC/UPC
- 8B - LC/APC
- N - None
- SS - Specify

⑤: Fiber Type

- 2B - PM1550 Fiber
- 3B - PM1310 Fiber
- 4B - PM980 Fiber
- 5B - PM850 Fiber
- 6C - PM780-HP Fiber
- 7C - PM630-HP Fiber
- 8C - PM460-HP Fiber
- 9C - PM-S405-XP Fiber
- SS - Specify

②②: Key Orientation on End 1 & 2

- 1 - Slow Axis
- 2 - Fast Axis
- N - None

④: Fiber Jacket

- B - Bare Fiber
- C - 900um Loose Tube (Red)
- R - 3mm Cable (Blue)
- SS - Specify

⑥: Fiber Length

- 1A - 1.0m ± 10%
- SS - Specify

Patchcord 9xx~15xxnm 300mW

Spec No.: CAT-10-007C

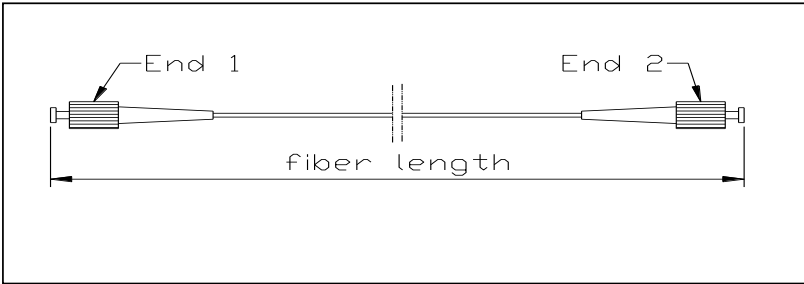
Date:

Specifications

Parameters	Unit	Values						
Wavelength	nm	405, 460, 532	630	780, 850		980, 1064	1310, 1550	2000
Max. Insertion Loss	dB	1.5	1.2	1.0 (for 780-HP)	0.7 (for Hi780)	0.6	0.5	0.7
Min. Return Loss	dB	50 for UPC, 60 for APC						
Key Width (for FC Connector)	mm	2.02						
Max. Optical Power (CW)	mW	100				300		
Max. Tensile Load	N	5						
Fiber Length Tolerance	%	± 10% or Specify						
Operating Temperature	℃	-5 to +70						
Storage Temperature	℃	-40 to +85						

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

P-①-②②-③-④-⑤

①: Wavelength

- 55 - 1550nm
- 31 - 1310nm
- 06 - 1064nm
- 98 - 980nm
- 85 - 850nm
- 78 - 780nm
- SS - Specify

③: Fiber Jacket Type

- B - Bare Fiber
- F - 900um Loose Tube(White)
- T - 3mm Cable(Yellow)
- V - 3mm Armoured Cable(Black)
- SS - Specify

⑤: Fiber Length

- 1A - 1.0m ± 10%
- SS - Specify

②②: Connector Type on End 1 & 2

- 1A - FC/UPC
- 2A - FC/APC
- 3D - SC/UPC
- 4D - SC/APC
- 7B - LC/UPC
- 8B - LC/APC
- N - None
- SS - Specify

④: Fiber Type

- B - HI 780 Fiber
- F - SMF-28e Fiber
- H - HI 1060 Fiber
- J - Nufern 780-HP Fiber
- W – Nufern 630-HP Fiber
- Y – Nufern 405-HP Fiber
- A2 - SM1950 Fiber
- A6 - Nufern 460-HP Fiber
- SS - Specify

Polarization Maintaining Fiber Patchcord 9xx~15xxnm 300mW

Spec No.: CAT-09-029D

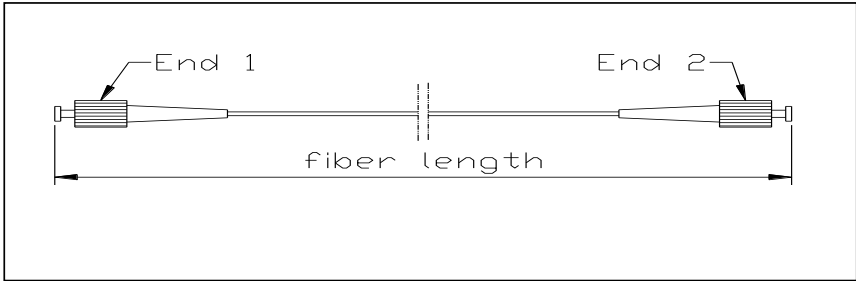
Date:

Specifications

Parameters	Unit	Values							
Wavelength	nm	405, 460, 532	630	780, 850		980, 1064	1310	1550	2000
Max. Insertion Loss	dB	1.5	1.2	1.0 (for PM780-HP)	0.7 (for PM850)	0.6	0.5		0.7
Min. Extinction Ratio	dB	18	20		22	23			22
Min. Return Loss	dB	50 for UPC, 60 for APC							
Key Width (for FC Connector)	mm	2.02							
Max. Optical Power (CW)	mW	100				300			
Max. Tensile Load	N	5							
Fiber Type		PM Panda Fiber							
Fiber Length Tolerance	%	± 10 or Specify							
Operating Temperature	°C	-5 ~ +70							
Storage Temperature	°C	-40 ~ +85							

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMP-①-②②-③③-④-⑤-⑥

①: Wavelength

- 55 - 1550nm
- 31 - 1310nm
- 06 - 1064nm
- 98 - 980nm
- 85 - 850nm
- 78 - 780nm
- 63 - 630nm
- SS - Specify

③③: Connector Type on End 1 & 2

- 1B - FC/UPC
- 2B - FC/APC
- 3D - SC/UPC
- 4D - SC/APC
- 7B - LC/UPC
- 8B - LC/APC
- N - None
- SS - Specify

⑤: Fiber Type

- 2B - PM1550 Fiber
- 3B - PM1310 Fiber
- 4B - PM980 Fiber
- 5B - PM850 Fiber
- 6C - PM780-HP Fiber
- 7C - PM630-HP Fiber
- 8C - PM460-HP Fiber
- 9C - PM-S405-XP Fiber
- SS - Specify

②②: Key Orientation on End 1 & 2

- 1 - Slow Axis
- 2 - Fast Axis
- N - None

④: Fiber Jacket

- B - Bare Fiber
- C - 900um Loose Tube (Red)
- R - 3mm Cable (Blue)
- SS - Specify

⑥: Fiber Length

- 1A - 1.0m ± 10%
- SS - Specify

Patchcord 9xx~15xxnm 300mW

Spec No.: CAT-10-007C

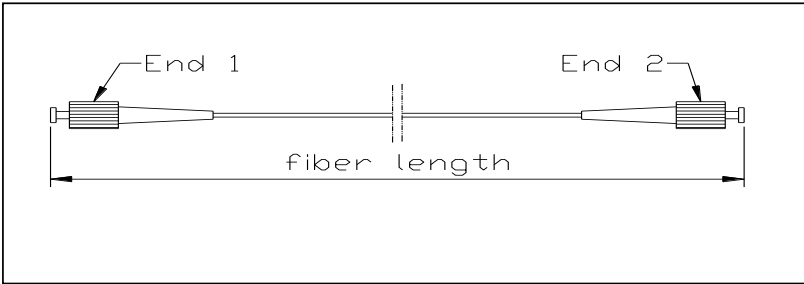
Date:

Specifications

Parameters	Unit	Values						
Wavelength	nm	405, 460, 532	630	780, 850		980, 1064	1310, 1550	2000
Max. Insertion Loss	dB	1.5	1.2	1.0 (for 780-HP)	0.7 (for Hi780)	0.6	0.5	0.7
Min. Return Loss	dB	50 for UPC, 60 for APC						
Key Width (for FC Connector)	mm	2.02						
Max. Optical Power (CW)	mW	100				300		
Max. Tensile Load	N	5						
Fiber Length Tolerance	%	± 10% or Specify						
Operating Temperature	℃	-5 to +70						
Storage Temperature	℃	-40 to +85						

* The material must be RoHS compliant.

Package Dimensions



Ordering Information

P-①-②②-③-④-⑤

①: Wavelength

- 55 - 1550nm
- 31 - 1310nm
- 06 - 1064nm
- 98 - 980nm
- 85 - 850nm
- 78 - 780nm
- SS - Specify

③: Fiber Jacket Type

- B - Bare Fiber
- F - 900um Loose Tube(White)
- T - 3mm Cable(Yellow)
- V - 3mm Armoured Cable(Black)
- SS - Specify

⑤: Fiber Length

- 1A - 1.0m ± 10%
- SS - Specify

②②: Connector Type on End 1 & 2

- 1A - FC/UPC
- 2A - FC/APC
- 3D - SC/UPC
- 4D - SC/APC
- 7B - LC/UPC
- 8B - LC/APC
- N - None
- SS - Specify

④: Fiber Type

- B - HI 780 Fiber
- F - SMF-28e Fiber
- H - HI 1060 Fiber
- J - Nufern 780-HP Fiber
- W – Nufern 630-HP Fiber
- Y – Nufern 405-HP Fiber
- A2 - SM1950 Fiber
- A6 - Nufern 460-HP Fiber
- SS - Specify

Date:

Parameters		Unit	Values
Center Wavelength		nm	630, 850 1064, 1310 or 1550
Operating Wavelength Range		nm	±40
Optical Delay Range		ps	0 ~ 530
Zero Point Delay Offset**		ps	~ 280
Readout Scale Resolution		mm	0.5*4
Max. Insertion Loss @λc		dB	1.7 1.5
Max. Insertion Loss Variation		dB	0.9 0.6
Min. Extinction Ratio (Only for PM Fiber)		dB	18 20
Max. PDL (Only for SM Fiber)		dB	0.15 0.1
Min. Return Loss		dB	50
Max. Optical Power (CW)		mW	300
Fiber Type	MVDL	-	SM Fiber
	MPMVDL	-	PM Panda Fiber
Operating Temperature		°C	0 to+40 (No Condensing)
Storage Temperature		°C	0 to +85 (No Condensing)

**Absolute delay at 0ps setting measured to the edge of the enclosure (excluding caps, boots, and Pigtails).

[illegible]

0.8 - 0.8m
S - Specify

Mini Variable Optical Delay Line 15xxnm 300mW~5W

Spec No.: CAT-10-031B

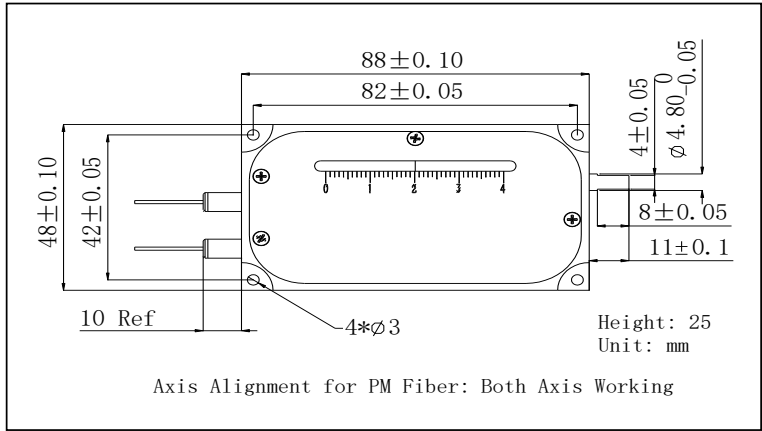
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Specifications

Parameters		Unit	Values	
Center Wavelength		nm	630, 850	1064, 1310 or 1550
Operating Wavelength Range		nm	±40	
Optical Delay Range		ps	0 ~ 530	
Zero Point Delay Offset**		ps	~ 280	
Readout Scale Resolution		mm	0.5*4	
Max. Insertion Loss @λc		dB	1.7	1.5
Max. Insertion Loss Variation		dB	0.9	0.6
Min. Extinction Ratio (Only for PM Fiber)		dB	18	20
Max. PDL (Only for SM Fiber)		dB	0.15	0.1
Min. Return Loss		dB	50	
Max. Optical Power (CW)		mW	300	
Fiber Type	MVDL	-	SM Fiber	
	MPMVDL	-	PM Panda Fiber	
Operating Temperature		°C	0 to+40 (No Condensing)	
Storage Temperature		°C	0 to +85 (No Condensing)	

*Above specifications are for device without connector.
*For devices with connectors, IL will be 0.3dB higher (0.5dB higher for 1064nm), ER will be 2dB lower, and RL will be 5dB lower.
*The PM fiber and the connector key are aligned to the slow axis.
**Absolute delay at 0ps setting measured to the edge of the enclosure (excluding caps, boots, and Pigtails).

Package Dimensions



Ordering Information

MVDL-①①-②②-③③-④-⑤

MPMVDL-①①-②②-③③-④-⑤

①①: Center Wavelength 63 - 630nm 85 - 850m 06 - 1064nm 31 - 1310m 55 - 1550nm SS - Specify	②②: Connector Type 1A- FC/UPC 2A - FC/APC 3D - SC/UPC 4D - SC/APC N - None S - Specify	④: Fiber Type B - HI 780 Fiber F - SMF-28e Fiber H - HI 1060 Fiber W – Nufern 630-HP Fiber 2A - PM1550 Fiber 3A - PM1310 Fiber 4A - PM980 Fiber 7C - PM630 Fiber SS - Specify	⑤: Fiber Length 0.8 - 0.8m S - Specify
	③③: Fiber Jacket Type B - Bare Fiber C - 900um Losse tube (Red) F - 900um Losse tube (White) S - Specify		

Signal Receipt Module 8xxnm 300mW

Spec Evaluation No.:SE1906001D

Date: Sep. 24, 2024

Specifications

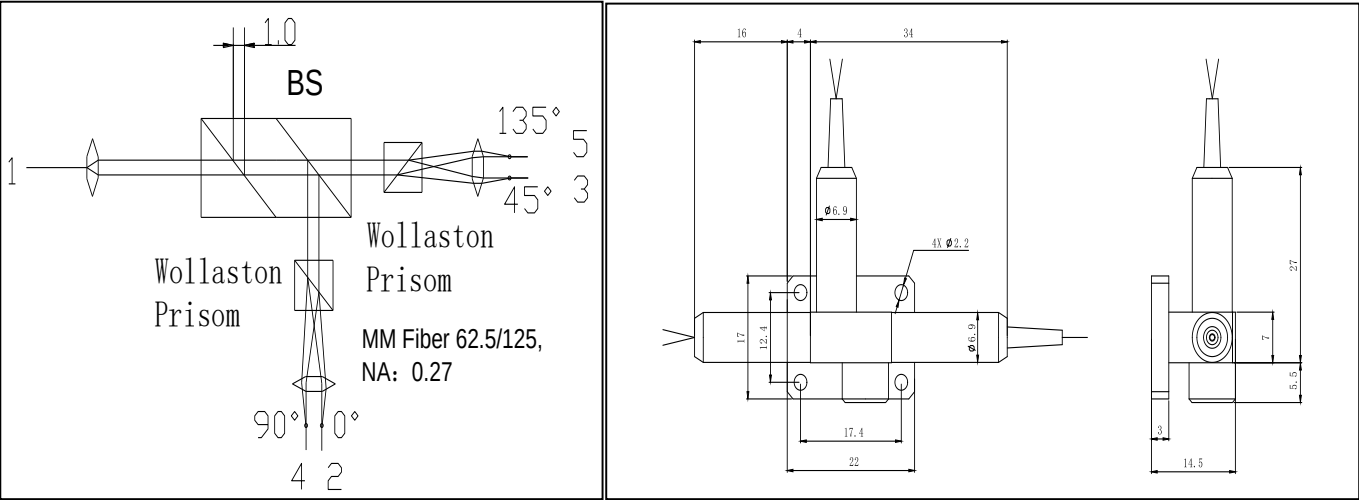
Parameters	Unit	Values
Center Wavelength	nm	850
Operating Wavelength Range	nm	±5
Min. Contrast (1→2/4、1→3/5) @ 23℃	dB	27
Max. IL (1→2/3/4/5) ,SOP	dB	7.5
Coaxiality	-	≥85%
Min. Return Loss (SM Fiber / MM Fiber)	dB	50/30
Max. Optical Power (CW)	mW	500
Max. Tensile Load	N	5
Fiber Type	-	Port 1: Nufern 780-HP Fiber ,Port 2/3/4/5: Nufern MultiMode Fiber 62.5/125
Operating Temperature	℃	-5 to + 50 (No Condensing)
Storage Temperature	℃	-40 to +85 (No Condensing)

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.2dB higher and RL will be 20dB lower for MM fiber, IL will be 0.5dB higher and RL will be 5dB lower for SM fiber.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

SRM-①①-②-③-④④④④④-⑤⑤⑤⑤⑤⑤-⑥-⑦⑦

①①: Wavelength
85 - 850nm

②: Type
M - Type M

③:Handling Power
0.5 - 500mW

④④④④④④: Connector Type on Port
1G - FC/UPC
2G - FC/APC (Step)
N - None
SSSSS - Specify

⑤⑤⑤⑤⑤⑤: Fiber Jacket on Port
B - 250um Bare Fiber
E - 900um Loose Tube(Black)

⑥: Fiber Length
0.5 - 0.5m
S - Specify
⑦⑦: Fiber Type
04 - Nufern 780-HP for Port 1
others Nufern MultiMode 62.5/125

Polarization Maintaining Filter Coupler with Polarization Beam Splitter Device

15xxnm 500mW

Spec Review No.: SR2312009A

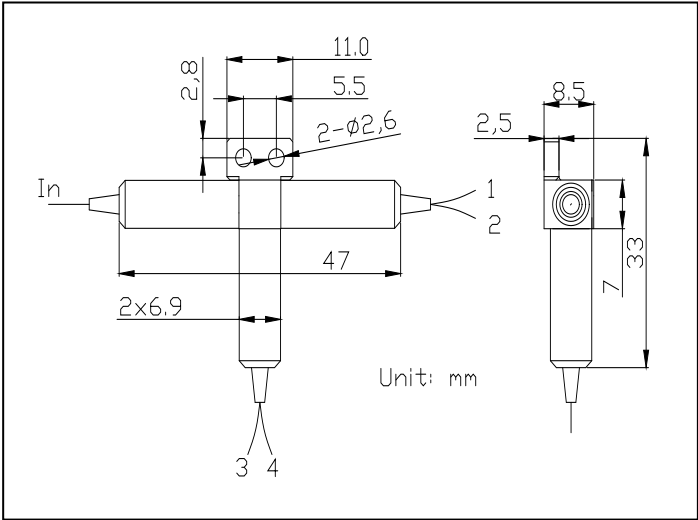
Date: Dec. 04, 2023

Specifications

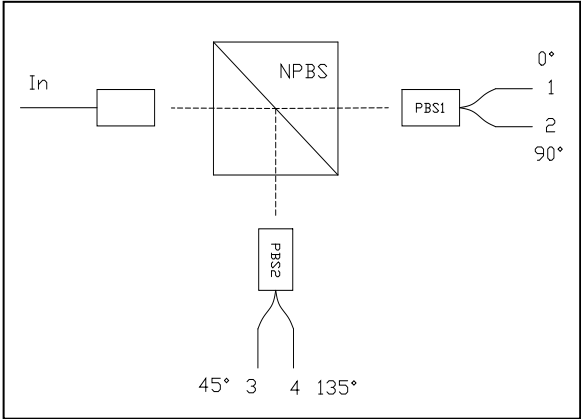
Parameters	Unit	Values
Center Wavelength	nm	1550
Operating Wavelength Range	nm	±30
Max. Insertion Loss (In → 1 & 2, Proper SOP)	dB	4.2
Max. Insertion Loss (In → 3 & 4, Proper SOP)	dB	4.2
Max. Uniformity	dB	0.3
Min. Extinction Ratio	dB	25
Min. Return Loss	dB	45
Max. Optical Power (CW)	mW	500
Max. Tensile Load	N	5
Fiber Type	-	SM Fiber and PM Fiber
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

- *Above specifications are for devices without the connectors.
- *For devices with connectors, IL will be 0.3dB higher, and ER will be 2dB lower, and RL will be 5dB lower.
- *The PM fiber and the connector key are aligned to the slow axis.
- *The material must be RoHS compliant.

Package Dimensions



Optical Path



Ordering Information

PMFCPBS-①①-②-③-④-⑤-⑥

- | | | |
|---|---|---|
| ①①: Wavelength
55 - 1550nm
SS - Specify | ③: Connector Type on all Ports
1A - FC/UPC
2A - FC/APC
S - Specify | ⑤: Fiber Type
F - SMF-28e Fiber (In Port)
2A - PM 1550 Fiber (1/2/3/4 Ports)
S - Specify |
| ②: Port
5 - 5 Ports | ④: Fiber Jacket on all Ports
C - 900um Losse Tube (Red, PM Fiber)
F - 900um Losse Tube (White, SM Fiber)
S - Specify | ⑥: Fiber Length
0.8 - 0.8m
S - Specify |

Polarization Maintaining Filter Coupler Module 8xxnm 300mW

Spec Review No.: SR1707005B

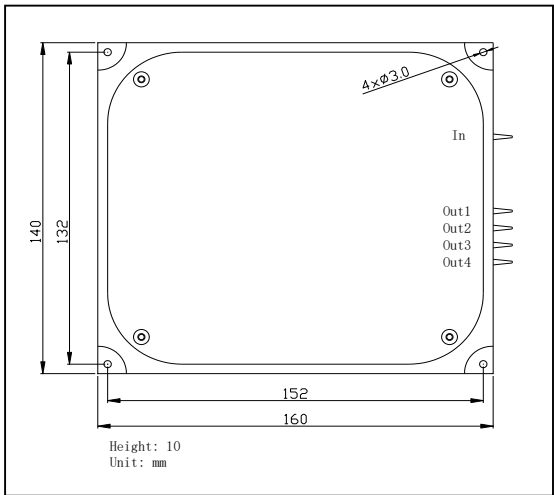
Date: May. 22, 2023

Specifications

Parameters	Unit	Values
Center Wavelength	nm	780 or 850
Operating Wavelength Range	nm	±10
Max. Insertion Loss	dB	8.5
Max. Uniformity	dB	0.8
Min. Extinction Ratio	dB	21
Min. Return Loss	dB	50
Max. Optical Power (CW, Total)	mW	300
Fiber Type	-	PM Panda Fiber
Operating Temperature	℃	-5 to+70
Storage Temperature	℃	-40 to +85

- *Above specifications are for module without connector.
- *For modules with connectors, IL will be 0.5dB higher, RL will be 5dB lower and ER will be 2dB lower.
- *The PM fiber and the connector key are aligned to the slow axis.
- *The material must be RoHS compliant.

Package Dimensions



Ordering Information

PMFCM-①①-②②②②-③③-④-⑤-⑥-⑦-⑧⑧-⑨⑨

- | | | |
|---|--|---|
| ①①: Center Wavelength
78 - 780nm
85 - 850nm
SS - Specify | ⑤: Connector Type
1B - FC/UPC
2B - FC/APC
3D - SC/UPC
4D - SC/APC
N - None
S - Specify | ⑦: Fiber Length
0.8 - 0.8m
S - Specify |
| ②②②②: Potrs Configuration
0104 - 1x4 | | ⑧⑧: Fiber Type
5A - PM850 Fiber
S - Specify |
| ③③: Splitting Ratio
BA - Balance | ⑥: Fiber Jacket Type
B - Bare Fiber
C - 900um Loose Tube (Red)
S - Specify | ⑨⑨: Package Dimensions
67 - 160x140x10mm |
| ④: Working Axis
F - Fast Axis Blocked | | |

Polarization Maintaining Filter Coupler Module 10xxnm 500mW

Spec Review No.: CAT-09-020C

Specifications

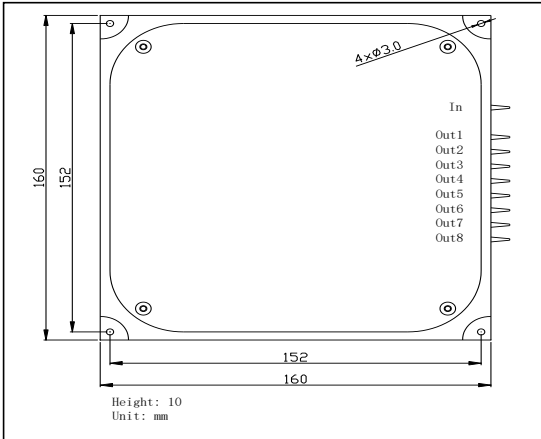
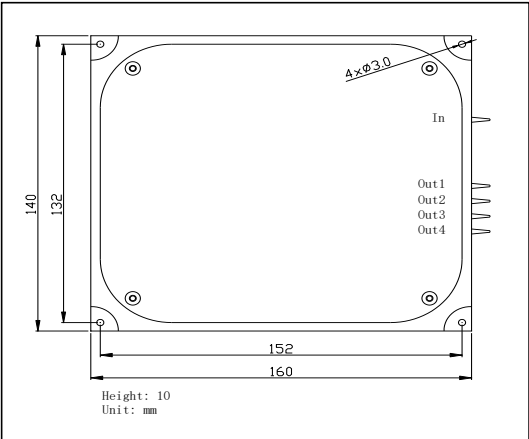
Parameters	Unit	1x4	1x8
Center Wavelength	nm	1030, 1064	
Operating Wavelength Range	nm	±20	
Insertion Loss	dB	≤8, Typ. 7.5	≤11.5, Typ. 11
Wavelength Dependent Loss	dB	≤0.5, Typ. 0.3	≤0.5, Typ. 0.3
Ports IL Uniformity	dB	≤0.8	≤1.0
Return Loss	dB	≥50	≥50
Directivity	dB	≥50	≥45
Extinction Ratio(only for B Type)	dB	≥20	≥17
Extinction Ratio(only for F Type)	dB	≥23	≥23
Temperature Dependent Loss	dB/℃	≤0.006	≤0.008
Fiber Type		PM Panda Fiber	
Operating Temperature	℃	-5 to +70	
Storage Temperature	℃	-40 to +85	
Package Dimensions	mm	160*140*10, or Specify	160*160*10, or Specify

*Above specifications are for module without connector.

*For modules with connectors, IL will be 0.5dB higher, RL will be 5dB lower and ER will be 2dB lower.

*The PM fiber and the connector key are aligned to the slow axis.

Package Dimensions



Ordering Information

PMFCM-①①-②②②②-③③-④-⑤-⑥-⑦-⑧-⑨⑨

①①: Center Wavelength

03 - 1030nm

06 - 1064nm

SS - Specify

②②②②: Potrs Configuration

0104 - 1x4

0108 - 1x8

③③: Splitting Ratio

BA - Balance

SS - Specify

④: Working Axis

F - Fast Axis Blocked

B - Both Axis Working

⑤: Connector Type

1B- FC/UPC

2B - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify

⑥: Fiber Type

B - Bare Fiber

C - 900um Losse tube (Red)

D - 900um Losse tube (Blue)

R - 3mm Cable (Blue)

S - Specify

⑦: Fiber Length

0.5 - 0.5m

S - Specify

⑧: Fiber Type

4B - PM980 Fiber

S - Specify

⑨⑨: Package Dimensions

67 - 160x140x10mm

68 - 160x160x10mm

S - Specify

Planar Lightwave Circuit Splitter 15xxnm 500mW

Spec Review No.: SR2302521A

Date: Nov. 23, 2023

Specifications

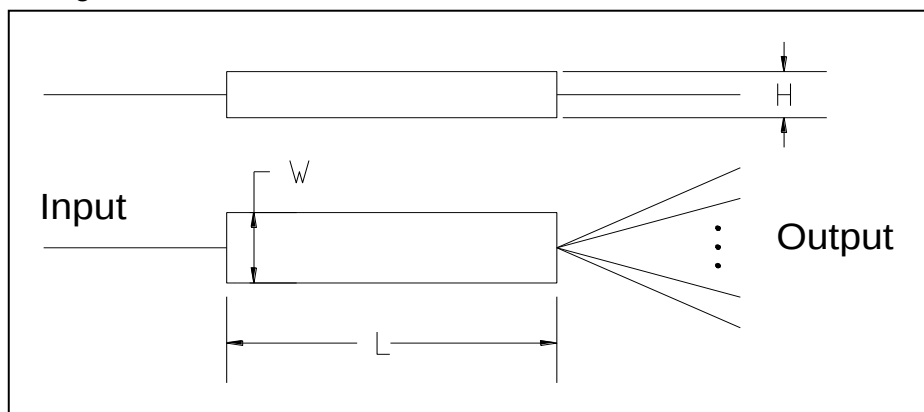
Parameters	Unit	Values			
Port Configuration	-	1x4	1x8	1x16	1x32
Operating Wavelength	nm	1260~1650			
Max. Insertion Loss	dB	7.40	10.70	13.70	16.90
Max. Uniformity	dB	0.60	0.80	1.00	1.50
Max. PDL	dB	0.10	0.10	0.20	0.25
Min. Return Loss	dB	50			
Min. Directivity	dB	50			
Max. Optical Power (CW)	mW	300			
Max. Tensile Load	N	5			
Operating Temperature	°C	-5 to +70			
Storage Temperature	°C	-40 to +85			
Fiber Type	-	SMF-28e Fiber			
Package Dimension for 250um Bare Fiber (L x W x H)	mm	40 x 4 x 4	40 x 4 x 4	50 x 7 x 4	50 x 7 x 4
Package Dimension for 900um Loose Tube (L x W x H)	mm	60 x 7 x 4	60 x 7 x 4	60 x 12 x 4	80 x 20 x 6

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lower.

*The material must be RoHS compliant.

Package Dimensions



Ordering information

PLC-①①①①-②②②②-③-④-⑤

①①①①: Operating Wavelength

2665 - 1260~1650nm

②②②②: Port Configuration

0104 - 1x4

0108 - 1x8

0116 - 1x16

0132 - 1x32

③: Connector Type on all Ports

1B- FC/UPC

2B - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify

④: Fiber Jacket on all Ports

B - 250um Bare Fiber

F - 900um Loose tube (White)

S - Specify

⑤: Fiber Length

1 - 1.0m

S - Specify

Polarization Maintaining Planar Lightwave Circuit Splitter 15xxnm 500mW

Spec Review No.: SR2209066B

Date: Sep. 30, 2022

Specifications

Parameters	Unit	Values			
Ports Configuration	-	1 x 4	1 x 8	1 x 16	1 x 32
Center Wavelength	nm	1310 or 1550			
Operating Wavelength Range	nm	±30			
Max. Insertion Loss, 23℃	dB	7.0	10.2	13.5	16.6
Max.Uniformity, 23℃	dB	0.4	0.4	0.6	0.8
Min. Extinction Ratio	dB	20	18	18	18
Min.Return Loss	dB	50			
Min.Directivity	dB	50			
Max. Optical Power (CW, Total)	mW	300			
Tensile Load	N	5			
Fiber Type	-	Corning PM Panda Fiber			
Operating Temperature	℃	-5 to +70			
Storage Temperature	℃	-40 to +85			
Package Dimension for 250um Bare Fiber (L x W x H)	mm	40 x 4 x 4	40 x 4 x 4	50 x 7 x 4	50 x 7 x 4
Package Dimension for 900um Loose Tube (L x W x H)	mm	60 x 7 x 4	60 x 7 x 4	60 x 12 x 4	80 x 20 x 6

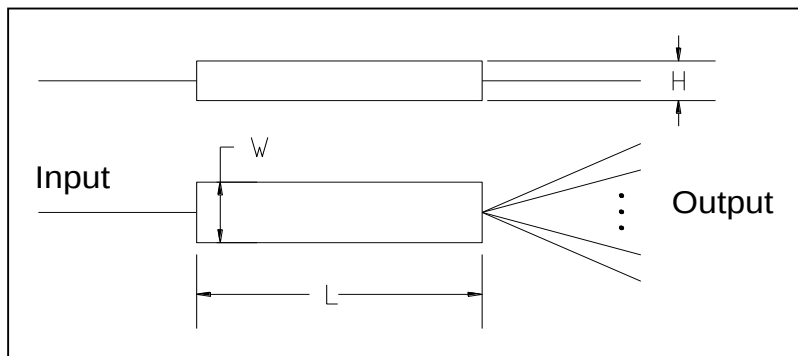
*Above specifications are for module without connector.

*For modules with connectors, IL will be 0.3dB higher, RL will be 5dB lower, and ER will be 2dB lower.

*The PM fiber and the connector key are aligned to the slow axis .

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

PLC-①①①①-②②②②-③-④-⑤-⑥

①①①①: Operating Wavelength

31 - 1310nm

55 - 1550nm

SS - Specify

②②②②: Ports Configuration

0104 - 1x4

0108 - 1x8

0116 - 1x16

0132 - 1x32

③: Connector Type

1A - FC/UPC

2A - FC/APC

3D - SC/UPC

4D - SC/APC

N - None

S - Specify

④: Fiber Jacket Type

B - Bare Fiber

C - 900um Loose tube (Red)

D - 900um Loose tube (Blue)

S - Specify

⑤: Fiber Type

2A - PM1550 Fiber

3A - PM1310 Fiber

SS - Specify

⑥: Fiber Length

1 - 1.0m

S - Specify

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