Polarization Maintaining Isolator (PMI Series)

Rev 11B

Description

The Polarization Maintaining Isolator is characterized with low insertion loss, high isolation, high return loss, high extinction ratio and excellent environmental stability and reliability. This optical isolator is ideal for polarization maintaining fiber amplifers, fiber lasers, high speed communication systems and instrumentation applications.

Key Features

- High Isolation
- Low Insertion Loss
- High Extinction Ratio

Applications

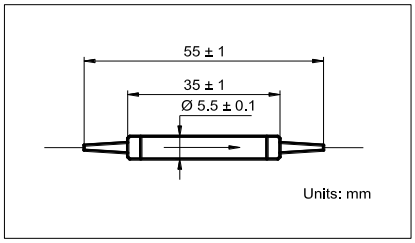
- Fiber Lasers
- Fiber Optic Instruments

Specifications

Parameter	Unit	Value			
Stage	-	Single Stage		Dual Stage	
Grade	-	Grade P	Grade A	Grade P	Grade A
Center Wavelength (λc)	nm	1310, 1480 or 1550			
Min. Extinction Ratio for - F Version	dB	25	23	25	23
Min. Extinction Ratio for - B Version	dB	20	18	20	18
Typ. Peak Isolation	dB	42	40	58	55
Min. Isolation, λc ± 10 nm, 23 ℃	dB	30	28	46	45
Typ. Insertion Loss, λc ± 20 nm, All Polarization States, 23 ℃	dB	0.4	0.5	0.5	0.7
Max. Insertion Loss, λc ± 20 nm, Operating Temperature, All Polarization States	dB	0.6	0.7	0.7	0.9
Min. Return Loss (Input/Output)	dB	55/50	55/50	55/50	55/50
Max. Optical Power (Continuous Wave)	mW	300			
Max. Tensile Load	N	5			
Fiber Type	-	PM Panda Fiber			
Operating Temperature	℃	- 5 to + 70			
Storage Temperature	℃	- 40 to + 85			

[1]IL is 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMI-①-②②-③-④-⑤-⑥-⑦

①: Stage	②②: Wavelength	③: Grade	④: Connector Type	
1 - Single Stage	31 - 1310 nm	P - Premium	1 - FC/UPC	4 - SC/APC
2 - Dual Stage	48 - 1480 nm	A - A Grade	2 - FC/APC	N - None
	55 - 1550 nm		3 - SC/UPC	S - Specify
	SS - Specify			

⑤: Fiber Jacket	⑥: Fiber Length	⑦: Working Axis
B - 250 μm Bare Fiber	Q - 0.75 m	F - Fast Axis Blocked
L - 900 μm Loose Tube	S - Specify	B - Both Axes Working
S - Specify		