

1310, 1480 and 1550nm Polarization Maintaining Isolator

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

Features

High Isolation
 Low Insertion Loss
 Large Aperture Features

Applications

Fiber Optic Lasers
 Optical Transmitters & Transceivers
 Fiber Amplifiers
 Fiber Sensors

Specifications

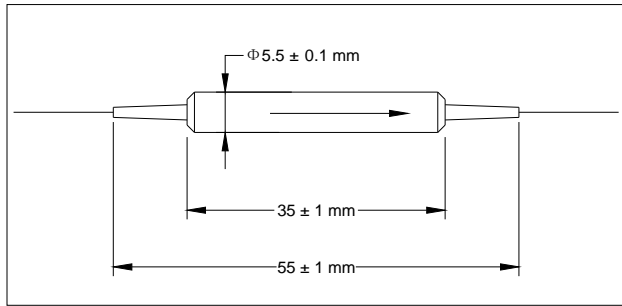
Parameters	Unit	Values			
		Single Stage		Dual Stage	
Grade		Grade P	Grade A	Grade P	Grade A
Center Wavelength (λ_c)	nm	1310, 1480 or 1550			
Typ. Peak Isolation	dB	42	40	58	55
Min. Isolation, $\lambda_c \pm 10\text{nm}$, 23°C, all polarization states	dB	28	26	48	45
Typ. Insertion Loss, $\lambda_c \pm 20\text{nm}$, 23°C, all polarization states	dB	0.4	0.5	0.5	0.7
Max. Insertion Loss, $\lambda_c \pm 20\text{nm}$, all temperature, all polarization states	dB	0.6	0.7	0.7	0.9
Min. Extinction Ratio	dB	20	18	20	18
Max. Optical Power (CW)	mW	300			
Max. Tensile Load	N	5			
Fiber Type		PM Panda Fiber or specify			
Operating Temperature	°C	-5 to +70			
Storage Temperature	°C	-40 to +85			

*Above specifications are for device without connector.

*IL is 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added.

*The connector key is aligned to the slow axis.

Package Dimensions



Ordering Information

PMI-①-②②-③-④-⑤-⑥-⑦

①: Stage	③: Grade	④: Connector Type	⑤: Fiber Type	⑥: Fiber Length
1 - Single stage	P - Premium	1 - FC/UPC	B - 250 μ m Panda fiber	Q - 0.75 m
2 - Dual stage	A - A grade	2 - FC/APC	D - 400 μ m Panda fiber	S - Specify
		3 - SC/UPC	L - 900 μ m loose tube	
		4 - SC/APC	S - Specify	⑦: Working Axis
②②: Wavelength		N - None		F - Fast axis blocked
31 - 1310 nm				B - Both axes working
48 - 1480 nm				
55 - 1550 nm				
SS - Specify				