



Polarization Maintaining Isolator (PMI Series)

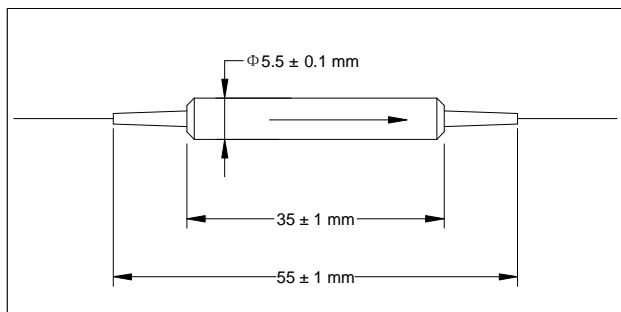
Spec Review No.: SR3458 Date: Aug 28, 2008

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.

Specifications

Parameter	Unit	Single Stage		Dual Stage	
		Grade P	Grade A	Grade P	Grade A
Center Wavelength (λ_c)	nm	1310, 1480 or 1550			
Min. Extinction Ratio	dB	20	18	20	18
Typ. Peak Isolation	dB	42	40	58	55
Min. Isolation, $\lambda_c \pm 10$ nm, 23 °C, all polarization states	dB	30	28	46	45
Typ. Insertion Loss, $\lambda_c \pm 20$ nm, 23 °C, all polarization states	dB	0.4	0.5	0.5	0.7
Max. Insertion Loss, $\lambda_c \pm 20$ nm, all 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. Average Optical Power	mW	300			
Max. Peak Power for ns pulse	kW	1			
Max. Tensile Load	N	5			
Fiber Type		PM Panda fiber or specify			
Operating Temperature	°C	-5 to +70			
Storage Temperature	°C	-40 to +85			

Package Dimensions



Ordering Information

PMI-①-②②-③-④-⑤-⑥-⑦-P

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