



## Polarization Maintaining Isolator (PMI Series)

Rev 11B

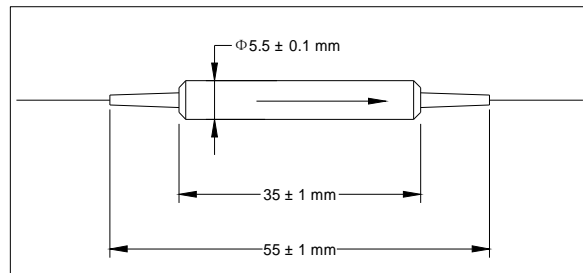
The Polarization Maintaining Isolator is characterized with low insertion loss, high isolation, high return loss, high extinction ratio and excellent environmental stability and reliability. It is ideal for polarization maintaining fiber amplifiers, fiber lasers, high speed communication systems and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

### Specifications

Parameter	Unit	Single Stage		Dual Stage	
		Grade P	Grade A	Grade P	Grade A
Center Wavelength ( $\lambda_c$ )	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, $\lambda_c \pm 10$ nm, 23 °C	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. Optical Power (Continuous Wave)	mW	300			
Max. Tensile Load	N	5			
Fiber Type		PM Panda fiber			
Operating Temperature	°C	-5 to +70			
Storage Temperature	°C	-40 to +85			

\*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 $\mu$ m bare fiber	Q - 0.75 m	F - Fast axis blocked	
L - 900 $\mu$ m loose tube	S - Specify	B - Both axis working	
S - Specify			