

# Polarization Maintaining Isolator (PMI Series)

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 amplifier, fiber laser, high speed communication systems and instrumentation applications.

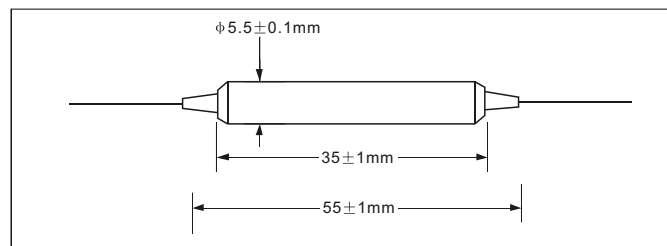


Specifications					
Parameters	Unit	Single Stage		Dual Stage	
		Grade P	Grade A	Grade P	Grade A
Center Wavelength ( $\lambda_c$ )	nm	1310, 1480 or 155			
Min. Extinction Ratio	dB	20	18	20	18
Typ. Peak Isolation	dB	42	40	58	55
Min. Isolation at 23°C; $\lambda_c \pm 15$ nm, all polarization states	dB	32	30	46	45
Typ. Insertion Loss at 23°C; $\lambda_c \pm 20$ nm, all polarization states	dB	0.4	0.5	0.5	0.7
Max. Insertion Loss at -5°C-70°C; $\lambda_c \pm 20$ nm, all polarization states	dB	0.55	0.7	0.65	0.9
Min. Return Loss (input/output)	dB	55 / 50	55 / 50	55 / 50	55 / 50
Max. Optical Power	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 connectors.

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

## Package Dimensions



## Ordering Information

### PMI-①-②②-③-④-⑤-⑥

#### ①: Stage

- 1-Single Stage
- 2-Dual Stage

#### ②②: Wavelength

- 31 - 1310nm
- 48 - 1480nm
- 55 - 1550nm
- SS - Specify

#### ③: Grade

- P - Premium grade
- A - A grade

#### ④: Connector Type

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

#### ⑤: Fiber Type

- B - 250um Panda Fiber
- D - 400um Panda Fiber
- L - 900um loose tube Panda Fiber
- S - Specify

#### ⑥: Fiber Length

- Q - 0.75 m
- S - Specify

Remark: The PM fiber and the connector key are aligned to the slow axis