

PRODUCT INFORMATION SHEET

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.

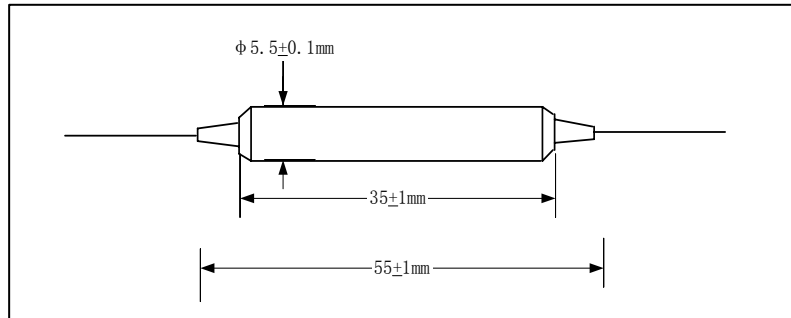
Specifications

Parameters	Unit	Single Stage		Dual Stage	
		Grade P	Grade A	Grade P	Grade A
Center Wavelength (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 at 23°C; $\lambda_c \pm 15\text{nm}$, all polarization states	dB	32	30	46	45
Typ. Insertion Loss at 23°C; $\lambda_c \pm 20\text{nm}$, all polarization states	dB	0.4	0.5	0.5	0.7
Max. Insertion Loss at -5°C - 70°C; $\lambda_c \pm 20\text{nm}$, 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 connector.

*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-①-②-③-④-⑤-⑥

① Stage	② Wavelength	③ Grade	④ Connector Type	⑤ Fiber Type	⑥ Fiber Length
1-Single Stage	31 - 1310nm	P - Premium grade	N - None	B - 250um Panda Fiber	Q - 0.75 m
2-Dual Stage	48 - 1480nm	A - A grade	S - Specify	D - 400um Panda Fiber	S - Specify
	55 - 1550nm			L - 900um loose tube Panda Fiber	
	SS - Specify			S - Specify	

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