



2 μm Polarization Maintaining Isolator (PMI Series)

Rev 11B

Description

The 2 μm Polarization Maintaining Isolator is designed and manufactured according to Telcordia standard. The unique manufacturing process and optical path epoxy-free design enhance the device high power handling capability. The device is characterized with high performance, high reliability. It was designed specially for 2 μm laser system.

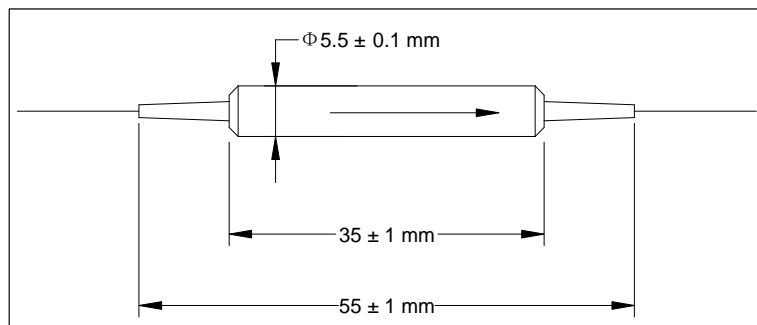
Specifications

Parameter	Unit	Single Stage	Dual Stage
Center Wavelength (λ_c)	μm		2
Min. Extinction Ratio	dB	18	18
Min. Isolation, $\lambda_c \pm 50 \text{ nm}$, 23 $^\circ\text{C}$, all polarization states	dB	16	35
Max. Insertion Loss, $\lambda_c \pm 20 \text{ nm}$, 23 $^\circ\text{C}$, all polarization states	dB	1.3	1.5
Min. Return Loss (Input/Output)	dB	50	50
Max. Average Optical Power	W		1, 2
Max. Peak Power for ns Pulse	kW		10
Max. Tensile Load	N		5
Fiber Type	-	PM 1550 Panda Fiber	
Operating Temperature	$^\circ\text{C}$	- 5 to + 70	
Storage Temperature	$^\circ\text{C}$	- 40 to + 85	

¹IL 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.

²The Optical Power is 1 W only for connector added.

Package Dimensions



Ordering Information

PMI-①①①①-②-③-④-⑤-⑥-⑦-⑧

①①①①: Wavelength	②: Handling Power	③: Stage	④: Connector Type
2000 - 2000 nm	1 - 1 W	1 - Single Stage	1 - FC/UPC 4 - SC/APC
SSSS - Specify	2 - 2 W	2 - Dual Stage	2 - FC/APC N - None
	S - Specify		3 - SC/UPC S - Specify

⑤: Fiber Jacket	⑥: Fiber Length	⑦: Working Axis	⑧: Power Type
B - 250 μm Panda Fiber	Q - 0.75 m	F - Fast Axis Blocked	P - Pulse Application
L - 900 μm Loose Tube	S - Specify	B - Both Axis Working	C - Continuous Wave
S - Specify			