

2 µm Polarization Maintaining Isolator (PMI Series)

Rev 11B

Description

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

Key Features		Applications	
High Power Handling		Fiber Laser	
Specifications			
Parameter	Unit	Value	
Stage	-	Single Stage	Dual Stage
Center Wavelength (λc)	nm	2000	
Min. Extinction Ratio, 23 °C	dB	18	18
Min. Isolation, $\lambda c \pm 50$ nm, All Polarization States, 23 °C	dB	16	35
Max. Insertion Loss, λc ± 20 nm, All Polarization States, 23 $^{\circ}\text{C}$	dB	1.3	1.5
Min. Return Loss (Input/Output)	dB	50	50
Max. Average Optical Power	W	1 or 2	
Max. Peak Power (Pulse Width, 10 ns)	kW	10	
Max. Tensile Load	Ν	5	
Fiber Type	-	PM 1550 Panda Fiber	
Operating Temperature	°C	- 5 to + 70	
Storage Temperature	°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 4 - SC/APC 2000 - 2000 nm 1 - 1 W 1 - Single Stage 1 - FC/UPC 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 Bare Fiber Q - 0.75 m F - Fast Axis Blocked P - Pulsed L - 900 µm Loose Tube S - Specify B - Both Axis Working C - Continuous Wave S - Specify Tel: +86 756 389 8035 Web: www.fiber-resources.com Email: sales@fiber-resources.com