

Polarization Maintaining Isolator

The 1550nm Polarization Maintaining Isolator is a two port micro-optic device built with PM panda fiber. The PM isolator features low insertion loss, high isolation, high extinction ratio and high reliability and stability. The device guides optical light in one direction and eliminates back reflection and back scattering in the reverse direction.

FEATURES

- Low Insertion Loss
- High Extinction Ratio
- High isolation
- Excellent stability and reliability

APPLICATIONS

- Fiber laser
- Fiber amplifier
- Fiber Sensor
- Communications



SPECIFICATIONS

Parameter	Unit	Single Stage			Dual Stage		
		P	A		P	A	
Grade	-						
Operating Wavelength	nm			1550 & 1310			
Bandwidth	nm		±20			±30	
Insertion loss at 23°C	dB	< 0.55		< 0.65		< 0.65	< 0.8
Min. Isolation at 23°C	dB	28		26		48	45
Extinction ratio (Type F)	dB	≥22		≥20		≥22	≥22
Return loss (input/output)	dB					≥50/50	
Fiber Type	-			PM1550 Panda Fiber			
Max. Power Handling (W)	mW			300			
Operating temperature	°C			-5°C ~ + 70°C			
Storage temperature	°C			-40°C ~ + 85 °C			
Dimensions	mm			Φ5.5× L35			

ORDER INFORMATION

P/N: PMI - ① - ② - ③ - ④ - ⑤ - ⑥ - ⑦

①	②	③	④	⑤	⑥	⑦
Port	Operating Wavelength	Grade	Axis Alignment	Fiber Diameter	Fiber Length	Connector
S:Single stage	13:1310nm	P: P	B:Both working	2:250μ	1:0.8 m	00: bare fiber
D: Dual stage	14:1480nm	A:A	F: Fast blocked	9:900μ	2:1.0 m	FA:FC/APC
	X:XX			2:2.0mm	X:XX	SA:SC/APC
				3:3.0mm		LA:LC/APC

Note1: The PM fiber and the connector key are aligned slow axis.

Note2: IL, RL and ER Values specified are without connector loss.

Note3: Specifications are subject to change without notice.

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