



Polarization Maintaining Isolator (PMI Series)

Rev 10

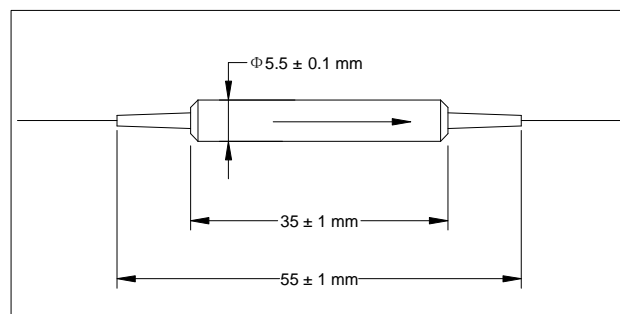
The Polarization Maintaining Isolator is characterized with low insertion loss, high isolation, high return loss, high extinction ratio and excellent environmental stability and reliability. It is ideal for polarization maintaining fiber amplifiers, fiber lasers, high speed communication systems and instrumentation applications.

Specifications

Parameter	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, $\lambda_c \pm 10$ nm, 23 °C, all polarization states	dB	30	28	46	45
Typ. Insertion Loss, $\lambda_c \pm 20$ nm, 23 °C, all polarization states	dB	0.4	0.5	0.5	0.7
Max. Insertion Loss, $\lambda_c \pm 20$ nm, all temperature, all polarization states	dB	0.6	0.7	0.7	0.9
Min. Return Loss (Input/Output)	dB	55/50	55/50	55/50	55/50
Max. Optical Power (Continuous Wave)	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			

*IL 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.

Package Dimensions



Ordering Information

PMI-①-②②-③-④-⑤-⑥-⑦

①: Stage	③: Grade	④: Connector Type	⑤: Fiber Jacket	⑥: Fiber Length
1 - Single stage	P - Premium	1 - FC/UPC	B - 250 μ m Panda fiber	Q - 0.75 m
2 - Dual stage	A - A grade	2 - FC/APC	D - 400 μ m Panda fiber	S - Specify
②②: Wavelength		3 - SC/UPC	L - 900 μ m loose tube	
31 - 1310 nm		4 - SC/APC	S - Specify	⑦: Working Axis
48 - 1480 nm		N - None		F - Fast axis blocked
55 - 1550 nm				B - Both axes working
SS - Specify				