

## Polarization Maintaining Isolator

Model #: PMI

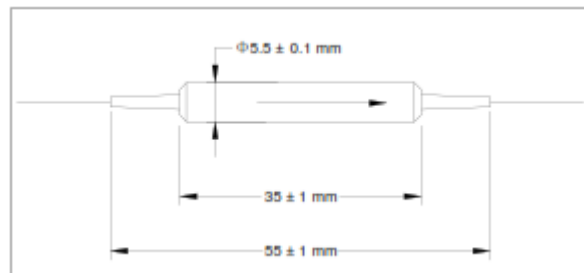
Description: 1310, 1480 or 1550 nm polarization maintaining isolator

Application: Fiber amplifier, fiber laser.

Specifications:

Parameter	Unit	Specifications			
		Single Stage		Dual Stage	
		P Grade	A Grade	P Grade	A Grade
Central Wavelength $\lambda_c$	nm	1310, 1480 or 1550			
Typ. Insertion Loss ( $\lambda_c \pm 20$ nm, 23 °C)	dB	0.4	0.5	0.5	0.7
Max. Insertion Loss ( $\lambda_c \pm 20$ nm, all temperature)	dB	0.6	0.7	0.7	0.9
Typ. Peak Isolation	dB	42	40	58	55
Min. Isolation ( $\lambda_c \pm 10$ nm, 23 °C )	dB	30	28	46	45
Min. Polarization Extinction Ratio	Fast axis blocked	25	23	25	23
	Both axes working	20	18	20	18
Min. Return Loss (Input / Output)	dB	55/50			
Max. Optical Power (CW)	mW	300			
Max. Tensile Load	N	5			
Operating Temperature	°C	-5 to +70			
Storage Temperature	°C	-40 to + 85			
Dimension	mm	5.5 (D) x 35 (L)			
Fiber Type		PM Panda fiber			

Note: each connector may contribute extra 0.3 dB IL, 5 dB lower RL and 2 dB lower ER. Keying to slow axis.



### Order Information:

**PMI-A-BB-C-D-E-F-G-H**

A: isolator stage	BB: wavelength	C: grade	D: connector type	E: fiber jacket	F: fiber length	H: Working axis
1 – single stage	31 – 1310 nm	P – P grade	1 - FC/UPC	B – 250 $\mu$ m PM fiber	Q – 0.75 m	F – fast axis blocked
2 – dual stage	48 – 1480 nm	A – A grade	2 - FC/APC	D - 400 $\mu$ m PM fiber	X - other	B – both axes working
	55 – 1550 nm		3 - SC/UPC	L - 900 $\mu$ m loss tube		
	XX - other		4 - SC/APC	X - other		
			N - none			
			X - other			