



## Mini Polarization Insensitive Isolator (MPI Series)

Rev 11B

### Description

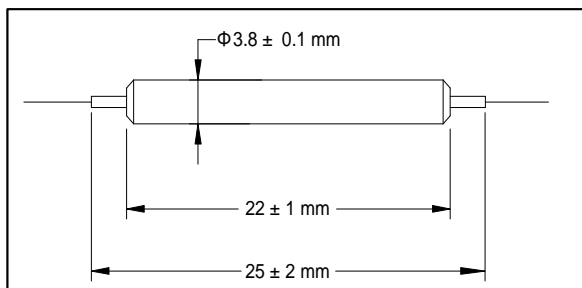
The Mini Polarization Insensitive Isolator series is characterized with very compact package, low insertion loss, high isolation, high return loss and excellent environmental stability and reliability. It is specifically designed to help the system and subsystem engineers to deal with the ever demanding space and density requirement.

### Specifications

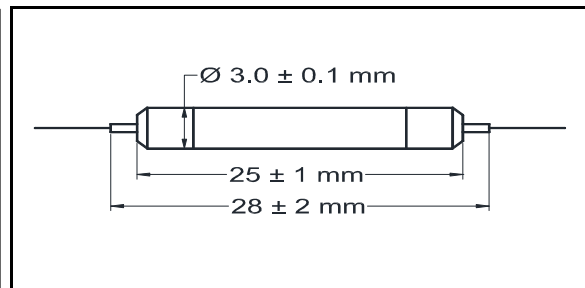
Parameter	Unit	Single Stage		Dual Stage	
		Grade P	Grade A	Grade P	Grade A
Center Wavelength ( $\lambda_c$ )	nm	1310, 1480, 1550			
Typ. Peak Isolation	dB	42	40	55	52
Min. Isolation, $\lambda_c \pm 10$ nm, 23 °C, all polarization states	dB	30	28	42	40
Typ. Insertion Loss, $\lambda_c \pm 10$ nm, 23 °C, all polarization states	dB	0.35	0.5	0.45	0.6
Max. Insertion Loss, $\lambda_c \pm 20$ nm, all temperature, all polarization states	dB	0.5	0.7	0.6	0.9
Min. Return Loss	dB	55	55	55	55
Max. Polarization Dependent Loss, 23 °C	dB	0.10	0.15	0.10	0.15
Max. Polarization Mode Dispersion	ps	0.20	0.25	0.05	0.07
Max. Optical Power (Continuous Wave)	mW	300			
Max. Tensile Load	N	5			
Fiber Type	-	SMF-28 Fiber			
Operating Temperature	°C	- 5 to + 70			
Storage Temperature	°C	- 40 to + 85			

<sup>1</sup>IL is 0.3 dB higher, RL is 5 dB lower for each connector added.

### Package Dimensions



Package 1



Package 2

### Ordering Information

MPI-①-②②-③-④-⑤-⑥-⑦-⑧

①: Stage

1 - Single Stage

2 - Dual Stage

②②: Wavelength

55 - 1550 nm

SS - Specify

③: Grade

P - Premium

A - A Grade

④: PMD

2 - Refer to above spec.

⑤: Connector Type

1 - FC/UPC    4 - SC/APC

2 - FC/APC    N - None

3 - SC/UPC    S - Specify

⑥: Fiber Jacket

B - 250  $\mu$ m Bare Fiber

L - 900  $\mu$ m Loose Tube

S - Specify

⑦: Fiber Length

1 - 1.0 m

S - Specify

⑧: Package Dimensions

1 - dia 3.8 x 22

2 - dia 3.0 x 25