



## Mini Polarization Insensitive Isolator (MPI Series)

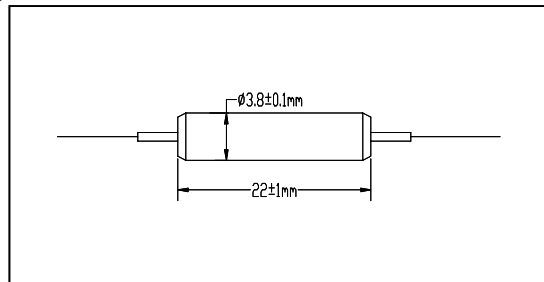
The Mini Polarization Insensitive Isolator series is characterized with very compact package, low insertion loss, high isolation, high return loss and excellent environmental stability and reliability. It is specifically designed to help the system and subsystem engineers to deal with the ever demanding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

### Specifications

| Parameters   | Unit | Single Stage       |                   |
|--|------|--------------------|-------------------|
|  |      | Grade P            | Grade A           |
| Center Wavelength ( $\lambda_c$ )  | nm   | 1310, 1480 or 1550 |                   |
| Typ. Peak Isolation  | dB   | 42                 | 40                |
| Min. Isolation at 23 $\lambda_c \pm 15$ nm, all polarization states          | dB   | 32                 | 30                |
| Typ. Insertion Loss at 23 $\lambda_c \pm 20$ nm, all polarization states     | dB   | 0.3                | 0.4               |
| Max. Insertion Loss at -5 -70 $\lambda_c \pm 20$ nm, all polarization states | dB   | 0.5                | 0.7               |
| Min. Return Loss (input/output)  | dB   | 60 / 55            | 60 / 55           |
| Max. PDL, 23°C   | dB   | 0.05               | 0.1               |
| Max. PMD   | ps   | 0.2 <sup>1</sup>   | 0.25 <sup>1</sup> |
| Max. Optical Power   | mW   | 300                |                   |
| Max. Tensile Load  | N    | 5                  |                   |
| Fiber Type   |      | Corning SMF-28     |                   |
| Operation Temperature  |      | -5 to +70          |                   |
| Storage Temperature  |      | -40 to +85         |                   |

<sup>1</sup> Low PMD version is available. PMD < 0.05ps

### Package Dimensions



\*Above specification are for device without connector.

\*For devices with connectors, insertion loss will be 0.3dB higher, RL will be 5dB lower.

### Ordering Information

MPI- - - - -

: Stage

1 - Single stage

: Wavelength

31 - 1310nm

48 - 1480nm

55 - 1550nm

SS - Specify

: Grade

P - Premium grade

A - A grade

: PMD

1 - 0.05ps max.

2 - Refer to above spec.

: Connector type

1 - FC/UPC

2 - ST/UPC

3 - LC/UPC

4 - FC/APC

5 - SC/APC

6 - SC/UPC

S - Specify

N - None

: Fiber type

B - 250 um bare fiber

L - 900 um loose tube

T - 900 um tight buffer fiber

: Fiber Length

1 - 1.0 m

S - Specify