

Mini Polarization Insensitive Isolator (DL-MPI-T-UU-V-W-X-Y-Z)

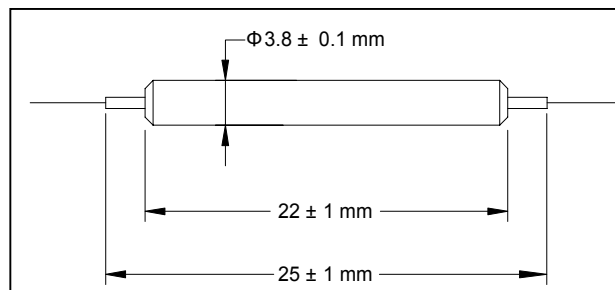
The Mini Polarization Insensitive Isolator series has compact package, low insertion loss, high isolation, high return loss and excellent environmental stability and reliability. Problems with demanding space and density requirement can be solved with this mini size isolator series.

A. Specifications

| Parameter | Single Stage | | Dual Stage | | Unit |
|---|--------------------|---------|------------|---------|------|
| | Grade P | Grade A | Grade P | Grade A | |
| Center Wavelength (λ_c) | 1310, 1480 or 1550 | | | | nm |
| Typ. Peak Isolation | 42 | 40 | 55 | 52 | dB |
| Min. Isolation, $\lambda_c \pm 10$ nm, 23 °C, all polarization states | 30 | 28 | 42 | 40 | dB |
| Typ. Insertion Loss, $\lambda_c \pm 10$ nm, 23 °C, all polarization states | 0.35 | 0.5 | 0.45 | 0.6 | dB |
| Max. Insertion Loss, $\lambda_c \pm 20$ nm, all temperature, all polarization | 0.5 | 0.7 | 0.65 | 0.9 | dB |
| Min. Return Loss (Input/Output) | 60/55 | 60/55 | 60/55 | 60/55 | dB |
| Max. Polarization Dependent Loss, 23 °C | 0.1 | 0.15 | 0.1 | 0.15 | dB |
| Max. Polarization Mode Dispersion | 0.20 | 0.25 | 0.05 | 0.07 | ps |
| Max. Optical Power (Continuous Wave) | 300 | | | | mW |
| Operating Temperature | -5 to +70 | | | | °C |
| Storage Temperature | -40 to +85 | | | | °C |

*IL is 0.3 dB higher, RL is 5 dB lower for each connector added.

B. Package Dimensions



C. Ordering Information

DL-MPI-T-UU-V-W-X-Y-Z

| | | | | |
|------------------|--------------------------|-------------------|------------------------------|-----------------|
| T: Stage | V: Grade | X: Connector Type | Y: Fiber Type (SMF-28) | Z: Fiber Length |
| 1 - Single stage | P - Premium | 1 - FC/UPC | B - 250 μ m bare fiber | 1 - 1.0 m |
| 2 - Dual stage | A - A grade | 2 - FC/APC | L - 900 μ m loose tube | S - Specify |
| | | 3 - SC/UPC | T - 900 μ m tight buffer | |
| UU: Wavelength | | 4 - SC/APC | S - Specify | |
| 31 - 1310 nm | | N - None | | |
| 48 - 1480 nm | | S - Specify | | |
| 55 - 1550 nm | W: PMD | | | |
| SS - Specify | 2 - Refer to above spec. | | | |