

1625nm Optical Isolator

FEATURES

- ▣ High Isolation
- ▣ Low Insertion Loss
- ▣ Epoxy-Free Optical Path
- ▣ High Reliability and Stability
- ▣ Low Profile Packaging

APPLICATIONS

- ▣ Fiber Optic Amplifiers
- ▣ Fiber Optic Instruments
- ▣ WDM Systems
- ▣ Transmitters and Fiber Lasers
- ▣ CATV Networks



SPECIFICATIONS

| Parameter | Unit | Single Stage | Dual Stage |
|------------------------------------|----------------------------|---|--------------|
| Center Wavelength (λ_c) | nm | 1625 | |
| Bandwidth | nm | +/-10 | |
| Isolation (23°C) | dB | ≥22 | ≥40 |
| Insertion Loss (23°C) | dB | ≤0.6 | ≤0.7 |
| Insertion Loss (0-50°C) | dB | ≤0.8 | ≤0.9 |
| Optical Return Loss (Input/Output) | dB | 55/50 | 55/50 |
| PDL | dB | ≤0.15 | |
| PMD | - | ≤0.25 | ≤0.10 |
| Fiber Type | - | SMF-28 Fiber or 10/130um DC Fiber (O) 12/130um DC Fiber (T) or 20/130um DC Fiber (Q) 25/250um DC Fiber (R) or 25/300um DC Fiber (G) | |
| Fiber Tensile Load | N | 5 | |
| Max. Optical Power (CW) | mW | 300 | |
| Operating Temperature | °C | 0~50 | |
| Storage Temperature | °C | -40~85 | |
| Package | Stainless Steel Tube (SST) | mm | Φ5.5xL35 |
| Dimension | Metal Box-M | mm | L120xW12xH10 |

Note: 1. Specifications are for device without connectors; Specifications may change without notice.
 2. To add connectors, IL is 0.3dB higher, RL is 5dB lower.
 3. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

ORDERING INFORMATION (PN)

| | | | | | | | | |
|--------------------------|---|----------------------------------|---|-------------------------------|---|--|--|--|
| FISO-NNNN | - | C | - | (C) | (C) | C | NN | -CC/CCC |
| <i>Center Wavelength</i> | | <i>Stage</i> | | <i>Package</i> | <i>Fiber Type</i> | <i>Fiber Sleeve</i> | <i>Fiber Length</i> | <i>Connector Type</i> |
| 1625-1625nm | | S= Single Stage D= Dual Stage | | M= Metal Box Blank for SST | O=10/130 DC Fiber T=12/130 DC Fiber G=25/300 DC Fiber Blank for SMF-28 Fiber | B= Bare Fiber L= Loose Tube 2= 2mm Cable 3= 3mm Cable | 05=0.5m 10=1.0m 15=1.5m 20=2.0m | N=Without Connector FC/APC=FC/APC Connector LC/PC=LC/PC Connector SC/UPC=SC/UPC Connector |