



Isolator/Filter Wavelength Division Multiplexer Hybrid 980/1550 nm (IWDM Series)

Rev 10

The 980/1550 IWDM series combines Filter WDM and isolator into a compact package to offer cost saving solution. This device is ideal for fiber amplifier application to combine signal and pump wavelengths with very stable isolation. It is designed according to Telcordia standard and capable of high power handling.

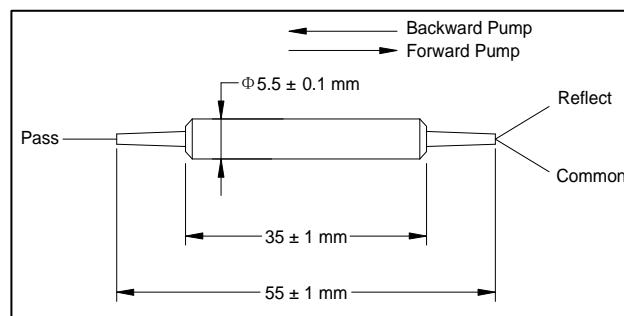
Specifications

| Parameter | Unit | Single Stage | Dual Stage | |
|--------------------------------------|--|--------------|------------|------|
| Pass Band | Signal Wavelength Range | 1525 - 1565 | | |
| | Max. Insertion Loss | 0.8 | 1.0 | |
| | Typ. Insertion Loss | 0.6 | 0.8 | |
| | Typ. Peak of Signal Isolation | 40 | 55 | |
| | Min. Signal Isolation (1550 ± 10 nm for single stage, 1550 ± 20 nm for dual stage, at 23 °C) | dB | 30 | 45 |
| | Max. Polarization Dependent Loss | dB | 0.1 | 0.15 |
| | Max. Polarization Mode Dispersion | ps | 0.25 | 0.05 |
| Reflection Band | Wavelength Range | 950 - 1010 | | |
| | Max. Insertion Loss | 0.5 | | |
| | Typ. Insertion Loss | 0.3 | | |
| | Max. Polarization Dependent Loss | 0.1 | | |
| Min. Return Loss | dB | 50 | | |
| Thermal Stability | dB/°C | 0.005 | | |
| Max. Optical Power (Continuous Wave) | mW | 300 | | |
| Max. Tensile Load | N | 5 | | |
| Fiber Type (Common and Pass Port) | | SMF-28 fiber | | |
| Fiber Type (Reflection Port) | | HI 1060 | | |
| Operating Temperature | °C | -5 to +70 | | |
| Storage Temperature | °C | -40 to +85 | | |

¹ Low PMD version is available. PMD < 0.05 ps

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

Package Dimensions



Ordering Information

IWDM-98-①-②-③-④-⑤-⑥

| | | | | |
|-------------------|-------------------------|-------------------|-----------------------|-----------------|
| ①: Pump Type | ③: PMD | ④: Connector Type | ⑤: Fiber Jacket | ⑥: Fiber Length |
| 1 - Forward pump | 1 - 0.05 ps max | 1 - FC/UPC | B - 250 μm bare fiber | 1 - 1.0 m |
| 2 - Backward pump | 2 - Refer to above spec | 2 - FC/APC | L - 900 μm loose tube | S - Specify |
| | | 3 - SC/UPC | S - Specify | |
| ②: Stage Type | | 4 - SC/APC | | |
| 1 - Single stage | | N - None | | |
| 2 - Dual stage | | S - Specify | | |