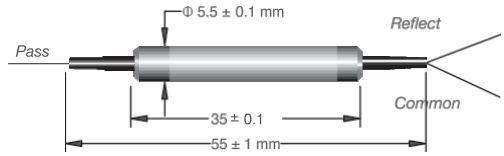
# FWDM

- High isolation
- Low Insertion Loss
- Wide Wavelength Operation
- Exceptionally Stable and Reliable




The Filter Wavelength Division Multiplexer series is based on environmentally stable thin film filter technology. The devices combine or separate light at different wavelength in a wide wavelength range. They offer very low insertion loss, low polarization dependence, high isolation and excellent environmental stability. High power handling capability can be achieved through unique pigtail processing and high quality AR coating. These components have been extensively used in EDFAs, Raman amplifiers, WDM networks and fiber optical instruments.

## SPECIFICATIONS*

| PARAMETERS | | VALUE | | | UNIT |
|---|---|---|---|---|---|
| Pass Band | Wavelength Range | 1270-1350 (1530-1600) | 1450-1490 (1530-1580) | 1500-1520 (1530-1570) | nm |
| | Typ. Insertion Loss | 0.4 | 0.4 | 0.5 | nm |
| | Max. Insertion Loss | 0.6 | 0.6 | 0.7 | dB |
| | Typ. Isolation | 35 | 30 | 35 | dB |
| | Min. Isolation | 30 | 25 | 30 | dB |
| Reflection Band | Wavelength Range | 1530-1600 (1270-1350) | 1530-1580 (1450-1490) | 1530-1570 (1500-1520) | nm |
| | Typ. Insertion Loss | 0.3 | | | dB |
| | Max. Insertion Loss | 0.5 | | | dB |
| | Typ. Isolation | 15 | | | dB |
| | Min. Isolation | 12 | | | dB |
| Min. Return Loss | | 50 | | | dB |
| Max. Polarization Dependent Loss | | 0.1 | | | dB |
| Typ. Polarization Dependent Loss | | 0.05 | | | dB |
| Thermal Stability | | 0.005 | | | dB/°C |
| Max. Optical Power | | 300 | | | mW |
| Max. Tensile Load | | 5 | | | N |
| Operating Temperature Range | | -5 to +70 | | | °C |
| Storage Temperature Range | | -40 to +85 | | | °C |

*Note: IL is 0.3 dB higher and RL is 5 dB lower for each connector added