

GREEN L BAND RED/BLUE PASS MICRO-OPTIC WDM

MWDMGLR/LB Series

Product Description

Oplink's Micro-Optic Wavelength Division Multiplexer (MWDM) is based on thin-film filter technology and patented athermal platform for optical device. This device offers flat and wide passband, low insertion loss, and high isolation, which make this device ideal for high-power Optical Amplification Systems and DWDM Network applications. Oplink MWDM devices are Bellcore GR-1221 qualification tested and complied with industry green initiatives such as Rohs and WEEE. All Oplink products are epoxy-free in the optical path.



Performance Specification

| MWDMGLR/LB Series | | Min | Typical | Max | Unit |
|---|-------------------------------|-------------------------------|---------|--------|------|
| Pass Channel Wavelength Range λ_1 | Type LR | 1589.0 | | 1603.0 | nm |
| | Type LB | 1570.0 | | 1584.0 | nm |
| Reflection Channel Wavelength Range λ_2 | Type LR | 1570.0 | | 1584.0 | nm |
| | Type LB | 1589.0 | | 1603.0 | nm |
| Insertion Loss * | Pass Channel @ λ_1 | | | 0.8 | dB |
| | Reflect Channel @ λ_2 | | | 0.5 | |
| Isolation | Reflect Channel @ λ_1 | 12 | | | dB |
| | Pass Channel @ λ_2 | 20 | | | |
| Passband Ripple | | | | 0.30 | dB |
| Directivity | | 50 | | | dB |
| Return Loss | | 50 | | | dB |
| Polarization Dependent Loss | | | | 0.1 | dB |
| Polarization Mode Dispersion | | | | 0.05 | ps |
| Maximum Power Handling | | | | 500 | mW |
| Fiber Type | | Corning SMF-28 | | | |
| Operating Temperature | | 0 to +70 | | | °C |
| Storage Temperature | | -40 to +85 | | | °C |
| Package Dimensions ** | 250 μ m Bare Fiber | P1: (ϕ) 5.5 x (L) 34.0 | | | mm |
| | 900 μ m Loose Tube | P2: (ϕ) 5.5 x (L) 40.0 | | | |

Note:

* Values are referenced without connector loss.

** The mechanical tolerance should be ± 0.2 mm on all package dimensions unless otherwise custom specified.

*** The maximum IL is under all states of polarization and within the full operating temperature and wavelength ranges specified.

Features

- ◆ Environmental Green Plan Compliance
- ◆ Wide Operating Wavelength Range
- ◆ Low Insertion Loss
- ◆ High Channel Isolation
- ◆ Ultra Flat Wide Passband
- ◆ Highly Stable & Reliable
- ◆ Epoxy-free Optical Path

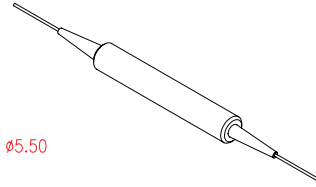
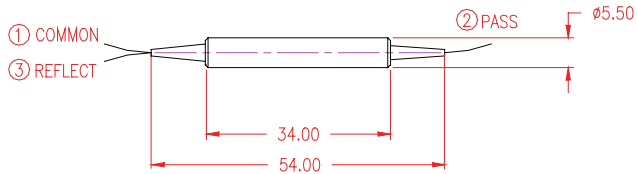
Applications

- ◆ Fiberoptic Amplifiers
- ◆ System Monitoring
- ◆ Fiberoptic Instruments
- ◆ Laboratory R&D

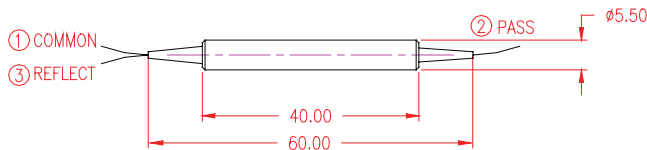
MWDMGLR/LB SERIES

Mechanical Drawing / Package Dimensions (dimension in mm)

P1: SMF-28 250 μm bare fiber

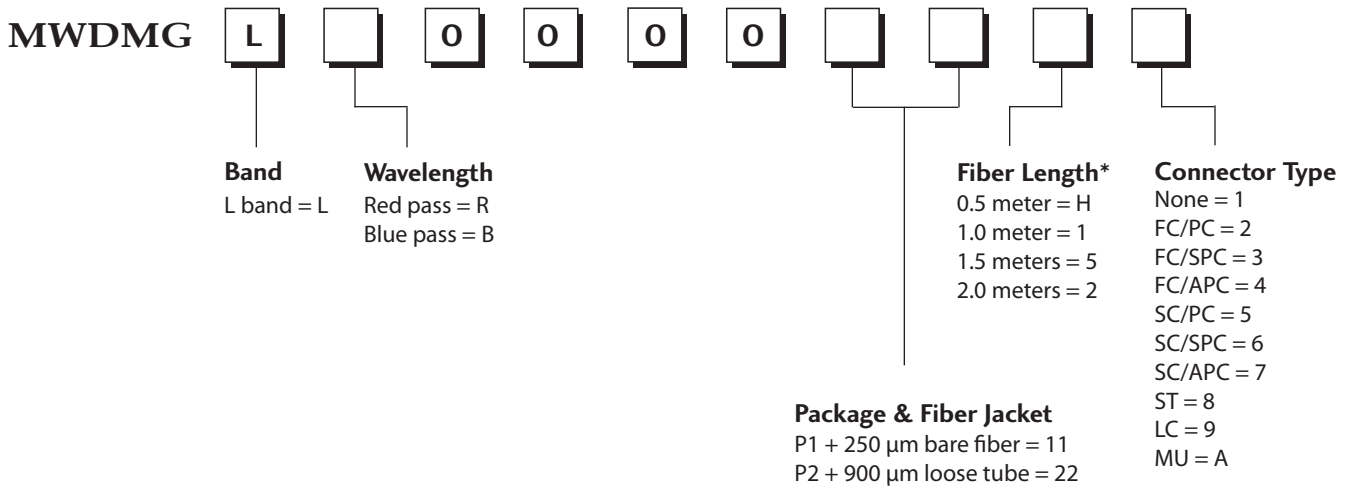


P2: 900 μm loose tube



Ordering Information

Oplink can provide a remarkable range of customized optical solutions. For detail, please contact Oplink's OEM design team or account manager for your requirements and ordering information (510) 933-7200.



* The tolerance of fiber length is +/-0.1m. 1 meter is standard. The lead-time for special fiber length will be longer.