

GREEN FTTX 1310/1490/1550 WDM (1x2)

MWDMGFTTX Series

Product Description

Oplink's FTTX 1310/1490/1550 WDM is based on patented athermal platform for optical device. This multiplexer features ultra low insertion loss, super thermal stability, and unparallel reliability. The technology is a lead-free packaging platform and no epoxy in the optical path. Green OADM is Telcordia GR-1221 and GR-1209 tested, qualified for uncontrolled environment applications and complied with industry green initiatives such as Rohs and WEEE.



Performance Specification

| MWDMGFTTX Series | | Min | Typical | Max | Unit |
|---|------------------------|-------------------------------|---------|------|------|
| Pass Channel Wavelength Range λ_p | | 1260 ~ 1360, 1480 ~ 1500 | | | nm |
| Reflection Channel Wavelength Range λ_R | | 1550 ~ 1560 | | | nm |
| Insertion Loss * | Pass Channel | | 0.7 | 0.80 | dB |
| | Reflect Channel | Standard | 0.5 | 0.60 | dB |
| | | High Isolation | 0.7 | 0.80 | |
| Isolation | Add/Drop @ λ_R | 40 | | | dB |
| | Express @ λ_P | Standard | 30 | | dB |
| | | High Isolation | 45 | | |
| Polarization Dependent Loss | | | | 0.20 | dB |
| Polarization Mode Dispersion | | | | 0.20 | ps |
| Pass Channel Ripple | | | | 0.5 | dB |
| Directivity | | 50 | | | dB |
| Return Loss | | 50 | | | dB |
| Operating Power | | | | 300 | 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
- ◆ Ultra-low Insertion Loss
- ◆ Narrow Down Distribution
- ◆ Super Thermal Stability
- ◆ High Channel Isolation
- ◆ High Reliability
- ◆ Epoxy-free Optical Path

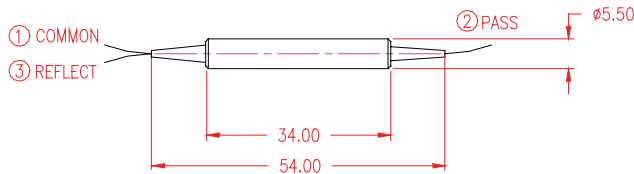
Applications

- ◆ WDM System for Metro/Access Market
- ◆ FTTX Application

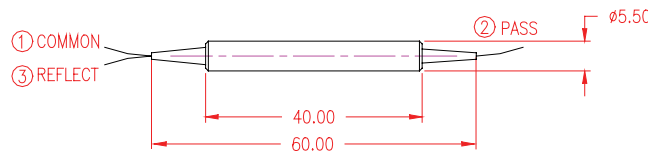
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Mechanical Drawing / Package Dimensions (dimension in mm)

P1: 250 μm bare fiber

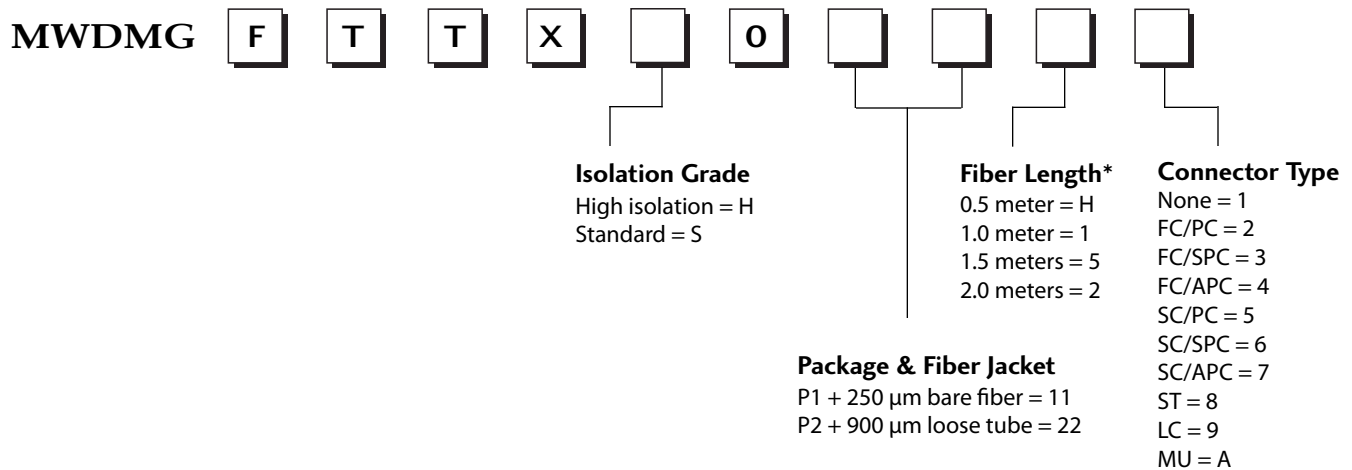


P2: 900 μm loose tube



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.