GREEN HIGH ISOLATION 1310/1550 NM MICRO-OPTIC WDM

HWDMG Series

Product Description

Oplink's High-Isolation Micro-Optic Wavelength Division Multiplexer (HWDM) is based on thin-film filter technology and metal bonding micro-optic packaging. This component is used to combine or separate 1310 and 1550nm band signal. The HWDM device offers a very flat and wide passband, low insertion loss, and much higher isolation than the MWDM device. This product is ideal for high-power Optical Amplification System and WDM Network applications. All Oplink products are epoxy-free in the optical path. Oplink HWDM devices are Bellcore GR-1221 qualification tested.



Performance Specification

HWDMG Series			Min	Max	Unit
Pass Channel Wavelength Range λ1		Type 1315	1260	1360	nm
		Type 1513	1520	1600	nm
Reflection Channel Wavelength Range λ2		Type 1315	1520	1600	nm
		Type 1513	1260	1360	nm
Insertion Loss *	Pass Channel @ λ1 Reflect Channel @ λ2			0.8 0.8	dB
Isolation	Reflect Channel @ λ1 Pass Channel @ λ2		45 45		dB
Passband Ripple				0.30	dB
Directivity			50		dB
Return Loss			50		dB
Polarization Dependent Loss				0.2	dB
Polarization Mode Dispersion				0.05	ps
Maximum Power Handling				500	mW
Operating Temperature			0 to +70		°C
Storage Temperature			-40 to +85		°C
Fiber Type			Corning SMF-28		
Package Dimensions **	250 μm Bare Fiber 900 μm Loose Tube		P1: (ø) 5.5 x (L) 34.0 P2: (ø) 5.5 x (L) 40.0		mm

Note:

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

- ♦ Bi-directional WDM Systems
- Uni-directional WDM Systems
- CATV Systems



^{*} Values are referenced without connector loss.

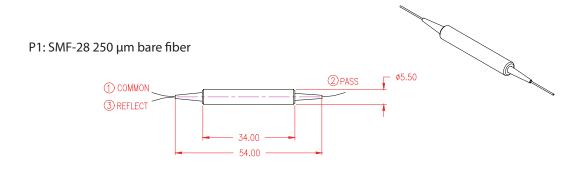
^{**} The mechanical tolerance should be +/-0.2 mm on all package dimensions unless otherwise custom specified.

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

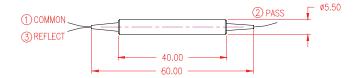


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Mechanical Drawing / Package Dimensions (dimension in mm)

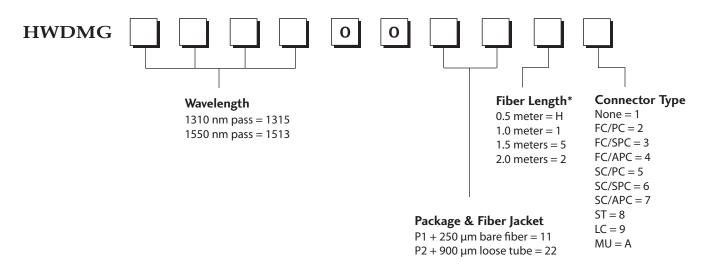


P2: 900 µm loose tube



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.