GREEN C BAND RED/BLUE PASS MICRO-OPTIC WDM

MWDMGCR/CB 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

MWDMGCR/CB Series			Min	Typical	Max	Unit
Pass Channel Wavelength Range λ1		Type CR	1547.4		1561.0	nm
		Type CB	1530.0		1543.2	nm
Reflection Channel Wavelength Range λ2		Type CR	1530.0		1543.2	nm
		Type CB	1547.4		1561.0	nm
Insertion Loss *	Pass Channel @ λ1 Reflect Channel @ λ2				0.8 0.5	dB
Isolation	Reflect Channel @ λ1 Pass Channel @ λ2		12 20			dB
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 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:
** 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

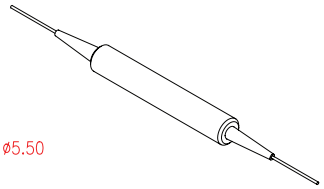
Applications

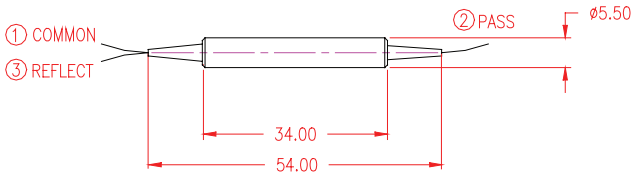
- Fiberoptic Amplifiers
- System Monitoring
- Fiberoptic Instruments
- Laboratory R&D

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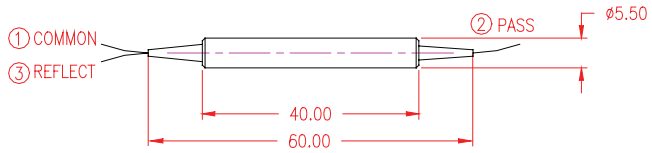
Mechanical Drawing / Package Dimensions (dimension in mm)

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.

MWDMG C □ 0 0 0 0 □ □ □ □

Band
C band = C

Wavelength
Red pass = R
Blue pass = B

Fiber Length*
0.5 meter = H
1.0 meter = 1
1.5 meters = 5
2.0 meters = 2

Connector Type
None = 1
FC/PC = 2
FC/SPC = 3
FC/APC = 4
SC/PC = 5
SC/SPC = 6
SC/APC = 7
ST = 8
LC = 9
MU = A

Package & Fiber Jacket
P1 + 250 µm bare fiber = 11
P2 + 900 µm loose tube = 22

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

46335 Landing Pkwy Fremont, CA 94538 Tel: (510) 933-7200 Fax: (510) 933-7300 Email: Sales@Oplink.com • www.oplink.com