

SINGLE CHANNEL CWDM OADM (1x2)

CWDMG 1x2 Series

Product Description

Oplink's single channel Coarse 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 CWDM is Telcordia GR-1221 and GR-1209 tested, qualified for uncontrolled environment applications and complied with industry green initiatives such as RoHS and WEEE.

Oplink can provide customized designs to meet specialized feature applications. Also, Oplink offers modular assemblies that integrate other components to form a full function module or subsystem.



Performance Specification

CWDMG Series	Min	Typical	Max	Unit
Operating Wavelength Range	1460~1620 or 1260~1620			nm
Center Wavelength λ_c	ITU Grid			nm
Channel Spacing	20			nm
Passband Bandwidth @ 0.5dB	$\lambda_c \pm 6.5$			nm
Insertion Loss ¹⁾ (Over all wavelength range and all temp, all SOP)	Pass Port	0.35	0.45	dB
	Reflect Port	0.3	0.35	
Polarization Dependent Loss (PDL)	0.10			dB
Polarization Mode Dispersion (PMD)	0.10			ps
Passband Ripple	0.20			dB
Adjacent Channel Band Isolation	30			dB
Non-adjacent Channel Band Isolation	40			dB
Return Loss	50			dB
Directivity	50			dB
Operating Power	500			mW
Operating Temperature	0 to +70			°C
Storage Temperature	-40 to +85			°C
Fiber Type	Corning SMF-28 or equivalent			
Package Dimensions ³⁾	250 μ m Bare Fiber	P1 (Φ)5.5 \pm 0.2 x (L)34.0 \pm 1.0		mm
	900 μ m loose tube	P2 (Φ)5.5 \pm 0.2 x (L)40.0 \pm 1.0		

Note:

[1] All spec excluding connectors

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

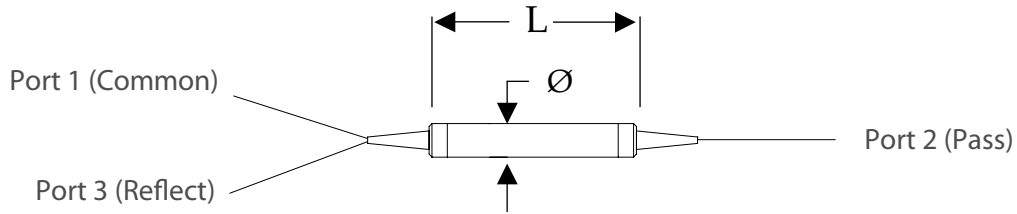
Features

- ◆ Environmental Green Plan Compliance
- ◆ Ultra-Low Insertion Loss
- ◆ Narrow Down Distribution
- ◆ Super Thermal Stability
- ◆ Highly Reliability
- ◆ High Channel Isolation
- ◆ Epoxy-free Optical Path

Applications

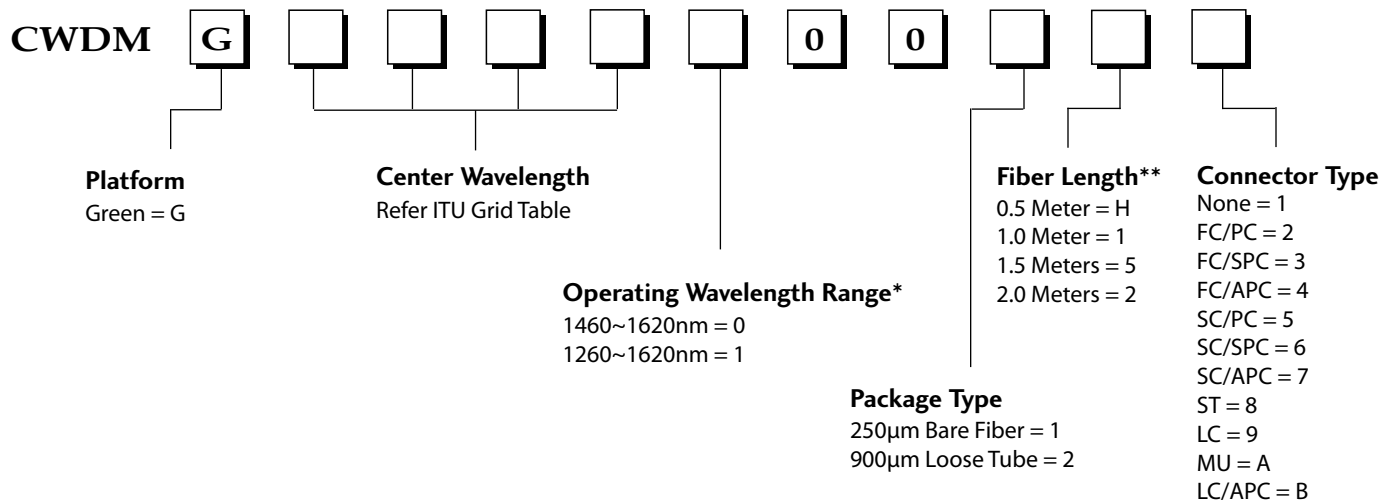
- ◆ WDM Systems For Metro/Access Market

Mechanical Drawing / Package Dimensions (dimension in mm)



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.



Center Wavelength Table (nm, ITU Grid):

1271	1471	1270	1470
1291	1491	1290	1490
1311	1511	1310	1510
1331	1531	1330	1530
1351	1551	1350	1550
1371	1571	1370	1570
1391	1591	1390	1590
1411	1611	1410	1610
1431		1430	
1451		1450	

* 1460~1620nm operating wavelength range is applicable for 1471~1611nm and 1470~1610nm channels only. 1260~1620nm operating wavelength range is applicable for all channels.

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