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RAYCORE

Q3-S157 V3.2E

Specification of CWDM  
MUX/DEMUX 1x4/1x8 for LGX  
Module

Part Number: AWDL-Cxxx-xx000-00



Coarse Wavelength Division Multiplexing (CWDM) is a type of optical wavelength management device that are based on proven ultra low-loss thin-film filter (TFF) technology. It features small size, high reliability, high extensibility, simultaneous transmission of multi-wavelength. CWDM has gained prevalence in multi-wavelength digital transport architectures because it enables the use of very low cost uncooled distributed feedback (DFB) laser transmitters. Moreover, their powering requirements are reduced and reliability is increased. Raycore provides whole series of 1xN CWDM products that are tailored for specific applications. All products meet GR-1209-CORE, GR-1221-CORE and ITU-T G.694.2 requirements.

### Features

- Low Insertion Loss
- High Isolation
- Low PDL
- Compact Design
- Good channel-to-channel uniformity
- Wide Operating Wavelength: From 1260nm to 1620nm
- Wide Operating Temperature: From -40°C to 85°C
- High Reliability and Stability

### Applications

- CWDM System
- PON Networks
- CATV Links

### Compliance

- Telcordia GR-1209-CORE-2001
- Telcordia GR-1221-CORE-1999
- RoHS



**Specifications: 1x4 & 1x8 CWDM Mux/Demux LGX Module**

Parameters		1x4	1x8
Center Wavelength (nm)		ITU, ITU+1	
Pass-Band (nm)		ITU±6.5	
Operating Wavelength (nm)		1260~1620	
Channel Space (nm)		20	
Fiber Type		SMF-28e or customer specified	
IL (dB)		2.0	2.8
Isolation (dB)	Adjacent Channel	30	
	Non-Adjacent Channel	50	
Ripple (dB)		0.4	0.5
PDL (dB)		0.2	
PMD (ps)		0.1	
RL (dB)		45	
Directivity (dB)		50	
Maximum Optical Power (mw)		500	
Operating Temperature (°C)		-40~85	
Storage Temperature (°C)		-40~85	
LGX Package		1 slot	2 slots



### Ordering Information

Part Number	Description
AWDL-CM4x-xx000-00	1x4 CWDM MUX for LGX Module
AWDL-CD4x-xx000-00	1x4 CWDM DEMUX for LGX Module
AWDL-CM8x-xx000-00	1x8 CWDM MUX for LGX Module
AWDL-CD8x-xx000-00	1x8 CWDM DEMUX for LGX Module

### AWDL-Cxx x - xx 000 -00

Option:           A    B

Option A: Connector Type (x)

1= SC/UPC, 2= SC/APC, 3= LC/UPC, 4= LC/APC, 7= SC/UPC, 8=SC/APC

Option B: CWDM Channel Wavelength (xx)

xx: ex: BJ show is 1470nm to 1610nm (x8 channel).

1: 1270nm	A: 1450nm
2: 1290nm	B: 1470nm
3: 1310nm	C: 1490nm
4: 1330nm	D: 1510nm
5: 1350nm	E: 1530nm
6: 1370nm	F: 1550nm
7: 1390nm	G: 1570nm
8: 1410nm	H: 1590nm
9: 1430nm	J: 1610nm

For example:

For 1x4 CWDM > xx (14): 1270nm/1290nm/1310nm/1330nm

For 1x4 CWDM > xx (FJ): 1550nm/1570nm/1590nm/1610nm

For 1x4 CWDM > xx (XX): Customer specified

For 1x8 CWDM > xx (18): 1270nm/1290nm/1310nm/1330nm/1350nm/1370nm/1390nm/1410nm

For 1x8 CWDM > xx (BJ): 1470nm/1490nm/1510nm/1530nm/1550nm/1570nm/1590nm/1610nm

For 1x8 CWDM > xx (XX): Customer specified

