



Double-width LGX 118 package shown

## Coarse WDM Modules (CWDM)

AFL's Coarse WDM modules are designed using proven thin-film filter technology providing high isolation, 20 nm channel separation and a high level of thermal stability. CWDM modules are available in 2, 4, 8, and 16 channel configurations and are factory assembled in a thin cassette or rugged LGX® cassette with industry standard connector options to meet varying system requirements. An optional 1310 nm Mux/Demux Upgrade Port is available to allow seamless integration of legacy voice, video, and data services.

### Features

- 20 nm channel spacing
- 2, 4, 8, and 16 channel configurations
- Most industry standard connectors
- Low insertion loss
- High isolation
- Custom configurations upon request

### Applications

- CATV Systems
- Sensor Systems
- 10G Ethernet Systems
- Metro Optical Networks
- Metro Access Networks

## Specifications

PARAMETER	VALUE			
	2	4	8	16
Ports	2	4	8	16
Center Wavelength	1271-1611 nm			
Passband @ 0.5 dB	> 14 nm			
Passband	± 6.5 nm			
Passband Flatness	< 0.5 dB			
Insertion Loss (Typ.)	1.4 dB	1.6 dB	1.8 dB	4.3 dB
Insertion Loss (Max.)	1.8 dB	2.0 dB	2.5 dB	5.0 dB
Adjacent Channel Isolation	> 30 dB			
Non-Adjacent Channel Isolation	> 45 dB			
Wavelength Thermal Stability	< 0.002 nm/°C			
IL Thermal Stability	< 0.005 dB/°C	< 0.005 dB/°C	< 0.007 dB/°C	< 0.008 dB/°C
Return Loss	> 45 dB			
PMD	< 0.10 ps	< 0.10 ps	< 0.15 ps	< 0.15 ps
PDL	< 0.10 dB	< 0.15 dB	< 0.20 dB	< 0.25 dB
Directivity	> 50 dB			
LGX 118 Package	Single-width	Single-width	Double-width	Triple-width
Thin Cassette Package	88.9 x 50.8 x 8.3 mm	120 x 80 x 13 mm	130 x 87 x 13 mm	150 x 115 x 13 mm
Options	2% Tap, 1310 Upgrade			
1310 Channel Wavelength	1260-1360 nm			
1310 Channel Isolation	40 dB minimum			
1310 Channel Insertion Loss	1.3 dB maximum			

\* Includes Connectors

*continued*  
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## Coarse WDM Modules (CWDM)

### Ordering Information

CWDM	04	5	1271	1331	B	ASC	ISP
	<b>Channel Count</b>	<b>Package/Pigtail</b>	<b>Start Wavelength (nm)</b>	<b>End Wavelength (nm)</b>	<b>Options</b>	<b>Connectors</b>	
	02 = 2 Channel 04 = 4 Channel 08 = 8 Channel 16 = 16 Channel	1 = Thin Cassette, 1 Meter Pigtail 3 = Thin Cassette, 3 Meter Pigtail 5 = Thin Cassette, 5 Meter Pigtail L = LGX 118	1271 1291 1311 1331 1351 1371 1391 1411 1431 1451 1471 1491 1511 1531 1551 1571 1591	1291 1311 1331 1351 1371 1391 1411 1431 1451 1471 1491 1511 1531 1551 1571 1591 1611	U = 1310 Upgrade Port T = 2% Tap Port X = No Option B = 1310 Upgrade Port and 2% Tap Port	ASC = SC/APC USC = SC/UPC ALC = LC/APC ULC = LC/UPC X = No connectors	

### Qualifications

GOVERNING BODY	STANDARD CODE	COMPONENT
Telcordia	Compliant	Cable

### Temperature Specifications

TEMPERATURE RANGE	
Operation Temperature	-5°C to +65°C
Storage Temperature	-40°C to +85°C

Contact AFL for further details.