

Features:

- Low Insertion Loss
- High Isolation
- Low PDL
- High Reliability

Applications:

- CWDM/DWDM System
- PON Networks
- CATV Links



8 Channel CWDM / 8 Channel DWDM

Combined	ILMAX	Typical
	6.0dB	4.5 – 5.0dB

Parameters	1 Channel	4 Channel	8 Channel	16 Channel
Center Wavelengths (nm)	ITU, ITU+1			
Passband (nm)	ITU ±6.5			
Channel Wavelength (nm)	1270 – 1610			
Channel Space (nm)	20			
Fiber Type	ITU-T G657B			
ILMAX	1.0	1.8	2.8	4.5
Isolation (dB) / Adjacent	30			
Isolation (dB) / Non-Adjacent	40			
Ripple (dB)	0.3			
PDL (dB)	0.2			
PMD (ps)	0.1			
RL (dB)	45			
Directivity (dB)	50			
Maximum Optical Power (mW)	500			
Operating Temperature	-10~85°C			
Storage Temperature	-40~85°C			

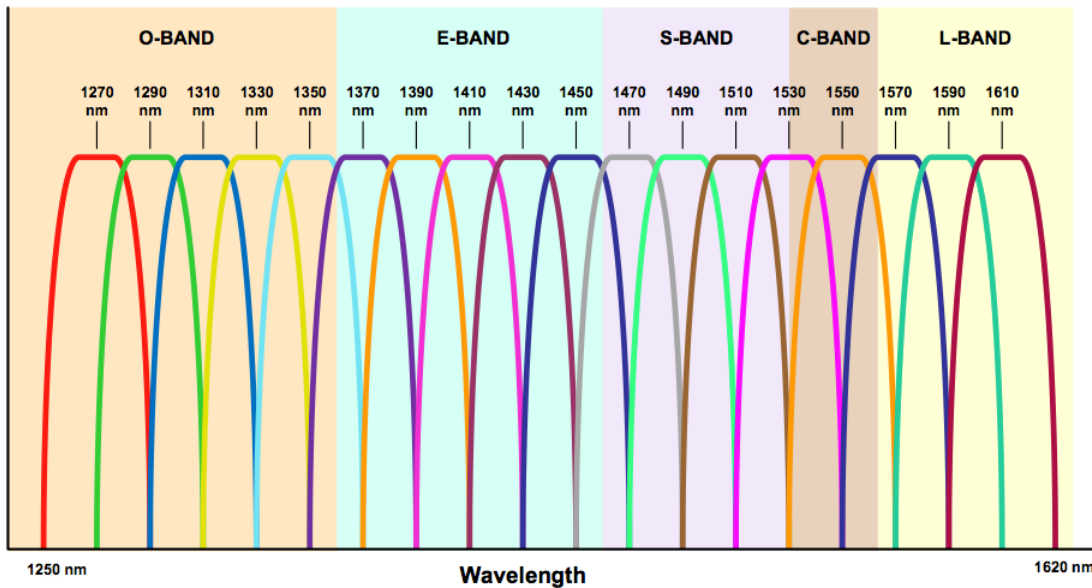
Notes:

1. Specified without Connectors
2. Add an additional 0.2dB loss per connector

Center Wavelengths	
1270	1450
1290	1470
1310	1490
1330	1510
1350	1530
1370	1550
1390	1570
1410	1590
1430	1610

Available Packages Include: LGX, 19 Inch Rackmount, Field Modules, Custom Packaging upon request.

CWDM Wavelength Grid as Specified by ITU-T G694.2



100 GHz DWDM Specifications				
Channel Wavelength	Ref. ITU Grid			
Channel Spacing	100 GHz (0.8nm)			
Channel Passband (nm) @ - 0.5dB	0.3			
Number of Channels	2	4	8	16
Add/Drop Channel Insertion Loss (dB)*	< = 1.5	< = 2.1	<=3.0	<=4.0
Express Channel Insertion Loss (dB)*	< = 0.7	< = 1.2	< = 2.5	< = 3.5
Return Loss (dB)	> = 45			
Adjacent Channel Isolation (dB)	> = 25 (DeMux)			
Non-adjacent Channel Isolation (dB)	> = 40			
Wavelength Temperature Stability (nm/ ° C)	< = 0.002			
Insertion Loss Thermal Stability dB/ ° C	< = 0.005			
Channel Uniformity (dB)	< = 1.5			
Polarization Dependent Loss (dB)	< = 0.2			
Maximum Power Handling (mW)	250			
Operating Temperature (° C)	0 to 65			
Storage Temperature (° C)	-40 to 85			
*Note: Insertion Loss values do not include connector losses.				

DWDM Channel Plan
21, 22, 23, 43, 44, 46, 47, 48

CWDM/DWDM 100 GHz LGX Module Single Fiber

Part Number	Description	Connector
FCD-1000	Passive CWDM/DWDM, mux, 8 CWDM, 8 100 GHz DWDM channels, single fiber, LGX, protocol independent.	LC
FCD-1010	Passive CWDM, DWDM demux, 8 CWDM, 8 100 GHz DWDM channels, single fiber, LGX, protocol independent.	LC

CWDM/DWDM +1310 100GHz LGX Module Single Fiber

Part Number	Description	Connector
FCD-1015	Passive CWDM, DWDM Mux/Demux, 1x8 CWDM +1310, 2 100 GHz DWDM Channels 43,46, single fiber, LGX, protocol independent.	LC

CWDM/DWDM +1310 100 GHz LGX Module Two Fiber

Part Number	Description	Connector
FCD-1020	Passive CWDM, DWDM Mux/Demux, 1x4 CWDM +1310, 2 100 GHz DWDM Channels 43,46, two fiber, LGX, protocol independent.	LC