Coarse Wavelength Division Multiplexer (4/8/16/18ch)

ACP's Coarse wavelength division multiplexer (CWDM) utilizes thin film coating technology and proprietary design of non-flux metal bonding micro optics packaging. It provides low insertion loss, high channel isolation, wide pass band, low temperature sensitivity and epoxy free optical path.

PERFORMANCE SPECIFICATIONS

Parameter	Specifications			
	Mux/Demux			
Operating Wavelength	1270 ~ 1610 nm			
Center Wavelength (CWL)	1270, 1290, ...1610nm or 1271, 1291, ...1611nm			
Center Wavelength (CWL) Accuracy	±0.5nm			
Minimum Channel Spacing	20nm			
Channel Passband (@-0.5dB bandwidth)	≥ 13nm			
Number of Channels	4	8	16	18
Insertion Loss (Channel ports)	≤ 1.4dB	≤ 2.2dB	≤ 3.5dB	≤ 4.0dB
Insertion Loss (UPG port)	≤ 1.3dB[1)]	≤ 2.0dB[1)]	≤ 2.6dB[1)]	NA[2)]
Channel Uniformity	≤ 0.6dB	≤ 1.0dB	≤ 1.0dB	≤ 1.0dB
Channel Ripple	≤ 0.3dB	≤ 0.3dB	≤ 0.5dB	≤ 0.5dB
1% TAP Port Loss	20.4dB			
Channel Isolation @Add/Drop (Demux only)	≥ 30dB (Adjacent) ≥ 40dB (Non-adjacent)			
Insertion Loss Temperature Sensitivity	≤ 0.003dB/°C			
Wavelength Temperature Shifting	≤ 0.002nm/°C			
Polarization Dependent Loss	≤ 0.10dB			
Polarization Mode Dispersion	≤ 0.10ps			
Directivity	≥ 50dB			
Return Loss	≥ 45dB			
Optical Power	≤ 300mW			
Operating Temperature	-20 to +70°C (Extended temperatures are also available upon request)			
Storage Temperature	- 40 to +85°C			
Package Dimensions (LxWxH)	S= 89x51x8.0mm case (4 Ch) F= 96x78x8mm case (4/8 Ch) G=96x78x13mm case (16/18 Ch) L1=Single LGX Box (4/8 Ch, Maximum 16 Ch with LC) L2=Double LGX Box R1=19" Rack (1RU)			

FEATURES

- Low Insertion Loss
- Wide Pass Band
- High Channel Isolation
- High Stability and Reliability
- Epoxy Free Optical Path

APPLICATION

- Line Monitoring
- WDM Network
- Telecommunication
- Cellular Application
- Fiber Optical Amplifier
- Access Network

Note:

1) UPG: port upgrade for future expansion.

2) No upgrade port at 18 channels.

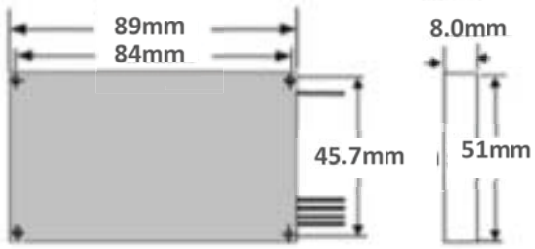
All values referenced are without connector.

email: sales@acphotonics.com tel: 408.986.9838 www.acphotonics.com

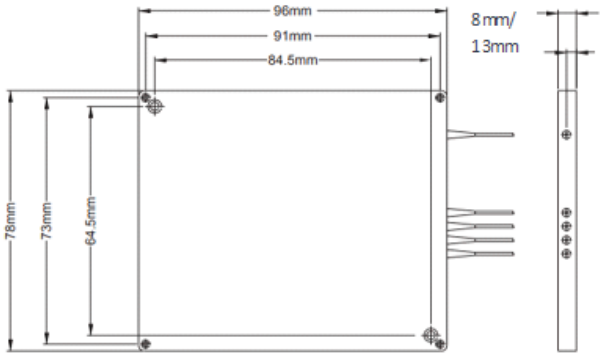
Coarse Wavelength Division Multiplexer (4/8/16/18)

MECHANICAL DIMENSIONS

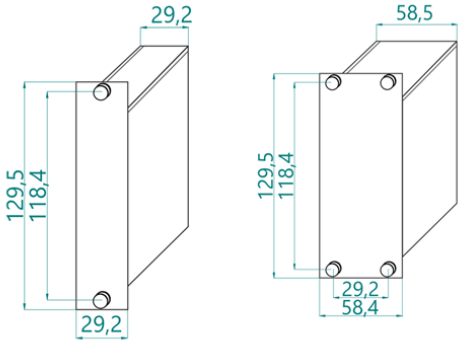
S package:



F/G package:

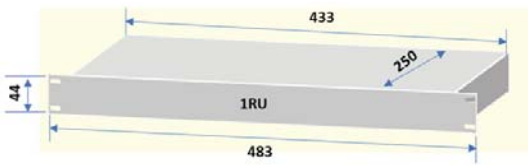


Single LGX Box



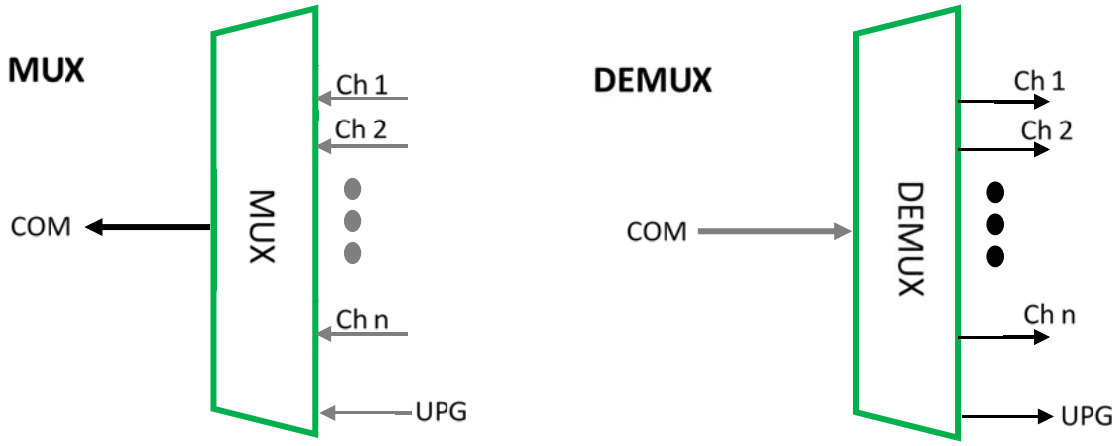
Double LGX Box

19" Rack:



Coarse Wavelength Division Multiplexer (4/8/16/18ch)

CHANNEL CONFIGURATIONS



ORDERING INFORMATION

										In	Out	
CWDM	Channel Spacing*	Number of Channels	Configuration	1st Channel Wavelength	Package	Fiber Type**	Fiber Length***	Pigtail Style	Connector	Option		
	1=10nm 2=20nm 4=4nm	04=4 Channels 08=8 Channels • • • 18=18 Channels	M=Mux D=Demux	270= 1270 nm 271=1271 nm • • • 610 = 1610nm 611 = 1611nm	S=S package F= F package G= G package L1=Single LGX L2=Double LGX R1=19"1RU	2=SMF-28 Ultra (G.657.A1) 3=ClearCurve ZBL(G.657.B3)	None=L1,L2&R1 Package 05=0.5m 10=1.0m · · · 20=2.0m	None=L1,L2&R1 Package 1=Bare fiber 2=900um loose tube 3=3mm jacket 4=2mm jacket 5=1.6mm jacket	0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC/UPC 7=LC/APC	None=Standard U0=UPG U1=1%+UPG		

*custom order for 10nm and 4nm channel spacing.

**1=SMF-28(G.652) is available upon request.

***Other length is available upon request, However, 900µm loose tube is only up to 2m.