

Coarse Wavelength Division Multiplexer & DeMultiplexer (CWDM Mux DeMux)

Features

- ✓ Low Insertion Loss (IL)
- ✓ High isolation
- ✓ Low Polarization Dependent Loss (PDL)
- ✓ Available in 2 to 18 channels with compact design
- ✓ Good channel-to-channel uniformity
- ✓ Wide operating wavelength range
- ✓ High reliability and high stability
- ✓ Telcordia GR-1209-CORE-2001 compliant
- ✓ Telcordia GR-1221-CORE-1999 compliant
- ✓ ITU-T G.694.2 compliant
- ✓ RoHS-6 compliant (lead free)



Applications

- ✓ CWDM Networks

Description

The Gigalight Coarse Wavelength Division Multiplexer & DeMultiplexer (CWDM Mux DeMux) is designed for multi-wavelength CWDM network applications. It is based on the Thin Film Filter (TFF) technology and operates at 20nm channel spacing ITU Grid CWDM wavelengths from 1270nm to 1610nm. Gigalight provides a series of customized CWDM Mux DeMux within plastic ABS box, metal LGX box, or rack mount to meet different requirements on Port Configuration (2 to 18 channels, 1310nm/upgrade/monitoring ports available), Operating Wavelength, Package Type, Fiber Type, Fiber Length, Input Connector, and Output Connector.

Specifications

Parameters	Channel Options				
	1x2	1x4	1x8	1x16	1x18
Port Configuration	1x2	1x4	1x8	1x16	1x18
Center Wavelength (nm)	1270 to 1610				
Operating Wavelength (nm)	1260 to 1620				
Channel Space (nm)	20				
Channel Passband @0.5dB (nm)	ITU±6.5				
Channels IL (dB)	< 1.2	< 1.8	< 3.0	< 3.4	< 3.7
Link IL (Mux+Demux) (dB)	< 2.1	< 2.7	< 3.9	< 4.6	< 5.3
Adjacent Channels Isolation (dB)	> 30				
Non-Adjacent Isolation (dB)	> 45				
Directivity (dB)	> 50				
Return Loss (dB)	> 45				
Ripple (dB)	< 0.5				
PDL (dB)	< 0.2				
PMD (ps)	< 0.1				

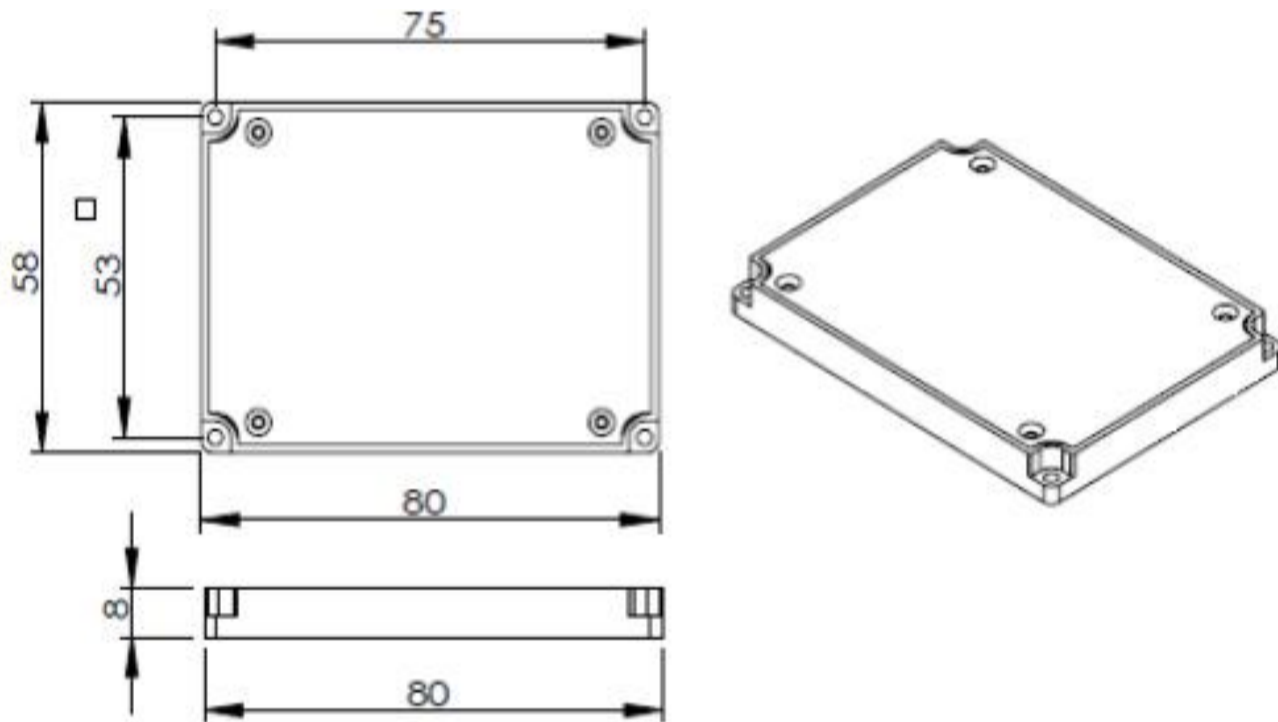
Maximum Optical Power (mw)	300
Operating Temperature (°C)	-5 to +75
Storage Temperature (°C)	-40 to +85
Package (mm) (L×W×H)	ABS Box: 80×58×8, 100×80×10, 120×80×18, 140×115×18 LGX Box: standard, 2 in 1, 4 in 1 19-inch 1U Rack Mount: standard

Notes:

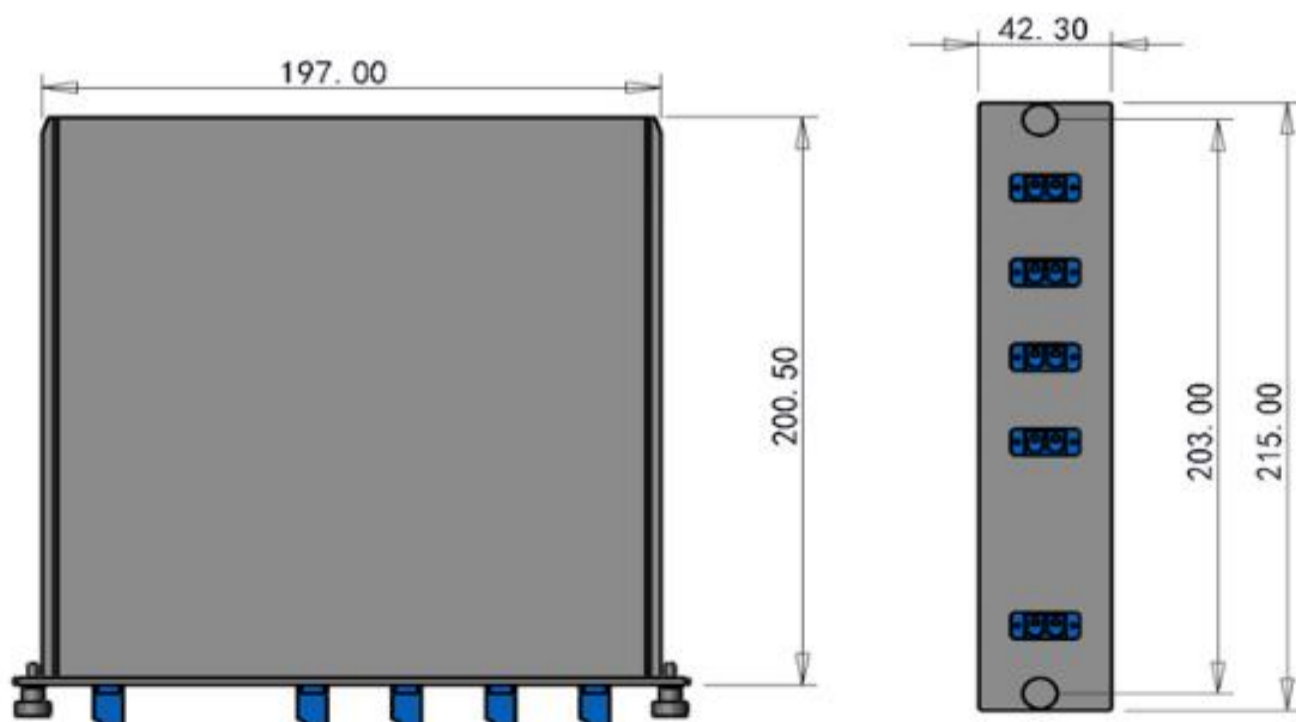
1. All specifications are based on the devices with connectors, and guaranteed over wavelength and temperature.
2. Fiber type is G657A.
3. An additional 0.3dB loss ought to be added per adapter for LGX box and rack mount.

Mechanical Dimensions

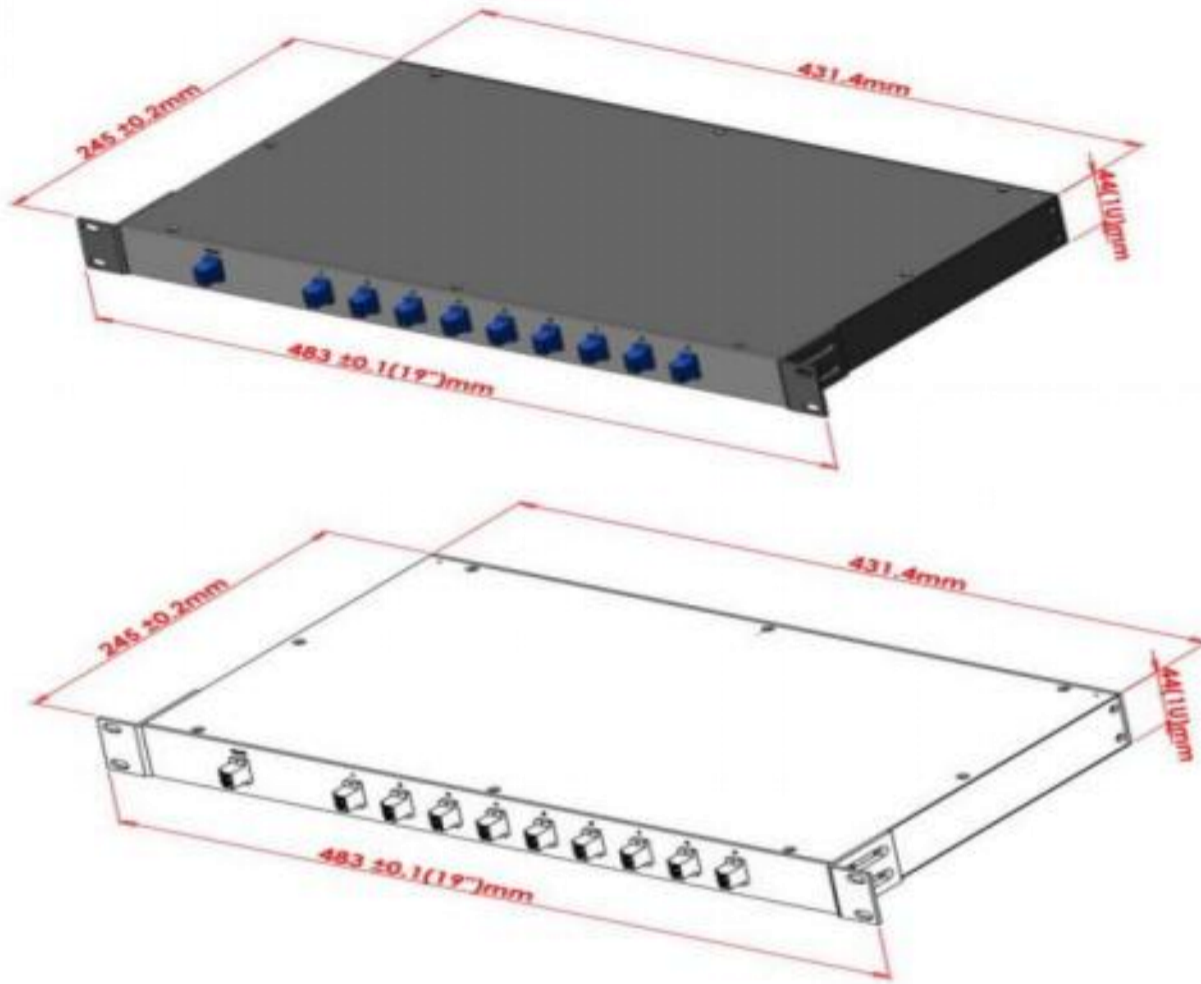
ABS Box (PX: 80×58×8):



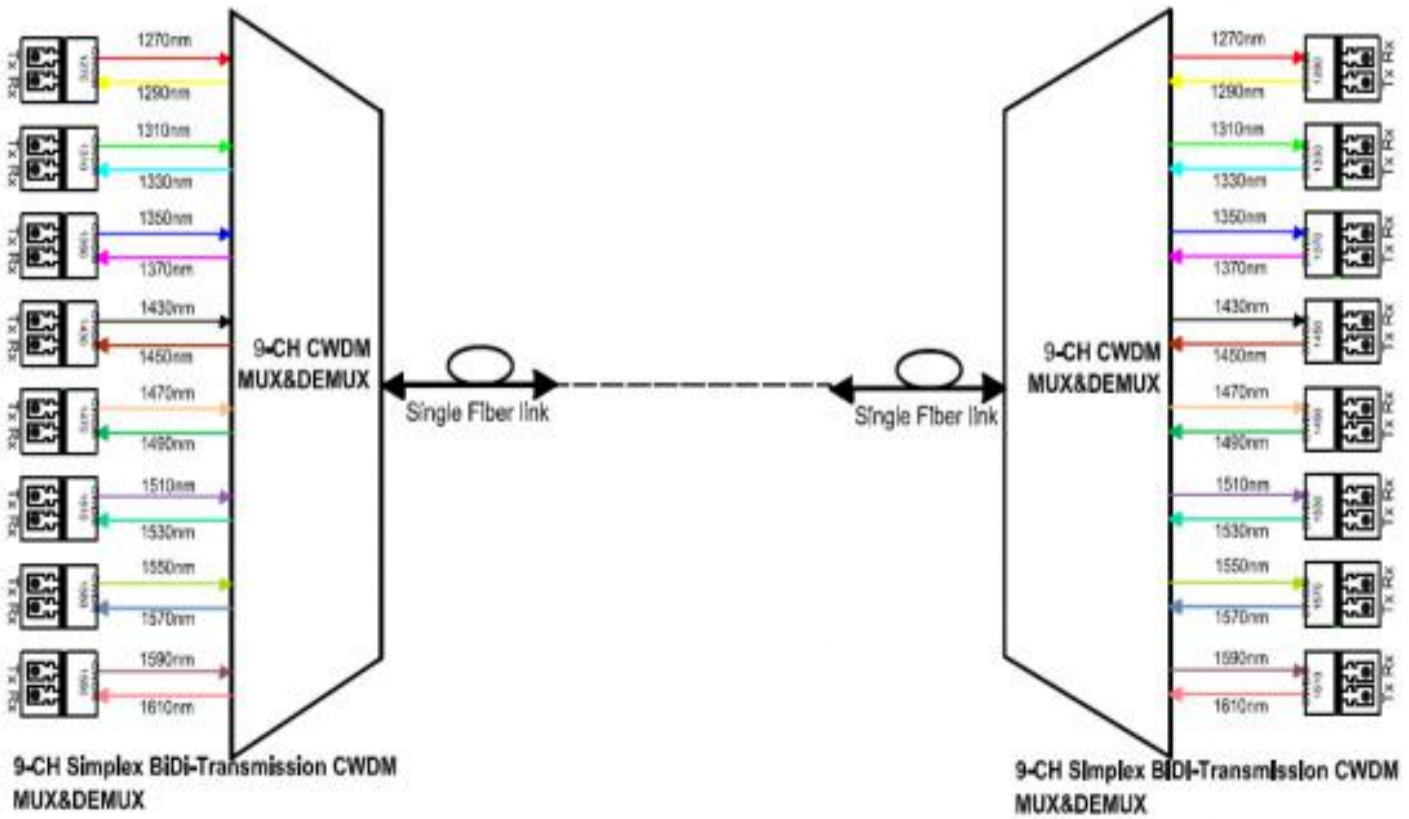
LGX Box (2 in 1):



19-inch 1U Rack Mount:



Structure Diagram



Ordering Information

GWM-xxQ	X	XX	XX	X	XX-	X	X
	Mux/DeMux Type	Initial Wavelength	Package Type	Fiber Type	Fiber Length	Input Connector	Output Connector
Channel Options xx: 02=2CH 04=4CH ... 18=18CH	M=Mux	27=1270	PX=80×58×8 ABS Box	B=250um bare fiber	10=1.0m	0=None	0=None
	D=DeMux	29=1290	PS=100×80×10 ABS Box	09=0.9mm loose tube	15=1.5m	1=FC/UPC	1=FC/UPC
	1=Mux with 1310nm port	31=1310	PM=120×80×18 ABS Box	20=2.0mm loose tube	20=2.0m	2=FC/APC	2=FC/APC
	2=DeMux with 1310nm port	...	PL=140×115×18 ABS Box		25=2.5m	3=SC/UPC	3=SC/UPC
	3=Mux with UPG port	51=1510	LX=Standard LGX Box		...	4=SC/APC	4=SC/APC
	4=DeMux with UPG port	53=1530	21=2 in 1 LGX Box			5=LC/UPC	5=LC/UPC
	5=Mux with 1310nm & UPG ports	55=1550	41=4 in 1 LGX Box			6=LC/APC	6=LC/APC
	6=DeMux with 1310nm & UPG ports	57=1570	19=19-in 1U Rack Mount				
	7=Mux with 1310nm & MON ports	59=1590					
	8=DeMux with 1310nm & MON ports	61=1610					

Notes :

If there is a demand for orders that are different from those described above, please contact Gigalight sales.

E-mail: sales@gigalight.com

Official Site: www.gigalight.com