

## 2x4CH Compact Coarse Wavelength Division Multiplexer (CCWDM)

### Features

- ✓ Low Insertion Loss (IL)
- ✓ High isolation
- ✓ Low Polarization Dependent Loss (PDL)
- ✓ 2x4 channels CCWDM with super 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 2x4CH Compact Coarse Wavelength Division Multiplexer (CCWDM) is a dual 4-channel CWDM module with super compact package (equivalent to the integration of two 4CH CCWDM in one module) designed for cost-effective 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 2x4CH CCWDM within metal box to meet different requirements on Port Configuration (1310nm and upgrade ports available), Operating Wavelength, Fiber Type, Fiber Length, Input Connector, and Output Connector.

### Specifications

Parameters	2x4CH CCWDM <sup>1</sup>
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 Insertion Loss (dB) <sup>[2]</sup>	< 1.4
Adjacent Channels Isolation (dB)	> 30
Non-Adjacent Isolation (dB)	> 40
Directivity (dB)	> 50
Return Loss (dB)	> 45
Ripple (dB)	< 0.4
Polarization Dependent Loss (dB)	< 0.2
Polarization Mode Dispersion (ps)	< 0.1
Maximum Optical Power (mw)	300

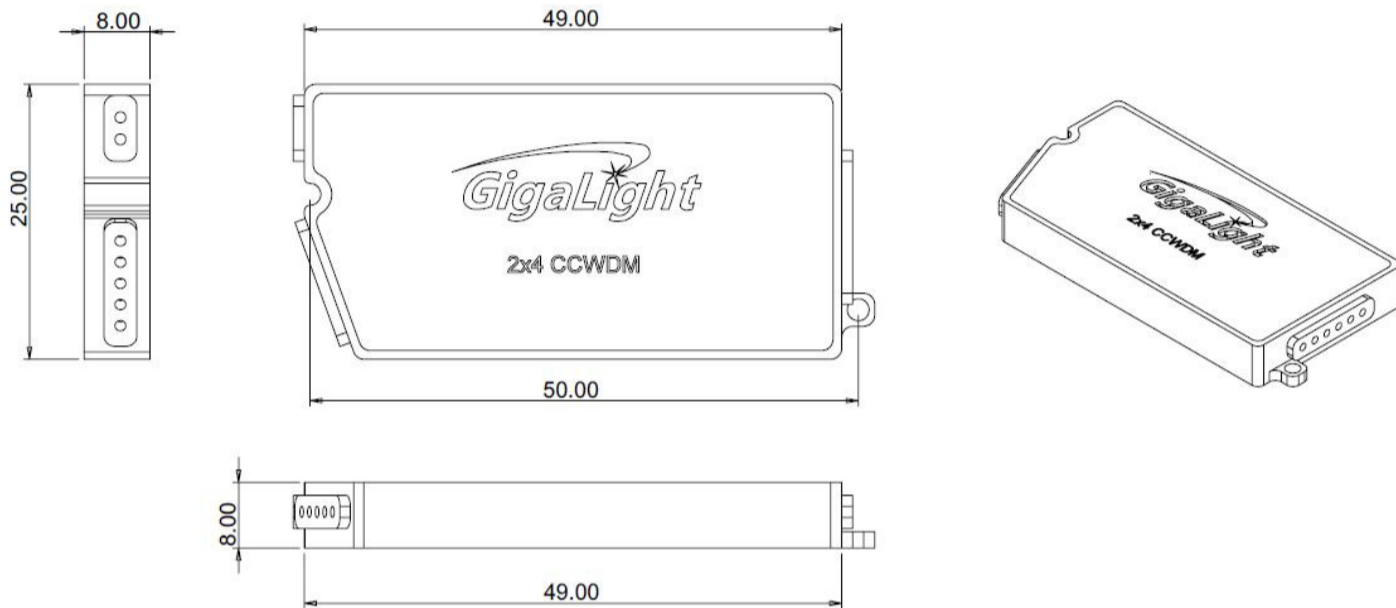
Operating Temperature (°C)	-5 to +75
Storage Temperature (°C)	-40 to +85
Package (mm) (L×W×H)	A3 Metal Box: 49×25×8

**Notes:**

1. All specifications are based on the devices with connectors, and guaranteed over wavelength and temperature. Fiber type is G657A1.
2. An additional 0.3dB loss ought to be added per adapter.

**Mechanical Dimensions**

A3 Metal Box (49×25×8):



**Ordering Information**

GCC-24Q	x	xx	A3	x	xx-	x	x
<b>2x4CH CCWDM</b>	<b>Mux/DeMux Type<sup>1</sup></b>	<b>Initial Wavelength</b>	<b>Package Type<sup>2</sup></b>	<b>Fiber Type</b>	<b>Fiber Length</b>	<b>Input Connector</b>	<b>Output Connector</b>
	M=Mux	27=1270	A3=49×25×8 Metal Box	B=250um bare fiber	10=1.0m	0=None	0=None
	D=DeMux	29=1290		09=0.9mm loose tube	15=1.5m	1=FC/UPC	1=FC/UPC
	1=Mux with 1310nm port	31=1310		20=2.0mm loose tube	20=2.0m	2=FC/APC	2=FC/APC
	2=DeMux with 1310nm port	...		30=3.0mm loose tube	25=2.5m	3=SC/UPC	3=SC/UPC
	3=Mux with UPG port	55=1550			...	4=SC/APC	4=SC/APC
	4=DeMux with UPG port					5=LC/UPC	5=LC/UPC
	5=Mux with 1310nm & UPG ports					6=LC/APC	6=LC/APC
	6=DeMux with 1310nm & UPG ports						

**Notes:**

1. The 1310 in the “Mux/DeMux Type” is 1310±50nm;
2. Other package types such as LGX box and 19-inch 1U rack mount can be customized.

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

E-mail: [sales@gigalight.com](mailto:sales@gigalight.com)  
 Official Site: [www.gigalight.com](http://www.gigalight.com)