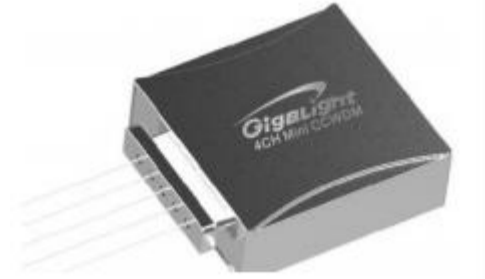


Mini 4CH Compact Coarse Wavelength Division Multiplexer (CCWDM)

Features

- ✓ Low Insertion Loss (IL)
- ✓ High isolation
- ✓ Low Polarization Dependent Loss (PDL)
- ✓ 4 channels Mini 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 Mini 4CH Compact Coarse Wavelength Division Multiplexer (CCWDM) is designed for multi-wavelength CWDM network applications. It is based on the Thin Film Filter (TFF) technology and free-space technology platform. It operates at 4 channels 20nm channel spacing ITU Grid CWDM wavelengths from 1270nm to 1610nm. It is ideal for functioning with inexpensive, uncooled lasers. With up to 4 low dispersion channels, it is a high capacity, low cost product for 40G/100G, CATV, and metro/access network applications. Gigalight provides a series of customized Mini 4CH 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	Mini 4CH CCWDM ¹
Center Wavelength (nm)	1270 to 1610
Operating Wavelength (nm)	1260 to 1620
Channel Space (nm)	20
Channel Passband @0.5dB (nm)	ITU±6.5
Channel Insertion Loss (dB) ^[2]	< 1.5
Adjacent Channels Isolation (dB)	> 30
Non-Adjacent Isolation (dB)	> 40
Directivity (dB)	> 50
Return Loss (dB)	> 45
Ripple (dB)	< 0.3
Polarization Dependent Loss (dB)	< 0.2
Polarization Mode Dispersion (ps)	< 0.1

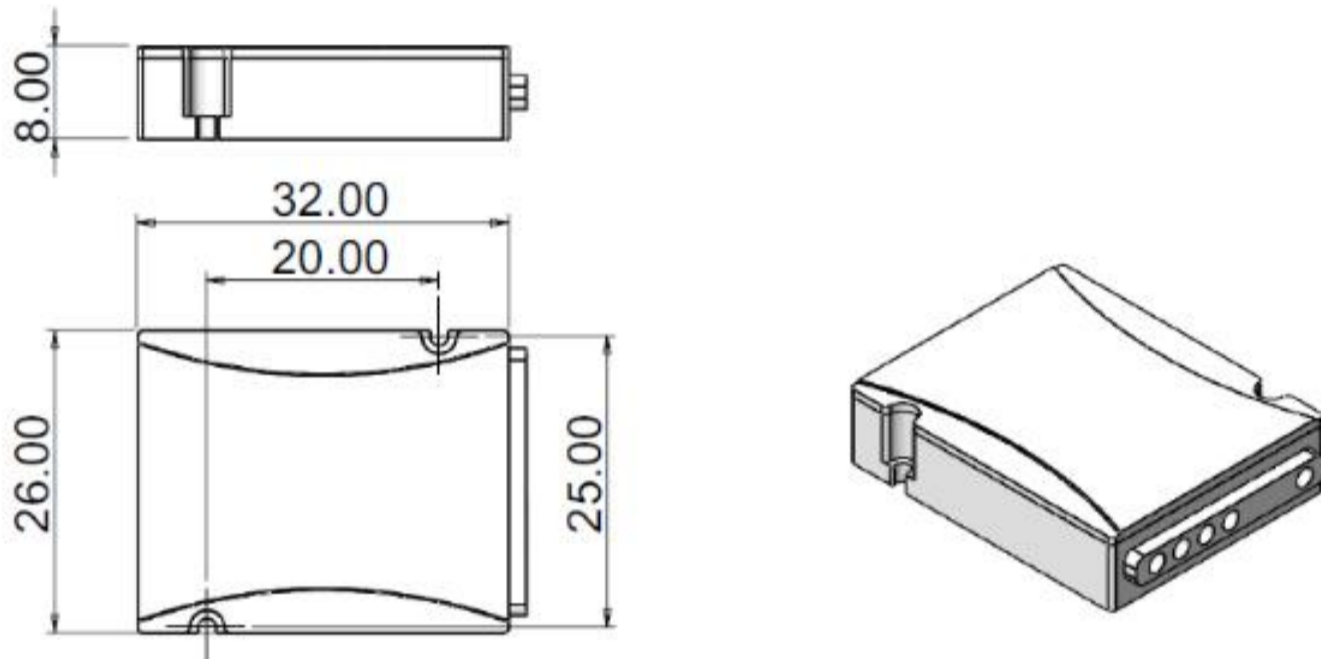
Maximum Optical Power (mw)	300
Operating Temperature (°C)	-5 to +75
Storage Temperature (°C)	-40 to +85
Package (mm) (L×W×H)	A1 Metal Box: 32×26×8

Notes:

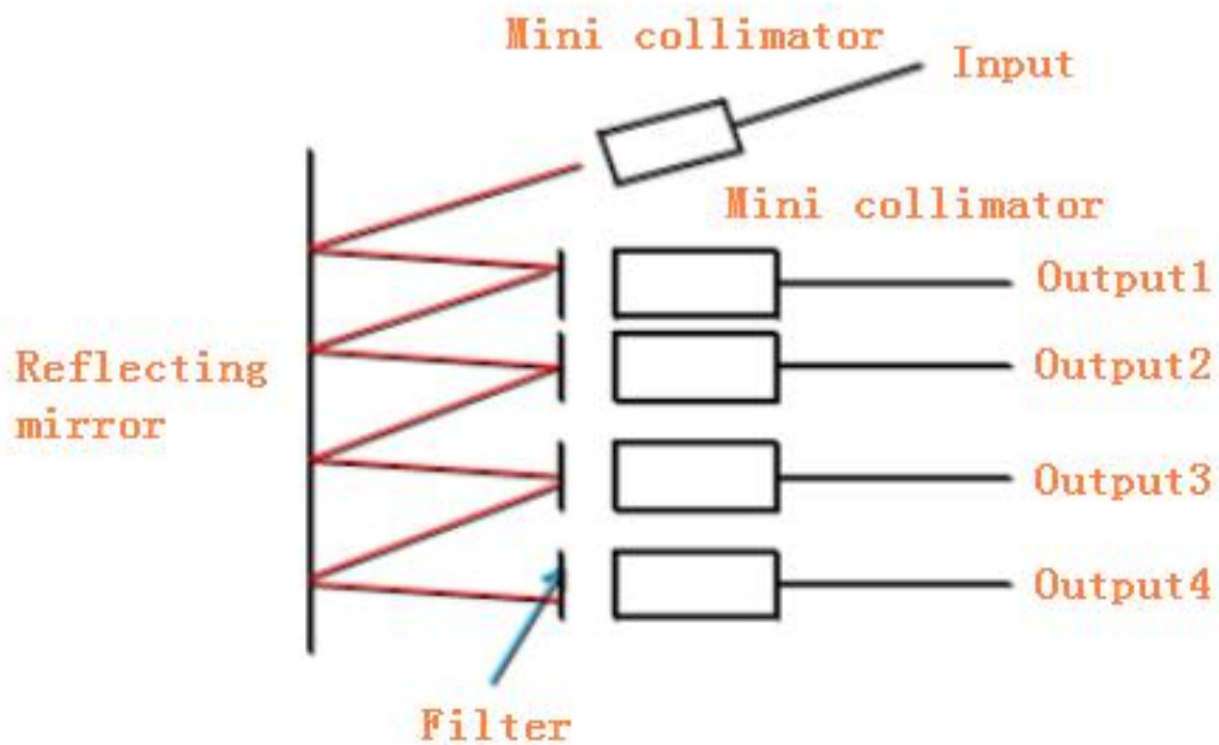
1. All specifications are based on the devices with connectors, and guaranteed over wavelength and temperature. Fiber type is G657A1.
2. An additional 0.3dB loss ought to be added per adapter.

Mechanical Dimensions

A1 Metal Box (32×26×8):



Structure Diagram



Ordering Information

GCC-M4Q	x	xx	A1	x	xx-	x	x
	Mux/DeMux Type ¹	Initial Wavelength	Package Type	Fiber Type	Fiber Length	Input Connector	Output Connector
Mini 4CH CCWDM	M=Mux	27=1270	A1=32×26×8 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	...			25=2.5m	3=SC/UPC	3=SC/UPC
	3=Mux with UPG port	53=1530			...	4=SC/APC	4=SC/APC
	4=DeMux with UPG port	55=1550				5=LC/UPC	5=LC/UPC
						6=LC/APC	6=LC/APC

Notes:

1. The 1310 in the "Mux/DeMux Type" is 1310±50nm.

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