

Coarse Wavelength Division Multiplexing (CWDM) Filter

Features

- ✓ Low Insertion Loss (IL)
- ✓ High isolation
- ✓ Low Polarization Dependent Loss (PDL)
- ✓ 1x2 port filter CWDM with compact design
- ✓ 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 Multiplexing (CWDM) filter is designed for 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 filters with 1x2 port configuration to meet different requirements on Operating Wavelength, Fiber Type, Fiber Length, COM Connector, Pass Connector, and Reflect Connector.

Specifications

Parameters	1x2 Port CWDM Filter ¹
Channel Space (nm)	20
Center Wavelength (nm)	ITU Grid
Operating Wavelength (nm)	1260 to 1620
Channel Passband (nm)	ITU±6.5
Pass Band Insertion Loss (dB)	< 0.6
Reflection Band Insertion Loss (dB)	< 0.4
Pass Band Isolation (dB)	> 30
Reflection Band Isolation (dB)	> 12
Directivity (dB)	> 50
Return Loss (dB)	> 45
Ripple (dB)	< 0.3
Polarization Dependent Loss (dB)	< 0.1
Polarization Mode Dispersion (ps)	< 0.1
Maximum Optical Power (mw)	300
Operating Temperature (°C)	-5 to +75
Storage Temperature (°C)	-40 to +85

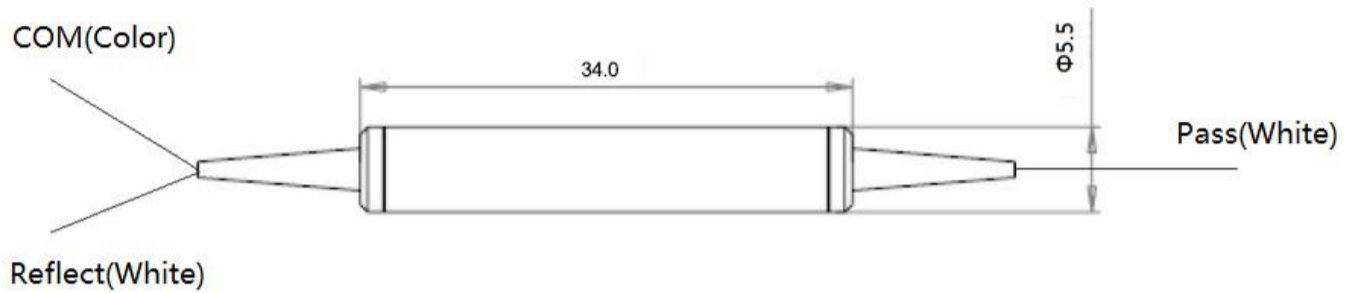
Package (mm)($\Phi \times L$)	250um bare fiber: 5.5×34 0.9mm tube fiber: 5.5×38
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Notes:

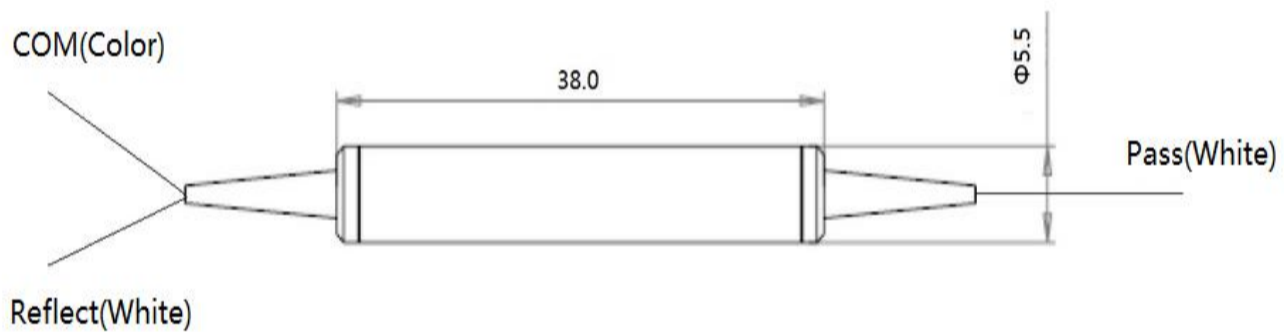
1. All specifications are based on the devices without connectors, and guaranteed over wavelength, polarization and temperature. Fiber type is G657A1.

Mechanical Dimensions

250um tube fiber (5.5×34):



0.9mm tube fiber (5.5×38):



Ordering Information

GWD-02Q	xx	x	xx-	x	x	x
	Center Wavelength	Fiber Type	Fiber Length	COM Connector	Pass Connector	Reflect Connector
CWDM Filter (1×2 Port)	27=1270/1271	B=250um bare fiber	10=1.0m	0=None	0=None	0=None
	29=1290/1291	L=0.9mm loose tube	15=1.5m	1=FC/UPC	1=FC/UPC	1=FC/UPC
	31=1310/1311		20=2.0m	2=FC/APC	2=FC/APC	2=FC/APC
	...		25=2.5m	3=SC/UPC	3=SC/UPC	3=SC/UPC
	57=1570/1571		...	4=SC/APC	4=SC/APC	4=SC/APC
	59=1590/1591			5=LC/UPC	5=LC/UPC	5=LC/UPC
	61=1610/1611			6=LC/APC	6=LC/APC	6=LC/APC

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