

WDM Filter

Description

The Gigalight WDM (Wavelength Division Multiplexing) filter, also known as Filter WDM (FWDM), is a bi-directional component used to combine and separate optical signals in a range of network applications. It is based on the Thin Film Filter (TFF) technology and operates at 1310/1490/1550nm band. Gigalight provides a series of customized WDM filters with 1×2 port configuration to meet different requirements on operating wavelength, fiber type, fiber length, COM connector, Pass connector, and Reflect connector.

Features

- ✓ Low Insertion Loss (IL)
- ✓ High isolation
- ✓ Low Polarization Dependent Loss (PDL)
- ✓ 1×2 port WDM filter 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.694.1 compliant
- ✓ RoHS-6 compliant (lead free)



Applications

- ✓ FTTx
- ✓ NGPON
- ✓ Broadband Networks
- ✓ Optical Add/Drop Multiplexing
- ✓ Telecommunications
- ✓ Metro Networks
- ✓ CATV Systems

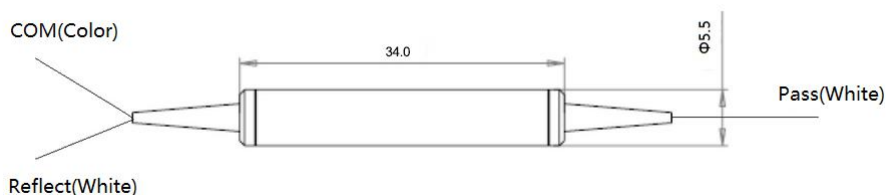
Parameters	1×2 Port WDM Filter ^[1]						
	F1	F2	F3	F4	F5	F6	F7
Operating Wavelength (nm)	T13R15	T15R13	T13R1415	T14R1315	T15R1314	T1415R13	T1314R15
Pass Channel Wavelength (nm)	1310±40	1550±40	1310±40	1490±10	1550±10	1490±10 1550±10	1310±40 1490±10
Reflection Channel Wavelength (nm)	1550±40	1310±40	1490±10 1550±10	1310±40 1550±10	1310±40 1490±10	1310±40	1550±10
Pass Channel Insertion Loss (dB)	<0.6						
Reflection Channel Insertion Loss (dB)	<0.4						
Pass Channel Isolation (dB)	>30						
Reflection Channel Isolation (dB)	>15						
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 ~ 75						
Storage Temperature (°C)	-40 ~ 85						
Package (mm)(Φ×L)	250um bare fiber: 5.5×34 0.9mm tube fiber: 5.5×38						

Note:

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

Mechanical Dimensions

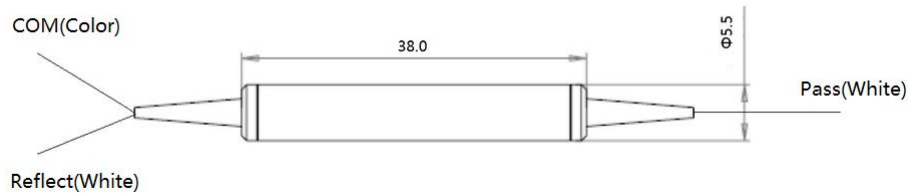
250um tube fiber (5.5×34):



Passive Optical Components

Data Sheet

0.9mm tube fiber (5.5 × 38):



Ordering Information

GWD-02F	xx	x	xx-	x	x	x
	Center Wavelength	Fiber Type	Fiber Length	COM Connector	Pass Connector	Reflect Connector
WDM Filter (1×2 Port)	F1=T13R15	B=250um bare fiber	10=1.0m	0=None	0=None	0=None
	F2=T15R13	L=0.9mm loose tube	15=1.5m	1=FC/UPC	1=FC/UPC	1=FC/UPC
	F3=T13R1415		20=2.0m	2=FC/APC	2=FC/APC	2=FC/APC
	F4=T14R1315		25=2.5m	3=SC/UPC	3=SC/UPC	3=SC/UPC
	F5=T15R1314		...	4=SC/APC	4=SC/APC	4=SC/APC
	F6=T1415R13			5=LC/UPC	5=LC/UPC	5=LC/UPC
	F7=T1314R15			6=LC/APC	6=LC/APC	6=LC/APC

Note :

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