

WDM Filter

1310nm/1490nm/1550nm

Description

The GrowsFiber WDM filter based on TFF technology is a bi-directional component used to combine and separate optical signals in a range of network applications. It operates at 1310nm/1490nm/1550nm band. The Operating Wavelength, Fiber Type, Fiber Length, and Connector Type can be customized.

Features

- Low insertion loss
- High isolation
- Low polarization dependent loss
- Compact design
- Wide operating wavelength range
- High reliability and high stability
- Telcordia GR-1209-CORE-2001 compliant
- Telcordia GR-1221-CORE-1999 compliant
- RoHS compliant



Applications

- GPON System
- XG-PON1 System
- NG-PON2 System
- Video Optical Transmission Network
- Data Center Interconnect Network
- Metro Optical Transport Network
- Telecommunications Network

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Specifications

Parameters	Wavelengths Options						
	T13R15	T15R13	T13R1415	T14R1315	T15R1314	T1415R13	T1314R15
Operating Wavelength (nm)	1310±40	1550±40	1310±40	1490±10	1550±10	1490±10 1550±10	1310±40 1490±10
Pass Channel Wavelength (nm)	1550±40	1310±40	1490±10 1550±10	1310±40 1550±10	1310±40 1490±10	1310±40	1550±10
Reflection Channel Wavelength (nm)	< 0.6						
Pass Channel Insertion Loss (dB)	< 0.4						
Reflection Channel Insertion Loss (dB)	> 30						
Pass Channel Isolation (dB)	> 15						
Reflection Channel Isolation (dB)	> 50						
Directivity (dB)	> 45						
Return Loss (dB)	< 0.3						
Ripple (dB)	< 0.1						
Polarization Dependent Loss (dB)	< 0.1						
Polarization Mode Dispersion (ps)	300						
Maximum Optical Power (mw)	-5 to +75						
Operating Temperature (°C)	-40 to +85						
Storage Temperature (°C)	250um bare fiber: 5.5×34 0.9mm tube fiber: 5.5×38						
Package (mm) (Φ×L)							

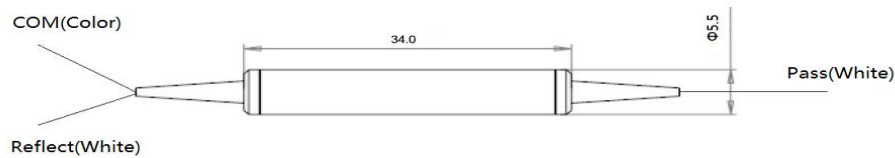
Note: All specifications are based on the devices without connectors, and guaranteed over wavelength, polarization and temperature. Fiber type is G657A1.

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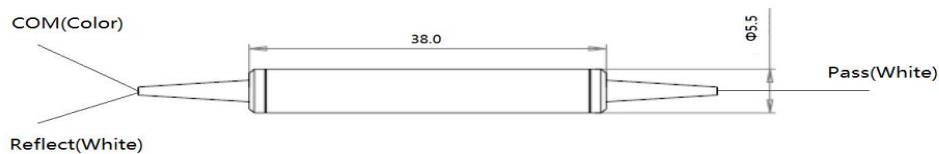
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Mechanical Dimensions

250um tube fiber (5.5×34):



0.9mm tube fiber (5.5×38):



Ordering Information

Part Number	Description
GFWFT3R5	WDM Filter, TX 1310nm, RX 1550nm
GFWFT5R3	WDM Filter, TX 1550nm, RX 1310nm
GFWFT3R45	WDM Filter, TX 1310nm, RX 1490nm&1550nm
GFWFT4R35	WDM Filter, TX 1490nm, RX 1310nm&1550nm
GFWFT5R34	WDM Filter, TX 1550nm, RX 1310nm&1490nm
GFWFT45R3	WDM Filter, TX 1490nm&1550nm, RX 1310nm
GFWFT34R5	WDM Filter, TX 1310nm&1490nm, RX 1550nm

Note: If there is a demand for orders that are different from those described above, please contact GrowsFiber. Customized options are shown as following:

Fiber Type	250um bare fiber, 0.9mm loose tube
Fiber Length	1.0m, 1.5m, 2.0m, 2.5m, ...
Connector Type	None, LC/UPC, LC/APC, SC/UPC, SC/APC, FC/UPC, FC/APC