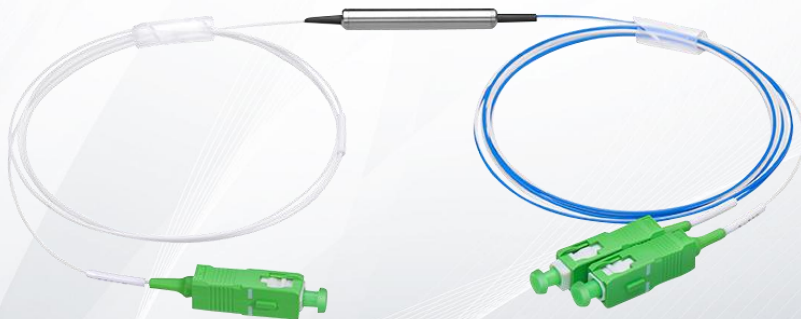


1310/1550/1490nm Filter Wavelength Division Multiplexer

Data Center & Cloud Computing Infrastructure Solutions



Overview

FWDM module combines or separates light at different wavelengths in a wide wavelength range. It can be used to expand the capacity of a single fiber to achieve bidirectional communication.

Featured with low insertion loss, low PDL, high channel isolation and excellent environmental stability, the filter is extensively used in EDFA, Raman amplifiers, WDM networks and fiber optics instrumentation.

Features

- Low PDL
- Compact size
- High channel isolation
- Excellent environmental stability
- Wide operating wavelength range

Application

- CATV
- WDM System
- FTTH/FTTx Application

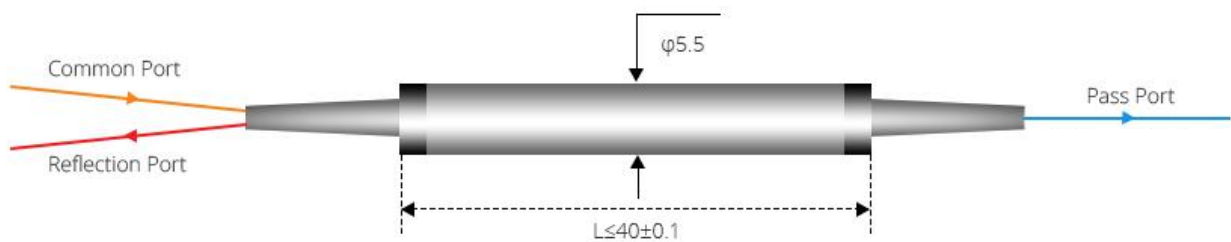
Technical Specification

Parameter	FS-FWDM				
Fiber Type	Single fiber				
Wavelength	T1310/R1550	T1550/R1310	T1490/R1310 &1550	T1310&1490/R1550	T1550/R1310&1490
Pass Band Wavelength Range(nm)	1260~1360	1420~1620	1480~1500	1260~1510	1540~1620
Reflection Band Wavelength Range(nm)	1420~1620	1260~1360	1260~1400&1530~1620	1530~1620	1260~1500
Cable Diameter*	900um for Steel Tube package 900um/2.0mm/3.0mm for ABS package				
Pass Channel Insertion Loss	≤ 1.0dB				
Reflect Channel Insertion Loss	≤ 0.7dB				
Pass Channel Isolation	> 30dB				
Reflect Channel Isolation	> 15dB				
Polarization Dependent Loss (dB)	< 0.10dB				
Input/Output Fiber Length	0.5m/1m/1.5m				
Connector	None/LC/SC/FC/ST, UPC/APC polish				
Polarization Mode Dispersion	< 0.10ps				
Directivity (dB)	> 50dB				
Passband Ripple	< 0.30dB				
Package Type	Steel Tube/ABS				
Return Loss	> 45dB				
Operation Temperature	-40℃~ +85℃				
Storage Temperature	-40℃~ +85℃				

*Note: The cable diameter of the steel tube Filter can only be customized in 900um.

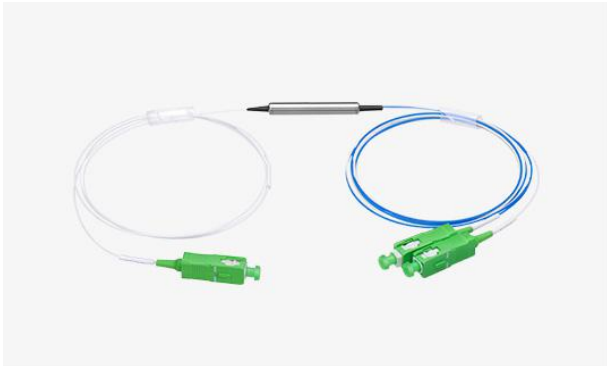
Component Structure

Filter Wavelength Division Multiplexer device consists of three ports: Common, Reflect and Pass port. It can multiplex or demultiplex two or more optical signals of different wavelengths in a single wide wavelength range channel, as well as increasing signal transmission speed and communication capacity.



Housing

For 900um cable diameter, steel tube and ABS package filters are available, but for 2.0mm or 3.0mm only the ABS package type filter can be customized.



Steel tube package type



ABS package type

Ordering Information

ID	Description
33489	18 Channels 1270-1610nm, with Monitor Port, LC/UPC, Dual Fiber CWDM Mux Demux
72430	16 Channels C21-C36, with Monitor, Expansion and 1310nm Port, LC/UPC, Dual Fiber DWDM Mux Demux