

1310/1490/1550 FWDM Component

Description

Filter-based Wavelength Division Multiplexer (Filter WDM, or FWDM) is based on the mature membrane filter technology, with a wide channel bandwidth, low insertion loss, high channel isolation degrees and high environmental stability and reliability. The device combines or separates light at different wavelengths in a wide wavelength range. The Filter-Based WDM is extensively used in EDFA, Raman amplifiers, WDM networks and fiber optics instrumentation.

Features

- Wide bandwidth
- Low insertion loss
- High channel isolation
- Exceptional reliability and stability



Applications

- Optical amplifiers
- CATV

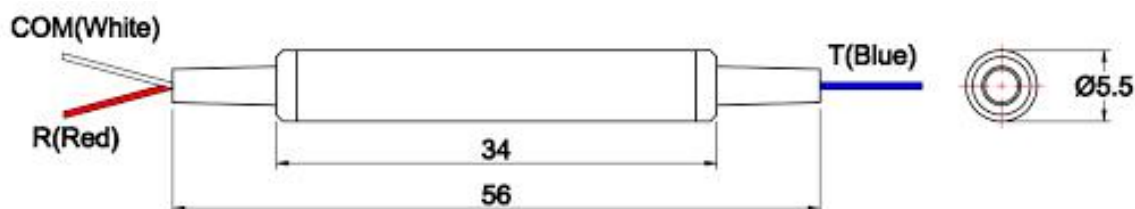
Specifications

Item		Unit	Parameters			
Pass Port (C-P)	Central Wavelength λ_p	nm	1310	1550	1550	1310/1490
	Wavelength Range	nm	1260~1360	1550~1560	1540~1620	1260~1500
	Insertion Loss	dB	≤ 0.60			
	Flatness	dB	≤ 0.30			
	Isolation @ λ_R	dB	≥ 30			
Reflect Port (C-R)	Central Wavelength λ_R	nm	1490/1550	1310/1490/1600	1310/1490	1550
	Wavelength Range	nm	1460~1620	1260~1500& 1580~1620	1260~1500	1535~1620
	Insertion Loss	dB	≤ 0.40			
	Flatness	dB	≤ 0.25			
	Isolation @ λ_p	dB	≥ 13			
Directivity	dB	≥ 50				
Optical Return Loss	dB	≥ 50				
Polarization Dependent Loss	dB	≤ 0.1				
PMD	ps	≤ 0.1				
Thermal Stability	dB/°C	≤ 0.005				
Optical Power	mW	≤ 500				
Tensile Load	N	≥ 5				
Operating Temperature	°C	-5 to +70				

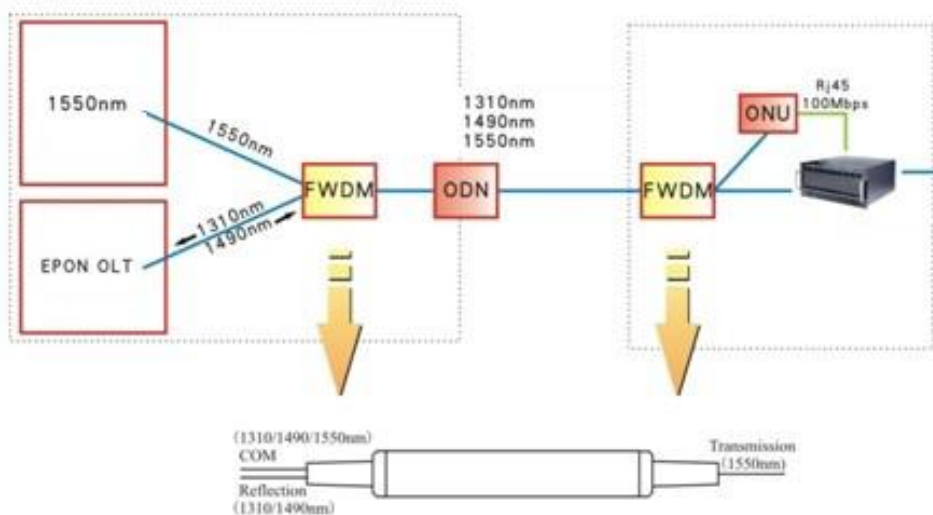
Storage Temperature	℃	-40 to +85
Fiber type		SMF-28e
Package dimension	mm	TBD

Note: Under normal temperature conditions, not including connectors, splices and end device loss

Dimensions drawing (mm)



Applications configuration diagram



Ordering information(FWDM-1-1-1-0)

Product name	Type	Tube	Fiber length	Connector
FWDM	1=T1310nmR1490+1550 2=T1490nmR1310+1550 3=T1310+1490nmR1550 4=T1550nmR1310+1490	1=250um Fiber 2=900um Fiber 3=Others	1=0.5+/-0.1m 2=1.0+/-0.1m 3=Others	0=No connector 1=FC/UPC 2=FC/APC 3=SC/UPC 4=SC/APC 5=LC