

FWDM Device

Features

- Low insertion loss
- Low PDL
- High channel isolation
- Excellent environmental reliability



Applications

- WDM system
- CATV

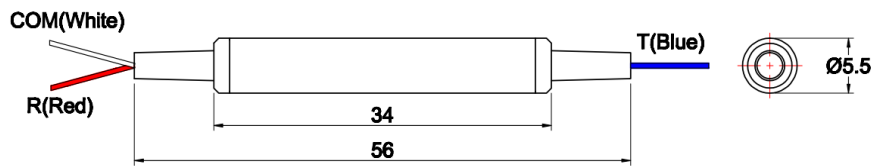
FWDM can realize the multiplexing and demultiplexing between two communication channel .It can expand the capacity of single fiber to achieve bidirectional communication, which can widely used in optical network upgrade and expansion, or introduce new comprehensive business etc.

Specifications

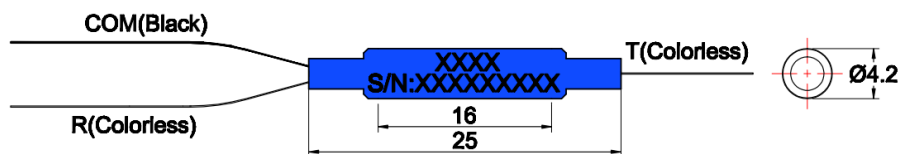
Parameters	Unit	FWDM Device			
Operating Wavelength T: transmission wavelength R: reflection wavelength 1310±50, 1490±10, 1550±10 1610±10, 1625±25, 1650±20	nm	1	T1550 R1310/1490		
		2	T1490 R1310/1550		
		3	T1310 R1490/1550		
		4	T1550/1610 R1310/1490		
		5	T1550/1625 R1310/1490		
		6	T1625 R1310/1490/1550		
		7	T1650 R1310/1490/1550		
Insertion Loss	dB	Transmission: ≤ 0.6			
		Reflection: ≤ 0.4			
Transmission Channel Isolation	dB	≥ 30			
Reflection Channel Isolation	dB	≥ 17			
PDL	dB	≤ 0.1			
Wavelength thermal stability	nm/°C	≤ 0.003			
Insertion loss thermal stability	dB/°C	≤ 0.005			
Return loss	dB	≥ 45			
Optical Power	mW	≤ 500			
Operating Temperature	°C	-10 ~ +70			
Storage Temperature	°C	-40 ~ +85			
Relative Humidity	%	5 ~ 95			
Dimension	mm	Φ5.5×34	Φ4.2×25	90×20×10	
Note: 1. Customization is available.					
2. Specified without connector, and add an additional 0.2dB loss per connector.					

Dimension

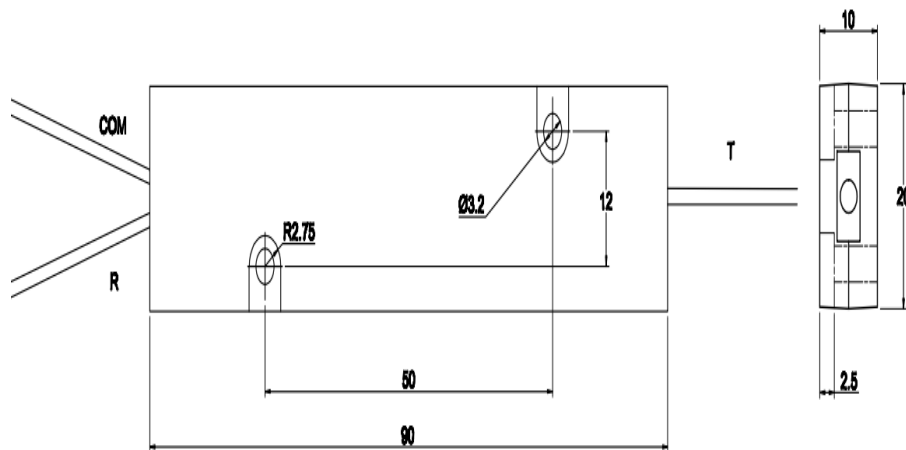
5534: $\Phi 5.5 \times 34$ mm



4225: $\Phi 4.2 \times 25$ mm

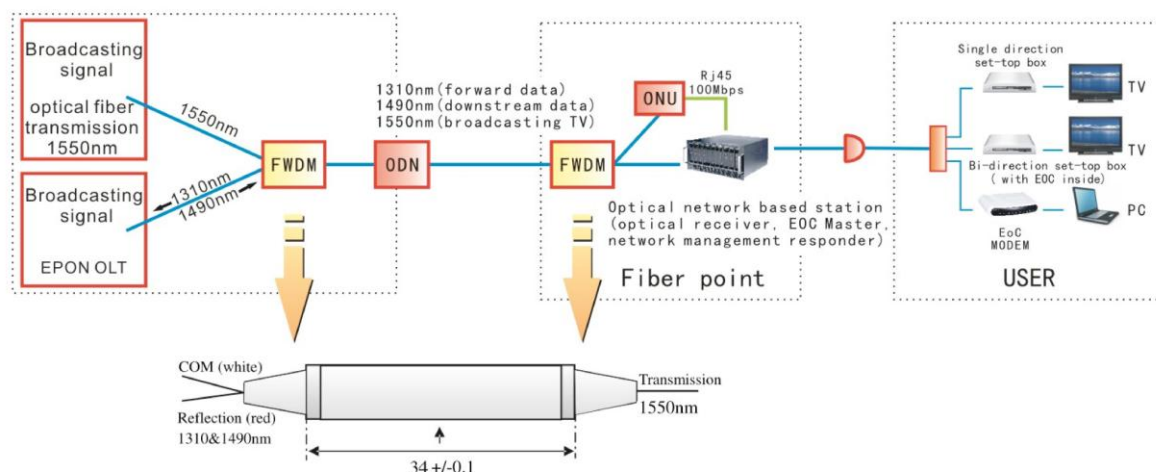


9021: $90 \times 20 \times 10$ mm



FWDM Applications in There in One Network

Three networks in one--FWDM application



Multiplexes 1550nm TV signal onto PON (1490 forward data and 1310 downstream data) with WDM, which can realize single fiber bi-direction wavelength transmission.

Ordering Information: FWDM-A-B-C-D-E

A	B	C	D	E
Wavelength	Tube Type	Fiber Length (Include connector)	Connector	Dimension
T15R13/14:T1550 R1310/1490	25:250um	05: 0.5m±0.05m	OO:None	5534: Φ5.5×34mm
T14R13/15:T1490 R1310/1550	90:900um 20:2000um	10: 1.0m±0.05m	FP: FC/PC	4225: Φ4.2×25mm
T13R14/15:T1310 R1490/1550	30:3000um	15: 1.5m±0.05m	FA: FC/APC	9021: 90×20×10mm
T15/16R13/14:T1550/1610R1310/1490 X: Others	X: Others	X: Others	SP: SC/PC SA: SC/APC STP: ST/PC STA: ST/APC LP: LC/PC LA: LC/APC X: Others	X: Others