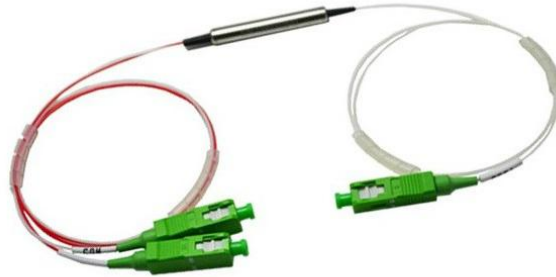# 1x2 FWDM Device (3 Ports)

1、 Cable Drawing

2、Description

　　(FWDM) Filter-based wavelength division multiplexer , based on Thin Film Filter (TFF) technology,The device combines or separates light at different wavelengths in a wide wavelength range. It can expand the capacity of a single fiber to achieve bidirectional communication, so that widely used in optical network upgrade and expansion, or introduce new comprehensive business etc.

　　XDK provides filter-based wavelength division multiplexing (WDM) filter devices that are customized to the particular wavelength bands for your special applications.

3、Features

- Low Insertion Loss, Low PDL & PMD
- Excellent Channel Isolation
- High stability & reliability
- Epoxy free on optical path
- Ultra Flat Wide Passband

4、Application

- WDM networks and fiber optics instrumentation
- EDFA，Raman amplifier，CATV
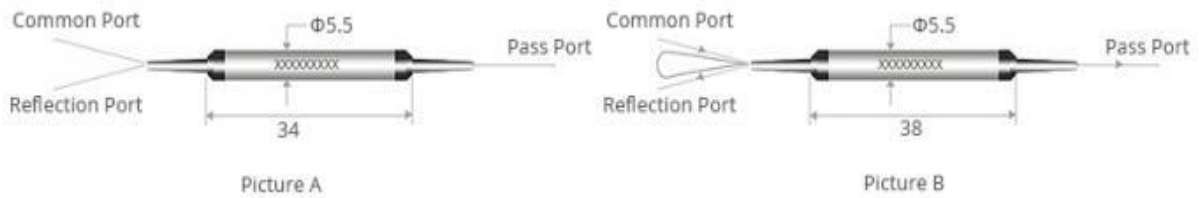- Accessing LAN Networks

5、Specification

Item	Unit	Parameters						
		Picture A			Picture B			
		T13/R15	T14/R1315	T1415/R13	T15/R13	T13/R1415	T15/R1314	T1314/R15
Operating wavelength	nm	T13/R15	T14/R1315	T1415/R13	T15/R13	T13/R1415	T15/R1314	T1314/R15
Transmission Length	nm	1310±40	1490±10	1490±10 1550±10	1550±40	1310±40	1550±10	1310±40 1490±10
Reflection wavelength	nm	1550±40	1310±40 1550±10	1310±40	1310±40	1490±10 1550±10	1310±40 1490±10	1550±40
Passband Ripple	dB	≤0.30						
Transmission IL	dB	≤0.80 (0.60Typ.)						
Reflection IL	dB	≤0.60 (0.40Typ.)						
Reflection Ripple	dB	≤0.20						
Transmission Isolation	dB	≥30						
Reflection Isolation	dB	≥15						
PDL	dB	≤0.05						
Directivity	dB	≥50						
Return loss	dB	≥45						
Cable Diameter	mm	0.9, 2.0 or 3.0						
Operating Temperature	℃	-5 to +70						
Storage Temperature	℃	-40 to +85						
Fiber Type	--	G657A or Customized						
Package Dimension	mm	Φ5.5×34(A)/ 250um bare fiber (Glass Tube)						
		Φ5.5×38(B)/900um loose tube (Steel Tube)						
		L100 x W80 x H10/0.9, 2.0 or 3.0 (ABS)						

Notes:

1. All values specified are without connectors.

2. IL will increase 0.2dB when add one connector.

3. Customized service is available.

4. T: transmission wavelength   R: reflection wavelength

6、 Dimension

Picture A

Picture B

Picture A is for T13/R15, T14/R1315, T1415/R13 FTTX Filter WDM
Picture B is for T15/R13, T13/R1415, T15/R1314, T1314/R15 FTTX Filter WDM

7、 Package Type

● Glass Tube Package for 250um bare fiber

● Steel Tube package for 250um bare fiber and 900um fiber

● ABS box for 900um, 2.0mm and 3.0mm fiber

Note : 250um bare fiber is too finne to be equiped with connector

steel tube package type

ABS package type