

## 1650nm FWD



Gezhi Optical Fiber Filter WDM FTTX 1650nm is made by special optical components and advanced technology, it can deeply let 1650nm band wavelength pass but efficiently filter out 1250-1625nm wavelength. This product is mainly used in optical fiber on-line testing. It is ideal component of 1625/1650nm optical fiber filtering.

It enable testing fibers that are bearing traffic with an OTDR by inserting an out-of-band wavelength (1625 or 1650 nm). The OTDR signal is added to the data signal by using a wavelength division multiplexer (WDM). At the other fiber extremity, a filter blocks the OTDR signal. When OTDR measurement range can cover more than one fiber span, a bypass can extend the OTDR signal to the adjacent span

### ◆ Features:

- Telcordia GR1221,RoHS Compliant
- Optical path epoxy free and excellent thermal stability
- Low insertion loss and high isolation
- Wide and flat passband

### ◆ Application:

- FTTX on line testing
- OTDR monitor module
- 1625/1650nm filter system

◆ Specifications:

Parameter		Specification				
Central wavelength (nm)		1650				
Type		1	2	3	4	5
Pass band wavelength(nm)		1640~1670	1640~1670	1640~1670	1625~1670	1622.5~1670
Reflection wavelength(nm)		1260~1625	1260~1635	1260~1637.5	1260~1617.5	1260~1617.5
Insertion Loss	Pass (C→T)@PB	≤0.8				
	Reflect (C→R)@SB	≤0.6				
Isolation (Pass)		≥30				
Isolation (Ref)		≥15				
Directivity (dB)		≥55				
Return loss (dB)		≥45				
PDL(dB)		≤0.10				
Insertion loss thermal stability(dB)		≤0.005				
Power handling (mW)		≤500				
Operating temperature(°C)		0 ~ +70				
Storage temperature(°C)		-40 ~ +85				
Dimensions(mm)		Φ5.5xL38mm				

◆ Ordering information: FWDM1650-

Wavelength	Package Spec	Fiber Type	Fiber Diameter	Fiber Length	Connector	
Type1	S1= Steel tube φ5.5x38mm	9=9/125	25=250um	05=0.5m	00=none	
Type2	A0=ABS box 90x20x10mm	X=Others	90=900um	10=1.0m	LP=LC/UPC	
Type3	A1=ABS box 100x80x10mm		20=2.0mm	15=1.5m	LA=LC/APC	
Type4	A2=ABS box 120x80x18mm		30=3.0mm	X=Others	SP=SC/UPC	
Type5	A3=ABS box 140x115x15mm		X=Others		X=Others	SA=SC/APC
	L1=LGX 129*29*130mm					FP=FC/UPC
	L2=LGX insert in 2slot Rack	FA=FC/APC				
	L4=LGX insert in 4slot Rack			X=Customized		
	R1=19" 1 U Rack					
	R2=2slot 19"1U Rack					
	R4=4slot 19"1U Rack					
	X=Customized					