

1x2(1x3) Triplexer Filter (1310/1490/1550 TWF)

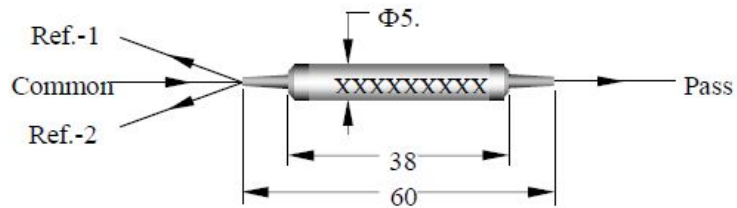
Triplexer filter is designed for the tri-play FTTH fiber systems. It is used to mux/demux 1310, 1490 and 1550nm three wavelengths. 1×3 Triplexer splitting/combining 1310, 1490, 1550nm all three wavelengths in one single filter, functions as a two cascaded 1x2 Triplexer component.

Key Features

- Splitting all three wavelengths, compact size
- Wide pass band
- High isolation
- Low insertion loss

Applications

- FTTH tri-play system
- Testing instruments



Specifications

Parameter \ Type	1×2 Triplexer filter	1×3 Triplexer filter
Central wavelength (nm)	1310, 1490, 1550	
Operating wavelength (nm)	1310±40, 1490±10, 1550±10	
Pass/Reflection wavelength (nm)	On Customer Request	
Pass band insertion loss (dB)	≤0.8 (0.6 typical)	
Reflection band-1 insertion loss (dB)	≤0.6(0.4 typical)	≤0.5(0.3 typical)
Reflection band-2 insertion loss (dB)		≤1.0 (0.8 typical)
Pass band isolation(dB)	≥30	
Reflection band-1 isolation(dB)	≥15	≥15
Reflection band-2 isolation(dB)		≥15
Directivity (dB)	≥50	
Return loss(dB)	≥50	
PDL (dB)	≤0.1	
Insertion loss thermal stability (dB/ °C)	≤0.005	
Power handling (mW)	≤500	
Operating temperature (°C)	-5 ~ +70	
Storage temperature (°C)	-40 ~ +85	
Dimensions (mm)	Φ5.5× L34	Φ5.5×L38

*The above specification is without connector.



Ordering Information

TWF-XXX-TXX/RXX-X-X-XX/XXX-XX*XX

