60dB High Isolation Manual Tunable Filter

0.6 nm / 75 GHz Passband

The Newport™ High Isolation Manual Tunable Filter is used to select a narrow passband from a 30 nm wavelength range.

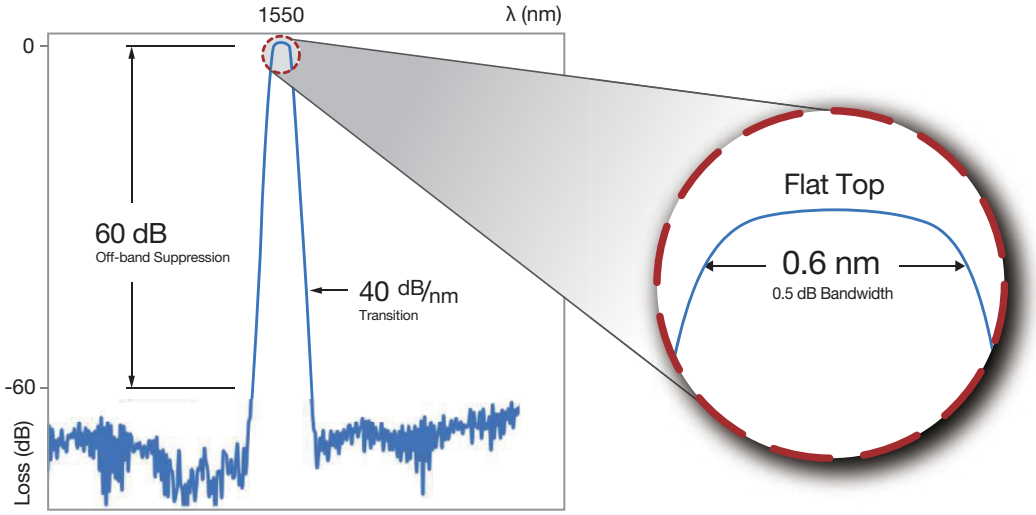
The user can manually select the passband by turning the precise micrometer adjustment mechanism, and the selected passband can be locked in place mechanically.

Features

- Off-band suppression > 60 dB
- Flat top passband
- 0.6 nm passband @ 0.5 dB

Applications

- Increased laser signal to noise ratio
- ASE noise cleanup for EDFA
- Channel selection for multi-channel signals
- Laboratory test and measurement systems



Optical Specifications[1]

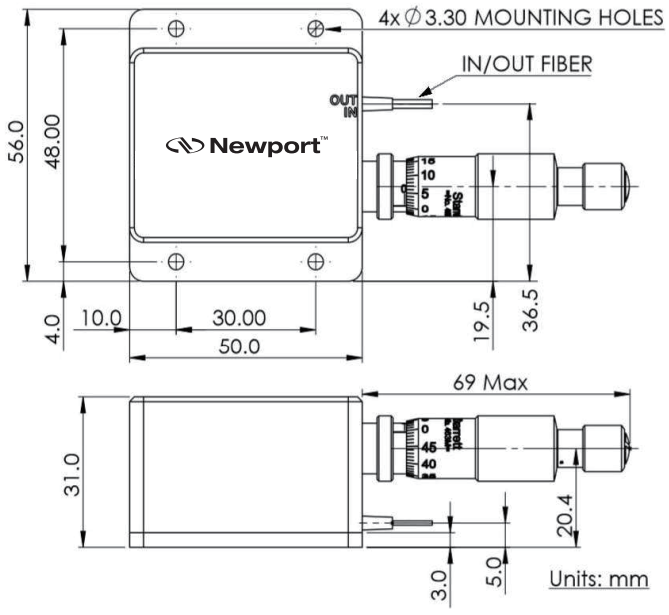
PARAMETER	RATING	
Tuning Range	C-Band	1535 to 1565 nm
Bandwidth	@ 0.5 dB	0.6 nm min.
	@ 3 dB	1 nm min.
	@ 20 dB	2.3 nm min.
Min IL @ Peak[2]	1.5 dB typ. (2.5 dB max.)	
Tuning Resolution	0.05 nm typ.	
PDL	0.10 dB typ. (0.28 dB max.)[3]	
Back Reflection	-55 dB typ. (-40 dB max.)	
Optical Power	500 mW max.	
Operating Temperature	-5 to 70°C	
Storage Temperature	-40 to 85°C	
Fiber Type	9/125 µm single mode (One meter on each side)c	

1. All specifications are without connectors
2. IL measured at center wavelength @ 25°C
3. Typical PDL is 0.13 dB @ 1550 nm; 0.02 dB @ 1565 nm; 0.28 dB @1535 nm

Ordering Information

MODEL	DESCRIPTION
TBF-1550-2.0	Tunable Bandpass Filter, 1550 nm, 9/125 µm, Pigtails, No Connectors
TBF-1550-2.0-FCAPC	Tunable Bandpass Filter, 1550 nm, 9/125 µm, Pigtails, FCAPC.
TBF-1550-2.0-FCUPC	Tunable Bandpass Filter, 1550 nm, 9/125 µm, Pigtails, FC/UPC

Dimensional Drawing



www.newport.com

DS-092201 60dB Manual Tuanable Filter Datasheet_04/24