# 60dB High Isolation Manual Tunable Filter

0.6 nm / 75 GHz Passband



The Newport<sup>™</sup> 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.

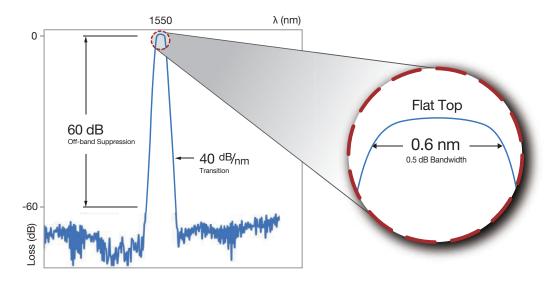


#### **Features**

- 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<sup>1</sup>

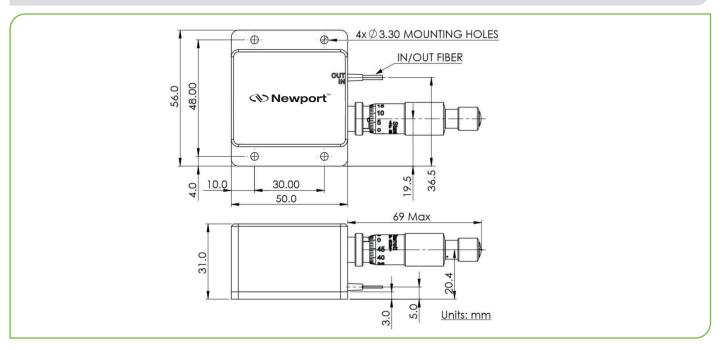
PARAMETER		RATING
Tuning Range	C-Band	1535 to 1565 nm
Bandwidth	@ 0.5 dB	0.6 nm min.
	@ 3 dB	1 nm min.
	@ 20 dB	2.3 nm min.
Min IL @ Peak <sup>2</sup>	1.5 dB typ. (2.5 dB max.)	
Tuning Resolution	0.05 nm typ.	
PDL	0.10 dB typ. (0.28 dB max.) <sup>3</sup>	
Back Reflection	-55 dB typ. (-40 dB max.)	
Optical 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**





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