



Fiber Optic Tunable Filter (FOTF Series)

Rev 11E

Description

The Fiber Optic Tunable Filter is based on fiber Fabry-Perot interferometer technology. Activated by a piezoelectric transducer, the device can be tuned across the entire C + L band. It is ideal for applications in signal selection, noise rejection, and spectrum analysis. Two thermistors are mounted in the filter package for temperature monitoring.

Key Features

- High Resolution
- Efficient Low Loss Design
- Tuning Range C + L Bands
- Vibration and Shock Resistant
- Excellent Thermal Stability

Applications

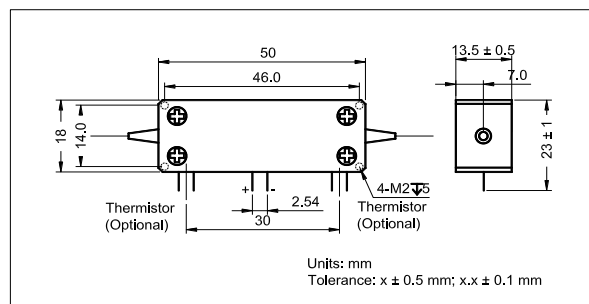
- FBG and FP Sensor Interrogation
- Wavelength-Swept Sources
- Spectrum Analysis
- Optical Channel Monitoring and Selection
- Optical Noise Filtering

Specifications

Parameter	Unit	Value		
Wavelength Range	-	C + L Band		
Typ. Finesse	-	400	1000	2000
Typ. FSR	nm	~ 100	~ 120	~ 120
Typ. Pass Bandwidth @ - 3 dB	nm	~ 0.25	~ 0.12	~ 0.06
Max. Peak Insertion Loss	dB	3.0	3.0	3.5
Max. Optical Power	mW	30	12	6
Max. PDL (at peak transmission wavelength)	dB	0.3		
Slow Tuning Frequency	kHz	< 5		
Resonant Frequency	kHz	65 ± 10		
Fiber Type	-	SMF-28 Fiber		
Max. Tuning Voltage/FSR	V	25		
Max. Tuning Voltage for Resonant Tuning	V	3.5		
Resistance of NTC Thermistor @ 25 °C	kΩ	100		
Operating Temperature	°C	0 to + 70		
Storage Temperature	°C	- 40 to + 80		
Dimensions	mm	13.5 x 18 x 50		
Fiber Length	m	1		

¹IL is 0.3 dB higher for each connector added.

Package Dimensions



Ordering Information

FOTF-①-②②②-③③-④-⑤:

①: Wavelength Range

B - C + L Band

②②②: FSR

100 - 80 ~ 120 nm

120 - 100 ~ 140 nm

160 - 140 ~ 180 nm

③③: Finesse

04 - 400

10 - 1000

20 - 2000

④: Connector Type

1 - FC/UPC 4 - SC/APC

2 - FC/APC N - None

3 - SC/UPC S - Specify

⑤: Fiber Jacket

B - 250 µm Bare Fiber

L - 900 µm Loose Tube

S - Specify