



Fiber Optic Tunable Filter (FOTF Series)

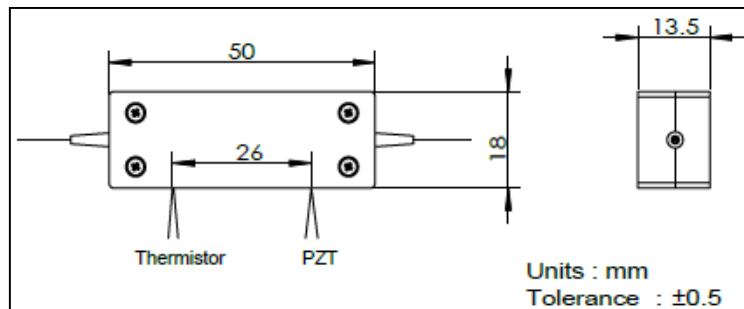
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The Fiber Optic Tunable Filter (FOTF) is based on fiber Fabry-Perot interferometer technology. Driven by a piezoelectric actuator, the device can be tuned across a wide band range. New techniques have been applied in FOTF to guarantee high accuracy fiber alignment and to support fast tuning rate. It is an ideal solution for applications in wavelength scanning, spectrum analysis, signal selection and noise rejection.

Specifications

Parameter	Unit	Value				
Wavelength Range	nm	C + L band				
Typ. FSR	nm	100-200 optional				
Typ. Finesse		400	1000	2000	5000	10000
Max. Peak Insertion Loss	dB	1.2	1.4	1.6	2	2.5
Max. Optical Power	mW	50	20	10	4	2
Typ. Pass Bandwidth @ -3dB	nm	FSR / Finesse				
Resonant Frequency	kHz	65 ± 10			75 ± 10	
Voltage/FSR for DC Bias	V	20 ± 5			40 ± 5	
Max. Tuning Voltage	V	80				
Fiber Type		SMF-28e+				
Resistance of NTC Thermistor @ 25°C	kΩ	5				
Operating Temperature	°C	10 to +50				
Storage Temperature	°C	-10 to +70				
Dimensions	mm	13.5 x 18 x 50				

Package Dimensions



Ordering Information

FOTF-①-②②②-③③③-④④-⑤-⑥-⑦-⑧

①: Wavelength Range B - C + L band S - Specify	②②②: FSR 150 - 150 ± 20 nm SSS - Specify	③③③: Finesse 400 - 400 SSS - Specify	④④: Resonant Frequency 65 - 65 ± 10 kHz 75 - 75 ± 10 kHz
⑤: Connector Type N - None S - Specify	⑥: Fiber Jacket L - 900 μm loose tube S - Specify	⑦: Fiber Length 1 - 1.0 m S - Specify	⑧: Thermistor Y - With thermistor N - Without thermistor