

## 1550nm SM FBG Tunable Optical Filter

1550nm SM FBG Tunable Optical Filter is a fiber passive component which can be used to filter out variable wavelength from a wide wavelength bandwidth, it's based on Fiber Bragg Grating (FBG) technology, the demanded wavelength can be filtered out precisely by adjusting the manual screw. Wavelength can be tuned continuously over a wide spectral range ~10nm, it's widely used in Fiber Optic Sensor and Optical Testing System. High power type is available upon request.

### Application:

Testing System  
Fiber Optic Sensor  
ASE Control  
Lab & Research

### Features:

Low Insertion Loss  
High Resolution  
Wide Tuning Range  
High Reliability

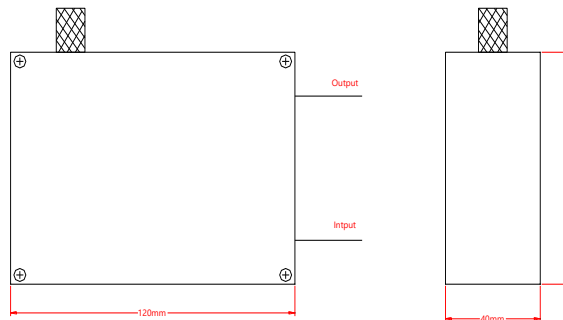


### Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	$\lambda$	1550	nm
Tuning Range		1548-1558	nm
Insertion Loss	IL	3.0 (max.), 2.8 (typ.)	dB
Bandwidth @-3dB	BW	0.16 (max.), 0.14 (typ.)	nm
Out of Band Isolation		15 (typ.)	dB
Polarization Dependent Loss	PDL	0.35 (max.), 0.15 (typ.)	dB
Polarization Mode Dispersion	PMD	0.5 (max.), 0.3 (typ.)	ps
Min. Return Loss	RL	40	dB
Max. Optical Power (CW)	P	500	mW
Max. Tensile Load		5	N
Fiber Type		SMF-28e fiber	-
Operating Temperature	T	0~70	°C
Storage Temperature	T	-40~85	°C
Package Dimension			mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23°C.  
For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower.

### Drawing:



### Ordering Information (Part Number):

SMFTOF-**WWW**-**J**-**LL**-**CC**

<b>WWW</b>	<b>J</b>	<b>LL</b>	<b>CC</b>
Wavelength	Fiber Jacket	Fiber Length	Connector
1550 - 1550nm SSSS - Specify	B - 250um Bare Fiber 9 - 900um Loose Tube	05 - 0.5m 08 - 0.8m 10 - 1.0m 15 - 1.5m 20 - 2.0m SS - Specify	NE - None FA - FC/APC FU - FC/UFC SA - SC/APC SU - SU/APC LA - LC/APC LU - LC/UFC SS - Specify