

Manual Etalon-Based Fiber Optic Tunable Filter

Product Description

Based on a proprietary thin film cavity filter technology, we produce Fiber Optic Tunable Filters with central wavelengths of 1060nm to 2050nm. Other center wavelength can also be made. It is tunable continuously over a wide spectral range up to 100 nm with a 1nm peak bandwidth. Longer center wavelength has larger tuning range. The wavelength tuning is made by manually rotating a precise micrometer. Our unique high reliability and low insertion loss design presents a most cost-effective solution for OEM applications from fiber optic networks to fiber sensing interrogation.

Features

Compact and Low Cost

BUY NOW

- Wide Tune Range
- Wide Wavelength
- Low IL and PDL

Applications

- DWDM networks
- Fiber Sensing
- ASE control
- Tunable Fiber Laser

Revised on 9/23/21 (Click here for latest revision) The current standard configurations are in volume production thus having low cost benefit. Other wavelength is available that requires extra cost to make the filter.



Performance Specifications

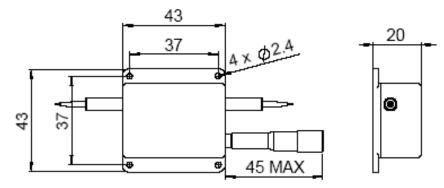
Parameter	Min	Typical	Max	Unit	
Center Wavelength	350		2400	nm	
Tuning Range ^[1]	-	+ - 30	+ - 50	nm	
Tuning Resolution	-	0.1	-	nm	
Insertion Loss ^[2]	1.5	2	3.5	dB	
Bandwidth @-3dB	-	1	1.2	nm	
Bandwidth @-20dB	-	10	-	nm	
Off-Band Suppression	-	30	-	dB	
PDL (SM fiber only)	-	0.15	0.35	dB	
PMD (SM fiber only)	-	-	0.5	ps	
Extinction Ratio (PM fiber of	18	23	-	dB	
Return Loss		40	-	-	dB
Optical Power Handling (CW)	Standard version	-	0.5		W
	High power version		10		W
Operating Temperature		0	20	60	°C
Storage Temperature	-10	-	70	°C	

[1]. Longer the wavelength, larger the tuning range

[2]. Smaller the fiber core, higher the loss. The measurement is an integration of the transmission peak using a broadband source. Excluding connector loss

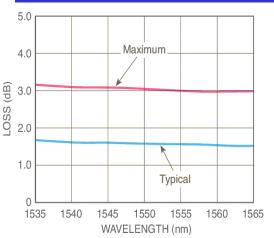


Mechanical Dimension (mm)

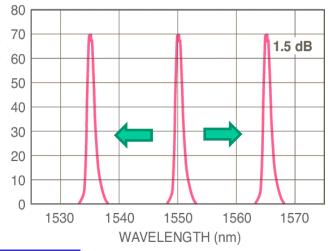


*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

TRANSMISSION (%)



Typical Transmission Curve



Ordering Information

FOTF-	0 2			2				
	Туре	Wavelength	Power	Pack	Fiber Type		Fiber Length	Connector
		$\begin{array}{c} 2100 \pm 60nm = 1 \\ 2000 \pm 50nm = 2 \\ 1960 \pm 40nm = 4 \\ 1850 \pm 50nm = A \\ 1620 \pm 40nm = 7 \\ 1550 \pm 40nm = 5 \\ 1550 \pm 50nm = 9 \\ 1480 \pm 40nm = 8 \\ 1310 \pm 40nm = 3 \\ 1060 \pm 40nm = 6 \\ 1005 \pm 45nm = B \\ \hline \end{subarray}$	Standard = 1 High Power=2		SMF-28 = 1 HI1060 = 2 PM980 = 3 PM1550 = 4 Special = 0	Bare fiber=1 900um tube=3 Special=0	0.25m= 1 0.5m = 2 1.0 m= 3 Special =0	None = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC = 7 Special = 0

Red Items require NRE of \$1950 to make the filter