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PHOTONWARES

Manual Etalon-Based Fiber Optic Tunable Filter Long Range

>120nm

Product Description

Based on a proprietary thin film cavity filter technology, we produce Fiber Optic Tunable Filters with central wavelengths of 1060nm to 2050nm having a long tuning range over 120nm. Other center wavelength can also be made. This is achieved by combining two tunable filters and two wavelength independent optical switches. The wavelength tuning is made by manually rotating two precise micrometers; one at a time and selected by a push button toggle switch. Our unique low insertion loss design presents a cost-effective solution for long range fiber tunable filter.

Features

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

Performance Specifications

Parameter		Min	Typical	Max	Unit
Wavelength Coverage	1020-1080,	1450-1580,	1510-1640,	1950-2080	nm
Tuning Resolution		-	0.1	-	nm
Insertion Loss [2]		2	2.6	4	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 only)		18	23	-	dB
Return Loss		40	-	-	dB
Optical Power Handling (CW)	Standard version	-	0.5		W
	High power version		3		W
Operating Temperature		0	20	60	° C
Storage Temperature		-10	-	70	° C

Applications

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

[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

Revised on 7/15/21

(Click here for latest revision)

15 Presidential Way, Woburn, MA 01801 Tel: (781) 935-1200 Fax: (781) 935-2040
www.agiltron.com

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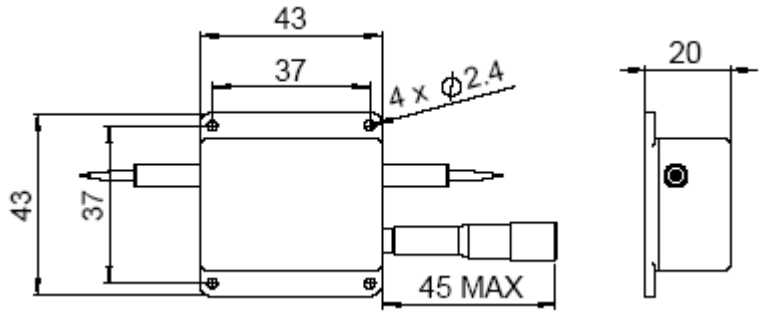
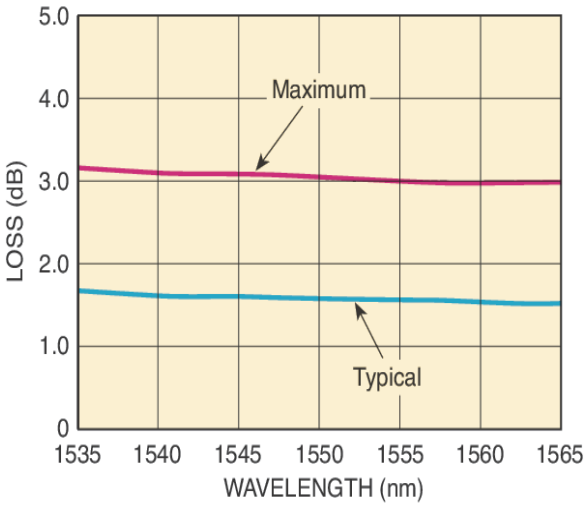
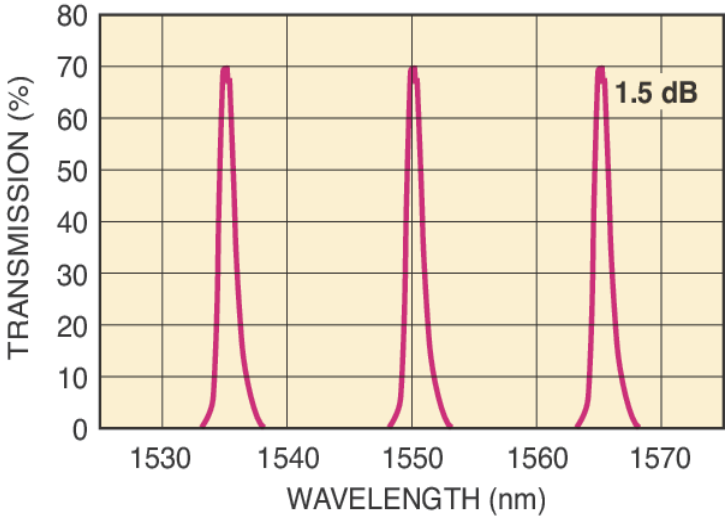
Mechanical Dimension (mm)



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

Typical Transmission Curve





Ordering Information

FOTF-	0 3	☐	☐	3	☐	☐	☐	☐
	Type	**Center Wavelength**	**Config.**	**Package**	**Fiber Type**		**Fiber Length**	**Connector**
		2050nm=1 2000nm = 2 1950nm= 4 1310nm = 3 1550nm = 5 1600nm = 7 1060nm = 6 Special = 0	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

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