

Manual Grating-Based Fiber Optic Tunable Filter

(patent pending)

Product Description

Agiltron's Manual Grating-Based Fiber Optic Tunable Filter provides a simple way to adjust the center wavelength of narrow band over wide band. Wavelength tuning is achieved by rotating a grating using a micrometer.

Based on a proprietary optics, Agiltron offers extremely low insertion loss, high stability, polarization independent operation, and high off-band suppression. It is tunable continuously over a wide spectral range. The device presents a most cost-effective solution for OEM applications from fiber optic networks to fiber sensing interrogation.



Performance Specifications

Parameter	Min	Typical	Max	Unit
Wavelength Tuning Range	1060 ± 15	1500 ± 20	2000 ± 20	nm
Tuning Resolution	-	0.02	-	nm
Insertion Loss*	1.1	-	1.6	dB
Bandwidth @-3dB	-	0.25	-	nm
Bandwidth @-20dB	-	0.75	-	nm
Polarization Dependent Loss	-	0.25	-	dB
Extinction Ratio (PM fiber only)	-	20	-	dB
Off-Band Suppression	-	45	-	dB
Polarization Mode Dispersion	-	-	0.5	ps
Return Loss	40	-	-	dB
Optical Power Handling (CW)	-	-	500	mW
Operating Temperature	0	20	60	° C
Storage Temperature	-10		70	° C
Dimension	88 x 32 x 24 mm			

* Excluding connectors loss

Features

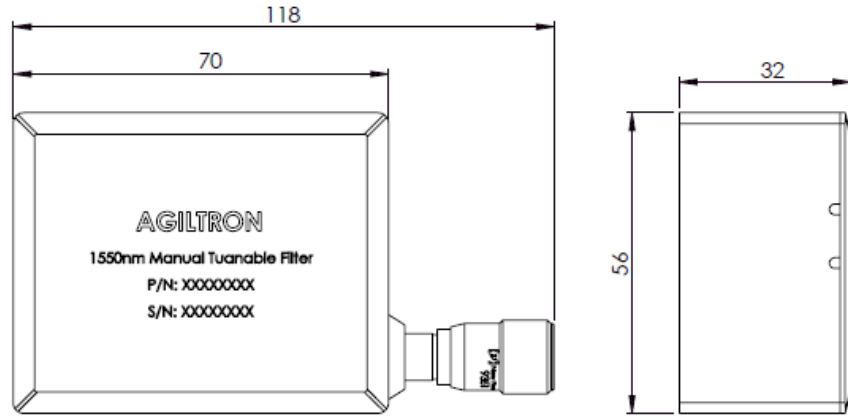
- Extremely low insertion loss
- Wide Tune Range
- High off-band suppression
- Uniform bandwidth
- High tuning resolution
- Compact and cost-effective

Applications

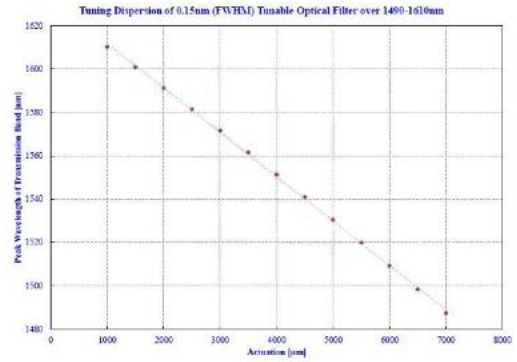
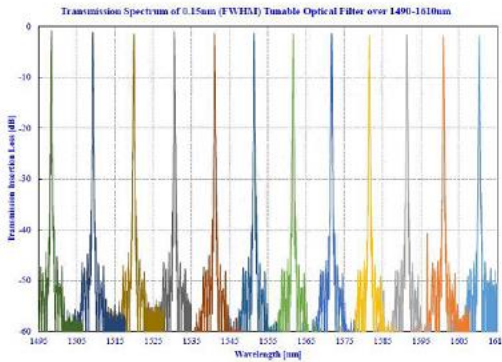
- DWDM networks
- Fiber Sensing
- ASE control
- Tunable Fiber Lasers

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Mechanical Dimensions (mm)



Spectrum



Ordering Information

FOTF-	03	<input type="checkbox"/>	1	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Type	Wavelength	Config.	Package	Fiber Type	Fiber Length	Connector			
	1060nm=1 1310nm=3 1550nm = 5 1600nm = 6 2000nm =2			SMF-28 =1 Panda PM1550 =5	900um loose 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		