

# 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	$1060 \pm 15$	1500±20	$2000 \pm 20$	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**

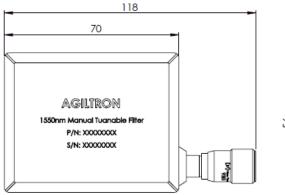
- Extremely low insertion loss
- Wide Tune Range
- High off-band suppression
- Uniform bandwidth
- High tuning resolution
- Compact and costeffective

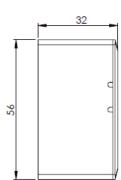
#### **Applications**

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

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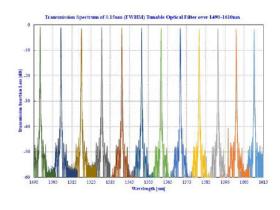
# Mechanical Dimensions (mm)

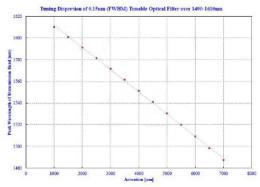




\*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

# **Spectrum**





## **Ordering Information**

FOTF-	0 3		1	2			
	Туре	Wavelength	Config.	Package	Fiber Type	Fiber Length	Connector
L		1060nm=1 1310nm=3 1550nm = 5 1600nm = 6 2000nm =2			SMF-28 =1 Panda PM1550 =5	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