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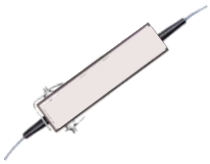
# 0706 Tunable Optical Filter

TF1000



## Fiber Fabry-Perot Tunable Filter, 0.1 nm Bandwidth, FSR 60 nm

The high performance tunable filter has many applications, as the key component for wavelength filtering of Fiber Bragg Grating (FBG) based sensor systems. It also allows many telecom DWDM systems to optimize EDFA receiver performance. It has proven its capabilities in early WDM applications and has paralleled the ever increasing performance demands of the telecom market. Without the added complexity of collimating optics and lenses, the filter achieves high finesse and maintains low loss making it a critical component to a broad range of applications.

### FEATURES

- 1 dB max. Low Insertion Loss
- All-Fiber Design
- 100 FITs max. Field-Proven
- Available in S, C & L Wavelength Bands
- 2000 min. High Finesse
- Excellent Thermal, Vibration & Long Term Stability

### USE IN

- EDFA Noise Filter
- WDM Channel Selector
- Optical Spectrum Analysis
- Tunable Laser
- Wideband Channel Switching
- WDMA Network
- Laser Stabilization

| | |
|---|---|
| S-band | 1480 nm to 1520 nm |
| C-band | 1520 nm to 1570 nm |
| L-band | 1570 nm to 1620 nm |
| Free Spectral Range | 60 nm typ. |
| Bandwidth | 0.1 nm max. |
| Finesse | 500 min. |
| Insertion Loss | 2.5 dB max.; 1.5 dB max. (Low Loss) |
| Polarization Dependent Loss | 0.5 dB max. |
| Power Handling | 200 mW max. |
| Tuning Voltage/FSR | 12 V max. |
| Capacitance | 3.0 µF max. |
| Slew Rate | 10 V/ms max. |
| Tuning Voltage | 70 V max. |
| Operating Temperatures | -20˚C to +80˚C |
| Change Voltage | 12 V max. |
| Change Insertion Loss | 0.5 dB max. |
| Dimension | 1/2x9/16x2 1/4 inches; 12.7x14.3x57.2 mm |
| Weight | 1 oz; 28g |

**Order notes to our customers:** **The default parameters are as follows. For special needs, please contact sales.**

**1) Connector FC/APC, 900 um, 1 m by default for all devices except for high power devices.**

**2) Slow axis working, fast axis blocked, connector key is aligned to slow axis by default for PM devices.**