

0506 Tunable Optical Filter

TF1003



Fiber Fabry-Perot Tunable Filter, 0.5 nm Bandwidth, FSR 100 nm

The TF1003 achieves high finesse and maintains low loss making it a critical component to a broad range of applications. For Fiber Bragg Grating (FBG) based sensor systems, it can be utilized as the key component for wavelength filtering. It allows many telecom DWDM systems to optimize EDFA receiver performance. It has proven its capabilities in 10 Gb/s DWDM transmission applications.

FEATURES

- High Finesse
- Good Thermal Stability
- Low Loss
- Low Power Consumption

USE IN

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

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Operating Wavelength Range	1450 nm to 1640 nm
Filter Type	Reflective
Free Spectral Range	90 nm to 110 nm
Bandwidth	0.5nm typ.
Finesse	200 typ.
Polarization Dependent Loss	0.1 dB typ.
Input Power	200 mW max.
Tuning Voltage per FSR	12 Volt max. for Full FSR
Tuning Voltage Range	30 Volt max.
Operating Temperature	0°C to +70°C
Storage Temperature	-20°C to +80°C
Dimension	2.5
Weight	1 oz
Pigtail Jacket - Loose	900 μm Buffer Tubing
Pigtail Length	1 m min.
Connector	SC/UPC