



Manual Fiber Optic Tunable Filter

(Simple the best tunable filter in the world)

Optical tunable filter with model number **OEF TF-100** is a thin film based manual tunable filter. With extremely low PDL, high wavelength resolution, high off and rejection and low return loss, **OEF TF-100** is a high performance, low cost manual fiber optic tunable filter. The typical bandwidth of the **OEF TF-100** are from 0.8nm to 12nm.

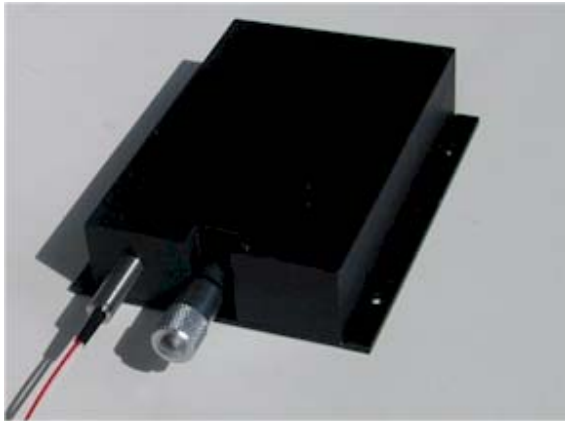


Figure 1. Manual Tunable Thin Film Filter

Main Specifications of 0.8nm Bandwidth **OEF TF-100**:

Specifications	Unit	
Wavelength Tuning Range*	nm	>40 over C-band.
Pass Band Width @ -3dB**	nm	<= 0.8 (typical)
Insertion Loss	dB	< 4.0
Resolution	nm	0.03
Polarization Dependent Loss	dB	< 0.1
Return Loss	dB	> 50
Off Band Rejection	dB	> 40
Power Handling	mW	> 500
Operation Temperature	°C	- 5 ~ + 70
Storage Temperature	°C	-40 ~ 85
Dimension	mm	56 x 85 x 20
Maximum tension load	N	5
Fiber Type of pigtail		1 meter long, SMF-28 with 900 micron tube

* Other bands are available on request.

** Other bandwidths are available on request.

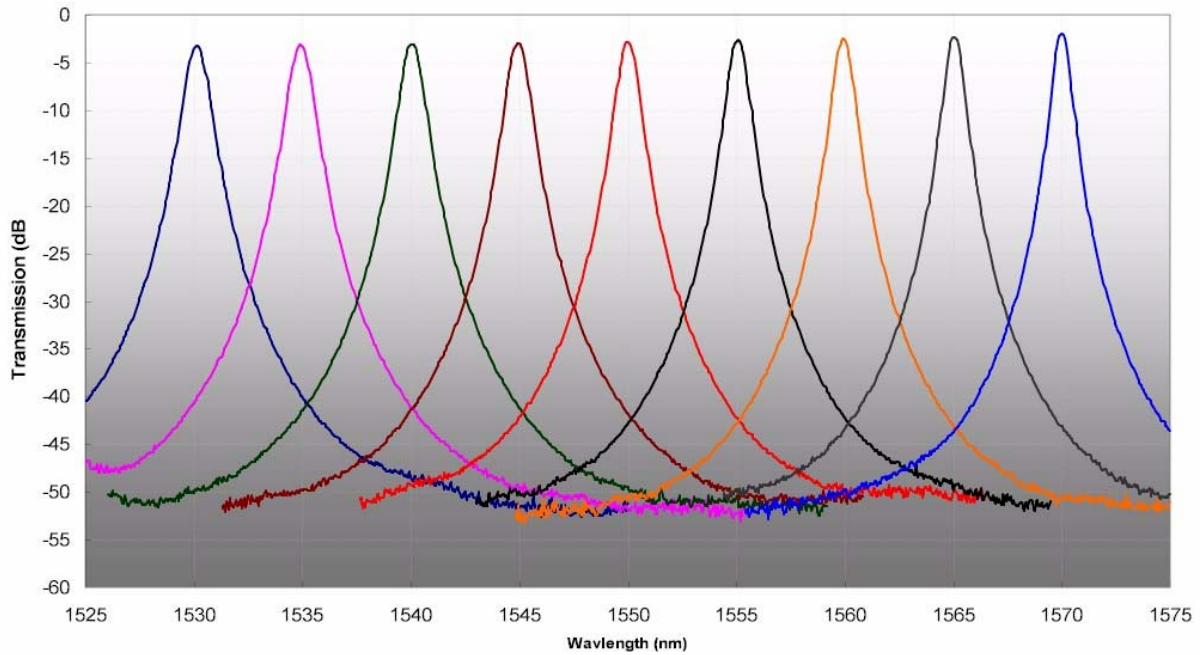


Figure 2. Typical Spectral Curve of 0.8nm Manual Tunable Thin Film Filter

Main Specifications of 3.0nm Bandwidth OEFTF-100:

Specifications	Unit	
Wavelength Tuning Range*	nm	1520nm – 1570nm
Pass Band Width @ -3dB**	nm	~3.3 – 3.8nm (FWHM)
Max. Insertion Loss	dB	< 2.90
Resolution	nm	0.03
Polarization Dependent Loss	dB	< 0.06
Return Loss	dB	> 55
Off Band Rejection	dB	> 40
Power Handling	mW	> 500
Operation Temperature	°C	- 5 ~ + 70
Storage Temperature	°C	-40 ~ 85
Dimension	mm	56 x 85 x 20
Maximum tension load	N	5
Fiber Type of pigtail		1 meter long, SMF-28 with 900 micron tube

* RoHS compliant

** Other bandwidth are available on request.

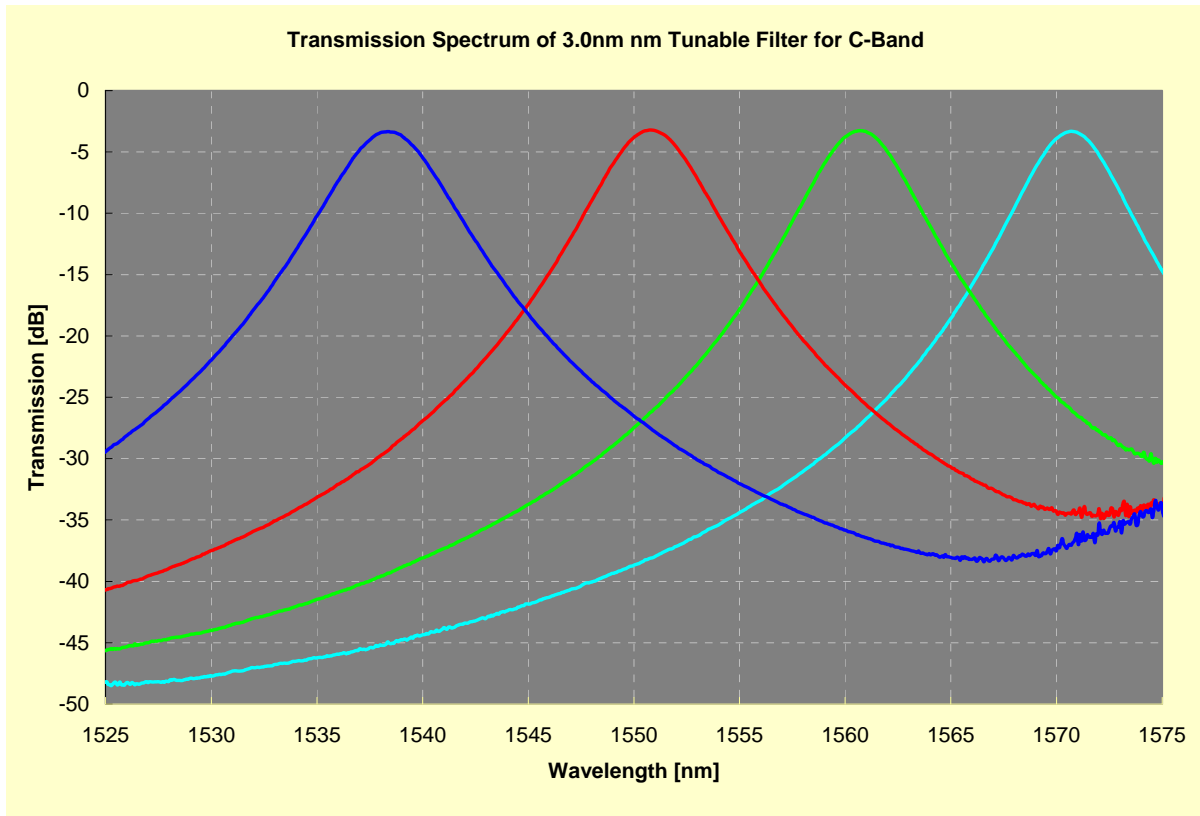


Figure 3. Typical Spectral Curve of 3.0nm Manual Tunable Thin Film Filter

Applications:

- Telecommunication
- Instrumentation
- Optical Signal Filter
- Biomedical
- Fiber optic sensing