

[OEOTF-500]

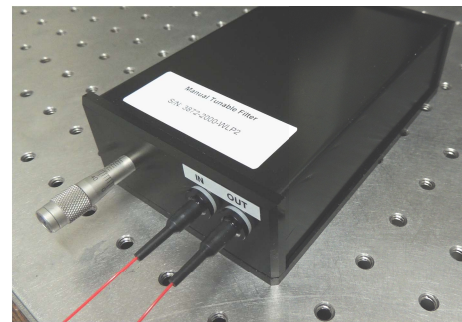
## Optical Tunable Filter (Manual/Electrical)

### Features:

- Narrow bandwidth filter
- Sharp filter response
- Wide tuning range
- Low insertion loss
- Low polarization dependent loss
- Uniform transmission bandwidth



OEOTF-500 Electrical



OEOTF-500 Manual

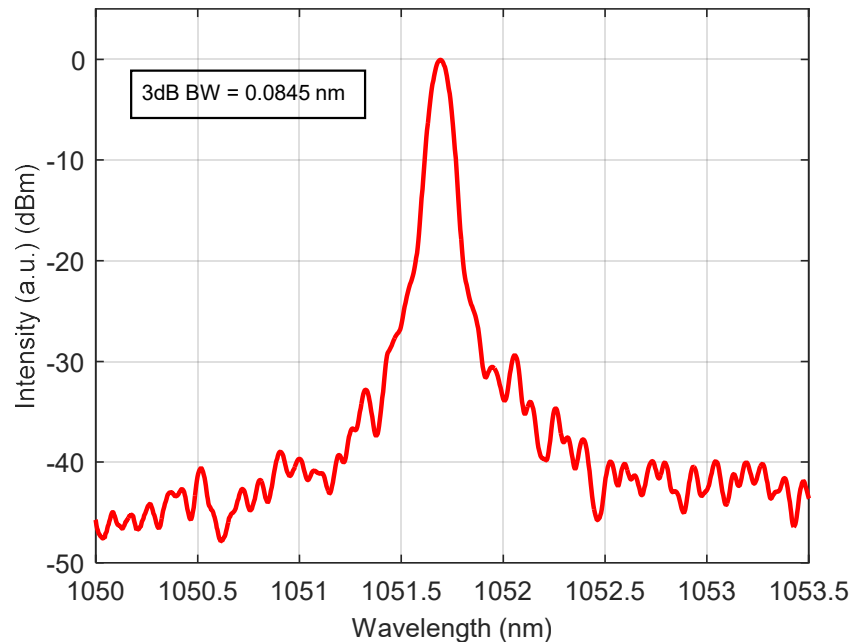
### Product description:

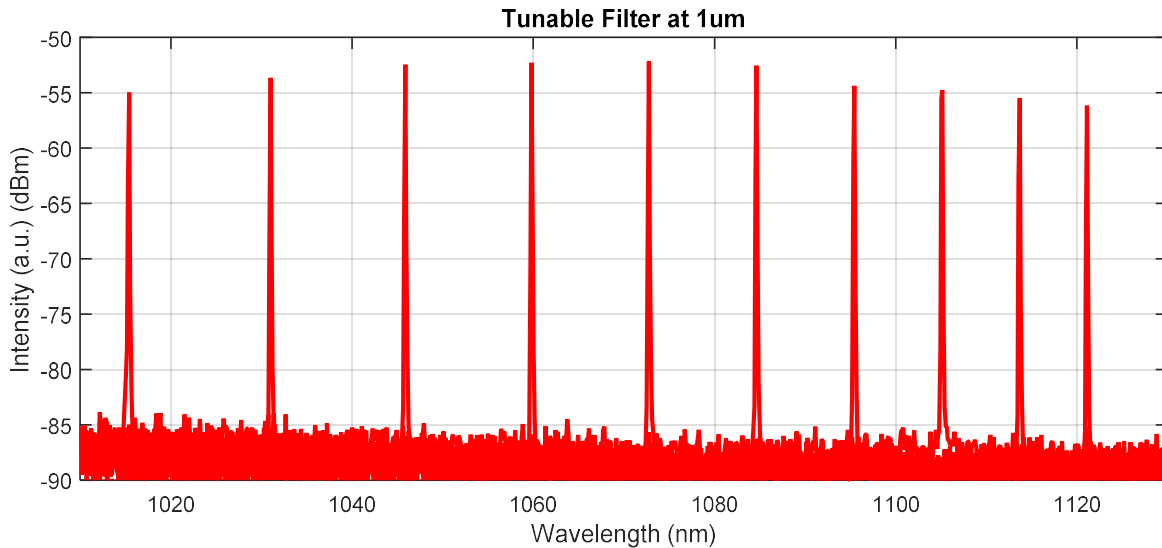
Based on a patent-pending grating-based design, we release manual and motor driven tunable optical filter on a wide wavelength range. It is used to adjust the center wavelength of a narrow transmission band over up to ~250 nm tuning range with a narrow bandwidth down to less than 0.1 nm (FWHM). This compact, rugged filter provides excellent performance in terms of insertion loss, PDL, tuning range and the uniformity of transmission bandwidth, which is a cost-effective solution for system integration applications as well as laboratory purposes.



Parameter	UV-VIS	850	1060	1310	1550	2000	2750
Center wavelength (nm)	400-700	700-1000	1020-1100	1280-1390	1480-1620	1620-2200	2700-2800
Tuning range (nm)	100	100	120	120	150	250	100
Minimum FWHM BW (nm)	~0.5	~0.5	0.08	0.08	0.08	0.1	0.4
Insertion loss (dB)*	< 4	<3	<3	<3	<3	<5	<6
Out band suppression (dB)	> 30	> 30	> 30	> 30	> 30	> 30	> 25
Max optical power (mW)	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Tuning resolution (nm)	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Filter type	Trans. /Ref.						Ref.
Fiber type	SM, PM						ZBLAN
Optical termination	Pigtail (FC, ST, SC or customer specify) or receptacles						
Tuning Control	Manual / Electrical						
Dimension (mm <sup>3</sup> )	150 x 100 x 50						

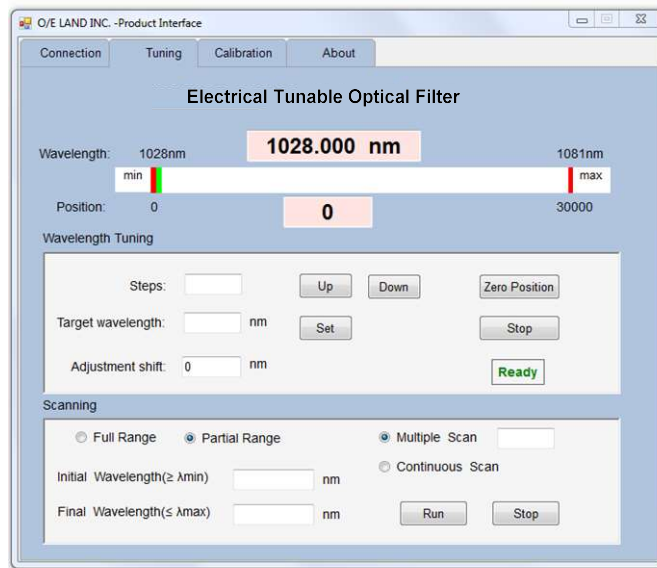
\*. Depends on the tuning range and CWL.





### Interface (Electrical version):

The main window of the interface in electrical version looks like the following figure, where user can easily set the target wavelength or scan (single or continuous) between two specified wavelengths.



### Ordering number:

<b>OEOTF-500-WL-TR-BW-Type:</b>	<b>WL</b>	<b>TR</b>	<b>BW</b>	<b>Type</b>
	Wavelength (nm)	Tuning range (nm)	3-dB BW (nm)	E: electrical M: manual
Example:	OEOTF-500-1310-60-0.8-E			