

狭帯域波長可変FBGフィルター  
Tunable FBG Filter

# YAIBA

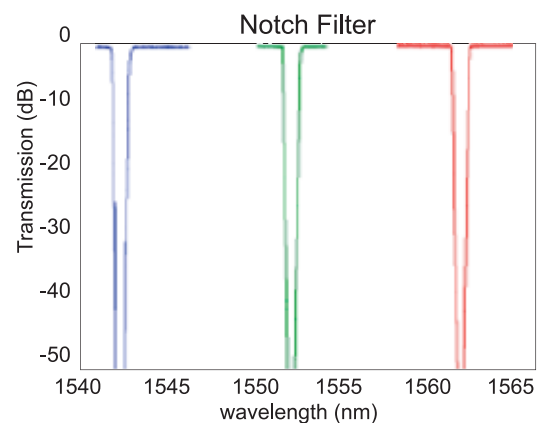
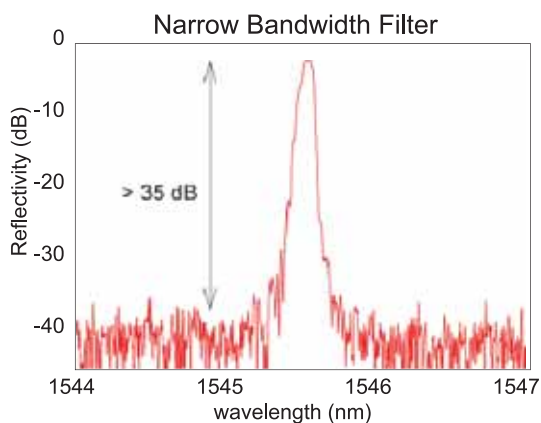
## WTF-100 Series

WTF-100は、狭バンド幅、高抑圧のFBGフィルターです。独自のFBG技術により、反射率や半値幅を維持したまま、波長中心を広帯域に可変することができます。この技術により、シャープなバンドパスフィルターや高抑圧のノッチフィルター、チューナブル光ADD/DROP素子等の幅広い用途での活用が考えられます。



FBG optical filters offer narrow bandwidth, sharp spectral roll-off and high spectral side lobes suppression. The tunable FBG filter from Alnair Labs uses a proprietary arc-bending technique to generate a uniform compressive strain onto the entire FBG allow a wide wavelength tuning range. The reflectivity and 3-dB bandwidth of the FBG show negligible variation over the tuning range. Using this technique, various widely tunable FBG-based devices such as narrow bandwidth filters, high rejection ratio notch filters and widely tunable optical add/drop multiplexers are realized.

### Exemplary Characteristic



### Specifications

Parameters	Specification
Center Wavelength	C & L-band (Other wavelength is possible)
3dB Bandwidth	0.1– 5 nm fixed (Chirped FBG is used for bandwidth > 1 nm)
Tuning Range	20 nm
Tuning Resolution	0.1 nm
Ripple within bandwidth	< 0.1 dB
SNR (outside of $\lambda_0 \pm 1$ nm)	> 27 dB
Insertion Loss	< 1.0 dB (without Circulator Loss)
Dimension	110 x 47 x 190 mm
Weight	1 kg