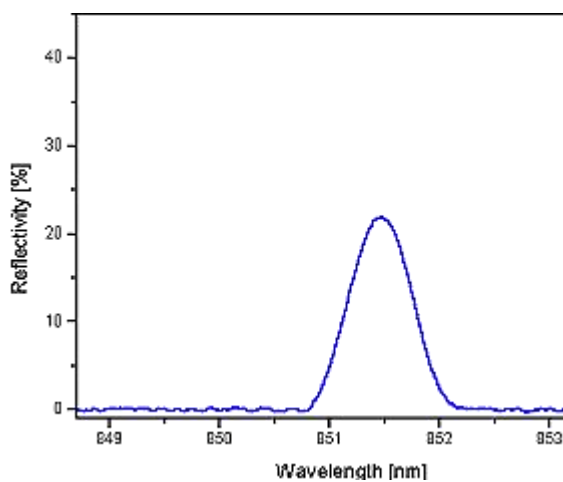


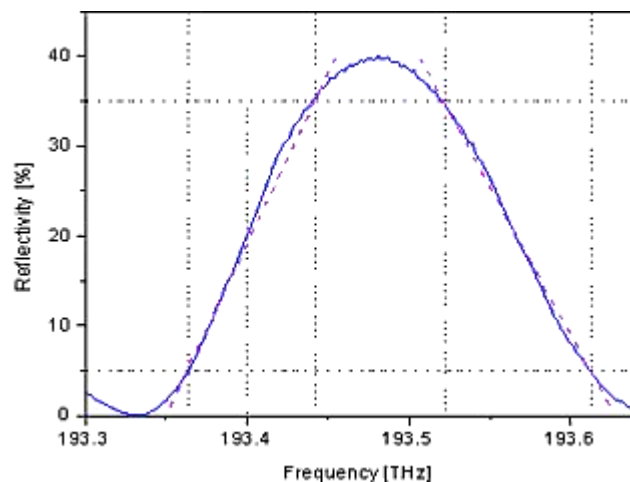
## wavelength locking FBG

### Description

FBG The wavelength locker FBG can effectively improve the pump laser output power and wavelength output accuracy and reliability. It eliminates the pump laser spectral mode hopping, and reduces the optical power intensity fluctuation due to the temperature and the pump driving current changing, therefore significantly improves the performance of the pump laser.



Peak locker FBG at 851.3 nm



Flank locker FBG at 193.4 GHz

### Feature

A very common application of FBGs is the stabilization of DFB laser modules. They are applicable to pump lasers for EDFAs 980nm / 1480nm as well as for WDM modules for the 1300nm / 1550nm band.

On demand we are able to produce also wavelength lockers at custom wavelengths like 1064nm or 850nm, down to 800nm at this time, even with PM fiber.

The gratings can be designed for peak locking or for linear flank locking (see examples above).

## Application

- EDFA pump laser wave-length locker
- DFB laser stabilisation for WDM application
- In-fiber resonators for RAMAN fiber lasers
- Tuneable laser modules

## Specification

Specification	Premium	Standard
Center wavelength (CW)	800 .. 1620nm	980nm; 1480nm; 1280 .. 1340nm; 1520 .. 1620nm
Reflectivity	3 .. 50% (typical)	
FWHM	0.08 .. 1.5 nm	
Insertion loss	<0.2 dB	
Proof test	<100 kpsi (SSM fiber) <50 kpsi (PM fiber)	
Minimum bending diameter	25 mm	
Termination	Bare fiber, FC/PC, FC/APC, ST, SC/PC, SC/APC, DIN, SMA	
Operating Temperature	5° C .. 120° C	

## Ordering information

WLFBG – 974.6– 4.5– 1.2– A– B– T

①    ②    ③    ④    ⑤    ⑥

①: Center Wavelength

②: Reflectivity

③: FWHM Bandwidth

④: Grating Profile: U: Uniform, A: Apodized

⑤: Optical Connector: A: FC/APC, B: FC/UPC, C: Customer D: None

⑥: Athermal Packaging: T: Standard, C: Customer, D: None