

Applications

- Pump laser wavelength locking
- Raman Pump lasers

Key Features

- Excellent wavelength control
- High sidelobe suppression ratio
- High pull strength
- Telcordia compliant
- RoHS compliant

Having an external cavity forming FBG wavelength locker will precisely lock the pump laser diode by feeding back a small portion of the laser signal that significantly improves the pump laser power and wavelength output accuracy and reliability. It eliminates the pump laser spectral mode hopping and reduces the power intensity fluctuation due to the temperature and pump driving current changes, therefore greatly improving the pump laser performance.

The FBG wavelength locker can be in the form of single or twin depending on different pump locking requirements.

Specifications

Parameter	Unit	Specifications	Tolerance
Center Wavelength	nm	970 – 990 1460 - 1490	+/- 0.25 nm +/- 0.25 nm
Reflectivity	%	0.5% - 10%	+/- 0.5
FWHM Bandwidth	nm	0.05 - 2.2	+/- 0.01
Grating Profile	-	Uniform Apodised	SLSR>10 dB SLSR>25 dB
Fiber Type	-	Corning HI980/PM980 or equivalent Corning HI1060 or equivalent Corning SMF 28/ Panda PM	-
Tensile strength	Kpsi	>150	-
Recoating	-	Acrylate	-
Fiber length	m	Min. 2.0	-
Optical Connector	-	No connector, FC/APC, FC/UPC	-