

Mail: FLT, Inc. 405 Waltham St.. Room 306 Lexington, MA 02421 info@fltphotonics.com www.fltphotonics.com

Feature :

- All-fiber tunable filter
- Pure axial compression tuning for large wavelength tuning range
- Low insertion loss
- High power handling
- Capability for tuning of various types of fiber grating

*Patents:

US 7801403 China ZL 2008 1 0211470.7

Applications :

- All fiber tunable filters
- Tunable lasers
- Fiber optic sensors
- Optic wave mixing

Specifications: ypical Tuning Range: >25 nm up to 50 nm Dimension: 124X55X40mm Weight: 0.9 kg

Contact us: To install your custom Fiber Gratings info@fltphotonics.com

Fiber Light Tuning Technology

Fiber Grating Tuner:

Innovative Patented* Technology for Fiber Grating Tuning

Fiber Bragg gratings (FBGs) are key photonic elements for broad applications. Tunable FBG devices provide tunable platform offering "all-fiber" advantages with extended application in optical fiber communication systems, tunable lasers and fiber optic sensors.

The fiber grating tuner is based on our innovative patented tuning technology that utilizes pure compressive strain tuning to achieve large wavelength tuning range.

The fiber grating tuner is designed to tune wavelength of various types of fiber gratings that include: fiber Bragg grating, phase-shifted fiber grating, or long period fiber grating, etc.

Tuning range: > 25nm up to 50nm

124 mm mm 6 Fiber Bragg Grating Tune (FBGT) www.fltphotonics.c







Typical spectra of center wavelength shift during tuning of 1560-nm FBG.

(a) Transmission spectra of the FBG and wavelength shift versus actuator displacement; (b) Reflection spectra of the FBG and -3dB spectral bandwidth variations during tuning.



Spectra of wavelength shifts during tuning of a 2001-nm and a 1073-nm FBG (a) transmission and reflection spectra of the 2001-nm FBG during tuning; (b) transmission and reflection spectra of the 1073-nm FBG during tuning.