

## Fiber Bragg Grating for Sensing

### Description

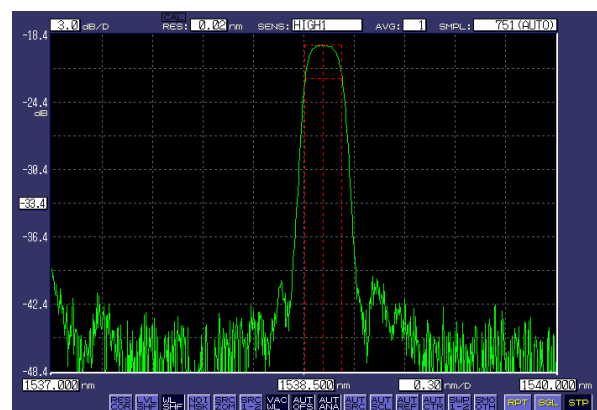
Fiber Bragg grating (FBG) is a kind of wavelength reflective optical device made on optical fiber through ultraviolet light and phase mask technology. It is a basic optical fiber sensing element and is widely used in many fields such as communication and sensors. T&S provides customers with various standard or customized high-performance apodized fiber gratings.

### Features

- High stability and reliability
- Customized grating length
- Hight SMSR

### Applications

- Various fiber bragg grating sensors



### Specification

Item	Unit	Specification			
Central Wavelength	nm	1510~1590			
Grating Type	--	Apodized fiber grating			
Wavelength Tolerance	nm	±0.3			
Grating Length	mm	3	5	10	15
Reflectivity	--	≥70%	≥75%	≥90%	≥90%
3dB Band Width	nm	≤0.7	≤0.7	≤0.3	≤0.3
Side Mode Suppression Ratio	dB	≥15			
Recoating	--	Acrylate / Polyimide			
Proof Test	Kpsi	≥100			
Fiber Type	--	SMF-28e / Polyimide coated optical fiber			
Connector Type	--	FC/APC or others			
Pigtail Length	m	1m (Typical)			
Operating Temperature	°C	SMF-28e fiber: -20~120; Polyimide coated optical fiber: -40~300			