

Fiber Bragg Grating for Sensing

Description

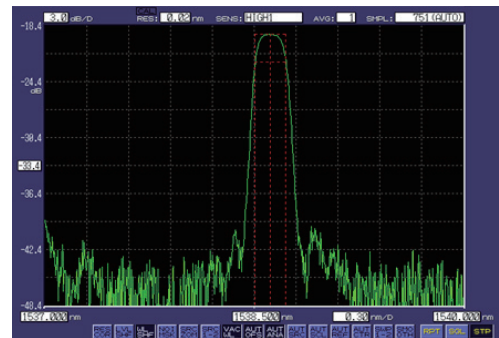
Fiber Bragg grating (FBG) is a kind of wavelength reflective optical device made on optical fiber through ultraviolet light and phase mask technology. It is a basic optical fiber sensing element and is widely used in many fields such as communication and sensors. T&S provides customers with various standard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

Features

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

Application

- Various fiber bragg grating sensors



Specification

Item	Unit	Specification			
Central Wavelength	nm	1510 to 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 to 120; Polyimide coated optical fiber: -40 to 300			