# **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			

Information and specifications are subject to change without notice. Please visit www.china-tscom.com for more information



