

## Bare FBG(Bare Fiber Bragg Grating Sensor )

**Application:** Structural Health Monitoring, Strain Monitoring, Composite Strain Monitoring

We manufacture bare FBG and supply to world, our FBG is specially designed for civil engineering, bridge monitoring, structural health monitoring. To measure microstrain,  $1.2\text{pm}(0.0012\text{nm})=1\mu\epsilon$




## Bare FBG Strain Sensor

- Center Wavelength: any wavelength between 1510 to 1590nm
- Grating Length: 10mm(standard), 1mm, 2mm, 3mm, 5mm, 15mm
- Stripping Area: 30mm
- FBG Type: Apodized
- Strain Range:  $\pm 1500\mu\epsilon$  (standard),  $\pm 5000\mu\epsilon$  (with coating),  $\pm 3000\mu\epsilon$  (without coating)
- Accuracy:  $\pm 1\mu\epsilon$

Grating Length:	1mm	2mm	3mm	5mm	10mm	15mm
Reflectivity:	>70%	>70%	>70%	>75%	>90%	>90%
Bandwidth at -3dB: nm	<0.7	<0.7	<0.7	<0.6	<0.3	<0.25

- SLSR: >15dB
- Proof test: > 100kpsi
- Coating: None, acrylate or polyimide
- Pigtail length: 1m (or specify)
- Operating temperature: Acrylate SMF-28e fiber (5-120C), polyimide SMF-28e fiber (-40 to 300C)
- Cable type: SMF-28e fiber, polyimide fiber, 0.9mm loosen tube, 3mm jumper cable, armor cable

## Welltech Instrument Company Limited

 Tel 852-23491224

 E-mail welltechltd@gmail.com

 www.fbg.com.cn

