



## FIBERA INC.

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### FIBER-BRAGG GRATING (FBG) TEMPERATURE SENSOR

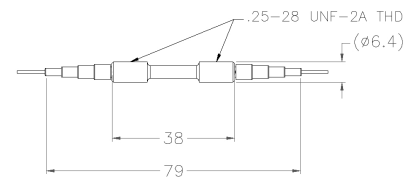
*\*Patents pending*

- Detachable and reusable when used with mounting brackets
- EMI resistant
- Ruggedly packaged in mechanical housings; suitable for indoors or outdoors
- Compact design and flexible configuration

The Fibera **FBG Temperature Sensor (FBTS)** is ruggedly packaged in a mechanical housing. When used with mounting brackets, the sensors are detachable and reusable, making the sensors very versatile comparing to conventional electrical or optical based designs. These sensors can be operated under harsh environmental conditions and be embedded in various kinds of structure members. It's also applicable for downhole applications. The FBTS is ideal for remote sensing / calibration and its compact form factor allows users to install these sensors in places that have stringent dimensional constraints.

### SPECIFICATIONS

Parameters	Specifications
Dimensions	79mm long x 6.4mm dia.
Operation Range	1520 – 1620nm
Center Wavelength	± 0.1nm
Bandwidth	≤ 0.2nm
Contrast	> 30 dB
Frequency Shift / °C	1.3GHz / 10.4pm
Resolution	0.1°C
Reflectivity	> 90%
Fiber Type	SMF – 28
Package	Loose tube
Storage Temperature	-40°C to 85°C
Operating Temperature	-5°C to 70°C
Pigtail Length	1.5m



Mechanical Dimensions

