

## Fiber Bragg Sensor Gratings

### Product Description:

A fiber Bragg grating (FBG) is a type of distributed Bragg reflector formed in a short segment of optical fiber. It reflects particular wavelengths of light and transmits all others. The Bragg wavelength will change when the fiber grating experience any change in fiber properties, such as strain or temperature which varies the reflective index or grating pitch. Precision Micro-optics offer high quality fiber Bragg sensor gratings with a wide wavelength range from 680nm to 1650nm. Athermal package is available for all fiber grating products.

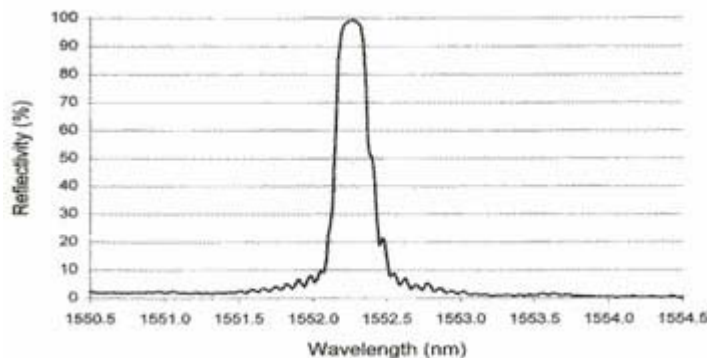
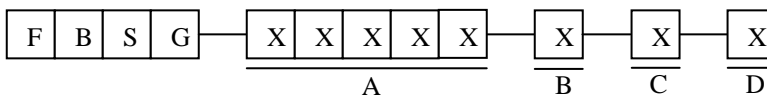


Figure 1: A typical reflective curve.

## Specifications:

Wavelength Range	680~1650nm
Center Wavelength Tolerance	±0.5 nm
Bandwidth @ 3dB	Typical 0.2nm
Bandwidth @ 3dB Tolerance	±0.1 nm
Reflectivity	Typical 90%
Reflectivity Tolerance	± 5%
Recoating	Acrylate or Polyimide
Fiber Length	1.5 meters
Athermal Package Dimensions	7.3mm( Φ )X54mm(L)

### Ordering Information:



<b>A</b>	<b>Center Wavelength</b>	<b>15501=1550.1nm</b>
		<b>09805=980.5nm</b>
		<b>XXXXX=Center Wavelength</b>
<b>B</b>	<b>Fiber</b>	<b>1=SMF-28</b>
		<b>0=Special</b>
<b>C</b>	<b>Reflectivity</b>	<b>1 = 90%</b>
		<b>2 = 50%</b>
		<b>0 = Special</b>
<b>D</b>	<b>Connector</b>	<b>1 = FC/PC</b>
		<b>2 = FC/APC</b>
		<b>3 = SC/PC</b>
		<b>4 = SC/APC</b>
		<b>5 = LC/PC</b>
		<b>0 = Special</b>