

# Polarization Maintaining FBG

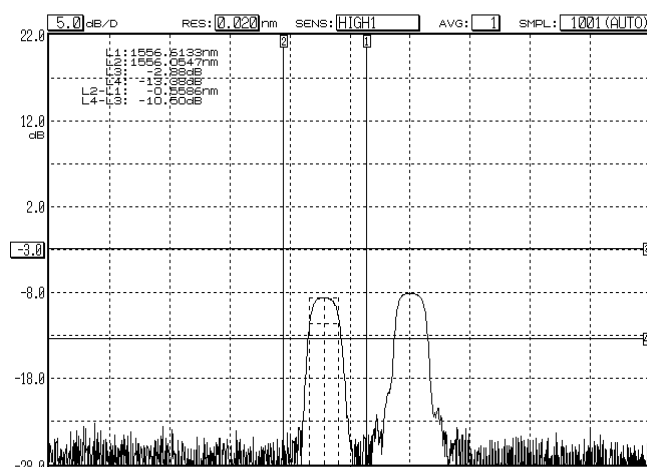
Polarization Maintaining FBG is inscribed into a polarization maintaining fiber, the use of polarization maintaining fiber can ensure that the polarization direction of linearly polarized light remains unchanged, improve the coherent signal-to-noise ratio, and achieve high-precision measurement of physical quantities.

## Key Features

- Dual center wavelength, low polarization crosstalk
- Low loss, high birefringence
- High reliability and high signal-to-noise ratio

## Applications

- Special fiber grating sensor
- Special fiber grating filter
- Polarization beam splitter
- High power fiber laser



## Specifications

Parameter	Unit	Value			
Center Wavelength	nm	1460 ~ 1610			
Wavelength Tolerance	nm	+/-0.5			
FBG Length	mm	3	5	10	15
Reflectivity	%	≥50%	≥70%	≥85%	≥90%
Bandwidth (FWHM)	nm	≤0.7	≤0.5	≤0.3	≤0.3
SLSR	dB	≥10	≥10	≥15	≥15
FBG Recoating	--	None, Acrylate, Polyimide or custom			
Tensile Strength	kpsi	≥100			
Fiber Type	--	PM1550, or custom			
Pigtail Length	m	Standard 1m both ends, or custom			
Optical Connector	--	Bare Fiber, FC/APC, SC/APC, or custom			
Operating Temperature	°C	-40 ~ +120			