

## Radiation hard FBG

### Description

Our radiation hard fiber Bragg grating (FBG) technology is recognized as the most promising and successful optical fiber sensing technology to be deployed in radiation environment

engineering application. Installation is easy as FBG sensors can be mounted using conventional techniques and is designed for use a single of in series as part of a FBG array of sensors.

### Feathure

Radiation proof

High temperature endurance

Good performance cost ratio

### Application

- Radiation environment
- Nuclear industry

### Specification

Parameter	Unit	Specifications	Remark
Wavelength	nm	140-1620	Other wavelength available upon request
Wavelength tolerance	nm	$\pm 0.5$	
Relectivity	%	50-80	$\pm 5$
Relection FWHM	nm	0.3	$\pm 0.2$
FBG length	mm	1-24	-
SSR(Sidelope suppression ratio)	dB	Min 15	-
Fiber type	-	Radiation hard polyimid coated fiber	-
Recoat	-	Polyimide	$\pm 5\mu\text{m}$ uniformity
Temperature endurance	$^{\circ}\text{C}$	300	
Optical connector	-	A.FC/APC B.FC/UPC C.SC/APC D.LC/APC	Other connector available upon request

## Ordering Information :

RFBG – 1550.1 – 99.5 – 20 – A – 30

①      ②      ③      ④      ⑤

① : Center Wavelength

② : Reflectivity

③ : Bandwidth (FWHM)

④ : Optical Connector: A: FC/APC, B: FC/UPC, C: Custom, N: None

⑤ : SSR