

Radiation hard FBG Sensor

Preliminary

Technica SA

Applications

- Radiation environment
- Nuclear industry

Key Features

- Radiation proof
- High temperature endurance
- Good performance cost ratio

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

Specifications

Parameter	Unit	Specifications	Remark
Wavelength	nm	1460 to 1620	Other wavelength available upon request
Wavelength Tolerance	nm	+/- 0.5	
Reflectivity	%	50 to 80	+/- 5
Reflection FWHM	nm	0.3	+/- 0.2
FBG Length	mm	1 – 24	-
Sideloop suppression ratio	dB	Min. 15	-
Fiber Type	-	Radiation hard polyimide coated fiber Regular SMF28 compatible: polyimide coating 80um cladding fiber /Hi NA 80um cladding fiber	-
Recoat	-	Polyimide	+/- 5 um uniformity
Temperature endurance	°C	300	
Optical Connector	-	FC/APC,FC/UPC	Others available upon request

Ordering info: RFBG- ①①-②②②②-③③-④④④④-⑤

①①: Reflectivity. ②②②②: Wavelength. ③③: Bandwidth.

④④④④: Temperature endurance

⑤ : Connector type A:FC/APC, B:FC/UPC, C: Specify ,0:None

Technica S.A. undertakes a continuous and intensive product development to ensure its products perform to highest technical standards. As a result, the specifications in this document are subject to change without notice.

Technica S.A. Headquarters
Poststrasse 12
CH-6301 Zug
Switzerland
www.technicasa.com

Technica S.A. Beijing Operation
Tel: +86 10 62988792
Fax: +86 10 62985573
Email: alice@technicasa.com