

High Temperature Fiber Bragg Grating

Technica SA

Applications

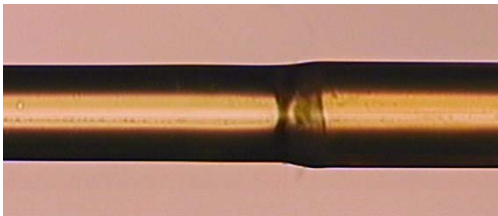
- Oil & Gas flowline monitoring
- Downhole monitoring
- Temperature / strain monitoring in power generators
- Transmission line health monitoring

Key Features

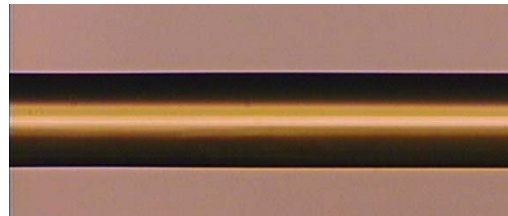
- High temperature resistance
- High tensile strength
- EMI immunity
- Explosion proof
- Small size & weight
- Good performance cost ratio

Description

High Temperature Fiber Bragg Grating is imprinted on polyimide coated optical fiber, which is thermally stable to over 300°C and chemically inactive in the presence of composite resins. Based on Technica SA's special FBG manufacturing process, the FBG optical performance remain stable at high temperature environment which enable the precise strain and temperature measurement .



Stripping Junction recoating



Stripping area recoating

Specifications

Parameter	Unit	Specifications	Tolerance	Remark
Max. Operation Temperature	°C	300	+/- 10	Higher operation temperature is available upon request
Operation Wavelength	nm	1460 – 1620	-	Other wavelength is also available upon request
Reflectivity	%	> 20	-	-
FWHM	nm	Typ. 0.3	+/- 0.2	-
Recoat	-	Polyimide Recoat	-	Excellent recoating Uniformity : +/- 5 um
Grating Length	mm	1 – 24		
Sidelobe Suppression Ratio	dB	>15	>15	-
Proof Test	kpsi	>100		-
Optical Connector	-	FC/APC, FC/UPC or other options		
Optical Fiber	-	OFS BF06158-02 Regular SMF28 compatible: polyimide coating 80um cladding fiber /Hi NA 80um cladding fiber		

Ordering info: HTFBG-①①-②②②②-③③-④④④-⑤

①①: Reflectivity. ②②②②: Wavelength. ③③: Bandwidth. ④④④: 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.

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