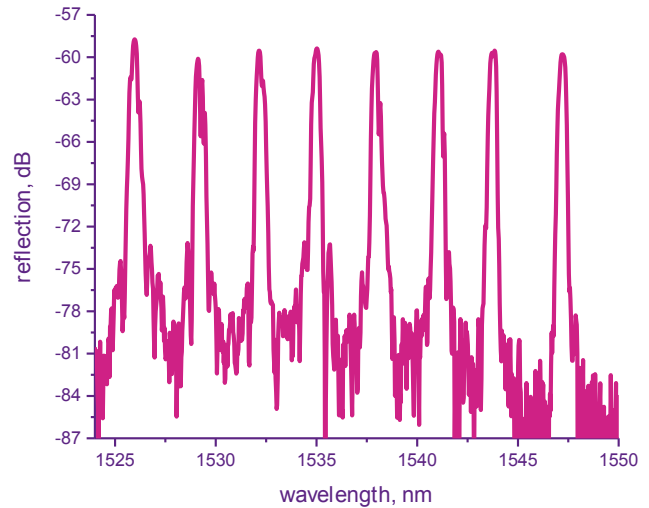


FIBER BRAGG GRATINGS (FBG)

FEMTOSECOND FBG

ARTICLE GTL-FBG-FS-880

Femtosecond FBGs can be made into all optical transparent fiber materials with a broad variety of fiber coatings without stripping the coating from the fiber and without recoating in the future. Optical sensors based on fs-FBGs let monitor temperature, pressure, and deformation of such objects that hadn't been eligible for sensing before. FBGs written in radiation-resistant pure silica core fibers are ideal for use in the nuclear industry. fs-FBG inscription through the fiber protective coating has excellent mechanical strength that is very important in strain sensing applications.



FBG CHARACTERISTICS	GTL-FBG-FS-880	TOLERANCE/NOTE
Wavelength range, nm	1000 ÷ 2300	± 0.1 ÷ ± 1 custom request
Types of fiber	Single-Mode, PM, Double clad, LMA, Rad resistance	or custom
Reflectivity, %	0.01 ÷ 95	2 ÷ 5 custom request
Bandwidth (FWHM), nm	0.05 ÷ 1	custom request
SLSR, dB	< 8 ÷ 25	custom request
FBG Pigtail Length, m	≥ 0.5	or custom
FBG inscription through the fiber protective coating	Acrylate, Polyimide	or custom
FBG Recoating	Aluminium, Copper	or custom
Tensile Strength, kpsi	> 100	
Optical Connector	Bare fiber, FC/APC, LC/APC	or custom

The configuration can be changed at the customer's request. The parameters specified in this specification can be changed in accordance with the terms of reference.