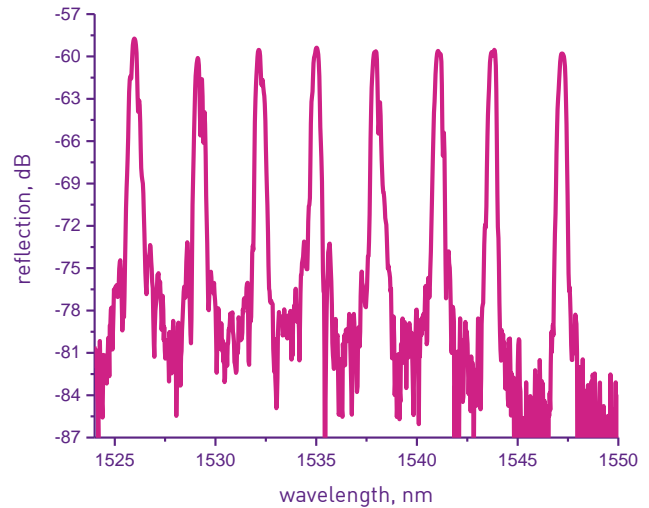


# FIBER BRAGG GRATINGS (FBG)

## FEMTOSECOND FBG

### ARTICLE GTL-FBG-FS-880

Femtosecond FBGs can make into all optical transparent fiber materials with a broad variety of fiber coatings without strip the coating from fiber and without recoated in 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 using in nuclear industry. Fs FBG inscription thought the fiber protective coating has excellent mechanical strength that very important in strain sensing application.



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 thought 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.