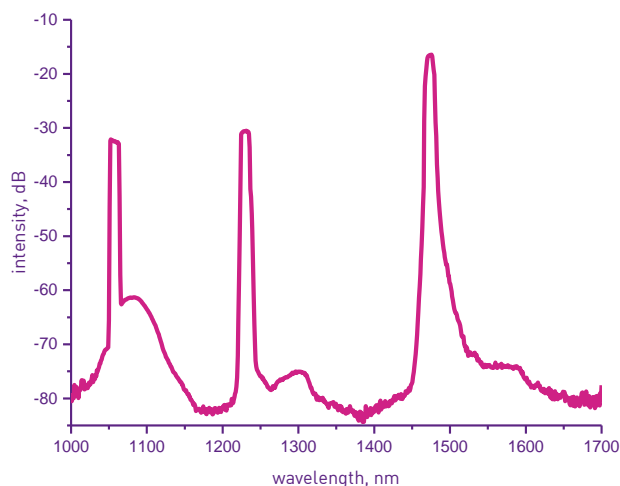


FBG SPECIFIC APPLICATION TYPE

FBG RAMAN LASER (NOT REMOVING COATING)

ARTICLE GTL-FBG-RL-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. It is possible to write FBGs pair into active fibers (Yb, Er, Tm, Bi, Ho doped fibers). Thus additional splicing losses are minimizing and laser efficiency increase. Highly efficiently multicascaded Raman lasers based on phosphosilicate fibers can be created at different wavelength. Raman shift by 1330 cm^{-1} in opposite to Ge-doped fibers is approximately three times larger. Output emission spectrum of two-cascade 1.48 μm Raman fiber laser is presented in the graph.



FBG CHARACTERISTICS	GTL-FBG-RL-880	TOLERANCE/NOTE
Wavelength range, nm	1000 ÷ 2300	± 0.1 ÷ ± 1 custom request
Types of fiber	Single-Mode, PM, Double clad, LMA	or custom
Reflectivity, %	5 ÷ 99,9	2 ÷ 5 custom request
Bandwidth (WFHM), nm	0.15 ÷ 1,2	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
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.