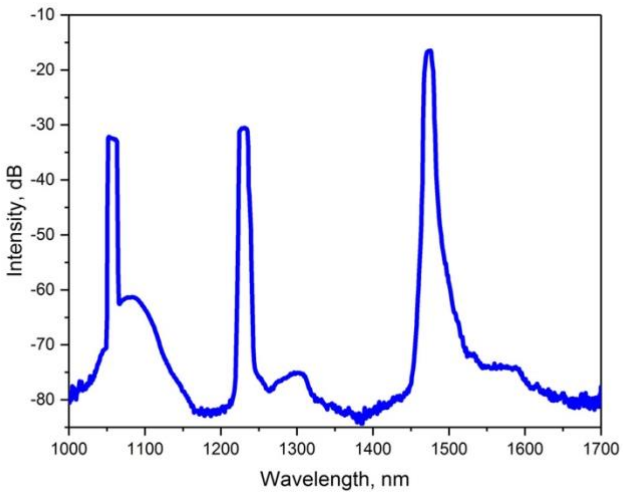
# FBG SPECIFIC APPLICATION TYPE

**FBG RAMAN LASER**

## ARTICLE GP-FBG-TRL-P25

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 | GP-FBG-TRL-P25 | TOLERANCE/NOTE |
|---|---|---|
| Wavelength range, nm | 1240, 1270, 1484 | ± 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 (FWHM), nm | 0.15 ÷ 1.2 | custom request |
| SLSR, dB | ~ 8 | 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.