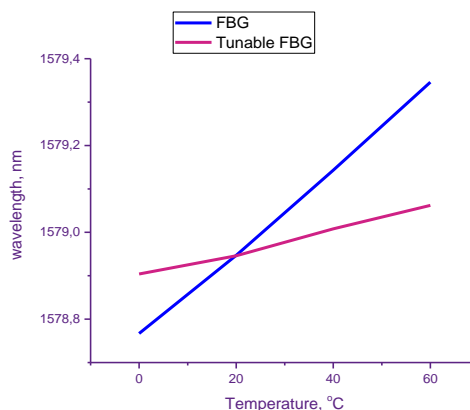
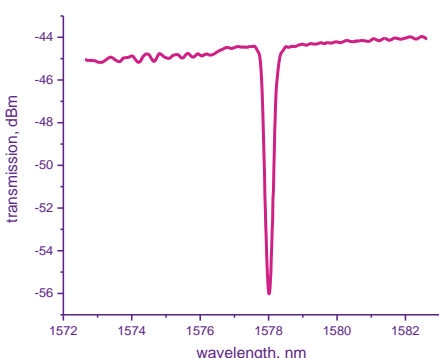


FIBER BRAGG GRATINGS (FBG)

TUNABLE FBG

ARTICLE GTL-FBG-TB-890

Tunable FBG is a good solution for many applications including where corrected central Bragg wavelength is necessary. Central wavelength of FBG strongly depends on applied stresses. The mechanics induced strain to the FBG shifting linearly its central wavelength. Relative strain sensitivity of FBGs wavelength is $0.78 \cdot 10^{-6} \mu\text{strain}^{-1}$. The tunable FBGs are boxed and operated manually. Athermal performance with adjustment range of 3 nm is also possible. Optical connectors or bare fiber are a possible bundled of equipment.



| FBG CHARACTERISTICS | GTL-FBG-TB-890 | TOLERANCE/NOTE |
|---|---|----------------------------|
| Wavelength range, nm | 600 ÷ 2300 | ± 0.1 ÷ ± 1 custom request |
| Types of fiber | Single-Mode, PM, Double clad, LMA | or custom |
| Wavelength to quick order, nm | 633, 650, 852, 976, 1030, 1060, 1064, 1063 ÷ 1078, 1080, 1125, 1150, 1510 ÷ 1580, 1551, 1650, 1874 ÷ 1878, 1900, 1908, 1952, 2300 | ± 0.1 ÷ ± 1 custom request |
| Thermal Wavelength stability (0 ÷ +60 °C), nm | < 0.18 | |
| Reflectivity, % | 5 ÷ 99 | 2 ÷ 5 custom request |
| Bandwidth (WFHM), nm | 0.05 ÷ 1,2 | custom request |
| FBG Length, mm | 1 ÷ 20 | custom request |
| Adjustment range, nm | 3 | |
| SLSR, dB | > 8 | custom request |
| FBG Pigtail Length, m | ≥ 0.5 | or custom |
| FBG Recoating | custom request | |
| Tensile Strength, kpsi | > 100 | |
| Optical Connector | Bare fiber, FC/APC, LC/APC | or custom |
| Package dimensions (LxWxH),mm | 66 x 18 x 16 | |

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.