

FIBER BRAGG GRATINGS (FBG)

TUNABLE FBG

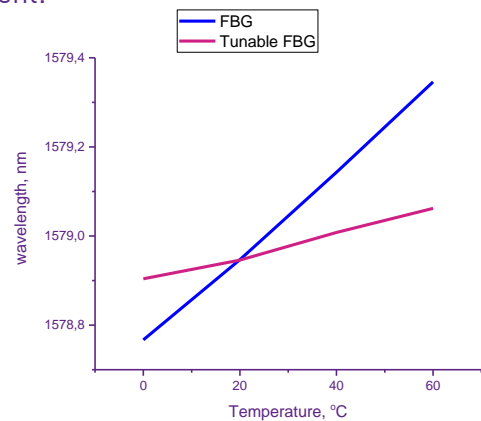
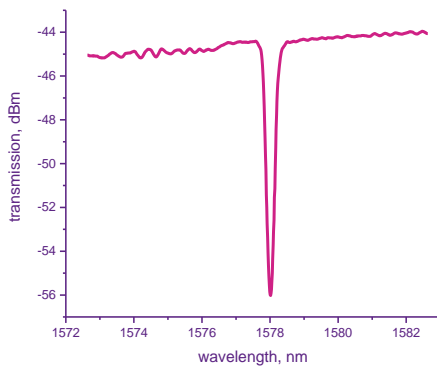


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ARTICLE GTL-FBG-TB-890

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 2nm 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, 780, 794, 797, 799, 801, 809, 830, 852, 895, 940, 976, 1030, 1057, 1060, 1064, 1080, 1125, 1150, 1178, 1240, 1270, 1310, 1484, 1510 ÷ 1580, 1650, 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	2	
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.