

FBG SPECIFIC APPLICATION TYPE

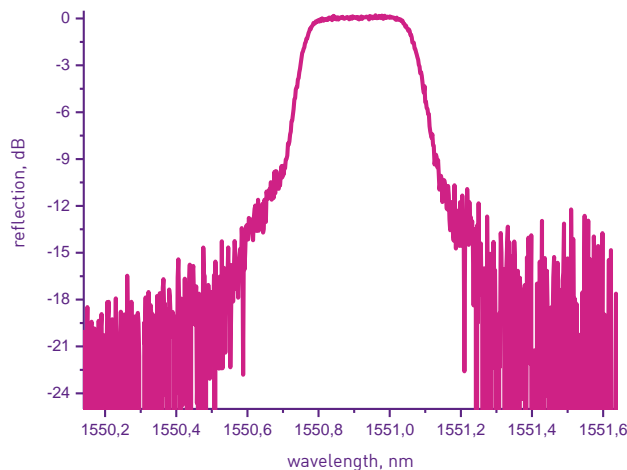
ARTICLE GTL-FBG-WDM-810

FBGs with narrow spectral bandwidth are good elements for filtering optical signals. Such FBGs are widely used as optical add/drop multiplexer in WDM systems. High level of SLSR is allowed to avoid adjacent channel crosstalk in systems. A flat – top reflection spectrum and steep spectral roll-down are a feature these FBGs. Athermal packaging FBG with wavelength stability < 0.16 nm for temperature range 0-70 °C is required for stable operation.

FBG WDM ITU FILTER 100/200GHZ



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FBG CHARACTERISTICS	GTL-FBG-WDM-810	TOLERANCE/NOTE
Wavelength range, nm	1530nm-1565nm (C Bands), or custom 1510nm-1580nm	± 0.1
Types of fiber	Corning SMF-28	or custom
Reflectivity, %	10% to 99%, Flat-top typical > 99.5%	2 ÷ 5
Bandwidth (WFHM), nm	100/200 GHz on ITU. For 100GHz: at level -0.5 dB > 0.3 nm and at -20 dB is 0.65 nm	or custom
Channel Isolation, dB	> 20	
Insertion Loss , dB	< 0.15	
Cladding Mode Loss, dB	< 0.5 (only for cladding mode suppressed fiber)	custom
FBG Pigtail Length, m	≥ 0.5	
FBG Recoating	None, Acrylate, Polyimide	or custom
Thermal Wavelength stability (0 ÷ +70 °C), nm	< 0.16	
Optical Connector	Bare fiber, FC/APC, LC/APC	or custom
Thermal Package	66mm x 18mm x 12mm.	

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.