

## 50/100/200GHz FBG filter

# Technica SA

### Applications

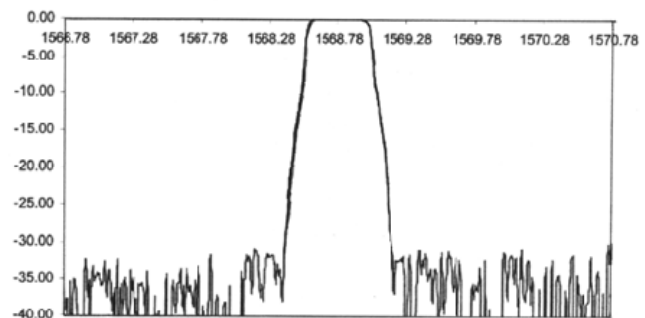
- DWDM system 50/100/200 GHz in fiber narrow band signal filtering
- ASE filtering and wavelength blocking
- OADM module

### Key Features

- High spectral efficiency and low insertion loss
- Good Dispersion characteristics
- Low cladding mode loss

### Specifications

With the deployment of DWDM systems, high isolation channel is necessary to avoid the cross talk and Technica offers reflection filters based on fiber Bragg gratings featuring flat top response and steep roll down spectral that are available individually packaged or be combined with multiple filters to form a complete add/drop module.



Typical 100 GHz spacing WDM FBG

Parameter	Unit	Specifications	Tolerance
Center Wavelength	nm	C +L band	Or custom
Reflectivity	%	10 - 99.99	Top flat: typical >99.5 %
FWHM Bandwidth	nm	50/100/200 GHz Spacing ITU Grid at 100 & 50 GHz spacing Or custom	Bandwidth: 100GHz : Reflection @ - 0.5 dB :> 0.4nm Reflection @ - 25 dB: 0.75 nm Bandwidth: 50GHz : Reflection @ - 0.5 dB :> 0.25nm Reflection @ - 25 dB: 0.5 nm
Adjacent Channel Isolation	dB	>25	
Insertion loss	dB	Typical 0.2	<0.1 with radiation mode suppressed fiber
Cladding mode loss	dB	<0.4	With double cladding suppressed fiber
Fiber termination	-	Bare fiber FC/APC,FC/UPC	Or custom
Fiber Type	-	SMF-28 or compatible <b>Regular SMF28 compatible: Acrylate/ polyimide coating 80um cladding fiber /Hi NA 80um cladding fiber</b>	Or custom
Athermal Package	mm	<b>φ7 x 60</b> cylindrical type <b>60x6x6</b> rectangular type	Thermal stability: <1pm/ ° C

Ordering info: DWDMFBG-①①-②②②②-③③-④

①①: Reflectivity. ②②②②: Wavelength. ③③: Bandwidth

④: Connector type A:FC/APC, B:FC/UPC, C: Specify ,0:None

Technica S.A. undertakes a continuous and intensive product development to ensure its products perform to highest technical standards. As a result, the specifications in this document are subject to change without notice.

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