

SFBG-50 • 50 GHz DWDM Filter

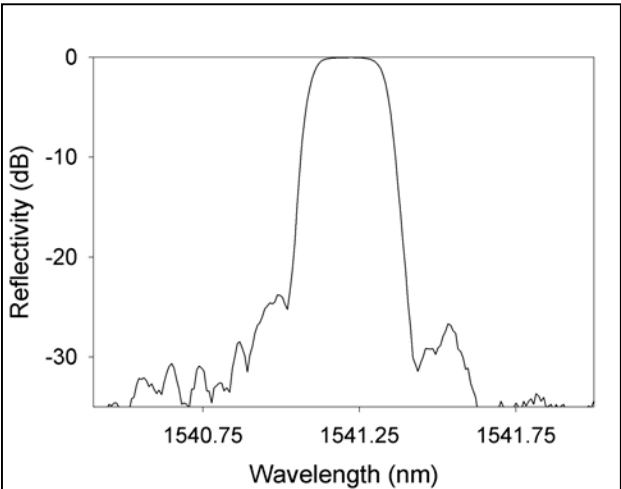
- 50 GHz channel spacing on ITU grid
- 30 dB of adjacent channel rejection
- 99.9% reflectivity
- 30 pm stability
- GR-1209/1221 compliant



Specifications

Optical

SFBG-50, a member of the SmartFBG™ family, is an athermally packaged 50 GHz channel spacing DWDM filter. Highly sophisticated design software coupled with a unique manufacturing process allows Templex to fabricate SmartFBGs to satisfy any arbitrary transfer function. For high performance, fast turnaround times and a variety of packaging and connector options, contact Templex Technology.



Parameter	Specification
Center Wavelength	C Band - ITU
Center Wavelength Accuracy	+/- 15 pm
Wavelength Stability	<30 pm over full operating range
Reflectivity	>99.9%
Bandwidth	
Reflection BW @ -0.5 dB	>0.20 nm
Reflection BW @ -20 dB	<0.40 nm
Isola	
Adjacent Channel	>30 dB
Non-adjacent Channel	>35 dB
Polar	<0.2 dB
Cladding Mode Loss	<0.2 dB

Mechanical

Parameter	Specification
Package Dimensions	70 mm (L) x 7 mm (Φ)
Weight	15 g
FO Connector	FC, SC, or pigtail
Marking	Serial Number & Model

Environmental

Parameter	Specification
Temperature Range	
Operational	0°C to 70°C
Storage	-40°C to 100°C
Com	Telecordia GR-1209 & GR-1221