

IXC-FBG-PS

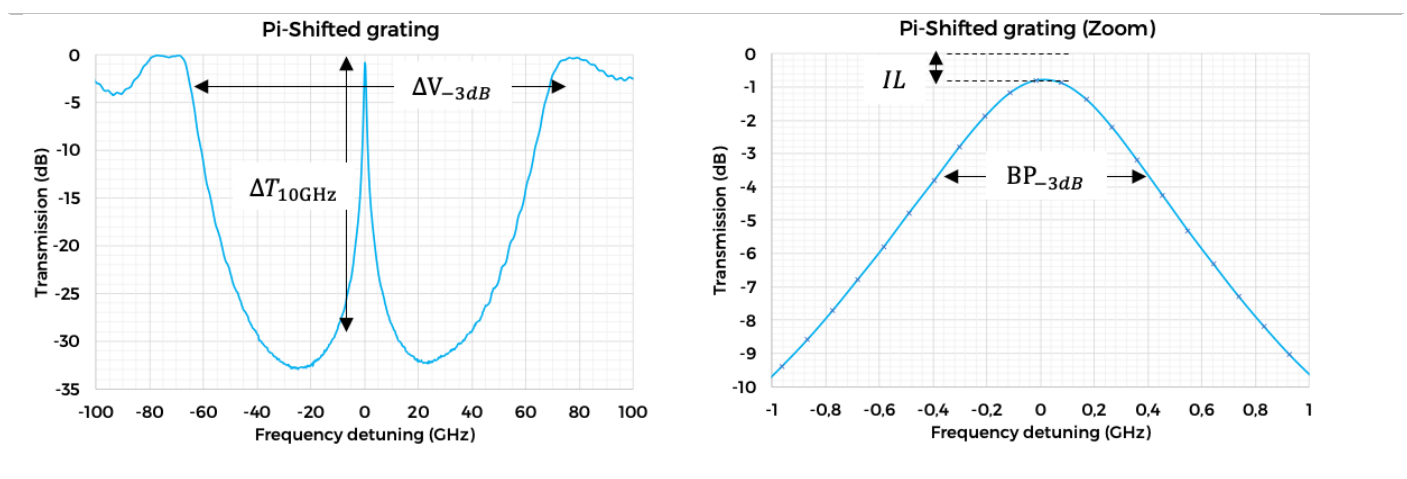
Ultra-Narrow Bandwidth Pass-band Filter based on Fiber Bragg Grating

TECHNICAL SPECIFICATIONS

Parameters (measured in transmission)

iXblue part number	IXC-FBG-PS
Center Wavelength ¹	C-Band +/- 0.01 nm
Rejection bandwidth ΔV_{-3dB}	> 125 GHz
Bandpass linewidth BP_{-3dB}	< 1 GHz
Rejection level ΔT_{10GHz}	> 25 dB
Insertion loss IL ²	< 1 dB
Thermal stabilization in [20 ; 70]°C	< 2 pm/°C
Wavelength shift in [- 5 ; 70]°C	< 150 pm
Input power (max.) ³	1 mW

Typical spectrum (measured in transmission)



Comments:

Specifications are subject to change without notice

¹ Referenced to vacuum, slow axis

² By design

³ Without thermal dissipation (athermal package)

Athermal Fiber Bragg Grating

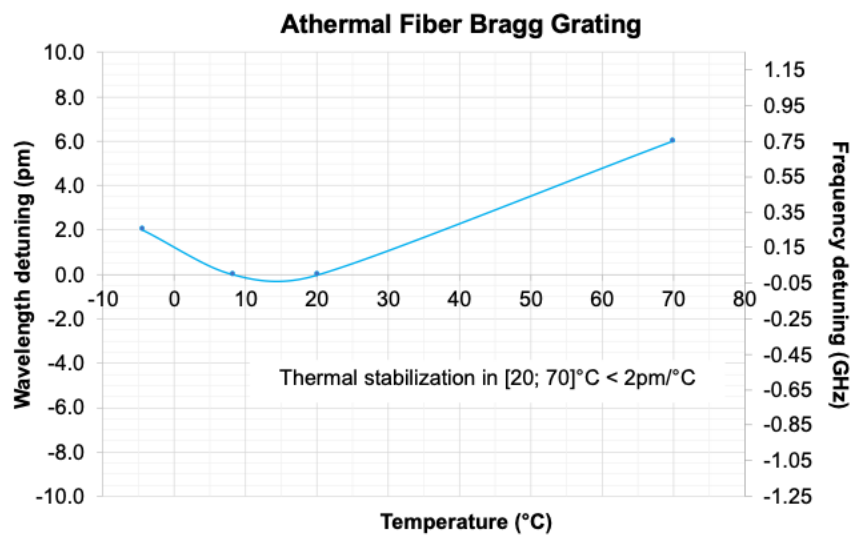
TECHNICAL SPECIFICATIONS



Parameters (standard)

Thermal stabilization	< 2 pm/°C in [20; 70] °C
Wavelength shift	< 150 pm in [- 5 ; 70] °C
Wavelength adjustment	± 100 pm (mechanical tuning screw)
Operating temperature	-5 to 70 °C
Storage temperature	-40 to 80 °C
Fiber type	PM
Fiber length	1 m each side of package
Fiber protection	buffer 900 μm (boots 20 mm standard, other length upon request)
Connector each side	FC/APC
Complies with Telcordia GR-1209	

Athermal characteristic



FBG configuration

