

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

Filter Specifications IXC-FBG-PS

Part number

IXC-FBG-PS-1550-1-ATH-PM-C

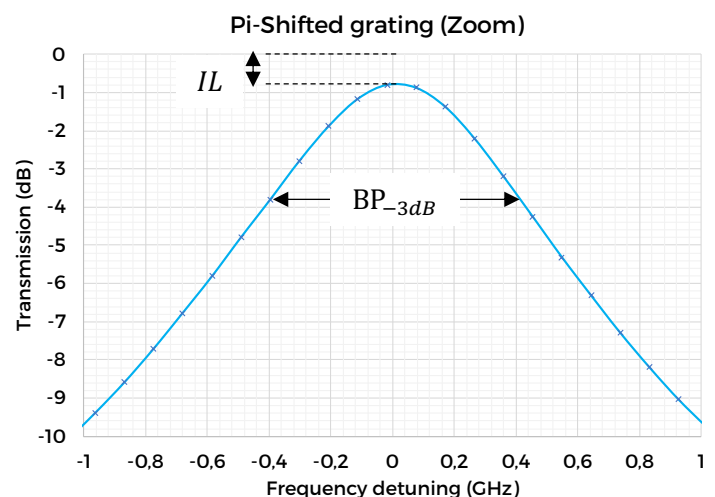
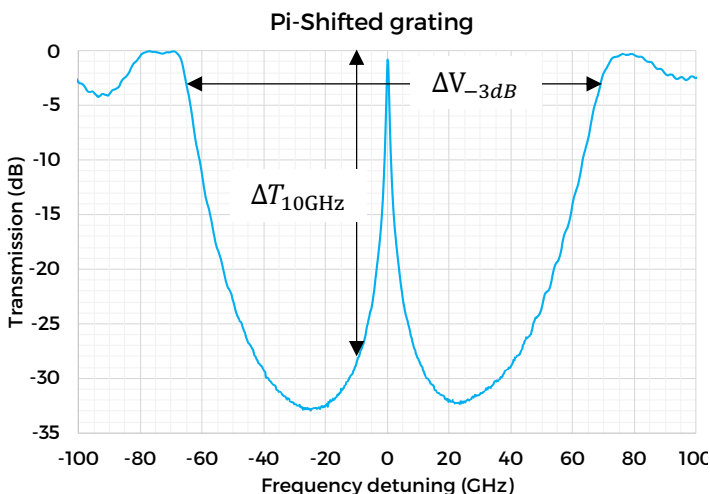
Parameters (measured in transmission)

Parameters (measured in transmission)	Specifications	Units
Center wavelength ¹	1550	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

Other specifications

Fiber type	PM single mode	
FBG packaging	Athermal (55 x 5 x 5)	mm
Pigtail length, each side (A / B)	1	m
Optical connector, each side	FC/APC PM	
Wavelength adjustment (tuning screw)	± 100	pm

Typical spectrum (in transmission configuration)



¹ Referenced to vacuum at +/- 0.05nm, slow axis

² By design



Parameters

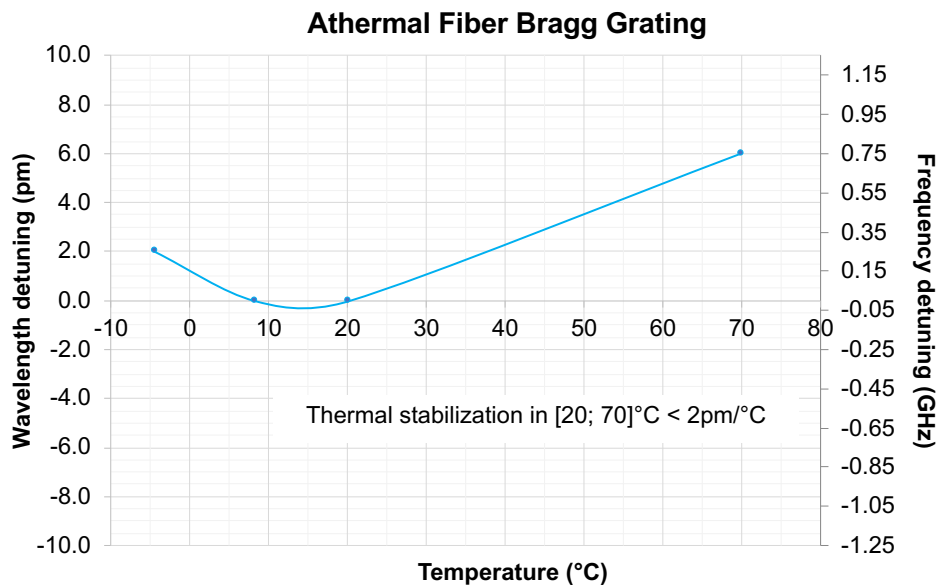
Specifications

Units

Packaging Specifications

Operating temperature	[- 5 ; 70]	°C
Storage temperature	[- 40 ; 80]	°C
Fiber protection	buffer 900 μm (boots 20 mm)	
Complies with Telcordia GR-1209		

Athermal characteristic



FBG configuration

