



FBG Specification

Parameter	Low reflectivity	Medium reflectivity	High reflectivity
Order number	FFT.FBG.S.01.01	FFT.FBG.S.01.02	FFT.FBG.S.01.03
Item description	Single FBG-20%-PI	Single FBG-50%-PI	Single FBG-70%-PI
Wavelength	1500-1600		
Wavelength accuracy	+/- 0,3nm		
Reflectivity	>20%	>50%	>70%
FWHM	<0,5nm		<0,6nm
SLRS	>15 dB		
Length	<6mm		
Tensile strength	> 3%		
Fiber length	2m		
FBG position	center		

Fiber Specification

Parameter	Single Mode Polyimide
Attenuation @1550nm	<0,4dB/km
Cutoff wavelength	<1300nm
Mode field diameter @1550nm	9,8µm
Numerical aperture	0,12
Cladding diameter	125µm
Coating type	Polyimide
Coating diameter	155µm
Max temperature	300°C (short term 400°C)

FEMTO Grating arrays and FEMTOPlus® Grating arrays

are produced according to customer specifications. FBG spacing from 0,1mm to several 100m.

In co-operation with FemtoFiberTec's sister company Loptek GmbH & Co.KG, which is specialized in the assembly of fiber optic light guides and sensors, calibrated and assembled sensors and complete sensing solutions, including the sensor and interrogation system, can be provided.