



## FBG Specification

Parameter	Low reflectivity	Medium reflectivity
Order number	FFT.FBG.P.02.01	FFT.FBG.P.02.02
Item description	Single FBG-20%-PC-PI	Single FBG-50%-PC-PI
Wavelength	1500-1600	
Wavelength accuracy	+/- 0,3nm	
Reflectivity	>20%	>50%
FWHM	<0,3nm	<0,2nm
SLRS	>15 dB	
Length	6mm	12mm
Polarization	~2pm	<5pm
Scattering loss	< 0,2dB	
Tensile strength	> 3%	
Fiber length	2m	
FBG position	center	

## Fiber Specification

Parameter	Pure Core Polyimide
Attenuation @1550nm	<0,8dB/km
Cutoff wavelength	<1290nm
Mode field diameter @1550nm	9,0µm
Numerical aperture	0,13
Cladding diameter	125µm
Coating type	Polyimide
Coating diameter	155µm
Max temperature	300°C (short term 400°C)

## FEMTO Grating arrays and FEMTO<sup>Plus</sup>® 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.