FIBER BRAGG GRATING

IXC-BBF

Broadband Filter

Well know-how FBG manufacturing process, gives to Exail capabilities to produce various filters on several in house optical fibers.

Broadband Filters (BBF) are based on a custom-made inscription technic using non periodic refractive index modulation along the fiber. Called chirped FBG, these designs are attractive for various industrial applications, mainly when wide spectral bandwidths are required

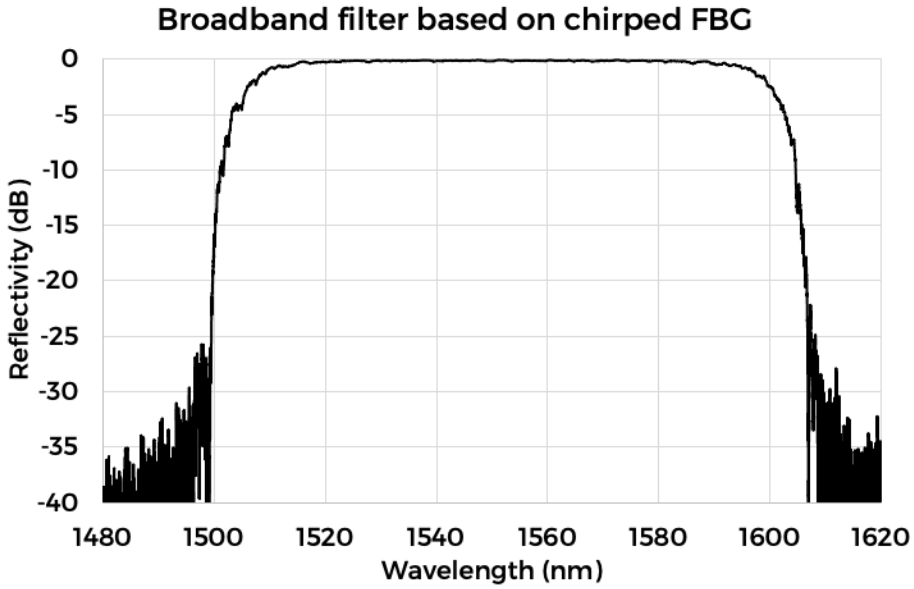
With high reflectivity and bandwidths up to 90nm these filters can be supplied packaged (athermal and/or tunable) or with acrylate recoat.

Benefits & Features

- Wide bandwidth filters on C & L bands
- Customized spectral shaping
- High reflectivity and low insertion loss
- Supplied on various fiber types

Applications

- Wavebands demultiplexing
- ASE source filtering, gain flattening (GFF)
- Sensors
- Fiber-optic gyroscope



Typical chirped FBG response

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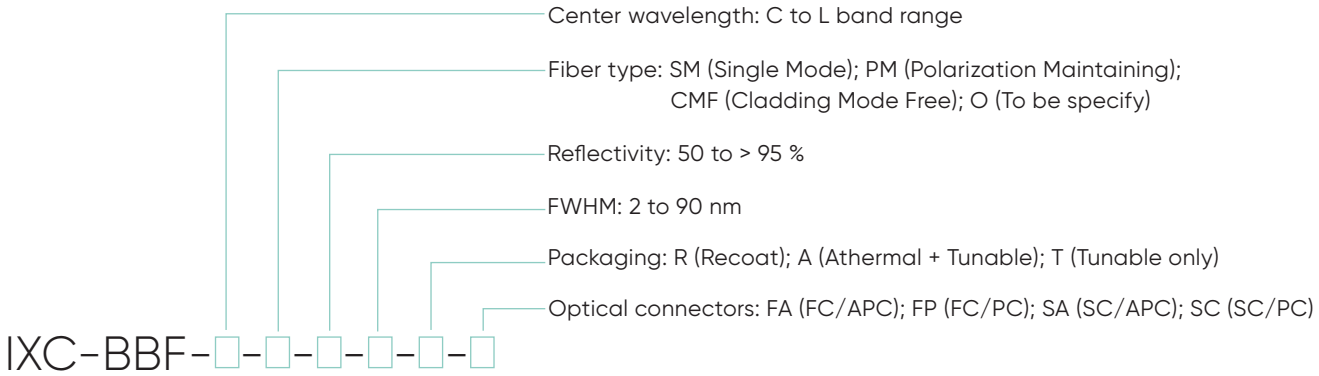
IXC-BBF TECHNICAL SPECIFICATIONS

Parameters

Exail passive optical fiber type, FT	SM, PM, Cladding Mode Free (CMF), other [1]
Center wavelengths bands, CW [2]	C, L or C + L
Reflectivity, R (%)	50 to > 95
Reflected bandwidth (FWHM), B (nm)	2 to 90
FBG packaging, P	Acrylate recoat, athermal, tunable
Pigtail length each side (m)	1
Optical connectors CC	FC/APC, FC/PC, SC/APC, SC/PC (0.9 mm buffered fiber)

[1] Refers to photosensitive fibers
[2] Reference to vacuum, slow axis for PM fibers

Ordering Information



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