



flawless fusion with infinite possibilities

SIFAM
F I B R E O P T I C S

Fibre Laser Reflector FBGs



SIFAM Fibre Laser FBGs have class-leading performance derived from sophisticated design techniques and advanced manufacturing technologies.

These devices are offered with a wide range of available bandwidths and reflectivity to give optimised and reliable application performance.

Optional proprietary laser-welded athermal package technology can be used to ensure high wavelength stability of lasers systems over temperature and life.

All SIFAM Laser Reflector FBGs are thoroughly annealed prior to shipment to ensure high long-term optical stability at elevated temperatures and high optical powers.

Key Features:

- High side mode suppression ratio
- Wide range of bandwidth & reflectivity
- Repeatable optical performance
- High lifetime stability
- ISO 9001 registered manufacturing facility

Applications:

- Fibre lasers components:
- High reflectors
- Output coupler reflectors

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As part of our policy of continuous product improvement we reserve the right to change specifications at any time

Optical Specifications

Parameters		Output Coupler	High Reflector	Unit
Wavelength Range		970,-985, 1050-1110, 1525 -1565		nm
Bandwidth (FWHM)		0.1 to 1.0	0.2 to 1.5	nm
Tolerance on Bandwidth		±10		%
Peak Reflectivity		1 to 10	>99	%
Peak Reflectivity Tolerance		<±10	N/A	%
Side Mode Suppression		>10	N/A	dB
Wavelength Accuracy	Athermal Package ₁	< ±0.02 (1520-1565nm) < ±0.05 (970-1110nm) < ±0.25		nm
	Athermal Package ₁			
	Unpackaged ₂			
Temperature Sensitivity	Athermal Package	0.0001		nm/°C
	Unpackaged	0.01		

1. Over operating temperature
2. Specified at 23 ± 2°C

Environmental Specifications

Parameter	Specification	Unit
Operating Temperature Range	-5 to +70	°C
Storage Temperature Range	-40 to +85	°C
Relative Humidity	5 to 85	%RH

Device format parameters

Parameter		Specification	Unit
Fibre Type		See available fibre types	
Pigtail Length		> 1	m
Device Format	Packaged	Athermal	
	Unpackaged	Recoated or Uncoated	
Athermal Package Dimensions	OD	5.5	mm
	Length	55	
Proof Test Level (Unpackaged)		100	kpsi

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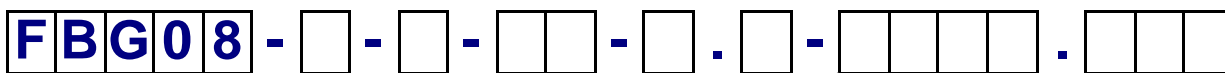


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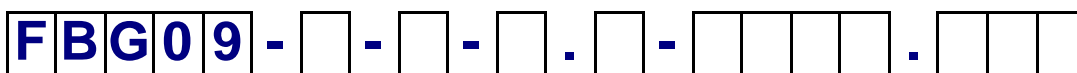
Ordering Code Information

Output coupler



Code	Device format	Code	Fibre type	Peak reflectivity (%)	Bandwidth FWHM (nm)	Centre wavelength (nm)
P	Athermal package	A	Corning SMF-28 (125/250 µm, 0.12 NA)			
R	Recoated	B	Corning HI 1060 Flex (125/250 µm, 0.2 NA)			
U	Uncoated					

High reflector



Code	Device format	Code	Fibre type	Bandwidth FWHM (nm)	Centre wavelength (nm)
P	Athermal package	A	Corning SMF-28 (125/250 µm, 0.12 NA)		
R	Recoated	B	Corning HI 1060 Flex (125/250 µm, 0.2 NA)		
U	Uncoated				