

Laser Stabilizer Fiber Bragg Gratings

Laser Stabilizer FBG Series

Product Description: Fiber Bragg gratings (FBG's) are a new type of fiberoptic band reflection passive device, which can be used to have a narrow band reflection to form a laser oscillation cavity with strong accurate wavelength selection. The type of FBG's facilitate laser cavity with single- or multi-longitudinal mode for different laser stabilization applications. We could provide FBG's with a wide selection of fiber types (SM, PM, MM and even plastic fibers), center wavelengths (from 600nm to 1650nm), bandwidths (from 0.01nm to few nanometers) and reflectivities to meet different requirement of laser sources.

Applications

- Lock pump laser wavelengths
- Lock different fiber laser wavelengths
- Raman lasers and amplifiers
- Lock different LD wavelengths
- Fiber Bragg grating sensors
- Fiber grating filters

Features

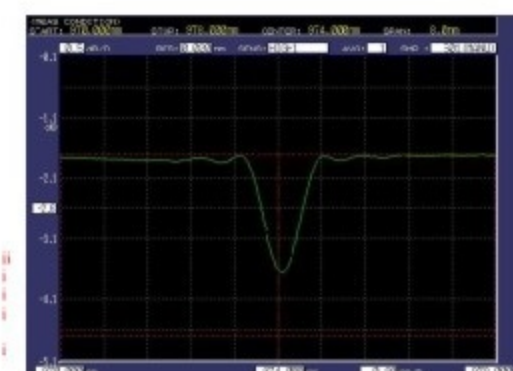
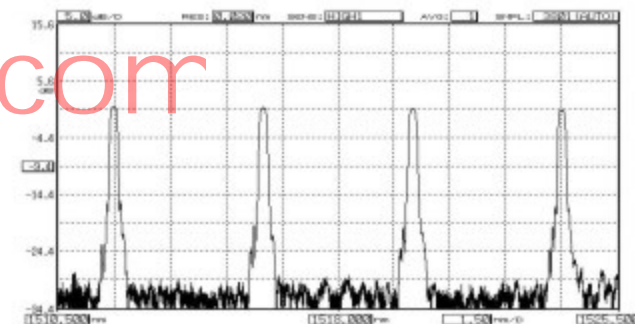
- Wide center wavelength selection from 600-1650nm
- Different reflectivities option Reflection bandwidth selection
- High reliability and stability
- Athermal FBG package available



Optical and Electric Specifications

Parameter	Units	Value	Remarks
Wavelength range	nm	600-1650	±0.5
Reflectivity	%	1%~99%	±0.5%
3dB bandwidth	nm	0.1-1.0	±0.05
SMSR	dB	NO Apodization ≥ 8dB Apodization ≥ 15dB	-
Fiber type	-	HI, SM, PM and MM / Polyimide Fiber	-
Gate area length	mm	1~200	-
Heavy coating	-	Acrylate	-
Tensile strength	Kpsi	≥ 100	-
Number of gate area	pcs	1~20	-
Working temperature	°C	-5-70	-
Storage temperature	°C	-40~85	-

Laser Stabilizer Fiber Bragg Gratings reflection spectrum



Laser Stabilizer Fiber Bragg Gratings reflection spectrum

Ordering Information

SFBG-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Code	Fiber model	Code	Grating	Code	Wavelength	Code	Reflectivity	Code	3dB Bandwidth	Code	Package type	Code	Coating type	Code	Fiber length	Code	Grating area length	Code	Connector
SFBG-	0	SM	A	C/DWDM	E	CWDM S/C/L-band	H	10%~99.9%	K	0.1nm-1.5nm	U	Standard temperature compensation	V	Acrylate	1	50cm	X	1cm	0	None
	1	PM	B	Laser Stabilizer	F	600-1650	I	1%~99%	L	0.1nm-1.0nm	N	None	W	Polyimide	2	100cm	Y	2cm	1	FC/UPC
	2	MM	D	Chrip	G	C+L Band	J	0.5%~99%	M	1nm-50nm			N	None	3	150cm	Z	5cm	2	FC/APC
	3	HI			C	Customize	C	Customize	C	Customize					4	200cm	O	10cm	3	LC/UPC
	4	Polyimide coated Fiber													C	Customize	P	15cm	4	LC/APC
	C	Customize															Q	20cm	5	SC/UPC
																	C	Customize	6	SC/APC
																			C	Customize
Example of Ordering Form: FBG-2AEJLNV1X0																				
SFBG-	2	MM	A	C/DWDM	E	CWDM S/C/L-band	J	0.5%~99%	L	0.1nm-1.0nm	N	None	V	Acrylate	1	50cm	X	1cm	0	None