Chirped Fiber Grating

Chirped FBG Series

Product Description: The chirped grating can be realized by the change of the grating period along the axial direction or the refractive index of the optical fiber along the axial direction, and the grating period of the chirped fiber grating is not constant, but varies along the axial direction by following the requirement of the chirp rate. A predetermined chirped shape can be realized by modifying the intensity of the grating depth and averaging refractive index. In addition, the bandwidth of chirped grating could be selected according to applications from broade to very wide, which can be used as a band-reflection filter.

Applications
- EDFA gain flattening filter
- Broadband filter
- C/DWDM devices, especially super-channel
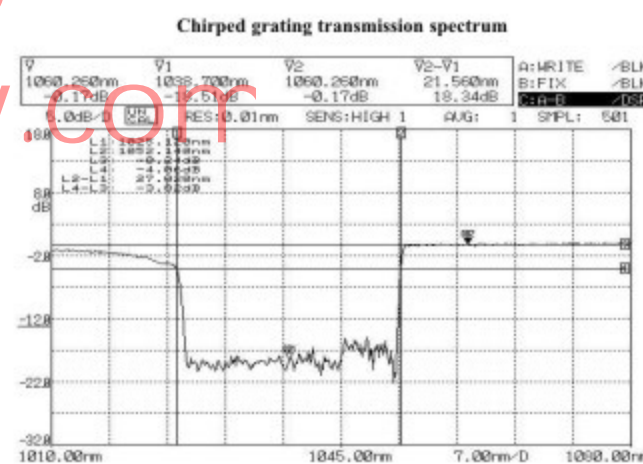- Distributed optical fiber sensor
- Dispersion compensation

Features
- Up to 50nm bandwidth
- Wide selection of chirpping rate
- Low optical insertion loss
- High reliability & stability
- Athermal FBG package available

Optical and Electric Specifications

Parameter	Units	Value	Remarks
Wavelength range	nm	C+L Band	Customize
Reflectivity	%	10%~99.9%	-
3dB bandwidth	nm	1-50	Customize
SMSR	dB	Apodization＞15dB	-
Fiber type	m	SM, PM and MM	-
Chirp rate	nm/cm	10	-
Insertion loss	dB	＜0.5	-
Gate area length	mm	1~200	-
Working temperature	℃	0~75	-
Storage temperature	℃	-20~85	-

Chirped grating transmission spectrum

Ordering Information

CFBG-											
Code	Fiber model	Code	Grating	Code	Wavelength	Code	Reflectivity	Code	3dB Bandwidth	Code	Package type
0	SM	A	C/DWDM	E	CWDM S/C/L-band	H	10%~99.9%	K	0.1nm-1.5nm	U	Standard temperature compensation
1	PM	B	Laser Stabilizer	F	600-1650	I	1%~99%	L	0.1nm-1.0nm	N	None
2	MM	D	Chrip	G	C+L Band	J	0.5%~99%	M	1nm-50nm	N	
3	HI			C	Customize	C	Customize	C	Customize		
4	Polyimide coated Fiber										
C	Customize										

Code	Coating type	Code	Fiber length	Code	Grating area length	Code	Connector
V	Acrylate	1	50cm	X	1cm	0	None
W	Polyimide	2	100cm	Y	2cm	1	FC/UPC
N	None	3	150cm	Z	5cm	2	FC/APC
		4	200cm	O	10cm	3	LC/UPC
		C	Customize	P	15cm	4	LC/APC
				Q	20cm	5	SC/UPC
				C	Customize	6	SC/APC
						N	None
						C	Customize

Example of Ordering Form: FBG-2AEJLNV1X0

CFBG-	2	A	E	J	L	N	V	1	X	0
	MM	C/DWDM	CWDM S/C/L-band	0.5%~99%	0.1nm-1.0nm	NONE	Acrylate	50cm	1cm	NONE