

Fiber Bragg Grating for Fiber Laser

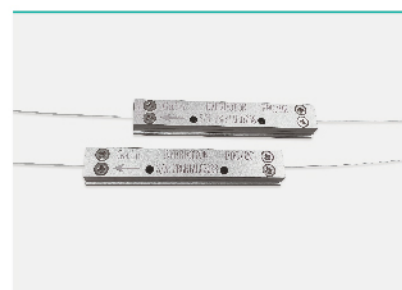
FBG (Fiber Bragg Grating) is a periodic refractive index modulation in optical fiber core through UV exposure which can achieve the modulation of signal light in optical fiber. It is an indispensable part of a high power fiber laser.

Characteristics

- Low temperature slope is less than 0.01 °C /W under 915nm pump power
- Center wavelength 1060nm~1080nm, 1940nm optional
- Bandwidth operational 0.1nm - 4nm
- Wavelength mismatch within 0.2nm
- Fiber type can be customized

Applications

- High power fiber laser



Specifications-1

10/130 FBG

Product Type	FBG-1064-995-25-J0505-H	FBG-1064-100-10-J0505-O
FBG Type	HR	OC
Center Wavelength (nm)	1064 ± 1	
Peak Reflectivity (%)	≥ 99.5	10 ± 2
Bandwidth (FWHM) (nm)	2.0 - 3.0	0.6 - 1.0
Wavelength Mismatch (nm)	< 0.2	
Side Mode Suppression Ratio (dB)	> 10	
Fiber Type	GDF - 10/130 or Customized	
Signal Power Handling (W)	100	
Package Type	Recoated Only	
FBG Pigtail Length	Each side 0.5m or Customized	

Specifications-2

14/250 FBG

Product Type	FBG-1080-995-30-R1212-H/X	FBG-1080-010-10-R1212-O/Y
FBG Type	HR	OC
Center Wavelength (nm)	1079 - 1081	1079 - 1081
Peak Reflectivity (%)	≥ 99.5	10 ± 2
Bandwidth (FWHM) (nm)	2 - 4	0.5 - 2
Wavelength Mismatch (nm)	< 0.2	
Side Mode Suppression Ratio (dB)	> 10	
Fiber Type	GDF-14/250 or Customized	
Signal Power Handling (W)	1500	
Package Type	Heat Dissipation Package / Recoated Only	
FBG Pigtail Length	Each side 1.2m	

Specifications-3

20/400 FBG

Product Type	FBG-1080-995-30-H1212-H/X	FBG-1080-010-10-H1212-O/Y
FBG Type	HR	OC
Center Wavelength (nm)	1079 - 1081	1079 - 1081
Peak Reflectivity (%)	≥ 99.5	10 ± 2
Bandwidth (FWHM) (nm)	2 - 4	0.5 - 2
Wavelength Mismatch (nm)	< 0.2	
Side Mode Suppression Ratio(dB)	> 10	
Fiber Type	GD-20/400 or Customized	
Signal Power Handling(W)	3000	
Package Type	Heat Dissipation Package / Recoated Only	
FBG Pigtail Length	Each side 1.2m	

Specifications-4

25/400 FBG

Product Type	FBG-1080-995-30-S1212-H/X	FBG-1080-010-10-S1212-O/Y
FBG Type	HR	OC
Center Wavelength (nm)	1079 - 1081	1079 - 1081
Peak Reflectivity (%)	≥ 99.5	10 ± 2
Bandwidth (FWHM) (nm)	2 - 4	0.5 - 2
Wavelength Mismatch (nm)	< 0.2	
Side Mode Suppression Ratio (dB)	> 10	
Fiber Type	GDF-25/400 or Customized	
Signal Power Handling(W)	4000	
Package Type	Heat Dissipation Package	
FBG Pigtail Length	Each side 1.2m	

Dimensions of Heat Dissipation Package

