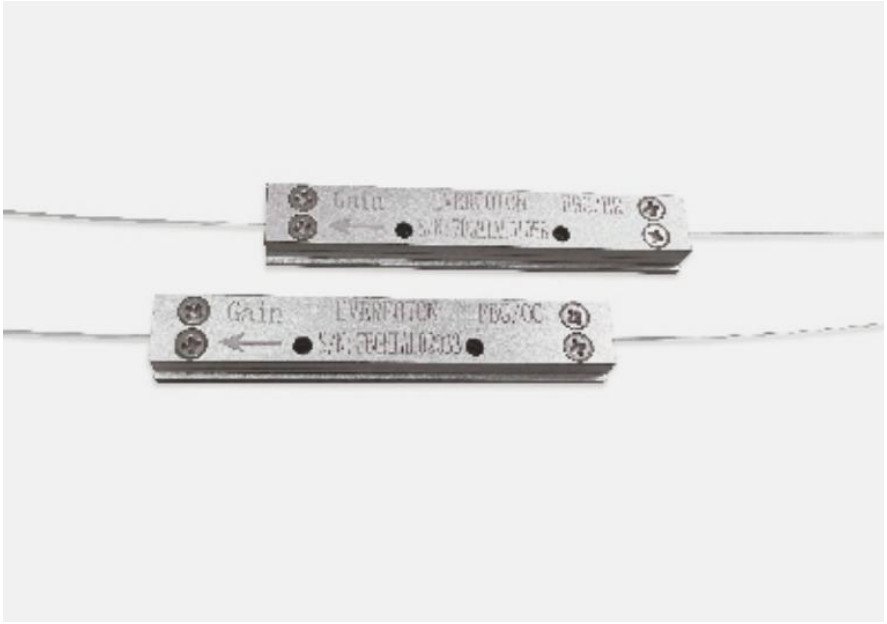
1079-1081nm OC type high power fiber Bragg grating 25400um



- ## Product Description

The fiber grating used in fiber lasers is made by forming a periodic refractive index modulation in the core of the optical fiber through ultraviolet exposure. This modulates the signal light in the fiber and is an essential component in fiber lasers.

Product features

Temperature rise coefficient under 915nm pump light conditions is less than 0.01°C/W、 Available center wavelengths: 1060nm, 1064nm, 1068nm, 1070nm, and 1080nm、Available bandwidth range: 0.05nm to 4nm、Center wavelength error for high and low reflection gratings is less than 0.2nm、Fiber type and grating parameters can be customized according to customer requirements

Part Number

MP-FBG-1080-1-10-25-OC

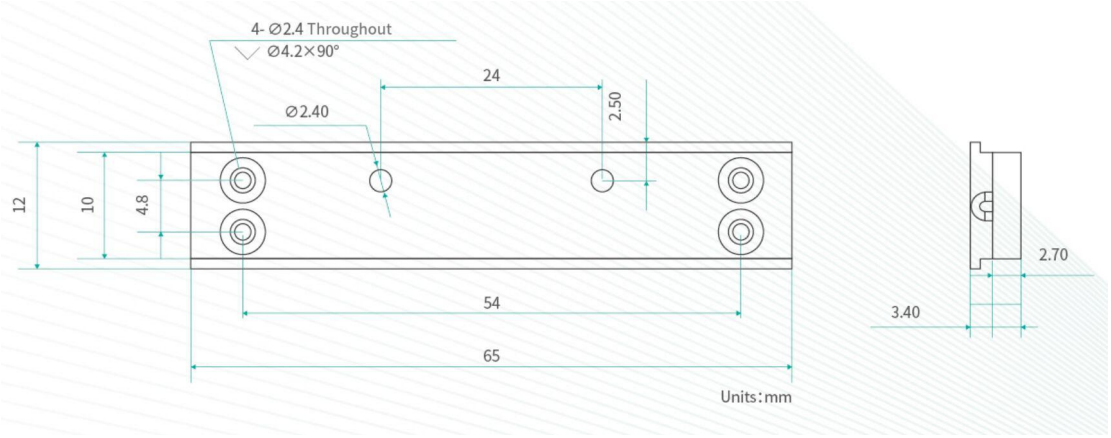
Application area

Fiber lasers in various fields、 Material processing such as marking, welding, and cutting

Core parameters

Grating Type	Center Wavelength	Peak Reflection
OC	1079-1081nm	10±2%

Dimension Drawing



General Parameters

Product Specifications 1

10/130 Type FBG

PN#	MP-FBG-1064-2-995-10-HR	MP-FBG-1064-0.6-10-10-HR
Grating Type	HR	OC
Central Wavelength (nm)	1064±1	
Peak Reflection (%)	⩾ 99.5	10 ± 2
3dB Bandwidth (nm)	2.0 ~ 3.0	0.6 ~ 1.0
Wavelength Mismatch (nm)	< 0.2	

Side Lobe Suppression (dB)	> 10
Fiber Type	GDF-10/130 or customer-specific
Signal Light Tolerance (W)	100
Packaging Structure	Low refractive coating
Pigtail Length	0.5 meters each side or customer-specific

Product Specifications 2

14/250 Type FBG

PN#	MP-FBG-1080-2-995-14-HR	MP-FBG-1080-1-10-14-OC
Grating Type	HR	OC
Central Wavelength (nm)	1079 ~ 1081	1079 ~ 1081
Peak Reflection (%)	⩾ 99.5	10 ± 2
3dB Bandwidth (nm)	2 ~ 4	1 ± 0.2
Wavelength Mismatch (nm)	< 0.2	
Side Lobe Suppression (dB)	> 10	

Fiber Type	GDF-14/250 or customer-specific
Signal Light Tolerance (W)	1500
Packaging Structure	Heat dissipation packaging / Low refractive coating
Pigtail Length	1.2 meters each side

Product Specifications 3

20/400 Type FBG

PN#	MP-FBG-1080-2-995-20-HR	MP-FBG-1080-1-10-20-OC
Grating Type	HR	OC
Central Wavelength (nm)	1079 ~ 1081	1079 ~ 1081
Peak Reflection (%)	⩾ 99.5	10 ± 2
3dB Bandwidth (nm)	2 ~ 4	1 ± 0.2
Wavelength Mismatch (nm)	＜0.2	
Side Lobe Suppression (dB)	> 10	
Fiber Type	GDF-20/400 or customer-specific	

Signal Light Tolerance (W)	3000
Packaging Structure	Heat dissipation packaging / Low refractive coating
Pigtail Length	1.2 meters each side

Product Specifications 4

25/400 Type FBG

PN#	MP-FBG-1080-2-995-25-HR	MP-FBG-1080-1-10-25-OC
Grating Type	HR	OC
Central Wavelength (nm)	1079 ~ 1081	1079 ~ 1081
Peak Reflection (%)	⩾ 99.5	10 ± 2
3dB Bandwidth (nm)	2 ~ 4	1 ± 0.2
Wavelength Mismatch (nm)	＜0.2	
Side Lobe Suppression (dB)	> 10	
Fiber Type	GDF-25/400 or customer-specific	

Signal Light Tolerance (W)	4000
Packaging Structure	Heat dissipation packaging / Low refractive coating
Pigtail Length	1.2 meters each side