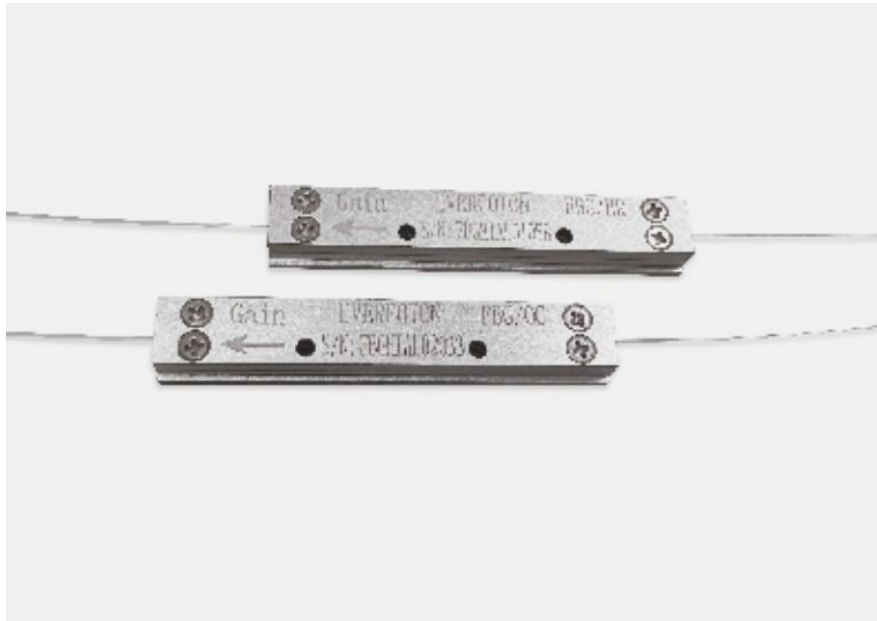


## 1079-1081nm OC type high power fiber Bragg grating 25400um



- **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

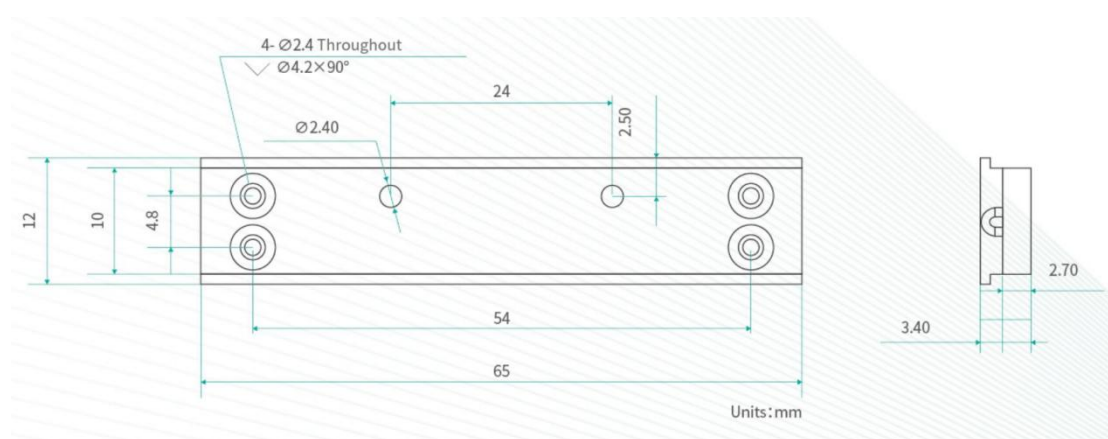
- **Application area**

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 (%)	$\geq 99.5$	$10 \pm 2$
3dB Bandwidth (nm)	2 ~ 4	$1 \pm 0.2$
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 (%)	$\geq 99.5$	$10 \pm 2$
3dB Bandwidth (nm)	2 ~ 4	$1 \pm 0.2$
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 (%)	$\geq 99.5$	$10 \pm 2$
3dB Bandwidth (nm)	2 ~ 4	$1 \pm 0.2$
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	