

# FBG1000 High Power Fiber Bragg Grating

## PRODUCT DESCRIPTION

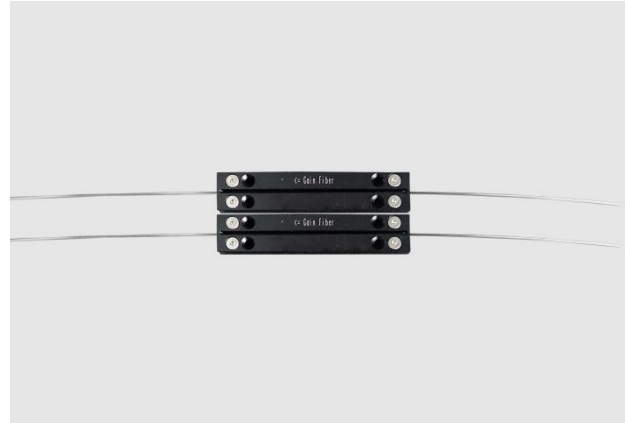
GT Lasers FBG1000 High power double-clad fiber grating pair, with chirped phase mask writing technology, through a set of high reflection (HR) and low reflection (LR) grating pairs to form a stable laser resonator, and output high power through OC coupler, low noise, low distortion laser. It can meet the specific needs of high power and high reliability of various fiber lasers.

## PRODUCT FEATURE

- ▶ High efficiency, high reliability
- ▶ Extremely low temperature rise for high power applications
- ▶ Excellent reflection and transmission spectral characteristics, which can increase the SBS threshold

## MAIN APPLICATION

- ▶ High power continuous fiber laser
- ▶ Pulsed fiber laser

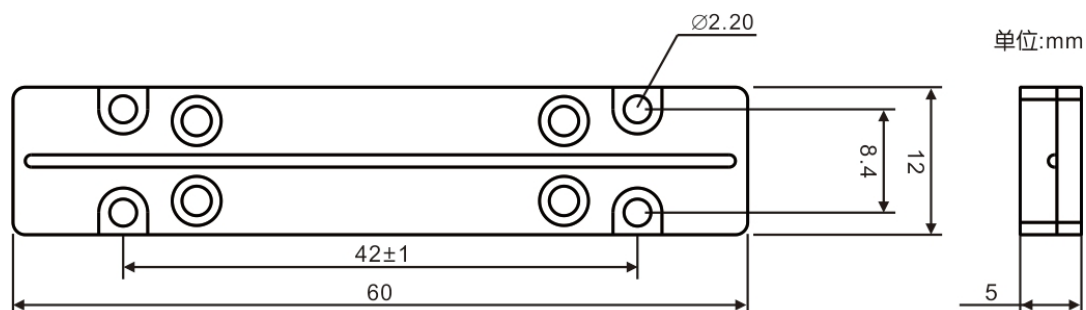


## TECHNIQUE INDEX

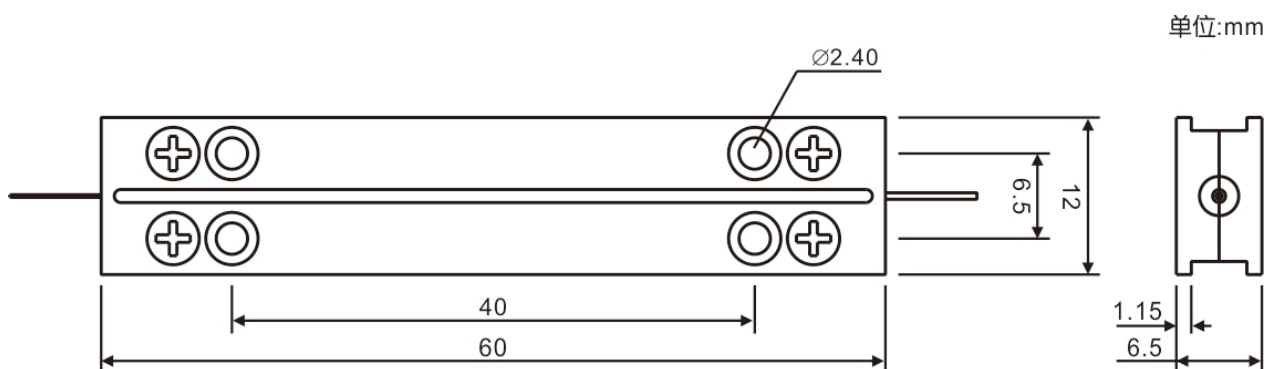
Performance			Index			Supplement
			Min.	Typ.	Max.	
Optic Feature	Central wavelength	(nm)	1079.8	1080.0	1080.2	FBG1080
			1069.8	1070.0	1070.2	FBG1070
			1089.8	1090.0	1090.2	FBG1090
			1063.8	1064.0	1064.2	FBG1064
	Bandwidth (-3dB)	(nm)	0.9	1.0	1.1	FBG1000-1
			2.7	3.0	3.3	FBG1000-3
	Reflectivity	(%)		99.5		HR
			8	10	12	OC
	Wavelength matching	(nm)			0.2	
	Temperature sensitivity	(pm/°C)			20	
	Thermal Slope	(°C/w)			0.02	
	Signal power handling	(W)		1000		1.0Kw
				1500		1.5Kw
				2000		2.0Kw
				3000		3.0Kw
	Pump power handling	(W)		1500		1.0Kw
				2300		1.5Kw
				3000		2.0Kw
				4000		3.0Kw
General Feature	Fiber type		GDF-14/250, NA=-0.07/0.46			142
			GDF-20/400, NA=-0.65/0.46			204
			GDF-22/400, NA=-0.65/0.46			224
			GDF-25/400, NA=-0.65/0.46			254
	Fiber length	(m)	1.2			
	Storage temperature	(°C)	-40		+85	
	Size(L)x(W)x(H)	(mm)	60 × 12 × 5			A type
			60 × 12 × 6.5			B type

## Size

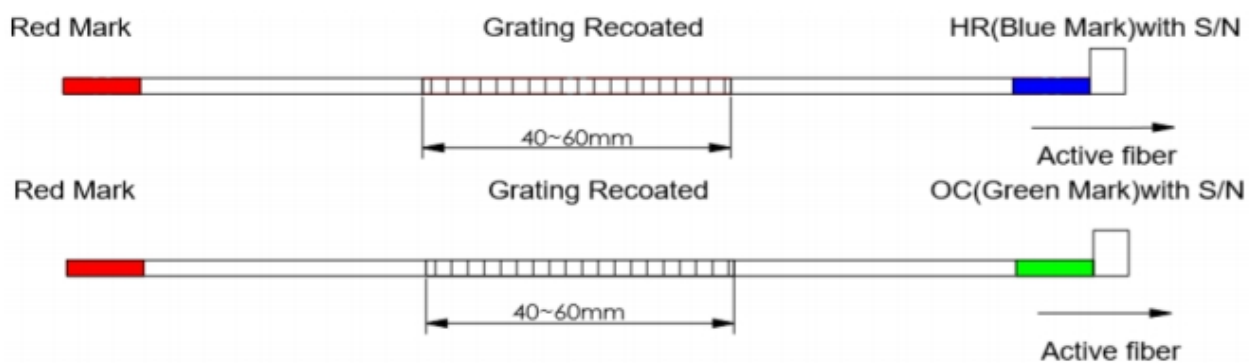
### A type



### B type



### N type



## ORDER INFORMATION

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Product name	Central wavelength		FWHM		Fiber type		Power handing		Package	
Fiber Bragg Grating	1080	1080nm	1	1mm	142	14/250	1.0	1.0 Kw	A	A type
	1070	1070nm	3	3mm	204	20/400	1.5	1.5 Kw	B	B type
	1090	1090nm			224	22/400	2.0	2.0 Kw	N	Without
	1064	1064nm			254	25/400	3.0	3.0 Kw		