

## 1550nm High Power Fiber Bragg Grating (FBG)

### FEATURES

- Various FWHM
- Low Insertion Loss
- Various Reflectivity
- High Reliability and Stability

### APPLICATIONS

- Fiber Optic Amplifiers
- Fiber Optic Instruments
- Fiber Sensor
- Fiber Laser

### SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength	nm	1470~1600
Center Wavelength Tolerance	nm	+/-0.5
Center Wavelength Mismatch	nm	0.2
Reflectivity	%	0.5~99.9
FWHM	nm	0.1~3.0
Side Mode Suppression Ratio (SMSR)	dB	A: ≥8; B: ≥10; C: ≥15; D: ≥20; E: ≥25;
Extinction Ratio (For PM Fiber Type)	dB	≥18
Fiber Type	SM Fiber	SMF-28 Fiber, 8/125um NA=0.12(M), 6/125um NA=0.18(M1), 10/130um NA=0.075(O), 12/130um NA=0.2(T), 15/130um NA=0.075(W), 20/130um NA=0.075(Q), 25/250um NA=0.065(R), 25/300um NA=0.09(G), 25/400um NA=0.065(R1), 30/250um NA=0.06(R6), 30/400um NA=0.06(R3) or specified by customer
	PM Fiber	PM1550 Fiber, 8/125um NA=0.12(M), 6/125um NA=0.18(M1), 10/125um NA=0.075(O), 12/130um NA=0.2(T), 15/130um NA=0.075(W), 20/130um NA=0.075(Q), 25/250um NA=0.065(R), 25/300um NA=0.09(G), 25/400um NA=0.065(R1), 30/250um NA=0.06(R6), 30/400um NA=0.06(R3) or specified by customer
Cladding Power Mode	-	Transmitted or Stripped
Maximum Optical Power (CW)	W	1, 5, 10, 30, 50, 100, 300, 500, 1000, 2000, 3000
Max. Cladding Optical Power (CW)	W	1, 5, 10, 30, 50, 100, 300, 500, 1000, 2000, 3000
Operating Temperature	°C	0~50
Storage Temperature	°C	-40~85
Package Type	None	Recoating
	Stainless Steel Tube (SST)	∅3.0xL60
	Metal Box	F: L50xW5xH5, J: L60xW12xH5

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
  2. To add connectors, IL is 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  3. Devices for higher optical power or with other type fiber or consigned fiber are also available.

### ORDERING INFORMATION (PN)

Center Wavelength	Reflectivity	FWHM	SMSR	Cladding Mode	SM or PM Fiber	Signal Power	Pump Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1480-1480nm	30-30%	01-0.1nm	A≥8	T-Transmitte	P-PM Fiber	1-1W	25-25W	F-F Type	O=10/130DC or 10/125PMDC Fiber	B= Bare fiber	05=0.5m	N=Without Connector
1550-1550nm	01-1%	05=0.5nm	B≥10	S=Stripped	Blank for SM Fiber	50-50W	50-50W	J=J Type	T=12/130DC or PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
1590-1590nm	99-99%	10=1.0nm	C≥15	Blank for None		1000-1000W	1000-1000W	S=SST	G=25/300 DC or PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
1600-1600nm	80-80%	15=1.5nm	D≥20			3000-3000W	Blank for None	Blank for None	Blank for SMF-28 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

or PM1550 Fiber