

1550nm Chirped Fiber Bragg Grating (FBG) for Pulse Power

FEATURES

- Various FWHM
- Various Reflectivity
- High Reliability and Stability

APPLICATIONS

- Fiber Optic Amplifiers
- 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 | 1~20 |
| 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 Signal Average Power | W | 1, 5, 10, 30, 50, 100, 300, 500, 1000, 2000, 3000 |
| Max. Cladding Average Power | W | 1, 5, 10, 30, 50, 100, 300, 500, 1000, 2000, 3000 |
| Max. Peak Power for Pulse | kW | 0.1, 1, 2, 3, 5, 10, 15, 20, 50, 100 |
| 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)

FBGC-NNNN-NNCC - C (C) (C) -H NN PNN -(NN) -(C) C(N) C NN -CC/GCC

| Center Wavelength | Reflectivity | FWHM | SMSR | Cladding Mode | SM or PM Fiber | Signal Power | Peak Power | Pump Power | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
|-------------------|--------------|----------|------|----------------|--------------------|--------------|------------|----------------|----------------|--------------------------------|---------------|--------------|-------------------------|
| 1480-1480nm | 30-30% | 10-1nm | A≥8 | T-Transmitte | P-PM Fiber | 1-1W | 01-100W | 25-25W | F-F Type | 0-10/130DC or 10/125PMDC Fiber | B- Bare fiber | 05-0.5m | N-Without Connector |
| 1550-1550nm | 01-1% | 50-5nm | B≥10 | S-Stripped | Blank for SM Fiber | 50-50W | 1-1kW | 50-50W | J-J Type | T-12/130DC or PMDC Fiber | L- Loose Tube | 10-1.0m | FC/APC=FC/APC Connector |
| 1594-1590nm | 99-99% | 100-10nm | C≥15 | Blank for None | | 1000-1000W | 10-10kW | 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% | 150-15nm | D≥20 | | | 3000-3000W | 100-100kW | 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