

1053nm High Power Uniform FBG

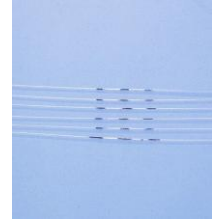
1053nm High Power Uniform FBG is built for high power laser or amplifier systems, it can be used for dispersion compensation and filter out the ASE noise for the systems, compared to the Chirped FBG, Uniform FBG has a narrow bandwidth, the handling power will be lower. The parameter can be customized upon request.

Application:

Fiber Laser
EDFA
Fiber Optic Sensor
Lab And Research

Features:

Low Insertion Loss
High Power
High SMSR
High Reliability & Stability

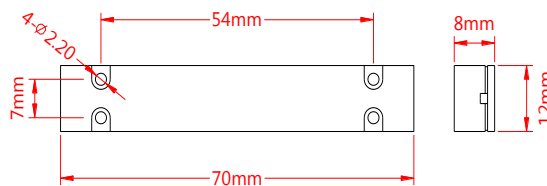


Specification:

| Parameter | Symbol | Value | | Unit |
|------------------------------|-----------|--------------------------------------|------------------|--------------------|
| Center Wavelength | λ | 1053 | | nm |
| Tolerance | | $\pm 1, \pm 0.5, \pm 0.1$ or specify | | nm |
| Wavelength matching accuracy | | 0.2 | | nm |
| Filter Type | | High Reflector | Output Coupler | - |
| Reflectivity | | 99-99.9 (± 2) | 6-98 (± 2) | % |
| Max. 3dB Bandwidth | | 0.2-0.7 | 0.1-0.3 | nm |
| Bandwidth Tolerance | | ± 0.1 | ± 0.1 | nm |
| Min. SMSR | SMSR | 20 | 10 | dB |
| Grating Regions Length | | 1-30 | | mm |
| Max. Handling Power | P | 10, 30, 50, 100, 500 | | W |
| Min. Tensile Strength | | 100 | | kpsi |
| Fiber Type | | 20/400, 25/400 DC Fiber or specify | | - |
| Recoating | | UV Cured Acrylate or specify | | - |
| Operating Temperature | T | -20~75 | | $^{\circ}\text{C}$ |
| Storage Temperature | T | -40~85 | | $^{\circ}\text{C}$ |
| Package Dimension | | Bare Fiber or 70x12x8 | | mm |

Notice: Above specifications are tested at center wavelength without connector in room temperature @23 $^{\circ}\text{C}$.

Drawing:



Ordering Information (Part Number):

| HPUFBG- WWWW - FF - BB - RR - HH - FF - LL | | | | | | |
|---|---------------------|--------------|--------------|----------------|----------------------|--------------|
| WWWW | FF | BB | RR | HH | FF | LL |
| Wavelength | Filter Type | Bandwidth | Reflectivity | Handling Power | Fiber Type | Fiber Length |
| 1050 - 1050nm | HR - High Reflector | Z2 - 0.2nm | 06 - 6% | 10 - 10W | 20 - 20/400 DC Fiber | 05 - 0.5m |
| 1053 - 1053nm | OC - Output Coupler | Z3 - 0.3nm | 98 - 98% | 30 - 30W | 25 - 25/400DC Fiber | 08 - 0.8m |
| 1058 - 1058nm | | Z4 - 0.4nm | 99 - 99% | 50 - 50W | SS - Specify | 10 - 1.0m |
| 1060 - 1060nm | | Z5 - 0.5nm | 99.9 - 99.9% | 100 - 100W | | 15 - 1.5m |
| 1061 - 1061nm | | Z6 - 0.6nm | SS - Specify | 500 - 500W | | 20 - 2.0m |
| 1064 - 1064nm | | Z7 - 0.7nm | | SS - Specify | | SS - Specify |
| SSSS - Specify | | SS - Specify | | | | |