

1392nm broadband fiber Bragg grating filter



● Product Description

Idealphotonics introduced coherent excimer writing technology and technically recognized packaging technology to solve the reliability problem of fiber grating products. It also used its excellent holographic phase mask technology XmaskTM and grating writing technology to achieve technical breakthroughs in many products in the field of FBG technology. Products include gain flattening filters (GFF), single-channel and multi-channel dispersion compensators, dispersion slope compensators, pump laser frequency stabilization, gratings for fiber lasers, etc. At present, it is supplied in batches to many international units, and the product performance is long-term stable and reliable. The maximum

power of gratings for fiber lasers can reach 1500W. Our products support wavelength range: 1310 nm (O-band), 1520 nm (S-band), 1550 nm (C-band) and 1600 nm (L-band)., bandwidth 0.1-0.5nm. Supports the writing of various passive optical fibers. The company introduced Yokogawa high-precision spectrometers and we have achieved a spectrum for each fiber, so that customers can better understand the performance of the products.

● Product features

Wavelength range: 1280-1318nm, 1520-1605nm、 LR: 5-99% (100-500pm bandwidth)、 Operating power: <1W、 Different packaging types available 、 Different fiber types available

● Part Number

MP-FBG-01-1392-3000-2-2-3

● Application area

Narrowband selective wavelength filtering、 High stability reliability field, temperature stress change、 Chirp dispersion compensator, WDM filter、 Transportation energy civil engineering communication medical field

● Core parameters

| Center Wavelength | Bandwidth |
|-------------------|-----------|
| 1392nm | 0.1-0.5nm |

● General Parameters

Test temperature@25°C

| Parameter | Specification | Unit |
|--|---|-------|
| Custom center wavelength at room temperature | 1280-1318nm 1520-1605nm | nm |
| Center wavelength tolerance | ≤ 0.5 nm | nm |
| Reflection bandwidth tolerance | ±0.1 | nm |
| FWHM | 0.1 - 0.5 (± 0.05 nm) | nm |
| Reflectivity | 5 - 90 (± 5 %) | % |
| Maximum tensile stress | 5000 | με |
| Reflectivity tolerance | ±5.0 | % |
| Side mode suppression ratio (SMSR) | >10 | dB |
| Stress sensitivity | ~1,3 (@1550 nm) | pm/μ |
| Temperature stability | ~10 (@1550 nm) | pm/°C |
| Pigtail length (each end) | 0.5m | |
| Operating temperature | -40° C to 150° C for standard fibers | |
| Fiber connectors | FC/APC,Bare fiber (Other customization) | |
| Packaging type | Repainting and packaging | |
| Core/cladding diameter | 9/250 | um/um |