



Fiber Bragg Gratings (FBGs) are widely used in the area of the sensing systems, telecommunications and in the other areas where the optical signal filtering is required. FBGs are produced by the lateral exposure of the optical fiber by the UV excimer KrF laser through a phase mask. We offer FBGs in the area of 1310 nm (O-band), 1520 nm (S-band), 1550 nm (C-band) and 1600 nm (L-band).

| Parameters | NWG - FBG | |
|-------------------------------|--|----------------|
| Central wavelength (CWL) | 1280 - 1318 nm | 1520 - 1605 nm |
| Absolute CWL accuracy | ≤ 0.5 nm | |
| FWHM bandwidth | 0.1 - 0.5 nm (± 0.05 nm) | |
| Reflectivity | 5 - 90 % (± 5 %) | |
| Maximal tensile strain | 5000 µε | |
| Fiber type | SM G.657.A2, G.652.D or customer defined | |
| Recoating type | UV curable acrylate | |
| Strain sensitivity | ~ 1,3 pm/µ (@1550 nm) | |
| Temperature sensitivity | ~ 10 pm/°C (@1550 nm) | |
| Operational temperature range | -40° C to 150° C for standard fibers | |

(The parameters determined for ambient temperature of 25 °C.)

Application:

- Filtering of the wideband optical signal to required wavelength.
- Monitoring of the temperature and strain changes due to high stability and reliability.
- Chromatic dispersion compensators, WDM filters, etc.
- Usable in traffic systems, energetics, civil engineering, telecommunications, medicine, etc.

Additional information:

We are able to produce customizable FBGs with the parameters according to the customer. Feel free to contact us for customized FBGs.

Order code:



