FIBER BRAGG GRATING

Radiation Hardened FBG for Sensing and Filtering Applications

Our radiation Hardened Fiber Bragg Gratings (FBG) are ideal for diagnostic or wavelength selection devices in harsh radiative environments. These FBGs are written on a specially designed radiation-hardened optical fiber minimizing end-of-life losses. Our specific FBG manufacturing process ensures spectral response stability againt the effects of combined radiations (X-, gamma-rays, neutrons, protons) and high temperature.



Our technology is field proven up to MGy level and 350°C. These FBG are also suitable for space mission (63 MeV protons) and nuclear reactor (\sim 5·1019 n/cm2).





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