

Applications

- High power fiber laser
- Ultra-fast fiber laser

Key Features

- Excellent wavelength control
- High sidelobe suppression ratio
- High reflector & output coupler
- High power handling
- Low insertion loss
- Narrow & broad bandwidth selection

Fiber laser is an emerging technology for industrial material processing including laser cutting, laser marking, laser welding and laser drilling. Fiber Bragg Grating is critical component inside fiber laser which is used to form lasing cavity.

Technica offer flexibility to produce high reflectors and output couplers on different kind of fibers including single mode fiber, PM fiber, large diameter fiber and double-clad fiber.

Specifications

Parameter	Unit	Specifications	Tolerance
Center Wavelength	nm	1050 – 1070 1462 – 1614	+/- 0.25 nm +/- 0.25 nm
Reflectivity	%	1% - 99%	+/- 0.5
FWHM Bandwidth	nm	0.05 - 2	+/- 0.01
Grating Profile	-	Apodised	SLSR >15 dB
Fiber Type	-	Corning HI980/PM980 or equivalent Corning HI1060 or equivalent Corning SMF 28/ Panda PM Double-clad fiber	-
Tensile strength	kpsi	>100	-
Recoating	-	Acrylate or low index polymer	-
Fiber length	m	Min. 2.0	-
Optical Connector	-	No connector, FC/APC, FC/UPC	-