

Thulium-doped Matched Passive Fiber

Everfoton Large Mode Field Area Passive Double-cladding Matched Fiber is designed for high-power 2 μ m pulse or continuous fiber lasers and amplifiers. The fiber can achieve precise matching with Tm-doped active fibers and have excellent fusion compatibility, low attenuation, and stability, ensuring high-performance output of thulium fiber in system applications.

Characteristics

- Low fusion attenuation
- Excellent mode control
- High reliability

Applications

- 2 μ m fiber lasers and amplifiers

Specifications

Fiber Type	GDF_DC 10/130-0.15	GDF_DC 25/250-0.11	GDF_DC 25/400-0.11	GDF_DC 25/400-0.095(Tm)
Part No.	DG1110-D	DG1112-D	DG1112-C	DG1112-G
Optical Properties				
Operating Wavelength (nm)	1900~2100			900~2100
Core NA	0.15 $\pm$ 0.01	0.11 $\pm$ 0.01	0.11 $\pm$ 0.01	0.095 $\pm$ 0.005
Cladding NA	$\geq$ 0.46	$\geq$ 0.46	$\geq$ 0.46	$\geq$ 0.46
Core Attenuation @1200nm (dB/km)	$\leq$ 20.0	$\leq$ 20.0	$\leq$ 20.0	$\leq$ 40.0
Core Attenuation @1300nm (dB/km)	$\leq$ 20.0	$\leq$ 15.0	$\leq$ 15.0	$\leq$ 20.0
Cladding Attenuation @1095nm (dB/km)	$\leq$ 15.0	$\leq$ 15.0	$\leq$ 15.0	$\leq$ 40.0
Geometrical Properties				
Core Diameter (μ m)	11.0 $\pm$ 1.0	25.0 $\pm$ 1.5	25.0 $\pm$ 1.5	25.0 $\pm$ 2.0
Cladding Diameter (μ m)	130.0 $\pm$ 1.0	247.0 $\pm$ 3.0	395.0 $\pm$ 5.0	395.0 $\pm$ 5.0
Core/Cladding Concentricity (μ m)	$\leq$ 0.7	$\leq$ 1.0	$\leq$ 2.0	$\leq$ 2.0
Coating Diameter (μ m)	245.0 $\pm$ 10.0	395.0 $\pm$ 10.0	550.0 $\pm$ 15.0	550.0 $\pm$ 15.0
Cladding Non-circularity (%)	$\leq$ 0.5	$\leq$ 0.5	$\leq$ 0.5	$\leq$ 0.5
Proof Test (kpsi)	$\geq$ 100	$\geq$ 100	$\geq$ 100	$\geq$ 100
Coating Material	Low RefractiveIndex Coating/Acrylate			