

Thulium-doped Matched Passive Fiber

Everfoton Large Mode Field Area Passive Double-cladding Matched Fiber is designed for high-power 2μm 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

- 2μm 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±0.01	0.11±0.01	0.11±0.01	0.095±0.005
Cladding NA	≥0.46	≥0.46	≥0.46	≥0.46
Core Attenuation @1200nm (dB/km)	≤20.0	≤20.0	≤20.0	≤40.0
Core Attenuation @1300nm (dB/km)	≤20.0	≤15.0	≤15.0	≤20.0
Cladding Attenuation @1095nm (dB/km)	≤15.0	≤15.0	≤15.0	≤40.0
Geometrical Properties				
Core Diameter (μm)	11.0±1.0	25.0±1.5	25.0±1.5	25.0±2.0
Cladding Diameter (μm)	130.0±1.0	247.0±3.0	395.0±5.0	395.0±5.0
Core/Cladding Concentricity (μm)	≤0.7	≤1.0	≤2.0	≤2.0
Coating Diameter (μm)	245.0±10.0	395.0±10.0	550.0±15.0	550.0±15.0
Cladding Non-circularity (%)	≤0.5	≤0.5	≤0.5	≤0.5
Proof Test (kpsi)	≥100	≥100	≥100	≥100
Coating Material	Low RefractiveIndex Coating/Acrylic Resin			