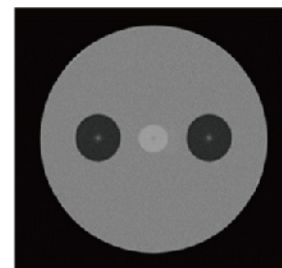


Polarization-maintaining Ytterbium-doped Fiber



Everfoton's Panda-type Polarization-maintaining Ytterbium-doped Fiber, leveraging advanced optical and process design, delivers exceptional geometric parameters and birefringence performance, effectively suppressing nonlinear effects within the optical system. In laser applications, it exhibits high gain efficiency and excellent photodarkening performance, ensuring long-term system stability and reliability to meet the demands of ultra-short pulse, green light, and narrow linewidth lasers. This fiber is highly compatible with the same series of polarization-maintaining passive fibers, working together to achieve exceptional consistency and optical path stability.

Characteristics

- Precise control of geometric parameters
- Excellent birefringence
- High laser conversion efficiency
- Excellent beam quality

Applications

- Ultra-short pulse laser
- Green laser
- Narrow linewidth laser
- Brittle material processing, additive manufacturing, scientific research and other fields

Specifications

Fiber Type	YDF_DC 5/130(PM)	YDF_SC 6/125(PM)	YDF_SC 6/125(PM)	YDF_DC 10/125(PM)	YDF_DC 25/250(PM)	YDF_DC 30/250(PM)	YDF_DC 20/400(PM)	YDF_DC 25/400(PM)
Part No.	YD1113-C	YD1011-A	YD1011-B	YD1113-A	YD1111-F	YD1111-E	YD1113-B	YD1113-D
Optical Properties								
Operating Wavelength (nm)	1030 - 1115							
Cladding Attenuation@1095nm (dB/km)	≤20	-	-	≤20	≤20	≤20	≤20	≤20
Core Absorption@915nm (dB/m)	-	85.0±10.0	140.0±25.0	-	-	-	-	-
Cladding Pump Absorption @915nm (dB/m)	0.60±0.10	-	-	1.90±0.40	1.80±0.30	1.80±0.30	0.50±0.10	0.70±0.10
Core NA	0.12±0.01	0.11±0.01	0.14±0.01	0.075±0.05	0.06±0.01	0.06±0.01	0.06±0.005	0.065±0.005
Inner Cladding NA	≥0.46	-	-	≥0.46	≥0.46	≥0.46	≥0.46	≥0.46
Geometrical/Mechanical Properties								
Core Diameter (μm)	5.0±1.0	6.0±1.0	6.0±1.0	10.0±2.0	25.0±3.0	30.0±3.0	20.0±2.0	25.0±2.0
Inner Cladding Diameter (μm)	125.0±3.0	125.0±3.0	125.0±3.0	125.0±3.0	250.0±5.0	250.0±5.0	400.0±10.0	400.0±10.0
Coating Diameter (μm)	245.0±15.0	245.0±15.0	245.0±15.0	245.0±15.0	400.0±15.0	400.0±15.0	550.0±15.0	550.0±15.0
Inner Cladding Shape (N/A)	Circular	Circular	Circular	Circular	Circular	Circular	Circular	Circular
Proof Test (kpsi)	≥100	≥100	≥100	≥100	≥100	≥100	≥100	≥100