

1401 Doped Fiber

DF1003



Yb300-6/125

Yb300-6/125 fibers are highly doped single mode single clad fibers for low power fiber laser and amplifier applications. Combining high core pump absorption, extremely high photodarkening resistivity and excellent, single-mode beam quality makes these fibers ideal for realizing, e.g.; low average power femtosecond fiber lasers or preamplifiers in a fiber amplifier chain.

FEATURES

- Direct Nanoparticle Deposition
- RealNA-Low Splice Loss
- Excellent Single Mode Beam Quality for 1 μm Applications
- Extremely High Photodarkening Resistivity
- Good Spliceability and Compatibility

USE IN

- Low Average Power Femtosecond Fiber Lasers
- IR Sources for Frequency Doubling
- Low-power Core Pumped Preamplifier for Fiber Amplifier Chain

Mode Field Diameter at 1060 nm	7.0 \pm 0.5 μm
Peak Core Absorption @ 976 nm (Nominal)	300 dB/m
Peak Core Absorption @ 920 nm	75 \pm 10 dB/m
Core Numerical Aperture (RealNA)	0.120 \pm 0.005
Cut-off Wavelength	860 \pm 70 nm
Core Background Loss at 1200 nm	25 dB/km max.
Core Diameter (Nominal)	5.5 μm
Core Concentricity Error	1.0 μm max.
Cladding Diameter (Flat-to-Flat)	125.0 \pm 2.0 μm
Cladding Geometry	Round
Coating Diameter	245.0 \pm 15.0 μm
Coating Material	Dual Coated High Index Acrylate
Proof Test	100 kpsi min.