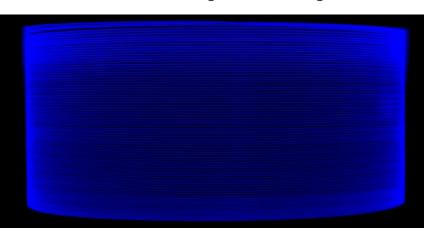


# Yb300-6/125(-PM)

## Single Mode Single Clad Ytterbium Doped Fiber



#### **Features**

- Direct Nanoparticle Deposition: Industry leading fiber deposition process
- Beam quality: Robust single mode operation for 1 µm applications
- · Reliability: Extremely high photodarkening resistivity
- **Compatibility**: Good spliceability to standard single mode fibers (e.g. PM980, SM980); also matching nLIGHT passive fibers available

## **Applications**

- Low average power ultrafast fiber lasers
- Core pumped pre-amplifier for fiber amplifier chain
- IR sources for frequency doubling

### **Typical Fiber Specifications**

Fiber		LIEKKI <sup>®</sup> Yb300-6/125	LIEKKI <sup>®</sup> Yb300-6/125-PM
Optical	Units		
Mode Field Diameter at 1060 nm <sup>(1)</sup>	μm	7.0 ± 0.5	7.0 ± 0.5
Peak Core Absorption at 976 nm (nominal)	dB/m	(300)	(300)
Core Absorption at 920 nm	dB/m	75 ± 10	75 ± 10
Core Numerical Aperture (nominal)		0.12	0.12
Cut-off wavelength (2)	nm	860 ± 70	860 ± 70
Core background loss at 1200 nm, ≤	dB/km	25	25
Birefringence, ≥	1E-04	-	2.0
Geometrical and mechanical			
Core diameter (nominal)	μm	(5.5)	(5.5)
Core Concentricity Error, ≤	μm	1.0	1.0
Cladding Diameter	μm	125 ± 2	125 ± 2
Cladding Geometry		Round	Round, PANDA
Coating Diameter		245 ± 15	245 ± 15
Coating Material		Dual coated high index acrylate	Dual coated high index acrylate
Proof Test, ≥	kpsi	100	100

<sup>(1)</sup> Near-field Mode Field Diameter

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<sup>(2)</sup> Calculated value