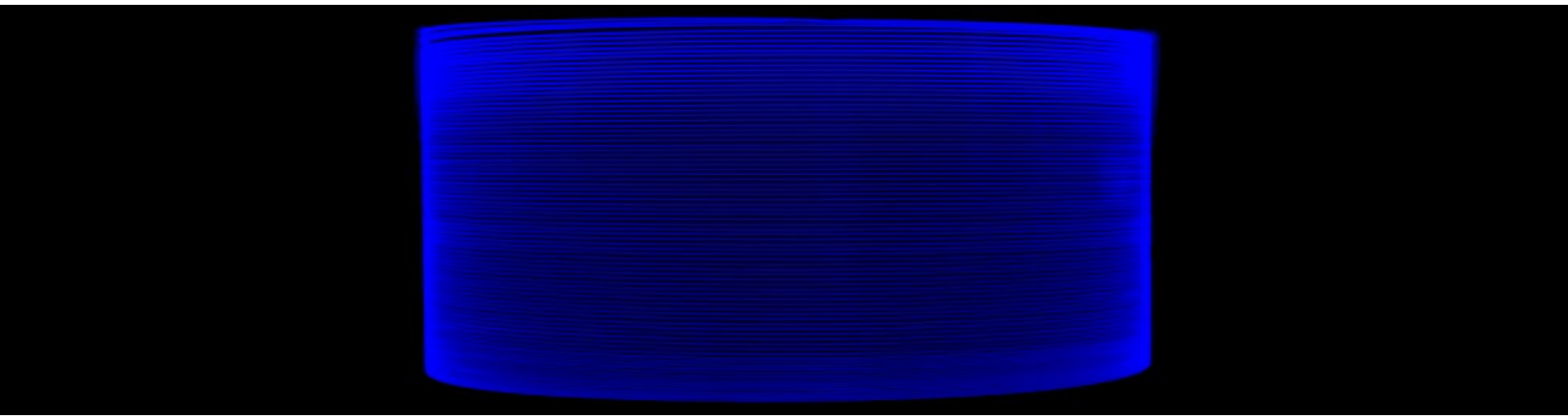
LIEKKI®

Yb1200-6/125DC(-PM)

Single Mode Double Cladding Ytterbium Doped Fiber



Features

- **Direct Nanoparticle Deposition**: Industry leading fiber deposition process
- **Beam quality**: Robust single mode operation for 1 µm applications
- **Performance**:
  High pump absorption with low photodarkening loss
  Tightened cladding geometries in PM fiber version for better connectivity
- **Reliability**: Acrylate coating enables fiber applications in extreme environmental conditions: Proven to operate up to 150˚C and in high humidity.
- **Compatibility**: nLIGHT passive fibers matched for minimal splice loss

Applications

- Low power cladding pumped fiber lasers and pre-amplifiers
- Pulsed and CW applications, such as laser marking or seed sources
- IR sources for frequency doubling

Typical Fiber Specifications

Fiber		LIEKKI® Yb1200-6/125DC	LIEKKI® Yb1200-6/125DC-PM
Optical	**Units**		
Mode Field Diameter at 1060 nm (1)	µm	7.0 ± 0.5	7.0 ± 0.5
Peak Cladding Absorption at 976 nm (nominal)	dB/m	(2.4)	(2.4)
Cladding Absorption at 920 nm	dB/m	0.55 ± 0.1	0.55 ± 0.1
Core Numerical Aperture (nominal)		0.12	0.12
Cut-off wavelength (2)	nm	880 ± 80	880 ± 80
Core background loss at 1200 nm, ≤	dB/km	15	25
Birefringence, ≥	1E-04	-	2.0
Geometrical and mechanical			
Core Concentricity Error, ≤	µm	1.0	1.0
Cladding Diameter (flat-to-flat)	µm	125 ± 2	125 ± 1
Cladding Geometry		Octagonal	Round, PANDA
Coating Diameter		245 ± 15	245 ± 15
Coating Material		Dual coated low index acrylate	Dual coated low index acrylate
Proof Test, ≥	kpsi	100	100

(1) Near-field Mode Field Diameter
(2) Calculated value

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