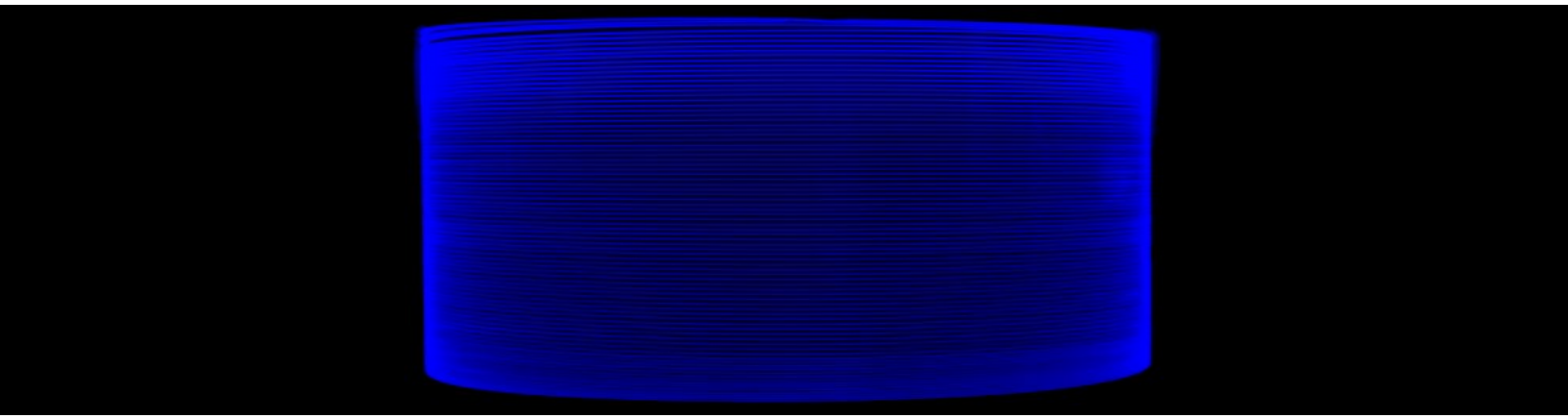
LIEKKI®

Yb1200-30/250DC(-PM)

Large Mode Area Double Cladding Ytterbium Doped Fiber



Features

- **Direct Nanoparticle Deposition**: Industry leading fiber deposition process
- ***real*NA**: most accurate fiber core NA to enable superior predictability of fiber performance and minimal splice loss
- **Performance targeted for short-pulsed applications**: High pump absorption and large, low-NA core enable short application lengths with low nonlinearities and high beam qualities
- **Reliability**: Coating proven to operate up to 150˚C and in extreme humidity
- **Compatibility**: nLIGHT passive fibers matched for minimal splice loss

Applications

- High peak and average power pulsed amplifiers
- Industrial and scientific applications, e.g., materials processing, LIDAR
- IR sources for frequency doubling

Typical Fiber Specifications

Fiber		LIEKKI® Yb1200-30/250DC	LIEKKI® Yb1200-30/250DC-PM
Optical	**Units**		
Peak Cladding Absorption at 976 nm (nominal)	dB/m	(14.2)	(14.6)
Cladding Absorption at 920 nm	dB/m	3.3 ± 0.6	3.4 ± 0.6
Core Numerical Aperture (*real*NA)		0.070 ± 0.005	0.062 ± 0.005
Cladding Numerical Aperture, ≥		0.48	0.48
Core background loss at 1200 nm, ≤	dB/km	25	25
Birefringence, ≥	1E-04	-	1.4
Geometrical and mechanical			
Core Diameter	µm	30.0 ± 2.0	30.0 ± 2.0
Core Concentricity Error, ≤	µm	1.2	1.2
Cladding Diameter (flat-to-flat)	µm	250 ± 5	250 ± 5
Cladding Geometry		Octagonal	Round, PANDA
Coating Diameter		350 ± 15	350 ± 15
Coating Material		Dual coated low index acrylate	Dual coated low index acrylate
Proof Test, ≥	kpsi	100	100

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