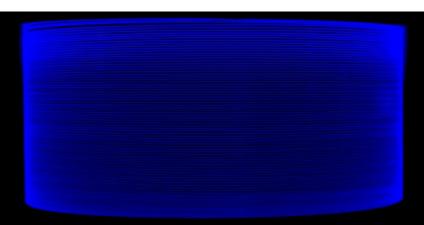# LIEKKI®

Yb1200-20/125DC(-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**: Very high pump absorption enabling shortest application lengths, ideal for ultrafast (fs, ps) applications.
- **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

- Medium power cladding pumped fiber amplifiers
- Ultrafast lasers for marking and material processing
- IR sources for frequency doubling

Typical Fiber Specifications

Fiber		LIEKKI® Yb1200-20/125DC	LIEKKI® Yb1200-20/125DC-PM
Optical	**Units**		
Peak Cladding Absorption at 976 nm (nominal)	dB/m	(25.8)	(28)
Cladding Absorption at 920 nm	dB/m	6.0 ± 0.9	6.5 ± 1.1
Core Numerical Aperture (*real*NA)		0.080 ± 0.005	0.080 ± 0.005
Cladding Numerical Aperture, ≥		0.48	0.48
Core background loss at 1200 nm, ≤	dB/km	25	25
Birefringence, ≥	1E-04	-	0.8
Geometrical and mechanical			
Core Diameter	μm	20.0 ± 1.5	20.0 ± 1.5
Core Concentricity Error, ≤	μm	1.0	1.0
Cladding Diameter (flat-to-flat)	μm	125 ± 2	125 ± 2
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

+358 19 357391 | fibers@nlight.net | www.nlight.net

*n*LIGHT