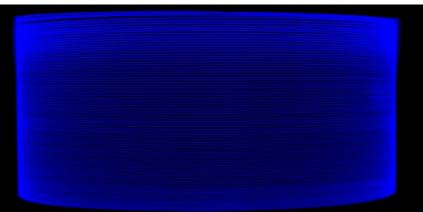


## Yb1200-10/125DC(-PM)

Large Mode Area Double Cladding Ytterbium Doped Fiber



## **Features**

- Direct Nanoparticle Deposition: Industry leading fiber deposition process
- rea/NA: most accurate fiber core NA to enable superior predictability of fiber performance and minimal splice loss
- **Performance**: High pump absorption with low photodarkening loss Tightened cladding geometries in PM fiber version for better connectivity
- Reliability: Coating proven to operate up to 150°C and in extreme humidity
- **Compatibility**: nLIGHT passive fibers matched for minimal splice loss

## **Applications**

- Medium power cladding pumped fiber lasers and preamplifiers
- Pulsed and CW applications in industrial, medical and scientific markets
- IR sources for frequency doubling

## **Typical Fiber Specifications**

Fiber		LIEKKI <sup>®</sup> Yb1200-10/125DC	LIEKKI <sup>®</sup> Yb1200-10/125DC-PM
Optical	Units		
Peak Cladding Absorption at 976 nm (nominal)	dB/m	(7.4)	(7.4)
Cladding Absorption at 920 nm	dB/m	1.7 ± 0.3	1.7 ± 0.3
Core Numerical Aperture ( <i>real</i> 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	-	1.4
Geometrical and mechanical			
Core Diameter	μm	10.0 ± 1.0	10.0 ± 1.0
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

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