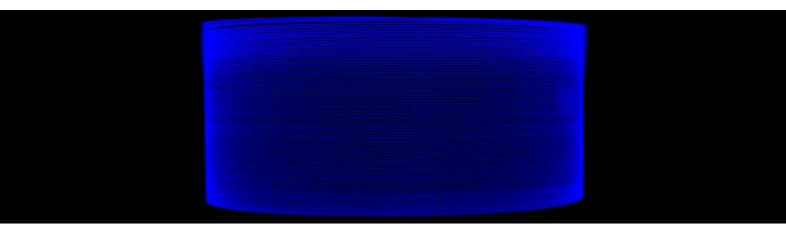


## Yb800-20/125DC-PM

Large Mode Area Double Cladding Ytterbium Doped Fiber



## **Features**

- Direct Nanoparticle Deposition: Industry leading fiber deposition process
- New LIEKKI<sup>®</sup> fiber design for ultrafast, medium power amplifiers: Fiber designed for robust, near diffraction limited beam quality High pump absorption for short application lengths Tightened PM fiber cladding geometries for better connectivity
- Reliability: Improved composition for long term reliability in power and beam quality Coating proven to operate up to 150°C and in extreme humidity
- Compatibility: nLIGHT passive fibers matched for minimal splice loss.

## **Typical Fiber Specifications**

Fiber		LIEKKI <sup>®</sup> Yb800-20/125DC-PM
Optical	Units	
Peak Cladding Absorption at 976 nm (nominal)	dB/m	(21.9)
Cladding Absorption at 920 nm	dB/m	5.1 ± 0.75
Mode Field Diameter at 1060 nm <sup>(1)</sup>	μm	15.0 ± 1.0
Core Numerical Aperture		0.063 ± 0.004
Cladding Numerical Aperture, ≥		0.48
Core background loss at 1200 nm, ≤	dB/km	25
Birefringence, ≥	1E-04	0.8
Geometrical and mechanical		
Core Diameter (nominal)	μm	20.0 ± 1.5
Core Concentricity Error, ≤	μm	1.0
Cladding Diameter	μm	125 ± 1.0
Cladding Geometry		Round, PANDA
Coating Diameter		245 ± 15
Coating Material		Dual coated low index acrylate
Proof Test, ≥	kpsi	100

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

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## **Applications**

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

