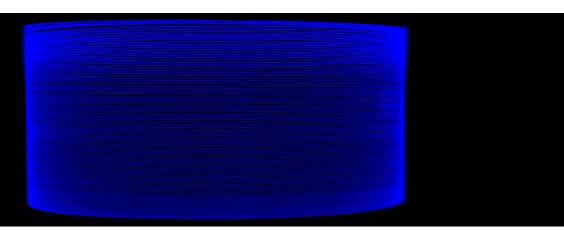


Yb1200-15/250DC-PM

Large Mode Area Double Cladding Ytterbium Doped Fiber



Features

- Direct Nanoparticle Deposition: Industry leading fiber deposition process
- New LIEKKI[®] fiber for linear polarized CW fiber lasers:
 Core design balances robust single-mode operation and onset of nonlinear effects for multi-100W CW power applications.
 Easy fiber handling thanks to 250 µm cladding diameter
 Low intrinsic and photodarkening losses for highest efficiency and reliability
- Reliability: Coating proven to operate up to 150°C and in extreme humidity.
- Compatibility: nLIGHT passive fibers matched for minimal splice loss

Applications

 For linear polarized CW fiber lasers with multi-100W power levels

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- · Industrial applications
- IR sources for frequency doubling

Typical Fiber Specifications

Fiber		LIEKKI® Yb1200-15/250DC-PM
Optical	Units	
Peak Cladding Absorption at 976 nm (nominal)	dB/m	(3.2)
Cladding Absorption at 920 nm	dB/m	0.76 ± 0.14
Core Numerical Aperture (realNA)		0.070 ± 0.005
Cladding Numerical Aperture, ≥		0.48
Core background loss at 1200 nm, ≤	dB/km	15
Birefringence, ≥	1E-04	1.0
Geometrical and mechanical		
Core Diameter	μm	14.5 ± 1.0
Core Concentricity Error, ≤	μm	1.0
Cladding Diameter	μm	250 ± 5.0
Cladding Geometry		Round, PANDA
Coating Diameter		350 ± 15
Coating Material		Dual coated low index acrylate
Proof Test, ≥	kpsi	100

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