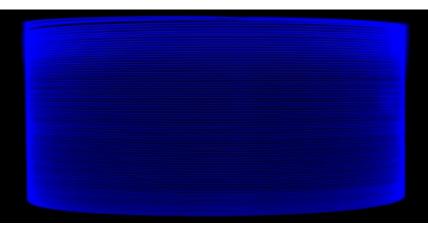


Yb1200-25/250DC(-PM)

Large Mode Area Double Cladding Ytterbium Doped Fiber



Features

- Direct Nanoparticle Deposition: Industry leading fiber deposition process
- realNA: 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 [®] Yb1200-25/250DC	LIEKKI [®] Yb1200-25/250DC-PM
Optical	Units		
Peak Cladding Absorption at 976 nm (nominal)	dB/m	(9.9)	(9.9)
Cladding Absorption at 920 nm	dB/m	2.3 ± 0.3	2.3 ± 0.3
Core Numerical Aperture (realNA)		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	-	1.6
Geometrical and mechanical			
Core Diameter	μm	25.0 ± 1.5	25.0 ± 1.5
Core Concentricity Error, ≤	μm	1.0	1.0
Cladding Diameter (flat-to-flat)	μm	250 ± 5	250 ± 6
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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