

LIEKKI™ Yb1200-10/125

Large Mode Area Ytterbium Doped Fiber



LIEKKI™ Yb1200-10/125 fibers are highly doped large mode area fibers for medium power fiber laser and amplifier applications. The combination of high cladding absorption and single mode core makes them ideal for compact fiber based power amplifiers.

LIEKKI™ Yb1200-10/125 fibers are available as double cladding (Yb1200-10/125DC) and double cladding polarization maintaining (Yb1200-10/125DC-PM) fibers.

Applications

- Medium power amplifiers and lasers
- Pulsed and CW applications
- Industrial, medical and scientific applications

Features

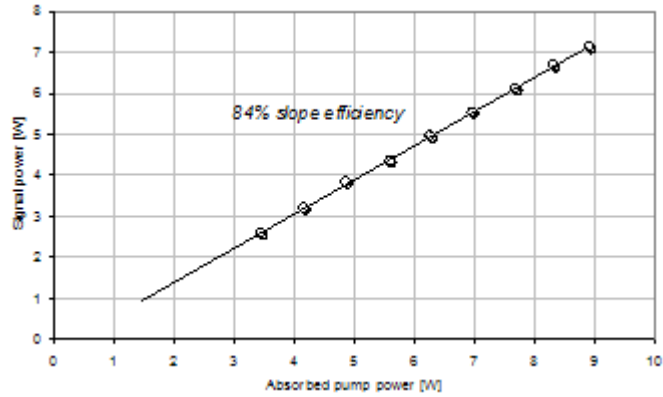
- High brightness single mode core
- High pump absorption
- Large, low NA core
- Low non-linear effects
- High birefringence (Yb1200-10/125DC-PM)
- Highly polarized output for frequency conversion (Yb1200-10/125DC-PM)
- Low photodarkening
- Telecom-like geometry
- Multimode combiners available (Yb1200-10/125DC)

Typical device specification

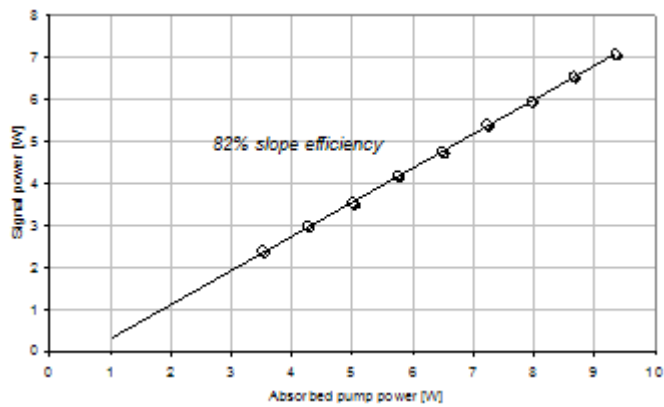
		LIEKKI™ Yb1200-10/125DC	LIEKKI™ Yb1200-10/125DC-PM
Optical			
Peak cladding absorption at 976 nm (nominal)	dB/m	(6.5)	(6.9)
Cladding absorption at 920 nm	dB/m	1.8 ± 0.4	1.8 ± 0.4
Core numerical aperture		0.08 ± 0.01	0.08 ± 0.01
Birefringence			> 1.4E-04
Geometrical and mechanical			
Core diameter	µm	10 ± 1	10 ± 1
Core concentricity error	µm	< 1.5	< 1.5
Cladding diameter	µm	125 ± 2	125 ± 2
Cladding geometry		octagonal	round
Coating diameter	µm	245 ± 15	245 ± 15
Coating material		low index acrylate	low index acrylate
Cladding numerical aperture		> 0.46	> 0.46
Proof test	kpsi	> 100	> 100

Typical performance data

Typical performance data for Yb1200-10/125DC



Typical performance data for Yb1200-10/125DC-PM



Notice

nLIGHT continually improves its products to provide its customers with outstanding quality and reliability. nLIGHT may make changes to specifications and product descriptions at any time, without notice. In addition, nLIGHT offers a limited warranty to ensure customer satisfaction. For complete details, please contact your nLIGHT sales representative.