



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.

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)

Applications

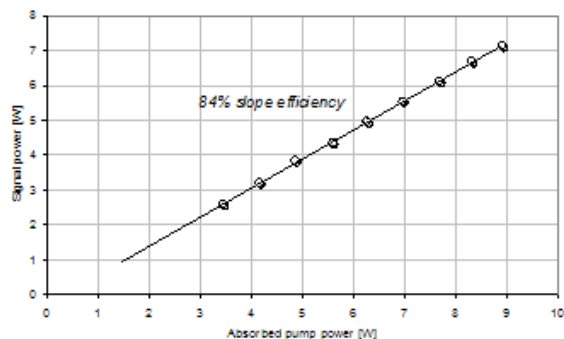
- Medium power amplifiers and lasers
- Pulsed and CW applications
- Industrial, medical and scientific applications

Typical Device Performance

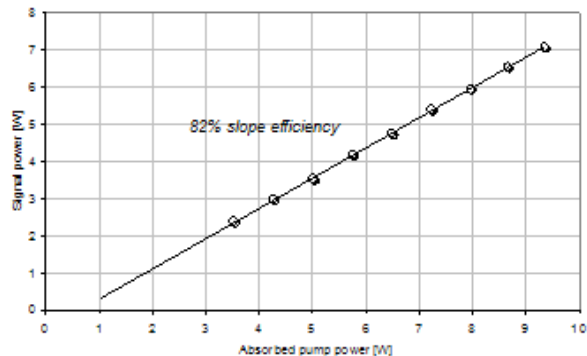
Fiber		LIEKKI™ Yb1200-10/125DC	LIEKKI™ Yb1200-10/125DC-PM
Optical			
Peak Cladding Absorption at 976 nm (nominal)	dB/m	(6.9)	(6.9)
Cladding Absorption at 920 nm	dB/m	1.8 ± 0.4	1.8 ± 0.4
Core Numerical Aperture		0.08 ± 0.01	0.08 ± 0.01
Birefringence			> 1.4E-04
Geometrical and Mechanical			
Core Diameter	µm	10 ± 1	10 ± 1
Core Concentricity Error	µm	< 1.5	< 1.5
Cladding Diameter (flat-to-flat)	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

Yb1200-10/125DC



Yb1200-10/125DC-PM



Proven Performance