



LIEKKI™ Yb1200-30/250 fibers are highly doped fibers which feature very high cladding absorption, high efficiency per application length and excellent beam quality. They are ideal fibers for high average power pulsed fiber amplifiers.

LIEKKI™ Yb1200-30/250 fibers are available as double cladding (Yb1200-30/250DC) and double cladding polarization maintaining (Yb1200-30/250DC-PM) fibers.

Features

- Very high cladding absorption
- Large, low NA core
- Low non-linearities
- Low photodarkening
- Excellent beam quality

Applications

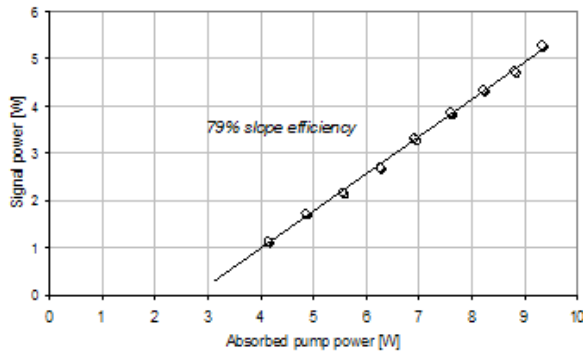
- High average power pulsed amplifiers
- Materials processing
- LIDAR
- Range finding

Typical Device Performance

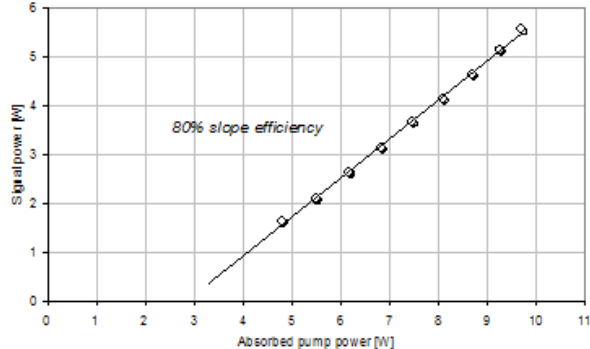
Fiber		LIEKKI™ Yb1200-30/250DC	LIEKKI™ Yb1200-30/250DC-PM
Optical			
Peak Cladding Absorption at 976 nm (nominal)	dB/m	(15.5)	(16.3)
Cladding Absorption at 920 nm	dB/m	3.6 ± 1.0	3.8 ± 1.0
Core Numerical Aperture		0.07 ± 0.01	0.07 ± 0.01
Birefringence			> 1.4E-04
Geometrical and Mechanical			
Core Diameter	µm	30 ± 2	30 ± 2
Core Concentricity Error	µm	< 1.5	< 1.5
Cladding Diameter (flat-to-flat)	µm	250 ± 10	250 ± 10
Cladding Geometry		Octagonal	Round
Coating Diameter	µm	350 ± 15	350 ± 15
Coating Material		Low Index Acrylate	Low Index Acrylate
Cladding Numerical Aperture		> 0.46	> 0.46
Proof Test	Kpsi	> 100	> 100

Typical Performance Data

Yb1200-30/250DC



Yb1200-30/250DC-PM



Proven Performance