LIEKKI™ Yb1200-20/400 – Large Mode Ytterbium Doped Fiber

LIEKKI™ Yb1200-20/400 fibers are highly doped fibers for medium power fiber lasers and amplifiers. They combine a large core with excellent beam quality and 400 µm cladding capable of accepting medium pump powers.

LIEKKI™ Yb1200-20/400 fibers are available as double cladding (Yb1200-20/400DC) and double cladding polarization maintaining (Yb1200-20/400DC-PM) fibers.

Features

- Medium pump absorption (Yb1200-20/400DC-PM)
- High pump absorption (Yb1200-20/400DC)
- Low photodarkening
- Large, low NA core
- Low non-linear effects
- High birefringence (Yb1200-20/400DC-PM)
- Excellent beam quality
- Large cladding for medium power pumping
- Multimode combiners available (Yb1200-20/400DC)

Applications

- Medium power CW on pulsed fiber lasers and amplifiers
- Medical, industrial and scientific applications
- Medium power, high beam quality applications

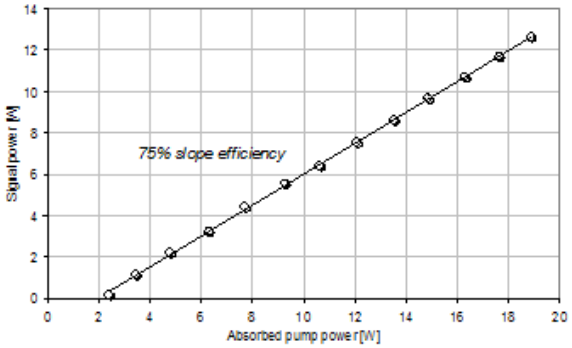
Proven Performance

Typical Device Performance

Fiber		LIEKKI™ Yb1200-20/400DC	LIEKKI™ Yb1200-20/400DC-PM
Optical			
Peak Cladding Absorption at 976 nm (nominal)	dB/m	(3.0)	(3.0)
Cladding Absorption at 920 nm	dB/m	0.7 ± 0.2	0.7 ± 0.2
Core Numerical Aperature		0.07 ± 0.005	0.07 ± 0.005
Birefringence			> 1.4E-04
Geometrical and Mechanical			
Core Diameter	µm	20 ± 2	20 ± 2
Core Concentricity Error	µm	< 1.5	< 1.5
Cladding Diameter (flat-to-flat)	µm	400 ± 15	400 ± 15
Cladding Geometry		Octagonal	Round
Coating Diameter	µm	520 ± 15	520 ± 15
Coating Material		Low Index Acrylate	Low Index Acrylate
Cladding Numerical Aperture		> 0.46	> 0.46
Proof Test	Kpsi	> 50	> 50

Typical Performance Data

Yb1200-20/400DC



Yb1200-20/400DC-PM