

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

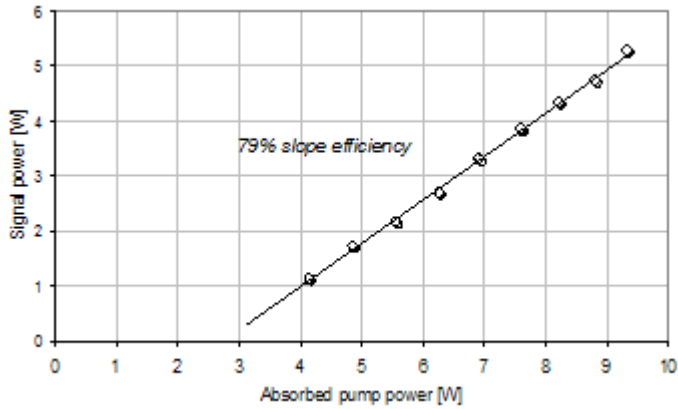
Typical Device Performance

| 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 |

Proven Performance

Typical Performance Data

Yb1200-30/250DC



Yb1200-30/250DC-PM

