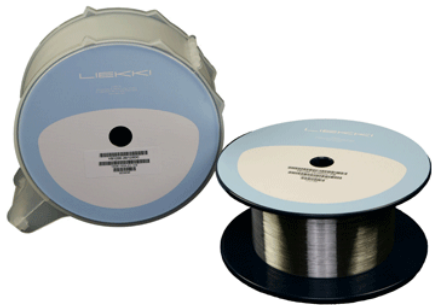


# LIEKKI™ Yb1200-20/400

## Large Mode Area 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.

### Applications

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

### Features

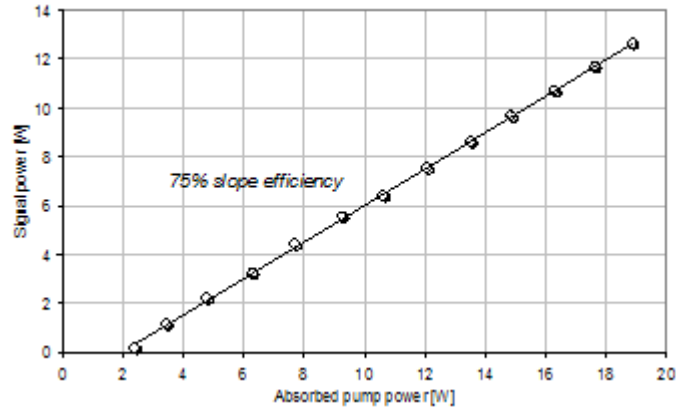
- Medium pump absorption (Yb1200-20/400DC-PM)
- High pump absorption (Yb1200-20/400DC)
- Low photodarkening
- Large, low NA core
- Low non-linear effects
- High birefringence (Yb1200-20/400DC-PM)
- Excellent beam quality
- Large cladding for medium power pumping
- Multimode combiners available (Yb1200-20/400DC)

### Typical device specification

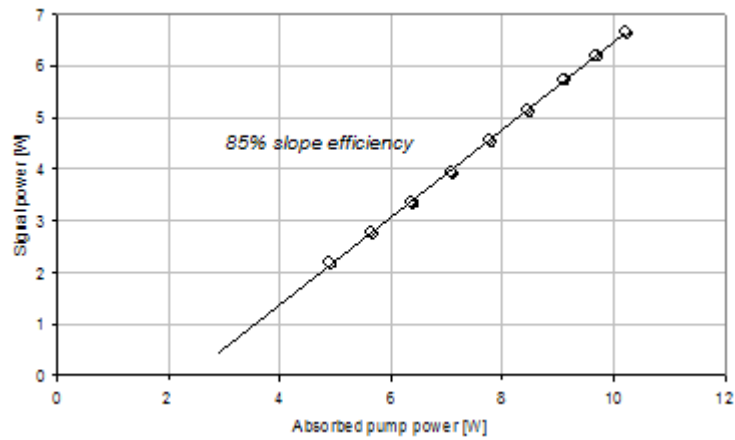
|  |      | LIEKKI™ Yb1200-20/400DC | LIEKKI™ Yb1200-20/400DC-PM |
|--|------|-------------------------|----------------------------|
| <b>Optical</b>                               |      |                         |                            |
| Peak cladding absorption at 976 nm (nominal) | dB/m | (3.0)                   | (3.0)                      |
| Cladding absorption at 920 nm                | dB/m | 0.7 ± 0.2               | 0.7 ± 0.2                  |
| Core numerical aperture                      |      | 0.07 ± 0.01             | 0.07 ± 0.01                |
| Birefringence                                |      |                         | > 1.4E-04                  |
| <b>Geometrical and mechanical</b>            |      |                         |                            |
| Core diameter                                | µm   | 20 ± 2                  | 20 ± 2                     |
| Core concentricity error                     | µm   | < 1.5                   | < 1.5                      |
| Cladding diameter                            | µm   | 400 ± 15                | 400 ± 15                   |
| Cladding geometry                            |      | octagonal               | round                      |
| Coating diameter                             | µm   | 500 ± 15                | 500 ± 15                   |
| Coating material                             |      | low index acrylate      | low index acrylate         |
| Cladding numerical aperture                  |      | > 0.46                  | > 0.46                     |
| Proof test                                   | kpsi | > 50                    | > 50                       |

### Typical performance data

Typical performance data for Yb1200-20/400DC



Typical performance data for Yb1200-20/400DC-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.