



LIEKKI™ Yb1200-6/125 fibers are highly doped single mode fibers for medium power fiber laser and amplifier applications. Their telcom-like geometry makes them compatible with many fiber based components like fiber gratings and combiners. They are ideal fibers for low-cost marking lasers and pumping sources.

LIEKKI™ Yb1200-6/125 fibers are available as double cladding (Yb1200-6/125DC) and double cladding polarization maintaining (Yb1200-6/125DC-PM) fibers.

Features

- High brightness single mode core
- High birefringence (Yb1200-6/125DC-PM)
- High cladding absorption
- Low photodarkening
- Telcom-like geometry
- Good spliceability to HI1060 single mode fibers (Yb1200-6/125DC) and polarization maintaining passive fibers (Yb1200-6/125DC-PM)
- Multimode combiners available

Applications

- Laser marking
- High brightness pump sources
- IR sources for frequency doubling

Proven Performance

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Typical Device Performance

| Fiber | | LIEKKI™ Yb1200-6/125DC | LIEKKI™ Yb1200-6/125DC-PM |
|--|------|------------------------|---------------------------|
| Optical | | | |
| Mode Field Diameter at 1060 nm | μm | 6.0 ± 0.8 | 6.0 ± 0.8 |
| Peak Cladding Absorption at 976 nm (nominal) | dB/m | (2.6) | (2.6) |
| Cladding Absorption at 920 nm | dB/m | 0.6 ± 0.2 | 0.6 ± 0.2 |
| Core Numerical Aperture | | 0.15 ± 0.01 | 0.15 ± 0.01 |
| Birefringence | | | > 2.0E-04 |
| Geometrical and Mechanical | | | |
| Core Concentricity Error | μm | < 1.0 | < 1.0 |
| 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

