



LIEKKI™ Er120-20/125 fibers are large mode area erbium doped fibers suitable for medium power amplifiers and lasers. These fibers are ideally suited for compact, eye-safe devices (1.55 - 1.6 μm region). Both 980 nm and 1480 nm pump diodes may be used for pump sources.

LIEKKI™ Er120-20/125 fibers are currently only available as double cladding (Er120-20/125DC) fibers.

Features

- Good beam quality through low numerical aperture core
- Good efficiency
- Suitable for both 980 nm and 1480 nm pumping
Pump combiner available for the 20/125 geometry

Applications

- Eye-safe fiber lasers (CW/pulsed) and amplifiers operating in 1.55 - 1.6 μm region
- LIDAR
- Medical
- Sensing

Proven Performance

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Typical Device Performance

| Fiber | | LIEKKI™ Er120-20/125DC |
|-----------------------------------|--------|------------------------|
| Optical | | |
| Cladding Absorption at 1530 nm | dB/m | 2.9 ± 0.6 |
| Cladding Absorption at 980 nm | (dB/m) | (1.0) |
| Core Numerical Aperture (nominal) | nm | 0.09 ± 0.01 |
| Geometrical and Mechanical | | |
| Core Diameter | | 20 ± 2 |
| Core Concentricity Error | µm | < 1.5 |
| Cladding Diameter | µm | 125 ± 2 |
| Cladding Geometry | µm | Octagonal |
| Coating Diameter | µm | 245 ± 15 |
| Coating Material | | Low Index Acrylate |
| Cladding Numerical Aperture | | > 0.46 |
| Proof Test | Kpsi | > 100 |