



LIEKKI<sup>TM</sup> Yb1200-4/125 fibers are highly doped single mode ytterbium fibers for low-noise, low-nonlinearity preamplifiers and lasers. Their telcom-like geometry makes them compatible with low-cost pump diodes and standard single mode passive fibers. They make an excellent preamplifier in a fiber amplifier chain with double cladding fiber acting as power amplifier.

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**Applications** 

preamplifiers

and amplifiers

ASE sources

Low-power, low-noise

CW and pulsed lasers

### **Features**

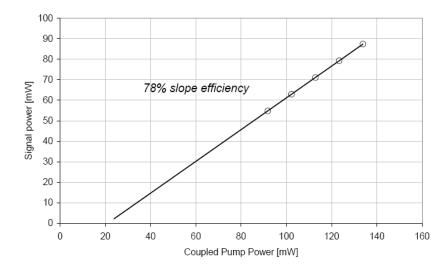
- Very short application lengths
- Low nonlinear effects
- Low photodarkening
- Telcom-like geometry
- Good spliceability to HI1060 single mode fibers
- Telcom grade dual layer UV-cured acrylate coating

# **Typical Device Performance**

| Package                                  |                                       | LIEKKI <sup>™</sup> Yb1200-4/125 |
|--|---------------------------------------|----------------------------------|
| Optical                                  | · · · · · · · · · · · · · · · · · · · |                                  |
| Mode Field Diameter at 1060 nm           | μm                                    | $4.4 \pm 0.8$                    |
| Peak Core Absorption at 976 nm (nominal) | dB/m                                  | (1200)                           |
| Core Absorption at 920 nm                | dB/m                                  | (280)                            |
| Core Numerical Aperture (nominal)        |                                       | 0.2                              |
| Cut-off Wavelength                       | nm                                    | 1010 ± 70                        |
| Geometrical and Mechanical               |                                       |                                  |
| Core Concentricity Error                 | μm                                    | < 0.7                            |
| Cladding Diameter                        | μm                                    | 125 ± 2                          |
| Cladding Geometry                        |                                       | Round                            |
| Coating Diameter                         | μm                                    | 245 ± 15                         |
| Coating Material                         |                                       | High Index Acrylate              |
| Cladding Numerical Aperture              |                                       | > 0.46                           |
| Proof Test                               | Kpsi                                  | > 100                            |

## **Proven Performance**

# **Typical Performance Data**



#### **Proven Performance**