## *n*LIGHT

# LIEKKI<sup>™</sup> (6+1)x1 multimode pump and signal combiners

LIEKKI<sup>™</sup> (6+1)x1 pump and signal combiners are used to combine the power from six multimode laser diodes and couple it with a signal feed. The combined power can be used for high power fiber amplifier and laser applications in industrial, military, medical and communications. These devices offer efficient power transfer with a maximum conservation of brightness.

LIEKKI<sup>TM</sup> combiners are available in a variety of pump and signal fiber geometries. Their fiber design provides reliable delivery of high power levels. LIEKKI<sup>TM</sup> combiners are optically matched with LIEKKI<sup>TM</sup> ytterbium active fibers.

### **Applications**

### Cladding pumped fiber amplifiers

• Cladding pumped fiber lasers

## **Features and benefits**

- All fiber, highly reliable
- Preserves modal content

## Specifications

EKKI <sup>TM</sup> LIEKKI <sup>TM</sup> er-20/125DC         Combiner-20/400           > 0.5         > 0.5           105         200           125         220           0.15 <sup>1</sup> 0.22 $20 \pm 2$ $20 \pm 2$ $7 \pm 0.01$ $0.07 \pm 0.01$
$105$ $200$ $125$ $220$ $0.15^1$ $0.22$ $20 \pm 2$ $20 \pm 2$ $7 \pm 0.01$ $0.07 \pm 0.01$
$105$ $200$ $125$ $220$ $0.15^1$ $0.22$ $20 \pm 2$ $20 \pm 2$ $7 \pm 0.01$ $0.07 \pm 0.01$
$125$ $220$ $0.15^1$ $0.22$ $20 \pm 2$ $20 \pm 2$ $7 \pm 0.01$ $0.07 \pm 0.01$
$\begin{array}{c} 0.15^{1} \\ 0.22 \\ 0.15^{2} \\ 0.15^{2} \\ 0.01 \\ 0.07 \pm 0.01 \end{array}$
$\begin{array}{c} 20 \pm 2 \\ 7 \pm 0.01 \end{array} \begin{array}{c} 20 \pm 2 \\ 0.07 \pm 0.01 \end{array}$
7 ± 0.01 0.07 ± 0.01
7 ± 0.01 0.07 ± 0.01
25 ± 2 400 ± 8
$20 \pm 2$ $20 \pm 2$
$7 \pm 0.01$ $0.07 \pm 0.01$
25 ± 2 400 ± 8
0.46 0.46
> 0.5 > 0.5
0 - 1100 1000 - 1100
900 - 1000
> 90 > 90
8 100
> 80 > 80
> 40 > 40
> 40 > 40
to +30 +0 to +30
to +70 -5 to +70

 $^{1}$  0.22 available with > 80% pump transmission

#### 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.