

LIEKKI™ Yb700-20/125

Large Mode Area Ytterbium Doped Fiber



LIEKKI™ Yb700-20/125 fibers are amplifier fibers with large core to cladding area ratio. The fibers have high photodarkening resistivity and a short application length.

LIEKKI™ Yb700-20/125 fibers are currently only available as double cladding (Yb700-20/125DC) fibers.

Applications

- High peak power, moderate average power amplifiers
- Marking

Features

- High photodarkening resistivity
- Large core to cladding area ratio, short application length
- Matching 6+1:1 pump to signal combiner is available

Typical device specification

LIEKKI™ Yb700-20/125DC

Optical

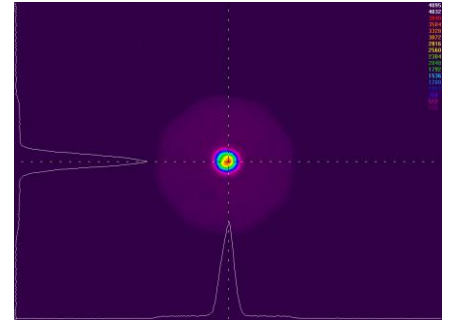
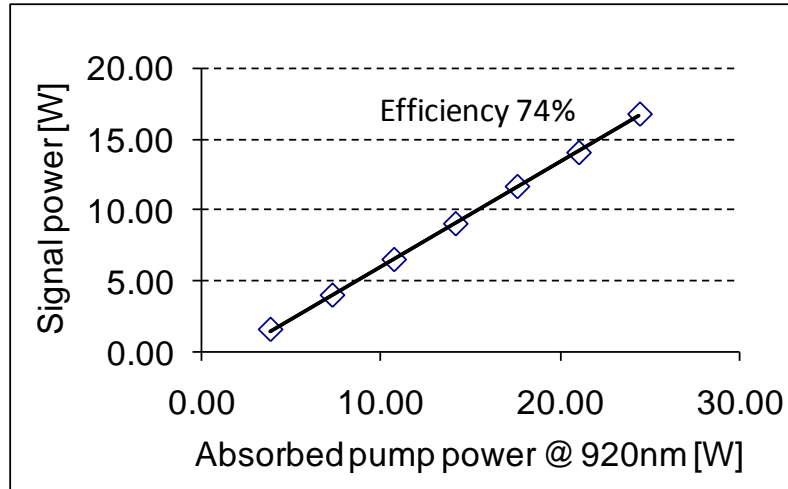
Peak cladding absorption at 976 nm (nominal)	dB/m	(14.6) to (17.2)
Cladding absorption at 920 nm	dB/m	3.4 ± 0.7 to 4.0 ± 0.5
Core numerical aperture		0.08 ± 0.01

Geometrical and mechanical

Core diameter	µm	20 ± 2
Core concentricity error	µm	< 1.5
Cladding diameter	µm	125 ± 2
Cladding geometry		Octagonal
Coating diameter	µm	245 ± 15
Coating material		Low index acrylate
Cladding numerical aperture		> 0.46
Proof test	kpsi	> 100

Typical performance data

Typical performance data for Yb600-20/125DC



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.