

LIEKKI™ Yb700-25/250

Large Mode Area Ytterbium Doped Fiber



LIEKKI™ Yb700-25/250 fibers are amplifier fibers with large core to cladding area ratio. The fibers have high photodarkening resistivity and a short application length.

LIEKKI™ Yb700-25/250 fibers are available as double cladding (Yb700-25/250DC) and double cladding polarization maintaining (Yb700-25/250DC-PM) fibers.

Applications

- CW amplification
- Pulsed amplification
- Nonlinear wavelength conversion

Features

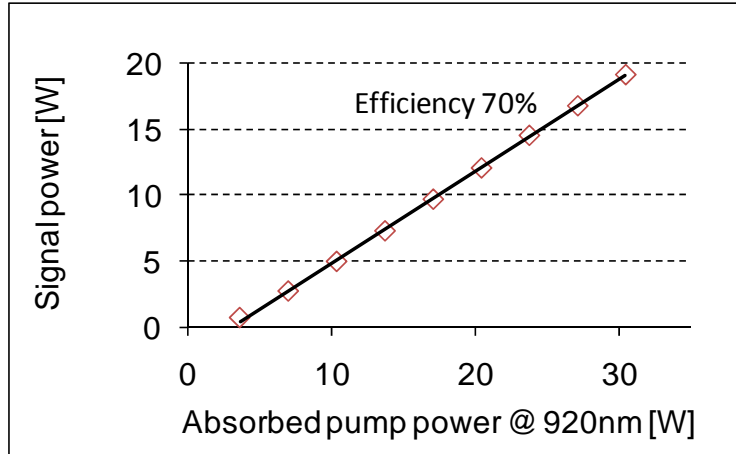
- High photodarkening resistivity
- Large core to cladding area ratio, short application length

Typical device specification

		LIEKKI™ Yb700-25/250DC	LIEKKI™ Yb700-25/250DC-PM
Optical			
Peak cladding absorption at 976 nm (nominal)	dB/m	(6.5)	(6.5)
Cladding absorption at 920 nm	dB/m	1.5 ± 0.2	1.5 ± 0.2
Core numerical aperture		0.07 ± 0.01	0.07 ± 0.01
Birefringence			> 1.40E-04
Geometrical and mechanical			
Core diameter	µm	25 ± 2.5	25 ± 2.5
Core concentricity error	µm	< 1.5	< 1.5
Cladding diameter	µm	250 ± 15	250 ± 15
Cladding geometry		Octagonal	Round
Coating diameter	µm	350 ± 15	350 ± 15
Coating material		Low index acrylate	Low index acrylate
Cladding numerical aperture		> 0.46	> 0.46
Proof test	kpsi	> 100	> 100

Typical performance data

Typical performance data for Yb700-25/250DC

**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.