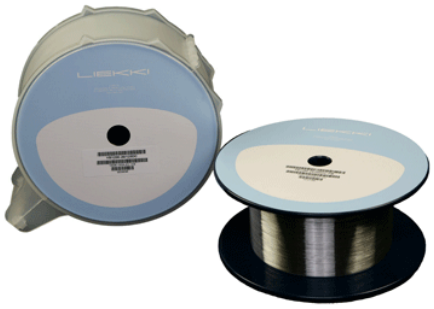
LIEKKI™ Yb1200-6/125

Single Mode Ytterbium Doped Fiber



LIEKKI™ Yb1200-6/125 fibers are highly doped single mode fibers for medium power fiber laser and amplifier applications. Their telcom-like geometry makes them compatible with many fiber based components like fiber gratings and combiners. They are ideal fibers for low-cost marking lasers and pumping sources.

LIEKKI™ Yb1200-6/125 fibers are available as double cladding (Yb1200-6/125DC) and double cladding polarization maintaining (Yb1200-6/125DC-PM) fibers.

Applications

- Laser marking
- High brightness pump sources
- IR sources for frequency doubling

Features

- High brightness single mode core
- High birefringence (Yb1200-6/125DC-PM)
- High cladding absorption
- Low photodarkening
- Telcom-like geometry
- Good spliceability to HI1060 single mode fibers (Yb1200-6/125DC) and polarization maintaining passive fibers (Yb1200-6/125DC-PM)
- Multimode combiners available

Typical device specification

		LIEKKI™ Yb1200-6/125DC	LIEKKI™ Yb1200-6/125DC-PM
Optical			
Mode field diameter at 1060 nm	µm	6.0 ± 0.8	6.0 ± 0.8
Peak cladding absorption at 976 nm (nominal)	dB/m	(2.6)	(2.6)
Cladding absorption at 920 nm	dB/m	0.6 ± 0.2	0.6 ± 0.2
Core numerical aperture		0.15 ± 0.01	0.15 ± 0.01
Birefringence			> 2.0E-04
Geometrical and mechanical			
Core concentricity error	µm	< 1.0	< 1.0
Cladding diameter (flat-to-flat)	µm	125 ± 2	125 ± 2
Cladding geometry		octagonal	round
Coating diameter	µm	245 ± 15	245 ± 15
Coating material		low index acrylate	low index acrylate
Cladding numerical aperture		> 0.46	> 0.46
Proof test	kpsi	> 100	> 100

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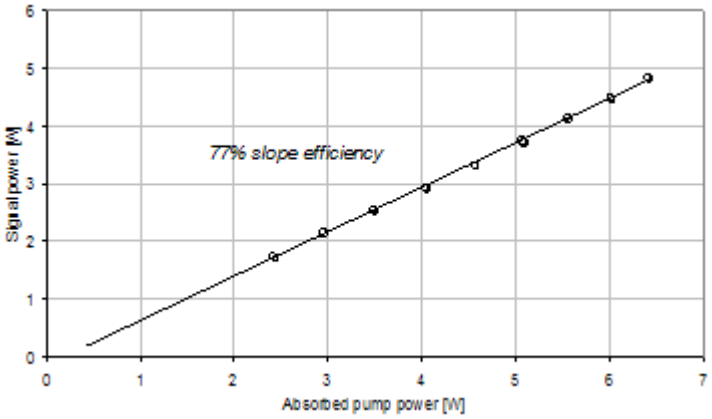
Typical Device Performance

Typical performance data for Yb1200-6/125DC



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