



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.

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

Applications

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

Proven Performance

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Typical Device Performance

Fiber		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

Typical Performance Data

