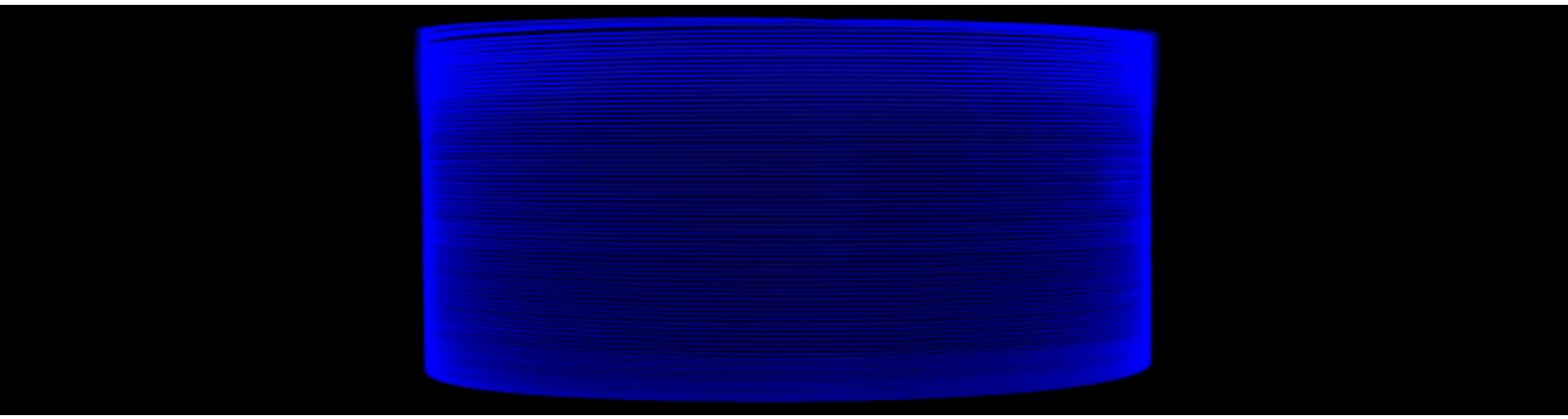
LIEKKI®

Tm1500-10/125DC

Single Mode Double Cladding Thulium Doped Fiber



Features

- **Direct Nanoparticle Deposition**: Industry leading fiber deposition process
- **Design**: Cladding pumped design with pedestal
- **Performance**:
  Thulium concentrations optimized for highest efficiencies (>60% at 1970nm)
  High cladding absorption
  Single mode operation
- **Reliability**: Coating proven to operate up to 150˚C and in extreme humidity
- **Compatibility**: nLIGHT passive fibers matched for minimal splice loss

Applications

- Low to medium power cladding pumped fiber lasers and amplifiers
- Pulsed and CW applications in industrial and medical lasers
- LIDAR

Typical Fiber Specifications

Fiber		LIEKKI® Tm1500-10/125DC
Optical	**Units**	
Cladding Absorption at 1180 nm (nominal)	dB/m	(2.40)
Cladding Absorption at 789 nm	dB/m	9.5 ± 2.5
Core Numerical Aperture (*real*NA)		0.150 ± 0.01
Cladding Numerical Aperture, ≥		0.48
Geometrical and mechanical		
Core Diameter	µm	10.0 ± 1.0
Core Concentricity Error, ≤	µm	1.0
Cladding Diameter (flat-to-flat)	µm	125 ± 2
Pedestal		Yes
Cladding Geometry		Octagonal
Coating Diameter		245 ± 15
Coating Material		Dual coated low index acrylate
Proof Test, ≥	kpsi	100

+358 19 357391 | fibers@nlight.net | www.nlight.net

nLIGHT