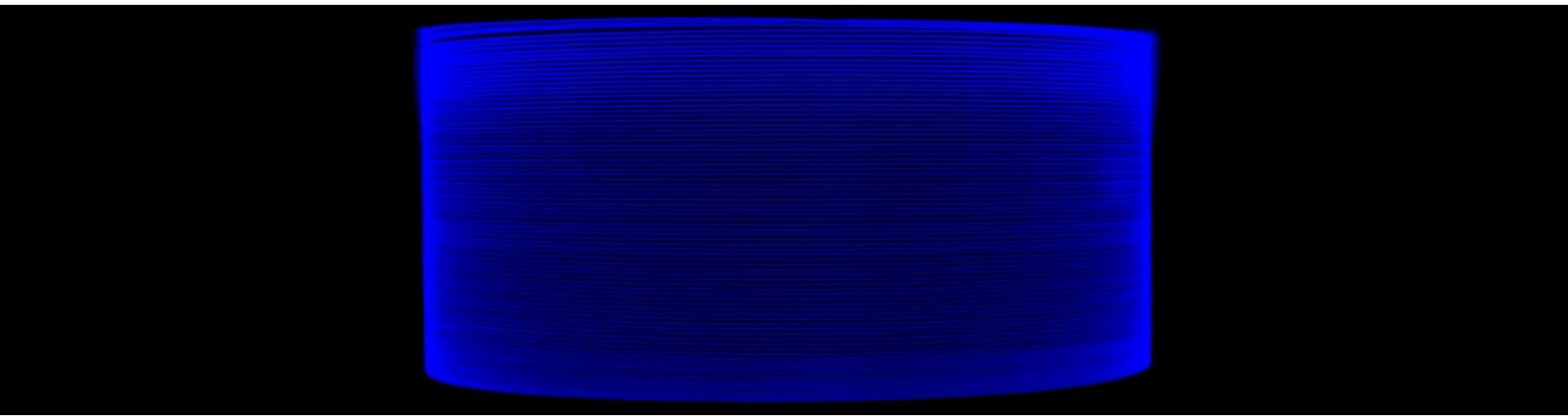
LIEKKI®

Er80-4/125-HD-PM

Single Mode Single Clad Erbium Doped Fiber



Features

- **Direct Nanoparticle Deposition**: Industry leading fiber deposition process
- **Performance**:
  High Erbium doping for short application length and low nonlinearities
  Unique fiber design for high normal dispersion
  Suitable for both 980nm and 1480nm pumping
- **Reliability**: Telecom grade dual layer UV-cured acrylate coating

Applications

- Ultrashort (fs) pulsed amplifiers and lasers
- Applications requiring low non-linearity and high normal dis-persion

Typical Fiber Specifications

Fiber		LIEKKI® Er80-4/125-HD-PM
Optical	**Units**	
Mode Field Diameter at 1550 nm (1)	µm	6.5 ± 1.0
Peak Core Absorption at 1530 nm	dB/m	80.0 ± 20.0
Core Numerical Aperture (nominal)		0.2
Cut-off wavelength (2)	nm	890 ± 90
Dispersion parameter at 1550 nm (nominal) (3)	ps/ (nm*km)	-22
Birefringence, ≥	1E-04	1.0
Geometrical and mechanical		
Core Concentricity Error, ≤	µm	0.7
Core Ellipticity Error, ≤	%	5.0
Cladding Diameter	µm	125 ± 3
Cladding Geometry		Round, PANDA
Coating Diameter		245 ± 15
Coating Material		Dual coated high index acrylate
Proof Test, ≥	kpsi	100

(1) Near-field Mode Field Diameter
(2) Calculated value
(3) Actual dispersion in fiber might vary depending on core diameter, refractive index profile and Erbium ion inversion level.

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