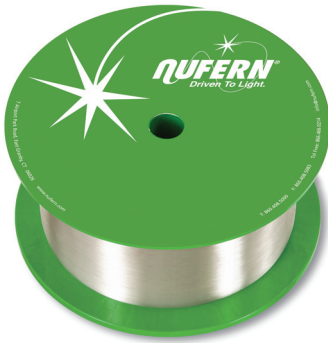


PM Erbium-Doped Single-Mode Fiber



Nufern's high performance erbium-doped fiber and industry leading PM PANDA-style fiber capabilities are combined in a unique PM erbium fiber product, PM-ESF-7/125. Featuring a high erbium concentration (peak absorption 55 dB/m) and high pump conversion efficiency achieved with proprietary technology that delivers industry leading tolerances on the key spectroscopic parameters. The non-PM SM-ESF-7/125 is also available for applications that do not require a polarized signal.

Typical Applications

- PM amplifiers
- Polarized lasers
- Ultra-short pulse laser

Features & Benefits

- PANDA-style stress structure for increased birefringence — superior optical performance and uniformity
- High Er dopant concentration — enables short length devices
- High efficiency — good conversion of pump to signal power

Optical Specifications

Operating Wavelength (nominal)	C-Band and L-Band
Mode Field Diameter (MFD)	8.8 ± 1.0 μm @ 1550 nm
Mode Field Diameter (MFD)	9.1 ± 1.0 μm @ 1620 nm
Peak Absorption near 1530 nm	55 ± 5 dB/m
Second Mode Cut-Off	1460 ± 60 nm
Normalized Cross-Talk @ 1300 nm	≤ -35 dB @ 4 meters
Birefringence	≥ 3.5 × 10 ⁻⁴
Numerical Aperture (nominal)	0.15

PM-ESF-7/125

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Birefringence	≥ 3.5 × 10 ⁻⁴
Numerical Aperture (nominal)	0.15

SM-ESF-7/125

Operating Wavelength (nominal)	C-Band and L-Band
Mode Field Diameter (MFD)	8.8 ± 1.0 μm @ 1550 nm
Mode Field Diameter (MFD)	9.1 ± 1.0 μm @ 1620 nm
Peak Absorption near 1530 nm	55 ± 5 dB/m
Second Mode Cut-Off	1400 ± 60 nm
Normalized Cross-Talk @ 1300 nm	N/A
Birefringence	N/A
Numerical Aperture (nominal)	0.15

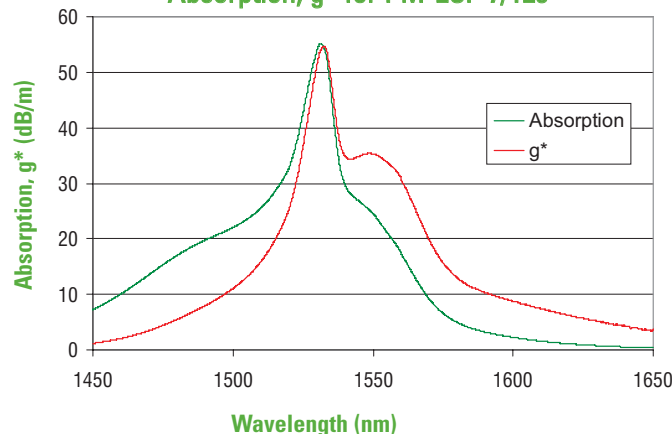
Geometrical & Mechanical Specifications

Clad Diameter	125.0 ± 1.5 μm
Coating Diameter	245 ± 15 μm
Core-Clad Concentricity	< 0.5 μm
Coating/Clad Offset	≤ 5 μm
Proof Test Level	≥ 100 kpsi (0.7 GN/m ²)
Coating Material	UV Cured, Dual Acrylate
Operating Temperature	- 40 to +85° C

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Absorption, g* for PM-ESF-7/125



RoHS



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