



PM Erbium-Doped Singlemode Fiber

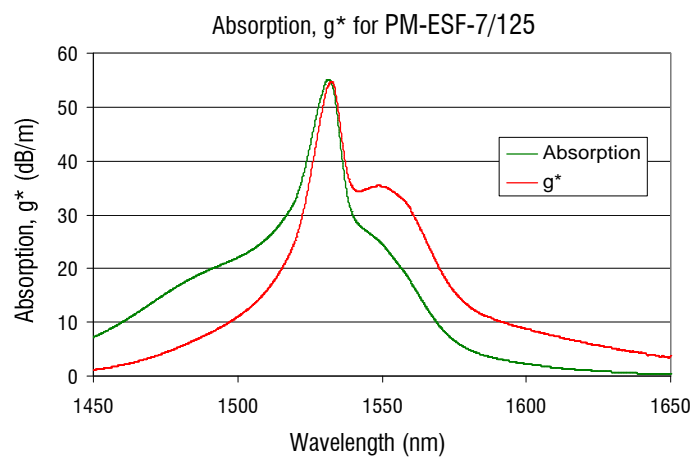
Nufern's high performance erbium fiber and industry leading PM panda-style fiber capabilities are combined in a unique PM erbium fiber product, PM-ESF-7/125. Featuring a high erbium concentration (peak absorption 55dB/m) and high pump conversion efficiency achieved with proprietary technology that delivers industry leading tolerances on the key spectroscopic parameters.

OPTICAL SPECIFICATIONS

Operating Wavelength (nominal)	PM-ESF-7/125
MFD @ 1550 nm	C-Band and L-Band
MFD @ 1620 nm	8.8 ± 1.0 μm
Peak Absorption near 1530 nm	9.1 ± 1.0 μm
Second Mode Cut-Off	55 ± 5 dB/m
Normalized Cross-Talk @ 1300 nm	1450 ± 50 nm
Birefringence	≤ -35 dB @ 4 meters
Numerical Aperture (nominal)	≥ 3.5 x 10 ⁻⁴
	0.15

GEOMETRICAL AND MECHANICAL SPECS

Clad Diameter	125 ± 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



Applications:

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

Features and Benefits:

- Polarization-maintaining
- High dopant core for short devices
- High efficiency

Standard specifications and design parameters are listed above. Other configurations such as alternative form factors, optimized cut-off and UV cured color coating may be available. Let us know how Nufern can assist with your requirements. Call 860-408-5000, toll free at 866-466-0214 or email us at info@nufern.com.



Experience Determination

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