



PM 5/125 Neodymium-Doped Double-Clad Fiber

Nufern's Neodymium doped PM-double clad fiber is specifically designed for efficient single mode operation around 1060 nm when cladding pumped at 808nm. A 6 μm mode field diameter allows low splice losses to standard single mode fibers and the 125 μm cladding diameter is compatible with a variety of industry standard pump combiners. The polarization maintaining design enables construction of pulsed and CW PM fiber amplifiers.

OPTICAL SPECIFICATIONS

PM-NDF-5/125

Operating Wavelength (nominal)	1060
Second Mode Cut-Off	980 \pm 50 nm
MFD @ 1060 nm	6.0 \pm 1.0 μm
Cladding Neodymium Absorption @ 808 nm	1.0 \pm 0.3 dB/m
Core Numerical Aperture (nominal)	0.15
Cladding Numerical Aperture (nominal)	0.46
Birefringence (nominal)	2.8 x 10 ⁻⁴

GEOMETRICAL AND MECHANICAL SPECS

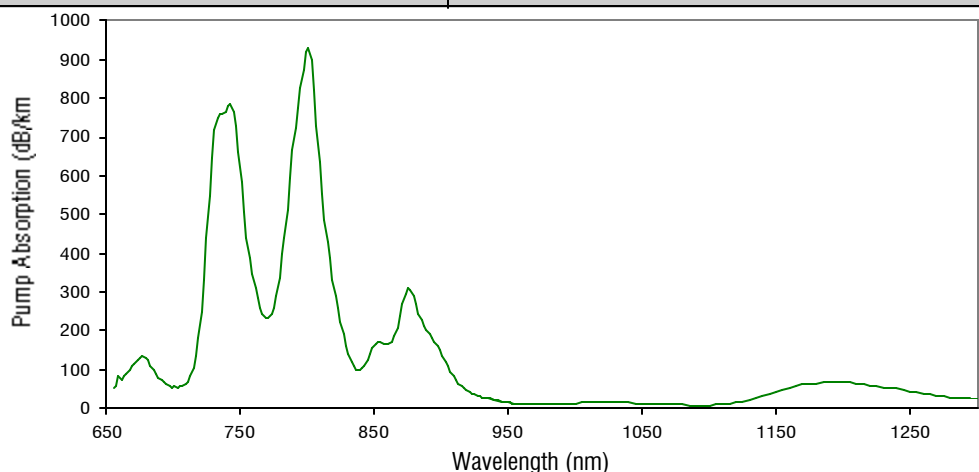
Clad Diameter	125 \pm 2 μm
Coating Diameter	245 \pm 15 μm
Outer Cladding Material	Low Index Polymer

Applications:

- CW and pulsed fiber lasers
- PM fiber amplifiers
- An alternative to Yb-doped fibers for 1060 nm operation

Features and Benefits:

- Single mode output at 1060 nm
- Panda-style Polarization-maintaining design
- Compatible with 808 nm pump diodes
- 125 μm cladding compatible with standard pump combiners



Standard specifications and design parameters are listed above. Other configurations 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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