

# PM 5/125 Neodymium-Doped Double-Clad Fiber

Single-mode core — Perfect beam quality, compatible with standard single-mode fibers

PANDA-style stress structure for increased birefringence — Superior optical performance and uniformity

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.

### **Typical Applications**

# Features & Benefits

**PM-NDF-5/125** 

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

#### **Optical Specifications**

Operating Wavelength (nominal)1060 nmCore NA0.150First Cladding NA (5%)≥ 0.46Mode Field Diameter6.0 ± 1.0

First Cladding NA (5%) Mode Field Diameter Cutoff Cladding Absorption Birefringence

#### Geometrical & Mechanical Specifications

Cladding Diameter Core Diameter Coating Diameter Second Cladding Material Prooftest Level

## 1060 nm 0.150 ≥ 0.46 6.0 ± 1.0 μm @ 1060 nm 980 ± 50 nm 1.0 ± 0.3 dB/m at 808 nm nominal 2.8 × 10<sup>-4</sup>

125.0 ± 2.0 μm 5.0 μm 245.0 ± 15.0 μm Low Index Polymer ≥ 100 kpsi (0.7 GN/m²)







光技術をサポートする **北 式会社オプトサイエンス** http://www.optoscience.com

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