1060 nm Polarization Maintaining **Fiber**



Nufern's broad line of PM fibers now includes PM1060L & PM1060L-FA fibers. These fibers are optimized for operation at 1060 nm and feature a low 0.085 NA (L). They are ideally designed for pump combiner and coupler applications for singlemode fiber lasers. The PM1060L fiber is a single clad fiber and PM106-FA is double clad fiber to cover all your application needs. Utilizing the PANDA design, these fibers demonstrate superior polarization control, resulting in increased system

Typical Applications

- · Couplers and combiners
- Pump combiners

Features & Benefits

- · Low insertion loss Lower system cost
- · Low 0.085 NA- maintains single-mode operation
- · Single clad and double clad devices · Tight specifications Highly deterministic results, highest product yield

Optical Specifications

Operating Wavelength Core NA First Cladding NA (5%) Mode Field Diameter (Gaussian)

> Cutoff Core Attenuation Cladding Attenuation Beat Length Normalized Cross Talk

Geometrical & Mechanical Specifications

Cladding Diameter Core Diameter **Coating Diameter Coating Concentricity** Core/Clad Offset Operating Temperature Range Prooftest Level

PM1060L

980 - 1150 nm 0.085 N/A 10.5 ± 0.5 µm @ 1060 nm 10.5 ± 0.5 μm @ 1060 nm $940 \pm 40 \text{ nm}$ ≤ 5.0 dB/km @ 1060 nm

N/A ≤ 3.5 mm @ 1060 nm ≤ - 40.0 dB at 5 m @ 980

≤ - 30.0 dB at 100 m @ 980 nm

 $125.0 \pm 1.0 \, \mu m$ 8.5 µm 245.0 ± 15.0 µm

 $< 5.0 \mu m$ $\leq 0.50 \, \mu m$

-40 to 85 °C

≥ 100 kpsi (0.7 GN/m²)

M05-A-014-A

PM1060L-FA

980 - 1150 nm 0.085

≥ 0.460

 $10.5 \pm 0.5 \, \mu m$ @ 1060 nm $10.5 \pm 0.5 \, \mu m$ @ 1060 nm

 $940 \pm 40 \text{ nm}$

≤ 5.0 dB/km @ 1060 nm

≤ 15.0 dB/km @ 1095 nm

≤ 3.5 mm @ 1060 nm

≤ - 30.0 dB at 100 m @

980 nm

≤ - 40.0 dB at 5 m @ 980

 $125.0 \pm 1.0 \, \mu m$ 8.5 µm $245.0 \pm 15.0 \, \mu m$ $< 5.0 \, \mu m$ ≤ 0.50 µm

N/A

≥ 100 kpsi (0.7 GN/m²)





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