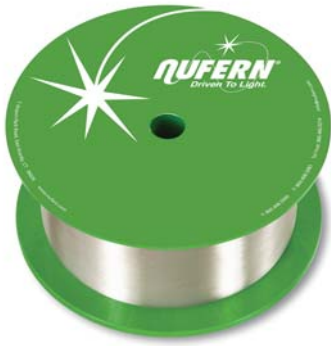


Eye Safe 9/125 Thulium-Doped Single-Mode Single Clad Fiber



This single clad, small core diameter fiber is designed specifically for use in core-pumped cavities. As the fiber is polarization maintaining, it is also suitable for applications requiring linearly polarized output.

Typical Applications

- Low to mid power CW and pulsed Eye Safe (~2 μm) lasers and amplifiers
- Eye Safe industrial and medical lasers
- Military and commercial LIDAR
- ~2 μm output TEM₀₀ fiber lasers for pumping solid state crystal lasers

Features & Benefits

- Small diameter Tm-doped core design — Robust single mode beam quality
- May be pumped with 793 nm diodes or resonantly pumped using a fiber laser
- High pump absorption — Short fiber length, efficient lasing in the ~2 μm window
- Core pumping facilitates access to shorter lasing wavelengths below 1900 nm

Optical Specifications

Operating Wavelength (nominal)	2000 nm
Peak Core Absorption @ 1180 nm	9 ± 2 dB/m
Peak Core Absorption @ 793 nm (nominal)	27 dB/m
Mode Field Diameter (nominal)	10.5 μm @ 2000 nm
Mode Cut-Off	1750 ± 100 nm
Birefringence (nominal)	2.5 × 10 ⁻⁴
Numerical Aperture (nominal)	0.15

PM-TSF-9/125

Operating Wavelength (nominal)	2000 nm
Peak Core Absorption @ 1180 nm	9 ± 2 dB/m
Peak Core Absorption @ 793 nm (nominal)	27 dB/m
Mode Field Diameter (nominal)	10.5 μm @ 2000 nm
Mode Cut-Off	1750 ± 100 nm
Birefringence (nominal)	2.5 × 10 ⁻⁴
Numerical Aperture (nominal)	0.15

SM-TSF-9/125

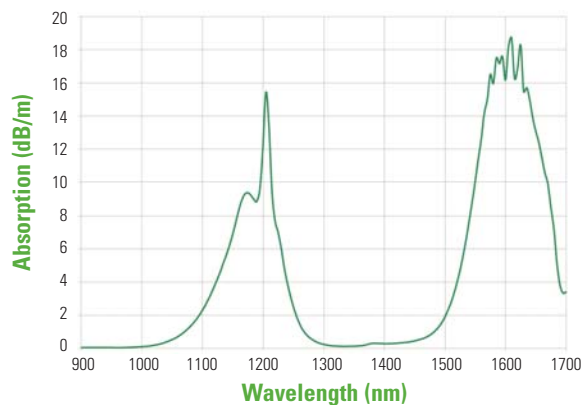
Operating Wavelength (nominal)	2000 nm
Peak Core Absorption @ 1180 nm	9 ± 2 dB/m
Peak Core Absorption @ 793 nm (nominal)	27 dB/m
Mode Field Diameter (nominal)	10.5 μm @ 2000 nm
Mode Cut-Off	1750 ± 100 nm
Birefringence (nominal)	2.5 × 10 ⁻⁴
Numerical Aperture (nominal)	0.15

Geometrical & Mechanical Specifications

Core Diameter (nominal)	9 μm
Clad Diameter	125 ± 1 μm
Coating Diameter	245 ± 15 μm
Core-Clad Concentricity	≤ 0.5 μm
Coating/Clad Concentricity	≤ 20 μm
Proof Test Level	≥ 100 kpsi (0.7 GN/m ²)
Coating Material	Dual Acrylate

Core Diameter (nominal)	9 μm
Clad Diameter	125 ± 1 μm
Coating Diameter	245 ± 15 μm
Core-Clad Concentricity	≤ 0.5 μm
Coating/Clad Concentricity	≤ 20 μm
Proof Test Level	≥ 100 kpsi (0.7 GN/m ²)
Coating Material	Dual Acrylate

Absorption for PM-TSF-9/125



RoHS



光技術をサポートする

株式会社オプトサイエンス

<http://www.optoscience.com>

東京本社 〒160-0014 東京都新宿区内藤町1番地 内藤町ビルディング
 TEL: 03 (3356) 1064 FAX: 03 (3356) 3466 E-mail: info@optoscience.com
 大阪支店 〒532-0011 大阪市淀川区西中島7-7-2 新大阪ビル西館
 TEL: 06 (6305) 2064 FAX: 06 (6305) 1030 E-mail: osk@optoscience.com
 名古屋営業所 〒450-0002 名古屋市中村区名駅2-37-21 東海ソフトビル
 TEL: 052 (569) 6064 FAX: 052 (569) 8064 E-mail: ngo@optoscience.com