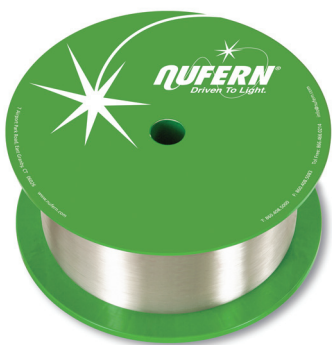




Eye Safe 25/250 Thulium-Doped Double Clad Fiber

Nufern Thulium-doped double clad fiber utilizes a glass composition specifically optimized for highly efficient operation around the important 2 μ m wavelength when pumped at ~793 nm. Slope efficiency > 50% has been achieved on fiber lengths less than 2m long, a higher efficiency than achievable with alternative eye-safe lasers designed around Er:Yb fibers at 1550 nm

Typical Applications

- CW and pulsed fiber lasers around 2 μ m
- An alternative to Er:Yb devices for eye-safe wavelengths
- Pump source for solid state and OPO lasers

Features & Benefits

- Optimized composition for 793nm pumping — Very high conversion efficiency
- High pump absorption — Short fiber length, efficient lasing in the ~2 μ m λ window

Optical Specifications

Operating Wavelength (nominal)	2000 nm
Cladding Absorption (nominal)	7.0 dB/m @ 793 nm
Cladding Absorption	1.2 $\pm$ 0.2 @ 1180 nm
Core Numerical Aperture (nominal)	0.22
Cladding Numerical Aperture (nominal)	0.46

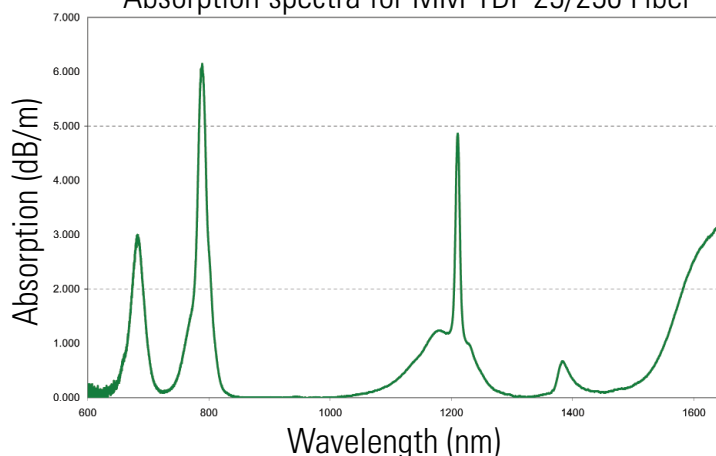
Geometrical & Mechanical Specifications

Core Diameter	25 $\pm$ 3 μ m
Clad Diameter	250 $\pm$ 15 μ m
Coating Diameter	400 $\pm$ 25 μ m
Outer Cladding Material	Low Index Polymer

MM-TDF-25/250

Note: The passive version of this fiber is also available.

Absorption spectra for MM-TDF-25/250 Fiber



RoHS

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Standard specifications and design parameters are listed above. Specifications are subject to change without notice. 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.

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