

# DCF-TM-10/130-14

## No-Pedestal single mode TM doped fiber



This single-mode thulium-doped fiber fully complies with telecom standards, making cleaving and splicing straightforward. Its no-pedestal design eliminates parasitic modes and residual multimode propagation. Featuring a high cladding absorption at 790 nm and an optimized core composition to enhance the cross-relaxation process, makes it ideally suited for high-power optical systems demanding superior performance.

### Features & Benefits

- Single-mode operation at 1940 nm.
- No-pedestal design prevents parasitic modes .
- Easy splicing with standard fusion recipes.
- Broad emission bandwidth.
- Optimized core enables efficient two-for-one cross-relaxation at 2  $\mu$ m.

### Specifications

#### Optical

Cladding Absorption @ 790nm (dB/m)	5 $\pm$ 1
Numerical Aperture - Cladding	Min 0.45
Numerical Aperture - Core	0.14 $\pm$ 0.01

#### Geometrical & Mechanical

Cladding diameter ( $\mu$ m)	128 $\pm$ 3
Coating Diameter ( $\mu$ m)	260 $\pm$ 15
Core Diameter ( $\mu$ m)	10 $\pm$ 1
Core/Cladding Concentricity Error ( $\mu$ m)	$\leq$ 1.5

### Applications

- Eye-safe CW and pulsed fiber lasers and amplifiers
- Medical
- LIDAR
- Telecom
- Spectroscopy
- Low and mid power
- Pump source of Ho-doped fibers

### Related Products

- DCF-UN-10/130-15 Matched double-clad passive fiber

#### Environmental

Proof Test (kpsi)	<=100
Storage Temperature ( $^{\circ}$ C)	-40 to +85