DCF-TM-25/400P-12

LMA Tm doped fiber

Our LMA 25/400 fiber with a pedestal structure operates across the 1.9 µm to 2.1 µm wavelength band. Its 25 µm core diameter helps reduce nonlinear effects, making it well-suited for high-power applications. Additionally, the 400 µm cladding enables efficient pump absorption for scalable power output.

Features & Benefits

- Octagonal cladding shape
- High pump and consistent absorption
- Proof tested to >100kpsi for ensuring long term reliability when coiling

Applications

- Medical
- Material processing
- LIDAR (defense and commercial)
- High power CW and pulsed applications
- Pump of Ho-doped fibers
- Research

Related Products

- DCF-UN-25/400-12
  Matched double-clad passive fiber

Specifications

Optical

Cladding Absorption @ 790nm (dB/m)	3.95 ± 0.55
Numerical Aperture - Cladding	Min 0.45
Numerical Aperture - Core	0.12 ± 0.02

Geometrical & Mechanical

Cladding diameter (µm)	400 ± 10
Cladding geometry	Octagonal
Coating Diameter (µm)	550 ± 15
Core Diameter (µm)	25 ± 1
Core Ovality (%)	≤ 8
Core/Cladding Concentricity Error (µm)	≤ 2
Proof Test (kpsi)	<= 100

Environmental

Storage Temperature (°C)	-40 to +85