

DCF-TM-10/130-18

Few-mode Tm doped fiber



The DCF-TM-10/130-18 demonstrates excellent batch-to-batch consistency, which is essential for high-volume fiber laser manufacturing. Additionally, its 130 μm cladding diameter complies with telecom standards, simplifying both cleaving and splicing processes.

Features & Benefits

- Broad emission
- Efficient conversion at 2 μm
- Meets the standard geometry simplifying cleaving and splicing
- No pedestal, splice
- Optimized core design enables two-for-one cross-relaxation for efficient conversion at 2 μm
- Low splice losses with Coractive's matched passive double-clad and single-clad fibers.

Applications

- Eye-safe fiber lasers and amplifiers
- Medical
- LIDAR
- Telecom Spectroscopy
- Low and mid power CW and pulsed applications

Related Products

- DCF-UN-8/125-18
Matched double-clad passive fiber
- SCF-UN-8/125-18
Matched single-clad passive fiber

Specifications

Optical

Cladding Absorption @ 790 nm (dB/m)	2.3 $\pm$ 0.5
Numerical Aperture - Cladding	Min 0.45
Numerical Aperture - Core	0.18 $\pm$ 0.02

Geometrical & Mechanical

Cladding diameter (μm)	128 $\pm$ 3
Cladding geometry	Octagonal
Coating Diameter (μm)	245 $\pm$ 10
Core Diameter (μm)	10 $\pm$ 1
Core Ovality (%)	$\leq$ 9
Core/Cladding Concentricity Error (μm)	$\leq$ 1.5
Proof Test (kpsi)	$\geq$ 100

Environmental

Storage Temperature (C °)	-40 to +85
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