

DCF-EY-10/128-G2-PM

Polarization-maintaining Erbium/Ytterbium co-doped fiber



This Erbium/Ytterbium co-doped fiber combines an optimized core composition with highly efficient energy transfer, significantly lowering pump power requirements. Its polarization-maintaining design delivers high efficiency and excellent beam quality, ensuring stable and reliable operation. Operating within the eye-safe wavelength range, this fiber is ideally suited for demanding applications.

Features & Benefits

- Single-mode operation – provides excellent beam quality
- Highly efficient energy transfer – reduces pump power requirements
- Low splice losses with industry standard PM1550 fibers
- Optimized Er/Yb core composition – reduces 1 μm parasitic emission

Applications

- Ultrafast 1.5 μm fiber lasers
- Eye-safe fiber lasers and amplifiers
- LiDAR
- Scientific

Related Products

- DCF-UN-8/125-14-PM
Matched double-clad passive fiber
- SCF-UN-8/125-14-PM
Matched single-clad passive fiber

Specifications

Optical

Birefringence (x10E-04)	≥ 1.4
Cladding Absorption @ 915 nm (dB/m)	2 ± 0.5
Core Absorption @ 1535 nm (dB/m)	80 ± 15
Numerical Aperture - Cladding	Min 0.45
Numerical Aperture - Core	0.2 ± 0.02

Geometrical & Mechanical

Cladding diameter (μm)	128 ± 3
Cladding geometry	Circ.
Coating Diameter (μm)	260 ± 20
Core Diameter (μm)	10 ± 2
Core/Cladding Concentricity Error (μm)	≤ 2
Proof Test (kpsi)	≤ 100

Environmental

Storage Temperature ($^{\circ}\text{C}$)	-40 to +85
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DCF-EY-10/128-G2-PM_R2

ISO 9001:2015 certified quality system - RoHS and REACH compliants.

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