

DCF-EY-10/128-G2-PM

Polarization-maintaining Erbium/Ytterbium co-doped fiber



This Erbium/Ytterbium co-doped fiber offers a high doping concentration and efficient energy transfer that reduce the pump power required. As this polarization-maintaining fiber shows high efficiency and excellent beam quality, it is ideal for the design of low-power fiber lasers and amplifiers used in various markets such as LiDAR.

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

Cladding Absorption @ 915 nm (dB/m)	2.0 \pm 0.5
Core Absorption @ 1535 nm – Nominal (dB/m)	85 \pm 25
Numerical Aperture – Core	0.20 \pm 0.02
Numerical Aperture – Cladding	> 0.45
Birefringence	\geq 1.4E-04

Geometrical & Mechanical

Core Diameter (μm)	10 \pm 2
Cladding Diameter (μm)	128 \pm 3
Core/Cladding Concentricity Error (μm)	< 2.0
Cladding Geometry	Round
Coating Diameter (μm)	260 \pm 20
Proof Test (kpsi)	\geq 50