

DCF-EY-6/128-PM

Polarization-maintaining erbium/ytterbium co-doped fiber



This PM Erbium/Ytterbium co-doped fiber offers a high doping concentration and efficient energy transfer for operation in the 1.5 μm region ensuring minimum fiber length and minimum pump power. As this polarization maintaining fiber allows single-mode operation and provides 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
- [DCF-EY-6/128](#)
Non-PM version

Specifications

Optical

Cladding Absorption @ 915 nm (dB/m)	0.70 \pm 0.15
Core Absorption @ 1535 nm - Nominal (dB/m)	60 \pm 10
Numerical Aperture - Core	0.2 \pm 0.02
Numerical Aperture - Cladding	> 0.45
Cutoff Wavelength (nm)	1400 \pm 80
Mode Field Diameter @ 1550 nm (μm)	6.5 \pm 0.8
Birefringence	\geq 1.2E-04

Geometrical & Mechanical

Core Diameter (μm)	5.5 \pm 0.5
Cladding Diameter (μm)	128 \pm 3
Core/Cladding Concentricity Error (μm)	< 1.0
Cladding Geometry	Round
Coating Diameter (μm)	260 \pm 20
Proof Test (kpsi)	\geq 100

ISO 9001:2015 certified quality system | RoHS and REACH compliant.
All specifications are subject to change without notice. Reference: 101-10-0690.R1