DCF-EY-10/128-G2-PM-SNR

Polarization-maintaining erbium/ytterbium co-doped fiber

This Erbium/Ytterbium co-doped fiber is designed to provide high OSNR across the entire C-band, including shorter wavelengths. Its optimized core composition and efficient energy transfer significantly reduce pump power requirements while ensuring stable and consistent amplification. The polarization-maintaining design ensures high efficiency and excellent beam quality, supporting reliable signal quality in demanding optical systems, while operating in the eye-safe wavelength range.

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 to target high OSNR across the entire C-band, including shorter wavelengths.

Applications

- Ultrafast 1.5 µm fiber lasers
- Eye-safe 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)	60 ± 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 (°C)	-40 to +85