

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

Polarization-maintaining Erbium/Ytterbium co-doped fiber



The ASE-Free version of our standard double-clad erbium/ytterbium co-doped polarization-maintaining fiber is specifically engineered to minimize ASE around 1 μm , effectively suppressing parasitic ytterbium emission and enabling higher output power with stable amplification. Its optimized glass composition and efficient energy transfer maximize pump utilization while reducing pump power requirements. Combined with a polarization-maintaining design, this fiber delivers high efficiency, excellent beam quality, and outstanding power scalability for eye-safe, high-power fiber laser and amplifier 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
- Very low amplified spontaneous emission (ASE) around 1 μm

Specifications

Optical

Birefringence (x10E-04)	≥ 1.4
Cladding Absorption @ 915 nm (dB/m)	2.5 ± 0.5
Core Absorption @ 1535 nm (dB/m)	100 ± 20
Numerical Aperture - Cladding	Min 0.45
Numerical Aperture - Core	0.2 ± 0.02

Applications

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

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

Related Products

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

Environmental

Storage Temperature ($^{\circ}\text{C}$)	-40 to +85
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DCF-EY-10/128-G2-PM-ASEF_R1

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

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