



DCF-EY-11/128P-SMF-HT

Erbium/Ytterbium co-doped double-clad fiber

This single mode Erbium/Ytterbium co-doped fiber is specially designed for applications in the 1.5 μm , where great optical efficiency and signal-to-noise ratio are required. With high absorption and optimal beam quality, this product is an excellent choice for the design of high-power optical amplifiers used in the fields of LIDAR (automotive or industrial) and space communications.

Features & Benefits

- Strictly single mode operation at 1.5 μm range
- High absorption – minimizes fiber length and reduces nonlinearities
- High optical efficiency
- Optimized Er/Yb core– high OSNR at 1.5 μm and reduced 1 μm emission

Applications

- High-power 1.5 μm pulsed and CW amplifiers
- LIDAR
- Space communications

Related Products

- DCF-UN-10/125-10
Matched passive double-clad fiber

Specifications

Optical

Cladding Absorption @ 915 nm (dB/m)	2.9 \pm 0.6
Core Absorption @ 1535 nm (dB/m)	65 \pm 25
Cutoff Wavelength (nm)	1400 \pm 110
MFD @ 1550nm (μm)	10.8 \pm 1.2
Numerical Aperture - Cladding	Min 0.45
Numerical Aperture - Core	Typ. 0.12

Geometrical & Mechanical

Cladding diameter (μm)	128 \pm 3
Cladding geometry	Octagonal
Coating Diameter (μm)	260 \pm 15
Core/Cladding Concentricity Error (μm)	\leq 1
Proof Test (kpsi)	\leq 100

Environmental

Storage Temperature ($^{\circ}\text{C}$)	-40 to +100
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