

DCF-EY-10/128P

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

Background Loss @1100 nm (dB/km)	≤ 50
Cladding Absorption @ 915 nm (dB/m)	2.9 ± 0.6
Core Absorption @ 1535 nm (dB/m)	65 ± 25
Cutoff Wavelength (nm)	1250 ± 150
MFD @ 1550nm (μm)	12.5 ± 1

Geometrical & Mechanical

Cladding diameter (μm)	128 ± 3
Coating Diameter (μm)	260 ± 15
Core Diameter (μm)	10 ± 1
Core/Cladding Concentricity Error (μm)	≤ 1

DCF-EY-10/128P_R0

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

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