DCF-EY-10/128H

Erbium/Ytterbium co-doped double-clad fiber

This Erbium/Ytterbium co-doped fiber offers a high doping concentration and efficient energy transfer for operation in the 1.5 µm region. With its high absorption, this product is an excellent choice for the design of high-power optical amplifiers (>5 W) used in various markets such as CATV in telecom or low-power LiDAR.

Features & Benefits

- High doping concentration – provides highly efficient energy transfer, minimizing pump power requirements
- High absorption – minimizes fiber length and reduces nonlinearities
- Optimized Er/Yb core composition – reduces 1 µm parasitic emission

Applications

- High-power telecom amplifiers
- Low-power fiber lasers and optical amplifiers
- Sensing: LiDAR and spectroscopy

Related Products

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

Specifications

Optical

Cladding Absorption @ 915 nm (dB/m)	2.4 ± 0.4
Core Absorption @ 1535 nm – Nominal (dB/m)	85 ± 25
Numerical Aperture – Core	0.20 ± 0.02
Numerical Aperture – Cladding	> 45
Background Loss @ 1200 nm (dB/km)	< 150

Geometrical & Mechanical

Core Diameter (µm)	10 ± 1
Cladding Diameter (µm)	128 ± 3
Core/Cladding Concentricity Error (µm)	< 1.0
Cladding Geometry	Octogonal
Coating Diameter (µm)	260 ± 15
Proof Test (kpsi)	≥ 100

Environmental

Operating Humidity (%)	5 - 85
Operating Temperature (C°)	0 - 70
Storage Humidity (%)	5 - 85
Storage Temperature (C°)	-40 - 85

ISO 9001:2015 certified quality system | RoHS and REACH compliant.
All specifications are subject to change without notice. Reference: 101-10-0840.R1

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