

DCF-EY-10/128H-G2

Erbium/Ytterbium co-doped double-clad fiber



Our new generation of Erbium/Ytterbium co-doped fiber offers high absorption and efficient energy transfer for high performance operation in the 1.5 μm region. With great optical efficiency and low noise levels, this product is an excellent choice for the design of high-power optical amplifiers (>5 W) used in various markets such as CATV in telecommunications or automotive and industrial LiDAR systems.

Features & Benefits

- High optical efficiency, minimizing pump power requirements
- High absorption – minimizes fiber length and reduces nonlinearities
- Optimized Er/Yb core composition – high OSNR at 1.5 μm and reduced 1 μm parasitic emission

Applications

- High-power telecom amplifiers
- LiDAR and sensing
- 1.5 μm fiber lasers and optical amplifiers

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 \pm 0.4
Core Absorption @ 1535 nm - Nominal (dB/m)	85 \pm 25
Numerical Aperture - Core	0.20 \pm 0.02
Numerical Aperture - Cladding	> 45
Background Loss @ 1200 nm (dB/km)	< 50

Geometrical & Mechanical

Core Diameter (μm)	10 \pm 1
Cladding Diameter (μm)	128 \pm 3
Core/Cladding Concentricity Error (μm)	< 1.0
Cladding Geometry	Octagonal
Coating Diameter (μm)	260 \pm 15
Proof Test (kpsi)	\geq 100

Environmental

Operating Humidity (%)	5 - 85
Operating Temperature (C $^{\circ}$)	0 - 70
Storage Humidity (%)	5 - 85
Storage Temperature (C $^{\circ}$)	-40 - 85

ISO 9001:2015 certified quality system | RoHS and REACH compliant.
All specifications are subject to change without notice. Reference: 101-10-0998.R0