DCF-EY-8/105/125-14/22-HTA

All-Glass Erbium/Ytterbium co-doped double-clad fiber

This Erbium/Ytterbium co-doped fiber offers high absorption to minimize fiber length required and non-linear effects. Its core composition is expertly designed for efficient pump energy conversion in 1.5 µm fiber lasers and amplifiers. Featuring an all-glass design and a high-temperature resistant coating, this fiber is made for the rigorous environmental requirements of the automotive industry and other demanding applications.

Features & Benefits

- High-temperature resistant coating
- All-glass second cladding design - free of low index polymer
- High absorption - shorter fiber length and reduced non linear effects
- High energy conversion
- Optimized Er/Yb core composition – reduces 1 µm parasitic emission

Applications

- Eye-safe fiber lasers and amplifiers for LIDAR
- Space communications
- High-power telecom amplifiers
- Industrial and harsh environment laser sensing

Related Products

- DCF-UN-8/105/125-14/22-HTA

Matched all-glass double-clad passive fiber

- SCF-UN-8/125-14

Matched single-clad passive fiber

Specifications

Optical

Cladding Absorption @ 915 nm (dB/m)	4 ± 1
Core Absorption @ 1535 nm (dB/m)	75 ± 20
Cutoff Wavelength (nm)	1400 ± 110
MFD @ 1550nm (µm)	9.4 ± 0.9
Numerical Aperture - Cladding	Typ. 0.22-0.24
Numerical Aperture - Core	Typ. 0.14

Geometrical & Mechanical

Cladding diameter (µm)	105 ± 5
Cladding geometry	Oct.
Coating Diameter (µm)	245 ± 15
Core/Cladding Concentricity Error (µm)	<= 0.8
Outer Cladding Diameter (µm)	125 ± 2
Proof Test (kpsi)	>= 100

Environmental

Storage Temperature (°C)	-40 +150