DCF-EY-25/250P-ASEF

Erbium/Ytterbium co-doped double-clad fiber

Coractive's new Erbium/Ytterbium co-doped fiber designed for EYDFA applications requiring high output power, high efficiency and low 1 µm parasitic ASE emission. Featuring a large mode area, high doping concentration and high efficiency, DCF-EY-25/250P-ASEF is the ideal solution for high power lasers at 1.5 µm, eye-safe fiber lasers and amplifiers, LiDAR and spectroscopy.

Features & Benefits

- High absorption and power conversion efficiency (PCE)
- Large mode area and high output power
- Excellent suppression of 1 µm ASE emission

Applications

- High power lasers at 1.5 µm
- Optical communications
- Sensing and spectroscopy
- LiDAR

Specifications

Optical

Background Loss @1200 nm (dB/km)	<= 20
Cladding Absorption @ 915 nm (dB/m)	2.75 ± 0.45
Core Absorption @ 1535 nm (dB/m)	100 ± 15
Numerical Aperture - Cladding	Min 0.45
Numerical Aperture - Core	Typ. 0.09

Geometrical & Mechanical

Cladding diameter (µm)	250 ± 5
Cladding geometry	Oct.
Coating Diameter (µm)	375 ± 20
Core Diameter (µm)	25 ± 2
Core/Cladding Concentricity Error (µm)	<= 2
Proof Test (kpsi)	>= 100

Environmental

Storage Temperature (°C)	-40 to +85