DCF-EY-16/250P

Erbium/Ytterbium co-doped double-clad fiber

As LiDAR applications head towards longer detection distances, higher power is required. The DCF-EY-16/250P features a large mode area, high doping concentration and high slope efficiency, which makes it ideal for the design of high-power/peak power fiber lasers and amplifiers.

Features & Benefits

- High doping concentration – provides highly efficient energy transfer, minimizing pump power requirements
- Large mode area and high absorption – minimize fiber length and reduce nonlinearities
- High slope efficiency
- Optimized Er/Yb core composition – reduces 1 µm parasitic emission

Applications

- High-power fiber lasers and amplifiers @ 1.5 µm
- Sensing: LiDAR and spectroscopy
- Defense

Specifications

Optical

Cladding Absorption @ 915 nm (dB/m)	1.75 ± 0.25
Core Absorption @ 1535 nm (dB/m)	65 ± 15
Numerical Aperture - Cladding	Min 0.45
Numerical Aperture - Core	0.11 ± 0.01

Geometrical & Mechanical

Cladding diameter (µm)	250 ± 5
Cladding geometry	Oct.
Coating Diameter (µm)	375 ± 20
Core Diameter (µm)	16 ± 1
Core Ovality (%)	<= 8
Core/Cladding Concentricity Error (µm)	<= 2.5
Proof Test (kpsi)	>= 100

Environmental

Storage Temperature (°C)	-40 to +85