

# DCF-EY-6/128-G2

## 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  $\mu\text{m}$  region. As this fiber allows single-mode operation and provides excellent beam quality, it is ideal for the design of low-power optical amplifiers used in various markets such as CATV in telecom or low-power LiDAR.

### Features & Benefits

- Single-mode operation – provides excellent beam quality
- High doping concentration – provides highly efficient energy transfer, minimizing pump power requirements
- Optimized Er/Yb core composition – reduces 1  $\mu\text{m}$  parasitic emission

### Specifications

#### Optical

|                                     |                |
|-------------------------------------|----------------|
| Background Loss @1200 nm (dB/km)    | $\leq 30$      |
| Cladding Absorption @ 915 nm (dB/m) | $0.9 \pm 0.15$ |
| Core Absorption @ 1535 nm (dB/m)    | $60 \pm 10$    |
| Cutoff Wavelength (nm)              | $1400 \pm 80$  |
| MFD @ 1550nm ( $\mu\text{m}$ )      | $6.5 \pm 0.8$  |
| Numerical Aperture - Cladding       | Min 0.46       |
| Numerical Aperture - Core           | Typ. 0.20      |

### Applications

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

#### Geometrical & Mechanical

|                                                     |              |
|-----------------------------------------------------|--------------|
| Cladding diameter ( $\mu\text{m}$ )                 | $128 \pm 3$  |
| Cladding geometry                                   | Oct.         |
| Coating Diameter ( $\mu\text{m}$ )                  | $260 \pm 20$ |
| Core/Cladding Concentricity Error ( $\mu\text{m}$ ) | $\leq 1$     |
| Proof Test (kpsi)                                   | $\geq 100$   |

### Related Products

- DCF-UN-8/125-14
- SCF-UN-8/125-14

#### Environmental

|                                            |            |
|--------------------------------------------|------------|
| Storage Temperature ( $^{\circ}\text{C}$ ) | -40 to +85 |
|--------------------------------------------|------------|

DCF-EY-6/128-G2\_R0

ISO 9001:2015 certified quality system - RoHS and REACH compliants.

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