

DCF-YB-10/128E

Yb-doped fiber for pulsed lasers



This fiber shows excellent batch-to-batch consistency, which is essential for high-volume manufacturing of fiber lasers. Moreover, it shows excellent photodarkening resistance, ensuring long-term reliability

Features & Benefits

- High effective pump absorption – length reduction and nonlinear effect mitigation
- Low photodarkening – ensures long term stability
- Excellent beam quality – ideal for efficient fiber laser applications
- Batch-to-batch consistency for highvolume production

Applications

- Pulsed lasers & amplifiers
- Pre-amplifier section of multi-stage highpower amplifiers
- Lasers for marking

Related Products

- DCF-UN-10/125-080
Matched double-clad fiber
- SCF-UN-10/125-080
Matched single-clad fiber

Specifications

Optical

Background Loss @1100 nm (dB/km)	≤ 50
Background Loss @1200 nm (dB/km)	≤ 50
Cladding Absorption @ 915 nm (dB/m)	1.35 ± 0.15
Numerical Aperture - Cladding	Min 0.46
Numerical Aperture - Core	0.085 ± 0.005

Geometrical & Mechanical

Cladding diameter (μm)	128 ± 3
Cladding geometry	Oct.
Coating Diameter (μm)	260 ± 20
Core Diameter (μm)	11 ± 0.5
Core/Cladding Concentricity Error (μm)	≤ 0.7
Proof Test (kpsi)	≥ 100

Environmental

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