

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 high-volume production

Applications

- Pulsed lasers & amplifiers
- Pre-amplifier section of multi-stage high-power 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

Cladding Absorption @ 915 nm (dB/m)	1.35 ± 0.15
Cladding Absorption @ 975 nm – Nominal (dB/m)	5.4
Numerical Aperture – Core	0.085 ± 0.005
Numerical Aperture – Cladding	> 0.45

Geometrical & Mechanical

Core Diameter (µm)	11 ± 0.5
Cladding Diameter (µm)	128 ± 3
Core/Cladding Concentricity Error (µm)	< 0.70
Cladding Geometry	Octagonal
Coating Diameter (µm)	260 ± 20
Proof Test (kpsi)	≥ 100

ISO 9001:2015 certified quality system | RoHS and REACH compliant.
All specifications are subject to change without notice. Reference: 101-10-0680.R1