

DCF-YB-20/128E

Yb-doped fiber for pulsed lasers



The DCF-YB-20/128E shows excellent photodarkening resistance performance ensuring high reliability and long-term stability. This fiber shows high absorption and excellent beam quality and is ideal for high-power pulsed fiber lasers and amplifiers used for industrial applications.

Features & Benefits

- High effective pump absorption for length reduction and nonlinear effect mitigation
- **Low photodarkening at high power** - ensures long-term stability
- Batch-to-batch consistency for high-volume production

Applications

- Pulsed lasers & amplifiers
- Power amplification section of multi-stage high-power amplifiers
- Lasers for marking & engraving

Related Products

- [DCF-UN-10/125-080](#)
Matched double-clad fiber for pump combiner
- [DCF-UN-20/125M](#)
Matched MFD double-clad fiber
- [DCF-UN-20/125-100](#)
Matched double-clad fiber for output isolator
- [SCF-UN-20/125-100](#)
Matched single-clad fiber

Specifications

Optical

Cladding Absorption @ 915 nm (dB/m)	3.0 ± 0.3
Cladding Absorption @ 975 nm - Nominal (dB/m)	12
Numerical Aperture - Core	0.080 ± 0.005
Numerical Aperture - Cladding	> 0.45

Geometrical & Mechanical

Core Diameter (µm)	20 ± 1
Cladding Diameter (µm)	128 ± 3
Core/Cladding Concentricity Error (µm)	< 1.0
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: 101-10-0629.R1