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 highvolume production

Applications

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

Related Products

- DCF-UN-20/125-080 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	Octogonal
Coating Diameter (µm)	260 ± 20
Proof Test (kpsi)	≥ 100

Environmental

Operating Non-Condensing Humidity (%)	5 - 85
Operating Temperature (C°)	0 - 70
Storage Non-Condensing Humidity (%)	5 - 85
Storage Temperature (C°)	-40 - 85

ISO 9001:2015 certified quality system | RoHS and REACH compliant. All specifications are subject to change without notice.

Reference: 101-10-0629.R1 2021.07.29