

DCF-YB-30/250EH

Yb-doped fiber for pulsed lasers



This Yb fiber shows excellent photodarkening resistance performance ensuring high reliability and long-term stability. This fiber shows high absorption as well as excellent beam quality and is ideal for high-power pulsed fiber lasers and amplifiers used for industrial applications.

Features & Benefits

- High effective pump absorption – length reduction and nonlinear effect mitigation
- **Low photodarkening** at high power – ensures long-term stability
- Higher energy saturation threshold – increases energy per pulse

Applications

- Pulsed lasers & amplifiers
- Amplifier section of multi-stage high-power amplifiers
- Lasers for marking
- Low energy laser cleaning

Related Products

- [DCF-UN-30/250-070](#)
Matched double-clad fiber
- [SCF-UN-30/250-070](#)
Matched single-clad fiber

Specifications

Optical

Cladding Absorption @ 915 nm (dB/m)	2.1 ± 0.3
Cladding Absorption @ 975 nm - Nominal (dB/m)	6.8
Numerical Aperture - Core	0.061 ± 0.002
Numerical Aperture - Cladding	> 0.45

Geometrical & Mechanical

Core Diameter (µm)	30 ± 2
Cladding Diameter (µm)	250 ± 5
Core/Cladding Concentricity Error (µm)	< 1.5
Cladding Geometry	Octagonal
Coating Diameter (µm)	375 ± 20
Proof Test (kpsi)	≥ 100

ISO 9001:2015 certified quality system | RoHS and REACH compliant.
All specifications are subject to change without notice. Reference: 101-10-0856.R1