



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)	2.2 ± 0.3
Numerical Aperture - Cladding	Min. 0.45
Numerical Aperture - Core	0.061 ± 0.002

Geometrical & Mechanical

Cladding diameter (µm)	250 ± 5
Cladding geometry	Oct.
Coating Diameter (µm)	375 ± 20
Core Diameter (µm)	30 ± 2
Core/Cladding Concentricity Error (µm)	<= 1.5

Environmental

Proof Test (kpsi)	<=100
Storage Temperature (°C)	-40 to +85