

DCF-YB-20/125E-PM

Polarization-maintaining ytterbium-doped fiber



This double clad fiber features high absorption and low photodarkening. It shows excellent beam quality which is required for various material processing applications. This fiber is also ideal for the design of a wide range of pulsed fiber lasers and amplifiers.

Features & Benefits

- High effective pump absorption – allows fiber length reduction and nonlinear effect mitigation
- Very low photodarkening at high power – ensures stable long-term operation
- High birefringence – minimizes stress
- Excellent beam quality – efficient fiber laser applications

Specifications

Optical

Birefringence (x10E-04)	≥ 1.4
Cladding Absorption @ 915 nm (dB/m)	4.15 ± 0.45
Numerical Aperture - Cladding	Min 0.45
Numerical Aperture - Core	0.075 ± 0.005

Applications

- Ultrafast fiber lasers
- Pulsed fiber lasers & amplifiers
- Material processing
- Second Harmonic Generation
- Scientific

Geometrical & Mechanical

Cladding diameter (μm)	125 ± 2
Cladding geometry	Circ.
Coating Diameter (μm)	245 ± 15
Core Diameter (μm)	20 ± 1
Core Ovality (%)	≤ 15
Core/Cladding Concentricity Error (μm)	≤ 1
Proof Test (kpsi)	≥ 100

Related Products

- DCF-UN-20/125-08-PM
Matched double-clad fiber

Environmental

Storage Temperature ($^{\circ}\text{C}$)	-40 to +85
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DCF-YB-20/125E-PM_R1

ISO 9001:2015 certified quality system - RoHS and REACH compliants.

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