

# 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

## Applications

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

## Specifications

### Optical

Cladding Absorption @ 915 nm (dB/m)	4.15 ± 0.45
Cladding Absorption @ 975 nm - Nominal (dB/m)	16.6
Numerical Aperture - Core	0.075 ± 0.005
Numerical Aperture - Cladding	> 0.45
Birefringence	≥ 1.4E-04

### Geometrical & Mechanical

Core Diameter (µm)	20 ± 1
Cladding Diameter (µm)	125 ± 2
Core/Cladding Concentricity Error (µm)	< 1.0
Cladding Geometry	Round
Coating Diameter (µm)	245 ± 15
Proof Test (kpsi)	≥ 100

ISO 9001:2015 certified quality system | RoHS and REACH compliant.  
All specifications are subject to change without notice. Reference: 101-10-0910.R1