DCF-YB-10/125E-PM

Polarization-maintaining ytterbium-doped fiber

The DCF-YB-10/125E-PM Yb double-clad fiber has been designed to address the ultrafast laser market where high birefringence and high pump absorption are required. This fiber also shows excellent beam quality and batch-to-batch consistency, which is ideal for high-volume production of pulsed fiber lasers for different applications.

Features & Benefits

- Highly 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

Related Products

- DCF-UN-10/125-08-PM
  Matched PM passive double-clad fiber
- DCF-YB-10/128E
  Non-PM Yb-doped fiber

Specifications

Optical

Cladding Absorption @ 915 nm (dB/m)	1.6 ± 0.2
Cladding Absorption @ 975 nm – Nominal (dB/m)	6.4
Numerical Aperture – Core	0.075 ± 0.005
Numerical Aperture – Cladding	> 0.45
Birefringence	≥ 3.0E-04

Geometrical & Mechanical

Core Diameter (µm)	11.0 ± 0.5
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: 101-10-0900.R1

2700 Jean-Perrin, suite 121, Quebec QC G2C 1S9 Canada | sales@coractive.com | + 1 418 845-2466