

Yb-DCOF-15/125-08-2.7-PM

Yb-doped PM fiber



The Yb-DCOF-15/125-08-2.7-PM fiber is a PM, double clad fiber, featuring a 15 μm core diameter and high absorption, with a low photodarkening core glass host ensuring long term performances. Its near diffraction limited output design makes it the perfect choice for pulsed fiber lasers and amplifiers requiring superior beam quality.

Features & Benefits

- Near diffraction limited output design
- High birefringence
- High absorption for short amplifier length, high energy per pulse
- Low photodarkening

Applications

- Pulsed fiber amplifiers and lasers
- Frequency Conversion
- Material Processing

Specifications

Optical

Cladding Absorption @ 915 nm (dB/m)	2.7 \pm 0.3
Cladding Absorption @ 975 nm - Nominal (dB/m)	10
Numerical Aperture - Core	0.08 \pm 0.01
Numerical Aperture - Cladding	> 0.47
Birefringence	$\geq 1.8 \times 10^{-4}$

Geometrical & Mechanical

Optical Cladding	Double
Core Diameter (μm)	15 \pm 1
Silica Cladding Diameter (μm)	125 \pm 1
Coating Diameter (μm)	245 \pm 5
Cladding Geometry	Round
Core/Cladding Concentricity Error (μm)	< 0.5
Screen Proof Tested (kpsi)	≥ 100
Confined Core	No
Depressed Cladding	No