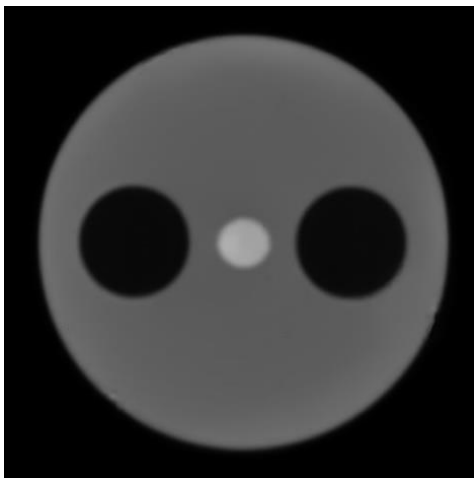


Yb-DCOF-15/125-08-2.7-PM

PM, Yb-Doped Large Mode Area Fiber

The Yb-DCOF-15/125-08-2.1-PM fiber is a PM, double clad fiber, featuring a 15 μm core diameter, with a low photodarkening core glass host allowing long term efficiency of performances. Its near-diffraction-limited output design makes it the perfect choice for laser applications and pulsed fiber lasers and amplifiers requiring superior beam quality. **This fiber also features a very high absorption level - 2.7 dB/m at 915 nm.**



Features

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

Typical Applications

- Pulsed fiber amplifiers and lasers
- Ultra-short pulse fiber amplifiers
- Frequency conversion
- Material processing

SPECIFICATIONS

Optical Properties	
Core NA	0.08 \pm 0.01
Cladding NA	> 0.47
Pump guide absorption @ 915 nm	2.7 \pm 0.3 dB/m
Nominal pump guide absorption @ 975 nm	10 dB/m
Birefringence	$\geq 1.8 \times 10^{-4}$
Physical Properties	
Optical Cladding	Double
Core diameter	15.0 \pm 1.0 μm
Silica cladding diameter	125.0 \pm 1.0 μm
Coating diameter	245.0 \pm 5.0 μm
Cladding geometry	Round
Core/clad concentricity error	< 0.5 μm
Screen proof tested	100 kpsi
Confined core	No
Depressed cladding	No

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

PM, Yb-Doped Large Mode Area Fiber

A low-absorption version of this fiber is also available: the Yb-DCOF-15/125-08-2.1-PM.

SPECIFICATIONS COMPARISON TABLE

Optical Properties	Yb-DCOF-15/125-08-2.1-PM	Yb-DCOF-15/125-08-2.7-PM
Core NA	0.08 ± 0.01	
Cladding NA	> 0.47	
Pump guide absorption @ 915 nm	2.1 ± 0.2 dB/m	2.7 ± 0.3 dB/m
Nominal pump guide absorption @ 975 nm	8 dB/m	10 dB/m
Birefringence	≥ 1.8 x 10 ⁻⁴	
Physical Properties		
Optical Cladding	Double	
Core diameter	15.0 ± 1.0 μm	
Silica cladding diameter	125.0 ± 1.0 μm	
Coating diameter	245.0 ± 5.0 μm	
Cladding geometry	Round	
Core/clad concentricity error	< 0.5 μm	
Screen proof tested	100 kpsi	
Confined core	No	
Depressed cladding	No	

R&D CONTRACTS – PROTOTYPING – PREPRODUCTION
SHORT-RUN PRODUCTION – TECHNOLOGY TRANSFERS