



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.



OPTICAL PROPERTIES	
Core NA	0.08 ± 0.01
Cladding NA	> 0.47
Pump guide absorption @ 915 nm	$2.7 \pm 0.3 \text{ dB/m}$
Nominal pump guide absorption @ 975 nm	10 dB/m
Birefringence	$\geq 1.8 \times 10^{-4}$
PHYSICAL PROPERTIES	
Optical Cladding	Double
Core diameter	$15 \pm 1 \mu\text{m}$
Silica cladding diameter	$125 \pm 1 \mu\text{m}$
Coating diameter	$245 \pm 5 \mu\text{m}$
Cladding geometry	Round
Core/clad concentricity error	$< 0.5 \mu\text{m}$
Screen proof tested	100 kpsi
Confined core	No
Depressed cladding	No

FEATURES

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

TYPICAL APPLICATIONS

- Pulsed fiber amplifiers and lasers
- Frequency conversion
- Material processing