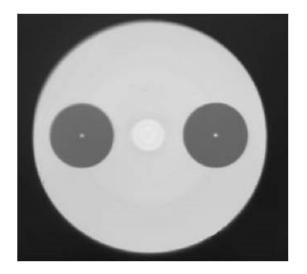


## Yb-MCOF-35/250-05-2.0-PM

### PM Yb-Doped Large Mode Area Fiber

The Yb-MCOF-35/250-PM fibers are designed for M<sup>2</sup> lower than 1.15 making it the perfect choice for applications requiring superior beam quality. Our fiber design features a confined core for selective gain amplification and multi-layer cladding for superior suppression of higher order modes.



#### **FEATURES**

- Designed for output M<sup>2</sup> lower than 1.15
- Large core diameter of 35 μm
- Low photodarkening
- High birefringence
- Confined core for selective gain amplification
- Increased differential bending losses
- Designed to amplify narrow linewidth seed lasers operated in pulsed mode

#### **TYPICAL APPLICATIONS**

- Material processing
- Frequency conversion
- Biophotonics
- · Range finding

OPTICAL PROPERTIES				
Core NA	0.05 ± 0.01			
Cladding NA	> 0.47			
Pump guide absorption @ 915 nm	2.0 ± 0.4 dB/m			
Nominal pump guide absorption @ 975 nm	8.0 dB/m			
Birefringence	≥ 1.4 x 10 <sup>-4</sup>			
Beam quality factor M <sup>2</sup>	< 1.15			
PHYSICAL PROPERTIES				
Optical cladding	Multi			
Core diameter	35.0 ± 3.0 μm			
Silica cladding diameter	250.0 ± 5.0 μm			
Coating diameter	390.0 ± 20.0 μm			
Cladding geometry	Round			
Screen proof tested	≥ 100 kpsi			
Recommended coiling diameter	≥ 25 cm			
Confined core	Yes			
Depressed cladding	Yes			



# Yb-MCOF-35/250-05-2.0-PM

## PM Yb-Doped Large Mode Area Fiber

3 versions of this fiber are available. Please refer to the table below for specifications comparison.

OPTICAL PROPERTIES	Yb-MCOF-35/250- 07-0.9-PM	Yb-MCOF-35/250- 07-2.5-PM	Yb-MCOF-35/250- 05-2.0-PM
Core NA	0.07 ± 0.01		0.05 ± 0.01
Cladding NA	> 0.47		
Pump guide absorption @ 915 nm	0.9 ± 0.1 dB/m	2.5 ± 0.5 dB/m	2.0 ± 0.4 dB/m
Nominal pump guide absorption @ 975 nm	4.0 dB/m	10.0 dB/m	8.0 dB/m
Birefringence	≥ 1.4 x 10 <sup>-4</sup>		
Beam quality factor M <sup>2</sup>	< 1.15		
PHYSICAL PROPERTIES	Yb-MCOF-35/250- 07-0.9-PM	Yb-MCOF-35/250- 07-2.5-PM	Yb-MCOF-35/250- 05-2.0-PM
Optical cladding	Multi		
Core diameter	35.0 ± 3.0 μm		
Silica cladding diameter	250.0 ± 5.0 μm		
Coating diameter	390.0 ± 20.0 μm		
Cladding geometry	Round		
Screen proof tested	≥ 100 kpsi		
Recommended coiling diameter	≥ 12 cm	≥ 14 cm	≥ 25 cm
Confined core	Yes		
Depressed cladding	Yes		