

17/200 Erbium/Ytterbium Co-Doped Double-Clad Fiber



Nufern's proprietary rare earth doping technology is used to deliver Er:Yb co-doped fibers with industry leading power conversion efficiency. Nufern's PM-EYDF-17/200 offers two important attributes much needed for continuous wave and pulsed fiber lasers and amplifiers at 1550 nm. The PM PANDA-style configuration enables the design of lasers and amplifiers with linearly polarized output. In addition, the large core/clad ratio (17/200), enables the design of short length pulsed amplifiers capable of delivering much higher pulse energies and peak powers than conventional single-mode Er/Yb fibers.

Typical Applications

- LIDAR
- Eye-safe amplifiers
- High peak power pulsed amplifiers

Features & Benefits

- Large core/clad ratio — Enables high peak power pulsed amplifiers
- PANDA-style stress structure for increased birefringence — Superior optical performance and uniformity
- All fiber proof-tested to > 100 kpsi — Low risk of mechanical damage and failure

Optical Specifications

Operating Wavelength	1530 – 1625 nm
Core NA	0.170
First Cladding NA (5%)	≥ 0.460
Cladding Attenuation	≤ 15.0 dB/km @ 1095 nm
Cladding Absorption	2.00 ± 0.30 dB/m at 915 nm
Core Absorption	45.00 ± 10.00 dB/m near 1530 nm
Birefringence	nominal 1.8×10^{-4}

PM-EYDF-17/200

Geometrical & Mechanical Specifications

Cladding Diameter	200.0 ± 10.0 μm
Core Diameter	17.0 ± 2.0 μm
Coating Diameter	350.0 ± 25.0 μm
Proof-test Level	≥ 100 kpsi (0.7 GN/m ²)



7 Airport Park Road, East Granby, CT 06026 • 860.408.5000 • Toll-free 866.466.0214 • Fax 860.844.0210 E-mail info @ nufern.com • www.nufern.com Nufern products are manufactured under an ISO 9001:2008 certified quality management system.



Standard specifications and design parameters are listed above. Specifications are subject to change without notice. Other configurations such as alternative form factors, optimized cut-off and UV cured color coating may be available. Let us know how Nufern can assist with your requirements.