

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 (nominal)	C-Band and L-Band
Cladding Ytterbium Absorption @ 915 nm	2.0 ± 0.3 dB/m
Peak Core Erbium Absorption near 1535 nm	45 ± 10 dB/m
Core Numerical Aperture (nominal)	0.17
Cladding Numerical Aperture (nominal)	0.46
Birefringence (nominal)	1.8×10^{-4}

PM-EYDF-17/200

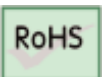
Geometrical & Mechanical Specifications

Core Diameter	17 ± 2 μ m
Clad Diameter	200 ± 10 μ m
Coating Diameter	350 ± 25 μ m
Outer Cladding Material	Low Index Polymer
Proof Test Level	≥ 100 kpsi (0.7 GN/m ²)

Note: The passive version of this fiber is also available.



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Nufern products are manufactured under an ISO 9001:2000 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.