

7-130 Erbium/Ytterbium-Doped Double Clad Fibers

Nufern's proprietary rare earth doping technology is used to deliver Er:Yb co-doped fibers with industry leading tolerances on the key spectroscopic parameters. This ensures the essential lot-to-lot reproducibility required for volume manufacturing of high power CATV and telecom optical amplifiers at 1550 nm. These fibers demonstrate high pump conversion efficiency and high power operation without rollover, enabled by the optimized double clad fiber design.

Typical Applications

- CATV and Telecom amplifiers
- LIDAR
- Eyesafe lasers and amplifiers

Features & Benefits

- Single-mode core design – Low splice loss to transmission fiber
- Double clad design – High power performance and high power conversion efficiency
- PANDA-style stress structure for increased birefringence – Superior optical performance and uniformity
- All fiber proof tested to ≥ 100 kpsi – Critical for ensuring long term reliability when coiling

Optical Specifications

Operating Wavelength (nominal)	
Mode Field Diameter	
Second Mode Cutoff	
Cladding Ytterbium Absorption @ 915 nm	
Peak Core Erbium Absorption near 1535 nm	
Core Numerical Aperture (nominal)	
Cladding Numerical Aperture (nominal)	
10 m Cross Talk @ 1300 nm	

Geometrical & Mechanical Specifications

Clad Diameter	
Coating Diameter	
Core-Clad Concentricity	
Outer Cladding Material	
Proof Test Level (radius bend method)	

PM-EYDF-7/130

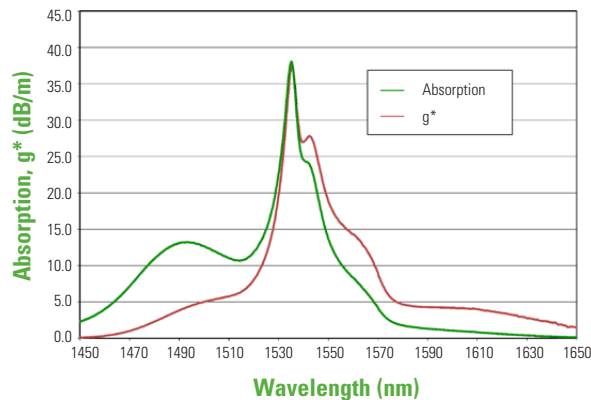
C-Band & L-Band	
7.00 \pm 0.75 μ m @ 1550 nm	
1460 \pm 60 nm	
0.60 \pm 0.15 dB/m	
38 \pm 8 dB/m	
0.17	
0.46	
A -25 dB	

SM-EYDF-7/130

C-Band & L-Band	
7.00 \pm 0.75 μ m @ 1550 nm	
1460 \pm 60 nm	
0.60 \pm 0.15 dB/m	
38 \pm 8 dB/m	
0.17	
0.46	
NA	

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

Absorption, g^* for SM-EYDF-7/130



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 9001:2000 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.