



L-Band Erbium Doped Fiber

Single-Mode Fiber

Nufern's high performance L-Band Erbium-Doped 980-HP Fibers (EDFL-980-HP and EDFL-980-HP-80) are designed for use in L-band amplifiers (1570 - 1610 nm) and compact ASE sources. The 80 μm version is a reduced-cladding fiber ideal for small form-factor devices. Both types can be powered with 980 nm or 1480 nm pumps. All Nufern's erbium-doped fibers are fabricated with a proprietary doping technology and have highly consistent and reproducible spectroscopy. These fibers are extensively characterized and accompanied by lot specific data.

Applications:

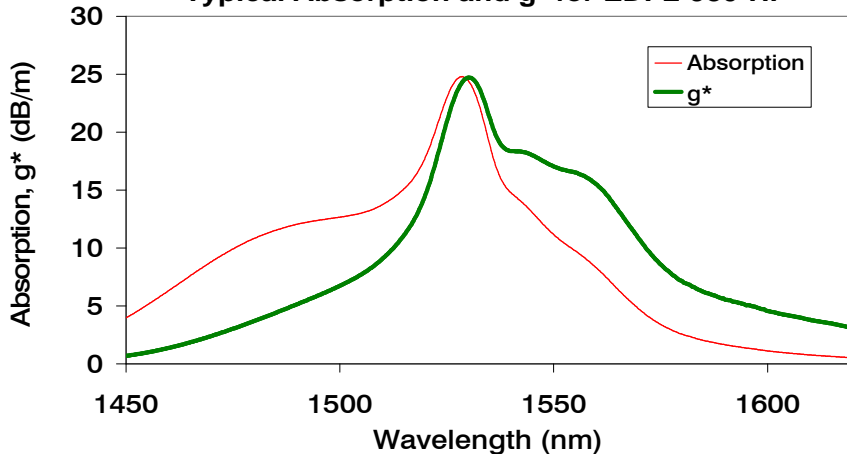
- L-band amplifiers
- Compact ASE sources
- Small form factor devices

Features and Benefits:

- Highly consistent and reproducible spectroscopy
- Tight optical and mechanical tolerances
- Excellent core concentricity for low splice loss
- Detailed lot-specific characterization data

OPTICAL SPECIFICATIONS	EDFL-980-HP EFX150250905512524AXXXA0D	EDFL-980-HP-80 EFX150060905608016AXXXA0D
Operating Wavelength (nominal)	L-Band	L-Band
MFD @ 1550 nm	5.5 \pm 0.5 μm	5.5 \pm 0.5 μm
Peak Absorption near 1530 nm	25 \pm 2 dB/m	25 \pm 2 dB/m
Peak Absorption near 980 nm	\geq 7.0 dB/m	\geq 7.0 dB/m
Loss @ 1200 nm	\leq 15.0 dB/km	\leq 15.0 dB/km
Second Mode Cut-Off	920 \pm 50 nm	920 \pm 50 nm
Numerical Aperture (nominal)	0.25	0.25
GEOMETRICAL AND MECHANICAL SPECS		
Clad Diameter	125 \pm 1.0 μm	80 \pm 1.0 μm
Coating Diameter	245 \pm 10 μm	165 \pm 10 μm
Core-Clad Concentricity	< 0.3 μm	< 0.3 μm
Coating/Clad Offset	\leq 5 μm	\leq 5 μm
Proof Test Level	\geq 200 kpsi (1.4 GN/m ²)	\geq 200 kpsi (1.4 GN/m ²)
Coating Material	UV Cured, Dual Acrylate	UV Cured, Dual Acrylate
Operating Temperature	- 40 to +85° C	- 40 to +85° C

Typical Absorption and g* for EDFL-980-HP



Standard specifications and design parameters are listed above. 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. Call **860-408-5000**, toll free at **866-466-0214** or email us at info@nufern.com.



Experience Determination

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