C-Band Erbium Doped Fibers

Highly consistent and reproducible spectroscopy — high manufacturing yields when matching to a GFF

Excellent core concentricity --- low splice loss to single-mode fibers

EDFC-980-HP-80

1530 - 1565 nm

920 ± 50 nm

5.8 ± 0.5 µm @ 1550 nm

≤ 15.0 dB/km @ 1200 nm

 $6.50 \pm 3.50 \text{ dB/m}$ at 980 nm $6.00 \pm 1.00 \text{ dB/m}$ near 1530

0.180 mW @ 1530 nm

0.230

nm

High aluminum concentration — inherent gain flatness



Nufern's high performance C-Band Erbium-Doped 980-HP Fibers are designed for use in single and multi-channel C-band amplifiers and ASE sources. The 80 µm version is suitable for small form-factor amplifiers and metro amps. The "HI" version is designed to achieve the highest possible optical efficiencies in applications where available pump power is limited. All Nufern erbium-doped fibers are fabricated with a proprietary technology and have highly consistent and reproducible spectroscopy

Typical Applications

- Single and multi-channel C-band amplifiers
- ASE sources
- Small form factor amps
- Metro amps

Optical Specifications

Operating Wavelength Core NA Mode Field Diameter Cutoff Core Attenuation Saturation Power Core Absorption

Geometrical & Mechanical Specifications

Cladding Diameter	
Core Diameter	
Coating Diameter	
Coating Concentricity	
Core/Clad Offset	
Coating Material	
Operating Temperature Range	
Prooftest Level	

125.0 ± 1.0 μm	80.0 ± 1.0 µm
3.2 µm	3.2 μm
245.0 ± 10.0 µm	165.0 ± 10.0 µm
< 5.0 µm	< 5.0 µm
≤ 0.30 µm	≤ 0.30 µm
UV Cured, Dual Acrylate	UV Cured, Dual Acrylate
-40 to 85 °C	-40 to 85 °C
≥ 200 kpsi (1.4 GN/m²)	≥ 200 kpsi (1.4 GN/m²)

Features & Benefits

EDFC-980-HP

1530 - 1565 nm

920 ± 50 nm

5.8 ± 0.5 µm @ 1550 nm

≤ 10.0 dB/km @ 1200 nm

6.00 ± 1.00 dB/m near 1530

6.50 ± 3.50 dB/m near 980

0.18 mW @ 1530 nm

0.230

nm

nm



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.