

ERBIUM-DOPED FIBERS FOR C-BAND

Specification Sheet

MP980 and MP980 80



Leading Optical Innovations

Erbium-Doped

Product Description

MP980 erbium-doped fiber is an industry standard and is a versatile erbium-doped fiber for all DWDM and CATV amplifier applications, with over 6000 km shipped to date. Excellent gain consistency has been proven with a large volume of production data. Pre-cut coils in a variety of sizes are also available to drop-in and splice for amplifier assemblies. We use patented processes to protect against hydrogen-induced loss.

OASiX Software Package. Accurate prediction of EDF performance is essential to applications design. To meet this need, OFS offers the OASiX Optical Amplifier Simulation System Software to design and predict EDFA performance. This specialized software package allows you to accurately predict the performance at all pump powers. OASiX includes modeling parameters specific to the lot of EDF you purchase. OASiX is also available in a DLL version to combine with external optimization tools.

Typical Applications

- DWDM amplifiers
- CATV amplifiers
- 980 and/or 1480 nm pumps

Features and Benefits

- High efficiency
- Excellent gain consistency
- Excellent batch-to-batch fiber uniformity
- Excellent spectral flatness for DWDM
- H₂ insensitive
- High reliability with extensive track record
- Low and consistent splice loss
- Dual-layer acrylate coating for excellent micro-bending, abrasion resistance, and mechanical strength
- OASiX modeling support

Related Products & Capabilities

- HP980X erbium-doped fiber for high-power C-Band
- LSL or LRL erbium-doped fiber for L-Band
- R37003 and R37004 erbium-doped fibers for C-Band

Ask us about other options available:

- Color-Coded Buffers**
- Coils**
- Custom Designs**
- Customized Spectral Shape**

To order items on this spec sheet, please contact our facility in:

- Somerset, New Jersey
1-732-748-7402
- or by email inquiry to:
Info@SpecialtyPhotonics.com



Leading Optical Innovations

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Fiber Specifications

Optical Properties	MP980	MP980 80
Peak absorption near 1530 nm	6.0 ± 1 dB/m	6.0 ± 1 dB/m
Cutoff wavelength	875 ± 75 nm	875 ± 75 nm
Numerical aperture	0.23 ± 0.02	0.23 ± 0.02
Mode field diameter @ 1550 nm	5.6 ± 0.7 μm	5.6 ± 0.7 μm
PMD (typical)	≤2 fs/m	≤2 fs/m
Loss at 1200 nm	<5 dB/km	<5 dB/km
Physical Properties		
Aluminum content (M%) (typical)	12	12
Cladding diameter	125 ± 2 μm	80 ± 2 μm
Coating diameter	250 ± 10 μm	165 ± 10 μm
Core/cladding concentricity error	<0.3 μm	≤0.3 μm
Mechanical and Testing Data		
Proof test level	2% (200 kpsi)	2% (200 kpsi)
Order by Part Number	107 770 935	300 378 718

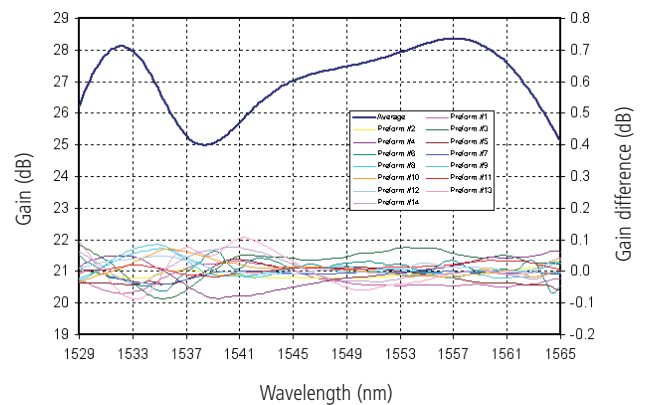
Typical absorption variation: <2%

Erbium-Doped

Gain Shape Consistency

for >1000 km

Shape Deviation <0.8% (PV)



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