



Product Description

LRL erbium-doped fiber reduces the fiber length required to build L-Band amplifiers. It is ideal for amplifiers for L-Band applications. Using both LRL and LSL erbium-doped fibers in an amplifier adds flexibility to the amplifier designs to reduce non-linear effects. 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

- L-Band DWDM amplifiers
- Small-channel-count L-Band amplifiers
- Compact L-Band amplifiers

Features and Benefits

- High erbium concentration gives short device length, reducing length-accumulated impairments
- Flat gain spectrum
- H₂ insensitive
- High reliability
- Low and consistent splice loss
- Low bend loss
- Dual-layer acrylate coating for excellent micro-bending, abrasion resistance, and mechanical strength
- OASiX modeling support

Related Products & Capabilities

- LSL, R37103, and R37102-80 erbium-doped fibers for L-Band
- MP980 or HP980X erbium-doped fiber for C-Band

Ask us about other options available:

- Customized Spectral Shape**
- Coils**
- Custom Designs**

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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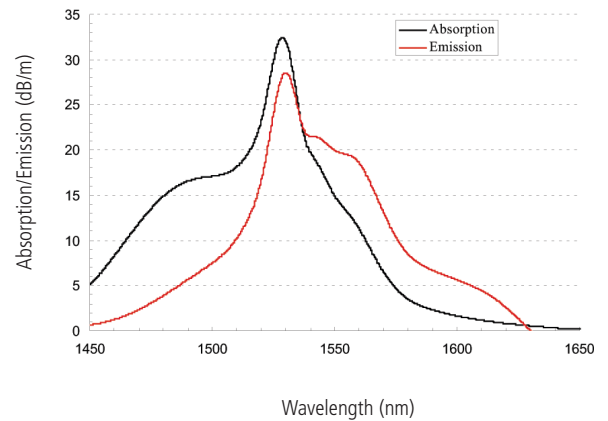
Fiber Specifications

Optical Properties	LRL	LRL 80
Peak absorption near 1530 nm	30 ± 3 dB/m	30 ± 3 dB/m
Cutoff wavelength	1100 - 1400 nm	1100 - 1400 nm
Numerical aperture	0.25 ± 0.02	0.25 ± 0.02
Mode field diameter @ 1550 nm	5.2 ± 0.5 μm	5.2 ± 0.5 μm
PMD (typical)	≤2 fs/m	≤2 fs/m
Loss at 1200 nm	<10 dB/km	<10 dB/km
Physical Properties		
Co-dopants	Ge/Al	Ge/Al
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	2.0% (200 kpsi)	2.0% (200 kpsi)
Order by Part Number	109 108 910	300 378 734

Erbium-Doped

Spectral Shape

LRL Erbium Fiber



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