ER35-7-PM

Polarization-maintaining erbium-doped fiber

This Er-doped single-clad PM fiber features a high absorption and high birefringence, which is ideal for the design of eye-safe PM fiber lasers and amplifiers for a wide range of 1.5 µm applications.

Features & Benefits

- High absorption– reduces nonlinear effects
- High birefringence – minimizes stress
- Provides highly efficient energy transfer, minimizing pump power requirements
- Low background losses

Applications

- Ultrafast fiber lasers & amplifiers
- LiDAR
- Second Harmonic Generation
- Medical
- Scientific

Related Products

- ER35-7
  Non-PM version

Specifications

Optical

Background Loss @1200 nm (dB/km)	≤ 10
Birefringence (x10E-04)	≥ 1.4
Core Absorption @ 1530 nm (dB/m)	35 ± 5
Cutoff Wavelength (nm)	1450 ± 50
MFD @ 1550nm (µm)	6.5 ± 0.5
Numerical Aperture - Core	Typ. 0.22

Geometrical & Mechanical

Cladding diameter (µm)	125 ± 2
Coating Diameter (µm)	245 ± 10
Core/Cladding Concentricity Error (µm)	≤ 1
Proof Test (kpsi)	<= 100

Environmental

Storage Temperature (°C)	-40 to +85