EDF-ASE-1550

Erbium Doped fiber for ASE source

Designed for high conversion efficiency as well as broad and flat spectral output, EDF-ASE-1550 is optimized for reliable C-band ASE source. Its high core absorption and low degree of polarization make this fiber an ideal solution for the design of broadband ASE sources for telecom applications.

Features & Benefits

- high Er core absorption @ 1550 nm
- Broadand flat Ase spectrum
- Low polarization
- High pump absorption @980 nm

Applications

- Fiber Optic Gyroscopes (FOGs) and Inertial Sensors
- Fiber Bragg Grating (FBG) interrogation systems
- Broadband benchtop test sources
- Optical Coherence Tomography (OCT)

Specifications

Optical

Background Loss @1200 nm (dB/km)	<= 20
Core Absorption @ 1535 nm (dB/m)	45 ± 5
Core Absorption @ 980 nm (dB/m)	>= 12
Cutoff Wavelength (nm)	1450 ± 30
MFD @ 1550nm (µm)	6.5 ± 0.5
Numerical Aperture - Core	Typ. 0.20

Geometrical & Mechanical

Cladding diameter (µm)	125 ± 1
Coating Diameter (µm)	247.5 ± 12.5
Core Diameter (µm)	Typ. 5.5
Core/Cladding Concentricity Error (µm)	<= 1
Proof Test (kpsi)	>= 100

Environmental

Storage Temperature (°C)	-40 to +85