



LIEKKI™ Er20-4/125 fibers are highly doped erbium fibers designed for C- and L-band Metro, CATV and DWDM amplifiers, and ASE sources. High erbium concentration reduces the required application fiber length and non-linear effects, making these fibers ideal for small size or high bit rate applications.

LIEKKI™ Er20-4/125 fibers are currently only available as high cut-off (Er20-4/125HC) fibers.

Features

- Excellent batch consistency of erbium peak absorption and spectral shape
- Very short fiber lengths reduces non-linear effects like FWM, SRS and SBS
- Wide and flat spectrum
- Low polarization mode dispersion, typical value < 25fs/m
- Low splice loss, LIEKKI™ EasySplice software for splicing parameters
- Suitable for both 980 nm and 1480 nm pumping
- Telcordia GR-1312-CORE Generic Requirements qualified
- Dual layer UV-cured acrylate coating

Applications

- C- and L-band DWDM, Metro and CATV
- ASE sources

Typical Device Performance

Package		LIEKKI™ Er20-4/125	LIEKKI™ Er20-4/125HC
Optical			
Mode Field Diameter at 1550 nm	µm	6.5 ± 0.5	6.5 ± 0.5
Peak Core Absorption at 1530 nm	dB/m	20 ± 2	20 ± 2
Core Numerical Aperature (nominal)		(0.2)	(0.2)
Cut-off Wavelength	nm	800-980	1100 - 1400
Geometrical and Mechanical			
Core Concentricity Error	µm	< 0.7	< 0.7
Cladding Diameter	µm	125 ± 2	125 ± 2
Cladding Geometry	µm	Round	Round
Coating Diameter	µm	245 ± 15	245 ± 15
Coating Material		High Index Acrylate	High Index Acrylate
Proof Test	Kpsi	> 1	> 1

Proven Performance

Typical Performance Data

