

LIEKKI<sup>TM</sup> Er40-4/125 fibers are highly doped erbium fibers designed for C- and L-band amplifiers, and ASE sources. Due to the high absorption level this fiber is particularly use for L-band applications.

#### **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 •
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- Low polarization mode dispersion, typical value <25 fs/m Low splice loss, LIEKKI<sup>™</sup> 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**

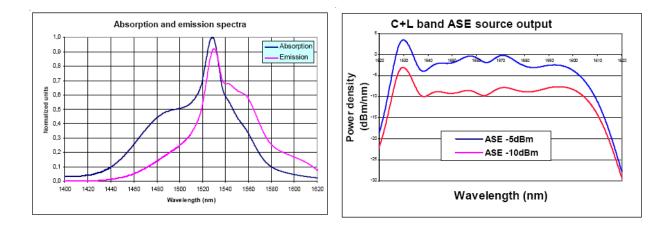
- L-band DWDM
- L-band ASE sources
- Low non-linearity • applications

### **Proven Performance**

# **Typical Device Performance**

Fiber		LIEKKI <sup>™</sup> Er40-4/125
Optical		
Mode Field Diameter at 1550 nm	μm	6.5 ± 0.5
Peak Core Absorption at 1530 nm	dB/m	40 ± 4
Core Numerical Aperture (nominal)		(0.2)
Cut-off Wavelength	nm	800 - 980
Geometrical and Mechanical		
Core Concentricity Error	μm	< 0.7
Cladding Diameter	μm	125 ± 2
Cladding Geometry	μm	Round
Coating Diameter	μm	245 ± 15
Coating Material		High Index Acrylate
Proof Test	Kpsi	> 100

# **Typical Performance Data**



**Proven Performance**