

LIEKKI™ Er110-4/125

Erbium Doped Fiber



LIEKKI™ Er110-4/125 fibers are highly doped erbium fibers for fiber lasers.

High erbium concentration reduces required application fiber length while providing strong gain and reduced non-linear effects.

Applications

- Ultra-short pulse (femtosecond) amplifiers
- Low non-linearity applications

Features

- Excellent batch consistency of erbium peak absorption and spectral shape
- Short fiber length reduces non-linear effects like FWM, SRS and SBS
- Very good temperature behavior
- Low splice loss, LIEKKI™ EasySplice software for splicing parameters
- Suitable for both 980 nm and 1480 nm pumping
- Dual layer UV-cured acrylate coating

Typical device specification

LIEKKI™ Er110-4/125

Optical

Mode field diameter at 1550 nm	μm	6.5 ± 0.5
Peak core absorption at 1530 nm	dB/m	110 ± 10
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		round
Coating diameter	μm	245 ± 15
Coating material		high index acrylate
Proof test	%	> 1

Notice

nLIGHT continually improves its products to provide its customers with outstanding quality and reliability. nLIGHT may make changes to specifications and product descriptions at any time, without notice. In addition, nLIGHT offers a limited warranty to ensure customer satisfaction. For complete details, please contact your nLIGHT sales representative.