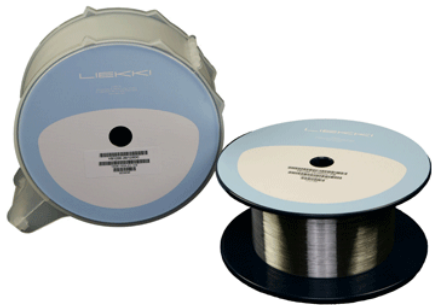


LIEKKI™ Er30-4/125

Erbium Doped Fiber



LIEKKI™ Er30-4/125 fibers are highly doped erbium fibers designed for C- and L-band amplifiers, and ASE sources. These fibers are available as low cut-off fibers (Er30-4/125) and high cut-off fibers (Er30-4/125HC).

The high cut-off version has demonstrated the highest power conversion efficiency available in L-band: better than 50% for a typical fiber length of 20 m.

Applications

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

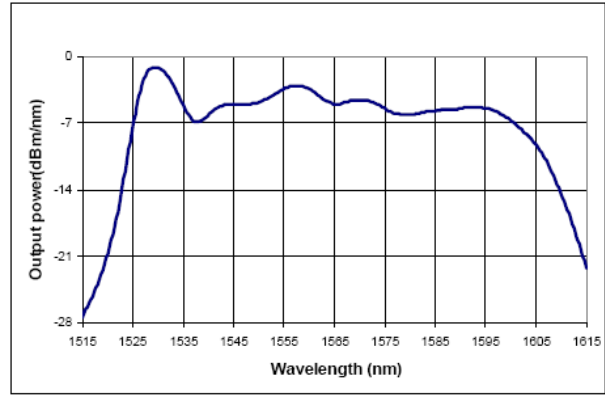
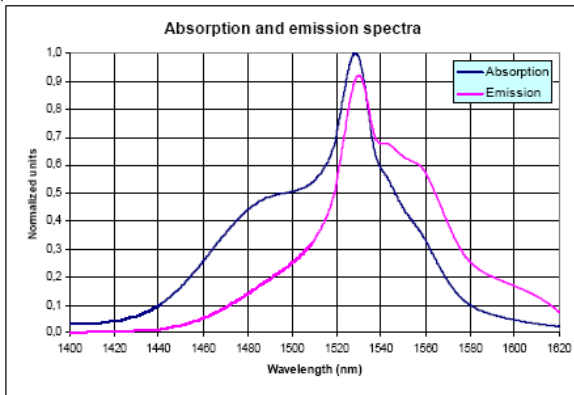
Features

- 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 <25 fs/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

Typical device specification

		LIEKKI™ Er30-4/125	LIEKKI™ Er30-4/125HC
Optical			
Mode field diameter at 1550 nm	µm	6.5 ± 0.5	6.5 ± 0.5
Peak core absorption at 1530 nm	dB/m	30 ± 3	30 ± 3
Core numerical aperture (nominal)		(0.2)	(0.2)
Cut-off wavelength	nm	800 - 980	1000 - 1400
Geometrical and mechanical			
Core concentricity error	µm	< 0.7	< 0.7
Cladding diameter	µm	125 ± 2	125 ± 2
Cladding geometry		round	round
Coating diameter	µm	245 ± 15	245 ± 15
Coating material		high index acrylate	high index acrylate
Proof test	%	> 1	> 1

Typical performance data



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.