Highly Doped Erbium Fibers for 1.53-1.61µm Lasers & Amplifiers

ER40-4/125
Liekki ER40-4/125 is a highly doped fiber for L-band amplifiers exhibiting a very low level of Polarization Mode Dispersion (PMD) and reduced nonlinear effects. This fiber is available in a low cutoff or a high cutoff version. The typical fiber length per application is about 15m.

Optical Characteristics
- **Peak Absorption at 1530nm:** 40 ± 4dB/m
- **Mode Field Diameter at 1550nm:** 6.5 ± 0.5µm
- **Core Numerical Aperture:** 0.2
- **Fiber Cutoff Wavelength:** 800-980nm

ER80-4/125
Liekki ER80-4/125 is a highly doped fiber for fiber lasers and amplifiers. It has a very high erbium concentration that minimizes the required application fiber length while providing strong gain and reduced nonlinear effects.

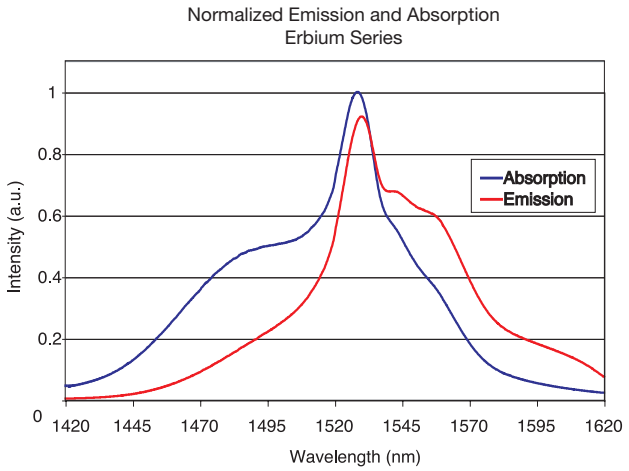
Optical Characteristics
- **Peak Absorption at 1530nm:** 80 ± 8dB/m
- **Mode Field Diameter at 1550nm:** 6.5 ± 0.5µm
- **Core Numerical Aperture:** 0.2
- **Fiber Cutoff Wavelength:** 800-980nm

ER80-8/125
Liekki ER80-8/125 is a large-mode-area, single mode fiber suitable for high-power amplifiers and lasers (output power of 25dBm or more). Good spliceability, high doping, and large core make this fiber ideal for high-peak-power pulse amplification in the eye-safe 1.5µm wavelength region.

Optical Characteristics
- **Peak Absorption at 1530nm:** 80 ± 8dB/m
- **Mode Field Diameter at 1550nm:** 9.5 ± 0.5µm
- **Core Numerical Aperture:** 0.13
- **Fiber Cutoff Wavelength:** 1100-1400nm

ER110-4/125
Liekki ER110-4/125 is a highly doped fiber for ultra-short pulse amplifiers operating in the 1.5µm wavelength region. It has a very high erbium concentration that minimizes the required application fiber length while providing strong gain and reduced nonlinear effects.

Optical Characteristics
- **Peak Absorption at 1530nm:** 110 ± 10dB/m
- **Mode Field Diameter at 1550nm:** 6.5 ± 0.5µm
- **Core Numerical Aperture:** 0.2
- **Fiber Cutoff Wavelength:** 800-980nm



Price Schedule – Call For Quantities > 250m

ITEM#	PRICE/m	$	£	€	RMB
ER40-4/125	1 to 9m	$ 24.00	£ 15.10	€ 22,30	¥ 229.20
	10 to 49m	$ 19.05	£ 12.00	€ 17,70	¥ 181.95
	50 to 249m	$ 14.30	£ 9.00	€ 13,30	¥ 136.55
ER80-4/125	1 to 9m	$ 98.00	£ 61.75	€ 91,15	¥ 935.90
	10 to 49m	$ 75.00	£ 47.25	€ 69,75	¥ 716.25
	50 to 249m	$ 56.25	£ 35.45	€ 52,30	¥ 537.20
ER80-8/125	1 to 9m	$ 98.00	£ 61.75	€ 91,15	¥ 935.90
	10 to 49m	$ 75.00	£ 47.25	€ 69,75	¥ 716.25
	50 to 249m	$ 56.25	£ 35.45	€ 52,30	¥ 537.20
ER110-4/125	1 to 9m	$ 98.00	£ 61.75	€ 91,15	¥ 935.90
	10 to 49m	$ 75.00	£ 47.25	€ 69,75	¥ 716.25
	50 to 249m	$ 56.25	£ 35.45	€ 52,30	¥ 537.20

Single Mode Very Highly Er-doped Fiber Specifications

ITEM#	RECOMMENDED OPERATING λ	PEAK ABSORPTION	MFD	CLADDING DIAMETER	COATING DIAMETER	CUTOFF WAVELENGTH	NA
ER40-4/125	L-Band	40 ± 4dB/m	6.5 ± 0.5µm	125 ± 2µm	245 ± 15µm	800-980nm	0.2
ER80-4/125	C-, L-Band	80 ± 8dB/m	6.5 ± 0.5µm	125 ± 2µm	245 ± 15µm	800-980nm	0.2
ER80-8/125	C-, L-Band	80 ± 8dB/m	9.5 ± 0.5µm	125 ± 2µm	245 ± 15µm	1100-1400nm	0.13
ER110-4/125	C-, L-Band	110 ± 10dB/m	6.5 ± 0.5µm	125 ± 2µm	245 ± 15µm	800-980nm	0.2