

OFS Fitel high concentration erbium doped fiber

These three erbium doped fibers offer the highest concentration of dopant of any fibers offered by Thorlabs. For short fiber lasers, a very high erbium concentration is available to produce the highest gain per unit length. For ASE sources, fibers with a high NA and moderately high erbium concentration are available. All of these fibers meet the most stringent standards for performance and reliability.

Applications

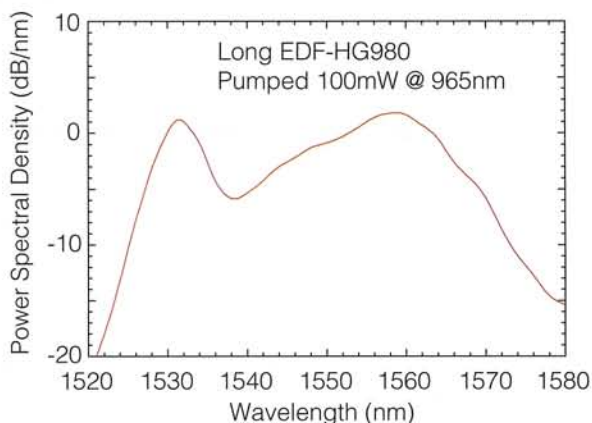
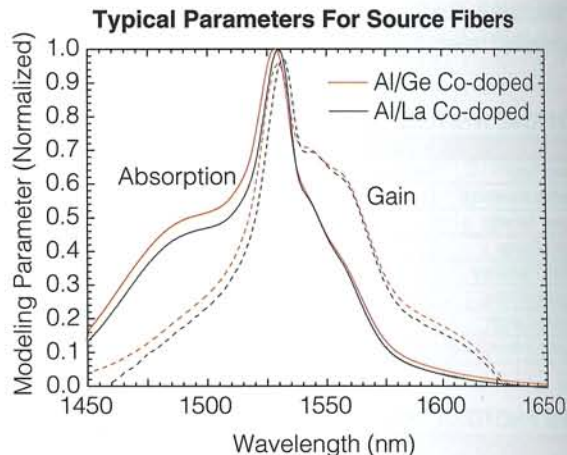
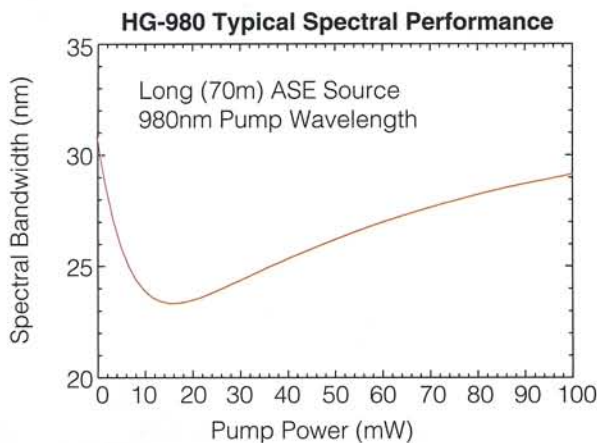
For short laser cavities, a high concentration erbium doped fiber is ideal. The HC fiber meets this need.

The main uses for the HC fiber are:

- Stable short lasers
- Short lasers for a MOPA design

For ASE sources, Thorlabs offers two products with different co-dopants. The HG980 fiber contains aluminum and germanium, while the R37005 fiber contains aluminum and lanthanum. Both are efficient, high NA fibers. The HG980 and R37005 fibers are used in:

- ASE source applications
- Short EDFA uses



- ▶ Pumped at either 980nm or 1480nm
- ▶ High power conversion efficiency
- ▶ Low back-scattering for ASE stability
- ▶ Low radiation sensitivity for space applications
- ▶ Low, repeatable splice loss to standard fibers
- ▶ Low hydrogen sensitivity

PRICE SCHEDULE

ITEM #	PRICE/m	\$	£	€	¥
EDF-HG980	1-9m	\$43.20	£39.31	€54,86	¥7,344
	10-49m	\$39.00	£35.49	€49,53	¥6,630
	Over 50m	Call	Call	Call	Call
R37005	1-9m	\$50.85	£46.27	€64,58	¥8,645
	10-49m	\$45.00	£40.95	€57,15	¥7,650
	Over 50m	Call	Call	Call	Call
EDF-HC	1-9m	\$450.00	£409.50	€571,50	¥76,500
	10-49m	\$420.00	£382.20	€533,40	¥71,400
	Over 50m	Call	Call	Call	Call

ITEM #	PEAK ABSORPTION @ 1530nm α (dB/m)	PEAK ABSORPTION @ 980nm α (dB/m)	CUTOFF WAVELENGTH (nm)	MODE FIELD DIA. @ 1550nm	LOSS @ 1200nm (dB/km)	CLADDING DIAMETER	JACKET DIAMETER	CO-DOPANTS	NA
EDF-HG980	8-14	5.6-14.0	800-950	4.4±0.8μm	<25	125±2μm	250±15μm	Ge/Al	0.29±0.04
R37005	15-25	—	800-1200	4.9±0.5μm	<25	125±2μm	250±15μm	La/Al	0.28±0.02
EDF-HC	45-65	—	1000-1200	4.3±0.7μm	<100	125±2μm	250±15μm	Ge/Al	0.29±0.04