

erbium doped C & L band fibers: 3M



Specialty
Fibers
Manufactured
by: **3M**

3M Rare Earth Doped Fibers have an advanced composition specifically optimized for 980 and 1480nm pumping. This proven fiber line shines in applications where it is necessary to restore power to amplify a depleted optical signal, with minimum added noise. It is ideal for optical fiber amplifiers functioning in the 1550nm range and broadband ASE sources.

Applications

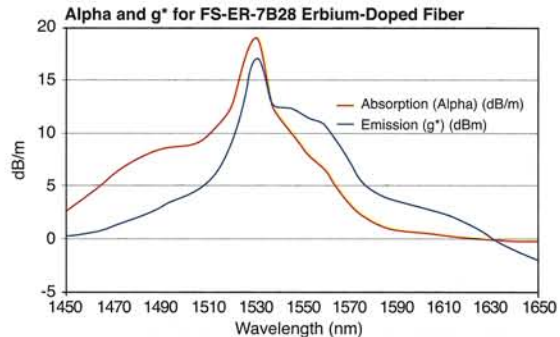
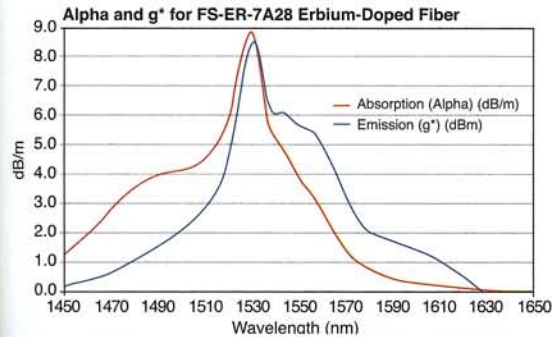
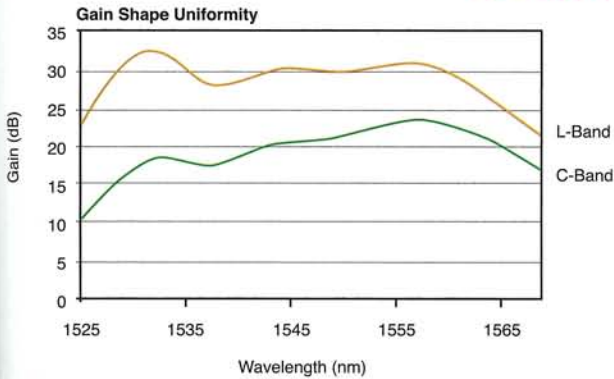
- ▶ Optical amplifiers for CATV and WDM applications
- ▶ Booster amplifiers
- ▶ In-line amplifiers
- ▶ ASE Sources
- ▶ Laser delivery systems

Features and Benefits

- ▶ 3M Erbium Doped fiber has a Lanthanum-Aluminosilica core which is doped with Erbium ($Er^{3+} - La_2O_3 - Al_2O_3 - SiO_2$).

PRICE SCHEDULE-Call for quantities over 250m

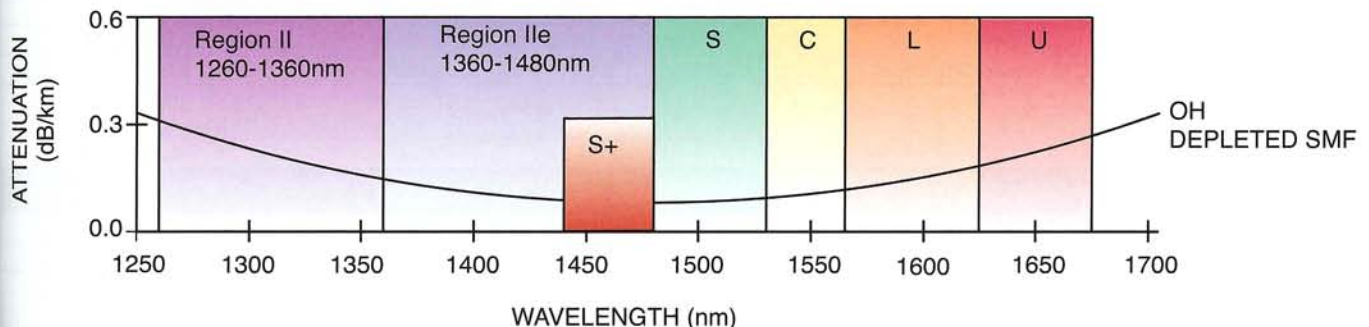
ITEM #	PRICE/m	\$	£	€	¥
FS-ER-7A28	1-9m	\$27.00	£24.57	€29,70	¥4,590
	10-49m	\$18.90	£17.20	€20,79	¥3,213
	50-249m	\$15.49	£14.10	€17,04	¥2,633
FS-ER-7B29	1-9m	\$34.43	£31.33	€37,87	¥5,853
	10-49m	\$24.10	£21.93	€26,51	¥4,097
	50-249m	\$19.75	£17.97	€21,73	¥3,358



ITEM #	OPERATING WAVELENGTH	MODE FIELD DIAMETER	CLADDING ±2µm	JACKET ±15µm	CUT-OFF WAVELENGTH	PEAK ABSORPTION	PMD	ABSORPTION VARIABILITY	NA	STRIPPER TOOL
FS-ER-7A28	C-Band	5.0µm @ 1550nm	125µm	250µm	<950nm	6-8dB/m @ 1530nm	<4fs/m	4% of peak/km	0.26	T06S13
FS-ER-7B28	L-Band	5.0µm @ 1550nm	125µm	250µm	<950nm	<18dB/m @ 1530nm	<4fs/m	4% of peak/km	0.26	T06S13

ITU WAVELENGTH RANGE DESIGNATIONS:

Proposed S+ BAND 1430-1480nm
 S-BAND: 1440 - 1530nm L-BAND: 1565 - 1625nm
 C-BAND: 1530 - 1565nm U-BAND: 1625 - 1675nm



Passive
Devices

Rackbox
System

Collimation &
Termination

Single Mode:
460-1550nm

Single Mode:
Er Doped

Single Mode:
Polarization
Maintaining

Photonic
Crystal

Multimode:
Graded Index

Multimode:
Step Index