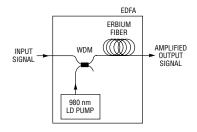
Erbium-Doped Fiber -

Newport's Erbium-Doped Fiber

provides the basic building block to fiber optic amplifiers used in broadband optical networks and CATV applications in the 1550 nm fiber optic transmission window. Having an erbium dopant concentration of 220 ppm, and co-doped with alumina,

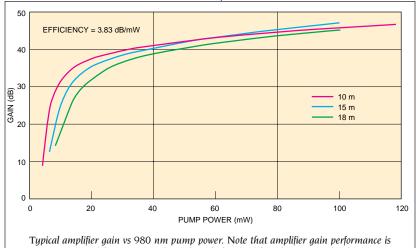
this fiber can deliver gain-efficiencies in excess of 3.5 dB/mW, when pumped with a 980 nm laser diode. Small signal gains of greater than 20 dB have been achieved with only 12 meters of this fiber, over a gain bandwidth of greater than 30 nm.



Typical Erbium-Doped Fiber Amplifier (EDFA) configuration for low noise applications.

Specifications

Model	F-EDF
Operating Wavelength	980/1550 nm
Index Profile	Step
NA	0.21
Mode Field Diameter	3.5 µm
Cladding/Coating Diameter	125/245 μm
Efficiency w/980 nm Pump	3.83 dB/mW
Absorption @ 1535/978 nm	5.5/5.2 dB/m
Cut-Off Wavelength	880 nm
Background Loss	3.1 dB/km



affected by input signal wavelength, bandwidth and saturation level.

Ordering Information

For Ordering Information, please see page 5-33.

