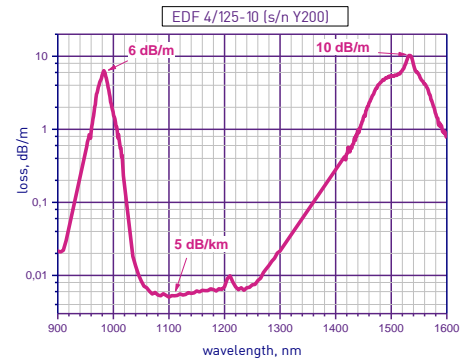


# SPECIALTY FIBER ERBIUM DOPED FIBERS

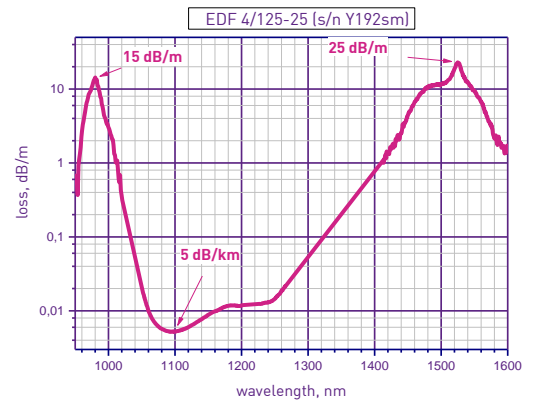
## ARTICLE EDF 4/125-10

Erbium doped fiber EDF-4/125-10 is specially designed to achieve the highest efficiency of telecommunication amplifiers



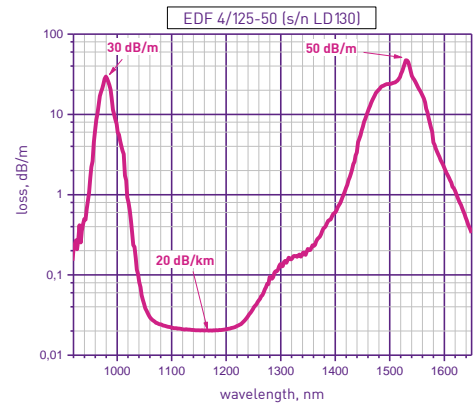
## ARTICLE EDF 4/125-25

Erbium doped fiber EDF-4/125-25 is designed to minimize the amplifier length without pump-to-signal conversion efficiency degradation



## ARTICLE EDF 4/125-50

Erbium doped fiber EDF-4/125-50 is designed for amplification of ultra-short pulses, when high efficiency, a short amplifier length and a high negative dispersion (-30..-50 ps/nm/km) are required



FIBER SPECIFICATIONS	EDF-4/125-10	EDF 4/125-25	EDF 4/125-50
Core diameter, $\mu\text{m}$	$4 \pm 0.5$	$4 \pm 0.5$	$3.5 \pm 0.5$
Core NA	$0.21 \pm 0.03$	$0.24 \pm 0.03$	$0.27 \pm 0.03$
Core absorption (980 nm), dB/m	$6 \pm 1$	$14 \pm 2$	$30 \pm 5$
Core absorption (1532 nm), dB/m	$10 \pm 3$	$25 \pm 5$	$50 \pm 15$
Background loss (1100 nm), dB/km	< 10	< 20	< 30
Clad diameter, $\mu\text{m}$	$125 \pm 1$	$125 \pm 1$	$125 \pm 1$
Cutoff wavelength, $\mu\text{m}$	< 0.98	< 0.98	< 0.98
Mode field diameter, $\mu\text{m}$	$5.5 \div 7.5$	$5.5 \div 7.5$	$\sim 5.5$
Dispersion @ 1550nm, ps/nm/km	-	-	- 36
Dispersion slope @ 1550nm, ps/nm <sup>2</sup> /km	-	-	< 0.03

Other parameters are available on the request

