

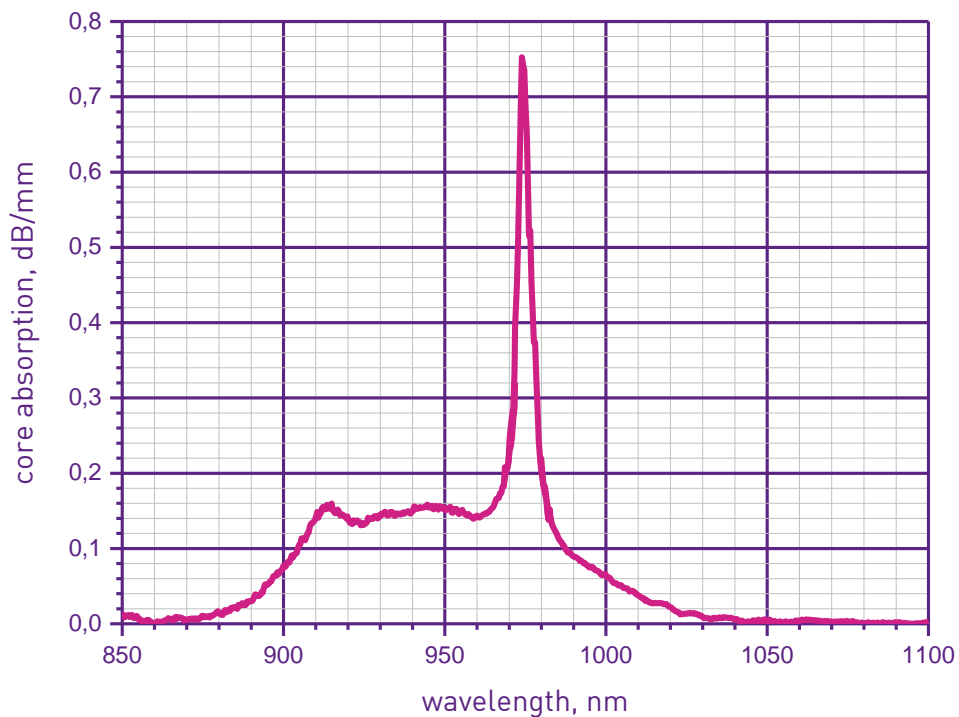
# SPECIALTY FIBER YTTERBIUM DOPED FIBER

PHOTODARKENING FREE  
Yb-DOPED SINGLE MODE FIBER

## ARTICLE YDF-SM-6/125

Ytterbium doped fiber YDF-SM-6/125 series is designed for operation without power degradation in core-pumped laser and amplifier schemes.

Typical core absorption



FIBER SPECIFICATIONS	YDF-SM-6/125
Core diameter, $\mu\text{m}$	$5.5 \pm 0.7$
Clad diameter, $\mu\text{m}$	$125 \pm 3$
Coating diameter, $\mu\text{m}$	$240 \pm 30$
Core NA	$0.16 \pm 0.02$
Cutoff wavelength, $\mu\text{m}$	$0.9 \pm 0.1$
Core absorption (915 nm), dB/m	$150 \pm 25$
Core absorption (976 nm), dB/m	$> 750 \pm 130$
Background loss (1150 nm), dB/km	$< 30$
Effective pumping range, $\mu\text{m}$	$0.91 \div 0.984$
Photodarkening resistance	$> 20$ times better compare to the $\text{Al}_2\text{O}_3$ -SiO Yb-doped fiber

Other parameters including PM version are available on the request