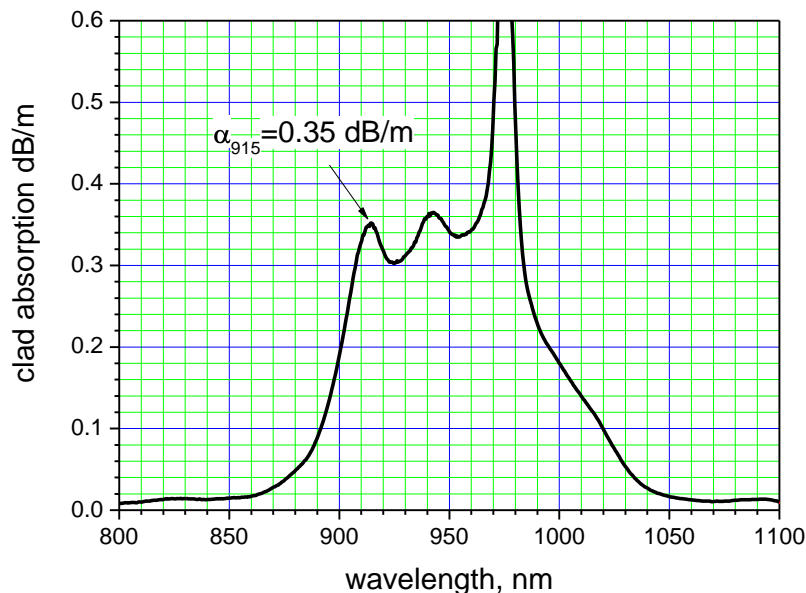


## YTTERBIUM DOPED FIBER (Photodarkening free Yb-doped Double Clad fiber)

### Article YDF-DC-6/125

**YDF-DC-6/125** series is specially designed for highly efficient high-reliability CW lasers operating in the 1.03-1.08  $\mu\text{m}$  spectral range. Flat absorption in the range of 910-965 nm and specially designed polymer coating allow usage of laser based on such fibers in an extra wide temperature range (-60..+60°C).



Typical inner clad absorption

### Fiber specifications

Core diameter	$6.0 \pm 0.5 \mu\text{m}$
Clad diameter	$125 \pm 3 \mu\text{m}$
Clad shape	octagonal
Core NA	$0.16 \pm 0.02$
Cutoff wavelength	$1.03 \pm 0.02 \mu\text{m}$
Clad NA	0.42 to 0.46
Clad absorption (915 nm)	$0.35 \pm 0.05 \text{ dB/m}$
Background loss (1150 nm)	<30 dB/km
Effective lasing range	1.03 - 1.08 $\mu\text{m}$
Effective pumping range	0.91 - 0.984 $\mu\text{m}$
Photodarkening resistance	>20 times better compare to the $\text{Al}_2\text{O}_3\text{-SiO}_2$ Yb-doped fiber

**Other parameters including PM version are available on the request**