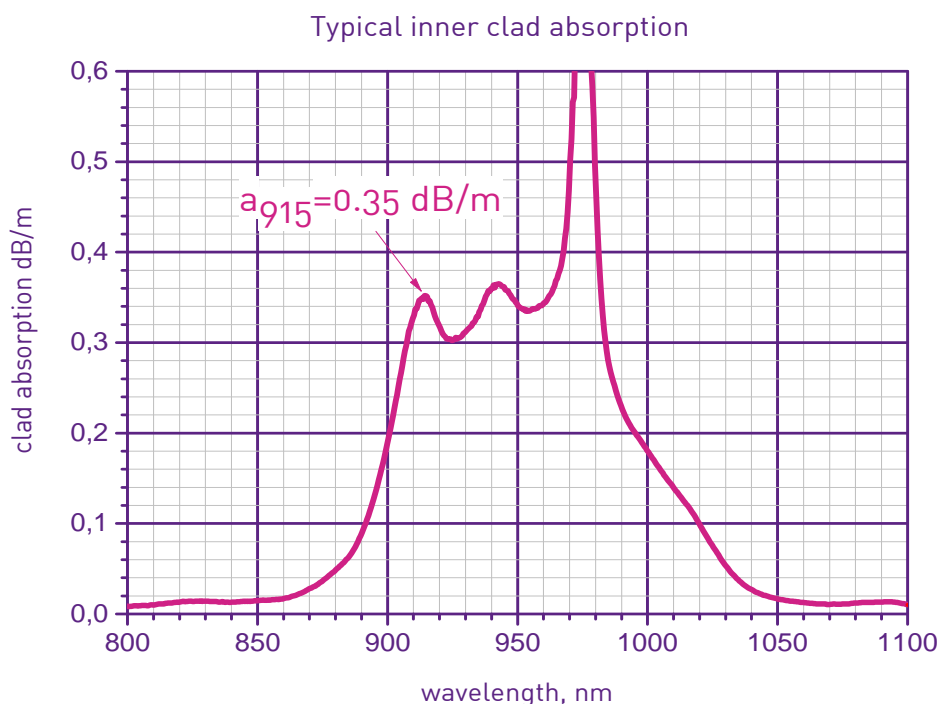


# SPECIALTY FIBER YTTERBIUM DOUBLE CLAD FIBER

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).



FIBER SPECIFICATIONS	YDF-DC-6/125
Core diameter, $\mu\text{m}$	$6.0 \pm 0.5$
Clad diameter, $\mu\text{m}$	$125 \pm 3$
Clad shape	octagonal
Core NA	$0.16 \pm 0.02$
Cutoff wavelength, $\mu\text{m}$	$1.03 \pm 0.02$
Clad NA	$0.44 \pm 0.02$
Clad absorption (915 nm), dB/m	$0.35 \pm 0.05$
Clad absorption (976 nm), dB/m	$\sim 2$
Core/clad 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