## SPECIALTY FIBER YTTERBIUM DOPED FIBER

## PHOTODARKENING FREE Yb-DOPED DOUBLE CLAD FIBER

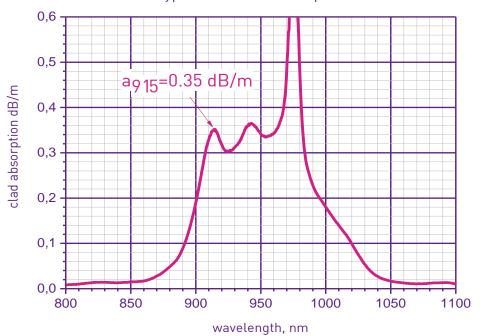
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## **ARTICLE YDF-DC-6/125**

Ytterbium doped fiber YDF-DC-6/125 series is specially designed for highly efficient high-reliability CW lasers operating in the 1.03-1.08 µm 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	YDF-DC-6/125
Core diameter, µm	6.0 ± 0.5
Clad diameter, µm	125 ± 3
Clad shape	octagonal
Core NA	0.16 ± 0.02
Cutoff wavelength, µm	1.03 ± 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	~ 2
Core/clad background loss (1150 nm),dB/km	< 30
Effective pumping range, µm	0.91 ÷ 0.984
Photodarkening resistance	> 20 times better compare to the Al <sub>2</sub> O <sub>3</sub> - SiO Yb-doped fiber

Other parameters including PM version are available on the request