

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).



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 ± 0.02
Clad absorption (915 nm), dB/m	0.35 ± 0.05
Clad absorption (976 nm), dB/m	~ 2
Core/clad background loss (1150 nm), dB/km	< 30
Effective pumping range, μm	$0.91 \div 0.984$
Photodarkening resistance	> 20 times better compare to the Al_2O_3 - SiO Yb-doped fiber

Other parameters including PM version are available on the request