

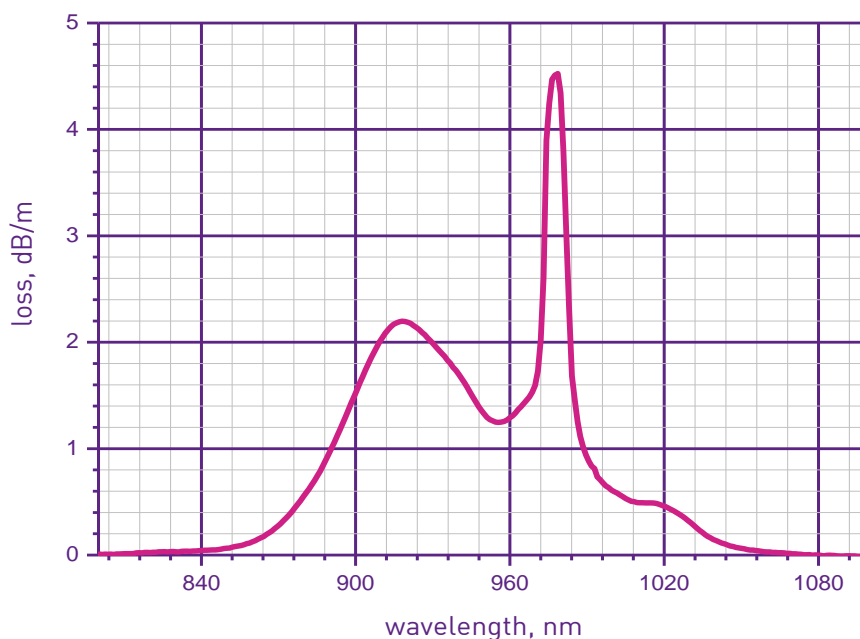
SPECIALTY FIBER YTTERBIUM DOPED FIBER

PHOTODARKENING FREE
Yb-DOPED DOUBLE CLAD FIBER

ARTICLE YDF-DC-10/125

Ytterbium doped fiber YDF-DC-10/125 series is designed for operation without any power degradation in a high-peak-power cladding pumped amplifiers. The highest clad absorption over the market allows usage of only 3 m of such fiber (with 976 nm pump) for efficient amplification.

Typical inner clad absorption



FIBER SPECIFICATIONS	YDF-DC-10/125
Core diameter, μm	10.0 ± 1
Clad diameter, μm	127 ± 3
MDF @ 1064nm, μm	10.0 ± 1
Clad shape	PANDA or octagonal
Core NA	0.09 ± 0.01
Cutoff wavelength, μm	1.05 ± 0.1
Clad NA	> 0.46
Clad absorption (915 nm), dB/m	> 1.8
Clad absorption (976 nm), dB/m	~ 5
Core/clad background loss (1150 nm), dB/km	< 50
Effective pumping range, μm	$0.91 \div 0.984$
Photodarkening resistance	> 20 times better compare to the Al_2O_3 - SiO_2 Yb-doped fiber

Other parameters including PM version are available on the request