



DCF-YB-6/128S

Yb-doped fiber for pulsed lasers

The DCF-YB-6/128S shows excellent photodarkening resistance performance ensuring high reliability and longterm stability. This fiber is designed for single-mode operation and shows high absorption, which is ideal for highpower pulsed fiber lasers and amplifiers used for industrial applications.

Features & Benefits

- Single-mode operation for excellent beam quality
- Very low photodarkening at high power –ensures stable long-term operation
- High efficiency – reduces pump power requirements

Applications

- Medium power CW or pulsed lasers & amplifiers
- Pre-amplifier section of multi-stage highpower amplifiers
- Material processing
- Scientific

Related Products

- DCF-UN-6/125-14
Matched passive double-clad fiber
- DCF-UN-6/125-12
Matched passive double-clad fiber
- SCF-UN-6/125-12
Matched passive single-clad fiber

Specifications

Optical

Background Loss @1200 nm (dB/km)	≤ 10
Cladding Absorption @ 915 nm (dB/m)	0.55 ± 0.1
Cutoff Wavelength (nm)	950 ± 100
Numerical Aperture - Cladding	Min 0.45
Numerical Aperture - Core	Typ. 0.13

Geometrical & Mechanical

Cladding diameter (μm)	128 ± 3
Cladding geometry	Oct.
Coating Diameter (μm)	260 ± 20
Core Diameter (μm)	Typ. 6.0
Core/Cladding Concentricity Error (μm)	≤ 1
MFD @ 1060nm (μm)	6 ± 1
Proof Test (kpsi)	≤ 100

Environmental

Storage Temperature (°C)	-40 to +85
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