DCF-YB-6/128S

Yb-doped fiber for pulsed lasers

The DCF-YB-6/128S shows excellent photodarkening resistance performance ensuring high reliability and long-term stability. This fiber is designed for single-mode operation and shows high absorption, which is ideal for high-power 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 high-power 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

Cladding Absorption @ 915 nm (dB/m)	0.55 ± 0.10
Cladding Absorption @ 975 nm – Nominal (dB/m)	2.2
Mode Field Diameter @ 1060 nm (µm)	6.0 ± 1.0
Cutoff Wavelenght (nm)	950 ± 100
Numerical Aperture – Core (Typical)	0.13
Numerical Aperture – Cladding	> 0.45
Background loss @1200nm (dB/km)	< 10

Geometrical & Mechanical

Core Diameter (µm)	6 ± 1.0
Cladding Diameter (µm)	128 ± 3
Core/Cladding Concentricity Error (µm)	< 1.0
Cladding Geometry	Octogonal
Coating Diameter (µm)	260 ± 20
Proof Test (kpsi)	≥ 100

ISO 9001:2015 certified quality system | RoHS and REACH compliant.
All specifications are subject to change without notice. Reference: 101-10-0603.R1

2700 Jean-Perrin, suite 121, Quebec QC G2C 1S9 Canada | sales@coractive.com | + 1 418 845-2466