

DCF-YB-20/128P-10-FHA-G2

Yb-doped fiber for pulsed lasers



This phosphosilicate Yb-doped double-clad fiber features high and flattened pump absorption with photodarkening-free performance. This fiber is the ideal solution for a wide range of demanding high peak power pulsed fiber laser and amplifier applications in the industrial and medical markets.

Features & Benefits

- Large core diameter with high pump absorption – allows a shorter fiber length for a more compact and less expensive design while reducing non-linear effects
- Photodarkening-free – ensures stable long-term operation
- Wide, flat absorption from 910 nm to 970 nm – reduces pump cooling requirements and allows 940-960 nm pumping
- Batch-to-batch consistency in beam quality performance

Applications

- High-energy / high peak power pulsed lasers & amplifiers for MOPA configuration
- Laser marking and engraving
- Medical

Related Products

- SCF-UN-20/125-100

Matched passive single-clad fiber

- DCF-UN-20/125-100

Matched passive double-clad fiber

Specifications

Optical

Cladding Absorption @ 915 nm (dB/m)	9 ± 2
Cladding Absorption @ 974 nm (dB/m)	Typ. 54
Numerical Aperture - Cladding	Min 0.45
Numerical Aperture - Core	0.1 ± 0.02

Geometrical & Mechanical

Cladding diameter (µm)	128 ± 3
Cladding geometry	Oct.
Coating Diameter (µm)	260 ± 20
Core Diameter (µm)	20 ± 2
Core/Cladding Concentricity Error (µm)	<= 1.5
Proof Test (kpsi)	>= 100

Environmental

Storage Temperature (°C)	-40 to +85
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DCF-YB-20/128P-10-FHA-G2_R0

ISO 9001:2015 certified quality system - RoHS and REACH compliants.

sales@coractive.com - T. 418 845-2466

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coractive.com