

# DCF-YB-20/128P-08-FA-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)	5.0 ± 0.5
Cladding Absorption @ 975 nm - Nominal (dB/m)	30
Numerical Aperture - Core	0.08 ± 0.01
Numerical Aperture - Cladding	> 0.45

### Geometrical & Mechanical

Core Diameter (µm)	20 ± 2
Cladding Diameter (µm)	128 ± 3
Core/Cladding Concentricity Error (µm)	< 1.5
Cladding Geometry	Octagonal
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: 101-10-0717.R2