DCF-YB-25/400-16
Yb-Doped Fiber – True Phosphosilicate

This Yb-doped phosphosilicate fiber is designed for multimode operation in the 1 µm region. Manufactured under a carefully control process, the refractive index profile and core chemical composition allow high reproducibility. This ensures a reliable batch-to-batch consistency. With its output power of up to 4kW in multimode, this fiber allows the design of laser cavity without being limited by non-linear effects and transverse mode instabilities (TMI). It is ideal for industrial applications requiring high power output.

**Features & Benefits**

- Photodarkening-free – excellent batch-to-batch consistency
- Multimode operation – no limitations caused by nonlinear effects and transverse mode instabilities (TMI)
- High fiber laser efficiency (> 70%)
- High stability against pump wavelengths between 915 nm to 970 nm
- Output power up to 4 kW in a single cavity

**Applications**

- High-power CW fiber lasers
- Material processing: cutting and welding

**Related Products**

- DCF-UN-25/400-16
  Matched passive double-clad fiber

**Specifications**

**Optical**

- Cladding Absorption @ 915 nm (dB/m) 0.50 ± 0.10
- Numerical Aperture - Core 0.17 ± 0.01
- Numerical Aperture - Cladding > 0.46
- Background Loss @ 1200 nm (dB/km) < 10.0

**Geometrical & Mechanical**

- Core Diameter (µm) 25.0 ± 1.0
- Cladding Diameter - Flat-to-Flat (µm) 400 ± 15
- Core/Cladding Concentricity Error (µm) < 2.5
- Cladding Geometry Octogonal
- Coating Diameter (µm) 560 ± 20
- Proof Test (kpsi) ≥ 100

ISO 9001:2015 certified quality system | RoHS and REACH compliant. All specifications are subject to change without notice.

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