

# 1407 Doped Fiber

DF1004



## Yb1200-10-125DC

Yb1200-10/125 fibers are very highly doped large mode area fibers for medium power fiber laser and amplifier applications. The combination of high cladding absorption, low photodarkening loss and high beam quality makes them ideal for compact fiber based power amplifiers. Yb1200-10/125 fibers are available as double-clad (Yb1200-10/125DC) and double-clad polarization maintaining (Yb1200-10/125DC-PM) fibers.

### FEATURES

- Direct Nanoparticle Deposition
- Superior Predictability of Fiber Performance and min. Splice Loss
- High Pump Absorption with Low Photodarkening Loss
- Tightened Cladding Geometries in PM Fiber Version for Better Connectivity
- Proven to Operate Up to 150 °C and in Extreme Humidity

### USE IN

- Medium Power Amplifiers and Lasers
- Pulsed and CW Applications
- IR Source for Frequency Doubling
- Industrial, Medical and Scientific Applications

Peak Core Absorption @ 976 nm (Nominal)	7.4 dB/m
Cladding Absorption @ 920 nm	1.7±0.3 dB/m
Core Numerical Aperture (RealNA)	0.080±0.005
Cladding Numerical Aperture	0.48 min.
Core Background Loss at 1200 nm	25 dB/km max.
Birefringence, PM	1.4 1E-04 min.
Core Diameter	10.0±1.0 µm
Core Concentricity Error	1.0 µm max.
Cladding Diameter (Flat-to-Flat)	125.0±2.0 µm
Cladding Geometry	Octagonal, Panda for PM
Coating Diameter	245.0±15.0
Coating Material	Dual Coated Low Index Acrylate
Proof Test	100 kpsi min.