



Yb250-6-PM

High absorption single clad Yb-doped PM-fiber

A highly absorbing, polarization-maintaining (PM), Yb-doped single-clad fiber with a small mode field diameter is well-suited for applications that demand efficient pump light absorption within a compact length and stable polarization control.

Features & Benefits

- Efficient pump absorption over compact length
- Single-clad structure for core pumping
- Low risk of lasing or parasitic amplification
- Stable linear polarization for sensitive optical systems
- Minimizes nonlinear effects and thermal load
- Compact integration in fiber-based setups

Applications

- Polarized ASE sources
- Interferometry
- Pump dump in mode-locked or ultrafast PM laser cavities
- Broadband polarized light sources for sensing and metrology
- Optical load / termination in PM systems
- Fiber optic gyroscopes

Related Products

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Specifications

Optical

Background Loss @1200 nm (dB/km)	<= 10
Birefringence (x10E-04)	≥ 2.2
Core Absorption @ 915 nm (dB/m)	250 ± 50
Cutoff Wavelength (nm)	≤ 950

Geometrical & Mechanical

Cladding diameter (µm)	125 ± 1
Coating Diameter (µm)	250 ± 10
Core/Cladding Concentricity Error (µm)	≤ 1
MFD @ 1060nm (µm)	6 ± 1
Proof Test (kpsi)	<=100

Environmental

Storage Temperature (°C)	-40 to +85
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