

YB 401-PM

Polarization-maintaining ytterbium-doped fiber



Developed by our key partner INO, this Yb-doped single-clad PM fiber features high efficiency, high birefringence and photodarkening resistance. These typical requirements bring versatility in the design of pulsed fiber lasers and amplifiers for a wide range of applications.

Features & Benefits

- Photodarkening resistance
- High birefringence
- Matched industry standard PM980 fibers
- Low background losses
- High quantum conversion efficiency – lowers pump power requirements, reducing overall system costs

Applications

- Pulsed lasers and amplifiers
- Ultrafast fiber lasers
- Second harmonic generation
- LiDAR
- Medical
- Scientific

Related Products

- [YB 401](#)
Ytterbium-doped single-clad fiber

Specifications

Optical

Core Absorption @ 915 nm (dB/m)	140 ± 25
Numerical Aperture - Core	0.14 ± 0.02
Cutoff Wavelength (nm)	850 ± 50
Mode Field Diameter @ 1060 nm (µm) - Nominal	6.0
Birefringence	≥ 3.0E-4

Geometrical & Mechanical

Core Diameter - Nominal (µm)	5.0
Cladding Diameter (µm)	125.0 ± 1.0
Core/Cladding Concentricity Error (µm)	≤ 1.0
Coating Diameter (µm)	250 ± 10
Proof Test (kpsi)	≥ 100