



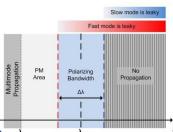
light.augmented with IXF-PZG-780-125

POLARIZING OPTICAL FIBER for applications at 780 nm

APPLICATIONS: All-Fiber Polarizers; Fiber Lasers; Single-Frequency Laser Transmission; Interferometry; Fiber Pigtails; Fiber Delay Lines

How it works? -

A Polarizing Fiber selectively attenuates the light propagating along one polarization axis (Fast Axis) and preserves only the polarized light along the other principal axis (Slow Axis).



Transmission spectra showing two separate cut-offs for the polarization modes in the fast and slow axes at different spectral positions.

Design wavelength (λορ)

Wavelength at which the fiber is typically used

Polarizing Bandwidth (Δλ)

- > 20 dB short wavelength edge
- < 1 dB long wavelength edge

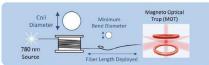
(dBm)	PM Area	Polarizing Bandwidth	, unio
20 dB			
		λop	

PZ Fiber Transmission

SPECIFICATIONS

Typical Polarization Performance		Other Specifications	
Operational Wavelength (nm)	780	Design	Tiger
Polarizing Bandwidth (nm)	> 50	MFD (μm) @1064 nm	5.5 ±1
Extinction Ratio (dB) @1064 nm	> 30	Cladding Diameter (µm)	125 ±1
Attenuation (dB/m) @1064 nm	< 0.02	Minimum Bend Diameter (cm)	> 2

The deployment of the PZG fiber is key to its performance. Usage example: Single-Frequency Laser Transmission



Configuration example:

- - Deport lengths: 3 m one side, 1 m other side
 - Protective jacket: Ø3 mm cable with Kevlar strain-relief
 - Connectors FC/APC at both ends

720 740 760 780 Wavelength (nm) → According to your needs and your constraints, we have a Polarizing Solution!

9

-10

-20

-30

Normalized Transmission

Available on request: Connectorization FC/APC & SC/APC (PER>30 dB); LSZH Up-jacketing 2.5 mm; Coil Packaging

OTHER POLARIZING WAVELENGTHS AVAILABLE



K

795 nm 1064 nm



830 nm 1310 nm 1550 nm

Fast Axis Slow Axis

895 & 852 nm 770 & 767 nm

670 nm

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