

POLARIZER

IXS-POL-840-80

PZ Fiber-Based Polarizer

Contrary to In-line Polarizers, the PZ fiber-based polarizer is an All-Fiber solution offering superior polarization extinction ratio, low loss and excellent stability over temperature.

An all-fiber polarizer IXS-POL is a polarizing fiber with the optimal length coiled at the appropriate diameter to operate at the operational wavelength.

Exail also offers customized solutions including connectors, various packages, patch-cords and cables.



Benefits & Features

- Polarizing wavelengths available: 780, 840, 980, 1060, 1310 or 1550 nm
- Fiber diameter: 80 or 125 μm
- Tiger design
- > 100 nm polarizing window
- > 30 dB extinction ratio

Applications

- Quantum optics, cold atoms
- All-Fiber polarizer
- Fiber optics current sensors and gyros

Parameters

20 dB fast edge* (nm)	< 790
3 dB slow edge* (nm)	> 890
Extinction ratio (dB)	< -30
Attenuation @780nm (dB/km)	< 20
Mode field diameter @780nm (μm)	6 ± 2
Numerical aperture	0.11 ± 0.01
Core/Clad concentricity (μm)	< 1
Cladding diameter (μm)	80 ± 2
Coating diameter (μm)	170 ± 5
Proof test level (kpsi)	100

Design parameters

Operating wavelength (nm)	840
Design	Tiger
Core shape	Round
Coating material	Dual acrylate
Operating temperature range ($^{\circ}\text{C}$)	-40 to +85

Comments:

**Typical polarization performance with deployment conditions of 5m length in a 80mm coil.*

Exail reserves the right to change, at any time and without notice, the specifications, design, function or form of its products described herein.

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