

In-Line Fiber Optic Polarizer

Birefringent-crystal-clad tapered-fiber in-line polarizer with low insertion loss and high extinction ratio



PRODUCT OVERVIEW

Maxer Photonics' in-line polarizer is a new-concept fiber optic device in which a birefringent crystal clads a tapered section of fiber. The construction provides a compact, low-loss, all-fiber solution for producing a well-defined, high-purity state of linear polarization.

KEY FEATURES

- Low insertion loss
- High return loss
- High extinction ratio

APPLICATIONS

- Laboratory
- PM test systems

SPECIFICATIONS

T = 23°C unless otherwise noted

PARAMETER	VALUE	UNIT
Operating Wavelength	850, 1310 or 1550	nm
Bandwidth	30 or wider upon request	nm
Insertion Loss at 23°C	≤ 0.8	dB
Extinction Ratio at 23°C	≥ 38	dB
Optical Power	≤ 300	mW
Return Loss	≥ 50	dB
Operating Temperature	-5 to +70	°C
Storage Temperature	-40 to +85	°C
Dimensions	Φ5.5 × L35	mm

ORDERING INFORMATION

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OPERATING WAVELENGTH	TRAVEL AXIS	FIBER TYPE	FIBER DIAMETER	FIBER LENGTH	CONNECTOR
13 : 1310 nm	F : Fast blocked	PP : PMF-PMF	2 : 250µm	1 : 0.8 m	0 : Bare Fiber
15 : 1550 nm	S : Slow blocked	SP : SMF-PMF	9 : 900µm	2 : 1.0 m	FA : FC/APC
X : XX	—	SS : SMF-SMF	2 : 2.0mm	X : XX	SA : SC/APC