

PASSIVE COMPONENTS

1xN PM PLC Splitter

Polarization-maintaining PLC splitter in 1xN and 2xN configurations at 1310 and 1550 nm.



Key Features

- Polarization-maintaining construction throughout
- 1xN configurations from 1x2 to 1x16, plus 2xN
- Operates at 1310 nm and 1550 nm
- Insertion loss 4.5 dB at 1x2, 14.5 dB at 1x16

Applications

- Interferometric fiber sensor arrays
- Fiber gyroscope subassemblies
- Coherent system signal distribution
- Polarization-sensitive test setups

Overview

The polarization-maintaining version of our PLC splitter, available in 1x2 through 1x16 and 2x2 through 2x16 configurations at 1310 nm and 1550 nm.

Holding polarization through a splitter is harder than holding it through a straight path, because every branch has to preserve the same axis alignment. It matters in interferometric sensing arrays, where each arm must return light in a known state for the interference to be meaningful. Insertion loss runs from 4.5 dB at 1x2 to 14.5 dB at 1x16.

Specifications

Optical Performance

PARAMETER	VALUE	UNIT	CONDITIONS
Number of Channels	1x2, 1x3, 1x4, 1x8, 1x16, 2x2, 2x4, 2x8, 2x16		
Operating Wavelength	1310 / 1550	nm	
Insertion Loss	4.5 – 14.5	dB	4.5 dB at 1x2, 14.5 dB at 1x16

Order or request a quote

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Datasheet issued 2026-09-06

Rev. controlled document

Specifications are subject to change without notice and do not constitute a warranty. Confirm all parameters with Lightwit Photonics sales before ordering.