

OPTICAL CIRCUIT SWITCHES

PM 1x1 Mechanical Optical Switch

Polarization-maintaining 1x1 on/off switch covering 1260 nm to 1650 nm with 20 dB extinction ratio.



Key Features

- Polarization-maintaining construction
- Extinction ratio ≥ 20 dB
- Wide 1260 nm to 1650 nm coverage
- Insertion loss ≤ 0.8 dB
- 3 V or 5 V low-voltage control

Applications

- Gating polarization-sensitive optical paths
- Coherent and interferometric test setups
- Fiber sensor interrogator switching
- Laboratory optical path control

Overview

A 1x1 switch is an optical gate: it either passes the path or blocks it. This one is built with polarization-maintaining fiber throughout, so light that does pass keeps its launch polarization, with an extinction ratio of 20 dB or better.

Coverage runs from 1260 nm to 1650 nm at 0.8 dB insertion loss, under 3 V or 5 V control.

Specifications

Optical Performance

PARAMETER	VALUE	UNIT
Number of Channels	1 x 1	
Operating Wavelength	1260 – 1650	nm
Insertion Loss	≤ 0.8	dB
Extinction Ratio	≥ 20	dB

Electrical

PARAMETER	VALUE
Operating Voltage	3 V or 5 V

Order or request a quote

+1 (619) 500-4899 · sales@lightwitphotonics.com

lightwitphotonics.com

Monday–Friday, 8:00 AM – 6:00 PM Pacific

Lightwit Photonics Co., Ltd.

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.