

OPTICAL CIRCUIT SWITCHES

2x2 Mechanical Optical Switch

Low-loss 2x2 bypass switch, latching or non-latching, for single-mode and multimode fiber.



Key Features

- Insertion loss ≤ 0.8 dB
- Latching or non-latching, specified at order
- Single-mode 1260 nm to 1620 nm, or multimode 850 nm
- Strong crosstalk suppression
- 3 V or 5 V low-voltage control
- Compact package

Applications

- Optical path switching and route selection
- Network protection and redundancy switching
- Fiber monitoring and remote test access
- Automated test and measurement equipment

Overview

The 2x2 is the standard bypass and cross-connect element: two inputs and two outputs that either pass straight through or cross over. Insertion loss is 0.8 dB or better, low enough to sit in a working path rather than only on a test bench.

Latching and non-latching versions are both available. A latching switch holds its state with no power, which suits a protection path that must survive a power interruption in whatever position it was left; a non-latching switch reverts to a default, which suits a fail-safe design. Single-mode covers 1260 nm to 1620 nm; a multimode version operates at 850 nm.

Specifications

Optical Performance

PARAMETER	VALUE	UNIT	CONDITIONS
Number of Channels	2 x 2		Latching or non-latching
Insertion Loss	≤ 0.8	dB	
Operating Wavelength	1260 – 1620	nm	Single-mode
Operating Wavelength	850	nm	Multimode

Electrical

PARAMETER	VALUE
Operating Voltage	3 V or 5 V

Order or request a quote

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