

Optical Switch Polarisation Maintaining 1x2 • 1x4 • 1x8 • 1x12 • 1x16

The fiber optical switches are based on a propriatory micro-mechanical / micro optical design. This guarantees superior properties, wide flexibility for many applications and highest long term reliability.

The switches are available for broad wavelength ranges from the visible to the infrared and with various fiber types including PM fibers.

Optical Features

- Low insertion loss
- Low PDL
- Excellent repeatability
- High optical isolation
- Ultra low back reflection
- Broad spectral ranges
- Short switching times up to 2.0 ms

Package Highlights

- Compact rugged metal housing
- Flexible housing options available (compact with pigtails; table top or 19" rack mounts)
- In house optical connectorization
- Low power consumption
- Integrated microcontroller with several electrical interfaces servers for flexible switch control options

Reliability

- Excellent long term reliability: > 10⁸ switching cycles
- Compliant with Telcordia GR 1073

Applications and Technology

The PM series has been developed to serve for the most demanding applications in telecommunication, testing and measurement. Some examples for highly sophisticated applications are laser scan microscopy, multi-channel optical power monitoring, fiber bragg grating sensors, testing of fiberoptical transmission lines, environmental trace analysis.

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1

Optical Switch Polarisation Maintaining $1x2 \cdot 1x4 \cdot 1x8 \cdot 1x12 \cdot 1x16$



Switch Version	IR	NIR	VIS
Operating Wavelength [nm]	1260 - 1360 1480 - 1630	600 - 850 900 - 1200	400 - 670
Insertion loss max. (typ.) [dB]	1.4 (0.9)		
Return loss [dB]	≥ 65	≥ 55	≥ 55
Crosstalk [dB]	≥ 55		
Repeatability [dB]	≤ 0.01		
Polarization dependent loss [dB]	20 (25)	20 (22)	18 (22)
Switching time [ms]	< 2		
Guaranteed lifetime [cycles]	> 108		
Switching frequencies [s ⁻¹]	< 50		
Operating voltage [V]	5		
Power consumption [mW]	< 450		
Operating temperature [°C]	0 to +60		
Storage temperature [°C]	-40 to +80		
Housing dimensions [mm]	standard small (75x50x13) or standard large (124x56x13)		

For Requests Please Specify:

- Number of channels
- Spectral range Optical power (max.)

Fiber type

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Pigtail length

[1x2, 1x4, 1x8, 1x12 or 1x16] operating wavelength range

- high power versions available up to 1 W
- [e.g. Corning SMF 28 Type]
- Connector type(s)
- Electronic interface
- Special requirements

[in meter]

- [e.g. LC, FC, SC, ST, E2000]
 - [e.g. TTL, RS 232, I²C, Ethernet]

To request for a quotation or to obtain additional information please contact us.

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