

0507 MEMS Optical Switch

Q1202-S



1x4 MEMS Optical Switch

The 1x4 fiber optic switch connects optical channels by redirecting incoming optical signals into selected output fibers. It features rugged thermal activated micro-mirror movements instead of rotation, and latches to preserve the selected optical path after the drive signal has been removed. That reduces packaging requirement, simplifies driving electronics, offering high stability as well as low cost.

FEATURES

- High Reliability
- Latching
- Intrinsic Tolerance to ESD

USE IN

- Channel Blocking
- Configurable Add/Drop
- System Monitoring
- Instrumentation

Wavelength Range	1260 nm to 1620 nm
Testing Wavelength	1310 nm/1490 nm/1550 nm/1625 nm/1650 nm
Insertion Loss	0.7 dB typ.; 1.2 dB max.
Return Loss	50 dB min.
Crosstalk	50 dB min.
PDL	0.10 dB max.
WDL	0.25 dB max.
TDL	0.20 dB max.
Repeatability	±0.05 dB max.
Repeatability Rate	20 Hz
Lifetime	10 ⁹ Cycle min.
Switch Time	5 ms max.
Transmission Power	500 mW max.
Operation Temperature	-5°C to +70°C
Storage Temperature	-40°C to +85°C
Switching Type	Latching
Dimension	26x22x9.4(±0.2) mm

Order notes to our customers: The default parameters are as follows. For special needs, please contact sales.

1) Connector FC/APC, 900 um, 1 m by default for all devices except for high power devices.

2) Slow axis working, fast axis blocked, connector key is aligned to slow axis by default for PM devices.

0507 MEMS Optical Switch

Q1202-S

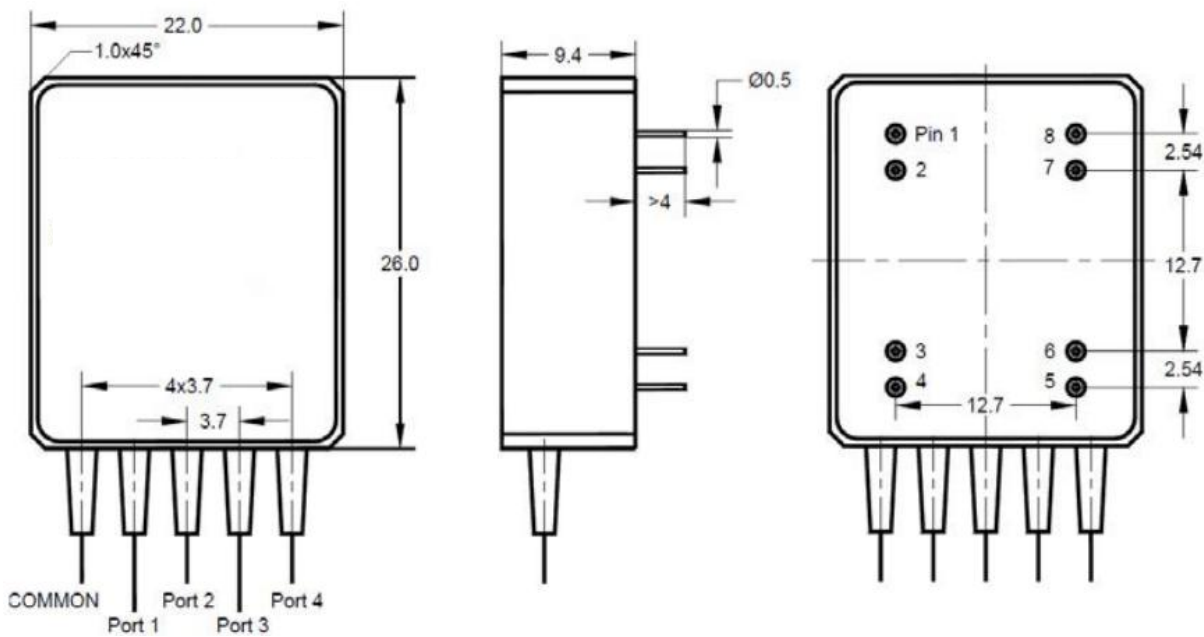


MECHANICAL DIAGRAM

Optical Path	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Comm ↔ Port 1	DP	NC	NC	DP	NC	DP	GND	
Comm ↔ Port 2	NC	DP	DP	NC	NC	DP		
Comm ↔ Port 3	NC	DP	NC	DP	DP	NC		
Comm ↔ Port 4	NC	DP	NC	DP	NC	DP		

* DP: Driving Pulse Voltage.

Driving Pulse Voltage	9.3 V typ.; 9 V min.; 9.5 V max.
Driving Pulse Width	12.5 ms typ.; 12 ms min.; 13 ms max.
Peak Current	290 mA typ.



Unit: mm

Order notes to our customers: The default parameters are as follows. For special needs, please contact sales.
1) Connector FC/APC, 900 um, 1 m by default for all devices except for high power devices.
2) Slow axis working, fast axis blocked, connector key is aligned to slow axis by default for PM devices.