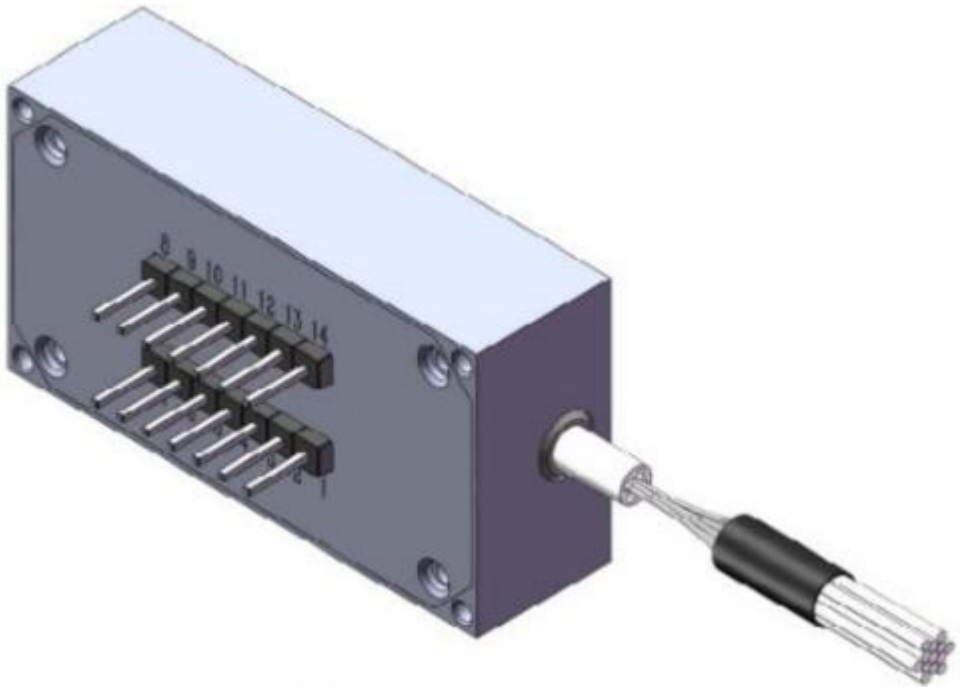
MEMS 1x32 Optical Switch (Module Package)



Product Description

Idealphotonics' MEMS 1x32 optical switch is an optical switch based on MEMS (micro-electromechanical system) technology that allows channel selection between a single input light and 32 output lights. It has the characteristics of small size, long life and stable reliability, and is widely used in optical network fields such as OADM and OXC.

Part Number

MEMS-1X32-SA

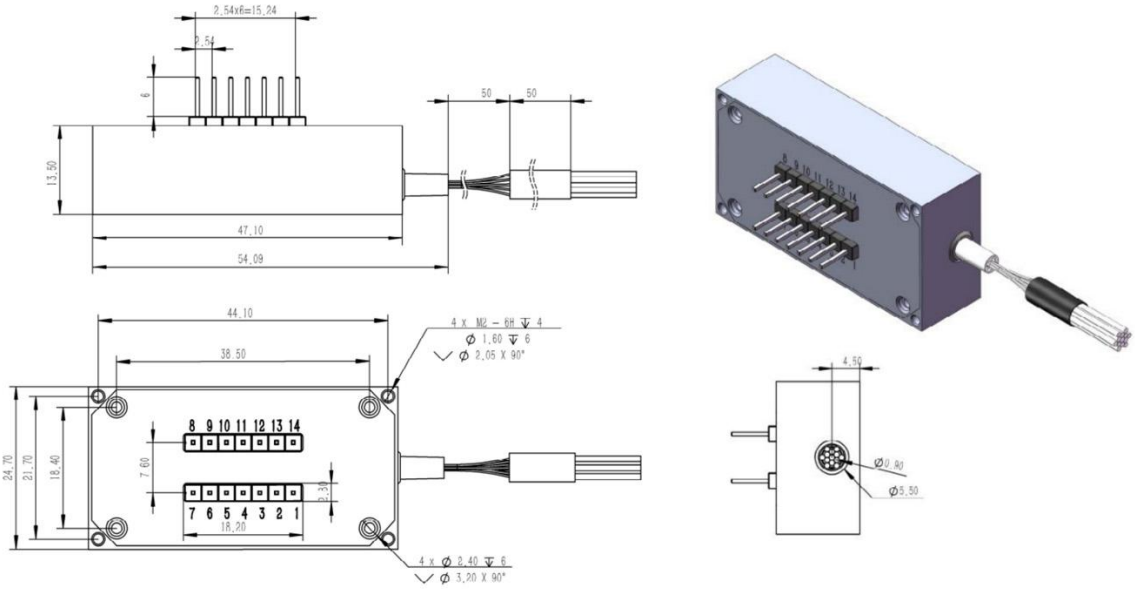
Product features

Small size、 High repeatability and good stability、 I 2 C parallel or RS232 serial control interface 、 Complies with GR-1073, GR-1209 and GR-122 standards

Application area

Optical network monitoring、 Data Center、 Fiber Optic Sensing

Dimensional Drawing



(Units: mm)

Main Specifications

Parameter	Unit	SM
Number of channels	CH	32
Wavelength	nm	532±20
Insertion Loss(Max) IL	dB	≤3.5 (including head)
Return loss RL	dB	≥35
Repeatability	dB	≤0.05
Crosstalk	dB	≥35
Polarization Dependent Loss PDL	dB	≤0.15
Wavelength Dependent Loss WDL	dB	≤0.3@CWL±30nm, 23℃
Temperature Dependent Loss TDL	dB	≤0.3
Operating temperature	℃	-5~70
Storage temperature	℃	-40~85
Switching response time	ms	≤20
Life	Cycle	≥1×10 9
Driving voltage	V	5~12V
Fiber Type	--	G657A1, G657A2
Casing Type	--	0.9mm
Fiber length	--	1m±0.05m (excluding head)
Connector Type	--	FC/APC
Port Control Type	TTL (parallel and serial ports)	

Note:

1. The above test loss (IL) is based on the test results at 23° C.
2. Repeatability data is based on 100 cycle repeated test results.