

OSW-1×36 SM Rack-mounted Optical Switch

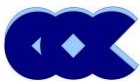
■ Application Areas

1. **Automated Testing Systems:** Used in high-volume production testing to automatically switch test light sources or instruments to multiple devices under test, improving efficiency.
2. **Optical Network Monitoring and Protection:** In fiber optic communication systems, enables monitoring of multiple fiber channels, or performs optical path protection switching in networks such as Ethernet.
3. **Laboratory and Research:** Used in testing and research systems for optical fibers, optical devices, and optical cables, enabling multi-point measurement and switching of light sources/detectors.
4. **Optical Network Infrastructure:** Used in systems such as Reconfigurable Optical Add-Drop Multiplexers (ROADM) and Optical Cross-Connects (OXC) for dynamic optical path configuration.

■ Product Features

1. **Rack-mounted Installation:** Standard dimensions for easy installation in 19-inch cabinets, high integration, directly low-voltage driven.
2. **High-Performance Optical Specifications:** Typically feature low insertion loss (e.g., $\leq 1.6\text{dB}@1\times 64$), high channel isolation (crosstalk $>60\text{dB}$), and high return loss ($>50\text{dB}$), ensuring signal quality. Fail-safe lock, robust, and cost-effective.
3. **High Reliability and Stability:** Key components use high-quality elements, modular design, high repeatability (e.g., $\pm 0.05\text{dB}$), and long lifespan (over 1 million cycles).
4. **Flexible Control and Interfaces:** Supports front panel key control, RS-232 remote control, and some models support Ethernet/USB control, enabling complex functions like polling and matrix switching.





■ Performance Specifications

Optical Performance/光学性能			Specification
Operation Wavelength/工作波长		nm	1310 1550
Insertion Loss /插入损耗	Typ	dB	<1.0
Polarization Dependent Loss/偏振相关损耗	max	dB	0.05
Wavelength Dependent Loss/波长相关损耗	max	dB	0.20
Temperature Dependent Loss/温度相关损耗	max	dB	0.20
Repeatability/重复性	max	dB	0.01
Return Loss/回波损耗	min	dB	55
Cross-talk/串扰	min	dB	60
Lifetime/使用寿命			10 9
Switching time/开关时间		ms	12
Transmission power/传输光功率	max	mw	500
Switch Mode/控制方式			DB9 Female Connector
Power supply/驱动电压		V	Single Power Supply 220V
Fiber Type/光纤类型			9/125
Dimensions/尺寸		mm	1U
Operating Temperature/工作温度		oC	-20~70
Storage Temperature/储存温度		oC	-40~85
Baking (Temperature / Duration)/烘烤 (温度/持	C / Hr		+85°C/48Hr
Temperature Cycling (Temperature Range /	C / Hr		-40°C to +85°C/48Hr
Package Dimension/外包装尺寸		mm	345×285×72

■ 订货信息：OSW-A-B-C-D-E-F

A	B	C	D	E	F
Chanel	Fiber	Wavelength	Shape	Power	Connector
1 ~ 128	SM: SM, 9/125 M5: MM, 50/125 M6: MM, 62.5/125	850: 850nm 1310: 1310nm 1550: 1550nm 13/15: 1310/1550nm	1U: 1U 19 2U: 2U 19 4U: 4U 19	S22: Single 220V S48: Single 48V D22: Double 220V D48: Double 48V S24: 220V+48V	00: None FP: FC/IPC FA: FC/APC SP: SC/PC SA: SC/APC LP: LC/PC LA: LC/APC