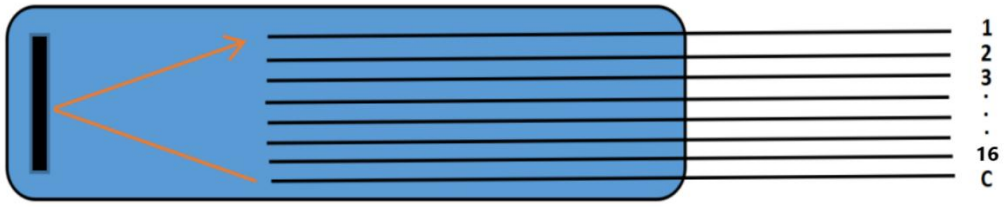
MEMS OSW Specification

MSOSW-116-12/16-09-1.0-N-S-FC/APC-M

MEMS OSW is based on micro-electro-mechanical system (MEMS) technology, which achieved low insertion loss and highly repeatability by rotating the mirror of MEMS chip, is mainly used in optical cross and connection (OXC) system, measure instrument system and optical signal monitoring system.
The products are Telcordia GR-1073-CORE qualified, and RoHS compliant.

PRODUCT CONFIGURATIONS



Note: "C": common port, "1、2、3...16":possible selected output ports=1~16;

OPTIC SPECIFICATION

Parameters		Unit	Value	Notes
Wavelength		nm	1260~1650	
Insertion Loss	1*16	dB	≤1.4	@CWL,23°C, Without Connectors
Return Loss		dB	≥45	
Repeatability		dB	≤0.1	
Crosstalk		dB	≥45	
Polarization Dependence Loss		dB	≤0.2	
Wavelength Dependence Loss		dB	≤0.3	1525~1568nm
		dB	≤1.0	1260~1650nm
Temperature Dependence Loss		dB	≤0.4	
Switch Time		ms	≤20	
Durability		cycle	≥1x10^9	
Maximum optical Power		mW	≤500	
Switch Mode			Non-latching	
Control Voltage		V	5~12	

OPERATING AND STORAGE CONDITIONS

PARAMETER	SPECIFICATION	UNITS	NOTE
Operation Temperature	-5~70	℃	
Storage Temperature	-40~85	℃	
Operation Humidity	5~95	%RH	
Storage Humidity	5~95	%RH	

PIGTAIL AND CONNECTOR

PARAMETER	SPECIFICATION	UNITS	NOTE
Fiber Type	G657A2 250um bare fiber		
Fiber Pigtail(All Ports)	900um		
Fiber Length(All Ports) (customer specify）	1.00±0.05（customer specify）	m	with connector length
Optical Connector (All port)	FC-APC		
Dimension	Φ47.1×24.7×13.5	mm	

ORDERING INFORMATION

MSOSW-①-②-③-④-⑤-⑥-⑦

① 通道数 Channel	② 波长范围 Wavelength Range	③ 光纤规格 Fiber Dia.	④ 光纤长度 Fiber length	⑤ 开关方式 Switch Mode	⑥ 产品类型 Product type	⑦ 连接器 Connector	⑧ 封装类型 Pakage type
14: 1*4 **16:** 1*6 **18:**1*8 **116:**1*16 **N:**Other	**131:**1260-1330nm **155:**1525-1568nm Or Customer Specify	**025:** 0.25mm **09:** 0.9mm (For Modules)	**1:**1m Or customer Specify	**N:**Non-latching	**S:**singel mode **M:**multimode	**00:**no connectors Or customer Specify	**C:**Cylindric Device **CP:**Cylindric Packagewith PCB **M:**TTL/RS232/I²C Module Interface

Note: The MEMS OSW are ESD-Sensitive devices. Please insure that proper ESD handing procedures are followed.