



MEMS Optical Switch Module (<64ch)

Features	
Low Insertion Loss	
Fast Switch time	
Compact package	
Application	
Fiber monitoring(working with OTDR or OCM))	
Optical network routing	
Fiber sensing	
Optical network protection and restoration	

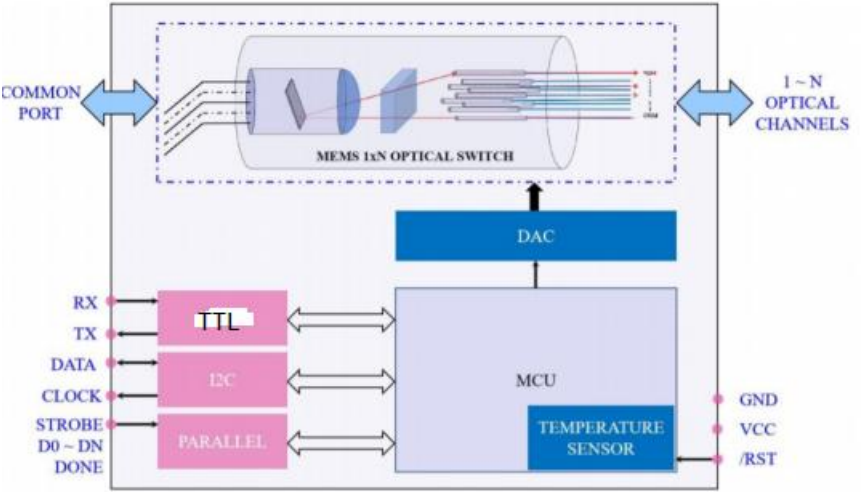
Specifications

SPEC	Value							
Channel	2	4	8	12	16	24	32	64
Wavelength (nm)	1310±30 or 1550±30 or 1625±30							
Insertion Loss(dB)	0.7	0.7	0.8	1	1	1.2	1.4	1.8
Return Loss (dB)	≥50							
Repeatability (dB)								
Cross Talk(dB)	≥50						≥45	
PDL (dB)	≤0.15							
WDL(dB)	≤0.3							
TDL(dB)	≤0.3							
Fiber Type	G657A2 SM fiber							
Operation Temperature(°C)	-5~70							
Storage Temperature °C	-40~85							
Switch Time (ms)	≤20							
Durability (cycle)	≥1×10 ⁹							

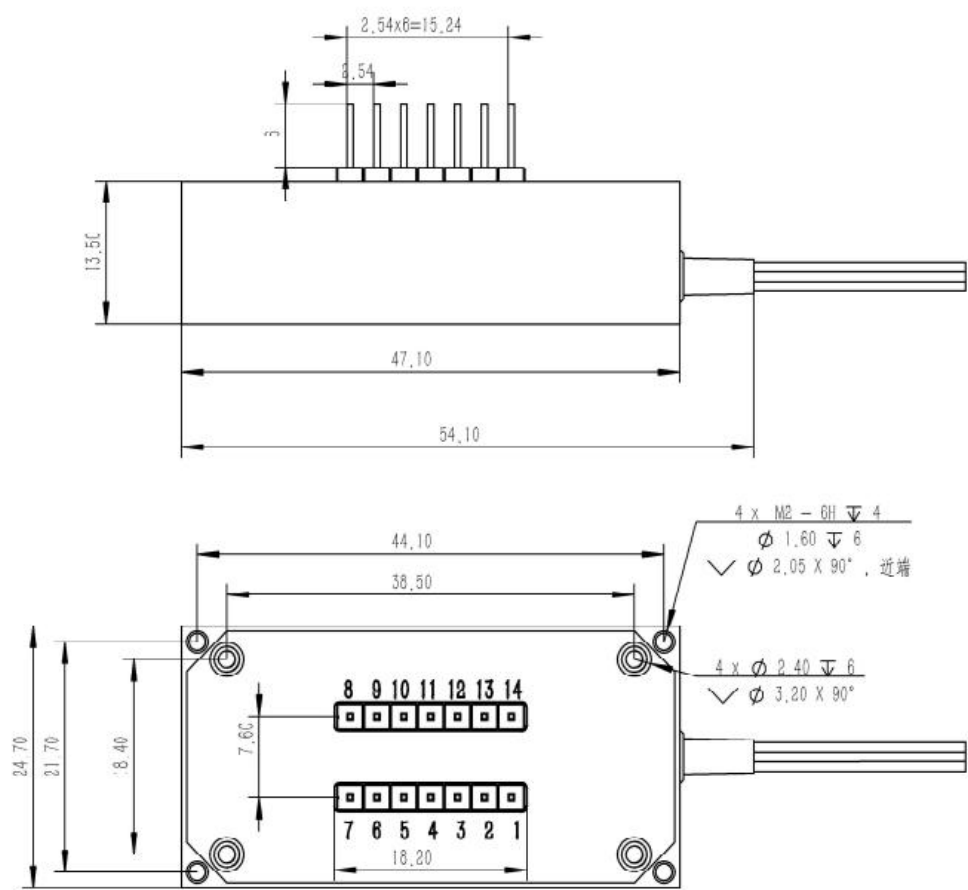
Electrical and Mechanical Specifications

PARAMETER	VALUE
Switch Mode	Non-latching
Control Voltage (V)	5±0.25
Control Type	TTL or TTL/RS232 or TTL/I2C
Dimension (Module) (mm)	47x24.7x13.50 (Module)

FUNCTIONAL BLOCK DIAGRAM

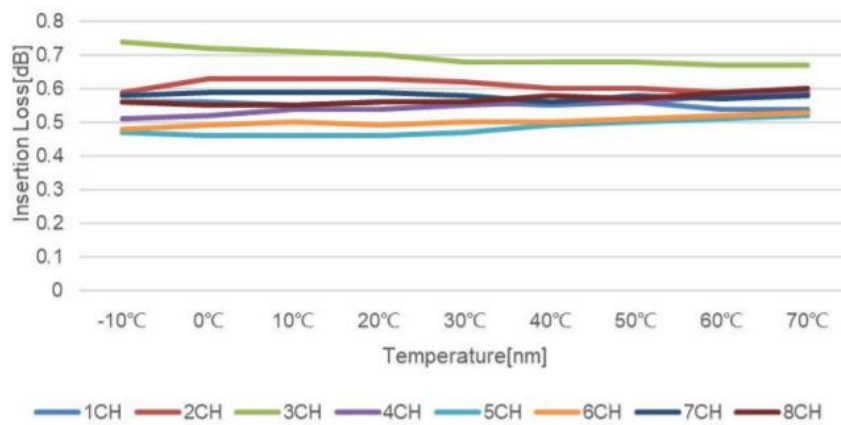


Drawing

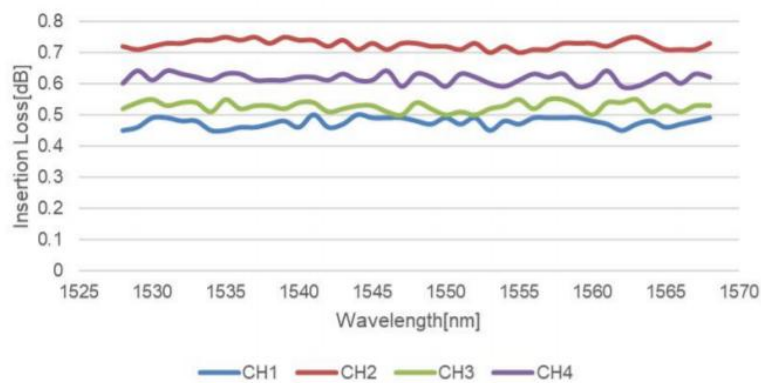


Optical Performance Chart

INSERTION LOSS vs. TEMPERATURE (1x8)



WAVELENGTH DEPENDENT LOSS (1x4)



Ordering information

MS W	Port	Wavelength	Pigtail Type	Fiber Type	Length	Connector
	02=1x2 08=1x8 12=1x12 16=1x16 64=1x64	15=1550nm 13=1310nm	1=900um loose tube	1=G657 A1	1= 1m	NE=None FA=FC/APC FC=FC/UPC SA=SC/APC SC=SC/UPC LC=LC/UPC XX=Other