









Features



-  Modular Design
-  Non-Blocking Switching
-  “any-to-any” switch
-  High Reliability and stability

Application

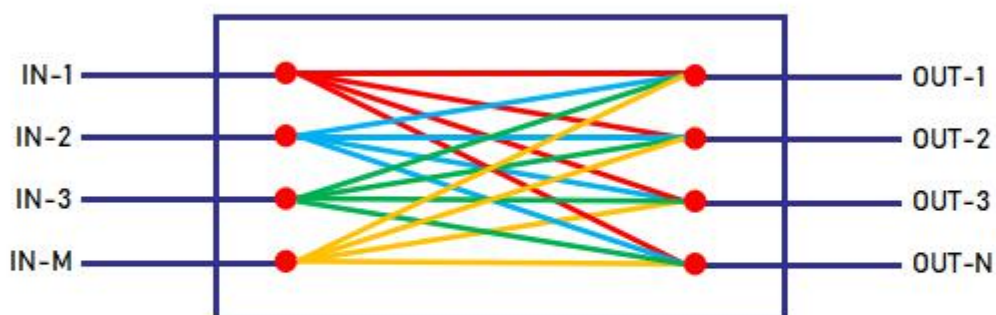
-  OADM
-  OXC
-  Data Center
-  Instrumentation



Compliance

-  Telcordia GR-1221
-  Telcordia GR-1073

Optical Route





Specifications

Single Mode

Parameters	Unit	MEMS M×N-SM	
Working Wavelength	nm	O/C/L/L+ band	
Testing Wavelength	nm	1310/1550/1625/1650	
Insertion Loss	dB	@CWL Single-band	@CWL Dual-band
		≤1.6 (M≤8, N≤8)	≤2.0 (M≤8, N≤8)
		≤2.0 (M≤16, N≤16)	≤2.4 (M≤16, N≤16)
		≤2.6 (M≤32, N≤32)	≤3.0 (M≤32, N≤32)
		≤3.0 (M≤64, N≤64)	≤3.4 (M≤64, N≤64)
WDL	dB	≤0.6	
PDL	dB	≤0.3	
Return Loss	dB	≥45	
Crosstalk	dB	≥50	
Repeatability	dB	≤±0.1	
Switching Time	ms	≤15	
Durability	times	≥10 ⁹	
Input Optical Power	mW	≤500	
Operating Voltage	V	DC 5V±10%	
Operating Current	A	≤0.5 (M+N≤16)	
		≤0.8 (M+N≤32)	
		≤2.0 (M+N≤64)	
		≤4.0 (M+N≤128)	
Operating Temp.	°C	-5 ~ +75	
Storage Temp.	°C	-40 ~ +85	
Dimension	mm	M5: 110×141×12mm (M+N≤16) M6: 200×180×18 ±0.2 (M+N≤32) customization: 32<M+N≤128	

1. Within operating temperature and all SOP.
2. Excluding connector.
3. WDL is measured in a ±20nm range at 23°C.



Multi-Mode

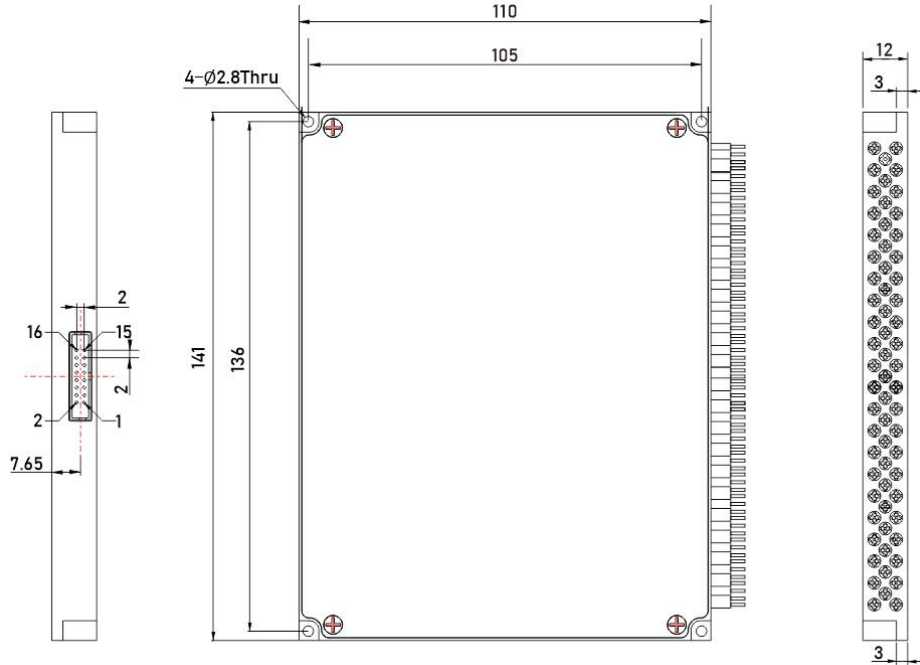
Parameters	Unit	MEMS M×N-MM	
Working Wavelength	nm	850±30, 1310±30	
Testing Wavelength	nm	850/1310	
Insertion Loss	dB	@CWL Single-band	@CWL Dual-band
		≤1.6 (M≤12, N≤12) ≤2.0 (M≤16, N≤16)	≤2.0 (M≤12, N≤12) ≤2.4 (M≤16, N≤16)
WDL	dB	≤0.6	
PDL	dB	≤0.4	
Return Loss	dB	≥30	
Crosstalk	dB	≥30	
Repeatability	dB	≤±0.1	
Switching Time	ms	≤15	
Durability	times	≥10 ⁹	
Input Optical Power	mW	≤500	
Operating Voltage	V	DC 5V±10%	
Operating Current	A	≤0.5 (M+N≤16)	
		≤0.8 (M+N≤32)	
Operating Temp.	°C	-5 ~ +70	
Storage Temp.	°C	-40 ~ +85	
Dimension	mm	M5: 110×141×12mm(M+N≤16)	
		M6: 200×180×18 ±0.2 (M+N≤32)	

1. Within operating temperature and all SOP.
2. Excluding connector.
3. WDL is measured in a ±20nm range at 23°C.

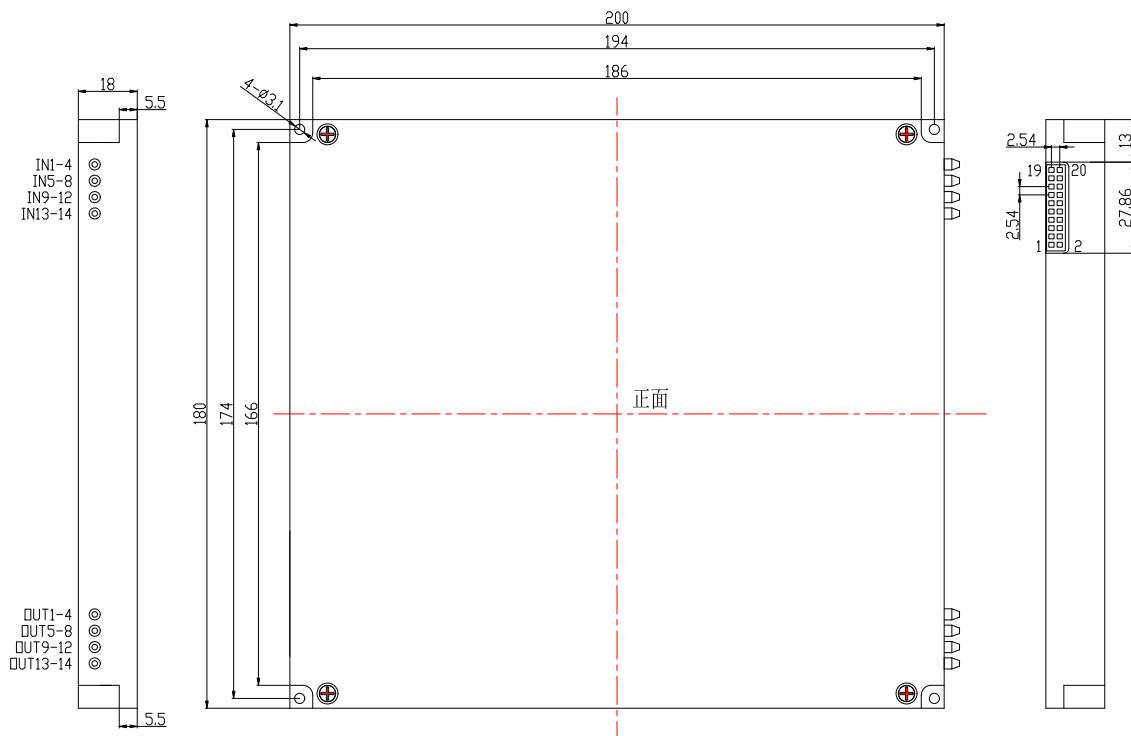


Dimension

110×141×12mm



200×180×18mm





Ordering Information: MEMS M×N-A-B-C-D-E-F-G

A	B	C	D	E	F	G
Mode	Wavelength	Dimension	Fiber Type	Fiber Dimension	Fiber Length	Connector
SM: Single Mode	85:850nm	1:110×141×12 mm	5:50/125	025:Φ0.25mm	05:0.5m	00: None
MM: Multi-Mode	13:1310nm	2:200×180×18 mm	6:62.5/125	09:Φ0.9mm	10:1.0m	FP: FC/UPC
	14:1490nm	X:other	9:9/125	X:other	15:1.5m	FA: FC/APC
	15:1550nm		X:other		X:other	SP: SC/UPC
	162:1625nm					SA: SC/APC
	165:1650nm					LP: LC/UPC
	13/15: 1310/1550nm					MP:MPO
	X:other					X:other