

MCJn: n=8-10 (e.g., n=10 for 1P10T)

**NORMALLY OPEN**

The MCJ10 series features SMA connectors and an operation frequency range of DC to 18 GHz. Higher frequency ranges are available. This product is of NORMALLY OPEN type with a compact design. The product options include TTL, suppression diodes, indicators, etc.



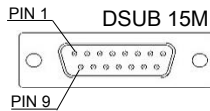
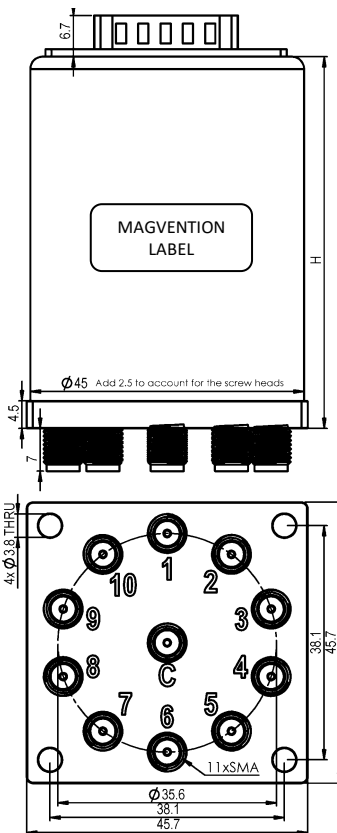
Specifications	
Contact Material	Plated Au
Switching Sequence	Break before Make
Switching Time (max)	15msec
Impedance	50Ω
Temperature Range	-25°C to +65°C -55°C to +85°C ("e" option)
Relative Humidity	5 to 85%
Operation Life (cycles)	1000000
Vibration Operating	10G RMS, 20-2000Hz
Mechanical Shock (non-operating)	50G, 1/2 Sine, 11msec
Weight (approx.)	225g

Frequency Range (GHz)	VSWR (max)	Insertion Loss (dB) (max)	Isolation (dB) (min)
DC-4	1.2	0.2	70
4-8	1.3	0.3	65
8-12.4	1.4	0.4	60
12.4-18	1.6	0.6	55

Voltage (VDC)		12	18	24	28
Current (mA)	Normally Open	260	160	140	100

Other options are available upon request.

**Optional Indicator Specifications**  
 Max withstand voltage: 60V  
 Max current capacity: 100mA  
 Max "ON" resistance: 16Ω  
 Note: +VDC and -C must be connected to operate.



1PnT PORT CONFIGURATIONS	
1PnT	Ports Used
1P10T	1 2 3 4 5 6 7 8 9 10
1P9T	1 2 3 4 5 6 7 8 9
1P8T	2 3 4 5 7 8 9 10

Note: "Blank" represents the unused RF and corresponding control ports.

MCJ8-, 1P8T SWITCH  
 MCJ9-, 1P9T SWITCH  
 MCJ10-, 1P10T SWITCH

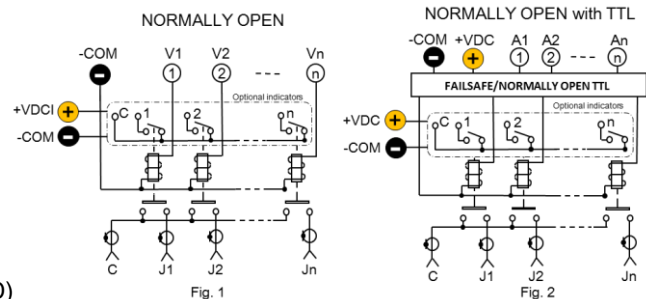
H = 62 (max) (STANDARD)  
 = 72 (max) (with TTL)

Mechanical drawings (unit: mm, tolerance +/-0.5mm).

NORMALLY OPEN with TTL 15-PIN D-SUB PINOUT	
Pin No.	PINOUT
n=1-10	An ( Jn-COM )
11	COM(-)
12-14	UNUSED
15	+VDC

NORMALLY OPEN 15-PIN D-SUB PINOUT	
Pin No.	PINOUT
n=1-10	Vn ( Jn-COM )
11	COM(-)
12-15	UNUSED

Pin 1-10: The corresponding control signal inputs.



## MCJn: n=7-10 (e.g., n=10 for 1P10T)

## NORMALLY OPEN

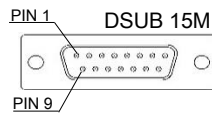
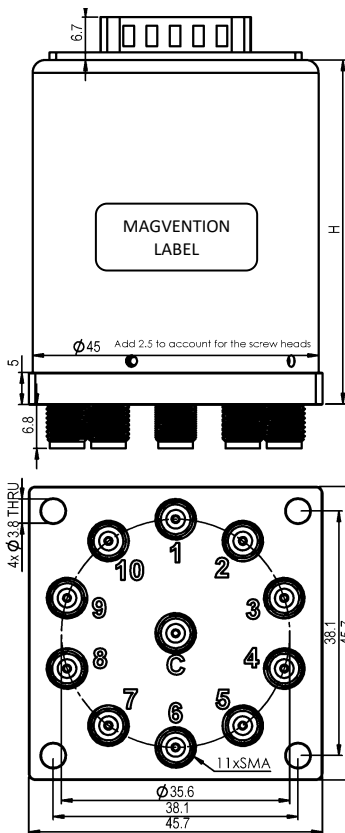
The MCJ10-K26 series features K connectors and an operation frequency range of DC to 26.5 GHz. Higher frequency ranges are available. This product is of NORMALLY OPEN type with a compact design. The product options include TTL, suppression diodes, indicators, etc.



Specifications					
Contact Material	Plated Au				
Switching Sequence	Break before Make				
Switching Time (max)	15msec				
Impedance	50Ω				
Temperature Range	-25°C to +65°C -55°C to +85°C ("e" option)				
Relative Humidity	5 to 85%				
Operation Life (cycles)	1000000				
Vibration Operating	10G RMS, 20-2000Hz				
Mechanical Shock (non-operating)	50G, 1/2 Sine, 11msec				
Weight (approx.)	225g				
Voltage (VDC)		12	18	24	28
Current (mA)	Normally Open	260	160	140	100

Frequency Range (GHz)	VSWR (max)	Insertion Loss (dB) (max)	Isolation (dB) (min)
DC-3	1.3	0.3	85
3-10	1.4	0.4	80
10-18	1.6	0.6	60
18-26.5	1.9	0.8	55

Other options are available upon request.



1PnT PORT CONFIGURATIONS	
1PnT	Ports Used
1P10T	1 2 3 4 5 6 7 8 9 10
1P9T	1 2 3 4 5 6 7 8 9
1P8T	2 3 4 5 7 8 9 10
1P7T	1 2 4 5 7 8 10

Note: "Blank" represents the unused RF and corresponding control ports.

### Optional Indicator Specifications

Max withstand voltage: 60V  
Max current capacity: 100mA  
Max "ON" resistance: 16Ω

Note: +VDC and -C must be connected to operate.

### NORMALLY OPEN with TTL

15-PIN D-SUB PINOUT	
Pin No.	PINOUT
n=1-10	An ( Jn-COM )
11	COM(-)
12-14	UNUSED
15	+VDC

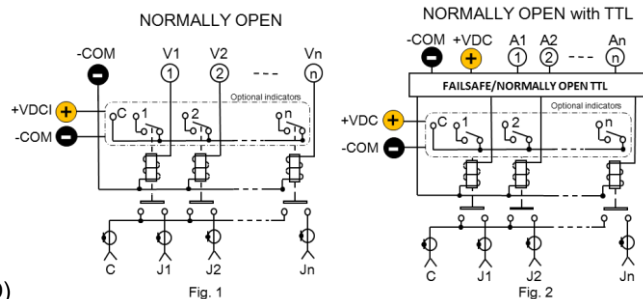
### NORMALLY OPEN 15-PIN D-SUB PINOUT

Pin No.	PINOUT
n=1-10	Vn ( Jn-COM )
11	COM(-)
12-15	UNUSED

Pin 1-10: The corresponding control signal inputs.

- MCJ7-, 1P7T SWITCH
- MCJ8-, 1P8T SWITCH
- MCJ9-, 1P9T SWITCH
- MCJ10-, 1P10T SWITCH

H = 62 (max) (STANDARD)  
= 72 (max) (with TTL)



Mechanical drawings (unit: mm, tolerance +/-0.5mm).