

# MCH8-C/N

# 1P8T, SC/N, DC-1GHz

MCHn: n=7-8 (e.g., n=8 for 1P8T)

**NORMALLY OPEN**

The **MCHn-** series features 1P8T with SC- or N-type connectors and an operation frequency range from DC to 1 GHz. This product is of **NORMALLY OPEN** type. The options include TTL and coil suppression diodes etc.



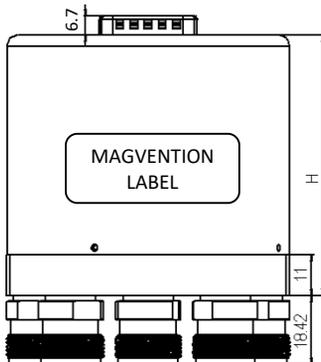
| Specifications                   |                                               |
|----------------------------------|-----------------------------------------------|
| Contact Material                 | Plated Au                                     |
| Switching Sequence               | Break before Make                             |
| Switching Time (max)             | 15msec                                        |
| Impedance                        | 50Ω                                           |
| Temperature Range                | -25°C to +65°C<br>-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.)                 |                                               |

| Frequency Range (GHz) | VSWR (max) | Insertion Loss (dB) (max) | Isolation (dB) (min) |
|-----------------------|------------|---------------------------|----------------------|
| DC-1                  | 1.15       | 0.15                      | 80                   |
|                       |            |                           |                      |
|                       |            |                           |                      |

| Voltage (VDC) |               | 12  | 18  | 24  | 28  |
|---------------|---------------|-----|-----|-----|-----|
| Current (mA)  | Normally Open | 250 | 180 | 140 | 110 |

Other options are available upon request.

Higher frequency ranges are available upon request.



MCH8-, 1P8T SWITCH  
MCH7-, 1P7T SWITCH

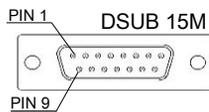
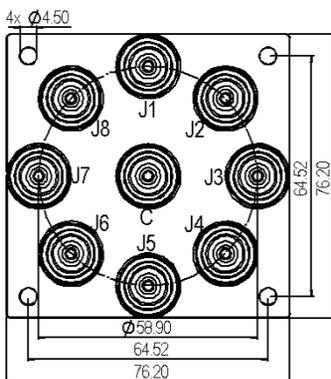
| 1PnT PORT CONFIGURATIONS |            |   |   |   |   |   |   |   |
|--------------------------|------------|---|---|---|---|---|---|---|
| 1PnT                     | Ports Used |   |   |   |   |   |   |   |
| 1P8T                     | 1          | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1P7T                     | 1          | 2 | 3 | 4 | 5 | 6 | 7 |   |

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

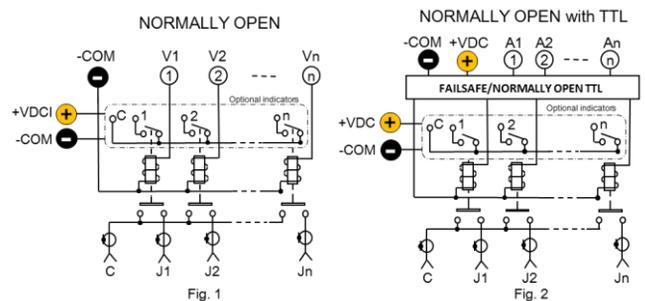
| NORMALLY OPEN<br>15-PIN D-SUB PINOUT |               |
|--------------------------------------|---------------|
| Pin No.                              | PINOUT        |
| n=1-8                                | Vn ( Jn-COM ) |
| 9                                    | COM(-)        |
| 10-15                                | UNUSED        |

| NORMALLY OPEN<br>With TTL<br>15-PIN D-SUB PINOUT |               |
|--------------------------------------------------|---------------|
| Pin No.                                          | PINOUT        |
| n=1-8                                            | An ( Jn-COM ) |
| 9                                                | COM(-)        |
| 10-14                                            | UNUSED        |
| 15                                               | +VDC          |

Pin 1-8: The corresponding control signal inputs.



H = 70 mm max (Standard)  
= 80 mm (max) (with TTL)



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