

## NMS2T

DC~12.4GHz, SPDT

### Features:

- \* Low VSWR
- \* Low Insertion Loss
- \* High Isolation

### Applications:

- \* Wireless
- \* Transmitter
- \* Laboratory Test
- \* Radar

### Electrical

Frequency: DC~12.4GHz  
Impedance: 50Ω

| Frequency range (GHz) | Insertion Loss (dB) | Isolation (dB) | VSWR |
|-----------------------|---------------------|----------------|------|
| DC~2                  | 0.20                | 80             | 1.15 |
| 2~4                   | 0.25                | 80             | 1.20 |
| 4~12.4                | 0.50                | 60             | 1.50 |

| Voltage (V)           | +12 | +18 | +24 | +28 |
|-----------------------|-----|-----|-----|-----|
| Current Failsafe (mA) | 275 | 170 | 130 | 115 |
| Latching              | 100 | 80  | 70  | 60  |

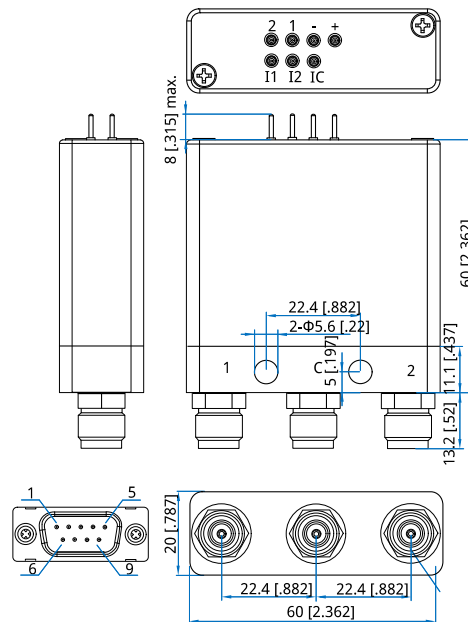
### Mechanical

|                                              |                                       |
|----------------------------------------------|---------------------------------------|
| Switching Sequence:                          | Break before Make                     |
| Switching Time:                              | 15mS max.                             |
| Operation Life:                              | 1M Cycles                             |
| Vibration (operating):                       | 20-2000Hz, 10G RMS                    |
| Mechanical Shock (non-operating):            | 50G, 1/2Sine, 11mS                    |
| RF Connectors:                               | TNC Female                            |
| Relative Humidity :                          | 5 to 85%                              |
| Power Supply & Control Interface Connectors: | Feed Through/Terminal Post or D-Sub 9 |

### Environmental

|                       |           |
|-----------------------|-----------|
| Temperature:          | -25~+65°C |
| Extended Temperature: | -55~+85°C |

### Outline Drawings



Unit: mm [in]  
Tolerance: ±0.5mm [±0.02in]

### How To Order

#### NMS2T-F-WXYZ

F: Frequency in GHz

W: Actuator Type. Failsafe: 0, Latching: 1.

X: Voltage. +12V: E, +18V: H, +24V: K, +28V: M.

Y: Power Interface. Pin: 0, D-Sub: 1.

Z: Additional Options.

### Additional Options

TTL: T

Indicators: I

Extended Temperature: Z

Positive Common

Waterproof Sealing Type

Examples:

To order a SPDT switch, DC-12.4GHz, Failsafe, +12V, Pin, TTL, Indicators, specify NMS2T-12.4-0E0TI.

Customization is available upon request.

## Pin Numbering

### Failsafe

| Pin   | Function       | Pin | Function        |
|-------|----------------|-----|-----------------|
| 1     | V1(RF: 0 to 1) | 5~6 | Indicator (1~2) |
| 2/4/8 | NC             | 7   | Indicator (COM) |
| 3     | COM            | 9   | VDC             |

### Failsafe&TTL

| Pin   | Function       | Pin | Function        |
|-------|----------------|-----|-----------------|
| 1     | A1(RF: 0 to 1) | 5~6 | Indicator (1~2) |
| 2/4/8 | NC             | 7   | Indicator (COM) |
| 3     | COM            | 9   | VDC             |

### Latching

| Pin | Function       | Pin | Function        |
|-----|----------------|-----|-----------------|
| 1   | V1(RF: 0 to 1) | 5~6 | Indicator (1~2) |
| 2   | V2(RF: 0 to 2) | 7   | Indicator (COM) |
| 3   | COM            | 9   | VDC             |
| 4/8 | NC             |     |                 |

### Latching&TTL

| Pin | Function       | Pin | Function        |
|-----|----------------|-----|-----------------|
| 1   | A1(RF: 0 to 1) | 5~6 | Indicator (1~2) |
| 2   | A2(RF: 0 to 2) | 7   | Indicator (COM) |
| 3   | COM            | 9   | VDC             |
| 4/8 | NC             |     |                 |

## Driving Schematic Diagram

## Coaxial Switches

