

**NMS12S**  
DC~16GHz, SP11T~SP12T

- |                      |                   |
|----------------------|-------------------|
| Features:            | Applications:     |
| * Low VSWR           | * Wireless        |
| * Low Insertion Loss | * Transmitter     |
| * High Isolation     | * Laboratory Test |
|                      | * Radar           |

**Electrical**

Frequency: DC~16GHz  
Impedance: 50Ω

Frequency range (GHz)	Insertion Loss (dB)	Isolation (dB)	VSWR
DC-6	0.3	70	1.3
6-12	0.4	60	1.4
12-16	0.6	50	1.6

Voltage*1 (V)	12	24	28
Current (mA) Normally Open	300	150	140

[1] The voltage can be selected according to user requirements.

**Mechanical**

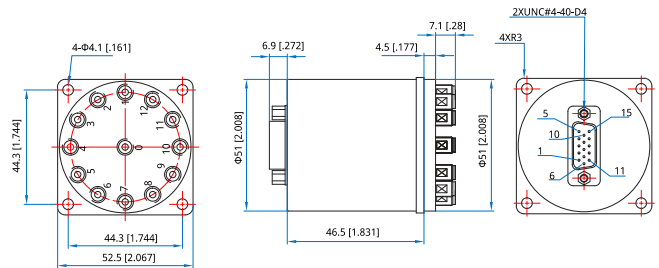
- |  |   |
|--|---|
| Size*2:                                      | 52.5*52.5*46.5mm<br>2.067*2.067*1.831in |
| Switching Sequence:                          | Break before Make                       |
| Switching Time:                              | 15mS max.                               |
| Operation Life:                              | 2M Cycles                               |
| Vibration (operating):                       | 20-2000Hz, 10G RMS                      |
| Mechanical Shock (non-operating):            | 30G, 1/2sine, 11mS                      |
| RF Connectors:                               | SMA Female                              |
| Power Supply & Control Interface Connectors: | D-Sub 15/D-Sub 26/J30J-31core           |
| Mounting:                                    | 4-Φ4.1mm through-hole                   |

[2] Exclude connectors.

**Environmental**

- |                       |           |
|-----------------------|-----------|
| Temperature:          | -25~+65°C |
| Extended Temperature: | -45~+85°C |

**Outline Drawings**



Unit: mm [in]  
Tolerance: ±0.5mm [±0.00in]

**Additional Options**

- TTL: T
- Indicators: I
- Extended Temperature: Z
- Positive Common
- Waterproof Sealing Type

**How To Order**

**NMS12S-F-WXYZ**

- F: Frequency in GHz
- W: Actuator Type. Normally Open: 3
- X: Voltage. +12V: E, +24V: K, +28V: M.
- Y: Power Interface. Pin: 0, D-Sub: 1.
- Z: Additional Options.

Examples:

To order a SPDT switch, DC-16GHz, Normally Open, +12V, D-Sub, TTL, Indicators, specify NMS12S-16-3E1TI.

Customization is available upon request.

### Pin Numbering

#### Normally Open

Pin	Function	Pin	Function
1~12	V1~V12	14~25	Indicator (1~12)
13	COM	26	Indicator (COM)

#### Normally Open & TTL

Pin	Function	Pin	Function
1~12	A1~A12	15~26	Indicator (1~12)
13	VDC	27	Indicator (COM)
14	COM	28~31	NC

### Driving Schematic Diagram

