

# NMS8S

DC~26.5GHz, SP7T~SP8T

Features:  
 \* Low VSWR  
 \* Low Insertion Loss  
 \* High Isolation

Applications:  
 \* Wireless  
 \* Transmitter  
 \* Laboratory Test  
 \* Radar

## Electrical

Frequency: DC~26.5GHz  
 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  |
| 12~18                 | 0.5                 | 55             | 1.5  |
| 18~26.5               | 0.7                 | 50             | 1.7  |

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

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

## Mechanical

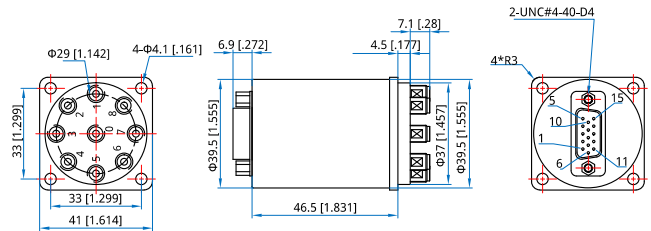
|  |                                     |
|--|-------------------------------------|
| Size*2:                                      | 41*41*46.5mm<br>1.614*1.614*1.831in |
| Switching Sequence:                          | Break before Make                   |
| Switching Time:                              | 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 15/26 male                    |
| 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 [±0.02in]

## Additional Options

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

## How To Order

**NMSVS-F-WXYZ**  
 V: 7~8 (SP7T~SP8T)  
 F: Frequency in GHz  
 W: Actuator Type. Normally Open: 3.  
 X: Voltage. +12V: E, +24V: K, +28V: M.  
 Y: Power Interface. D-Sub: 1.  
 Z: Additional Options.

## Examples:

To order a SP8T switch, DC-18GHz, Normally Open, +12V, D-Sub, TTL, Indicators, specify NMS8S-18-3E1TI.

Customization is available upon request.

### Pin Numbering

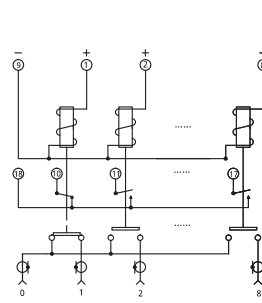
#### Normally Open

| Pin   | Function        | Pin   | Function        |
|-------|-----------------|-------|-----------------|
| 1~8   | V1~V8           | 18    | Indicator (COM) |
| 9     | COM             | 19    | VDC             |
| 10~17 | Indicator (1~8) | 20~26 | NC              |

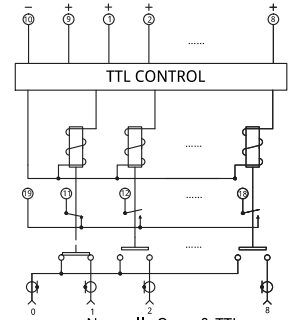
#### Normally Open & TTL

| Pin | Function | Pin   | Function        |
|-----|----------|-------|-----------------|
| 1~8 | A1~A8    | 11~18 | Indicator (1~8) |
| 9   | VDC      | 19    | Indicator (COM) |
| 10  | COM      | 20~26 | NC              |

### Driving Schematic Diagram



Normally Open



Normally Open & TTL