

## NMS6E

DC~6.5GHz, SP3T~SP6T

### Features:

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

### Applications:

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

### Electrical

Frequency: DC~6.5GHz  
Impedance: 50Ω

| Frequency range (GHz) | Insertion Loss (dB) | Isolation (dB) | VSWR |
|-----------------------|---------------------|----------------|------|
| DC~4                  | 0.3                 | 70             | 1.25 |
| 4~6.5                 | 0.4                 | 60             | 1.45 |

|                            |     |     |     |     |
|----------------------------|-----|-----|-----|-----|
| Voltage (V)                | +12 | +18 | +24 | +28 |
| Current (mA) Normally Open | 240 | 160 | 140 | 120 |

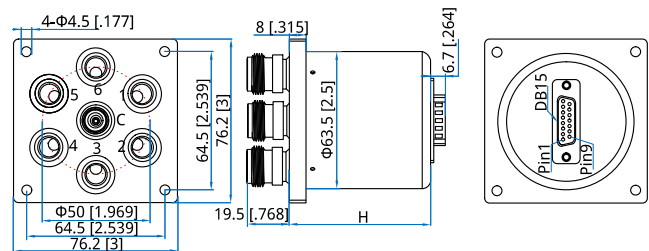
### Mechanical

|                                   |                            |
|-----------------------------------|----------------------------|
| 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:                    | SC Female                  |
| Relative Humidity:                | 5 to 85%                   |
| Power Supply & Control            | Feed Through/Terminal Post |
| Interface Connectors:             | or D-Sub 15                |

### Environmental

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

### Outline Drawings



|          | H mm [in]        |            |              | Pin        |
|----------|------------------|------------|--------------|------------|
| D-Sub 15 | Others           | 66 [2.598] | No indicator | 66 [2.598] |
|          | Indicator or TTL | 76 [2.992] | Indicator    | 69 [2.717] |

Unit: mm [in]

Tolerance: ±0.5mm [±0.02in]

### How To Order

**NMSVE-F-WXYZ**

V: 3~6 (SP3T~SP6T)

F: Frequency in GHz

W: Actuator Type. Normally Open: 3.

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 SP4T switch, DC-6.5GHz, Normally Open, +12V, D-Sub, TTL, Indicators, specify NMS4E-6.5-3E1TI.

Customization is available upon request.

## Driving Schematic Diagram

### Normally Open

| Pin  | Function        | Pin | Function        |
|------|-----------------|-----|-----------------|
| 1~6  | V1~V6           | 14  | Indicator (Com) |
| 7    | COM             | 15  | VDC             |
| 8~13 | Indicator (1~6) |     |                 |

### Normally Open & TTL

| Pin  | Function        | Pin | Function        |
|------|-----------------|-----|-----------------|
| 1~6  | A1~A6           | 14  | Indicator (Com) |
| 7    | COM             | 15  | VDC             |
| 8~13 | Indicator (1~6) |     |                 |

### Port

|      |          |      |     |
|------|----------|------|-----|
| SP3T | 1, 3, 5  | SP5T | 1~5 |
| SP4T | 1~2, 4~5 | SP6T | 1~6 |

