

## NMS6KTH

DC~43.5GHz, SP3T~SP6T, Terminated

### Features:

- \* High Power
- \* Long Operation Life

### Applications:

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

### Electrical

Frequency: DC~43.5GHz  
Impedance: 50Ω

| Model        | Frequency range (GHz) | Insertion Loss (dB) | Isolation (dB) | VSWR |
|--------------|-----------------------|---------------------|----------------|------|
| NMS6KTH-40   | DC-26.5               | 0.5                 | 80             | 1.5  |
|              | 26.5-40               | 0.7                 | 70             | 1.6  |
| NMS6KTH-43.5 | DC-40                 | 0.4                 | 70             | 1.3  |
|              | 40-43.5               | 1.0                 | 55             | 1.7  |

|               |               |     |     |     |
|---------------|---------------|-----|-----|-----|
| Voltage*1 (V) |               | 12  | 24  | 28  |
| Current (mA)  | Normally Open | 300 | 200 | 180 |
|               | Latching      | 320 | 200 | 180 |

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

### Mechanical

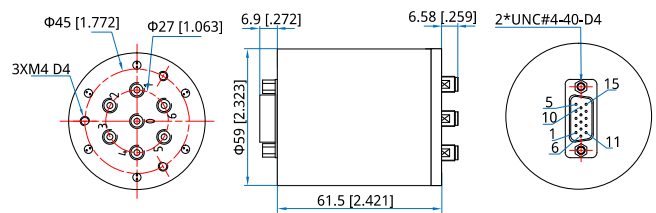
|                                              |                              |
|----------------------------------------------|------------------------------|
| Size*2:                                      | Φ59*61.5mm<br>Φ2.323*2.421in |
| Switching Sequence:                          | Break before 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:                               | 2.92mm Female                |
| Power Supply & Control Interface Connectors: | D-Sub 15/26                  |
| Mounting:                                    | 3-Φ4mm 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

**NMSVKTH-F-WXYZ**

V: 3~6 (SP3T~SP6T)

F: Frequency in GHz

W: Actuator Type. Latching: 1, Normally Open: 3.

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

Y: Power Interface. D-Sub: 1.

Z: Additional Options.

### Examples:

To order a SP4T terminated switch, High performance, DC-40GHz, Normally Open, +12V, D-Sub, TTL, Indicators, specify NMS4KTH-40-3E1TI.

Customization is available upon request.

## Normally Open

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

## Normally Open & TTL

| Pin | Function | Pin  | Function        |
|-----|----------|------|-----------------|
| 1~6 | A1~A6    | 9~14 | Indicator (1~6) |
| 7   | VDC      | 15   | Indicator (Com) |
| 8   | COM      |      |                 |

## Latching

| Pin  | Function        | Pin   | Function        |
|------|-----------------|-------|-----------------|
| 1~6  | V1~V6           | 15    | Indicator (Com) |
| 7    | V (RESET)       | 16    | VDC             |
| 8    | COM             | 17~26 | NC              |
| 9~14 | Indicator (1~6) |       |                 |

Latching switch should power on pin 7 to reset before excitation.

## Latching & TTL

| Pin | Function | Pin   | Function        |
|-----|----------|-------|-----------------|
| 1~6 | A1~A6    | 10~15 | Indicator (1~6) |
| 7   | RESET    | 16    | Indicator (Com) |
| 8   | VDC      | 17~26 | NC              |
| 9   | COM      |       |                 |

## Driving Schematic Diagram

