

## NMS8K

### DC~40GHz, SP7T~SP8T

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

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

### Electrical

Frequency: DC~40GHz  
 Impedance: 50Ω

Frequency range (GHz)	Insertion Loss (dB)	Isolation (dB)	VSWR
DC~12	0.5	70	1.4
12~18	0.6	60	1.5
18~26.5	0.8	55	1.7
26.5~40	1.1	50	2.0

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

### Mechanical

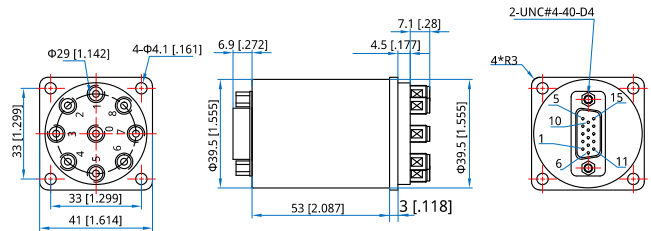
Size<sup>\*1</sup>: 41\*41\*53mm  
 1.614\*1.614\*2.087in  
 Switching Sequence: Break before Make  
 Switching Time: 15mS max.  
 Operation Life: 2M Cycles  
 Vibration (operating): 20-2000Hz, 10G RMS  
 Mechanical Shock (non-operating): 30G, 1/2sine, 11mS  
 RF Connectors: 2.92mm Female  
 Power Supply & Control Interface Connectors: D-Sub 15 Male/D-Sub 26 Male  
 Mounting: 4-Φ4.1mm through-hole

[1] 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

**NMSVK-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-40GHz, Normally Open, +12V, D-Sub, TTL, Indicators, specify NMS8K-40-3E1TI.

Customization is available upon request.

### Pin Numbering

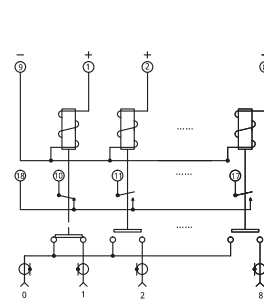
#### Normally Open

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

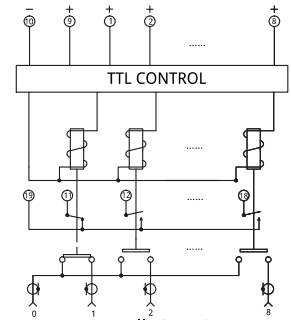
#### Normally Open & TTL

Pin	Function	Pin	Function
1~8	A1~A8	11~18	Indicator (1~8)
9	VDC	19	Indicator (COM)
10	COM	20~25	NC

### Driving Schematic Diagram



Normally Open



Normally Open & TTL