

### NMS8N

DC~8GHz, SP7T~SP8T

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

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

#### Electrical

Frequency: DC~8GHz  
 Impedance: 50Ω

Frequency range (GHz)	Insertion Loss (dB Max.)	Isolation (dB Max.)	VSWR(Max.)
DC~3	0.4	70	1.5
3~8	0.7	60	1.7

Voltage (V)	Current (mA Max.)	Normally Open	+12	+24
			350@25°C	150@25°C

#### Mechanical

Size\*1: 67\*82.6\*82.6mm  
 2.638\*3.252\*3.252in

Switching Sequence: Break before Make  
 Switching Time: 20mS max.  
 Operation Life: 1M Cycles

Vibration (operating): 20-2000Hz, 10G RMS  
 Mechanical Shock (non-operating): 30G, 1/2sine, 11mS

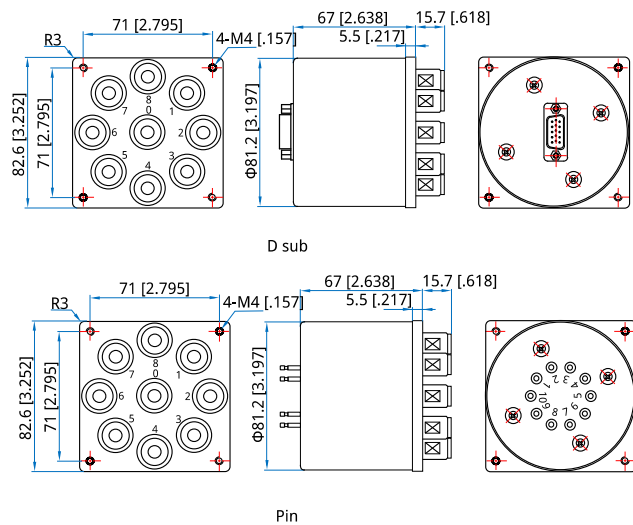
RF Connectors: N Female  
 Power Supply & Control Interface Connectors: Feed Through/Terminal Post or D-Sub 15/26 Male  
 Mounting: 4-M4mm through hole

[1] Exclude connectors.

#### Environmental

Operating Temperature: -45~+85°C  
 Non-operating Temperature: -55~+85°C

#### Outline Drawings



Unit: mm [in]  
 Tolerance: ±0.5mm [±0.02in]

#### Additional Options

TTL: T  
 Indicators: I  
 Positive Common  
 Waterproof Sealing Type

#### How To Order

**NMSVN-F-WXYZ**

V: 7~8 (SP7T~SP8T)

F: Frequency in GHz

W: Actuator Type. Normally Open: 3.

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

Y: Power Interface. Pin: 0, D-Sub: 1.

Z: Additional Options.

Examples:

To order a SP8T switch, DC-8GHz, Normally Open, +12V, D-Sub, TTL, Indicators, specify NMS8N-8-3E1TI.

Customization is available upon request.

### Pin Numbering

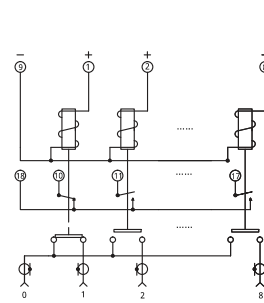
#### Normally Open

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

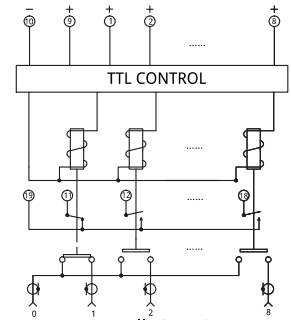
#### Normally Open & TTL

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