

## NMSD2SH

DC~26.5GHz, DPDT

- |                      |                   |
|----------------------|-------------------|
| Features:            | Applications:     |
| * Low VSWR           | * Wireless        |
| * Low Insertion Loss | * Transmitter     |
| * High Isolation     | * Laboratory Test |
|                      | * Radar           |

### Electrical

Frequency: DC~26.5GHz				
Impedance: 50Ω				
Model	Frequency range (GHz)	Insertion Loss (dB)	Isolation (dB)	VSWR
NMSD2SH-18	DC-6	0.25	75	1.10
	6-18	0.40	70	1.20
NMSD2SH-26.5	DC-18	0.40	70	1.30
	18-26.5	0.50	65	1.50
Voltage*1 (V)		+12	+24	+28
Current (mA)	Failsafe	350	200	180
	Latching	400	200	185

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

### Mechanical

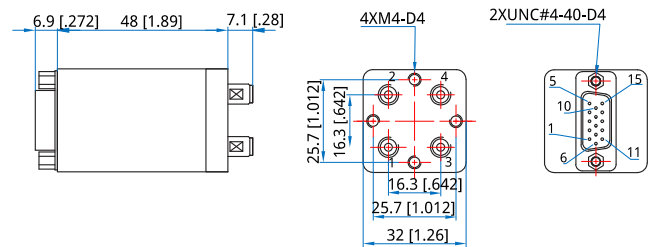
Size*2:	32*32*62mm 1.26*1.26*2.441in
Switching Sequence:	Break before Make
Switching Time:	15mS max.
Operation Life:	2M Cycles
Vibration (operating):	20-2000Hz, 10G RMS
Mechanical Shock (non-operating):	30G, 1/2sine, 11mS
RF Connectors:	SMA Female
Power Supply & Control Interface Connectors:	D-Sub 15
Mounting:	4-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

#### NMSD2SH-F-WXYZ

- F: Frequency in GHz
- W: Actuator Type. Failsafe: 0, Latching: 1.
- X: Voltage. +12V: E, +24V: K, +28V: M.
- Y: Power Interface. Pin: 0, D-Sub: 1.
- Z: Additional Options.

#### Examples:

To order a DPDT switch, High performance, DC-18GHz, Failsafe, +12V, D-Sub, TTL, Indicators, specify NMSD2SH-18-0E1TI.

Customization is available upon request.

### Pin Numbering

#### Failsafe

Pin	Function	Pin	Function
1	COM(RF: 1 to 3)	13~14	Indicator (1~2)
2	VDC(RF: 1 to 3)	15	Indicator (COM)
3~12	NC		

#### Failsafe&TTL

Pin	Function	Pin	Function
1	VDC(RF: 1 to 3)	4~12	NC
2	COM(RF: 1 to 3)	13~14	Indicator (1~2)
3	A1(RF: 1 to 3)	15	Indicator (COM)

#### Latching

Pin	Function	Pin	Function
1	V1(RF: 1 to 2)	4~12	NC
2	V2(RF: 1 to 3)	13~14	Indicator (1~2)
3	COM	15	Indicator (COM)

#### Latching&TTL

Pin	Function	Pin	Function
1	VDC	5~12	NC
2	COM	13~14	Indicator (1~2)
3	A1(RF: 1 to 2)	15	Indicator (COM)
4	A2(RF: 1 to 3)		

### Driving schematic diagram

