

# NMSD2N

DC~12.4GHz, DPDT

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

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

### Electrical

Frequency:	DC~12.4GHz(Ordinary Power)			
	DC~8GHz(High Power)			
Impedance:	50Ω			
Frequency range (GHz)	Insertion Loss (dB)	Isolation (dB)	VSWR	
DC-6	0.3	70	1.3	
6-12.4	0.6	60	1.6	
Voltage*1 (V)		+12	+24	+28
Current (mA)	Failsafe	320	220	200
	Latching	350	250	200

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

### Mechanical

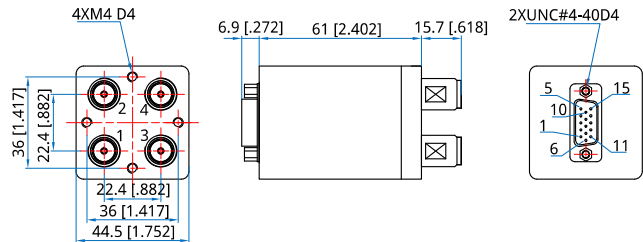
Size*2:	44.5*44.5*83.6mm			
	1.752*1.752*3.291in			
Switching Sequence:	Break before Make			
Switching Time:	15mS max.			
Operation Life:	2M Cycles			
Vibration (operating):	20-2000Hz, 10G RMS			
Mechanical Shock (non-operating):	30G, 1/2sine, 11mS			
RF Connectors:	N Female			
Power Supply & Control 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

**NMSD2N-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, DC-12.4GHz, Failsafe, +12V, D-Sub, TTL, Indicators, specify NMSD2N-12.4-0E1TI.

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

