

# QMSD2N

## 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

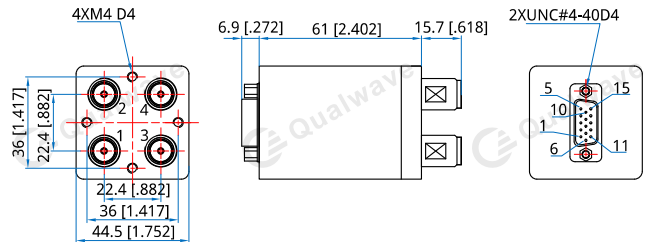
Size\*2: 44.5\*44.5\*83.6mm  
 1.752\*1.752\*3.291in  
 Switching Sequence: Break before Make  
 Switching Time: 15mS max.  
 Operation Life: 2M Cycles  
 Vibration (operating): 20-2000Hz, 10G RMS  
 Mechanical Shock (non-operating): 30G, 1/2sine, 11mS  
 RF Connectors: N Female  
 Power Supply & Control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

#### QMSD2N-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 QMSD2N-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

