

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

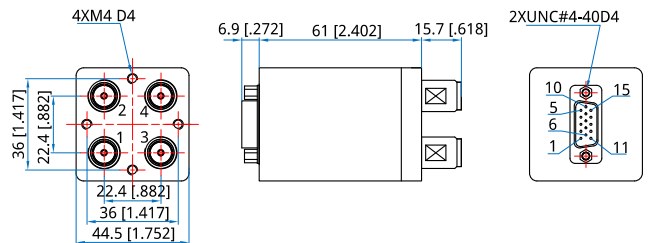
Size* ² :	44.5*44.5*83.6mm 1.752*1.752*3.291in			
Switching Sequence:	Break before Make			
Switching Time:	15mS max.			
Operation Life:	2M Cycles			
Vibration (operating):	20-2000Hz, 10G RMS			
Mechanical Shock (non-operating):	30G, 1/2sine, 11mS			
RF Connectors:	N Female			
Power Supply & Control Interface Connectors:	D-Sub 15			
Mounting:	4-Φ4mm through-hole			

[2] Exclude connectors.

Environmental

Temperature:	-25~+65°C
Extended Temperature:	-40~+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

