

QMSD2V

DC~53GHz, DPDT

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

Applications:
 * Wireless
 * Transmitter
 * Laboratory Test
 * Radar

Electrical

Frequency: DC~53GHz
 Impedance: 50Ω
 Control: TTL High: 3~5V
 TTL Low: 0~0.3V

Frequency range (GHz)	Insertion Loss (dB)	Isolation (dB)	VSWR
DC-6	0.3	70	1.2
6-12	0.4	70	1.3
12-18	0.5	60	1.3
18-26.5	0.7	55	1.4
26.5-32	0.8	50	1.4
32-40	0.9	50	1.7
40-43	1.0	50	1.7
43-50	1.2	50	1.8
50~53	1.5	50	1.8

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

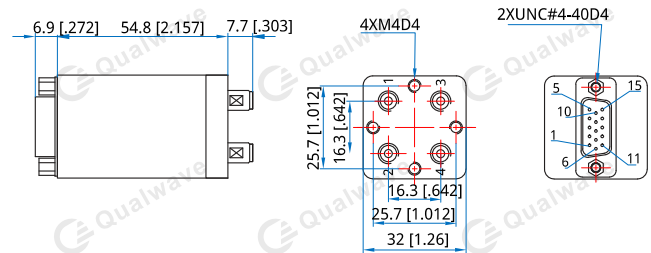
Size*2: 32*32*54.8mm
 1.26*1.26*2.157in
 Switching Sequence: Break before Make
 Switching Time: 15mS max.
 Operation Life: 2M Cycles
 Vibration (operating): 20-2000Hz, 10G RMS
 Mechanical Shock (non-operating): 30G, 1/2sine, 11mS
 RF Connectors: 1.85mm Female
 Power Supply & Control Interface Connectors: D-Sub 15Pin male
 Mounting: 4-M4mm deep 4mm

[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

QMSD2V-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-18GHz, Failsafe, +12V, D-Sub, TTL, Indicators, specify QMSD2V-18-0E1TI.

Customization is available upon request.

Pin Numbering

Failsafe

Pin	Function	Pin	Function
1	COM	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	4~12	NC
2	COM	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)		