

QSS2

SPDT, DC~18GHz

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

Applications:
 * Wireless
 * Transmitter
 * Laboratory Test
 * Radar

Electrical

Frequency: DC~18GHz
 Voltage: 12±2V DC
 18±2V DC
 24±2V DC (DC~5GHz)
 Current: 130mA@12V DC
 195mA@18V DC
 85mA@25°C
 Impedance: 50Ω

Frequency range (GHz)	Insertion Loss (dB Max.)	Isolation (dB Min.)	VSWR (Max.)
DC-2	0.2	70	1.3
2-5	0.3	60	1.4
5-12	0.4	50	1.5
12-18	0.7	40	1.7

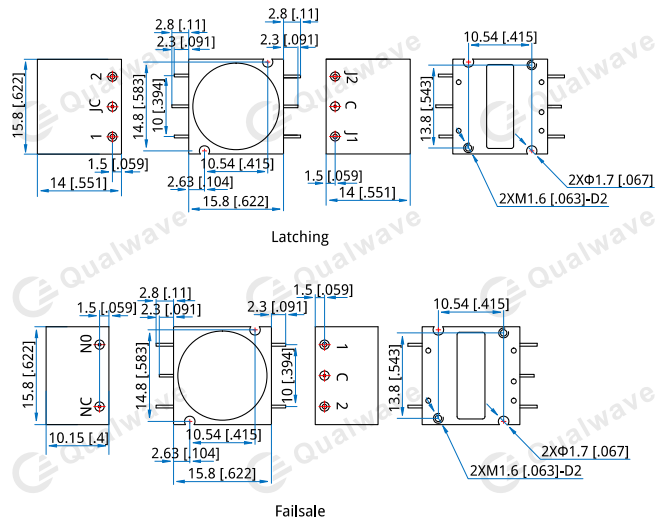
Mechanical

Connector Type: PIN (Φ0.45mm)
 Switching Time: 10mS
 Operation Life: 1M Cycles
 Vibration (operating): 20-2000Hz, 10G RMS
 Mechanical Shock: 50G, 1/2Sine, 11mS
 Weight: 17g(Failsale)
 25g(Latching)

Environmental

Operating Temperature: -40~+85°C
 Extended Temperature: -55~+105°C

Outline Drawings



Unit: mm [in]
 Tolerance: ±0.2mm [±0.008in]

Additional Options

Extended Temperature: Z

How To Order

QSS2-F-XYZ

F: Frequency in MHz
 X: Actuator Type. Failsafe: 0, Latching: 1.
 Y: Voltage. +12V: E, +18V: H, +24V: K.
 Z: Additional Options.

Examples:

To order a Surface mount switch, SPDT, DC-2GHz, Failsafe, +12V, specify QSS2-2000-0E.

Customization is available upon request.

Pin Numbering

Failsafe

Pin	Function	Pin	Function
1	VDC	C	RF (COM)
2	GND	NO	RF 2
NC	RF 1		

Latching

Pin	Function	Pin	Function
1	VDC	J1	RF 1
2	VDC	JC	RF (COM)
C	GND	J2	RF 2

Control Logic

Failsafe

Position	1	2	Indicator status
POS 1	NC	GND	NC-C ON NO-C OPEN
POS 2	VDC	GND	NC-C OPEN NO-C ON

Latching

Position	1	2	C	Indicator status
POS 1	VDC	NC	GND	J1-JC ON J2-JC OPEN
POS 2	NC	VDC	GND	J1-JC OPEN J2-JC ON

Driving Schematic Diagram

