

QWCSD-42-S

DPDT, DC~26.5GHz, WR-42, SMA

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

Applications:
 * Wireless
 * Transmitter
 * Laboratory Test
 * Radar

Electrical

Frequency(Coaxial): DC~18GHz
 Frequency(Waveguide): 18~26.5GHz
 Current: 1.2A@24V DC
 Voltage: 24±2V DC
 Impedance: 50Ω

Coaxial Switch

Frequency range (GHz)	Insertion Loss (dB Max.)	Isolation (dB min.)	VSWR (Max.)
DC-1	0.05	80	1.1
1-2	0.1	70	1.15
2-6.5	0.25	60	1.25
6.5-11	0.3	60	1.3
11-15	0.35	50	1.35
15-18	0.5	50	1.5

Waveguide Switch

Frequency range (GHz)	Insertion Loss (dB Max.)	Isolation (dB min.)	VSWR (Max.)
18-26.5	0.1	60	1.1

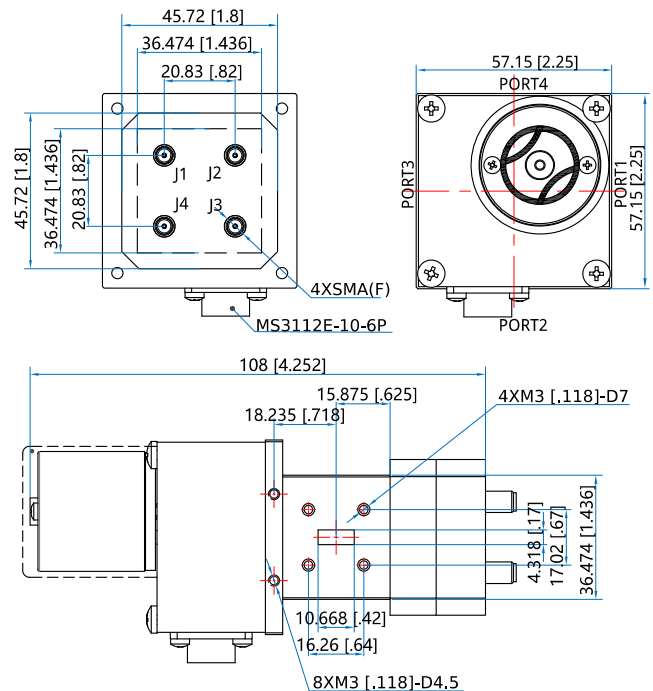
Mechanical

Coaxial Switch Interface: SMA
 Waveguide Switch Interface: WR-42
 Switching Time: 80mS
 Operation Life: 0.1M Cycles

Environmental

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

Outline Drawings



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

Additional Options

TTL: T
 Indicators: I
 Extended Temperature: Z

How To Order

QWCSD-42-S-XYZ

S: RF Connectors. SMA: S.
 X: Voltage. +15V: F, +24V: K.
 Y: Interface Circular connector:2.
 Z: Additional Options.

Examples:

To order a Waveguide Coaxial Switch, DPDT, WR42, SMA, +24V, TTL, Indicators, specify QWCSD-42-S-K2IT.

Customization is available upon request.

Pin Numbering

Pin	Function	Pin	Function
A	VDC	D	Indicator1
B	GND	E	Indicator (COM)
C	VDC	F	Indicator2

Control Logic

Position	A	B	C	RF Working Condition	Indicator status
POS 1	VDC	GND	NC	PORT1-PORT2 ON PORT3-PORT4 ON	J1-J2 ON J3-J4 ON D-E ON F-E OPEN
POS 2	NC	GND	VDC	PORT1-PORT4 ON PORT3-PORT2 ON	J1-J4 ON J3-J2 ON D-E OPEN F-E ON

Driving Schematic Diagram

