

QMS12ST

DC~16GHz, SP11T~SP12T, Terminated

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

Applications:
 * Wireless
 * Transmitter
 * Laboratory Test
 * Radar

Electrical

Frequency:		DC~16GHz		
Impedance:		50Ω		
Frequency range (GHz)	Insertion Loss (dB)	Isolation (dB)	VSWR	
DC~6	0.3	70	1.3	
6~12	0.4	60	1.5	
12~16	0.5	50	1.6	
Voltage*1 (V)		+12	+24	+28
Current (mA)	Normally Open	300	200	180
	Latching	320	200	180

[1] The voltage can be selected according to user requirements.

Mechanical

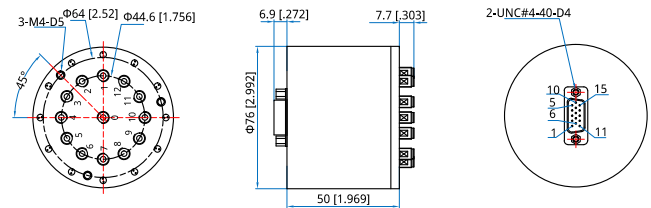
Size*2:	Φ76*50*mm Φ2.992*1.969in
Switching Sequence:	Break before Make
Switching Time:	15mS max.
Operation Life:	2M Cycles
Vibration (operating):	20-2000Hz, 10G RMS
Mechanical Shock (non-operating):	30G, 1/2sine, 11mS
RF Connectors:	SMA Female
Power Supply & Control Interface Connectors:	D-Sub 15/D-Sub 25/J30J-31
Mounting:	3-M4, depth 5mm

[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
 Positive Common
 Waterproof Sealing Type
 Self-cutoff (Latching Only)

How To Order

QMSVST-F-WXYZ

V: 11~12 (SP11T~SP12T)
 F: Frequency in GHz
 W: Actuator Type. Latching: 1, Normally Open: 3.
 X: Voltage. +12V: E, +24V: K, +28V: M.
 Y: Power Interface. D-Sub: 1.
 Z: Additional Options.

Examples:

To order a SP12T terminated switch, DC-16GHz, Normally Open, +12V, D-Sub, TTL, Indicators, specify QMS12ST-16-3E1TI.

Customization is available upon request.

Numbering

Normally open

Pin	Function	Pin	Function
1~12	V1~V12	14~25	Indicator (1~12)
13	COM	26	Indicator (COM)

Normally open & TTL

Pin	Function	Pin	Function
1~12	A1~A12	15~26	Indicator (1~12)
13	VDC	27	Indicator (COM)
14	COM	28~31	NC

Latching

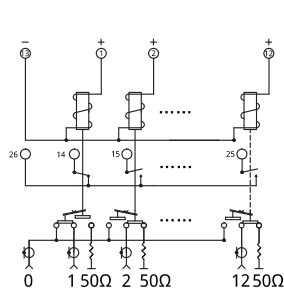
Pin	Function	Pin	Function
1~12	V1~V12	15~26	Indicator (1~12)
13	RESET	27	Indicator (COM)
14	COM		

Latching switch should power on pin 13 to reset before excitation.

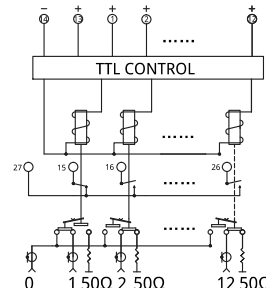
Latching & TTL

Pin	Function	Pin	Function
1~12	A1~A12	16~27	Indicator (1~12)
13	RESET	28	Indicator (COM)
14	VDC	29~31	NC
15	COM		

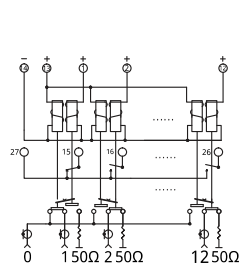
Driving Schematic Diagram



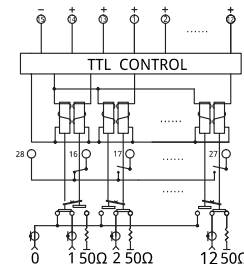
Normally Open



Normally Open & TTL



Latching



Latching & TTL