

Features:

- Broadband: DC - 12 GHz
- Extended Life: 5 million cycles
- Excellent Repeatability
- Low Insertion Loss
- 50Ω Internal Terminations
- Available in 11 or 12 Positions

RF Specification:

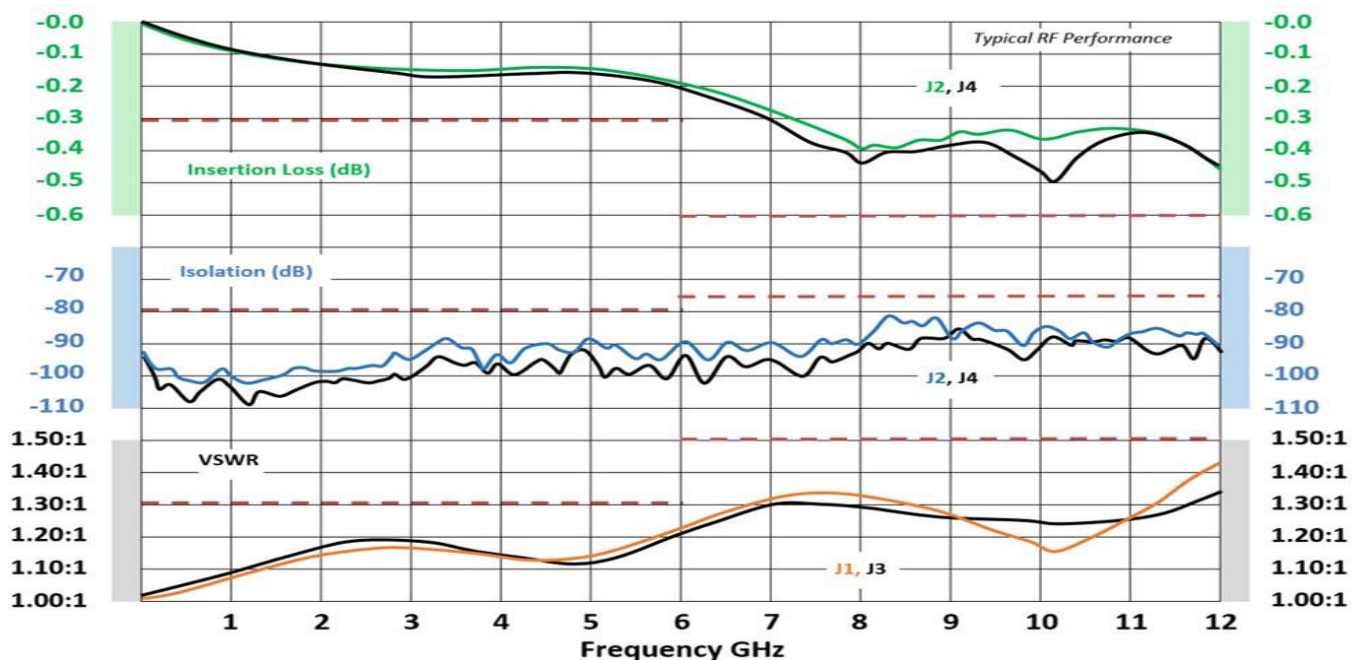
Frequency, (GHz)	DC-2	2-4	4-6	6-8
Ins. Loss dB (max)	0.25	0.30	0.30	0.60
Isolation dB (min)	100	95	95	90
VSWR (max)	1.25:1	1.30:1	1.30:1	1.50:1
Switching Time	20 mS (max)			
Switching Action	Break-Before-Make			
Impedance	50Ω (Switch and Terminations)			

Description:

Internal 50-ohm terminations ensure good isolation in the "off" state regardless of the match to which the switch is connected. High reliability and low loss performance makes these switches ideal for all testing applications. Magnetically latched in place, after control voltage is removed.

Applications: lab testing and production ATE requirements.

Markets: defense, telecom, aerospace, enterprise, consumer and IoT.



Specifications

Oper Temp	-25° C to +65° C
Oper Temp	-54° C to +85° C (M version)
Storage Temp	-55° C to +100° C
Humidity	Moisture resistant or immersion sealing available
Shock	MIL-STD-202 Method 213, Condition D, 500G (non oper)
Vibration	MIL-STD-202 Method 214, Condition D, 10G RMS (non oper)
Cycle Life	5M cycles (may vary based on selected options)

Voltages and Current

Nominal Voltage, Vdc	12	15	24	28
Voltage Range, Vdc	11-13	14-16	22-26	26-30
Set Current (mA)*	140	105	90	105
Reset Current (mA)*	1680	1260	1080	1260

Popular Models

SP12T-OC-08A-T	SP12T, SMA, Latching, DC-8GHz, 12VDC, Internal Termination
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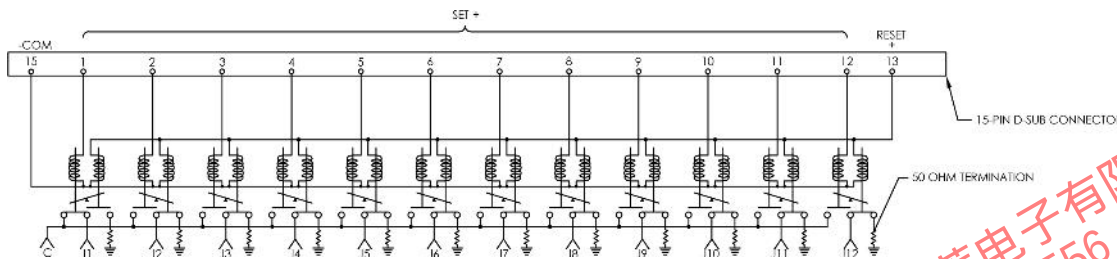
- See backside for a full list of available features and options

- Contact us for high power and custom designs

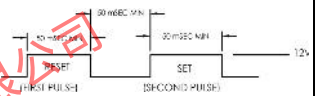
- Reset current = Current rating x (# of positions)

* at nominal voltage and +20°C

Schematic

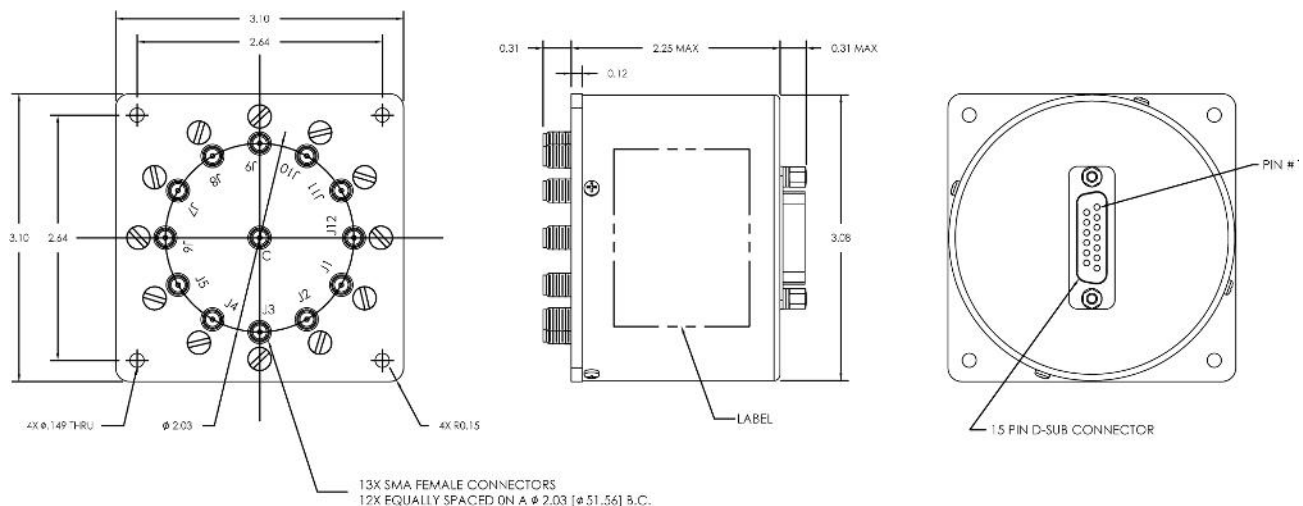


Contact factory for full operating sequence, pin assignments and truth tables



SP12T: Latching, 50Ω terminations, 15 pin D-Sub Connector
(Position J1)

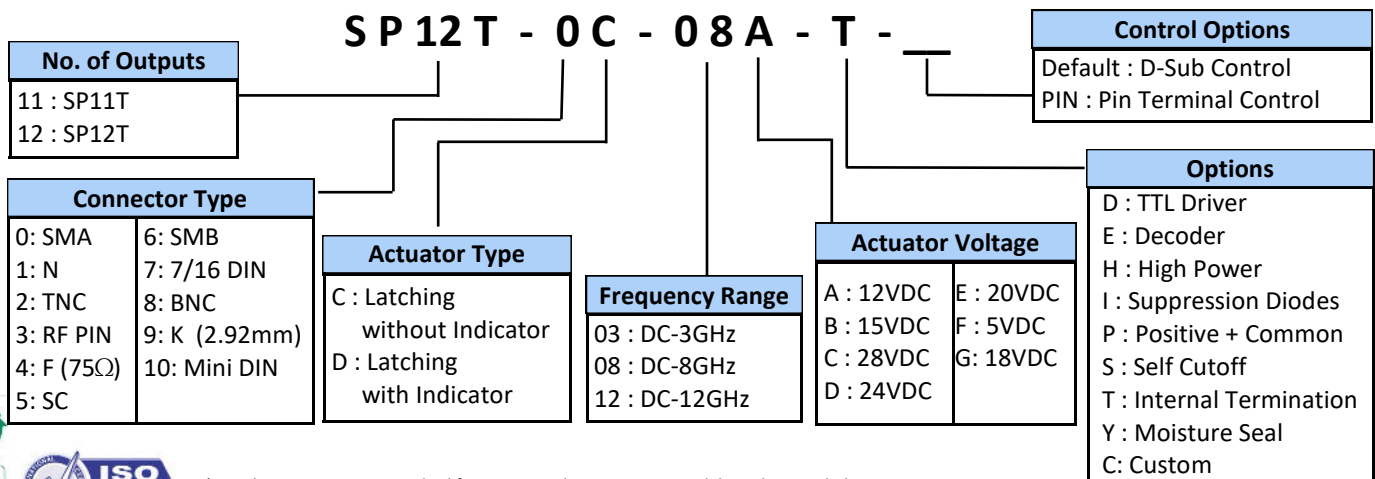
Outline



Model Numbering System

Example: SP12T-0C-08A-T

(SP12T, SMA Connector, Latching without indicator, DC-8GHz, 12VDC, Internal Termination, D-Sub Control)



* D-Sub connectors are standard for SPMT, no designation on model number needed