

Single-Pole-Multi-Throw (SP7T-SP8T)

Latching - Terminations - K - DC to 40 GHz

Features:

Broadband: DC - 40 GHzExtended Life: 1 million cycles

Excellent Repeatability

- Low Insertion Loss
- 50Ω Internal Terminations
- Available in 7 or 8 Positions

RF Specification:

Frequency, (GHz)	DC-6	6-12	12-18	18-26.5	26.5-40
Ins. Loss dB (max)	0.3	0.4	0.6	0.8	1.5
Isolation dB (min)	80	70	70	70	70
VSWR (max)	1.20:1	1.30:1	1.50:1	2.00:1	2.20:1

 Switching Time
 20 mS (max)

 Switching Action
 Break-Before-Make

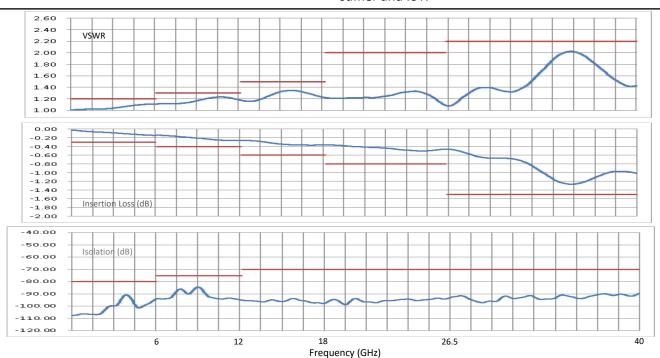
 Impedance
 50Ω (Switch and Terminations)

Preliminary



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	1M cycles (may vary based on selected options)		

Voltages and Current			
Nominal Voltage, Vdc	12	24	28
Voltage Range, Vdc	11-13	22-26	24-30
Set Current (mA)*	280	150	105
Reset Current (mA) * (SP8T)	2240	1200	840

Popular Models				
SP7T-9C-40A-T	SP7T, K, Latching, DC-40GHz, 12VDC, Internal			
	Termination			
SP8T-9C-40A-T	SP8T, K, Latching, DC-40GHz, 12VDC, , Internal			
	Termination			
SP8T-9C-40A-TD	SP8T, K, Latching, DC-40GHz, 12VDC, Internal			
	Termination, TTL			
SP8T-9D-40A-T	SP8T, K, Latching, DC-40GHz, 12VDC, Internal			
	Termination , Indicator			

- See backside for a full list of available features and options
- Contact us for high power and custom designs

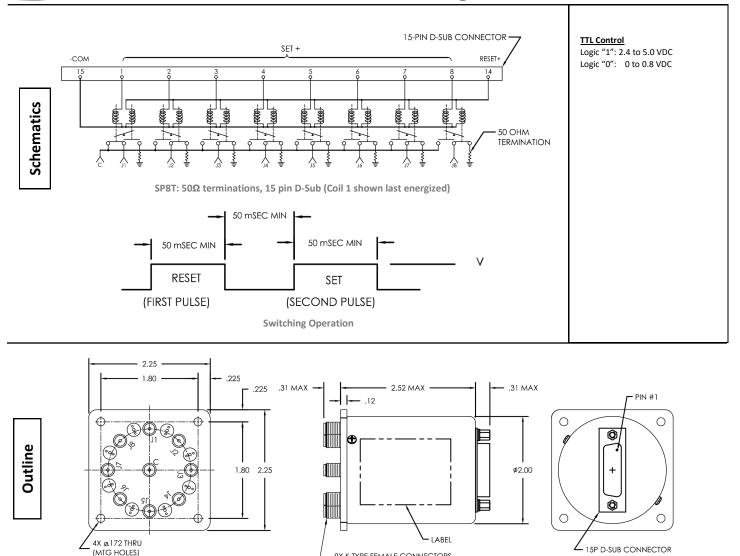
Note: Reset current = Current rating x (# of positions)

* at nominal voltage and +20°C



Single-Pole-Multi-Throw (SP7T-SP8T)

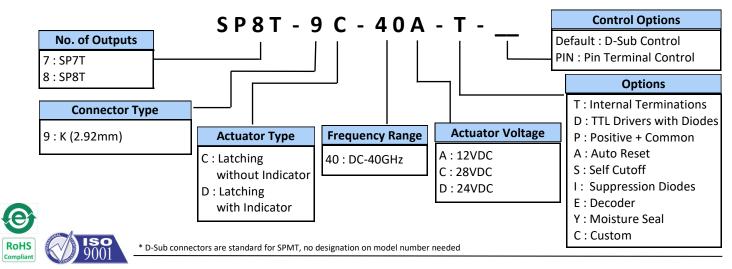
Latching - Terminations - K - DC to 40 GHz



Model Numbering System Example: SP8T-9C-40A-T

9X K TYPE FEMALE CONNECTORS 8X EQUALLY SPACED ON \$1.54 B.C.

(SP8T, K Connector, Latching without indicator, DC-40GHz, 12VDC, Internal Termination, D-Sub Control)



Disclaimer: Subject to change without notice

@2021