

Features:

- Broadband: DC - 18 GHz
- Extended Life: 2 million cycles
- Excellent Repeatability
- Low Insertion Loss
- Available in 3, 4, 5 or 6 Positions

Note: See series SP3T-SP6T Option T for 50Ω terminations

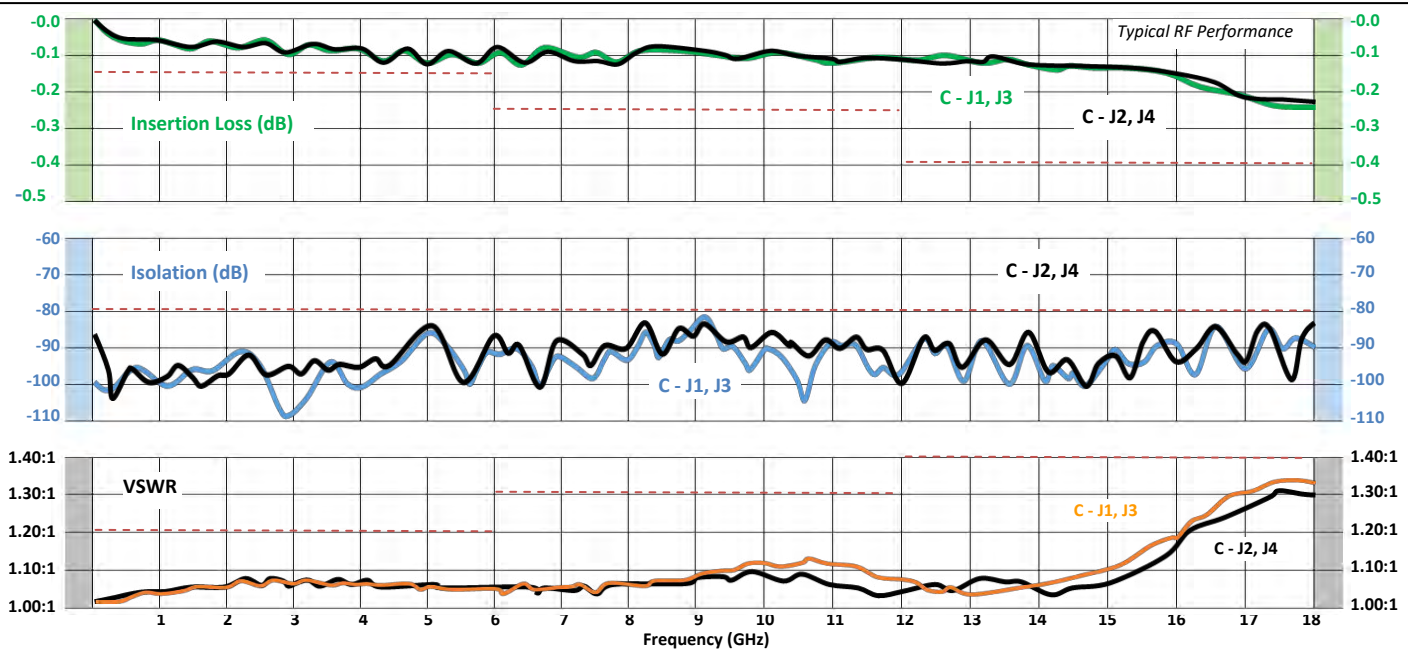


RF Specification:

Frequency, (GHz)	DC-6	6-12	12-18
Ins. Loss dB (max)	0.15	0.25	0.40
Isolation dB (min)	80	80	80
VSWR (max)	1.20:1	1.30:1	1.40:1
Switching Time	20 mS (max)		
Switching Action	Break-Before-Make		
Impedance	50 Ω (Switch and Terminations)		

Description:

High reliability and low loss performance makes these switches ideal for all testing applications. Available in 3, 4, 5 or 6 position versions with a wide selection of features are available to meet most requirements. Good low to medium power handling. **Applications:** lab testing to 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	2M cycles (may vary based on selected options)

Voltagess and Current

Nominal Voltage, Vdc	12	15	24	28
Voltage Range, Vdc	11-13	14-16	22-26	26-30
Current (mA)*	250	200	150	140

* at nominal voltage and +20°C

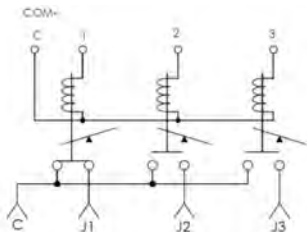
Popular Models

SP3T-OE-18A	SP3T, SMA, Normally Open, DC-18GHz, 12VDC
SP3T-OE-18A-D	SP3T, SMA, Normally Open, DC-18GHz, 12VDC, TTL
SP4T-OE-18A	SP4T, SMA, Normally Open, DC-18GHz, 12VDC
SP4T-OE-18A-D	SP4T, SMA, Normally Open, DC-18GHz, 12VDC, TTL
SP6T-OE-18A	SP6T, SMA, Normally Open, DC-18GHz, 12VDC
SP6T-OE-18A-D	SP6T, SMA, Normally Open, DC-18GHz, 12VDC, TTL

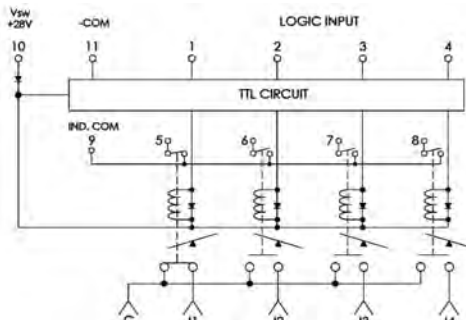
- See backside for a full list of available features and options
- Contact us for high power and custom designs



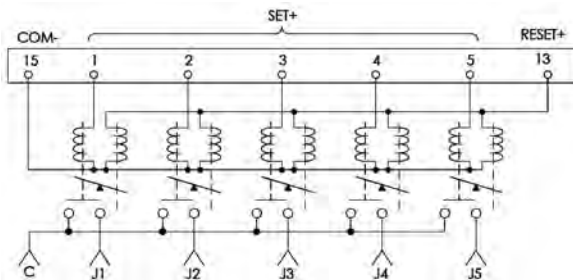
Schematics



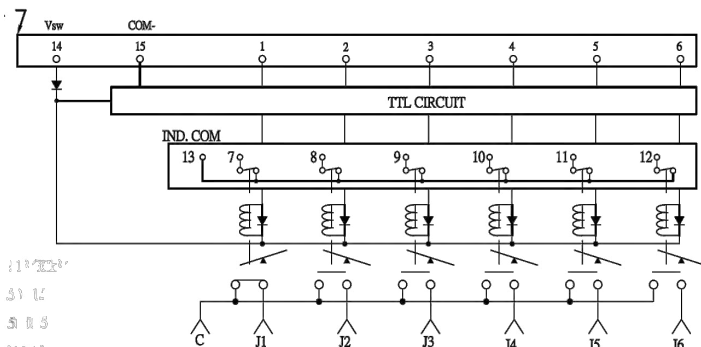
(SP3T) Position #1 Energized



(SP4T w/ TTL & Indicators) Position #1 Energized

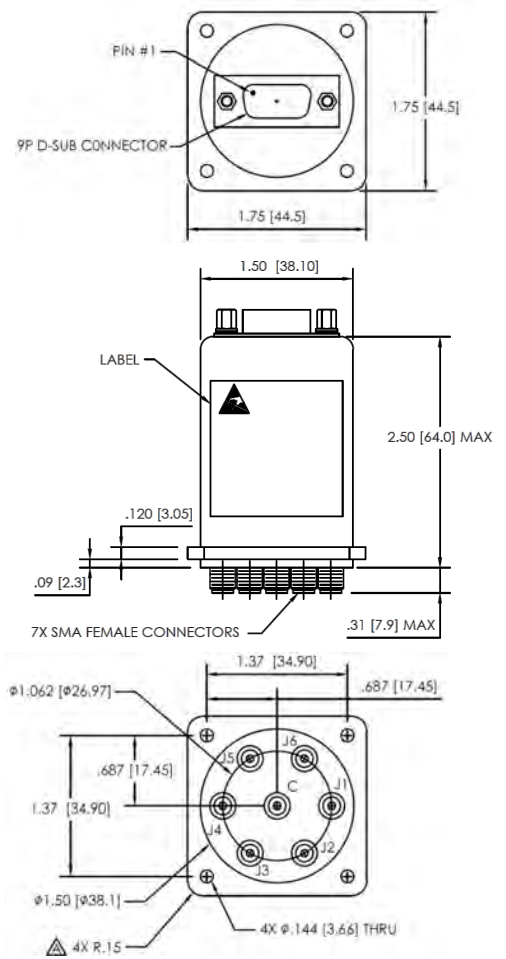


(SP5T) All Open Position



(SP6T w/TTL & Indicators) Position #1 Energized

Outline



Model Numbering System

Example: SP3T-0E-18A-D

(SP3T, SMA Connector, Normally Open without indicator, DC-18GHz, 12VDC, TTL Driver, D-Sub Control)

No. of Outputs		SP3T - 0E - 18A - D -				Control Options	
3 : SP3T						Default : D-Sub Control	
4 : SP4T						PIN : Pin Terminal Control	
5 : SP5T							
6 : SP6T							
Connector Type		Actuator Type		Frequency Range	Actuator Voltage		Options
0: SMA	6: SMB	E : Normally Open without Indicator		03 : DC-3GHz	A : 12VDC	E : 20VDC	H : High Power
1: N	7: 7/16 DIN	F : Normally Open with Indicator		08 : DC-8GHz	B : 15VDC	F : 5VDC	D : TTL Drivers with Diodes
2: TNC	8: BNC			12 : DC-12GHz	C : 28VDC	G : 18VDC	P : Positive + Common
3: RF PIN	9: K (2.92mm)			18 : DC-18GHz	D : 24VDC		I : Suppression Diodes
4: F (75Ω)	10: Mini DIN						E : Decoder
5: SC							Y : Moisture Seal
							C : Custom



RoHS



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

