

**S SERIES**  
**1P7T to 1P8T**  
**MULTI POSITION SWITCH**  
**DC- 6.5 GHz ◆ SC**

Click Here to  
Request Quote



The **S Series** features SC connectors and a frequency range of DC to 6.5 GHz and is designed for high power applications.

This series is available with latching self cut-off or normally open functions.

<b>RF Impedance:</b>	50 ohms nominal
<b>Temperature Range:</b>	-35°C to +85°C ambient
<b>Operating Life:</b>	1,000,000 cycles min.
<b>Switching Time:</b>	15 mSec max.
<b>Switching Sequence:</b>	Break Before Make
<b>Environmental:</b>	Designed in Accordance to MIL-DTL-3928 (Testing and Operation Modes)

**SPECIFICATIONS**

Frequency	VSWR (max.)	Insertion Loss (dB max.)	Isolation (dB min.)
DC-1 GHz	1.15	0.15	80
1-3 GHz	1.35	0.35	70
3-6.5 GHz	1.50	0.50	60

Actuator Current (typical)	12Vdc	12-15 Vdc	20-24 Vdc	24-30Vdc
Normally Open	240mA	240mA	170mA	140mA
Latching	280mA	280mA	270mA	220mA

\* If reduced coil current is required, please contact Factory.

**AVAILABLE OPTIONS**

OPTION 2 RF CONNECTORS	OPTION 4 VOLTAGE	OPTION 5 ACTUATOR	OPTION 6 FREQUENCY	OPTION 8 SPECIAL OPTIONS
5 - SC	1 - 6 Vdc +/- 10%	<b>Latching Self Cut-Off</b>		L - TTL (High)
	2 - 12 Vdc +/- 10% (USB Optional)	D - Diodes (USB Optional)	2 - DC to 6.5 GHz	LL - TTL (Low)
	3 - 24-30 Vdc	E - Diodes, Indicators (USB Optional)		1 - Bracket
	4 - 48 Vdc +/- 10%	<b>Normally Open</b>		F - Flange
	5 - 110 Vac +/- 10%	G - Diodes, Indicators (USB Optional)	<b>OPTION 7 POLARITY</b>	R - Reset (Latching Only)
	6 - 12-15 Vdc (USB Optional)	H - Indicators		0 - Not Applicable, USB
	7 - 18-20 Vdc	J - Diodes (USB Optional)		8 - Positive Common
<b>OPTION 3 TERMINALS</b>	8 - 20-24 Vdc	K - Standard	9 - Negative Common	C - BCD
1 - Solder Terminals		N - Failsafe to Position 1 - Standard		U - USB
2 - Circular Connector		R - Failsafe to Position 1 - Diodes		
4 - Sub Miniature D-Shell Connector		S - Failsafe to Position 1 - Diodes, Indicators		
5 - USB				

Please Note: USB integration can only be applied to Voltage Options 12Vdc, & 15Vdc, Polarity Option # 3, and Terminals Option # 3.

The switch has a mini-USB socket on the enclosure interface which provides communication between switch and computers. Additionally, the enclosure also has a Molex socket for 12Vdc connection, which is required to power RF switch. The switch is accompanied with a CD driver, a 3 ft. USB cable and a 12 Vdc AC/DC adapter.

<b>S</b>		<b>5</b>				<b>2</b>		
Option 1 Series	Option 1 Number of Positions	Option 2 RF Connectors	Option 3 Terminals	Option 4 Voltage	Option 5 Actuator	Option 6 Frequency	Option 7 Polarity	Option 8 Special Options

**DC TERMINAL FUNCTION**

PIN	LATCHING				NORMALLY OPEN					NORMALLY OPEN - FAILSAFE TO POSITION 1					
	D	D w/ TTL	E	E w/ TTL	J	K	J, K w/ TTL	G	H	G, H w/ TTL	N	R	N, R w/ TTL	S	S w/ TTL
1	NOTE #1	NOTE #1	NOTE #1	NOTE #1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	COM+/-	+A	COM+/-	+A	COM+/-	COM	+A	COM+/-	COM	+A	COM	COM+/-	+A	COM+/-	+A
3	1-/+	-B	1-/+	-B	1-/+	1	-B	1-/+	1	-B	2	2-/+	-B	2-/+	-B
4	2-/+	1	2-/+	1	2-/+	2	1	2-/+	2	1	3	3-/+	2	3-/+	2
5	3-/+	2	3-/+	2	3-/+	3	2	3-/+	3	2	4	4-/+	3	4-/+	3
6	4-/+	3	4-/+	3	4-/+	4	3	4-/+	4	3	5	5-/+	4	5-/+	4
7	5-/+	4	5-/+	4	5-/+	5	4	5-/+	5	4	6	6-/+	5	6-/+	5
8	6-/+	5	6-/+	5	6-/+	6	5	6-/+	6	5	7	7-/+	6	7-/+	6
9	7-/+	6	7-/+	6	7-/+	7	6	7-/+	7	6	8	8-/+	7	8-/+	7
10	8-/+	7	8-/+	7	8-/+	8	7	8-/+	8	7	N/A	N/A	8	N/A	8
11	N/A	8	N/A	8	N/A	N/A	8	N/A	N/A	8	N/A	N/A	N/A	N/A	N/A
A	N/A	N/A	COM	COM	N/A	N/A	N/A	COM	COM	COM	N/A	N/A	N/A	COM	COM
B	N/A	N/A	1	1	N/A	N/A	N/A	1	1	1	N/A	N/A	N/A	1	1
C	N/A	N/A	2	2	N/A	N/A	N/A	2	2	2	N/A	N/A	N/A	2	2
D	N/A	N/A	3	3	N/A	N/A	N/A	3	3	3	N/A	N/A	N/A	3	3
E	N/A	N/A	4	4	N/A	N/A	N/A	4	4	4	N/A	N/A	N/A	4	4
F	N/A	N/A	5	5	N/A	N/A	N/A	5	5	5	N/A	N/A	N/A	5	5
G	N/A	N/A	6	6	N/A	N/A	N/A	6	6	6	N/A	N/A	N/A	6	6
H	N/A	N/A	7	7	N/A	N/A	N/A	7	7	7	N/A	N/A	N/A	7	7
I	N/A	N/A	8	8	N/A	N/A	N/A	8	8	8	N/A	N/A	N/A	8	8

NOTE#1: RESET IF (R) OPTION IS SELECTED, OTHERWISE N/A

**SCHEMATICS**

Pages 139-143

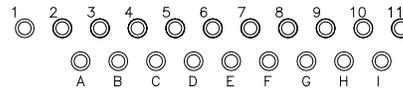
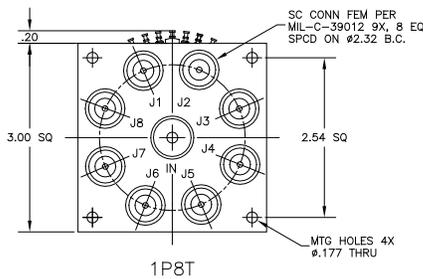
FIG.	25	26	25	26	29	29	30	29	29	30	33	33	34	33	34
------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

**OUTLINE DRAWING DIMENSION "A"**

2.70"	2.70"	2.70"	2.70"	2.30"	2.30"	2.47"	2.30"	2.30"	2.47"	2.30"	2.30"	2.47"	2.30"	2.47"
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

**DC TERMINAL VIEW**

**BOTTOM VIEW**



1P7T

**FRONT VIEW**

