

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

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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.

RF Impedance:	50 ohms nominal
Temperature Range:	-35°C to +85°C ambient
Operating Life:	1,000,000 cycles min.
Switching Time:	15 mSec max.
Switching Sequence:	Break Before Make
Environmental:	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% 2 - 12 Vdc +/- 10% (USB Optional)	Latching Self Cut-Off		2 - DC to 6.5 GHz	L - TTL (High) LL - TTL (Low) 1 - Bracket F - Flange R - Reset (Latching Only) C - BCD U - USB
		D - Diodes (USB Optional) E - Diodes, Indicators (USB Optional)			
OPTION 3 TERMINALS	3 - 24-30 Vdc 4 - 48 Vdc +/- 10% 5 - 110 Vac +/- 10% 6 - 12-15 Vdc (USB Optional)	Normally Open		OPTION 7 POLARITY	
		G - Diodes, Indicators (USB Optional) H - Indicators J - Diodes (USB Optional) K - Standard N - Failsafe to Position 1 - Standard R - Failsafe to Position 1 - Diodes S - Failsafe to Position 1 - Diodes, Indicators	0 - Not Applicable, USB 8 - Positive Common 9 - Negative Common		
1 - Solder Terminals 2 - Circular Connector 4 - Sub Miniature D-Shell Connector 5 - USB	7 - 18-20 Vdc 8 - 20-24 Vdc				

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.

S		5				2		
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

High quality microwave and millimeter wave components and subsystems. Visit Ducommun RF Products online at www.ducommun.com or contact us at 310.513.7200. All specifications are subject to change without notice.

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

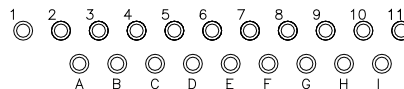
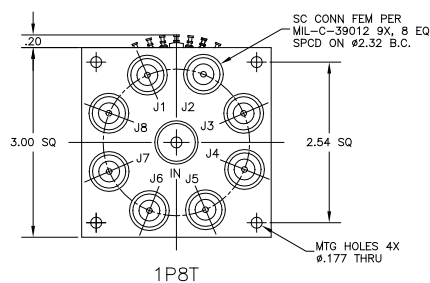
FIG.	25	26	25	26	29	29	30	29	29	30	33	33	34	33	34
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OUTLINE DRAWING DIMENSION "A"

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"
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DC TERMINAL VIEW

BOTTOM VIEW



FRONT VIEW

