

**HS SERIES**  
**SP7T to SP10T**  
**MULTI POSITION SWITCH**  
**DC-16 GHz ◆ SMA**

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The **HS Series** features SMA connectors and a frequency range of DC to 16 GHz.

This series is available with failsafe or normally open functions. Please contact Factory for latching and pulse latching design availability.

<b>Weight (max.):</b>	15 oz
<b>RF Impedance:</b>	50 ohms nominal
<b>Operating Temperature:</b>	-25°C to +65°C ambient
<b>Operating Life:</b>	Contact Factory for Details
<b>Switching Sequence:</b>	Break Before Make

**SPECIFICATIONS**

Frequency	VSWR (max.)	Insertion Loss (dB max.)	Isolation (dB min.)
DC-4 GHz	1.25	0.30	75
4-8 GHz	1.30	0.35	70
8-12 GHz	1.40	0.40	65
12-16 GHz	1.60	0.80	60

Actuator Current (typical)	12Vdc	15 Vdc	24 Vdc	28Vdc
Failsafe	600mA	470mA	300mA	280mA
Normally Open	310mA	250mA	155mA	135mA

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

Positions	NO	NC	Latching
Switching Time - mSec (Max)	15	35	N/A

**AVAILABLE OPTIONS**

OPTION 3 VOLTAGE	OPTION 4 ACTUATOR				OPTION 5 POLARITY
1 - 12 Vdc	<b>Failsafe</b>				1 - Negative
2 - 28 Vdc	A - Standard	C - Indicators	<b>Normally Open</b>		2 - Positive
3 - 15 Vdc	B - Diodes	D - Diodes, Indicators	L - Standard	N - Indicators	3 - Not Applicable / USB
5 - Other	BY - Diodes with USB	DY - Diodes, Indicator with USB	M - Diodes	P - Diodes, Indicators	<b>OPTION 6 TERMINALS</b>
6 - 24 Vdc			MY - Diodes with USB	PY - Diodes, Indicator with USB	
7 - 5 Vdc					1 - Solder Terminals
	<b>Low Input Drivers with:</b>	<b>High Input Drivers with:</b>	<b>Low Input Drivers with:</b>	<b>High Input Drivers with:</b>	2 - Circular Connector
	E - Diodes	EH - Diodes	R - Diodes	RH - Diodes	3 - Other (Specify) / USB
	F - Diodes, Indicators	FH - Diodes, Indicators	S - Diodes, Indicators	SH - Diodes, Indicators	4 - Sub Miniature D-Shell Connector
	EB - B C D, Diodes	EBH - B C D, Diodes	RB - B C D, Diodes	RBH - B C D, Diodes	
	FB - B C D, Diodes, Indicators	FBH - B C D, Diodes, Indicators	SB - B C D, Diodes, Indicators	SBH - B C D, Diodes, Indicators	

**ADDITIONAL OPTIONS**

OPTION 7 STANDARD OPTIONS
1 - Moisture Seal
2 - High Temperature (125° C)
3 - Moisture Seal & High Temperature (125° C)
OPTION 8 BRACKETS
H - See Page 146
OPTION 9 BODIES
V - See Page 150

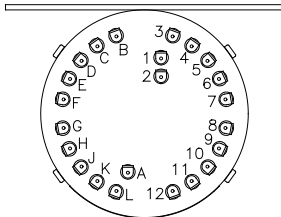
Please Note: USB integration can only be applied to Voltage Options 5Vdc, 12Vdc, & 15Vdc, Polarity Option # 3, and Terminals Option # 3. Schematics may include optional Indicator Contacts. If your Actuator Option does not include Indicator Contacts, omit them from the schematic.

For "Additional Options" please contact Factory for part number

**HS**

<b>Option 1</b> Positions	<b>Option 2</b> Series	<b>Option 3</b> Voltage	<b>Option 4</b> Actuator	<b>Option 5</b> Polarity	<b>Option 6</b> Terminals
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**TOP VIEW**



Actual markings will reflect terminal functions, not letter or number designation as shown above.

**DC TERMINAL FUNCTIONS**

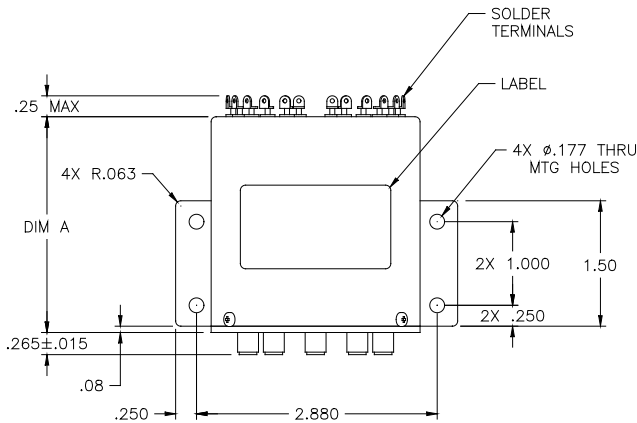
PIN	FAILSAFE			NORMALLY OPEN		
	A, C	B, D	E, EH, EB, EBH, F, FH, FB, FBH	L, N	M, P	R, RH, RB, RBH, S, SH, SB, SBH
1	C	C+/-	+V SW	C	C+/-	+V SW
2	N/A	N/A	C RTN	N/A	N/A	C RTN
3	N/A	N/A	N/A or BCD 1	AV 1	AV 1-/+	L 1 or BCD 1
4	AV 2	AV 2-/+	L 2 or BCD 2	AV 2	AV 2-/+	L 2 or BCD 2
5	AV 3	AV 3-/+	L 3 or BCD 4	AV 3	AV 3-/+	L 3 or BCD 4
6	AV 4	AV 4-/+	L 4 or BCD 8	AV 4	AV 4-/+	L 4 or BCD 8
7	AV 5	AV 5-/+	L 5	AV 5	AV 5-/+	L 5
8	AV 6	AV 6-/+	L 6	AV 6	AV 6-/+	L 6
9	AV 7	AV 7-/+	L 7	AV 7	AV 7-/+	L 7
10	AV 8	AV 8-/+	L 8	AV 8	AV 8-/+	L 8
11	AV 9	AV 9-/+	L 9	AV 9	AV 9-/+	L 9
12	AV 10	AV 10-/+	L 10	AV 10	AV 10-/+	L 10

**SCHEMATICS**

Pages 132-137

	M1	M2	M3, M4	M5	M6	M7, M8
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**FRONT VIEW**

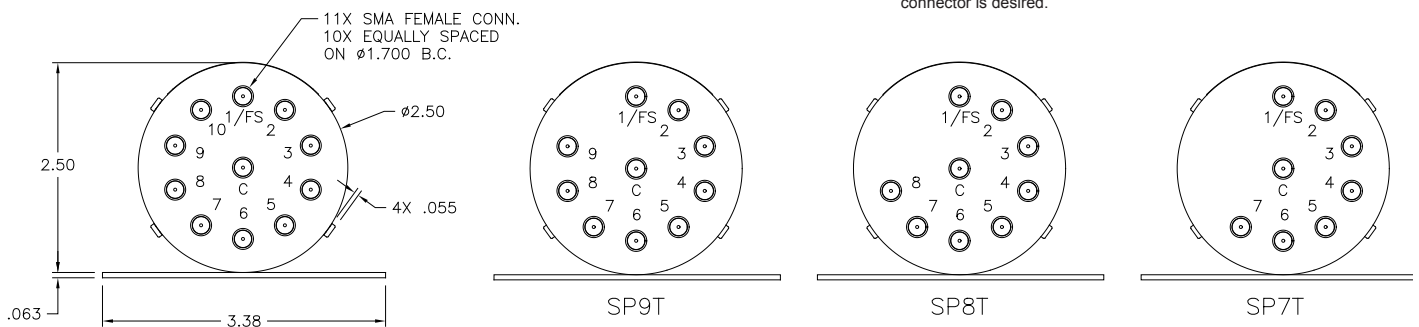


**INDICATORS**

PIN #	A	B	C	D	E	F	G	H	J	K	L
	COM	1 or F/S	2	3	4	5	6	7	8	9	10

See Page 158 for Legend of Terms and Tolerances  
 See Page 138 for Logic & BCD Truth Table

**BOTTOM VIEW**



\* Consult factory for Dimension "A" when multi-pin connector is desired.