



Model: SW-S000-6S

Description:	SP6T, Reflective, PIN-Switch	
Operating Frequency:.....	2 – 18 GHz	
Insertion Loss:.....	3.3 dB Max	
Isolation:	65 dB Min	
VSWR (“ON” paths):.....	2:1 Max	
Rise/Fall time (10% to 90% RF, 90% to 10% RF): ...	20 ns Max	
On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF):	60 ns Max	
Phase Balance (Deviation from Median):	±6° max	
Operating Power:	CW&AVG	+30 dBm Max
.....	Peak:.....	10W @ 1µS PW & 10% Duty-Cycle Max
Control Input Characteristics:	Std. TTL / Unit-Load / Floating-High	
Control Logic:	6-Controls, Logic “0” = RF Path “ON”	
Power Supplies:	+5(±0.25)V @ 220 mA Max	
.....	-12(±0.5)V @ 80 mA Max	
Connectors (RF):.....	SMA (f), Removable	
Connectors (Supplies/Controls)	Solder Pins	
Impedance:	50 Ohms Nominal	
Quality:	Best-Commercial-Grade	

Environmental Ratings:

Temperature:	{Operating: -55°C to +95°C} & {Storage: -60°C to +110°C}
Humidity:.....	MIL-STD-202F, Method 103B, Cond. B (96 hours at 95% R.H.)
Shock:.....	MIL-STD-202F, Method 213B, Cond. B (75G, 6mSec)
Vibration:.....	MIL-STD-202F, Method 204D, Cond. B (.06” double amplitude, or 15G)
Altitude:.....	MIL-STD-202F, Method 105C, Cond. B (50,000 Feet)
Temp. Shock:.....	MIL-STD-202F, Method 107D, Cond. A (5 cycles)

Available Options:

(Units with listed options here may be subject to some specification tradeoffs from the standard, consult factory)

■ **Supply Voltages**

- A1 [+5(±0.25)V / -5(±0.25)V] *
- A2 [+5(±0.25)V / -15(±0.5)V]
- A3 [+12(±0.5)V / -12(±0.5)V]
- A4 [+15(±0.5)V / -15(±0.5)V]

■ **RF Connectors**

- B1 [J1 – J6 Ports with SMA(M)]
- B2 [All SMA (M)]
- B3 [COM Port with SMA(M)]

■ **Control Function**

- F1 [Inverse Logic, (“1” = Path “ON”)]

■ **Video Suppression Filter**

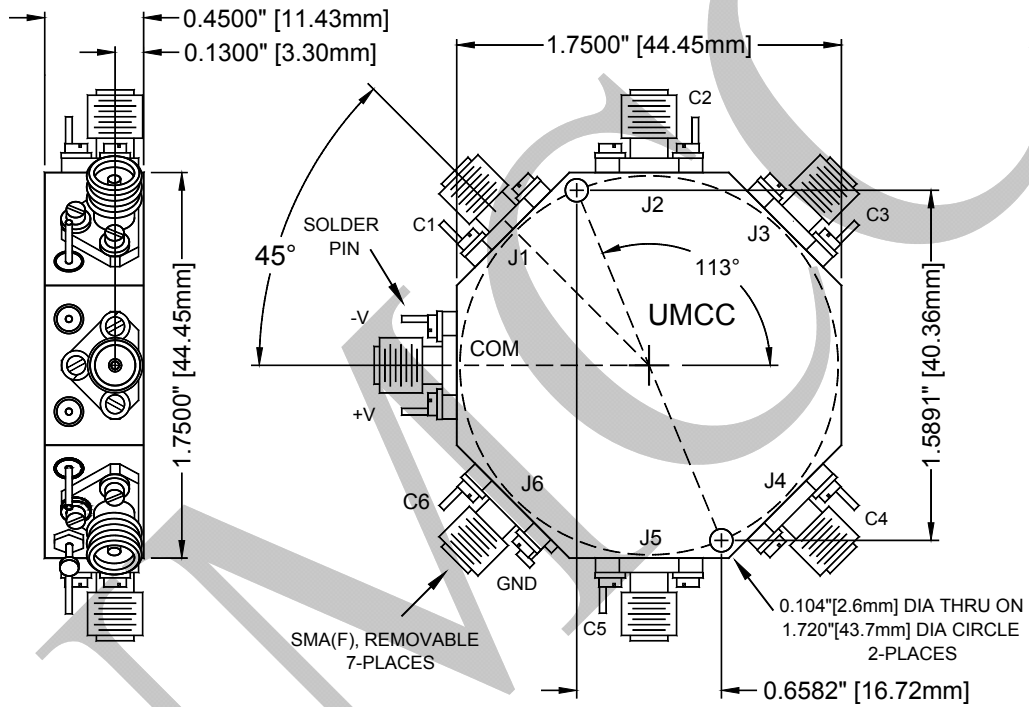
- G1 [VF @ COM Port <> 0.25 dB additional Loss]
- G2 [VF @ J1 – J6 Ports <> 0.25 dB additional Loss]
- G3 [VF @ All Ports <> 0.5 dB additional Loss]

* Recommended for Low Power Consumption <> Additional Switching Delay (ON/OFF time)



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Outline



Weight	Tolerances
1.80 oz [51.0g]	±0.015" [±0.38mm]