



**Model: SW-B300-2S**

Description: .....	SP2T, Reflective, PIN-Switch
Operating Frequency:.....	20 – 6000 MHz
Insertion Loss:.....	2.7 dB Max
Isolation (Arm-to-Arm):.....	70 dB Min
VSWR (“ON” paths): .....	20-30MHz ..... 1.7:1 Max
.....	30-6000 MHz ..... 1.5:1 Max
Rise/Fall time (10% to 90% RF, 90% to 10% RF): ...	200 ns Max
On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF): .....	300 ns Max
Phase Balance (Deviation from Median):.....	±1° max
Operating Power: .....	CW / AVG ..... +27 dBm Max *
.....	* ..... {+23dbm Max below 100MHz}
Peak: .....	5W @ 5µS PW Max
Control Input Characteristics: .....	TTL /Unit-Load, Floating-High
Control Logic: .....	2-Controls, Logic “0” = RF Path “ON”
Power Supplies: .....	+5(±0.25)V @ 60mA Max
.....	-12(±0.5)V @ 60mA Max
Connectors (RF):.....	SMA (f), Removable
Connectors (Supplies/Controls) .....	Solder Pins
Impedance: .....	50 Ω 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 & J2 Ports with SMA(M) ]
- B2 [ All SMA (M) ]
- B3 [ COM Port with SMA(M) ]

■ **Control Connectors**

- C1 [ SMC(Jack), 50 Ω ]
- C2 [ SMB(Jack), 50 Ω ]

■ **Control Impedance**

- D1 [ 50 Ω, Internally Terminated ]

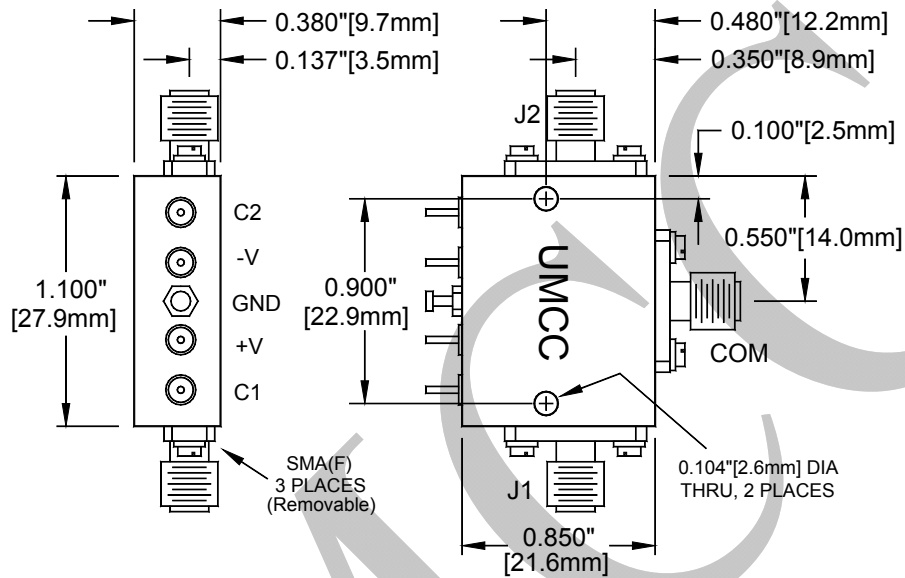
■ **Control Function**

- F1 [ Inverse Logic, (“1” = Path “ON”) ]
- F2 [ Single Toggle Control (“1” for J1 path “ON”) ]



**Model: SW-B300-2S**

**Outline**



Weight	Tolerances
0.7 oz [19.8 g]	±0.015" [±0.38mm]