



**Model: SW-B210-2S**

Description: ..... SP2T, Absorptive, PIN-Switch  
Operating Frequency:..... 20 – 6000 MHz  
Insertion Loss:..... 2.0 dB Max  
Isolation (Arm-to-Arm):

20 – 500 MHz	0.5 - 3 GHz	3 - 6 GHz
80 dB Min	65 dB Min	60 dB

VSWR (“ON” paths & “OFF” ports):..... 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 @ 90mA 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 ]

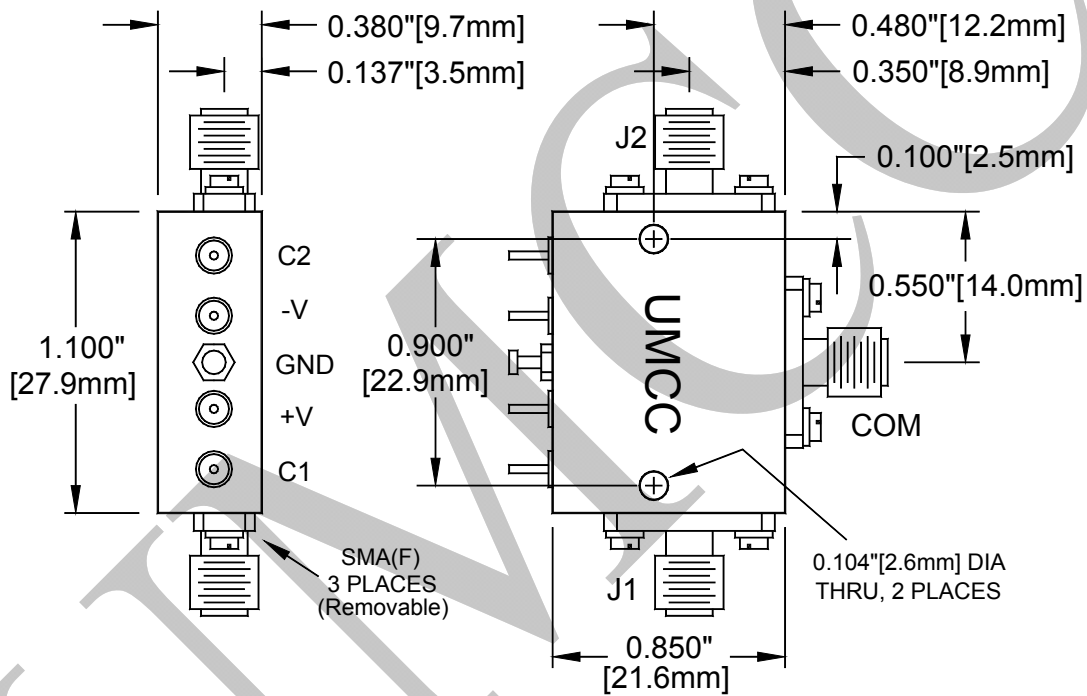
■ **Control Function**

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



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**Outline**



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