



**Model: SW-S270-2S**

Description:..... SP2T, Absorptive, PIN-Switch  
Operating Frequency:..... 2 - 18 GHz  
Insertion Loss: ..... 2.5dB Max  
Isolation:

2 – 10 GHz	10 – 18 GHz
70dB Min	60 dB Min

VSWR (RF Path “ON” or “OFF”): ..... 1.8:1 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): ..... 60ns Max  
Phase Balance (Deviation from Median):..... ±5° max  
Operating Power:..... CW & AVG..... +24dBm  
..... Peak: ..... 5W @ 1µS 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 @ 75mA Max  
..... -12(±0.5) V @ 50mA Max  
Connectors (RF):..... SMA (f), Removable  
Connectors (Supplies/Control) ..... 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 & 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”) ]

■ **Video Suppression Filter**

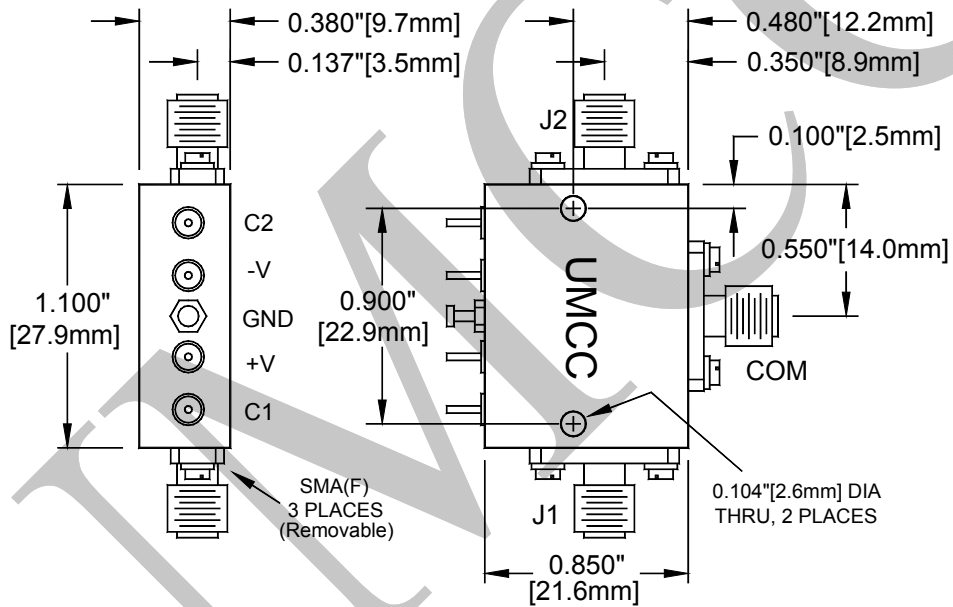
- G1 [ VF @ COM Port <> 0.25 dB additional Loss ]
- G2 [ VF @ J1 & J2 Ports <> 0.25 dB additional Loss ]
- G3 [ VF @ All Ports <> 0.5 dB additional Loss ]

\* Recommended for Low Power Consumption <> Additional 10ns Switching Delay (ON/OFF Time)



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**Outline**



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