



**Model: SR-P270-2S**

Description: ..... SP2T, Absorptive, PIN-Switch  
Operating Frequency:..... 2 - 20 GHz  
Insertion Loss:

2 -18 GHz	18 - 20 GHz
2.5 dB Max	3.2 dB Max

Isolation:..... 55 dB  
VSWR (RF Path "ON" or "OFF"): ..... 1.8:1 Max  
Rise/Fall time (10% to 90% RF, 90% to 10% RF):..... 20ns Max  
On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF):..... 60ns Max  
Phase Balance (Deviation from Median):..... ±6° 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 ]

■ **Control Function**

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

■ **RF Connectors**

- B1 [ J1 & J2 Ports with SMA(M) ]
- B2 [ All SMA (M) ]
- B3 [ COM Port with SMA(M) ]

■ **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 ]

■ **Control Impedance**

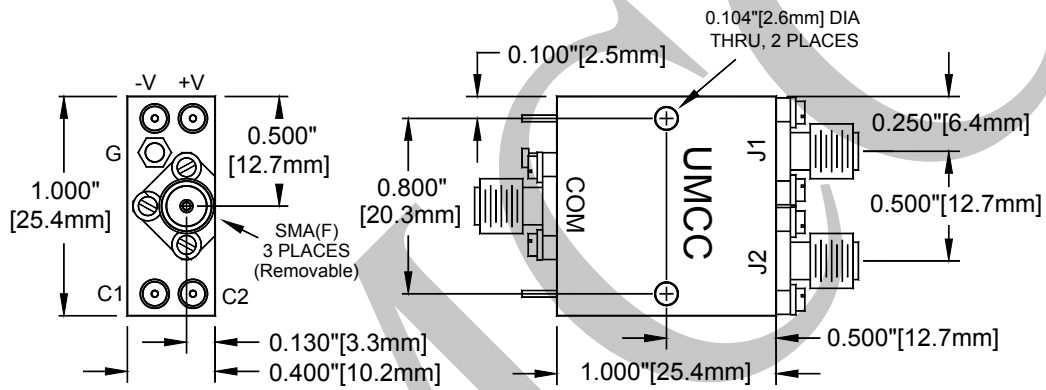
- D1 [ 50 Ω, Internally Terminated ]

\* 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]