



Model: SW-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]
- 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**

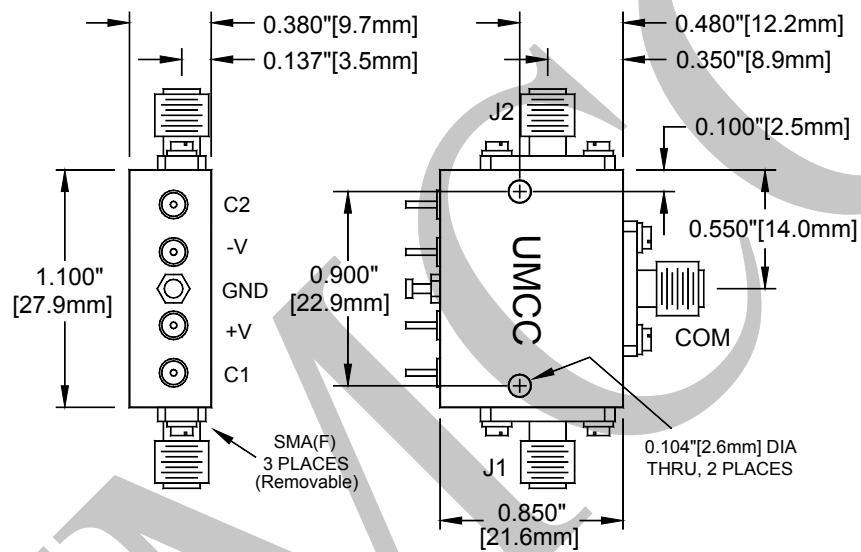
- G1 [VF @ COM Port <> 0.25 dB additional Loss]
- G2 [VF @ J1 & J2 Ports <> 0.25 dB additional Loss]
- G3 [VF @ All Ports <> 0.5 dB additional Loss]

* 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]