



Model: SW-S510-2S

Description:..... SP2T, Absorptive, PIN-Switch
 Operating Frequency:..... 2 - 18 GHz
 Insertion Loss:..... 2.7 dB Max
 Isolation (Arm-to-Arm):

2 – 9 GHz	9 – 18 GHz
70 dB Min	60 dB Min

VSWR (RF Path “ON” or “OFF”):..... 1.7:1 Max
 Rise/Fall time (10% to 90% RF, 90% to 10% RF):..... 15 ns Max
 On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF):..... 40 ns Max
 Phase Balance (Deviation from Median):..... ±4° max
 Operating Power:..... CW & AVG..... +27dBm Max*
 *..... (+24dBm Max into “JX” Port @ Off-State)
 Peak:..... 5W @ 1µS PW & 10% Duty-Cycle Max
 Control Input Characteristics:..... Std. 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 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**

- 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”)]

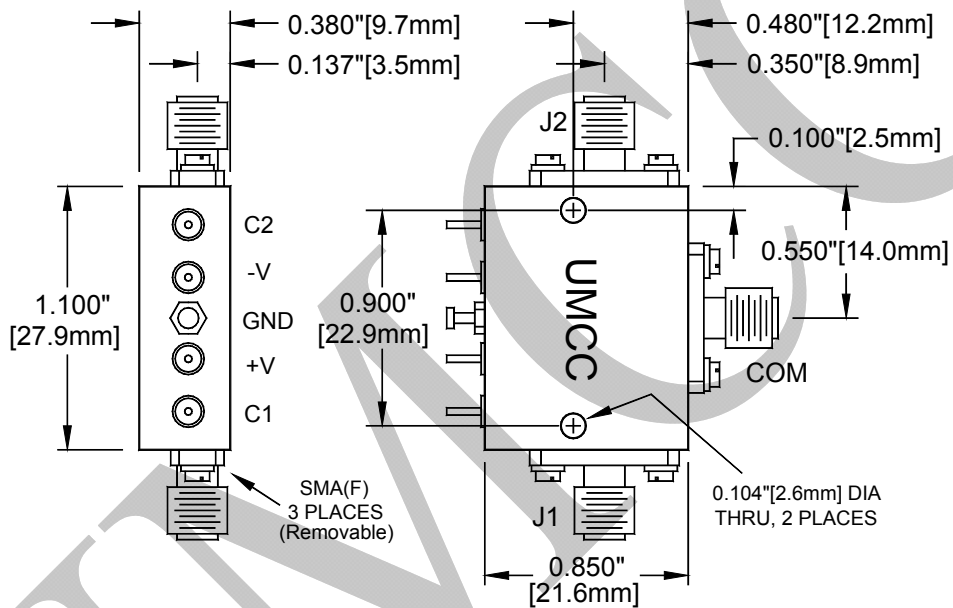
■ **Video Suppression Filter**

- 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]



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Outline



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