



Model: SW-V010-2S

Description:..... SP2T, Absorptive, PIN-Switch

Operating Frequency:..... 0.1 - 18 GHz

Insertion Loss:

| | | |
|---------------|--------------|-------------|
| 0.1 – 0.5 GHz | 0.5 – 10 GHz | 10 – 18 GHz |
| 3.3 dB Max | 2.6 dB Max | 3.3 dB Max |

Isolation:

| | |
|--------------|-------------|
| 0.1 – 10 GHz | 10 – 18 GHz |
| 70 dB Min | 60 dB Min |

VSWR (RF Path “ON” or “OFF”): 1.9:1 Max
 Rise/Fall time (10% to 90% RF, 90% to 10% RF):..... 35 ns Max
 On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF): 120 ns Max
 Phase Error (Port-to-Port): ±10° max
 Operating Power:..... CW & AVG..... +24dBm (+27dbm @ COM Port)
 Peak: 8W @ 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**

- 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]

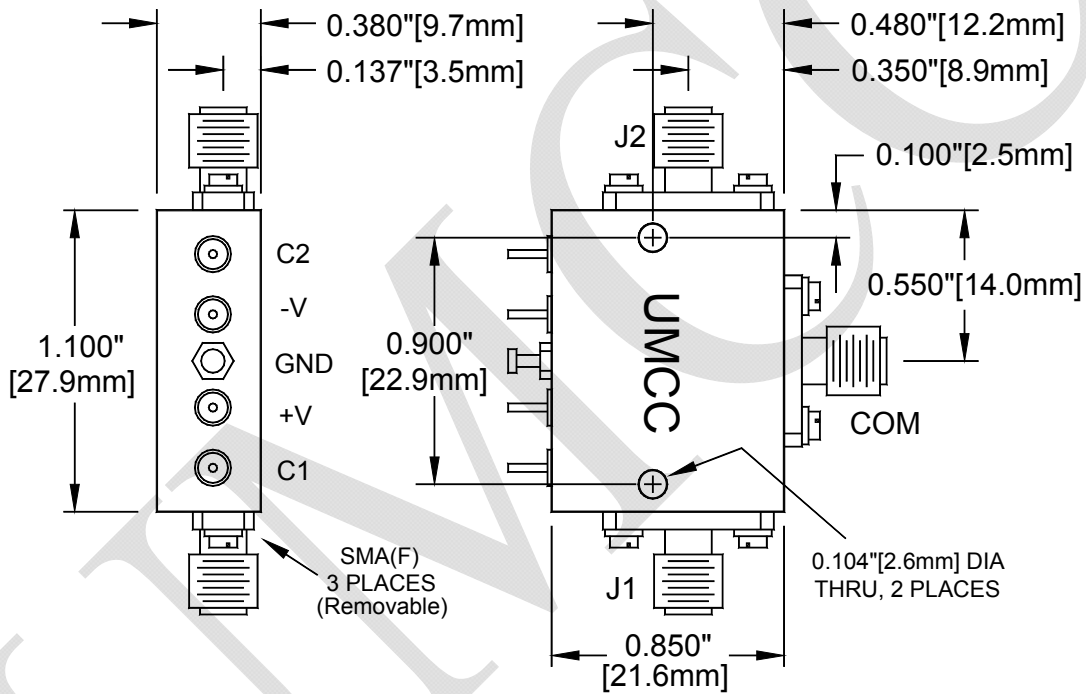
■ **Control Function**

- 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] |