



Model: SW-U010-2S

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

Operating Frequency:..... 0.5 - 18 GHz

Insertion Loss:

0.5 – 10 GHz	10 – 18 GHz
2.5 dB Max	3.3 dB Max

Isolation:

0.5 – 10 GHz	10 – 18 GHz
70 dB 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):..... 30 ns Max

On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF): 60 ns Max

Phase Error (Port-to-Port): $\pm 7^\circ$ max

Operating Power:..... CW & AVG..... +24dBm (+27dbm @ COM Port)

..... Peak: 8W @ 1 μ S 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]

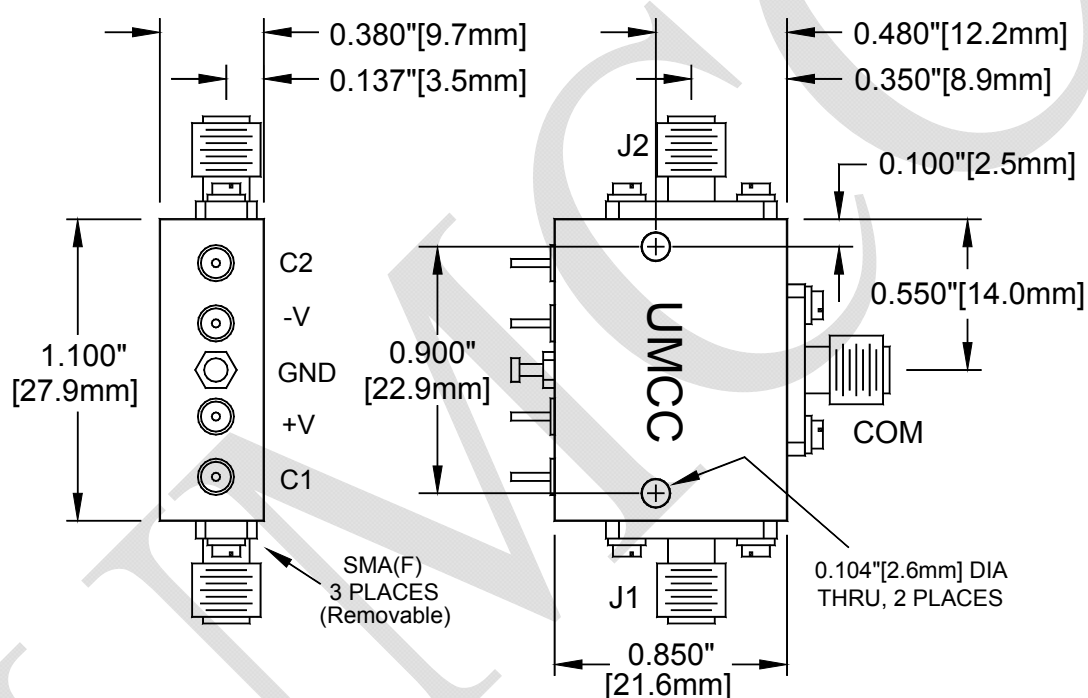
G2 [VF @ J1 & J2 Ports <> 0.25 dB additional Loss]

G3 [VF @ All Ports <> 0.5 dB additional Loss]



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Outline



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