



**Model: SW-J010-4S**

Description:..... SP4T, Absorptive, PIN-Switch

Operating Frequency:..... 0.5 – 12.4 GHz

Insertion Loss:

| 0.5 – 6 GHz | 6 – 12.4 GHz |
|-------------|--------------|
| 2.2 dB Max  | 2.6 dB Max   |

Isolation:

| 0.5 – 6 GHz | 6 – 12.4 GHz |
|-------------|--------------|
| 65 dB Min   | 55 dB Min    |

VSWR (RF Path “ON” or “OFF”): ..... 1.7:1 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):..... 60 ns Max

Phase Error (Port-to-Port): ..... ±5° max

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

..... Peak: ..... 8W @ 1μS PW Max

Control Input Characteristics: ..... TTL /Unit-Load / Floating-High

Control Logic:..... 4-Controls, Logic “0” = RF Path “ON”

Power Supplies:..... +5(±0.25)V @ 140mA Max

..... -12(±0.5)V @ 70mA Max

Connectors (RF): ..... SMA (f), Removable

Connectors (Supplies/Controls) ..... 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 – J4 Ports with SMA(M) ]

B2 [ All SMA (M) ]

B3 [ COM Port with SMA(M) ]

■ **Control Function**

F1 [ Inverse Logic, (“1” = Path “ON”) ]

F2 [ 2-BCD Control + Enable ]

■ **Video Suppression Filter**

G1 [ VF @ COM Port <> 0.25 dB additional Loss ]

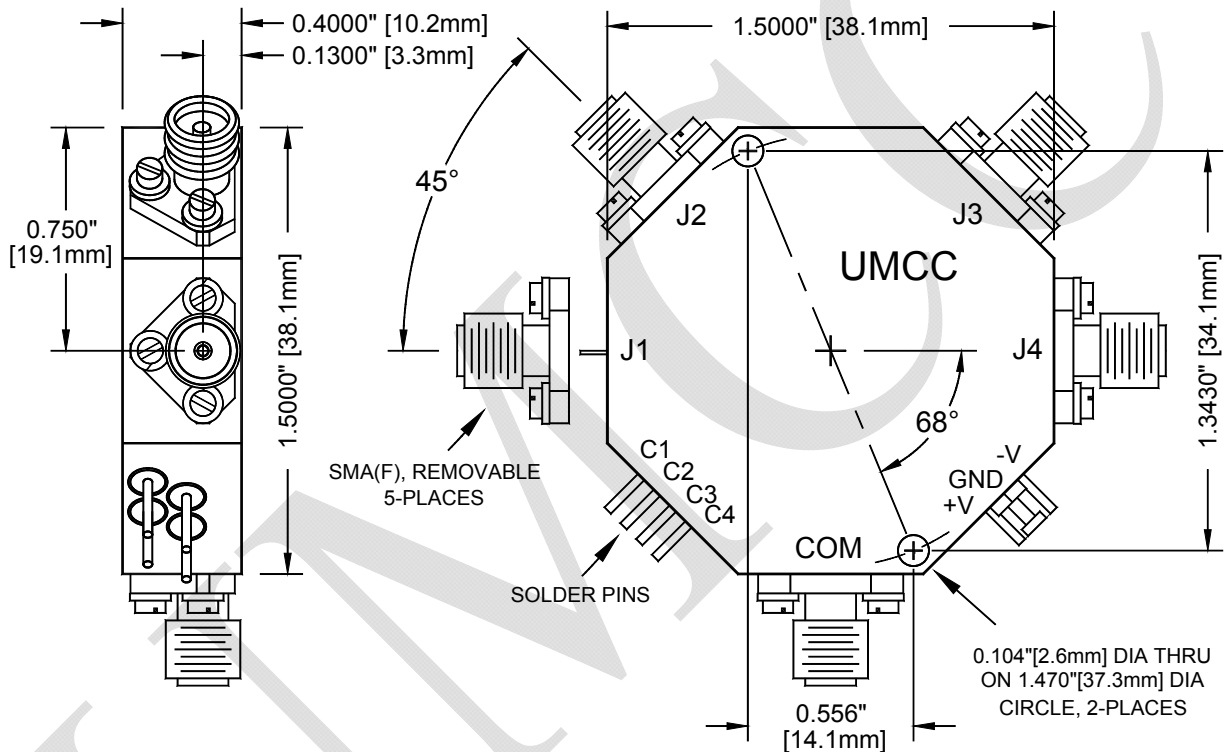
G2 [ VF @ J1 – J4 Ports <> 0.25 dB additional Loss ]

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



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**Outline**



| Weight         | Tolerances        |
|----------------|-------------------|
| 1.2 oz [34.0g] | ±0.015" [±0.38mm] |