



Model: SW-P010-4S

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

Operating Frequency:..... 2 – 20 GHz

Insertion Loss:

2 – 14 GHz	14 – 20 GHz
2.9 dB Max	3.5 dB Max

Isolation:

2 – 14 GHz	14 – 20 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): ... 25 ns Max

On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF):..... 50 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:..... 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]

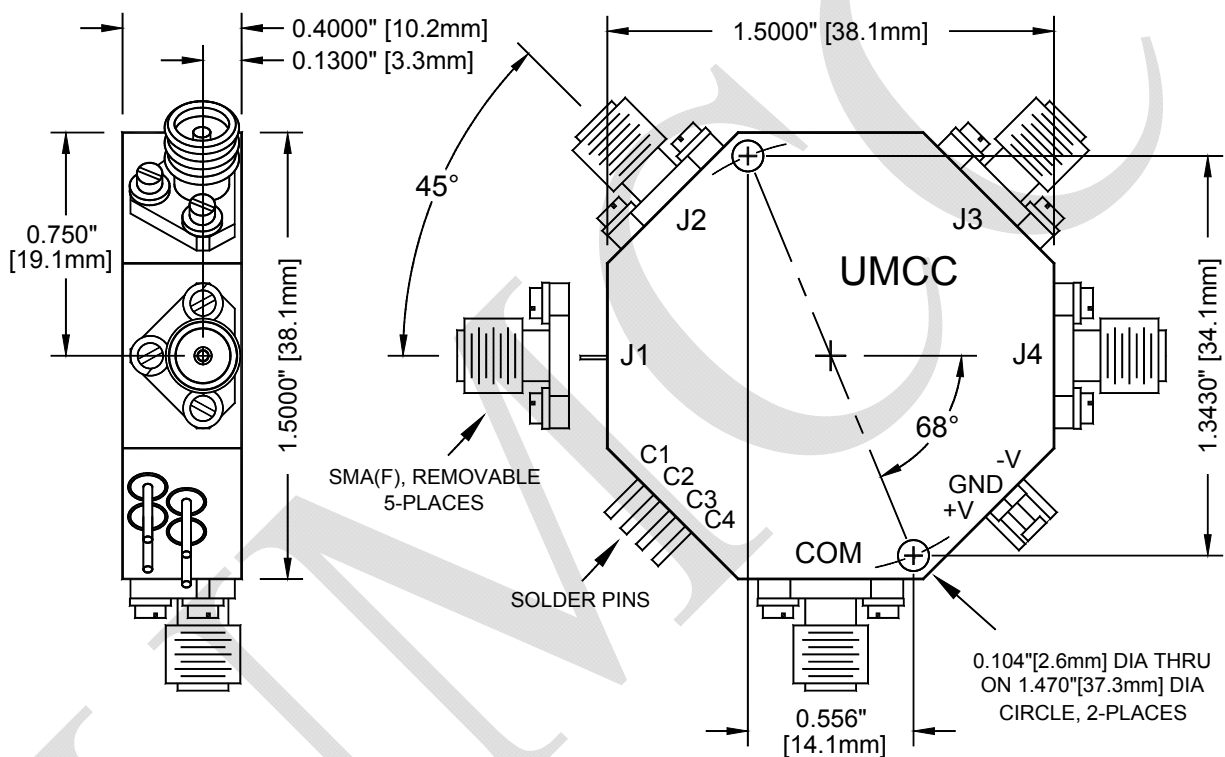
G2 [VF @ J1 – J4 Ports <> 0.25 dB additional Loss]

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]