



Model: SW-V010-4S

Description:..... SP4T, 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	2.7 dB Max	3.7 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:..... 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**

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)]

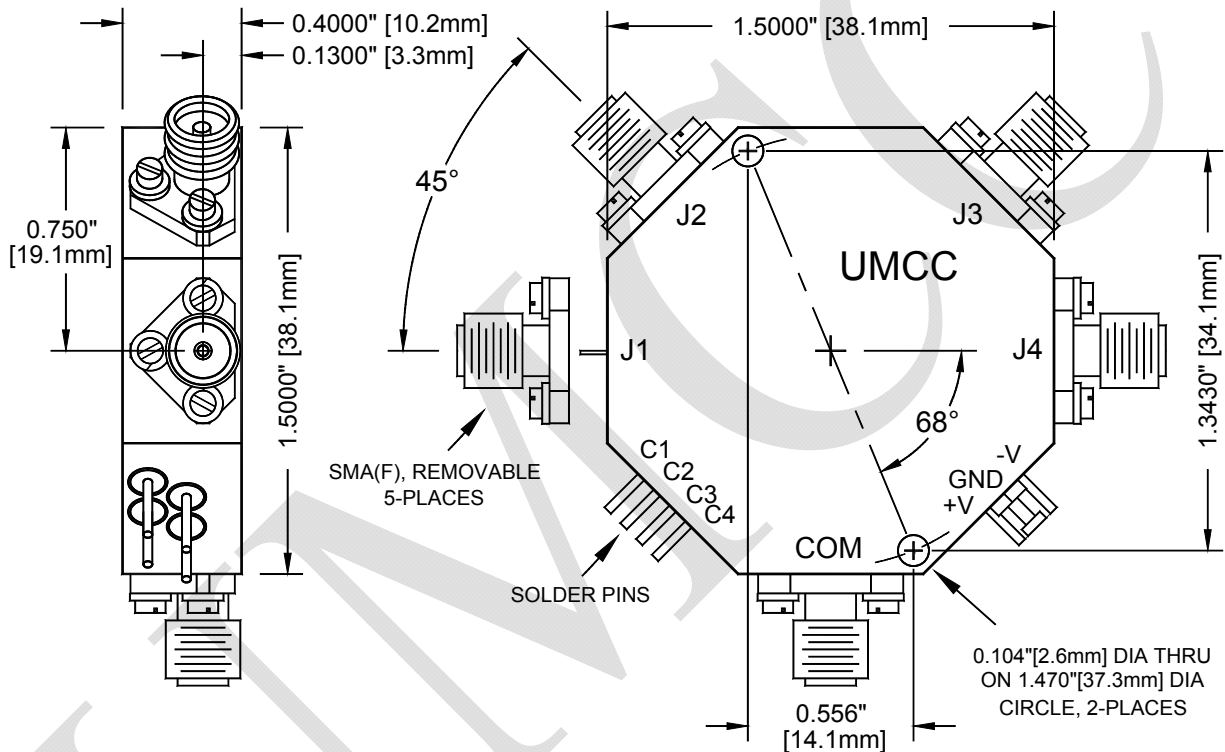
■ **Control Function**

F1 [Inverse Logic, (“1” = Path “ON”)]
F2 [2-BCD Control + Enable]



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Outline



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