



Model: SW-V000-4S

| | |
|---|--------------------------------------|
| Description:..... | SP4T, Reflective, PIN-Switch |
| Operating Frequency:..... | 0.1 – 18 GHz |
| Insertion Loss: | 3.1 dB Max |
| Isolation (Arm-to-Arm): | 70 dB Min |
| VSWR (“ON” paths):..... | 1.9:1 Max |
| Rise/Fall time (10% to 90% RF, 90% to 10% RF): ... | 50 ns Max |
| On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF):..... | 150 ns Max |
| Phase Balance (Deviation from Median):..... | ±7° max |
| Operating Power:..... | CW / AVG |
| | +30 dBm Max * |
| | {+27dbm Max below 300MHz} |
| | Peak: |
| | 5W @ 1µS PW Max / 10% Duty-Cycle Max |
| Control Input Characteristics: | Std. TTL / Unit-Load / Floating-High |
| Control Logic:..... | 4-Controls, Logic “0” = RF Path “ON” |
| Power Supplies:..... | +5(±0.25)V @ 160mA Max |
| | -12(±0.5)V @ 70mA Max |
| Connectors (RF):..... | SMA (f), Removable |
| Connectors (Supplies/Controls) | Solder Pins |
| Impedance: | 50 Ω 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)]

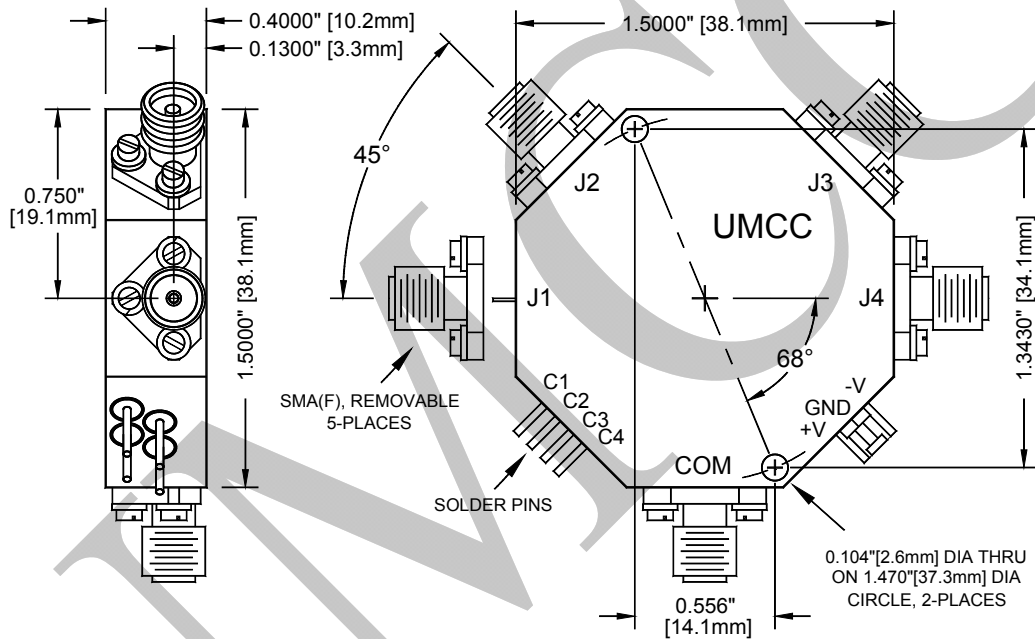
■ **Control Function**

- F1 [Inverse Logic, (“1” = Path “ON”)]
- F2 [2-Bit Binary Controls + Enable] ; see below for “Outline Drawing” and “Function Table”



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Outline

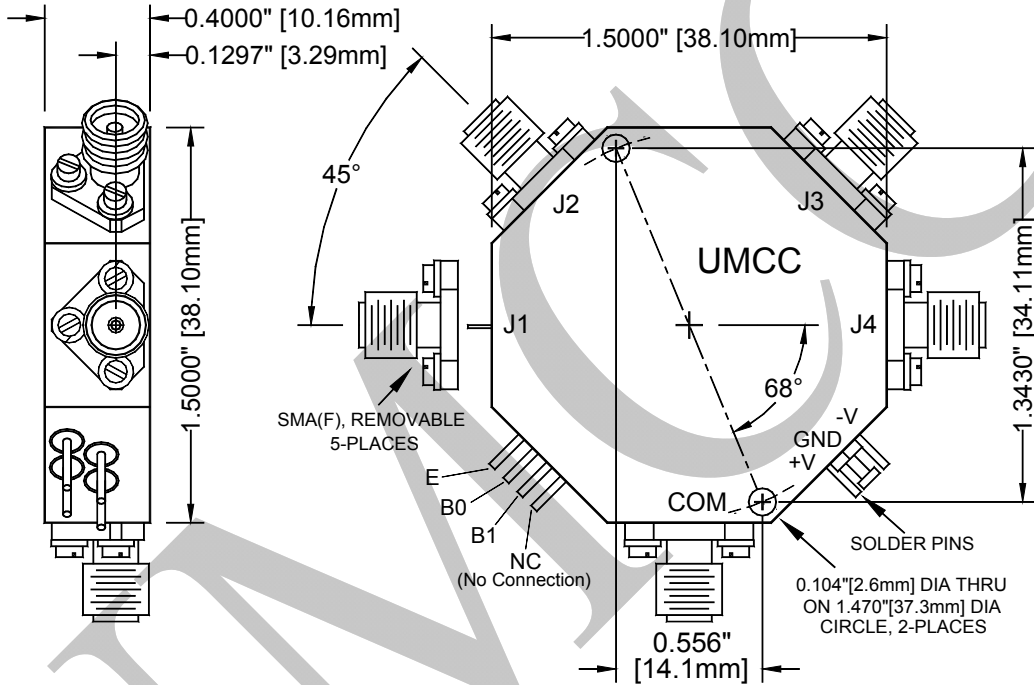


| Weight | Tolerances |
|----------------|-------------------|
| 1.2 oz [34.0g] | ±0.015" [±0.38mm] |



Model: SW-V000-4S

Outline Drawing (SP4T Radial with Option "F2")



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

Function Table for Option "F2" (2-Bit Binary Control + Enable)

| INPUTS | | | RF PATH | | | |
|--------|----|----|---------|-----|-----|-----|
| E | B1 | B0 | J1 | J2 | J3 | J4 |
| 1 | 0 | 0 | ON | OFF | OFF | OFF |
| 1 | 0 | 1 | OFF | ON | OFF | OFF |
| 1 | 1 | 0 | OFF | OFF | ON | OFF |
| 1 | 1 | 1 | OFF | OFF | OFF | ON |
| 0 | X | X | OFF | OFF | OFF | OFF |