



Model: SW-G01W-4S

Description: SP4T, Absorptive, PIN-Switch
Operating Frequency: 0.3 – 20 GHz
Insertion Loss: 3.3 dB Max
Isolation (Arm-to-Arm):

Table with 2 columns: 0.3 – 12 GHz, 12 – 20 GHz. Row 1: 80 dB Min, 70 dB Min.

VSWR (RF Path "ON" or "OFF"): 1.8:1 Max
Rise/Fall time (10% to 90% RF, 90% to 10% RF): 150 ns Max
On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF): 250 ns Max
Phase Balance (Deviation from Median): ±5° max
Operating Power: CW & AVG: +27dBm Max \*
\* (+24dBm Max into "JX" Port @ Off-State)
Peak: 5W @ 1µS PW & 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 @ 140mA 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) ]

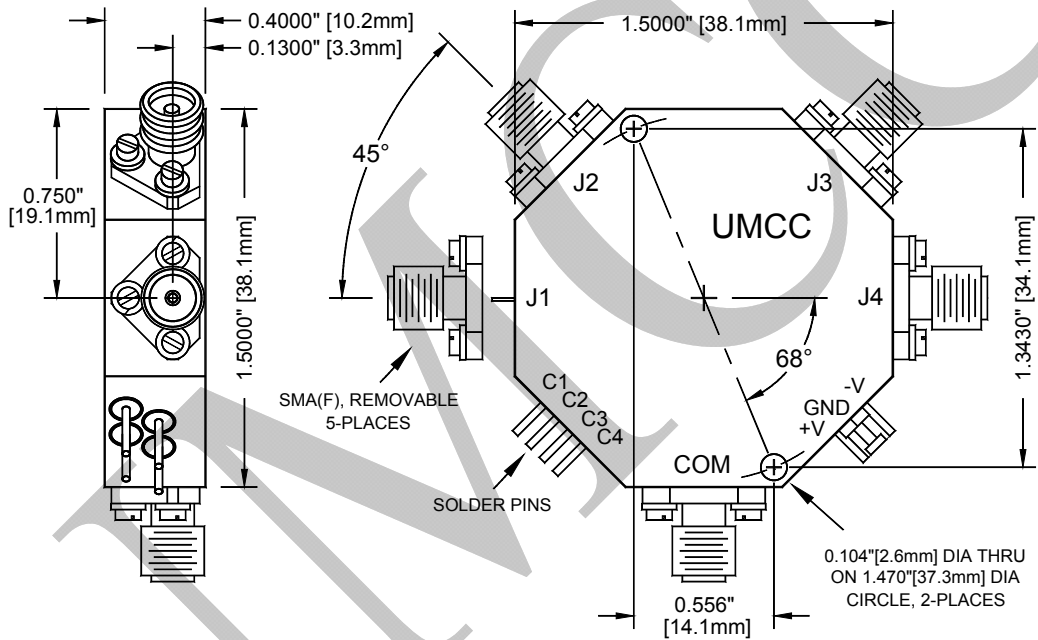
Control Function

- 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**

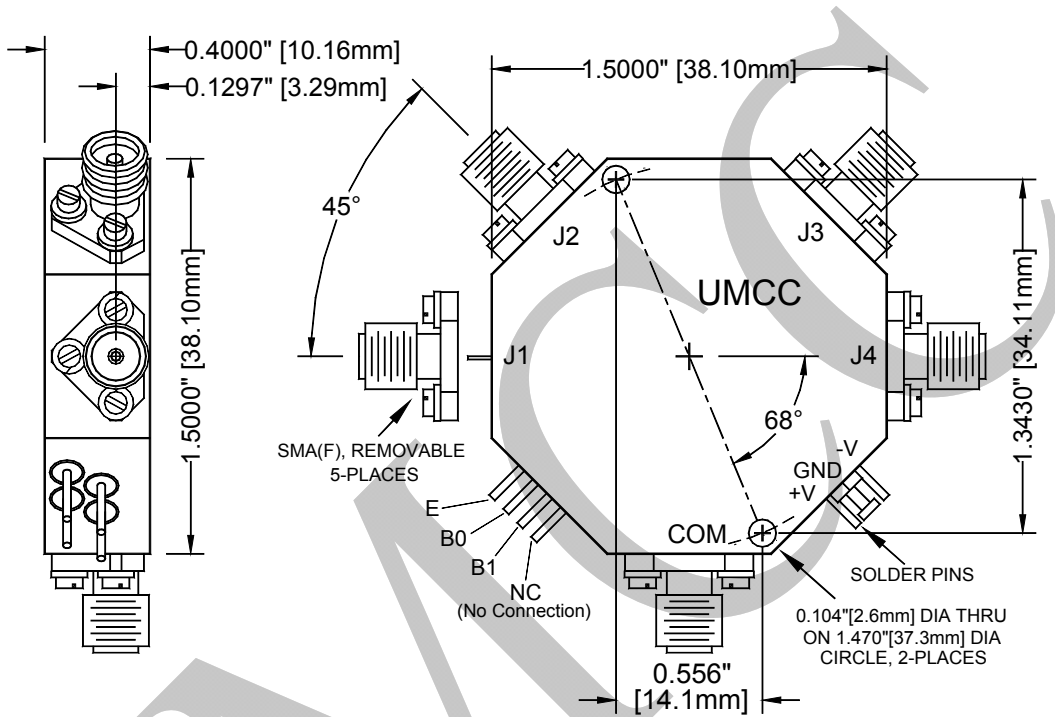


| Weight         | Tolerances        |
|----------------|-------------------|
| 1.2 oz [34.0g] | ±0.015" [±0.38mm] |



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**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 |