



Model: SW-A31H-2S

Description: SP2T, Absorptive, PIN-Switch, High Power
Operating Frequency: 30 - 4000 MHz
Insertion Loss:

Table with 2 columns: Frequency Range (30-1000 MHz, 1-4 GHz) and Insertion Loss (0.7 dB Max, 1.3 dB Max)

Isolation (Arm-to-Arm):

Table with 2 columns: Frequency Range (30-1000 MHz, 1-4 GHz) and Isolation (45 dB Min, 35 dB Min)

VSWR (RF Path "ON" or "OFF"): 1.4:1 Max
Rise/Fall time (10% to 90% RF, 90% to 10% RF): 750ns Max
On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF): 1µs Max
Phase Error (Deviation from Median): ±1° max
Operating Power: Cw / Avg +36dBm (4W ; Incident @ COM Port)
Peak: 50W @ 10µS PW Max
Control Input Characteristics: Std. TTL / Unit-Load / Floating-High
Control Logic: 2-Controls, Logic "0" = RF Path "ON"
Power Supplies: +5(±0.25)V @ 120mA 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]

RF Connectors

- B1 [J1 & J2 Ports with SMA(M)]
B2 [All SMA (M)]
B3 [COM Port with SMA(M)]

Control Connectors

- C1 [SMC(Jack), 50 Ω]
C2 [SMB(Jack), 50 Ω]

Control Impedance

- D1 [50 Ω, Internally Terminated]

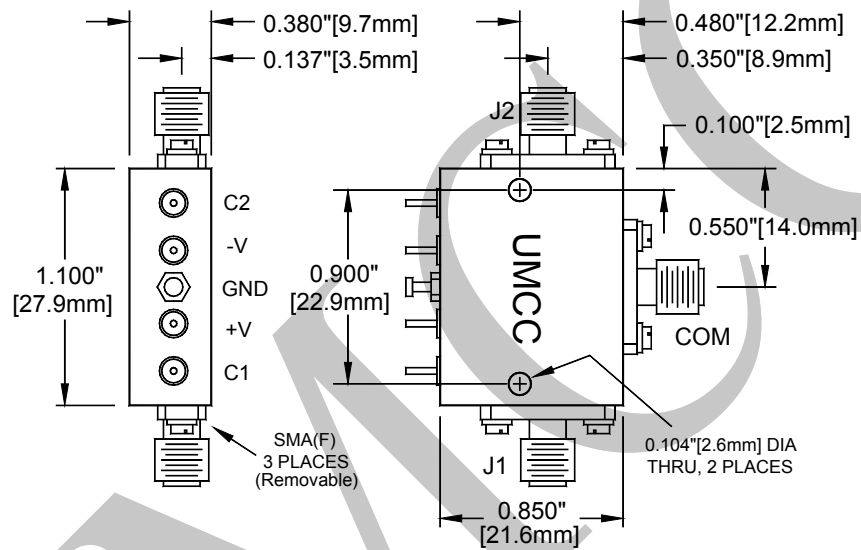
Control Function

- F1 [Inverse Logic, ("1" = Path "ON")]
F2 [Single Toggle Control ("1" for J1 path "ON")]



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Outline



Weight	Tolerances
0.7 oz [19.8 g]	±0.015" [±0.38mm]