



Model: SW-420H-2S

Description:..... SP2T, Reflective, PIN-Switch, High Power
 Operating Frequency:..... 200 – 4200 MHz
 Insertion Loss:..... 1.0 dB Max
 Isolation (Arm-to-Arm):

0.2 – 2 GHz	2 – 4.2 GHz
50 dB Min	40 dB Min

VSWR (“ON” paths):..... 1.4:1 Max
 Rise/Fall time (10% to 90% RF, 90% to 10% RF):... 250 ns Max
 On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF):..... 350 ns Max
 Operating Power:..... CW&AVG..... 8W (+39dBm) Max, Hot-Switching
 Peak: 50W (+47dBm) Max @ 5µS 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 @ 130mA Max
 -15(±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)

■ **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]

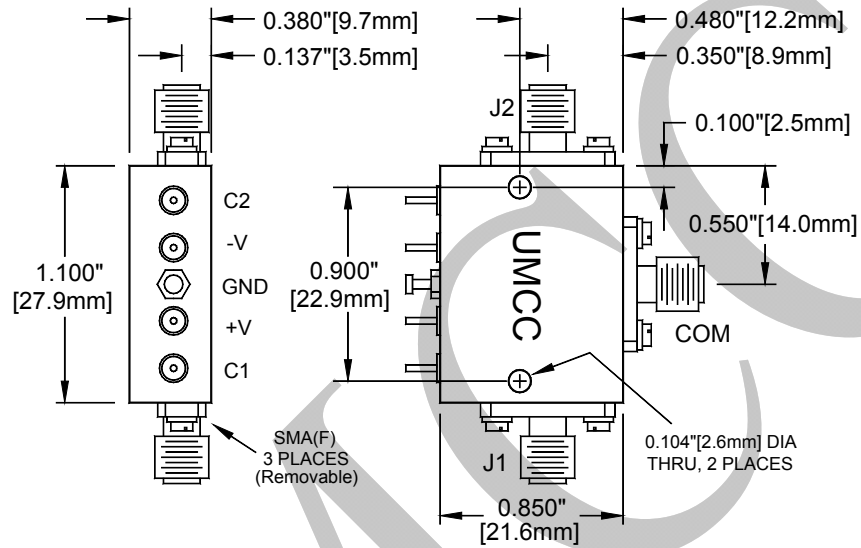
■ **Control Function**

- 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]