



**Model: SR-420H-4S**

Description:..... SP4T, Reflective, PIN-Switch, High Power  
Operating Frequency:..... 200 – 4200 MHz  
Insertion Loss:..... 1.0 dB Max  
Isolation:

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

VSWR (“ON” paths):..... 1.45:1 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:..... TTL /Unit-Load / Floating-High  
Control Logic:..... 4-Controls, Logic “0” = RF Path “ON”  
Power Supplies:..... +5(±0.25) V @ 190mA Max  
..... -15(±0.5) V @ 100mA 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 – J4 Ports with SMA(M) ]
- B2 [ All SMA (M) ]
- B3 [ COM Port with SMA(M) ]

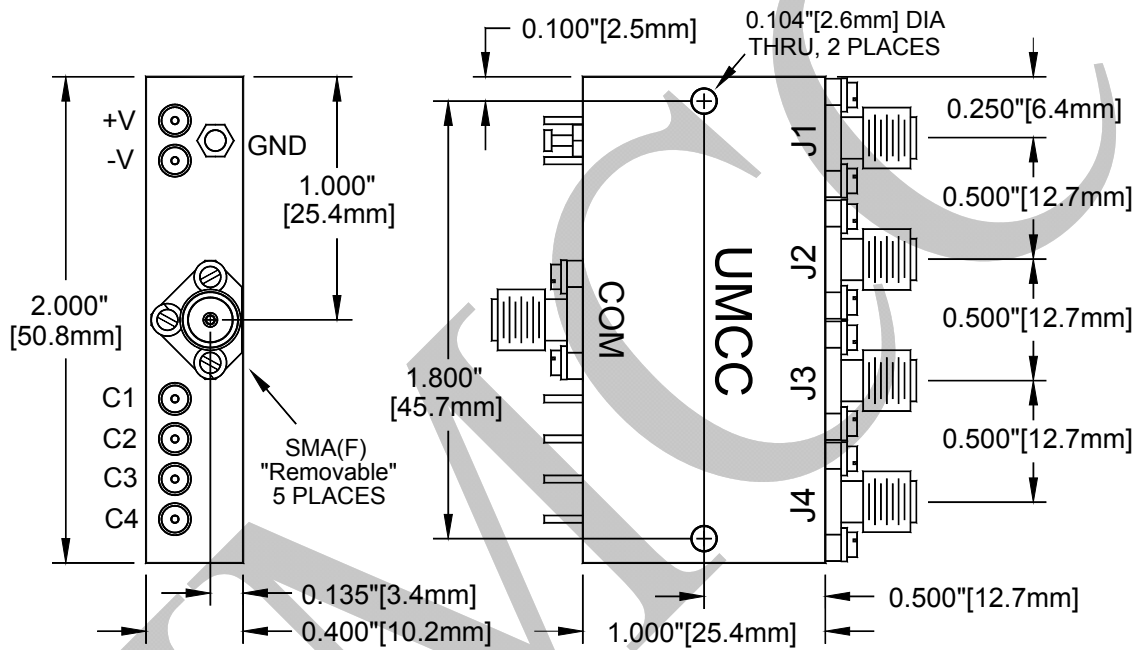
■ **Control Function**

- 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**

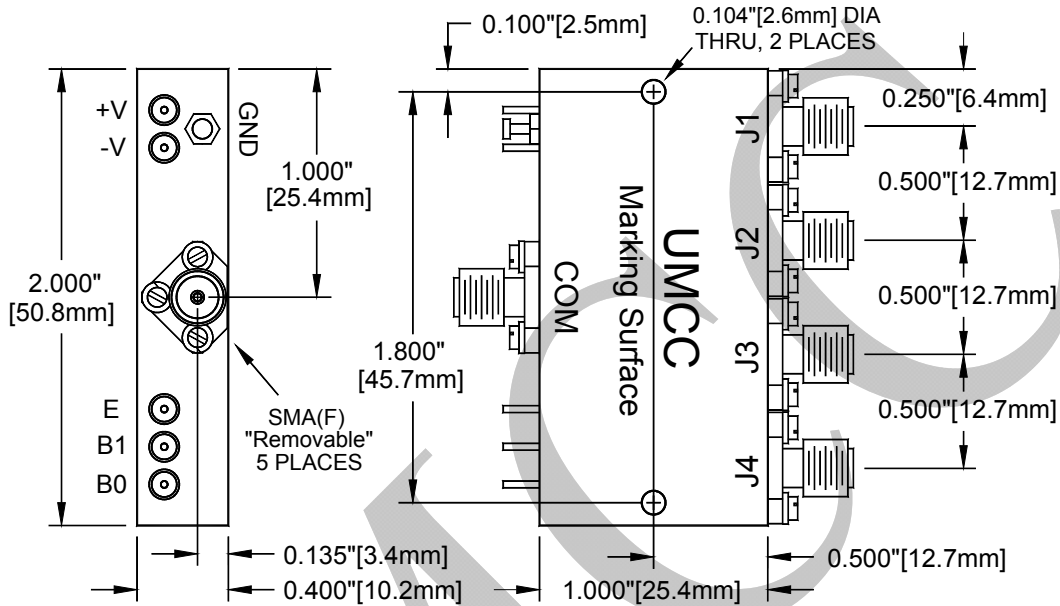


Weight	Tolerances
1.3 oz [36.9g]	±0.015" [±0.38mm]



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**Outline Drawing (SP4T with Option "F2")**



Weight	Tolerances
1.3 oz [36.9g]	±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