



Model: SR-S000-6S

Description: SP6T, Reflective, PIN-Switch

Operating Frequency:..... 2 – 18 GHz

Insertion Loss:

2 – 16 GHz	16 –18 GHz
2.9 dB Max	3.3 dB Max

Isolation (Arm-to-Arm):

2 – 16 GHz	16 –18 GHz
70 dB Min	65 dB Min

VSWR (“ON” paths):..... 2:1 Max
 Rise/Fall time (10% to 90% RF, 90% to 10% RF): ... 20 ns Max
 On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF): 60 ns Max
 Operating Power: CW&AVG +30dBm Max
 Peak:..... 10W @ 1µS PW & 10% Duty-Cycle Max
 Control Input Characteristics: TTL /Unit-Load / Floating-High
 Control Logic: 6-Controls, Logic “0” = RF Path “ON”
 Power Supplies: +5(±0.25)V @ 220 mA Max
 -12(±0.5)V @ 80 mA 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**

- A1 [+5(±0.25)V / -5(±0.25)V] *
- 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 – J6 Ports with SMA(M)]
- B2 [All SMA (M)]
- B3 [COM Port with SMA(M)]

■ **Control Function**

- F1 [Inverse Logic, (“1” = Path “ON”)]
- F2 [3-Bit Binary Controls + Enable] ; see below for “Outline Drawing” and “Function Table”

■ **Video Suppression Filter**

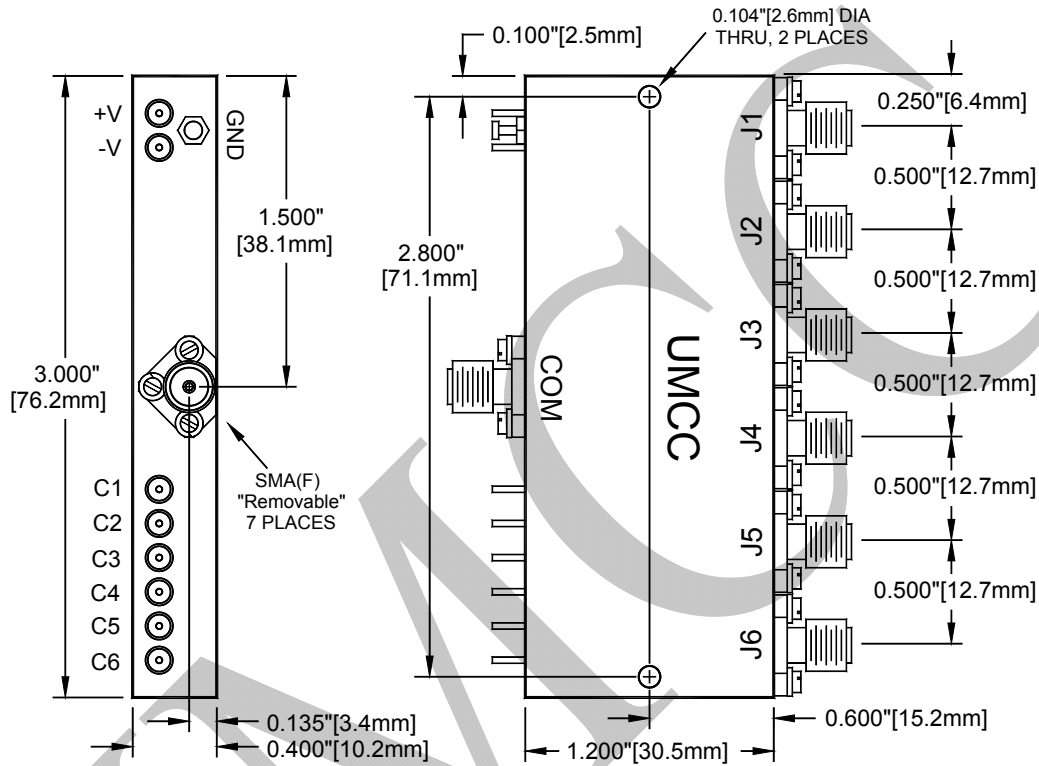
- G1 [VF @ COM Port <> 0.25 dB additional Loss]
- G2 [VF @ J1 – J6 Ports <> 0.25 dB additional Loss]
- G3 [VF @ All Ports <> 0.5 dB additional Loss]

* Recommended for Low Power Consumption ; Additional switching delay & limited power rating (consult Factory)



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Outline

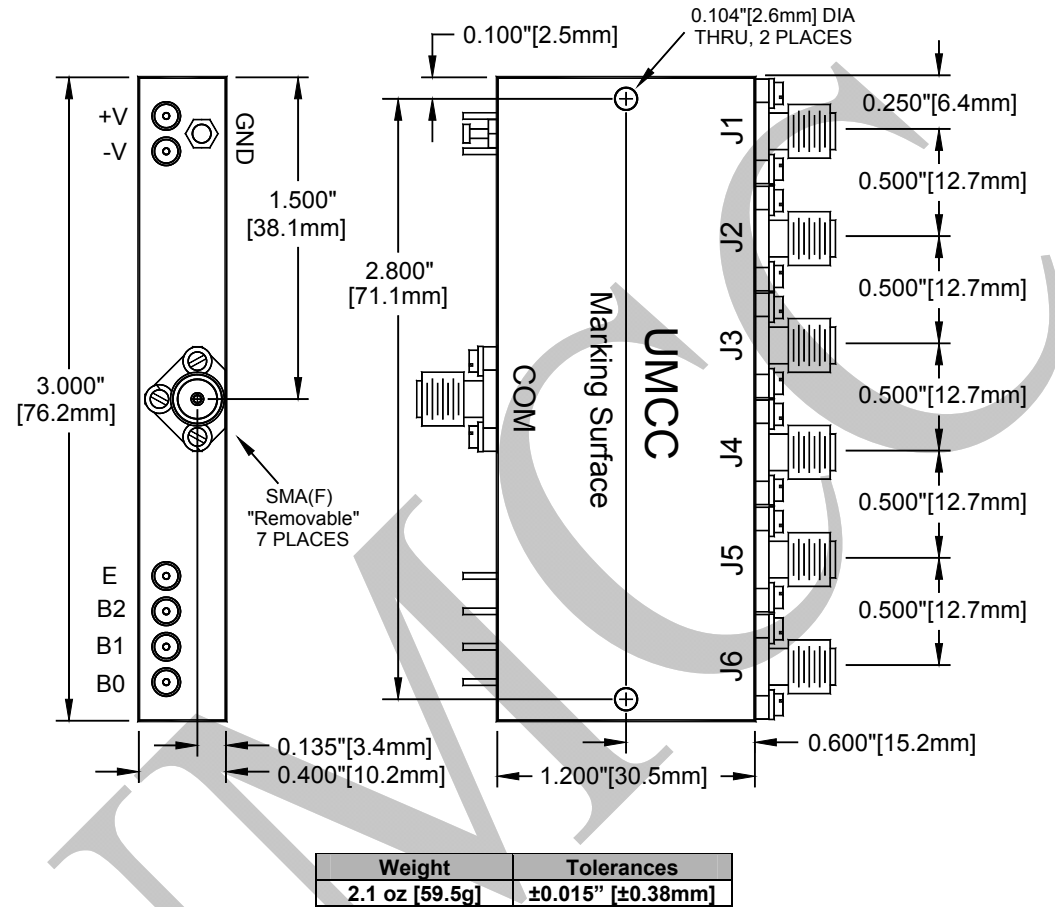


Weight	Tolerances
2.1 oz [59.5g]	±0.015" [±0.38mm]



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Outline Drawing (SP6T with Option "F2")



Function Table for Option "F2" (3-Bit Binary Control + Enable)

INPUTS				RF PATH					
E	B2	B1	B0	J1	J2	J3	J4	J5	J6
0	0	0	0	ON	OFF	OFF	OFF	OFF	OFF
0	0	0	1	OFF	ON	OFF	OFF	OFF	OFF
0	0	1	0	OFF	OFF	ON	OFF	OFF	OFF
0	0	1	1	OFF	OFF	OFF	ON	OFF	OFF
0	1	0	0	OFF	OFF	OFF	OFF	ON	OFF
0	1	0	1	OFF	OFF	OFF	OFF	OFF	ON
1	X	X	X	OFF	OFF	OFF	OFF	OFF	OFF