



**Model: SR-3000-7S**

Description:.....	SP7T, Reflective, PIN-Switch
Operating Frequency:.....	10 – 3000 MHz
Insertion Loss: .....	2.3 dB Max
Isolation (Arm-to-Arm): .....	55 dB Min
VSWR (“ON” paths):.....	1.5:1 Max
Rise/Fall time (10% to 90% RF, 90% to 10% RF): ...	200 ns Max
On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF):.....	300 ns Max
Operating Power:.....	CW / AVG .....
.....	* .....
.....	Peak: .....
Control Input Characteristics: .....	Std.TTL / Unit-Load / Floating-High
Control Logic:.....	7-Controls, Logic “0” = RF Path “ON”
Power Supplies:.....	+5(±0.25)V @ 90mA Max
.....	-12(±0.5)V @ 100mA 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 – J7 Ports with SMA(M) ]
- B2 [ All SMA (M) ]
- B3 [ COM Port with SMA(M) ]

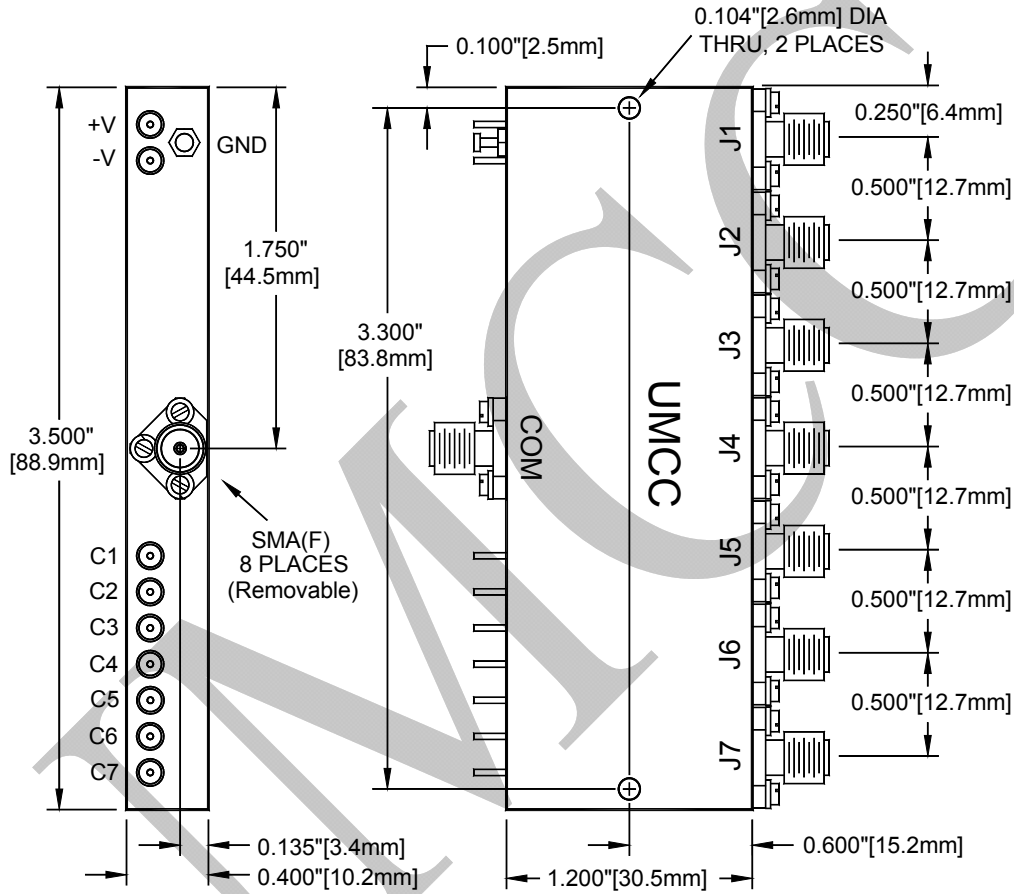
■ **Control Function**

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



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**Outline**

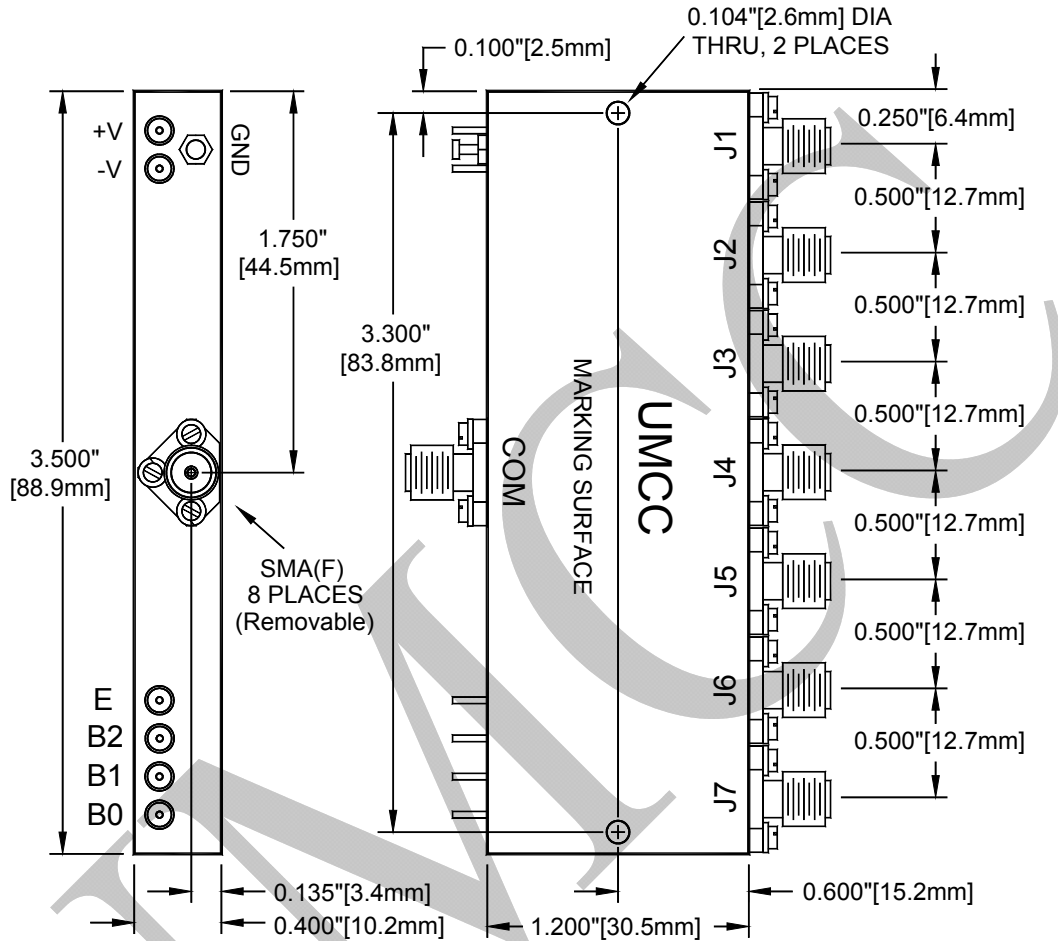


Weight	Tolerances
2.5 oz [70.9g]	±0.015" [±0.38mm]



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Outline Drawing (SP7T with Option "F2")



Weight	Tolerances
2.5 oz [70.9g]	±0.015" [±0.38mm]

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

INPUTS				RF PATH						
E	B2	B1	B0	J1	J2	J3	J4	J5	J6	J7
0	0	0	0	ON	OFF	OFF	OFF	OFF	OFF	OFF
0	0	0	1	OFF	ON	OFF	OFF	OFF	OFF	OFF
0	0	1	0	OFF	OFF	ON	OFF	OFF	OFF	OFF
0	0	1	1	OFF	OFF	OFF	ON	OFF	OFF	OFF
0	1	0	0	OFF	OFF	OFF	OFF	ON	OFF	OFF
0	1	0	1	OFF	OFF	OFF	OFF	OFF	ON	OFF
0	1	1	0	OFF	OFF	OFF	OFF	OFF	OFF	ON
1	X	X	X	OFF	OFF	OFF	OFF	OFF	OFF	OFF