



Model: SR-B300-7S

Description:	SP7T, Reflective, PIN-Switch	
Operating Frequency:.....	20 – 6000 MHz	
Insertion Loss:.....	3.0 dB Max	
Isolation:.....	70 dB Min	
VSWR (“ON” paths):.....	1.6:1 Max (1.7:1 Over 20-30MHz)	
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	+27dBm Max *
.....	*	{+23dbm Max below 100MHz}
.....	Peak:.....	5W @ 5µS PW Max
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 @ 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)

■ **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**

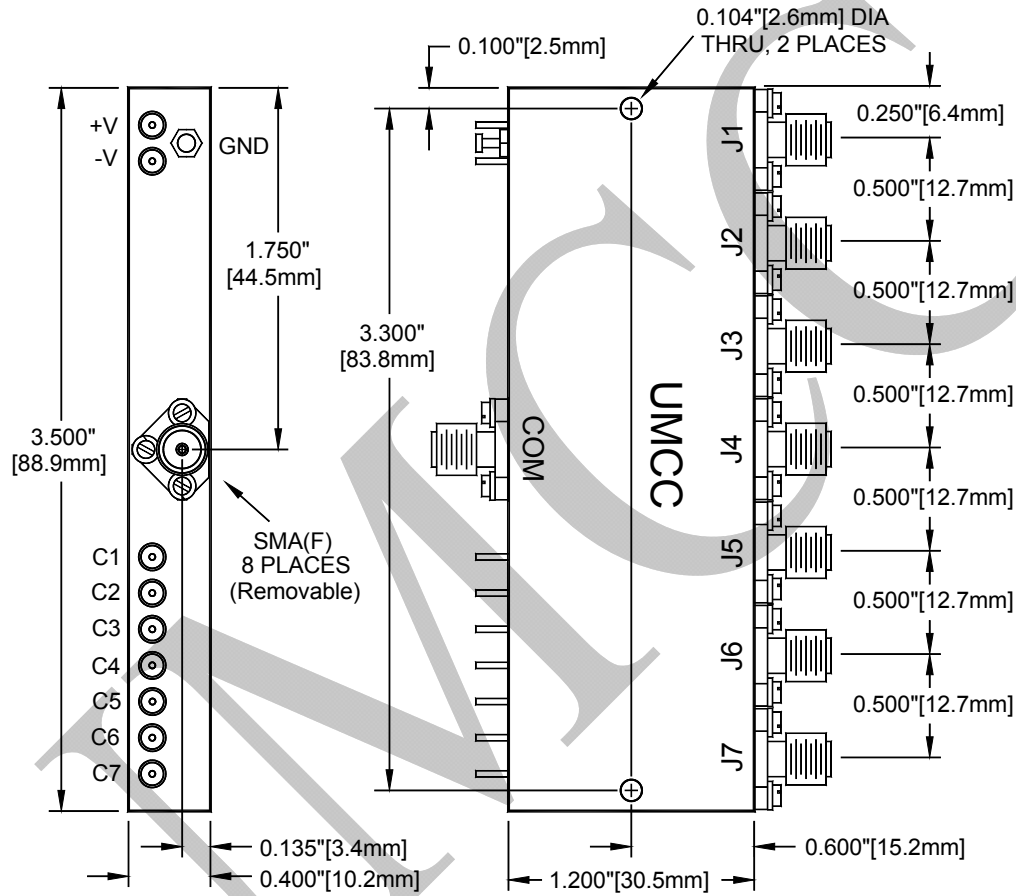
- F1 [Inverse Logic, (“1” = Path “ON”)]
- F2 [3-Bit Binary Controls + Enable] ; see below for “Outline Drawing” and “Function Table”

* Recommended for Low Power Consumption <> Additional Switching Delay (ON/OFF time)



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Outline

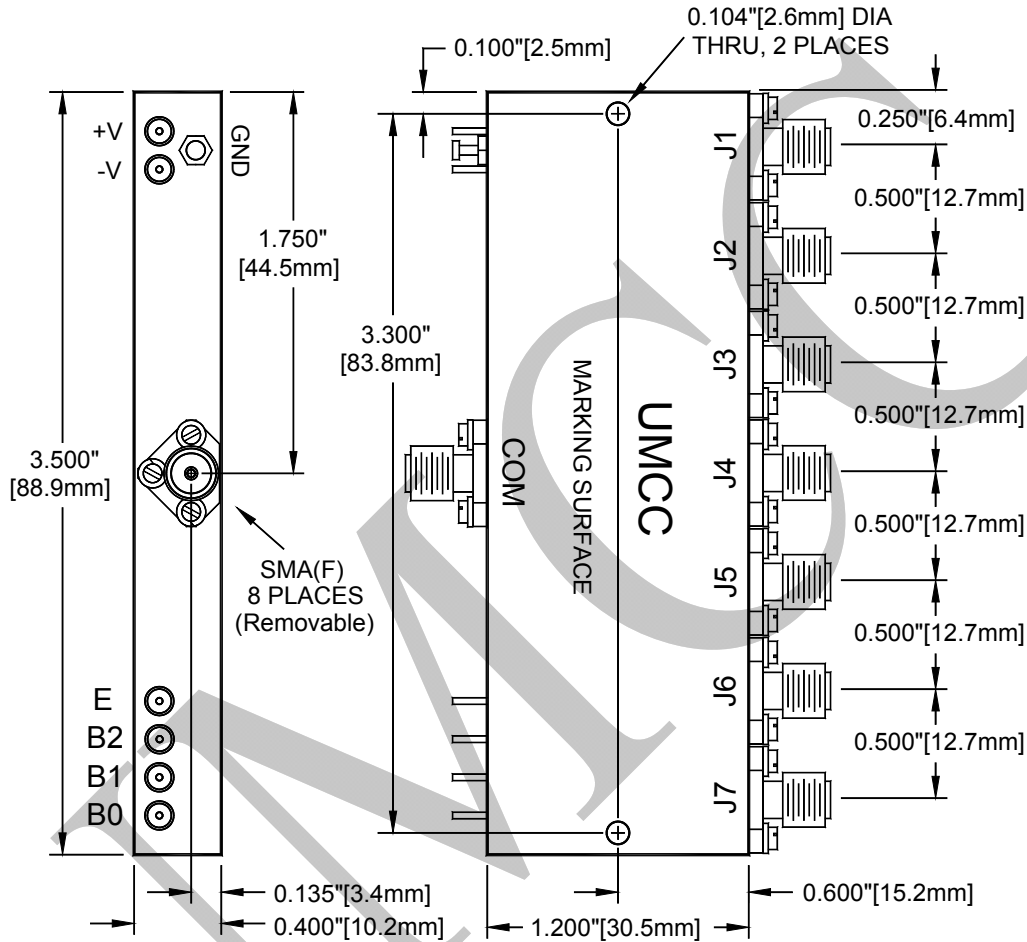


Weight	Tolerances
2.5 oz [70.9g]	±0.015" [±0.38mm]



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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