



**Model: SR-V010-7S**

Description:..... SP7T, Absorptive, PIN-Switch  
Operating Frequency:..... 0.1 – 18 GHz  
Insertion Loss: ..... 4.0 dB Max  
Isolation:

0.1 – 14 GHz	14 –18 GHz
80 dB Min	75 dB Min

VSWR (RF Path “ON” or “OFF”): ..... 1.9:1 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):..... 300 ns Max  
Operating Power:..... CW & AVG..... +27dBm Max \*  
..... \* ..... (+24dBm Max into “JX” Port @ Off-State)  
..... Peak: ..... 5W @ 1µS PW & 10% Duty-Cycle 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 @ 200mA Max  
..... -12(±0.5)V @ 80mA 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**

- 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) ]

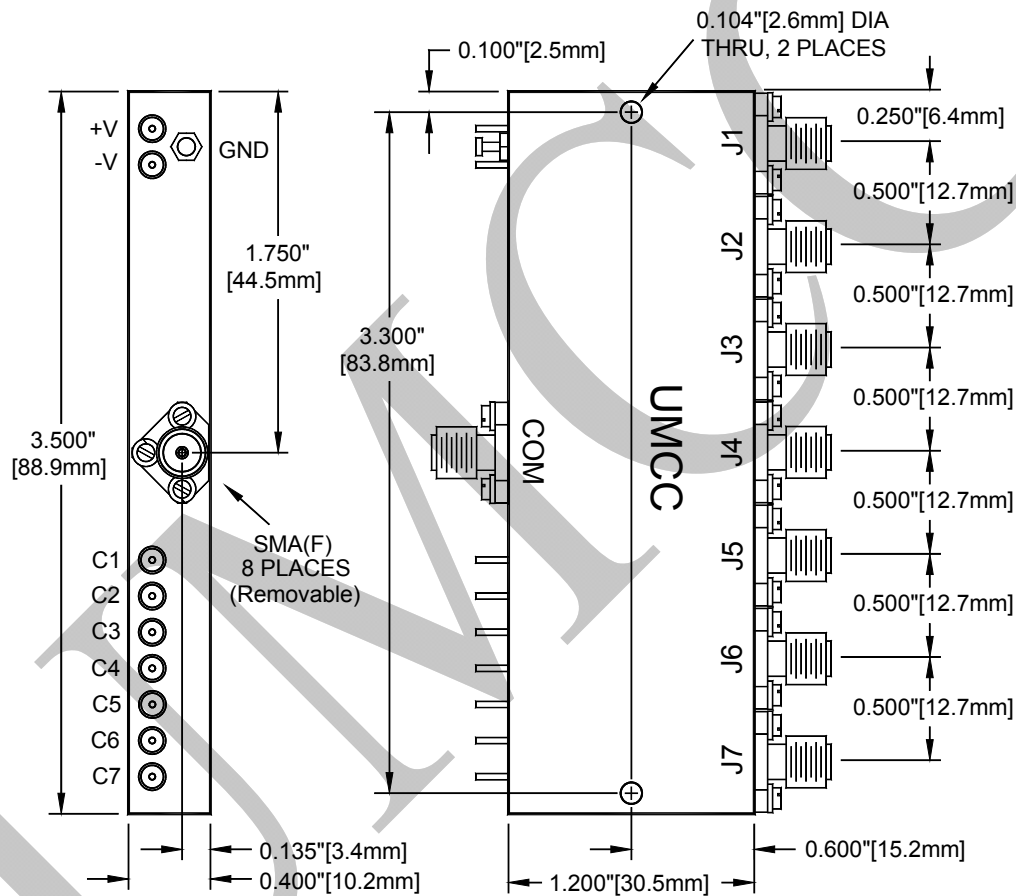
■ **Control Function**

- 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**

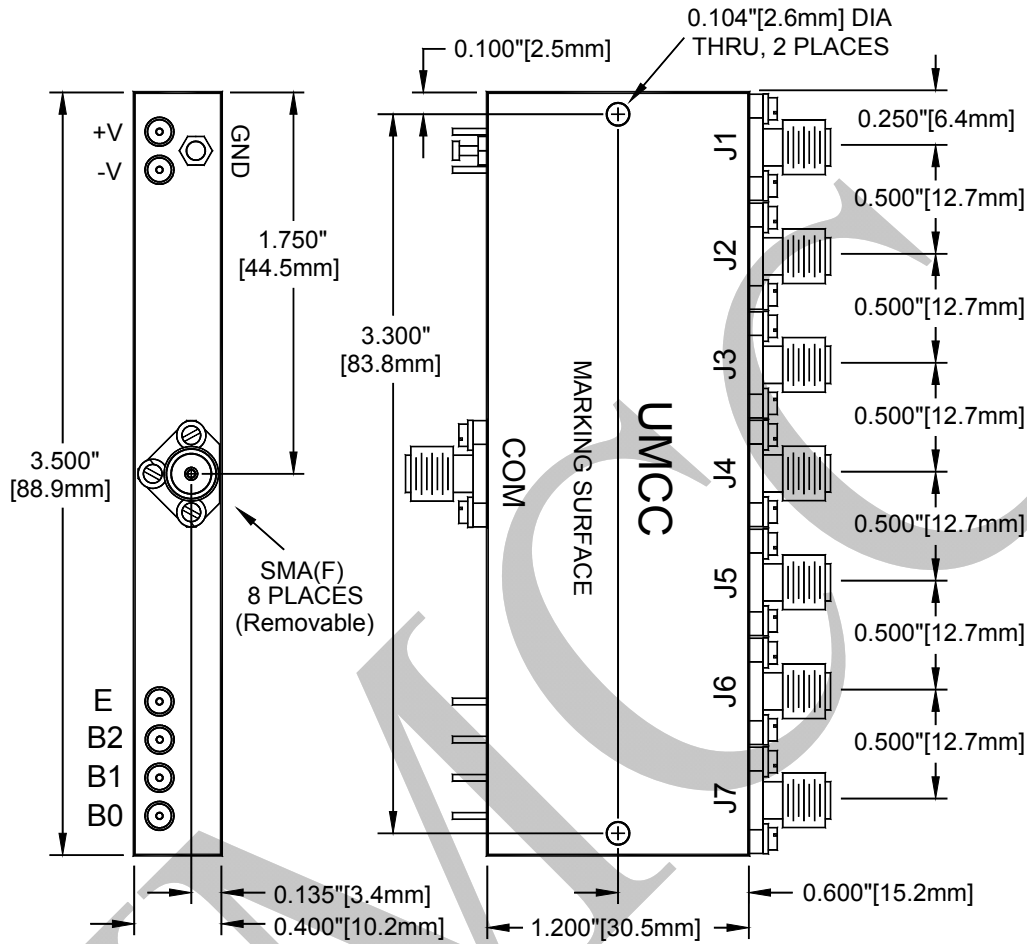


Weight	Tolerances
2.5 oz [70.9g]	±0.015" [±0.38mm]



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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