



**Model: SR-L410-7S**

Description: ..... SP7T, Absorptive, PIN-Switch

Operating Frequency: ..... 2 – 14 GHz

Insertion Loss: ..... 3.2 dB Max

Isolation:

| 2 – 12.4 GHz | 12.4 - 14 GHz |
|--------------|---------------|
| 60 dB Min    | 55 dB Min     |

VSWR (“ON” paths & “OFF” ports): ..... 1.85:1 Max

Rise/Fall time (10% to 90% RF, 90% to 10% RF): ... 25 ns Max

On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF): ..... 70 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 @ 240mA Max

..... -12(±0.5)V @ 90mA 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”

■ **Video Suppression Filter**

G1 [ VF @ COM Port <> 0.25 dB additional Loss ]

G2 [ VF @ J1 – J7 Ports <> 0.25 dB additional Loss ]

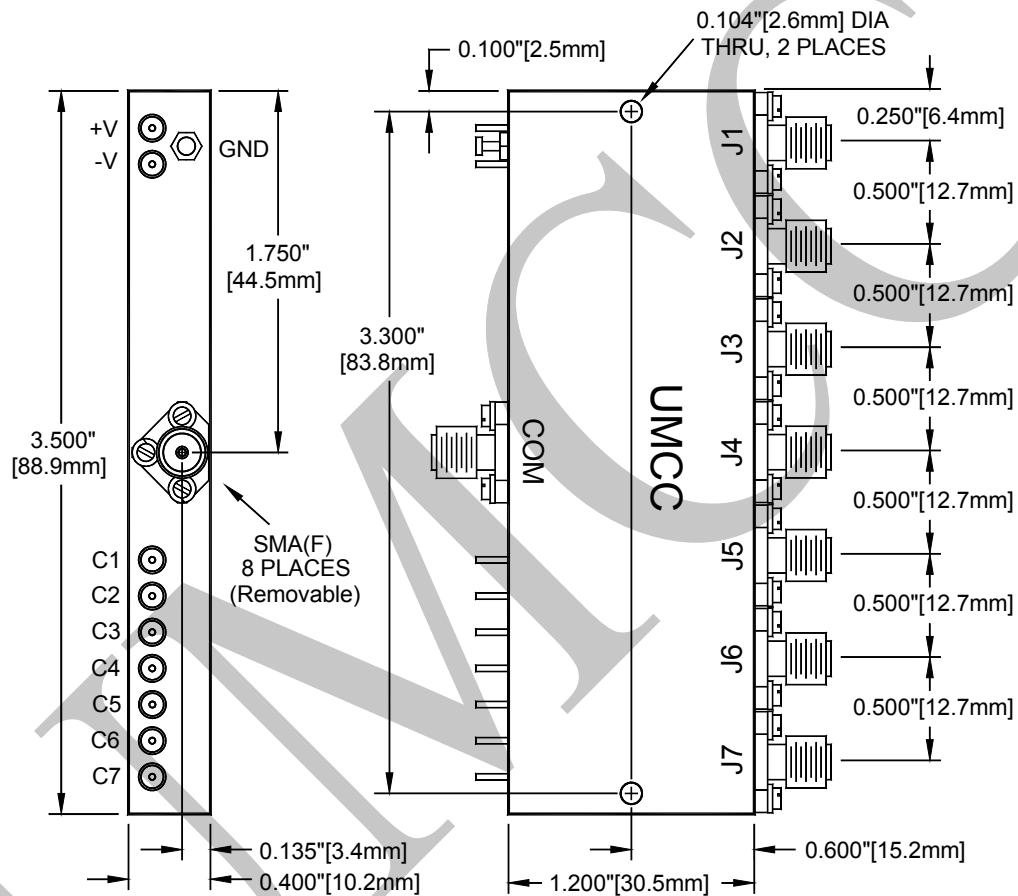
G3 [ VF @ All Ports <> 0.5 dB additional Loss ]

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



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**Outline**

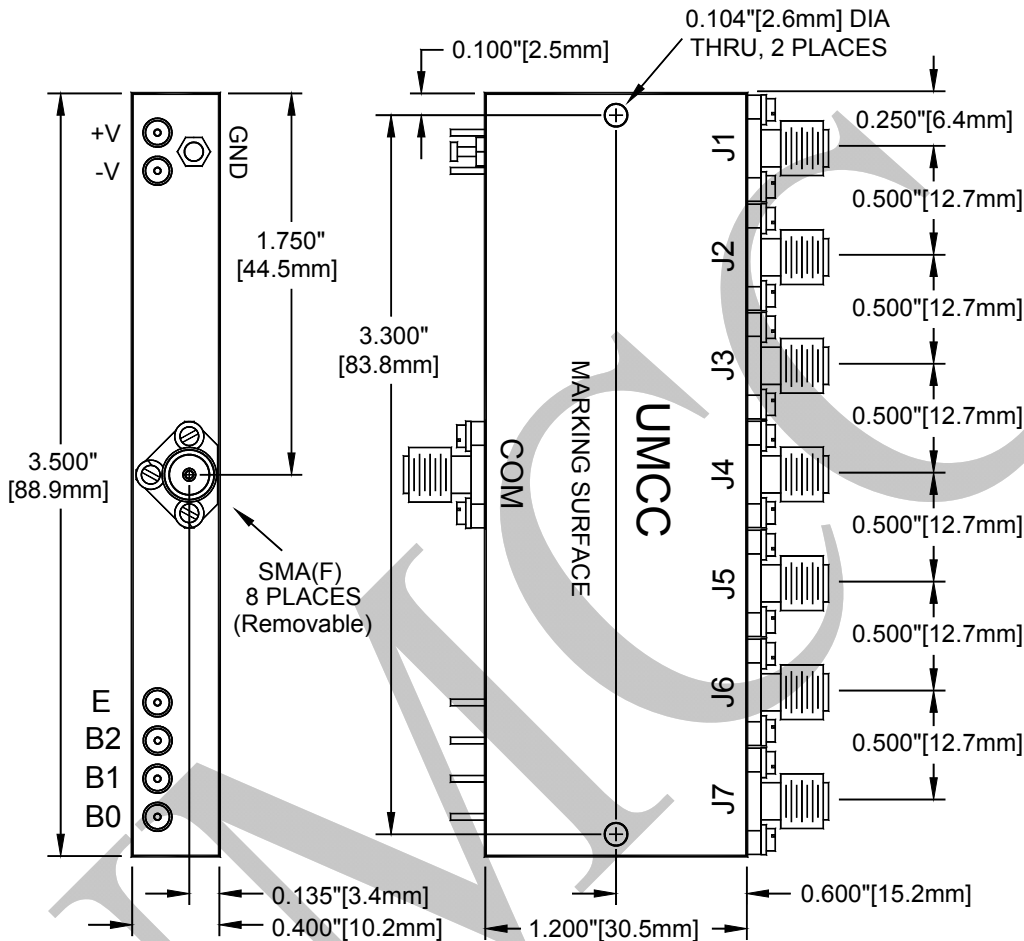


| Weight         | Tolerances        |
|----------------|-------------------|
| 2.5 oz [70.9g] | ±0.015" [±0.38mm] |



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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 |