



Model: SR-P00W-7S

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

Operating Frequency:..... 2 – 20 GHz

Insertion Loss:

2 – 16 GHz	16 –20 GHz
2.8 dB Max	3.7 dB Max

Isolation (Arm-to-Arm):

2 – 16 GHz	16 –20 GHz
70 dB Min	65 dB Min

VSWR (“ON” paths):..... 1.9:1 Max

Rise/Fall time (10% to 90% RF, 90% to 10% RF): ... 50 ns Max

On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF): 90 ns Max

Operating Power:..... CW&AVG..... +30dBm Max

..... Peak: 10W @ 1 μ S PW Max

Control Input Characteristics: Std. TTL /Unit-Load / Floating-High

Control Logic:..... 7-Controls, Logic “0” = RF Path “ON”

Power Supplies:..... +5($\pm$ 0.25)V @ 220mA Max

..... -12($\pm$ 0.5)V @ 90mA 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($\pm$ 0.25)V / -5($\pm$ 0.25)V] *

A2 [+5($\pm$ 0.25)V / -15($\pm$ 0.5)V]

A3 [+12($\pm$ 0.5)V / -12($\pm$ 0.5)V]

A4 [+15($\pm$ 0.5)V / -15($\pm$ 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]

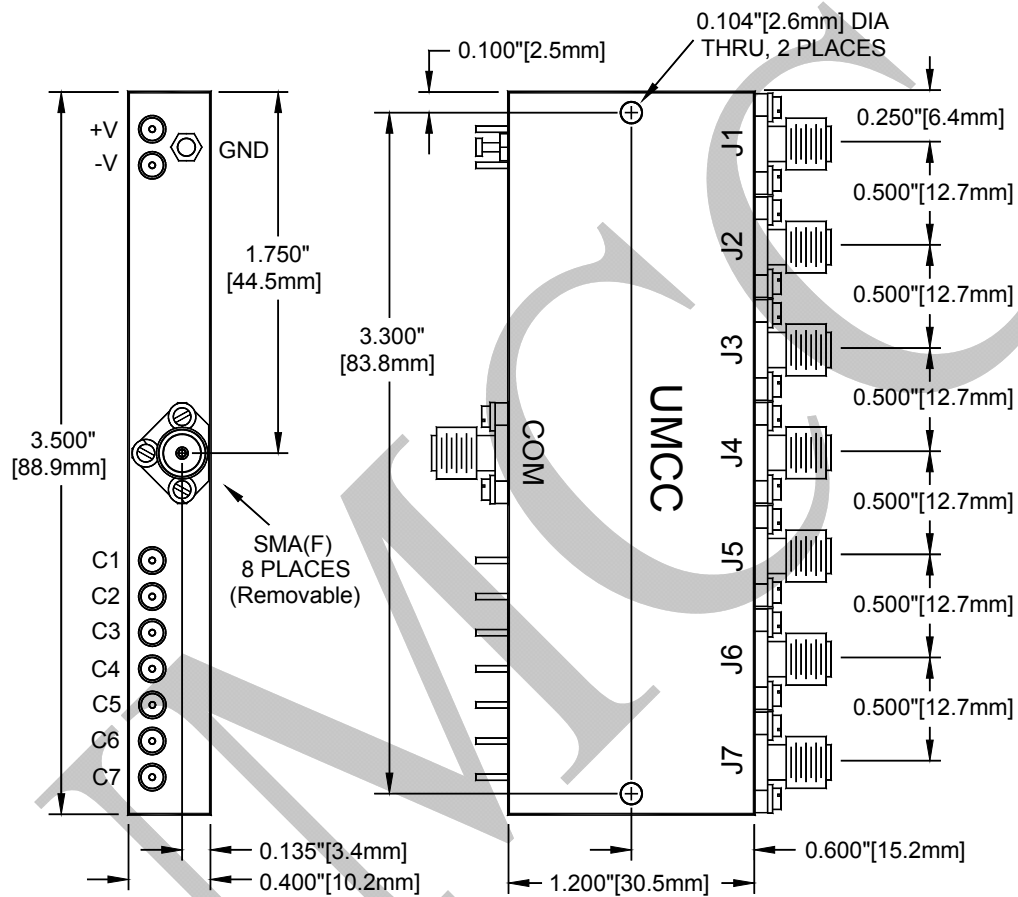
G3 [VF @ All Ports <> 0.5 dB additional Loss]

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



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Outline

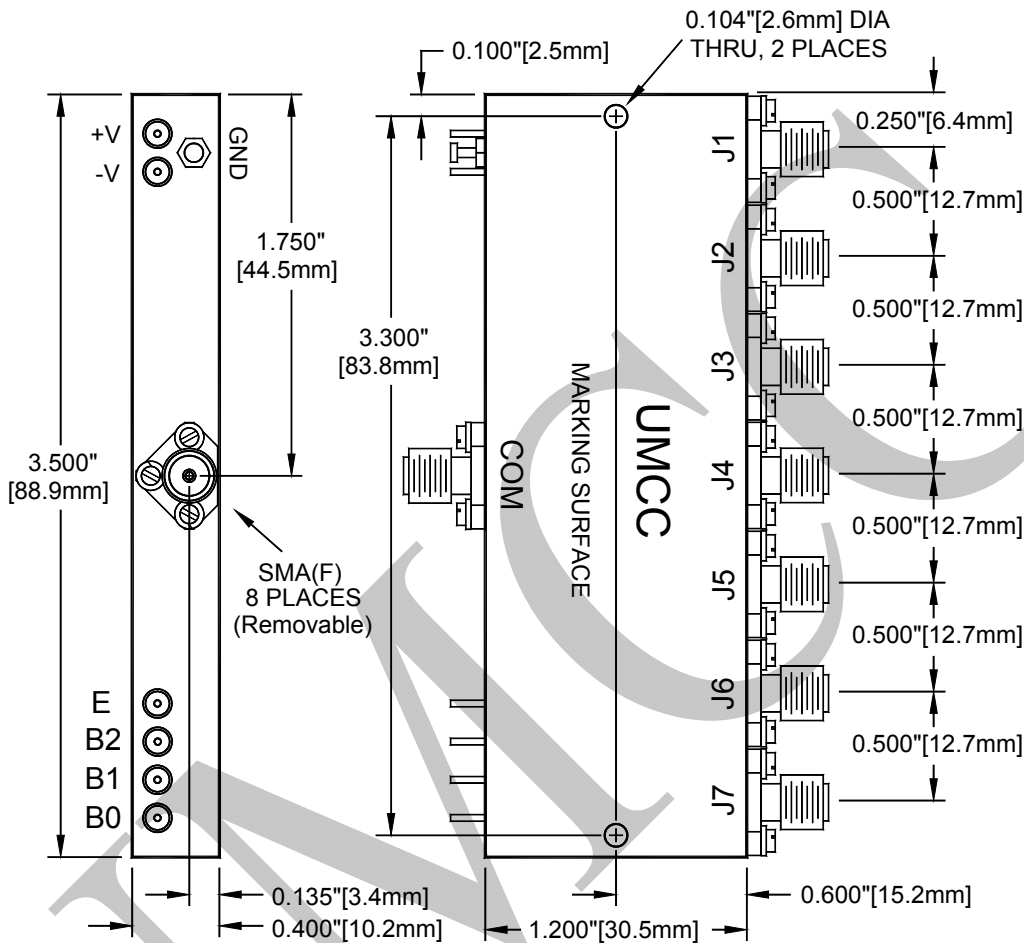


Weight	Tolerances
2.5 oz [70.9g]	±0.015" [±0.38mm]



Model: SR-P00W-7S

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