



Model: SR-P00W-8S

Description:..... SP8T, Reflective, PIN-Switch

Operating Frequency:..... 2 – 20 GHz

Insertion Loss:

2 – 16 GHz	16 –20 GHz
3.0 dB Max	4.0 dB Max

Isolation (Arm-to-Arm):

2 – 16 GHz	16 –20 GHz
70 dB Min	60 dB Min

VSWR (“ON” paths):..... 2:1 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 @ 1µS PW Max  
 Control Input Characteristics: ..... Std. TTL / Unit-Load / Floating-High  
 Control Logic:..... 8-Controls, Logic “0” = RF Path “ON”  
 Power Supplies:..... +5(±0.25)V @ 240mA Max  
 ..... -12(±0.5)V @ 110mA 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 – J8 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

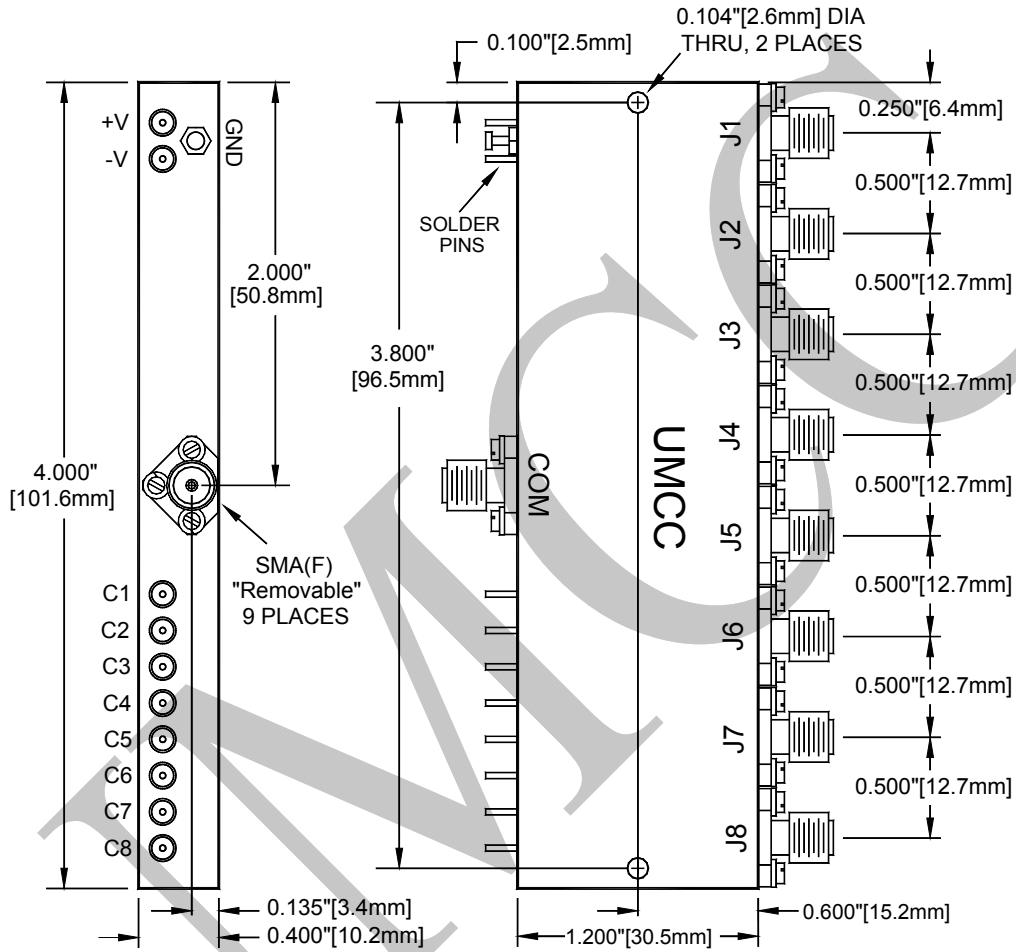
- G1 [ VF @ COM Port <> 0.25 dB additional Loss ]
- G2 [ VF @ J1 – J8 Ports <> 0.25 dB additional Loss ]
- G3 [ VF @ All Ports <> 0.5 dB additional Loss ]

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



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**Outline**

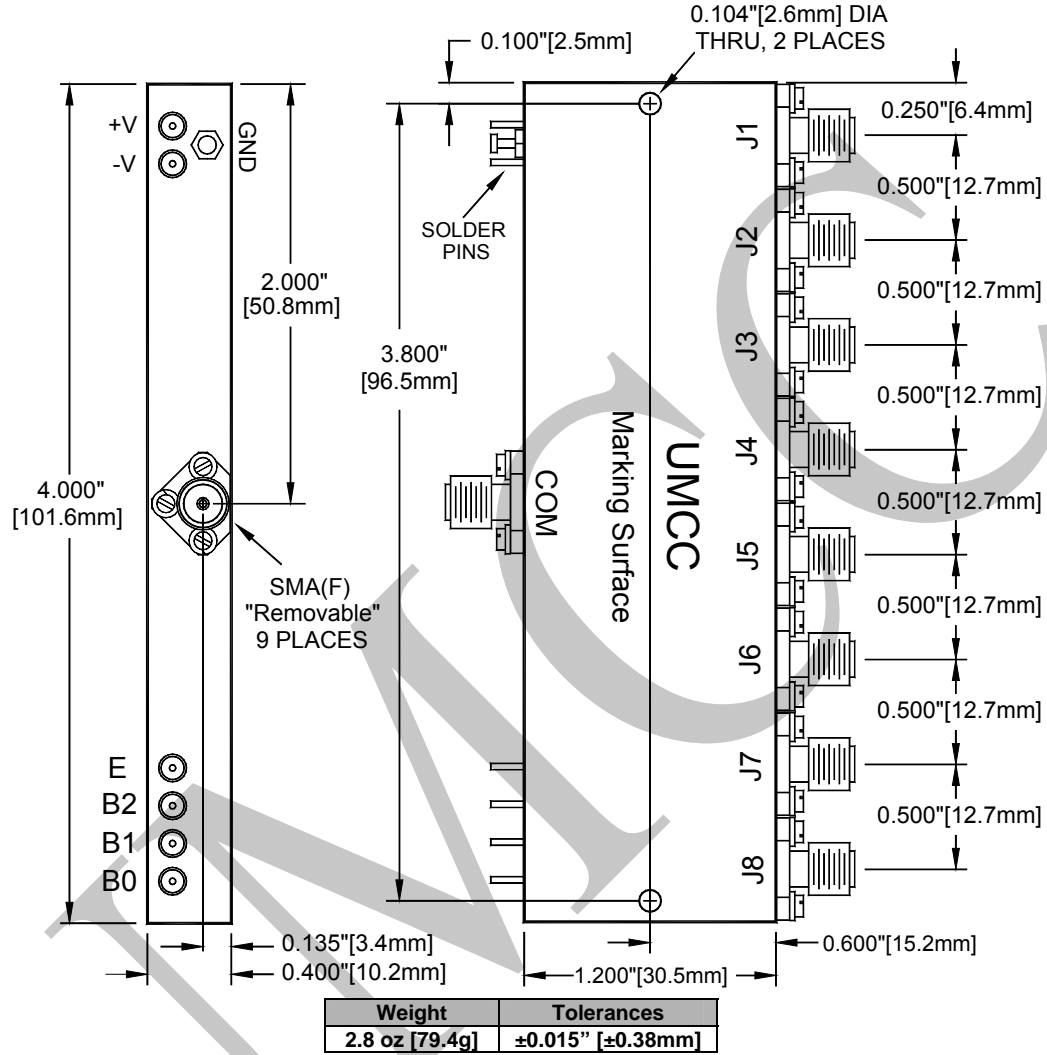


Weight	Tolerances
2.8 oz [79.4g]	±0.015" [±0.38mm]



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



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

INPUTS				RF PATH							
E	B2	B1	B0	J1	J2	J3	J4	J5	J6	J7	J8
0	0	0	0	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
0	0	0	1	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
0	0	1	0	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
0	0	1	1	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF
0	1	0	0	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF
0	1	0	1	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF
0	1	1	0	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
0	1	1	1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON
1	X	X	X	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF