Universal Microwave Components Corp.
5702-D General Washington Drive Alexandria, VA 22312 <> Web: www.umcc111.com
E-mail: sales@umcc111.com <> Tel: (703) 642-6332 <> Fax: (703) 642-2568

Model: SR-U270-6S

Description: ..... SP6T, Absorptive, PIN-Switch
Operating Frequency: ..... 0.5 – 18 GHz
Insertion Loss: ..... 3.7 dB Max
Isolation:

0.5 – 9 GHz	9 –18 GHz
65 dB Min	55 dB Min

VSWR (RF Path "ON" or "OFF"): ..... 1.9:1 Max
Rise/Fall time (10% to 90% RF, 90% to 10% RF): ..... 35 ns Max
On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF): ..... 75 ns Max
Operating Power: ..... CW&AVG ..... +24dBm Max
..... Peak: ..... 5W @ 1μS PW Max
Control Input Characteristics: ..... TTL /Unit-Load / Floating-High
Control Logic: ..... 6-Controls, Logic "0" = RF Path "ON"
Power Supplies: ..... +5(±0.25)V @ 170mA 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***
- **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 – J6 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 – J6 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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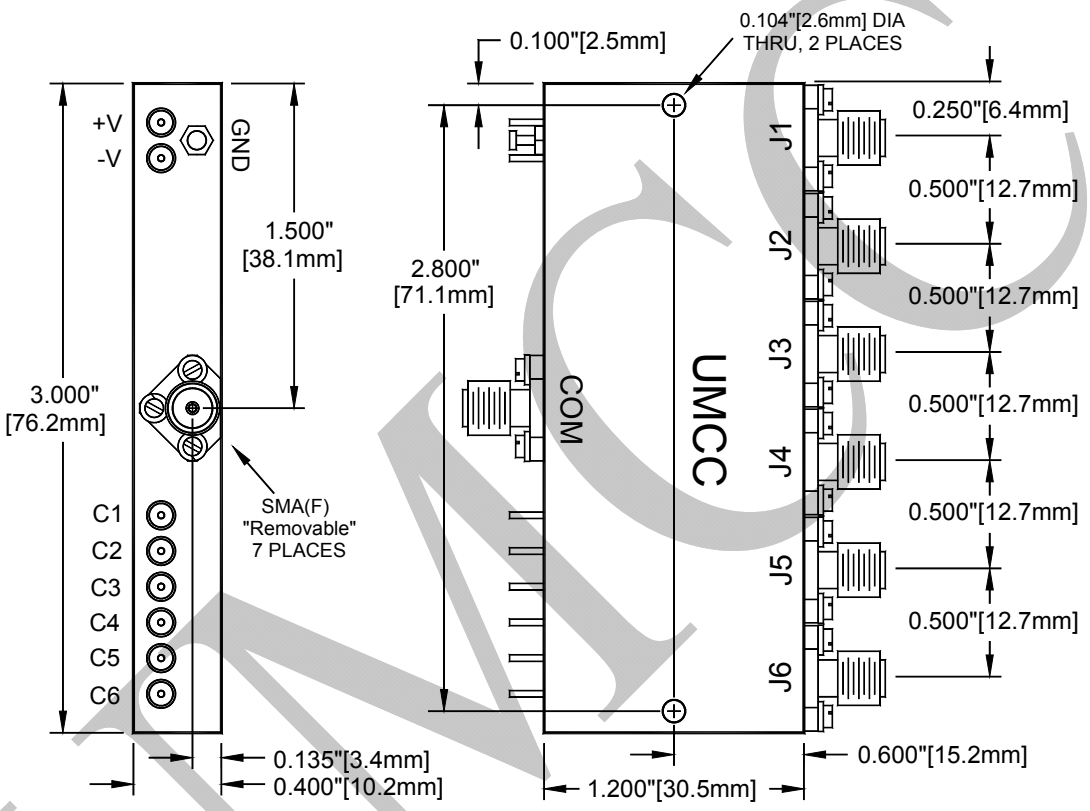
Outline



Weight	Tolerances
2.1 oz [59.5g]	**±0.015" [±0.38mm]**

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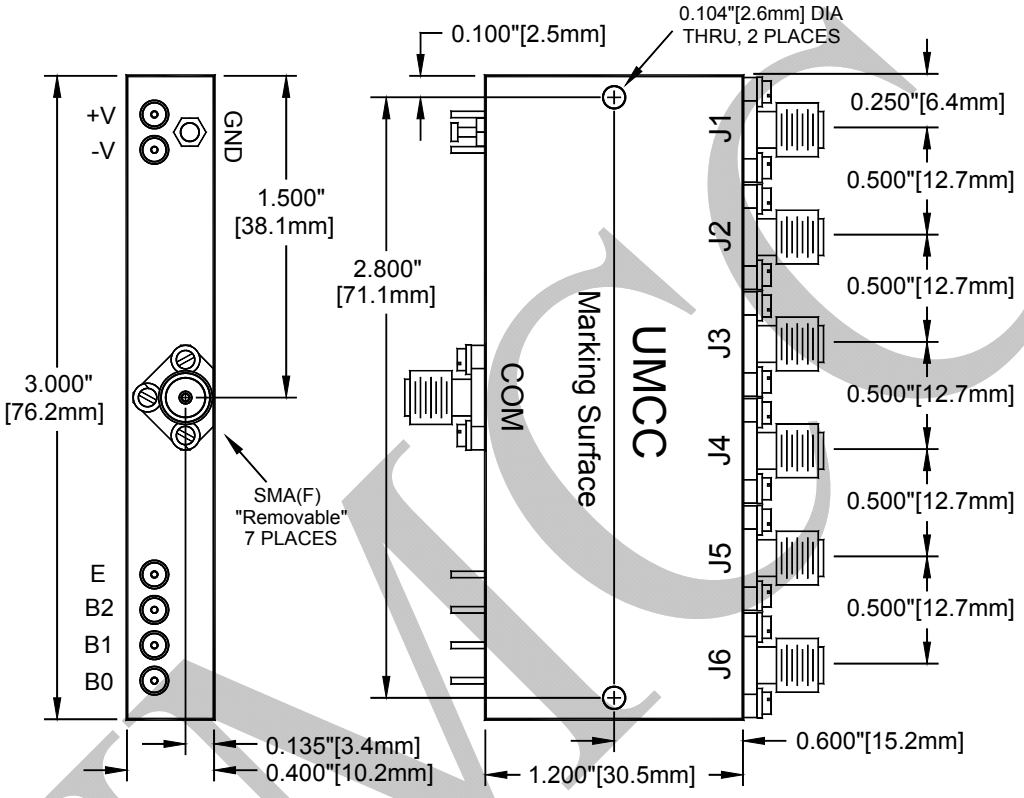
Outline Drawing (SP6T with Option "F2")



Weight	Tolerances
2.1 oz [59.5g]	±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
0	0	0	0	**ON**	OFF	OFF	OFF	OFF	OFF
0	0	0	1	OFF	**ON**	OFF	OFF	OFF	OFF
0	0	1	0	OFF	OFF	**ON**	OFF	OFF	OFF
0	0	1	1	OFF	OFF	OFF	**ON**	OFF	OFF
0	1	0	0	OFF	OFF	OFF	OFF	**ON**	OFF
0	1	0	1	OFF	OFF	OFF	OFF	OFF	**ON**
1	X	X	X	OFF	OFF	OFF	OFF	OFF	OFF

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