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: SW-L410-5S

Description:..... SP5T, Absorptive, PIN-Switch
Operating Frequency:..... 2 – 14 GHz
Insertion Loss: ..... 2.5 dB Max
Isolation (Arm-to-Arm):

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

VSWR (RF Path "ON" or "OFF"): ..... 1.7:1 Max
Rise/Fall time (10% to 90% RF, 90% to 10% RF): ... 10 ns Max
On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF):..... 40 ns Max
Phase Balance (Deviation from Median):..... ±5° 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:..... 5-Controls, Logic "0" = RF Path "ON"
Power Supplies:..... +5(±0.25)V @ 160mA Max
..... -12(±0.5)V @ 80mA 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 – J5 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 – J5 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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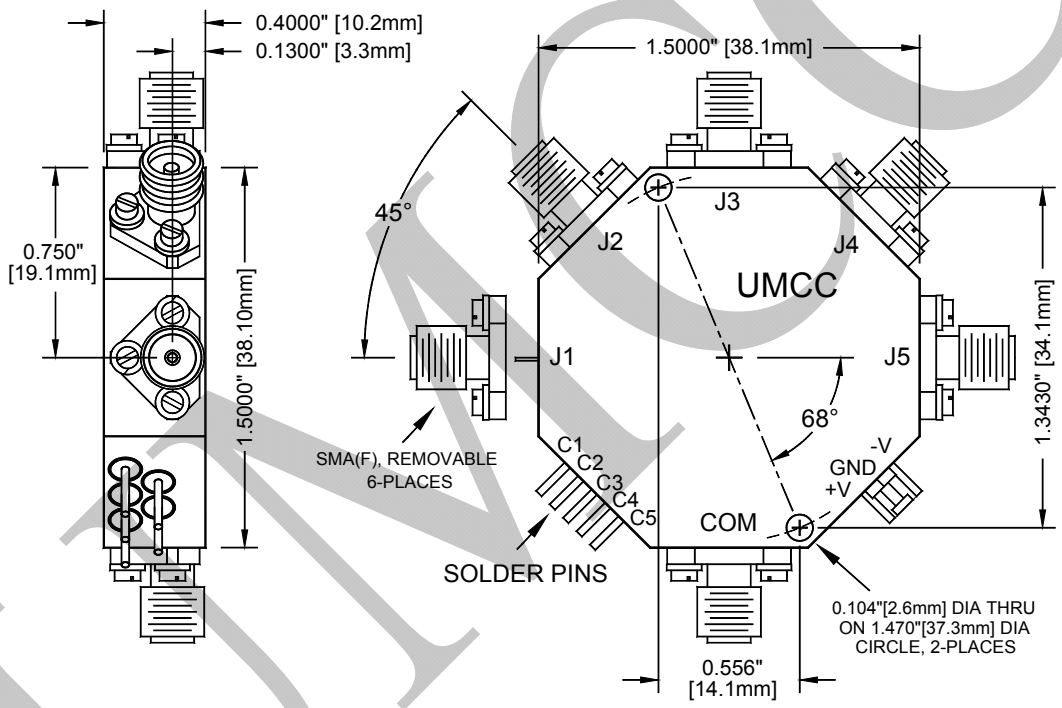
Outline



Weight	Tolerances
1.3 oz [36.9g]	±0.015" [±0.38mm]

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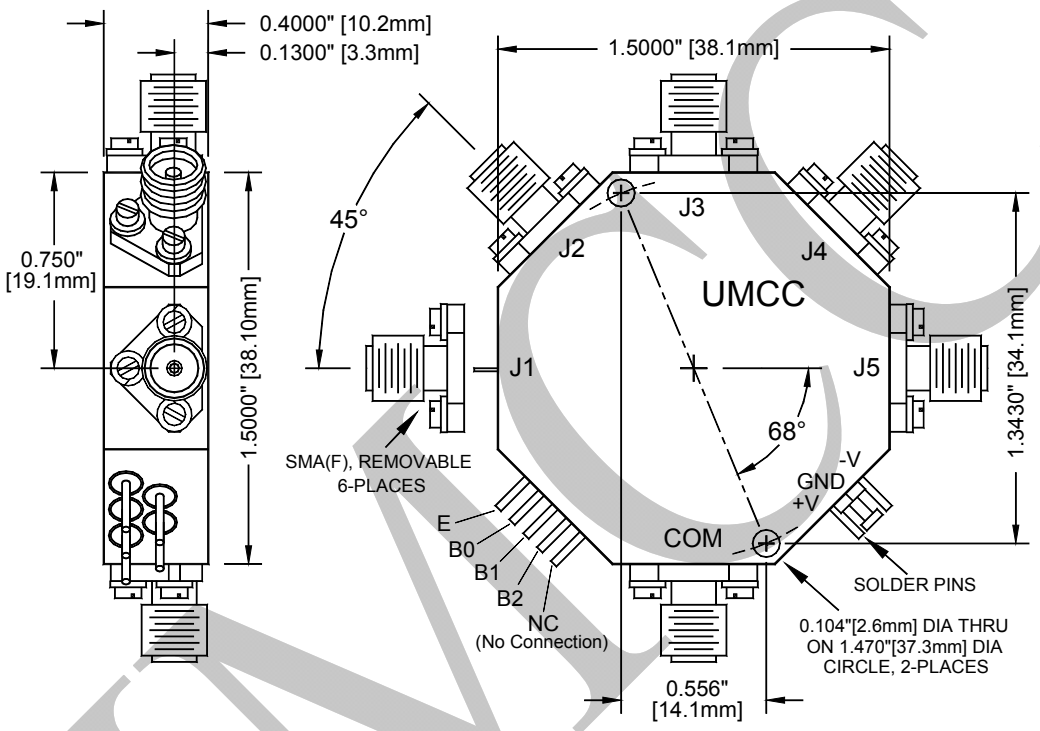
Model: SW-L410-5S

Outline Drawing (SP5T Radial with Option "F2")



Weight	Tolerances
1.3 oz [36.9g]	**±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**
1	**0**	**0**	**0**	**ON**	OFF	OFF	OFF	OFF
1	**0**	**0**	**1**	OFF	**ON**	OFF	OFF	OFF
1	**0**	**1**	**0**	OFF	OFF	**ON**	OFF	OFF
1	**0**	**1**	**1**	OFF	OFF	OFF	**ON**	OFF
1	**1**	**0**	**0**	OFF	OFF	OFF	OFF	**ON**
0	**X**	**X**	**X**	OFF	OFF	OFF	OFF	OFF

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