



Model: SR-L410-16S

Description: SP16T, Absorptive, PIN-Switch
Operating Frequency:..... 2 – 14 GHz
Insertion Loss:..... 4.7 dB Max
Isolation (Arm-to-Arm):

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

VSWR (“ON” paths & “OFF” ports):..... 1.9:1 Max
Rise/Fall time (10% to 90% RF, 90% to 10% RF): ... 30 ns Max
On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF): 80 ns Max
Operating Power: CW & AVG +27dBm Max *
..... * (+24dBm Max into “JX” Port @ Off-State)
..... Peak:..... 5W @ 1µS PW Max
Control Input Characteristics: TTL / Unit-Load / Floating-High
Control Logic: 16-Controls, “0”= RF Path “ON”
Power Supplies: +5(±0.25)V @ 430mA Max
..... -12(±0.5)V @ 150mA 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]

■ **RF Connectors**

- B1 [J1 – J16 Ports with SMA(M)]
- B2 [All SMA (M)]
- B3 [COM Port with SMA(M)]

■ **Control Function**

- F1 [Inverse Logic, (“1” = Path “ON”)]
- F2 [4-Bit Binary Controls + Enable] ; see below for “Outline Drawing” and “Function Table”

■ **Video Suppression Filter**

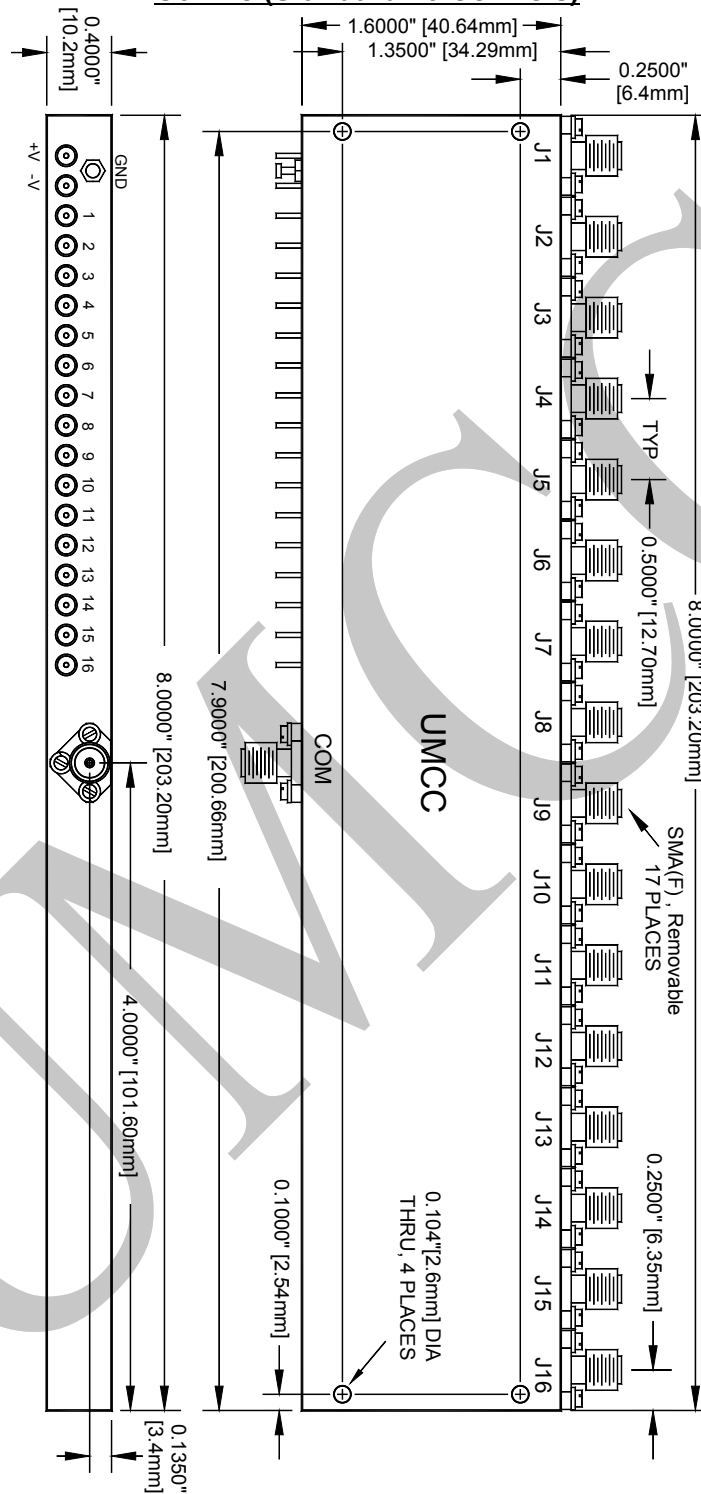
- G1 [VF @ COM Port <> 0.25 dB additional Loss]
- G2 [VF @ J1 – J16 Ports <> 0.25 dB additional Loss]
- G3 [VF @ All Ports <> 0.5 dB additional Loss]

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



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Outline (Standard 16 Controls)

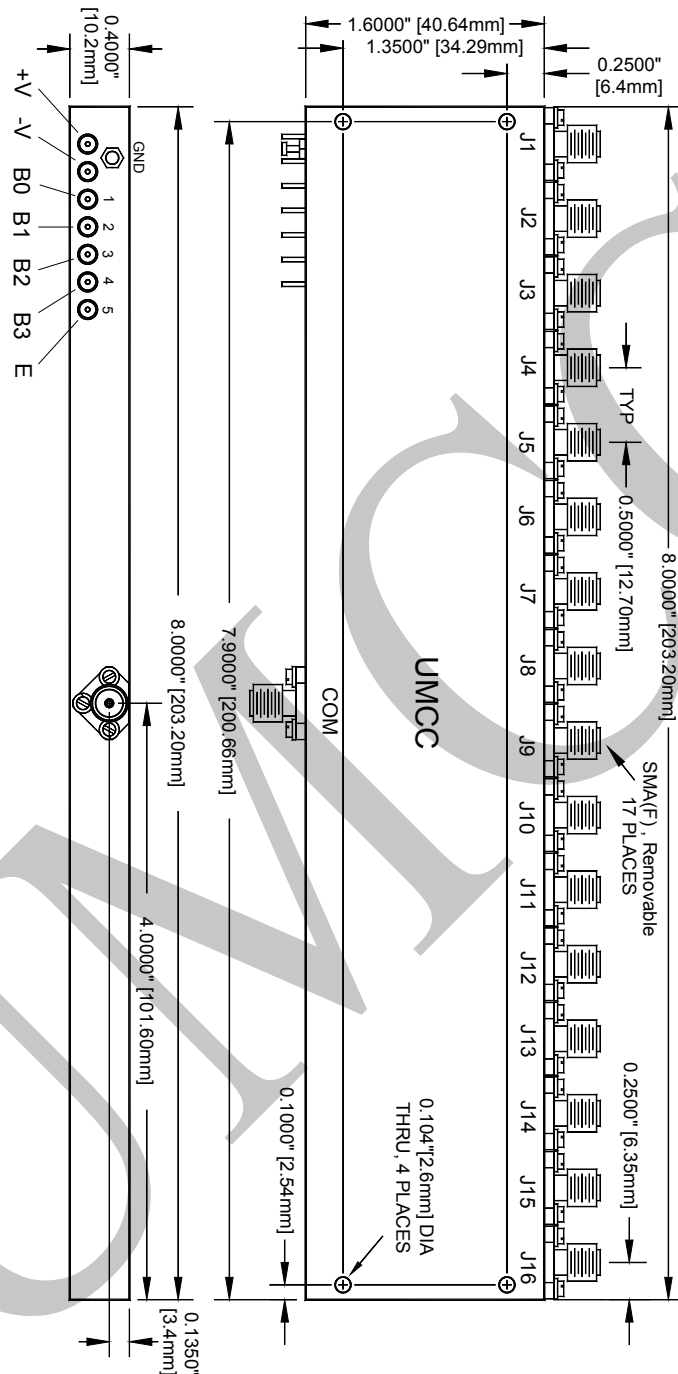


Weight	Tolerances
6.5 oz [184g]	±0.015" [±0.38mm]



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Outline (Option "F2" for 4-Bit Binary Control + Enable)



Weight	Tolerances
6.5 oz [184g]	±0.015" [±0.38mm]



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Function Table for Option "F2" (4-Bit Binary Control + Enable)

INPUTS					RF PATH FROM "COM" PORT TO "JXX" PORT															
E	B3	B2	B1	B0	J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	J11	J12	J13	J14	J15	J16
0	0	0	0	0	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
0	0	0	0	1	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
0	0	0	1	0	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
0	0	0	1	1	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
0	0	1	0	0	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
0	0	1	0	1	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
0	0	1	1	0	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
0	0	1	1	1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
0	1	0	0	0	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
0	1	0	0	1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
0	1	0	1	0	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
0	1	0	1	1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF
0	1	1	0	0	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF
0	1	1	0	1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF
0	1	1	1	0	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
0	1	1	1	1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON
1	X	X	X	X	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF