



Model: SR-3010-6S

| | |
|---|--------------------------------------|
| Description:..... | SP6T, Absorptive, PIN-Switch |
| Operating Frequency:..... | 10 – 3000 MHz |
| Insertion Loss: | 2.2dB Max |
| Isolation (Arm-to-Arm): | 60dB Min |
| VSWR (RF Path “ON” or “OFF”): | 1.5:1 Max |
| Rise/Fall time (10% to 90% RF, 90% to 10% RF): ... | 200 ns Max |
| On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF):..... | 300 ns Max |
| Operating Power:..... | CW / AVG |
| | * |
| | Peak: |
| Control Input Characteristics: | TTL / Unit-Load / Floating-High |
| Control Logic:..... | 6-Controls, Logic “0” = RF Path “ON” |
| Power Supplies:..... | +5(±0.25)V @ 200mA Max |
| | -12(±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(±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)]

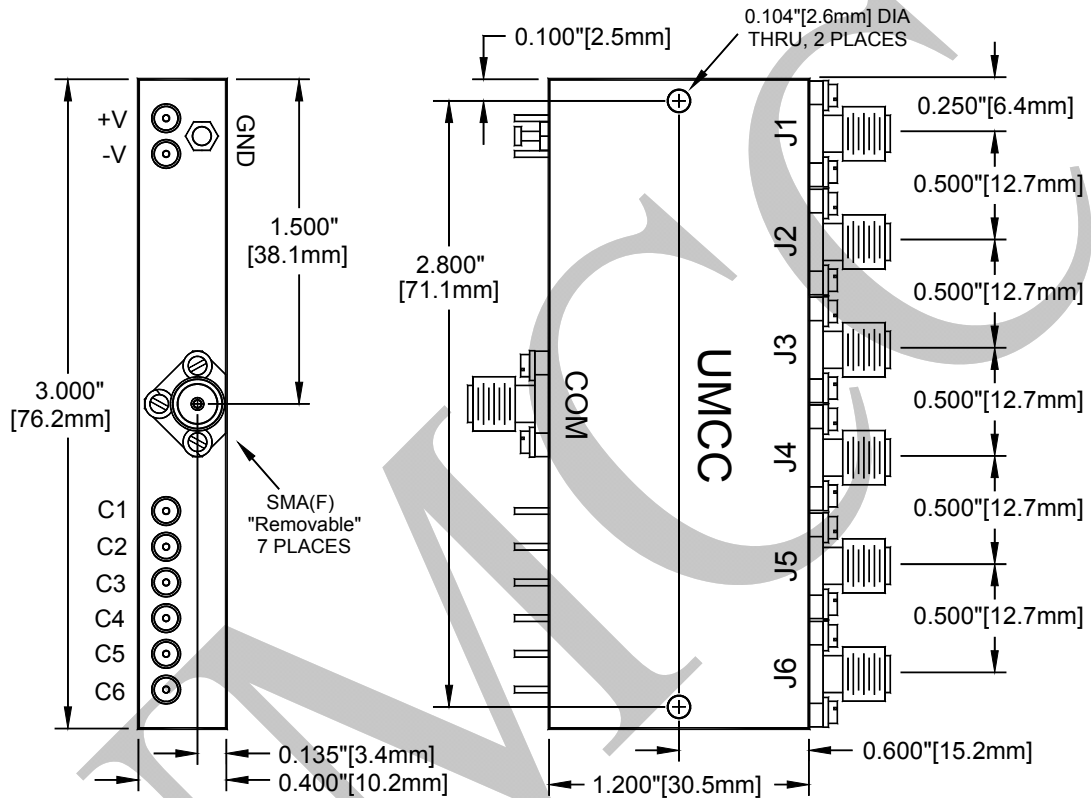
■ **Control Function**

- F1 [Inverse Logic, (“1” = Path “ON”)]
- F2 [3-Bit Binary Controls + Enable] ; see below for “Outline Drawing” and “Function Table”



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Outline

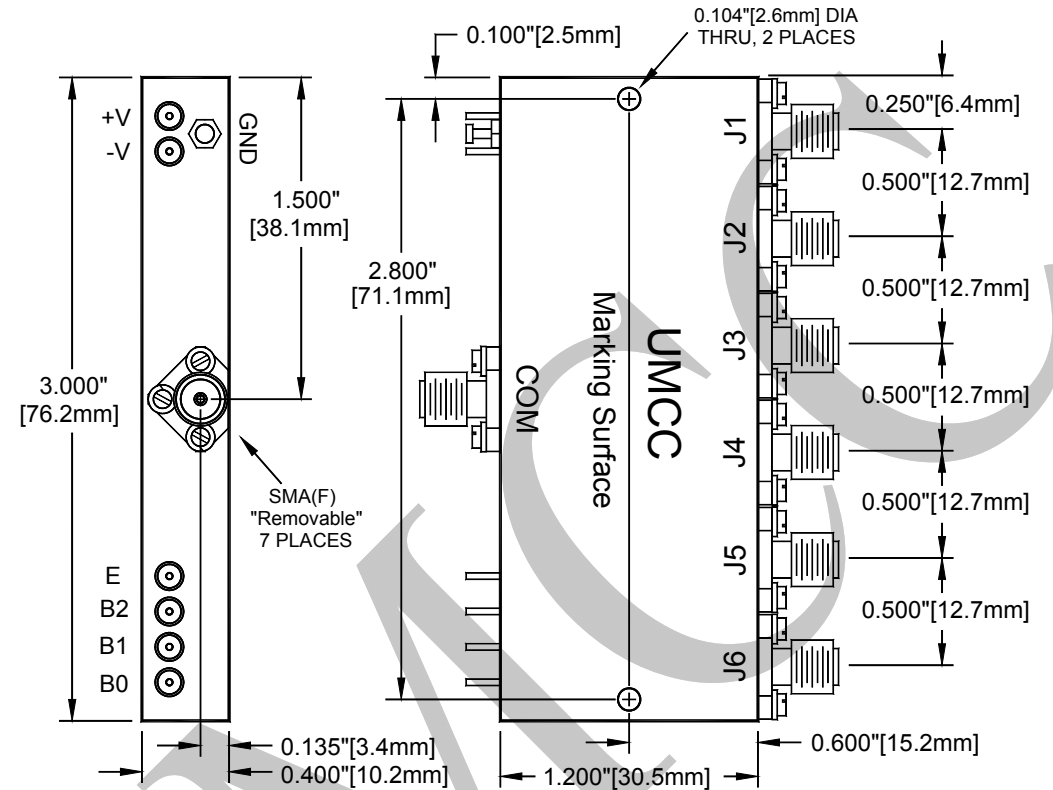


| Weight | Tolerances |
|----------------|-------------------|
| 2.1 oz [59.5g] | ±0.015" [±0.38mm] |



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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 |