



**Model: SR-U000-4S**

|  |                                      |
|--|--------------------------------------|
| Description:                                       | SP4T, Reflective, PIN-Switch         |
| Operating Frequency:                               | 0.5 – 18 GHz                         |
| Insertion Loss:                                    | 3.0 dB Max                           |
| Isolation:   | 70 dB Max                            |
| VSWR (“ON” paths):                                 | 1.9:1 Max                            |
| Rise/Fall time (10% to 90% RF, 90% to 10% RF):     | 25 ns Max                            |
| On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF): | 60 ns Max                            |
| Operating Power:                                   | CW&AVG: +30dBm Max                   |
|  | Peak: 10W @ 1µS PW Max               |
| Control Input Characteristics:                     | Std. TTL / Unit-Load / Floating-High |
| Control Logic:                                     | 4-Controls, Logic “0” = RF Path “ON” |
| Power Supplies:                                    | +5(±0.25)V @ 140mA Max               |
|  | -12(±0.5)V @ 70mA 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 – J4 Ports with SMA(M) ]
- B2 [ All SMA (M) ]
- B3 [ COM Port with SMA(M) ]

■ **Control Function**

- F1 [ Inverse Logic, (“1” = Path “ON”) ]
- F2 [ 2-Bit Binary Controls + Enable ] ; see below for “Outline Drawing” and “Function Table”

■ **Video Suppression Filter**

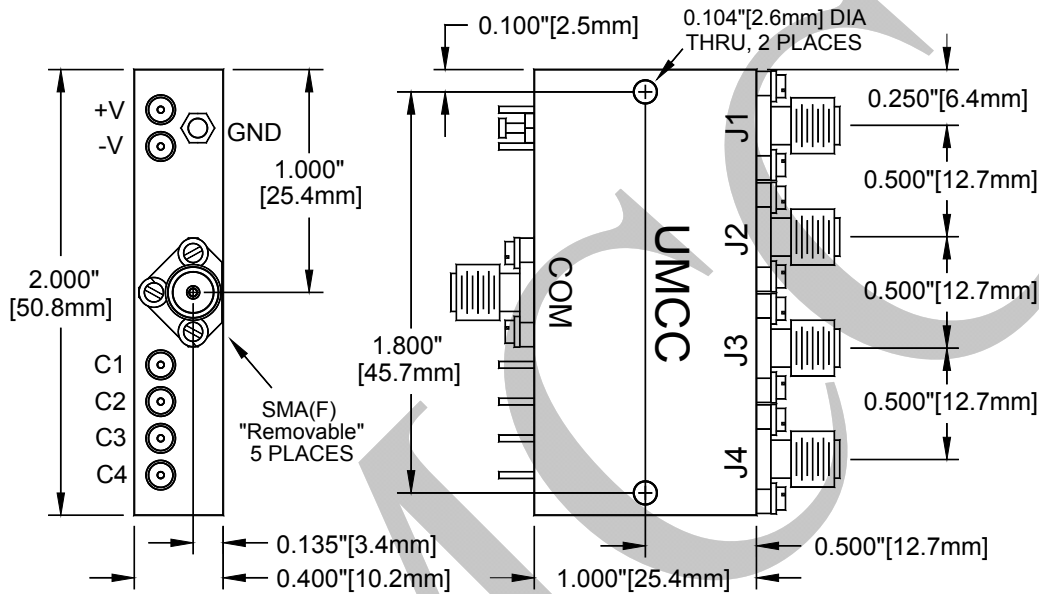
- G1 [ VF @ COM Port <> 0.25 dB additional Loss ]
- G2 [ VF @ J1 – J4 Ports <> 0.25 dB additional Loss ]
- G3 [ VF @ All Ports <> 0.5 dB additional Loss ]

\* Recommended for Low Power Consumption <> Additional 50ns Switching Delay (On/Off Time)



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**Outline**

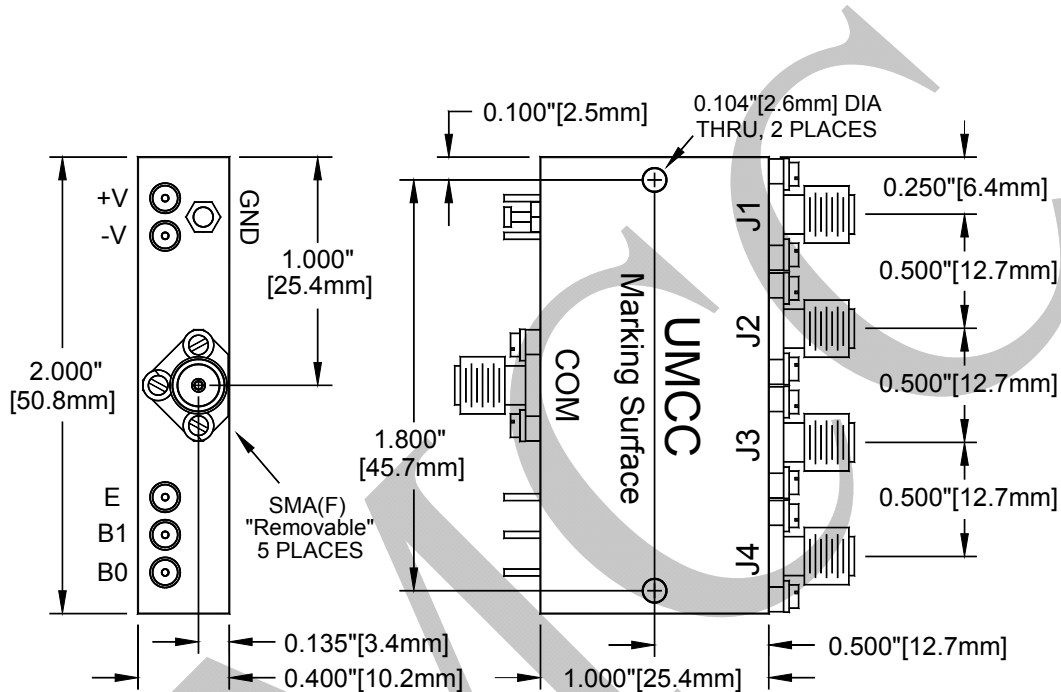


| Weight         | Tolerances        |
|----------------|-------------------|
| 1.3 oz [36.9g] | ±0.015" [±0.38mm] |



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**Outline Drawing (SP4T with Option "F2")**



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

**Function Table for Option "F2" (2-Bit Binary Control + Enable)**

| INPUTS |    |    | RF PATH |     |     |     |
|--------|----|----|---------|-----|-----|-----|
| E      | B1 | B0 | J1      | J2  | J3  | J4  |
| 1      | 0  | 0  | ON      | OFF | OFF | OFF |
| 1      | 0  | 1  | OFF     | ON  | OFF | OFF |
| 1      | 1  | 0  | OFF     | OFF | ON  | OFF |
| 1      | 1  | 1  | OFF     | OFF | OFF | ON  |
| 0      | X  | X  | OFF     | OFF | OFF | OFF |