



## Model: SR-DA3W-10S

|                                                    |                                            |
|----------------------------------------------------|--------------------------------------------|
| Description:                                       | SP10T, Reflective, PIN-Switch              |
| Operating Frequency:                               | 0.2 – 4 GHz                                |
| Insertion Loss:                                    | 2.2 dB Max                                 |
| Isolation (Arm-to-Arm):                            | 70 dB Min                                  |
| VSWR (“ON” paths):                                 | 1.6:1 Max                                  |
| Rise/Fall time (10% to 90% RF, 90% to 10% RF):     | 350 ns Max                                 |
| On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF): | 400 ns Max                                 |
| Operating Power:                                   | CW&AVG.....+27dBm Max                      |
|                                                    | Peak:.....5W @ 1μS PW & 10% Duty-Cycle Max |
| Control Input Characteristics:                     | Std. TTL / Unit-Load / Floating-High       |
| Control Logic:                                     | 10-Controls, Logic “0” = RF Path “ON”      |
| Power Supplies:                                    | +5(±0.25)V @ 120mA Max                     |
|                                                    | -12(±0.5)V @ 120mA 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 ]

#### ■ Control/Supply Connector(s)

- E1 [ 15-Pin Micro-D Male (Plug) with Jack-Posts ]
- .... see Fig.2 in Web Site for Outline Drawing ....

#### ■ RF Connectors

- B1 [ J1 – J10 Ports with SMA(M) ]
- B2 [ All SMA (M) ]
- B3 [ COM Port with SMA(M) ]

#### ■ Control Function

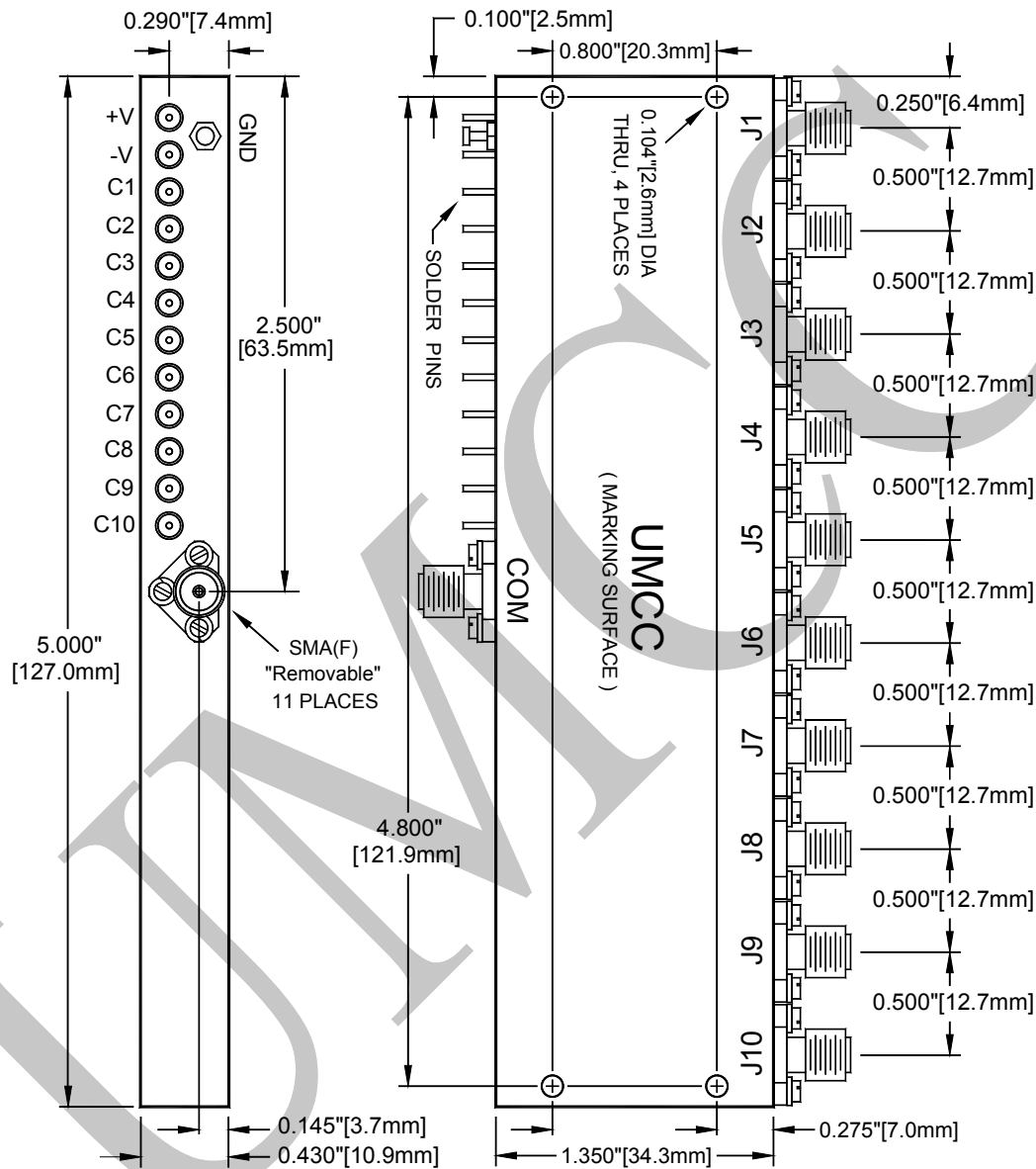
- F1 [ Inverse Logic, (“1” = Path “ON”) ]
- F2 [ 4-Bit Binary Controls + Enable ] ; see below for “Outline Drawing” and “Function Table”

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



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### Outline

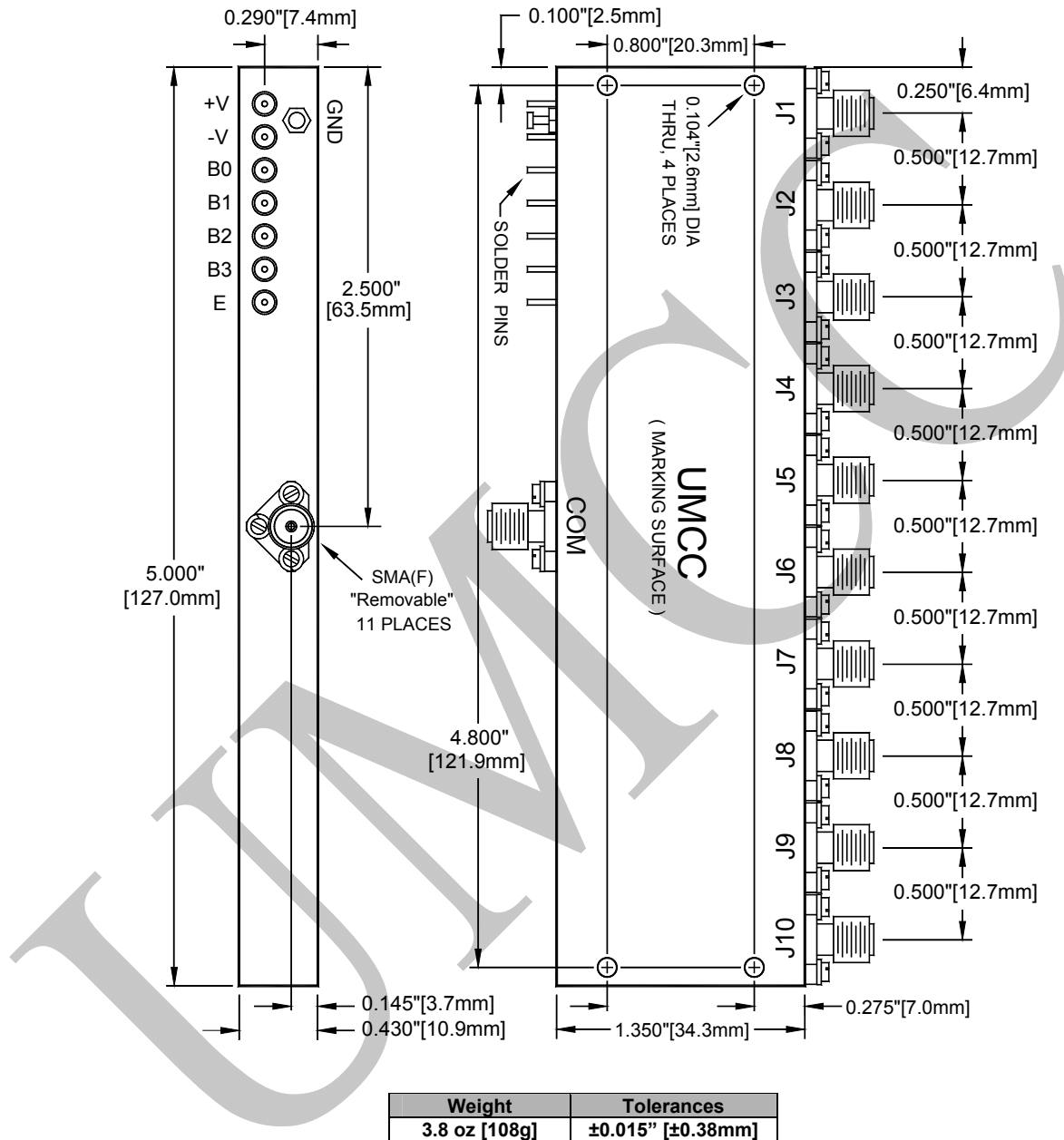


| Weight        | Tolerances        |
|---------------|-------------------|
| 3.8 oz [108g] | ±0.015" [±0.38mm] |



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





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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 |
| 0      | 0  | 0  | 0  | 0  | ON                                    | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| 0      | 0  | 0  | 0  | 1  | OFF                                   | ON  | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| 0      | 0  | 0  | 1  | 0  | OFF                                   | OFF | ON  | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| 0      | 0  | 0  | 1  | 1  | OFF                                   | OFF | OFF | ON  | OFF | OFF | OFF | OFF | OFF | OFF |
| 0      | 0  | 1  | 0  | 0  | OFF                                   | OFF | OFF | OFF | ON  | OFF | OFF | OFF | OFF | OFF |
| 0      | 0  | 1  | 0  | 1  | OFF                                   | OFF | OFF | OFF | OFF | ON  | OFF | OFF | OFF | OFF |
| 0      | 0  | 1  | 1  | 0  | OFF                                   | OFF | OFF | OFF | OFF | OFF | ON  | OFF | OFF | OFF |
| 0      | 0  | 1  | 1  | 1  | OFF                                   | OFF | OFF | OFF | OFF | OFF | OFF | ON  | OFF | OFF |
| 0      | 1  | 0  | 0  | 0  | OFF                                   | OFF | OFF | OFF | OFF | OFF | OFF | OFF | ON  | OFF |
| 0      | 1  | 0  | 0  | 1  | 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 |