



Model: SR-DA1W-12S

| | |
|---|---|
| Description:..... | SP12T, Absorptive, PIN-Switch |
| Operating Frequency:..... | 0.2 – 4 GHz |
| Insertion Loss:..... | 2.4 dB Max |
| Isolation:..... | 70 dB Min |
| VSWR (RF Path “ON” or “OFF”):..... | 1.7:1 Max |
| Rise/Fall time (10% to 90% RF, 90% to 10% RF):... .. | 250 ns Max |
| On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF):..... | 300 ns 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:..... | 12-Controls, Logic “0” = RF Path “ON” |
| Power Supplies:..... | +5(±0.25)V @ 300mA Max |
| | -12(±0.5)V @ 150mA 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**

- E1 [15-Pin Micro-D Male (Plug) with Jack-posts]
“see Fig.2 in UMCC Web for Outline Drawing”

■ **RF Connectors**

- B1 [J1 – J12 Ports with SMA(M)]
- B2 [All SMA (M)]
- B3 [COM Port with SMA(M)]

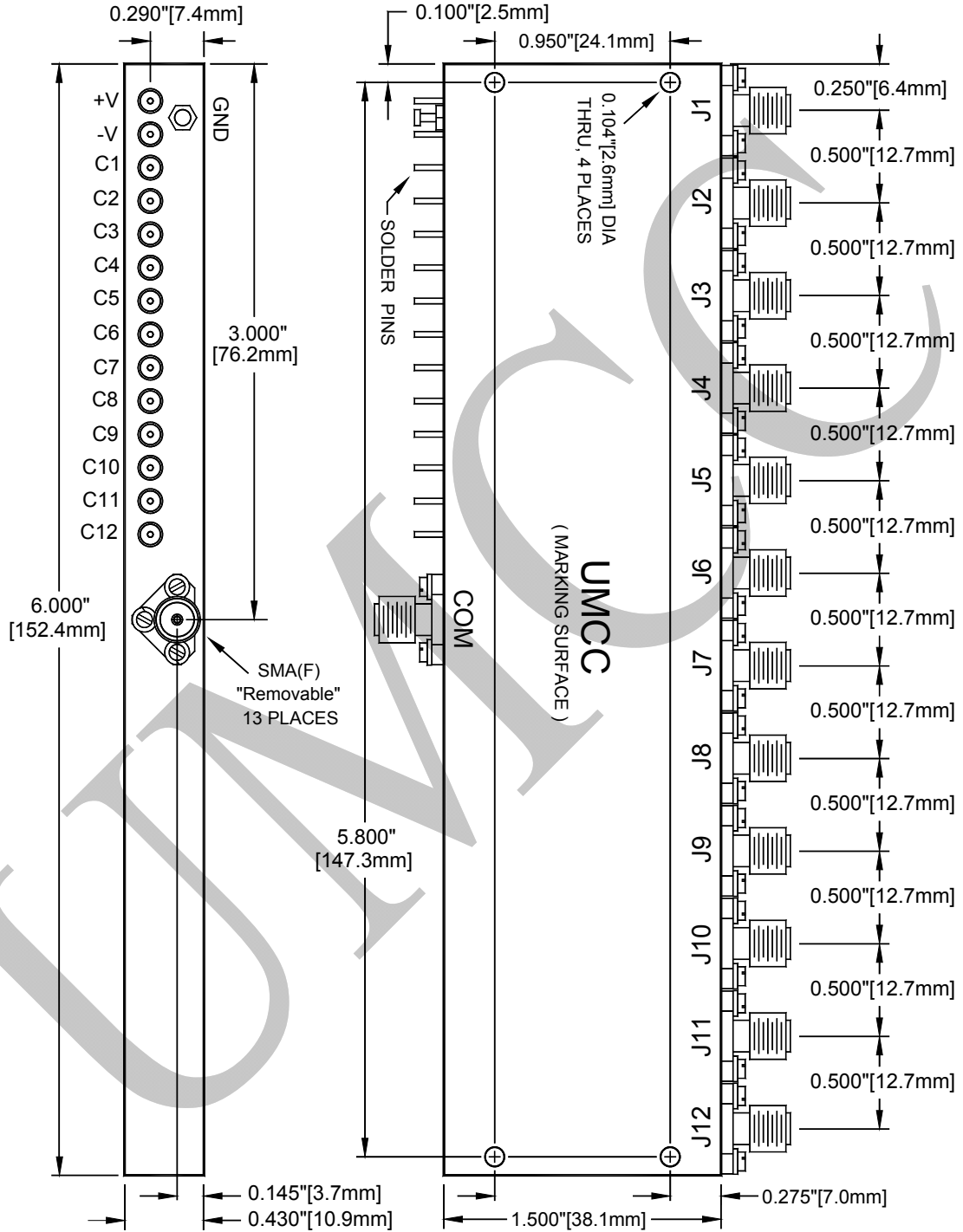
■ **Control Function**

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



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Outline



| Weight | Tolerances |
|--------|-------------------|
| | ±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 |
| 0 | 0 | 0 | 0 | 0 | ON | 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 |
| 0 | 0 | 0 | 1 | 0 | OFF | OFF | ON | 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 |
| 0 | 0 | 1 | 0 | 0 | OFF | OFF | OFF | OFF | ON | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| 0 | 0 | 1 | 0 | 1 | OFF | OFF | OFF | OFF | OFF | ON | OFF | OFF | OFF | OFF | OFF | OFF |
| 0 | 0 | 1 | 1 | 0 | OFF | OFF | OFF | OFF | OFF | OFF | ON | OFF | OFF | OFF | OFF | OFF |
| 0 | 0 | 1 | 1 | 1 | OFF | OFF | OFF | OFF | OFF | OFF | OFF | ON | OFF | OFF | OFF | OFF |
| 0 | 1 | 0 | 0 | 0 | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | ON | OFF | OFF | OFF |
| 0 | 1 | 0 | 0 | 1 | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | ON | OFF | OFF |
| 0 | 1 | 0 | 1 | 0 | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | ON | OFF |
| 0 | 1 | 0 | 1 | 1 | 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 |