



**Model: SR-3010-1S**

Description:..... SP1T, Absorptive Pin-Switch  
Operating Frequency:..... 10 – 3000 MHz  
Insertion Loss: ..... 2.0 dB Max  
Isolation:

10 - 2000 MHz	2000 - 3000 MHz
70 dB Min	65 dB Max

VSWR (RF Path "ON" or "OFF"):

10 - 20 MHz	20 - 3000 MHz
1.8:1 Max	1.4:1 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):..... 900 ns Max  
Operating Power:..... CW / AVG ..... +27 dBm Max  
..... Peak: ..... 5W @ 5µS PW Max  
Control Input Characteristics: ..... TTL /Unit-Load, Floating-High  
Control Logic:..... 1-Control, Logic "0" = RF Path "ON"  
Power Supplies:..... +5(±0.25) V @ 80mA Max  
..... -12(±0.5) V @ 80mA 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 SMA(M) / J2 SMA(F) ]
- B2 [ J1 SMA(F) / J2 SMA(M) ]
- B3 [ All SMA(M) ]

■ **Control Connectors**

- C1 [ SMC(Jack), 50 Ω ]
- C2 [ SMB(Jack), 50 Ω ]

■ **Control Impedance**

- D1 [ 50 Ω, Internally Terminated ]

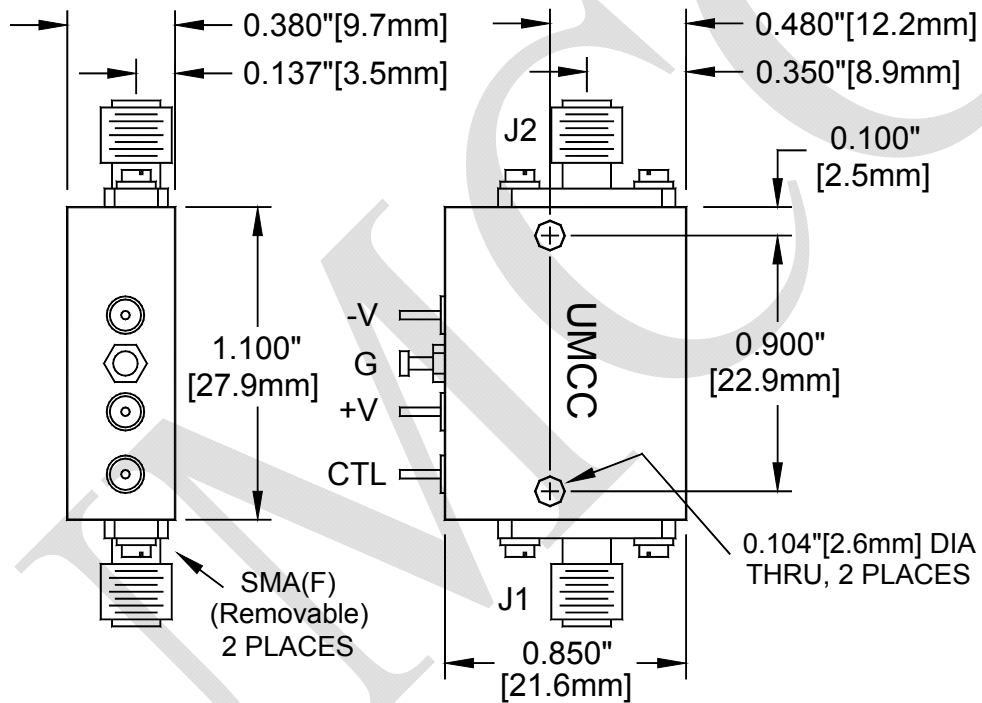
■ **Control Function**

- F1 [ Inverse Logic, ("1" = Path "ON") ]



Model: SR-3010-1S

**Outline**



Weight	Tolerances
0.7 oz [19.8g]	±0.015" [±0.38mm]