



Model: SR-P010-1S

Description: SP1T, Absorptive Pin-Switch
Operating Frequency: 2 - 20 GHz
Insertion Loss: 3.1 dB Max
Isolation:

Table with 4 columns: Frequency bands (2-8 GHz, 8-14 GHz, 14-18 GHz, 18-20 GHz) and Isolation values (65 dB Min, 55 dB Min, 50 dB Min, 45 dB Min).

VSWR (RF Path "ON" or "OFF"): 1.8:1 Max
Rise/Fall time (10% to 90% RF, 90% to 10% RF): 15 ns Max
On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF): 60 ns Max
Operating Power: CW / AVG +24 dBm Max
Peak: 5W @ 1µS PW & 10% Duty-Cycle
Control Input Characteristics: Std. TTL / Unit-Load / Floating-High
Control Logic: 1-Control, Logic "0" = RF Path "ON"
Power Supplies: +5(±0.25) V @ 60mA Max
-12(±0.5) V @ 75mA 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 Impedance

- D1 [50 Ω, Internally Terminated]

Control Function

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

RF Connectors

- B1 [J1 SMA(M) / J2 SMA(F)]
B2 [J1 SMA(F) / J2 SMA(M)]
B3 [All SMA(M)]

Video Suppression Filter

- G1 [VF @ J2 Port <> 0.25 dB additional Loss]
G2 [VF @ J1 & J2 Ports <> 0.5 dB additional Loss]

Control Connectors

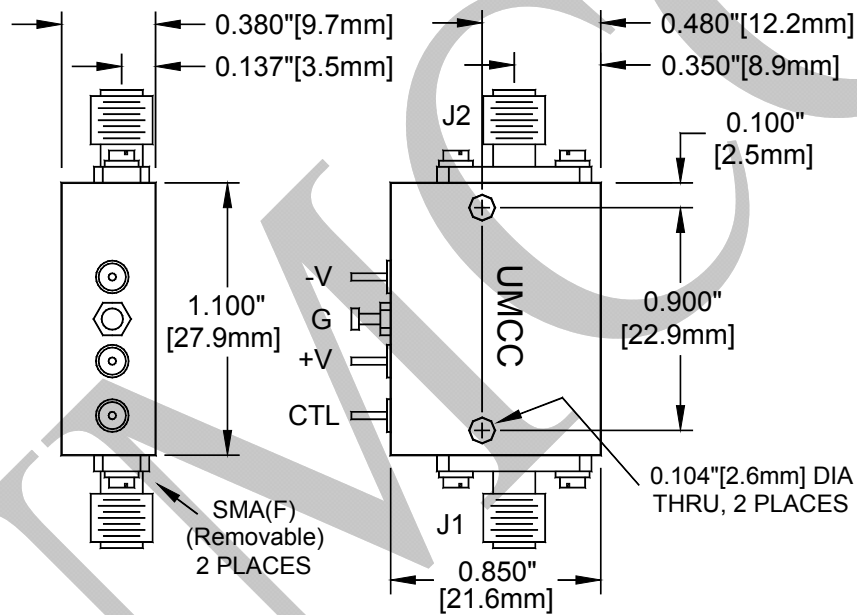
- C1 [SMC(Jack), 50 Ω]
C2 [SMB(Jack), 50 Ω]

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



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Outline



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