



Model: SR-A41H-1S

Description: High Power SP1T, Absorptive PIN-Switch
Operating Frequency: 40-4000 MHz
Insertion Loss:

Table with 2 columns: Frequency Range (40-2000 MHz, 2-4 GHz) and Insertion Loss (1.0 dB Max, 1.5 dB Max)

Isolation:

Table with 2 columns: Frequency Range (40-2000 MHz, 2-4 GHz) and Isolation (50 dB Min, 40 dB Min)

VSWR (RF Path "ON" or "OFF"): 1.3:1 Max
Rise/Fall time (10% to 90% RF, 90% to 10% RF): 3.8 µs Max
On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF): 4.0 µs Max
Switching Frequency: 500 KHz Max
Operating Power: CW / AVG 4W (+36dBm) Max
Peak: 40W @ 10µS PW Max
Control Input Characteristics: Std. TTL / Unit-Load / Floating-High
Control Logic: 1-Control, Logic "0" = RF Path "ON"
Power Supplies: +5(±0.25) V @ 60 mA Max
-5 (±0.25) V @ 50 mA 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

- A0 [+5(±0.25)V / -12(±0.5)V]
A2 [+5(±0.25)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")]

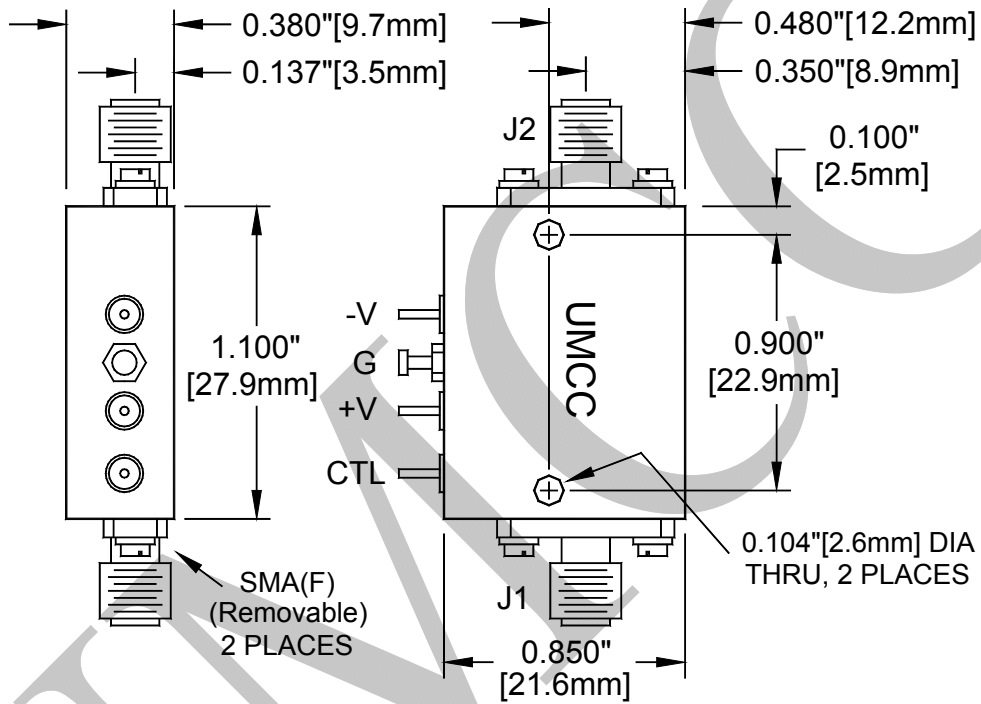
Single Side Terminated (Model: SR-A4SH-1S)

- [J1 Port Absorptive <> J2 Port Reflective]



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Outline



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