



Model: SR-V700-1S

Description: SP1T, Reflective, PIN-Switch
Operating Frequency: 0.3 - 18 GHz
Insertion Loss: 2.5 dB Max
Isolation:

Table with 2 columns: Frequency Range (0.3 - 12 GHz, 12 - 18 GHz) and Isolation (95 dB Min, 80 dB Min)

VSWR (RF Path "ON"): 1.8:1 Max
Rise/Fall time (10% to 90% RF, 90% to 10% RF): 20 ns Max
On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF): 100 ns Max
Operating Power: CW/AVG +27dbm Max, Peak 5W @ 1µs-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 @ 60mA Max, -12(±0.5)V @ 60mA 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

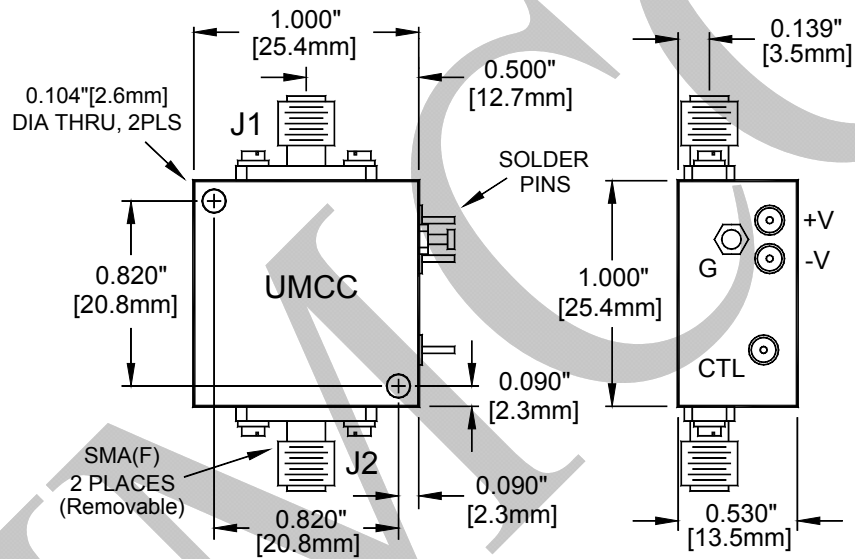
- C1 [SMC(Jack), 50 Ω]
C2 [SMB(Jack), 50 Ω]

* Additional 50ns Switching Delay (the On/Off Time)



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Outline



Weight	Tolerances
0.8 oz [22.7g]	±0.015" [±0.38mm]