



Model: SR-U000-1S

Description:..... SP1T, Reflective Pin-Switch

Operating Frequency:..... 0.5 - 18 GHz

Insertion Loss:

0.5 - 2 GHz	2 - 12.4 GHz	12.4 - 18 GHz
1.7 dB Max	2.2 dB Max	2.6 dB Max

Isolation:

0.5 - 1 GHz	1-2 GHz	2 - 18 GHz
60 dB Min	65 dB Min	80 dB Min

VSWR (RF Path "ON"): 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): 50 ns Max
 Operating Power:..... CW / AVG +30 dBm Max
 Peak: 20W @ 1µS PW Max
 Harmonic Distortion: 75dBc Max @ +30dBm
 Control Input Characteristics: TTL /Unit-Load, 1-Control / Flouting-High
 Control Logic:..... Logic "0" = RF Path "ON"
 Power Supplies:..... +5(±0.25) V @ 50mA Max
 -12(±0.5) V @ 50mA Max
 Connectors (RF): SMA (F), Removable
 Connectors (Supplies & Controls) Solder Pins
 Impedance: 50 Ohms Nominal
 Weight: 0.7 oz [19.8 g]
 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")]

■ **Video Suppression Filter**

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



Model: SR-U000-1S

Outline

