



Model: SR-P010-1S

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

Operating Frequency:..... 2 – 20 GHz

Insertion Loss:

2 – 12.4 GHz	12.4 - 18 GHz	18 - 20 GHz
2.6 dB Max	3.3 dB Max	4.0 dB Max

Isolation:

2 – 12.4 GHz	12.4 - 18 GHz	18 - 20 GHz
65 dB Min	55 dB Min	50 dB Min

VSWR (RF Path “ON” or “OFF”): 1.9:1 Max
 Rise/Fall time (10% to 90% RF, 90% to 10% RF): 35 ns Max
 On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF): 75 ns Max
 Operating Power:..... CW / AVG +24 dBm Max
 Peak: 8W @ 1µS PW Max
 Harmonic Distortion: 65 dBc Max @ +24dBm
 Control Input Characteristics: TTL /Unit-Load, 1-Control / Flouting-High
 Control Logic:..... 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 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]



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Outline

