



Model: SW-U000-2S

Description:..... SP2T, Reflective, PIN-Switch
Operating Frequency:..... 0.5 - 18 GHz
Insertion Loss:

0.5 – 10 GHz	10 - 18 GHz
2.1 dB Max	2.7 dB Max

Isolation: 75 dB Min
VSWR (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): 50 ns Max
Phase Error (Port-to-Port): ±9° max
Operating Power:..... CW/AVG +30dbm Max
..... Peak 10W @ 1µs-PW Max
Harmonic Distortion: 75 dBc Max @ +30dBm
Control Input Characteristics: TTL /Unit-Load, 2-Controls/Flouting-High
Control Logic:..... Logic "0" = RF Path "ON"
Power Supplies:..... +5(±0.25) V @ 85mA 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 & J2 Ports with SMA(M)]
- B2 [All SMA (M)]
- B3 [COM Port with 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")]
- F2 [Single Toggle Control ("1" for J1 path "ON")]

■ **Video Suppression Filter**

- G1 [VF @ COM Port <> 0.25 dB additional Loss]
- G2 [VF @ J1 & J2 Ports <> 0.25 dB additional Loss]
- G3 [VF @ All Ports <> 0.5 dB additional Loss]



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Outline

