



Model: SW-3000-2S

Description:..... SP2T, Reflective, PIN-Switch

Operating Frequency:..... 10 – 3000 MHz

Insertion Loss:

10 – 1000 MHz	1000 - 3000 MHz
1.3 dB Max	1.7 dB Max

Isolation:

10 – 1000 MHz	1000 - 3000 MHz
60 dB Min	55 dB Min

VSWR (“ON” paths):..... 1.5:1 Max
 Rise/Fall time (10% to 90% RF, 90% to 10% RF):... 350 ns Max
 On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF):..... 900 ns Max
 Phase Error (Port-to-Port): ±2° max
 Operating Power:..... CW&AVG..... +30dBm Max
 Peak: 5W @ 5µS PW Max
 Harmonic Distortion: 60dBc 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 @ 50mA Max
 -12(±0.5)V @ 60mA 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”)]



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Outline

