



**Model: SW-CA10-2S**

Description:	SP2T, Absorptive, PIN-Switch
Operating Frequency:	40 – 2400 MHz
Insertion Loss:	1.7 dB Max
Isolation:	70 dB Min
VSWR (RF Path "ON" or "OFF"):	1.4:1 Max
Rise/Fall time (10% to 90% RF, 90% to 10% RF):	150 ns Max
On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF):	200 ns Max
Phase Error (Port-to-Port):	±1° max
Operating Power:..... CW&AVG.....	+30dBm
Peak:	8W @ 1µS PW Max
Harmonic Distortion:	65dBc 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 @ 90mA 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**

