



Model: SW-S070-7S

Description: SP7T, Absorptive, PIN-Switch
Operating Frequency: 2 - 18 GHz
Insertion Loss: 4.2 dB Max
Isolation (Arm-to-Arm):

Table with 2 columns: Frequency (2-15 GHz, 15-18 GHz) and Isolation (75 dB Min, 65 dB Min)

VSWR (RF Path "ON" or "OFF"): 2:1 Max
Rise/Fall time (10% to 90% RF, 90% to 10% RF): 50 ns Max
On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF): 90 ns Max
Phase Balance (Deviation from Median): +/- 7 degrees max
Operating Power: CW&AVG: +24 dBm Max
Peak: 5W @ 1us PW & 10% Duty-Cycle Max
Control Input Characteristics: Std. TTL / Unit-Load / Floating-High
Control Logic: 7-Controls, Logic "0" = RF Path "ON"
Power Supplies: +5(+/-0.25)V @ 240mA Max
-12(+/-0.5)V @ 90mA Max
Connectors (RF): SMA (f), Removable
Connectors (Supplies/Controls): Solder Pins
Impedance: 50 Ohms Nominal
Quality: Best-Commercial-Grade

Environmental Ratings:

Temperature: {Operating: -55C to +95C} & {Storage: -60C to +110C}
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]

Control Function

- F1 [Inverse Logic, ("1" = Path "ON")]

RF Connectors

- B1 [J1 - J7 Ports with SMA(M)]
B2 [All SMA (M)]
B3 [COM Port with SMA(M)]

Video Suppression Filter

- G1 [VF @ COM Port <> 0.25 dB additional Loss]
G2 [VF @ J1 - J7 Ports <> 0.25 dB additional Loss]
G3 [VF @ All Ports <> 0.5 dB additional Loss]

* Recommended for Low Power Consumption <> Additional Switching Delay (ON/OFF time)



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