



Model: SW-U070-3S

Description:..... SP3T, Absorptive, PIN-Switch

Operating Frequency:..... 0.5 – 18 GHz

Insertion Loss:

0.5 – 10 GHz	10 – 18 GHz
3.0 dB Max	3.9 dB Max

Isolation:

0.5 – 10 GHz	10 – 18 GHz
85 dB Min	80 dB Min

VSWR (RF Path “ON” or “OFF”): 2:1 Max
 Rise/Fall time (10% to 90% RF, 90% to 10% RF): 25 ns Max
 On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF): 50 ns Max
 Phase Error (Port-to-Port): ±11° max
 Operating Power:..... CW&AVG..... +24dBm (+27dbm @ COM Port)
 Peak: 5W @ 1µS PW Max
 Harmonic Distortion: 70dBc Max @ +27dBm
 Control Input Characteristics: TTL /Unit-Load, 3-Controls / Flouting-High
 Control Logic:..... Logic “0” = RF Path “ON”
 Power Supplies:..... +5(±0.25)V @ 120mA Max
 -12(±0.5)V @ 60mA Max
 Connectors (RF): SMA (f), Removable
 Connectors (Supplies/Controls) Solder Pins
 Impedance: 50 Ohms Nominal
 Weight:..... 1.0 oz [28.3 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 – J3 Ports with SMA(M)]
- B2 [All SMA (M)]
- B3 [COM Port with SMA(M)]

■ **Control Function**

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

■ **Video Suppression Filter**

- G1 [VF @ COM Port <> 0.25 dB additional Loss]
- G2 [VF @ J1 – J3 Ports <> 0.25 dB additional Loss]
- G3 [VF @ All Ports <> 0.5 dB additional Loss]



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Outline

