



Model: SW-T010-4S

Description:..... SP4T, Absorptive, PIN-Switch

Operating Frequency:..... 1 – 18 GHz

Insertion Loss:

1 – 10 GHz	10 – 18 GHz
2.5 dB Max	3.3 dB Max

Isolation:

1 – 10 GHz	10 – 18 GHz
70 dB Min	60 dB Min

VSWR (RF Path “ON” or “OFF”): 1.8:1 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): $\pm 7^\circ$ max
Operating Power:..... CW&AVG..... +24dBm (+27dbm @ COM Port)
..... Peak: 8W @ 1 μ S PW Max
Control Input Characteristics: TTL /Unit-Load / Floating-High
Control Logic:..... 4-Controls, Logic “0” = RF Path “ON”
Power Supplies:..... +5(± 0.25)V @ 140mA Max
..... -12(± 0.5)V @ 70mA Max
Connectors (RF): SMA (f), Removable
Connectors (Supplies/Controls) Solder Pins
Impedance: 50 Ohms Nominal
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 – J4 Ports with SMA(M)]
- B2 [All SMA (M)]
- B3 [COM Port with SMA(M)]

■ **Control Function**

- F1 [Inverse Logic, (“1” = Path “ON”)]
- F2 [2-BCD Control + Enable]

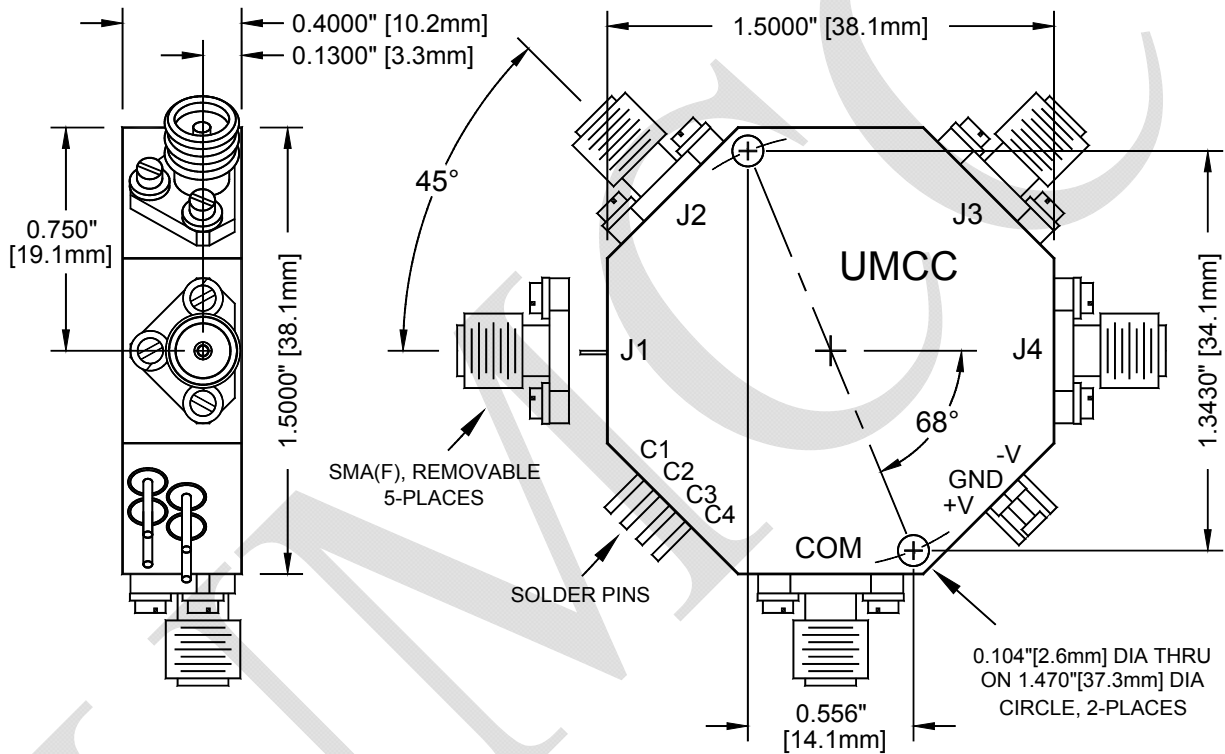
■ **Video Suppression Filter**

- G1 [VF @ COM Port <> 0.25 dB additional Loss]
- G2 [VF @ J1 – J4 Ports <> 0.25 dB additional Loss]
- G3 [VF @ All Ports <> 0.5 dB additional Loss]



Model: SW-T010-4S

Outline



Weight	Tolerances
1.2 oz [34.0g]	±0.015" [±0.38mm]