



Model: SW-U040-4S

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

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

Insertion Loss:

| | |
|--------------|-------------|
| 0.5 – 10 GHz | 10 – 18 GHz |
| 2.3 dB Max | 2.9 dB Max |

Isolation:

| | |
|--------------|-------------|
| 0.5 – 10 GHz | 10 – 18 GHz |
| 65 dB Min | 55 dB Min |

VSWR (“ON” paths):..... 1.9:1 Max
 Rise/Fall time (10% to 90% RF, 90% to 10% RF): ... 30 ns Max
 On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF):..... 60 ns Max
 Phase Error (Port-to-Port): ±7° max
 Operating Power:..... CW&AVG..... +27dBm Max
 Peak: 8W @ 1µS 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 @ 60mA 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]

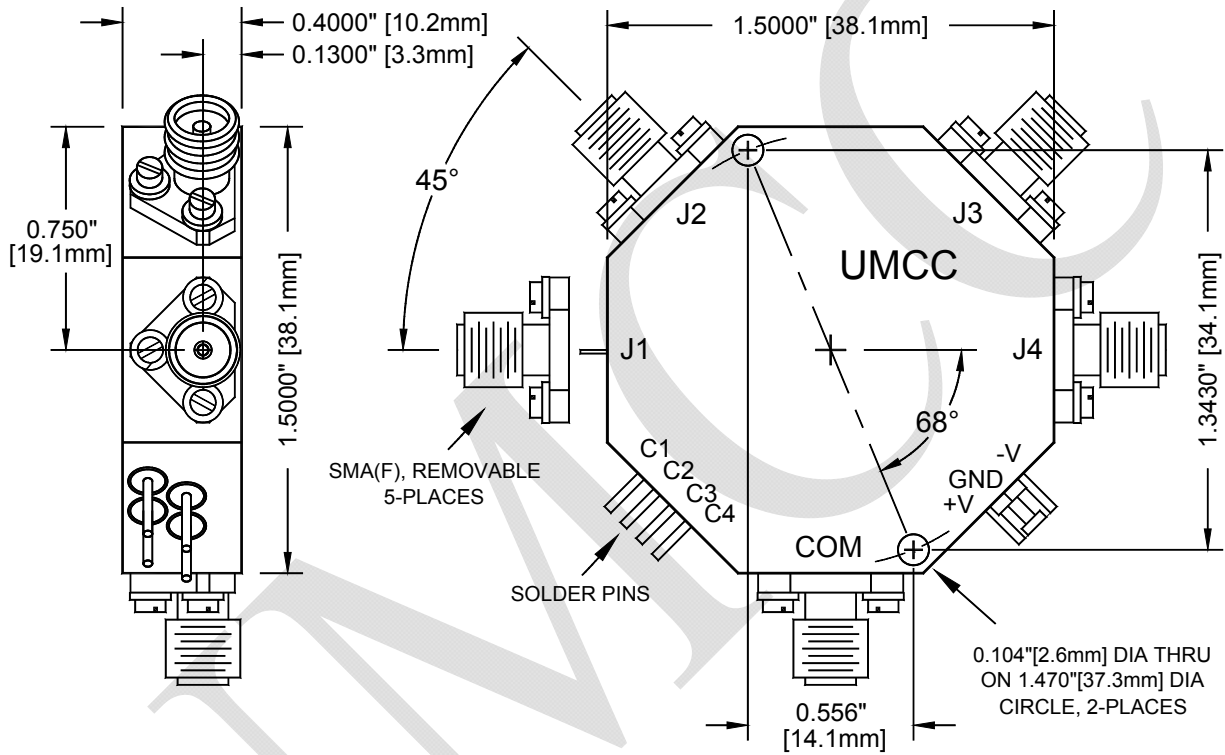
■ **Video Suppression Filter**

- 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]



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Outline



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