



**Model: SW-J030-3S**

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

Operating Frequency:..... 0.5 – 12.4 GHz

Insertion Loss:

|             |              |
|-------------|--------------|
| 0.5 – 6 GHz | 6 – 12.4 GHz |
| 2.1 dB Max  | 2.5 dB Max   |

Isolation:

|             |             |
|-------------|-------------|
| 0.5 – 6 GHz | 6 –12.4 GHz |
| 60 dB Min   | 55 dB Min   |

VSWR (“ON” paths):..... 1.7:1 Max  
 Rise/Fall time (10% to 90% RF, 90% to 10% RF):... 35 ns Max  
 On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF):..... 60 ns Max  
 Phase Error (Port-to-Port): ..... ±4° max  
 Operating Power:..... CW&AVG..... +27dBm Max  
 ..... Peak: ..... 8W @ 1µS PW Max  
 Control Input Characteristics: ..... TTL / Unit-Load / Floating-High  
 Control Logic:..... 3-Controls, Logic “0” = RF Path “ON”  
 Power Supplies:..... +5(±0.25)V @ 60mA Max  
 ..... -12(±0.5)V @ 60mA 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 – J3 Ports with SMA(M) ]
- B2 [ All SMA (M) ]
- B3 [ COM Port with SMA(M) ]

■ **Control Function**

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

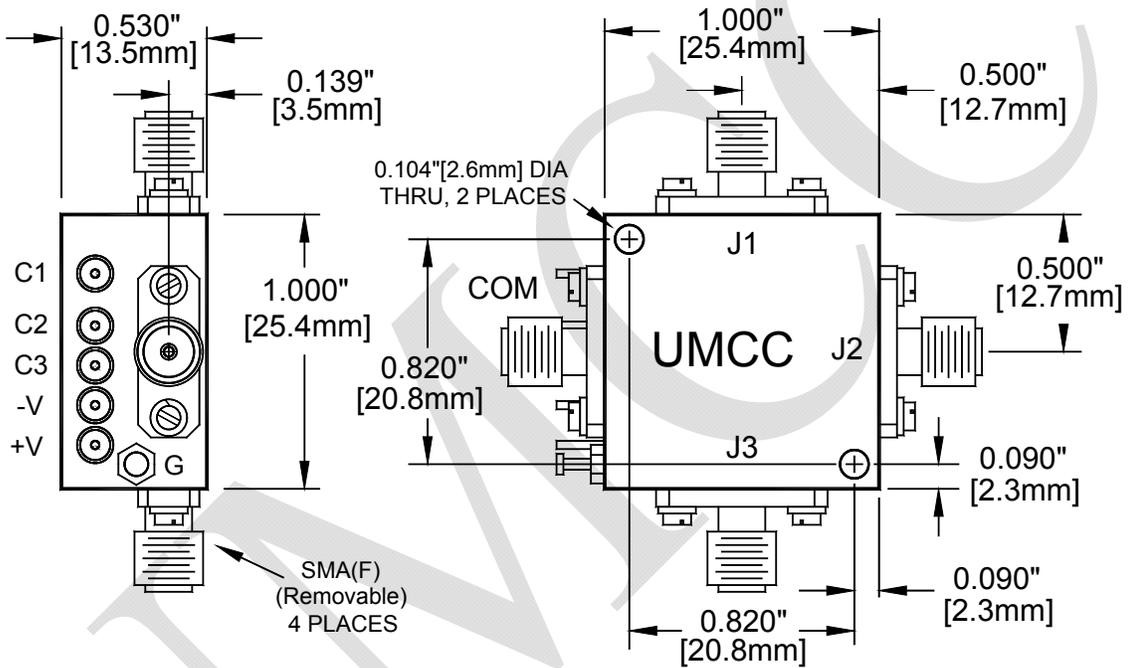
■ **Video Suppression Filter**

- 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 ]



Model: SW-J030-3S

**Outline**



| Weight         | Tolerances        |
|----------------|-------------------|
| 1.0 oz [28.4g] | ±0.015" [±0.38mm] |