



**Model: SW-K03W-7S**

Description:..... SP7T, Reflective, PIN-Switch  
 Operating Frequency:..... 1 – 15 GHz  
 Insertion Loss: ..... 3.4dB Max  
 Isolation:

1 – 6 GHz	6 – 12.4 GHz	12.4 –15 GHz
65 dB Min	60 dB Min	55 dB Min

VSWR (RF Path “ON”): ..... 1.85:1 Max  
 Rise/Fall time (10% to 90% RF, 90% to 10% RF): ... 350 ns Max  
 On/Off time (50% TTL to 90% RF, 50%TTL to 10% RF):..... 400 ns Max  
 Phase Balance (Deviation from Median):..... ±4° max  
 Operating Power:..... CW & AVG..... +27dBm Max  
 ..... Peak: ..... 5W @ 1µS 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 @ 80mA 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: -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 – J7 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**

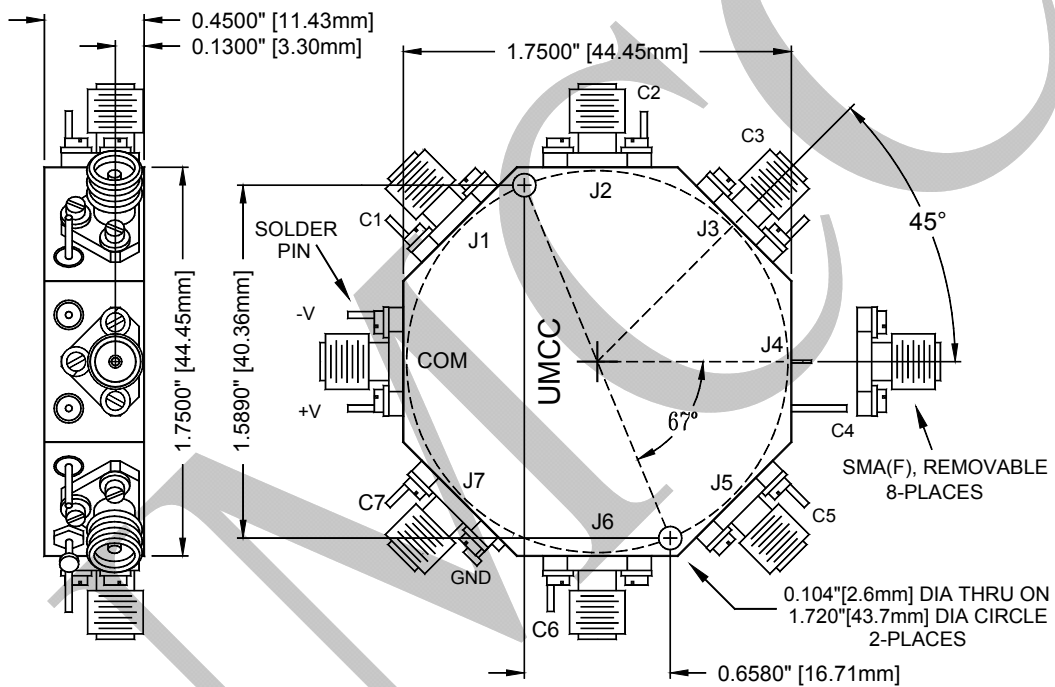
- G1 [ VF @ COM Port <> 0.25 dB additional Loss ]
- G2 [ VF @ J1 – J7 Ports <> 0.25 dB additional Loss ]
- G3 [ VF @ All Ports <> 0.5 dB additional Loss ]

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



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**Outline**



Weight	Tolerances
1.83 oz [51.9g]	±0.015" [±0.38mm]