



**Model: AE-CD00-40V**

Description: .....	Voltage Controlled PIN Attenuator
Operating Frequency:.....	1.1 – 3.3 GHz
Phase-Invariant Frequency Region (<±10 Deg) ..	1.7 – 2.5 GHz
Insertion Loss (0dB Attn. Ref.):.....	1.7 dB Max
Attenuation Range: .....	0 – 40 dB Nominal Min
Attenuation Flatness: .....	0.5 dB Peak-Peak ..... up to 10 dB
.....	0.9 dB Peak-Peak ..... up to 20 dB
.....	1.2 dB Peak-Peak ..... up to 30 dB
.....	1.5 dB Peak-Peak ..... up to 40 dB
Control Function:.....	0 – 4 V, 10dB/Volt, (Impedance = 5~10K)
Transfer Function Accuracy: .....	0 – 0.8 dB ..... ±50% Max
.....	> 0.8 – 10 dB ..... ±0.40 dB Max
.....	>10 - 30 dB ..... ±0.50 dB Max
.....	> 30 - 40 dB ..... ±0.90 dB Max
VSWR (all settings):.....	1.6:1 Max
Settling Time (“±1dB of Target Setting”):.....	500 ns Max, (5µs<PW<0.1s)
Power Handling: .....	Operating ..... +17 dBm CW/Peak Max
.....	Survival ..... +30 dBm CW/AVG Max
Connectors (RF):.....	SMA (f), Removable
Connector (Supply & Controls):.....	Solder Pins
Temperature Coefficient (over -20°C to +75°C) ..	±0.025dB/°C Max
Power Supply (internally regulated): .....	+12 to +15vdc @ 60mA Max
Impedance: .....	50 Ohms Nominal
Quality: .....	Best-Commercial-Grade

**Environmental Ratings:**

Temperature:.....	{Operating: -40°C to +85°C} & {Storage: -50°C to +100°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)

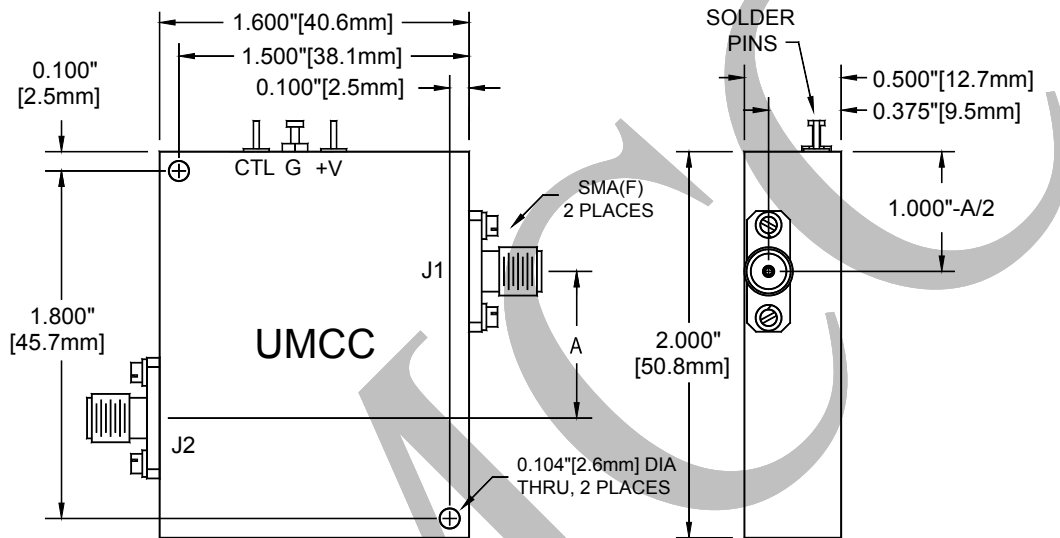
- RF Connectors
  - B1 [ J1 SMA (male) ]
  - B2 [ All SMA (male) ]
- Control Connector
  - C1 [ SMC (Jack), 50 Ω ]
  - C2 [ SMB (Jack), 50 Ω ]
  - C3 [ SMA (female) ]
- Transfer Functions
  - F1 [ Slope = 5dB/Volt ]
  - F3 [ Reverse Control Voltage (0V = Max Attenuation) ]



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### Outline

("A" = 0.950" [24.1mm])



Weight	Tolerances
2.2 oz [62.4 g]	±0.015" [±0.38mm]