Universal Microwave Components Corp.
5702-D General Washington Drive Alexandria, VA 22312 <> Web: www.umcc111.com
E-mail: sales@umcc111.com <> Tel: (703) 642-6332 <> Fax: (703) 642-2568

Model: AT-K000-60V

Description:		Voltage Controlled PIN Attenuator
Operating Frequency:		0.5 – 4 GHz
Insertion Loss (0dB Attn. Ref.):		3.5 dB Max
Attenuation Range:		0 - 60 dB Nominal
Attenuation Flatness:	0 – 20 dB	0.4 dB Peak-Peak Max
	>20 – 40 dB	0.7 dB Peak-Peak Max
	>40 – 60 dB	1.0 dB Peak-Peak Max
Control Function:		0 – 6V, 10dB/V, (Impedance = 5~10K)
Transfer Function Accuracy:	0 – 30 dB	±0.5 dB Max
	>30 – 60 dB	±1.0 dB Max
VSWR (all settings):		1.85:1 Max
Settling Time ("±1dB of Target Setting"):		3μs Max (10μs<PW<0.1S)
Power Handling:	Operating	+17 dBm CW/Peak Max
	Survival	+30 dBm CW/Avg Max
Temperature Coefficient (Over Operating Range):		±0.025 dB/ºC
Power Supply (internally regulated):		+12 to +15Vdc @ 150 mA
		-12 to -15Vdc @ 60 mA
Connectors (RF):		SMA (female), Removable
Connector (Supply & Controls):		Solder Pins
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)]
- Control Impedance
  - D1 [50 Ω, Internally Terminated]
- Transfer Functions
  - F1 [Slope = 5dB/V , 0 – 12V Control]
  - F3 [Reverse Control Voltage (0V = Max Attenuation)]

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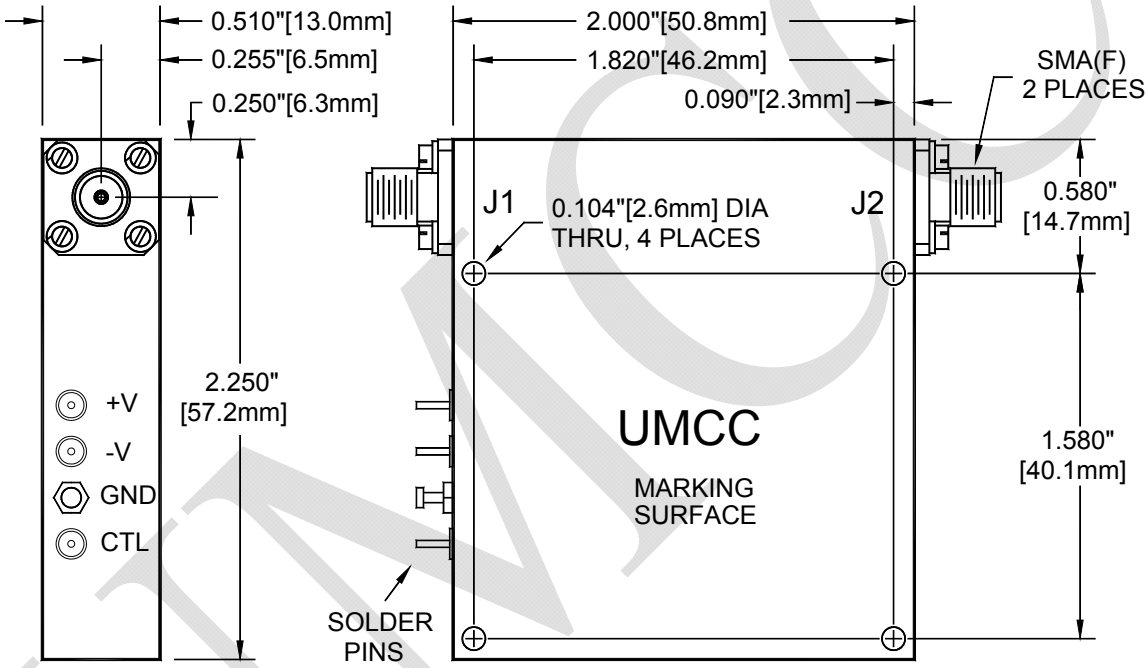
Outline



(Tolerances: ±0.015" [0.38mm] <> Weight = 2.7oz [77g])