



Model: AG-T000-60D

Description:	Digital Controlled PIN Attenuator
Operating Frequency:	1 – 18 GHz
Insertion Loss (0dB Attn. Ref.):	6.8 dB Max
Attenuation Range:	0 - 60 dB Nominal
Attenuation Flatness:	0 – 10 dB 1.2 dB Peak-Peak Max
	>10 – 20 dB 2.4 dB Peak-Peak Max
	>20 – 30 dB 3.6 dB Peak-Peak Max
	>30 – 40 dB 5.0 dB Peak-Peak Max
	>40 – 50 dB 6.0 dB Peak-Peak Max
	>50 – 60 dB 7.0 dB Peak-Peak Max
Control Function:	8 Bit Positive Binary TTL (LSB = 0.25dB, MSB = 32dB)
Transfer Function Accuracy:	±1.0 dB Max
VSWR (all settings):	1.9:1 Max
Settling Time (“±1dB of Target Setting”):	1µs Max (10µs<PW<0.1S)
Power Handling:	Operating +20 dBm CW/Peak Max
	Survival +30 dBm CW/Avg Max
Temperature Coefficient (Over Operating Range):	±0.025 dB/°C
Power Supply (internally regulated):	+12 to +15Vdc @ 150 mA Max
Connectors (RF):	SMA (female), Removable
Connector (Supply & Controls):	15-Pin D-Type Male
Impedance (Nominal):	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)]

■ Transfer Functions

- F3 [Inverse Logic (“00...00” = Max Attenuation)]

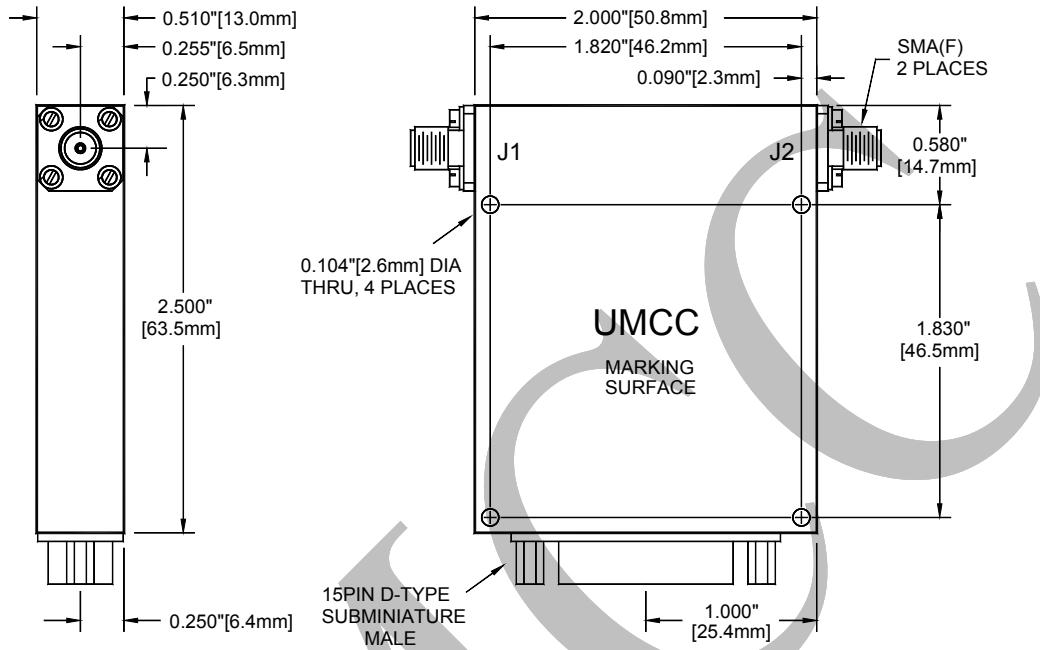
■ Control Function Resolution

- E1 [LSB = 1/8 dB <> 9-Bits <> “fractional steps”]
- R1 [LSB = 0.1 dB <> 10-Bits <> “decimal steps”]
- E2 [LSB = 1/16 dB <> 10-Bits <> “fractional steps”]
- R2 [LSB = 0.05 dB <> 11-Bits <> “decimal steps”]
- E3 [LSB = 1/32 dB <> 11-Bits <> “fractional steps”]
- E4 [LSB = 1/64 dB <> 12-Bits <> “fractional steps”]



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Outline



(Tolerances: $\pm 0.015"$ [0.38mm] <> Weight = 3.2oz [90.7g])

Pin-Out Function

PIN	Function
1	N/C
2	N/C
3	N/C
4	N/C
5	0.25 dB
6	0.5 dB
7	1.0 dB
8	2.0 dB
9	4.0 dB
10	8.0 dB
11	16.0 dB
12	32.0 dB
13	+VDC
14	N/C
15	GND (Chassis & Digital)

