



**Model: AG-2000-30D**

Description:.....	Digital Controlled PIN Attenuator
Operating Frequency:.....	10 – 2000 MHz
Insertion Loss (0dB Attn. Ref.): .....	2.8 dB Max
Attenuation Range:.....	0 – 30 dB Nominal Min
Attenuation Flatness:.....	0 – 10 dB..... 0.4 dB Peak-Peak Max
.....	>10 – 20 dB ..... 0.6 dB Peak-Peak Max
.....	>20 – 30 dB ..... 0.8 dB Peak-Peak Max
Control Function: .....	8 Bit Positive Binary TTL (LSB = 0.125dB, MSB = 16dB)
Transfer Function Accuracy:.....	0 – 30 dB..... ±0.5 dB Max
VSWR (all settings): .....	1.5:1 Max
Settling Time (“±1dB of Target Setting”):.....	25µs Max (50µs<PW<0.1S)
Power Handling: .....	Operating ..... +14 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
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:**

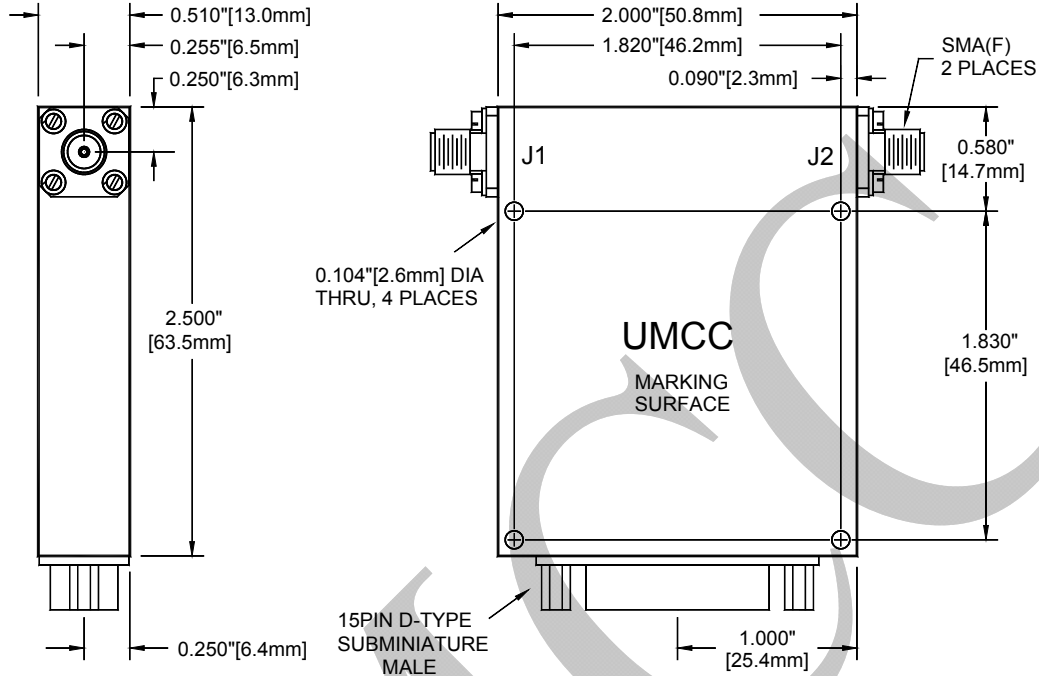
(Units with listed options here may be subject to some specification tradeoffs from the standard, consult factory)

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| <ul style="list-style-type: none"> <li>■ RF Connectors</li> <li style="padding-left: 20px;">B1 [ J1 SMA (male) ]</li> <li style="padding-left: 20px;">B2 [ All SMA (male) ]</li> <li>■ Transfer Functions</li> <li style="padding-left: 20px;">F3 [ Inverse Logic (“00...00” = Max Attenuation) ]</li> </ul> | <ul style="list-style-type: none"> <li>■ Control Function Resolution</li> <li style="padding-left: 20px;">R1 [ LSB = 0.1 dB &lt;&gt; 9-Bits &lt;&gt; “decimal steps” ]</li> <li style="padding-left: 20px;">E2 [ LSB = 1/16 dB &lt;&gt; 9-Bits &lt;&gt; “fractional steps” ]</li> <li style="padding-left: 20px;">R2 [ LSB = 0.05 dB &lt;&gt; 10-Bits &lt;&gt; “decimal steps” ]</li> <li style="padding-left: 20px;">E3 [ LSB = 1/32 dB &lt;&gt; 10-Bits &lt;&gt; “fractional steps” ]</li> <li style="padding-left: 20px;">E4 [ LSB = 1/64 dB &lt;&gt; 11-Bits &lt;&gt; “fractional steps” ]</li> </ul> |
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**Outline**



Weight	Tolerances
3.2 oz [90.7g]	±0.015" [±0.38mm]

**Pin-Out Function**

PIN	Function
1	N/C
2	N/C
3	N/C
4	N/C
5	0.125 dB
6	0.25 dB
7	0.5 dB
8	1.0 dB
9	2.0 dB
10	4.0 dB
11	8.0 dB
12	16.0 dB
13	+VDC
14	N/C
15	GND (Chassis & Digital)

