



Model: AG-T000-60D

Description: Digital Controlled PIN Attenuator
Operating Frequency: 1 - 18 GHz
Insertion Loss (0dB Attn. Ref.): 5.7 dB Max
Attenuation Range: 0 - 60 dB Nominal
Attenuation Flatness:

Table with 7 columns: Attenuation (dB) and Flatness(dB) Peak-Peak Max for values ≤ 10, ≤ 20, ≤ 30, ≤ 40, ≤ 50, ≤ 60.

Control Function: 8 Bit Positive Binary TTL (LSB = 0.25dB, MSB = 32dB)
Transfer Function Accuracy: 0 - 30 dB ±0.5 dB Max, >30 - 60 dB ±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)

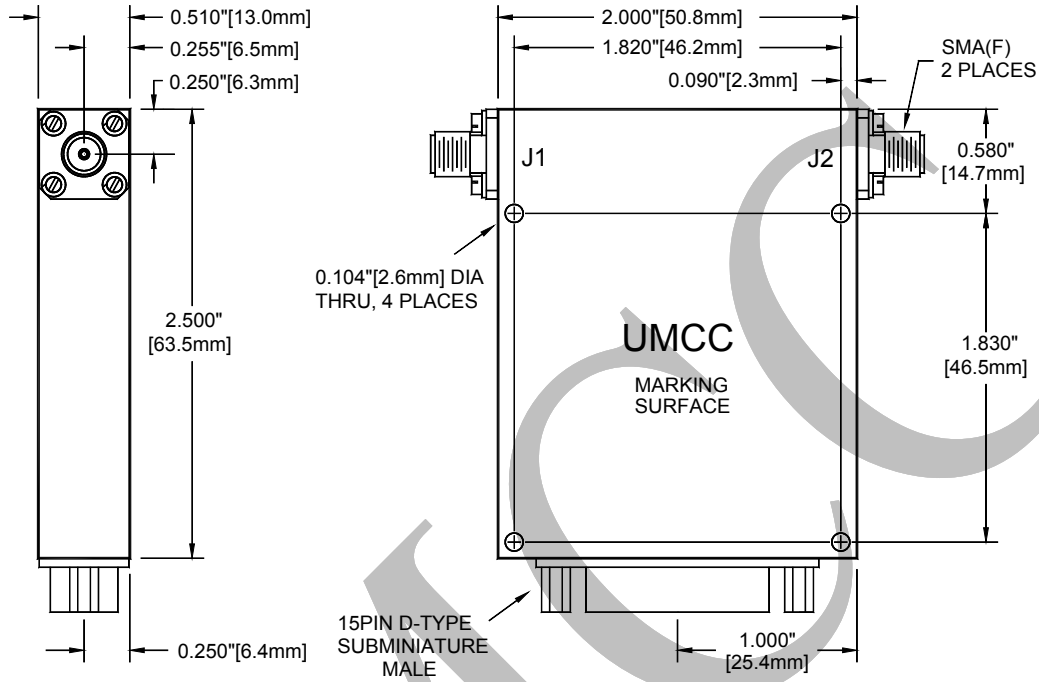
Control Function Resolution

- 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



| 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 | 0.25 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) |

