



Model: AG-P000-60D

Description:..... Digital Controlled PIN Attenuator
 Operating Frequency:..... 2 – 20 GHz
 Insertion Loss (0dB Attn. Ref.):..... 7.8 dB Max
 Attenuation Range:..... 0 - 60 dB Nominal
 Attenuation Flatness:

| | | | | | | |
|--------------------------------|------|------|------|------|------|------|
| Attenuation (dB): | ≤ 10 | ≤ 20 | ≤ 30 | ≤ 40 | ≤ 50 | ≤ 60 |
| Flatness(dB): Peak-Peak Max | 1.8 | 1.8 | 2.8 | 3.6 | 4.4 | 5.2 |

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):..... 2:1 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:

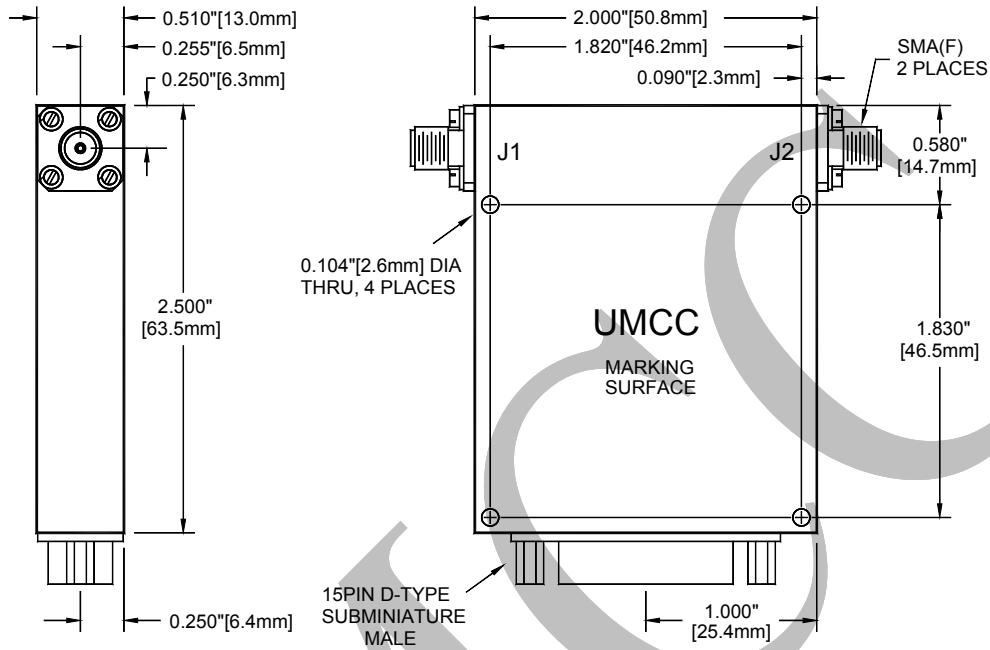
(Units with listed options here may be subject to some specification tradeoffs from the standard, consult factory)

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|--|--|
| <ul style="list-style-type: none"> ■ RF Connectors <ul style="list-style-type: none"> B1 [J1 SMA (male)] B2 [All SMA (male)] ■ Transfer Functions <ul style="list-style-type: none"> F3 [Inverse Logic (“00...00” = Max Attenuation)] | <ul style="list-style-type: none"> ■ Control Function Resolution <ul style="list-style-type: none"> 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) |

