



Model: AT-N000-HV

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|---|---------------------------------------|
| Description: | Voltage Controlled PIN Attenuator |
| Operating Frequency: | 8 - 18 GHz |
| Insertion Loss (0dB Attn. Ref.): | 3.3 dB Max |
| Attenuation Range: | 0 - 60dB Nominal Min |
| Attenuation Flatness: | 2.2 dB PK-PK up to 10 dB |
| | 3.2 dB PK-PK up to 20 dB |
| | 4.2 dB PK-PK up to 50 dB |
| | 4.8 dB PK-PK up to 60 dB |
| Control Function: | 0-6 V, 10dB/Volt, (Impedance = 5~10K) |
| Transfer Function Accuracy: | 0 - 0.8 dB ±50% Max |
| | > 0.8 - 10 dB ±0.40 dB Max |
| | > 10 - 30 dB ±0.50 dB Max |
| | > 30 - 50 dB ±0.90 dB Max |
| | > 50 - 60 dB ±1.20 dB Max |
| VSWR (all settings): | 1.9:1 Max |
| Settling Time ("±1dB of Target Setting"): | 500 ns Max, (5µs<PW<0.1s) |
| Power Handling: | Operating +20 dBm CW/Peak Max |
| | Survival +30 dBm CW/AVG Max |
| Connectors (RF): | SMA (f), Removable |
| Connector (Supply & Controls): | Solder Pins |
| Temperature Coefficient (Over Operating Temperature): | ±0.025dB/°C Max |
| Power Supply (internally regulated): | +12 to +15vdc @ 60mA Max |
| | -12 to -15vdc @ 60mA Max |
| Impedance: | 50 Ohms Nominal |
| Quality: | Best-Commercial-Grade |

Environmental Ratings:

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|--------------|--|
| 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/Volt]
 - F3 [Reverse Control Voltage (0V = Max Attenuation)]
- Attenuation Range
 - G1 [30dB Range / Slope = 5dB / Volt]



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Outline

("A" = 0.214" [5.4mm] <> Tolerances: ± 0.015 " [0.38mm] <> Weight = 2.2 oz [62.4g])

