



**Model: AE-A000-40V**

Description:.....	Voltage Controlled PIN Attenuator
Operating Frequency:.....	160 - 500 MHz
Phase-Invariant Frequency Region (<±10 Deg)..	260-500 MHz
Insertion Loss (0dB Attn. Ref.): .....	1.8 dB Max
Attenuation Range:.....	0 – 40 dB Nominal Min
Attenuation Flatness:.....	0.9 dB Peak-Peak ..... up to 10 dB
.....	1.3 dB Peak-Peak ..... up to 20 dB
.....	1.5 dB Peak-Peak ..... up to 40 dB
Control Function: .....	0 – 4 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 - 40 dB ..... ±0.90 dB Max
VSWR (all settings): .....	1.5:1 Max
Settling Time ("±1dB of Target Setting"):.....	1µs Max, (10µs<PW<0.1s)
Power Handling: .....	Operating..... +10 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).....	±0.025 dB/°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:**

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) ]

