



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 $\pm 50\%$ 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):	1.6:1 Max
Settling Time (“ ± 1 dB of Target Setting”):	1 μ s Max, (10 μ s<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 -20°C to +75°C):	± 0.025 dB/°C Max
Power Supply (internally regulated):	+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)]
- Transfer Functions
 - F1 [Slope = 5dB/Volt]
 - F3 [Reverse Control Voltage (0V = Max Attenuation)]



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Outline

(Tolerances: $\pm 0.015"$ [0.38mm])

