



VCA 505 UNIVERSAL VCA CARD

- CLASS 'A' CIRCUITRY
- MULTIPLE CONTROL INPUTS
- SELF CONTAINED-NO EXTERNAL CIRCUITRY NEEDED
- CARD EDGE MOUNTING

The VCA 505 from Aphex Audio is an expanded version of the acclaimed 1537A Voltage Controlled Attenuator. It is a 15-pin card edge mount package for ease of application*, and has multiple buffered control inputs for maximum versatility. It is truly a universal VCA building block, requiring no additional circuitry.

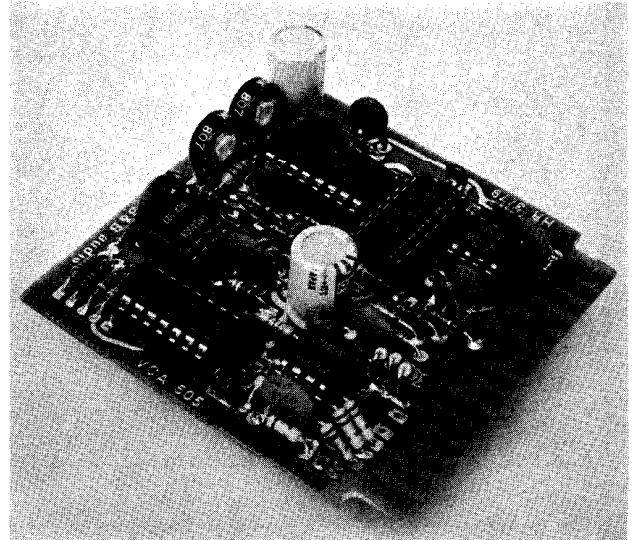
The VCA 505 inherits the 1537A's incredible performance. T.H.D., I.M.D. and modulation noise have been reduced to theoretical limits, resulting in a clean, clear sound indistinguishable from no VCA at all. This performance is the result of patented class 'A' circuits in the VCA 505 which eliminate the coloration and distortion older VCAs have come to be known for.

The 505 was also designed with an eye to the future. Although we use the best sounding op-amps possible, they are all on sockets, so they may be easily user updated as newer devices become available. The sockets also aid service-ability.

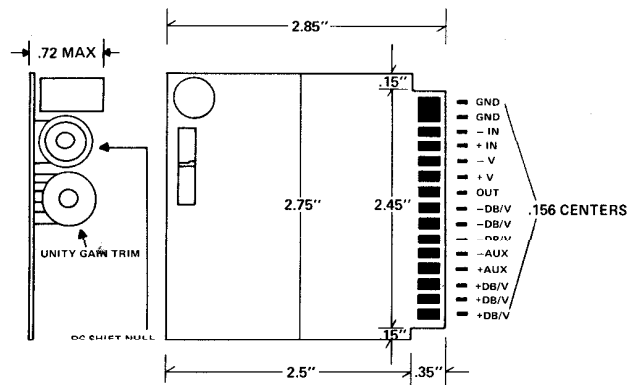
The multiple control inputs (for channel, group and master control summing) give + or -20dB/V attenuation, and user defineable pads are provided if other scaling is needed. There are only two final adjustments, D.C. shift and unity gain trim (to compensate for varying power supplies).

Whatever your audio application, the VCA 505 will fill your needs, providing the highest sonic quality and greatest ease of application.

*The 505 will retrofit Allison VCA - 3, 4, 5 & 5A in applications not requiring gain. If gain is needed, consult factory.



U. S. PATENT 4,165,047 FOREIGN PATENTS PENDING



DIMENSIONS & PIN CONFIGURATION



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ELECTRICAL SPECIFICATIONS

SPECS (505)

Bandwidth	DC to 200 kHz \pm 0.1 dB
T.H.D., 20 Hz - 20 kHz	.01% ¹
I.M.D. - (S.M.P.T.E.)	.03% ²
Noise	< -90 dBm ³
Modulation Noise	6.5 dB
Overshoot & Ringing	None
Slew Rate	> 10V/ μ Sec
Input impedance	20 k Ω
Maximum input level	+20 dBV
Gain	0 dB (Unity) ⁴
Maximum Attenuation	> 100 dB, 20 Hz - 20 kHz
Control Impedance	100 k Ω
Control Characteristic	+ or - 20 dB/V, \pm 0.2 dB ⁵
DC Shift vs. Attenuation	< 5mV
Power Requirements	\pm 15.0 Volts
Size	2.75" Wide x 2.85" Deep x .72" High
Termination	Standard 15 Pin Card Edge Connector, .156" Centers

¹At + 10dBv input, any attenuation level

²At + 10dBv input, 0dBv output (typical studio fader placement)

³Attenuates to >-100dBv

⁴For applications requiring gain, consult factory

⁵Plus 2 user defineable summing points