

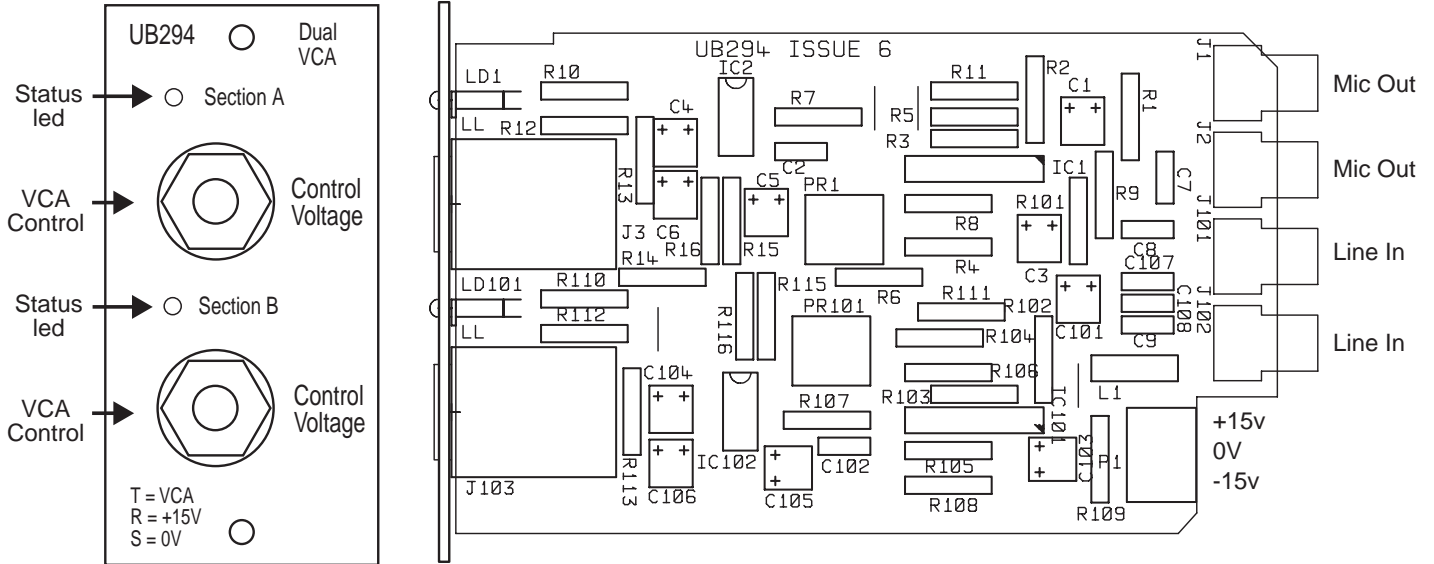
UB294 Dual Voltage Controlled Attenuator Module

Section A and B each consist of a low-distortion VCA and control circuitry for remote signal control applications.

Control voltage inputs to the VCAs are via two front panel TRS (Stereo) jacks, These jacks also provide a positive voltage for the controlling device such as a potentiometer or opto isolator. The brightness of the front panels leds varies in relation to the control voltage.

Inputs and outputs are unbalanced and operate at line level.

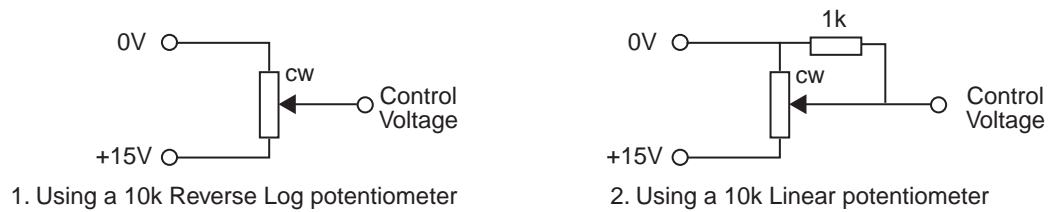
CONNECTIONS AND CONTROLS



The UB294 is designed to be used with an external control voltage. The following diagrams show examples of Remote Volume control.

Pin assignment for Control ports

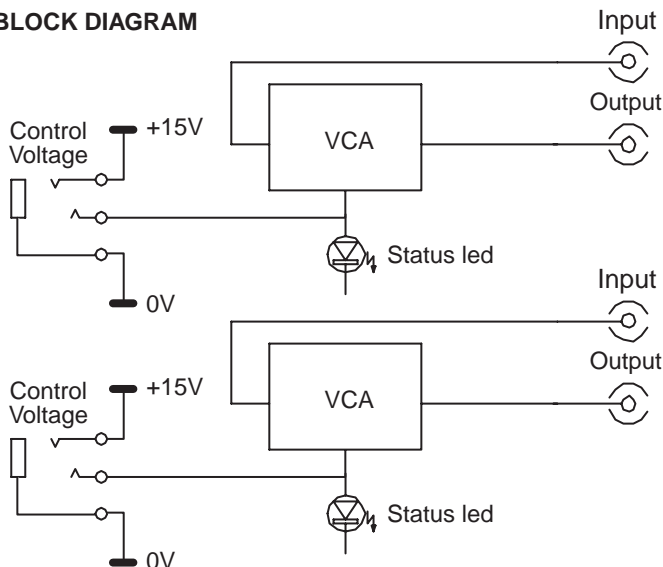
Tip = VCA control input
Ring = +15V output
Sleeve = 0V



Please note that unless you are using the same supply as the UB module you will need to connect 0V of the control potentiometer to 0V of the Control Voltage connector.

Both these suggested circuits allow attenuation to -100dB. This can be changed by adding a resistor in series with the wiper of the control pot e.g. a 33k resistor limits the maximum attenuation to -30dB.

BLOCK DIAGRAM



SPECIFICATIONS

VCA SECTION

Frequency response	+0, -0.5dB, 20Hz to 20kHz
Input impedance	7k5 unbalanced
Output impedance	1k unbalanced
Input level	-7dBu nominal +18dBu maximum
Output level	+18dBu maximum
Gain control range	0dB to -100dB
Signal to noise ratio	>80dB
Distortion	0.02%
Control voltage	10dB/V

POWER SUPPLY +/-15V @ 30mA



In keeping with our policy of continuous improvement LA Audio reserves the right to alter specifications without prior notice. Manufactured in the UK by LA Audio, 6-24 Southgate Road, London, N1 3JJ.

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