

# ES78 Voltage Controlled Amplifier

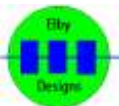


## ES78 Voltage Controlled Amplifier

### Construction Guide

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# ES78 Voltage Controlled Amplifier

Construction of the ES78 requires the assembly of 1 board:-

Column 1 - ES78 PCB ([3D Model](#))

Constructors should refer to the printed Component Overlay for any specific comments regarding the board assemblies, the Bill of Materials for the current value of all components and [General Construction Notes](#) for general pcb assembly guidelines. You are advised to check all of these documents on our website to ensure you have the latest copy.

1. Assemble all components except J102, J202, J203.
2. Assemble the 3x Carrier Boards with their respective jacks ([3D Model](#))
3. Place the assembled carrier boards on to their respective headers but do not solder.
4. Offer the assembly up to the front panel guiding the 3 carrier board assemblies in to place.
5. Secure all components using the supplied nuts and then solder the carrier board assemblies in to place.

That completes assembly of the ES78 module.

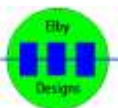
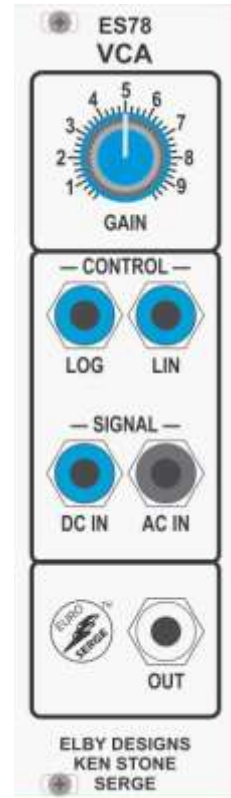
## Calibration

Equipment required:

- 500Hz 5VDC p-p sawtooth waveform
- +3VDC voltage source

Calibration procedure:

1. Set [GAIN] to maximum
2. Set P101 to its mid-point
3. Set P201 fully counter-clockwise
4. Connect +3VDC to [LOG] and [DC IN]
5. Adjust P103 until +6VDC is measured at [OUT]
6. Disconnect +3VDC from [LOG]
7. Adjust P101 until +3VDC is measured at [OUT]
8. Repeat steps (4) to (7) for best results
9. Disconnect +3VDC from [DC IN]
10. Connect sawtooth to [LIN]
11. Adjust P201 for minimum amplitude at [OUT]



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