Dual Voltage Controlled Amplifier

Operation

This module is a dual voltage controlled amplifier, which can be configured either for linear or exponential response. The two VCAs are labelled as A and B.

Knobs

- **Gain$_{\mathbf{A,B}}$**: controls the initial gain.
- **CV$_{\mathbf{A,B}}$**: attenuates the **CV$_{\mathbf{A,B}}$** inputs.

Inputs

- **In$_{\mathbf{A,B}}$** : VCA signal inputs.
- **CV$_{\mathbf{A,B}}$** : VCA control voltage inputs. For a 0 V input, no signal passes through. For a 5 V input, the VCA reaches maximum (unity) gain, if the **CV$_{\mathbf{A,B}}$** knob is turned all the way to the right.

Outputs

- **In$_{\mathbf{A,B}}$** : VCA signal outputs.

Configuration

Jumpers

- **JP1:** this controls whether VCA A has a linear (default position) or exponential response.
- **JP2:** this controls whether VCA B has a linear (default position) or exponential response.

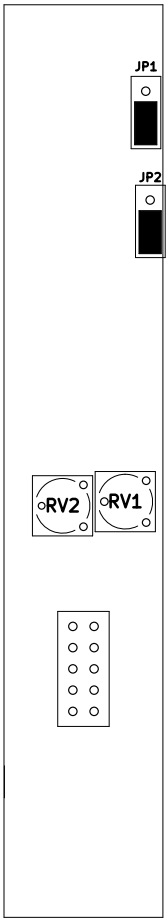

Figure 1: Jumper (in their default position) and trimmer location

Trimmers

- **RV1:** this trimmer nulls out the DC offset on $\mathbf{Out_A}$
- **RV2:** this trimmer nulls out the DC offset on $\mathbf{Out_B}$

Warnings

- Do not apply power to the module with reverse polarity. Follow the markings on the board's silkscren to know which way is -12V.
- Do not patch two outputs together, neither within this module nor between this and other module.
- Do not apply voltages beyond the supply rails (± 12V) to any inputs.