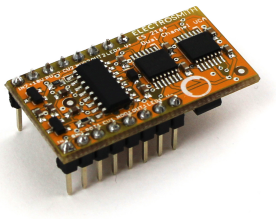
Electrosmith 2164 Submodule



Contents

ES 2164

Voltage Controlled Amplifier

Electrical Characteristics

The board is designed for:

V+ = +12V

V- = -12V

Pin Descriptions

1. In 1

Signal Input.

DC-Coupled.

2. GND

Ground Connection

3. Pot 1

Controls the amplitude of channel 1

Connect wiper of a potentiometer to this connection.

Wire pot between GND and +10V.

No Passives necessary.

4. CV 1

Controls the amplitude of channel 1

Adds to the current pot position.

Expects a range of -10V to +10V.

5. Node 1

Summing Node connection for additional control signals.

Input Impedance for equivalent Pot/CV input connection: 100K.

6. Out 1

Signal Output.

Gain is between -infinity and x2.

7. LED 1

Dedicated LED output.

Buffered separate from output.

8. Vee

Negative Supply Input.

Designed for -12V.

9. Vcc

Positive Supply Input.

Designed for +12V.

10. LED 2

Dedicated LED output.

Buffered separate from output.

11. Out 2

Signal Output.

Gain is between -infinity and x2.

12. Node 2

Summing Node connection for additional control signals.

Input Impedance for equivalent Pot/CV input connection: 100K.

13. CV 2

Controls the amplitude of channel 2

Adds to the current pot position.

Expects a range of -10V to +10V.

14. Pot 2

Controls the amplitude of channel 2

Connect wiper of a potentiometer to this connection.

Wire pot between GND and +10V.

No Passives necessary.

15. +10V reference

+10V Reference Voltage

maximum 15mA current consumption

16. In 2

Signal Input.

DC-Coupled.

Example Schematic