

The Q118 module provides an interface for external input sources such as a guitar, microphone, etc. The incoming signal can be amplified up to 1000 times. An envelope output is created that will track the amplitude of the incoming signal. This envelope can be used to control filters, oscillators, and other modules. A gate signal is created based on a manual threshold control which can be used to trigger envelope generators or sequencers. An LED indicates gate signal output to aid threshold adjustment. A short trigger pulse is also provided. An output jack provides access to the amplified original signal for use by other modules.

Specifications

- Panel Size:** Single width 2.125"w x 8.75"h.
- Input Signal Level:** 10mv to 10V PP
- Amp Output Level:** 20V PP maximum
- Gate Output Level:** 0-5V active high
- Trigger Output Level:** 0-5V active high, 20ms
- Envelope Output Level:** 0-5V maximum
- Power:** +15V@8ma, -15V@8ma, +5@8ma.



Controls and Connectors

- Amplifier Multiplier Switch**
Sets the initial amplification multiplier.
- Amplifier Control**
Adjusts the amplification depending on the multiplier switch.
- Threshold Control**
Sets the level at which a gate signal will be created.
- Input Jack**
Signal to be processed.
- Amplifier Output Connector**
Amplified signal.
- Envelope Output Connector**
Envelope that follows the input waveform amplitude.
- Gate Output Connector**
+5 volt gate signal set by threshold adjustment.
- Gate LED**
Indicates gate output status to aid in threshold adjustment.
- Trigger Output Connector**
Short trigger pulse at beginning of gate signal.

Waveforms



