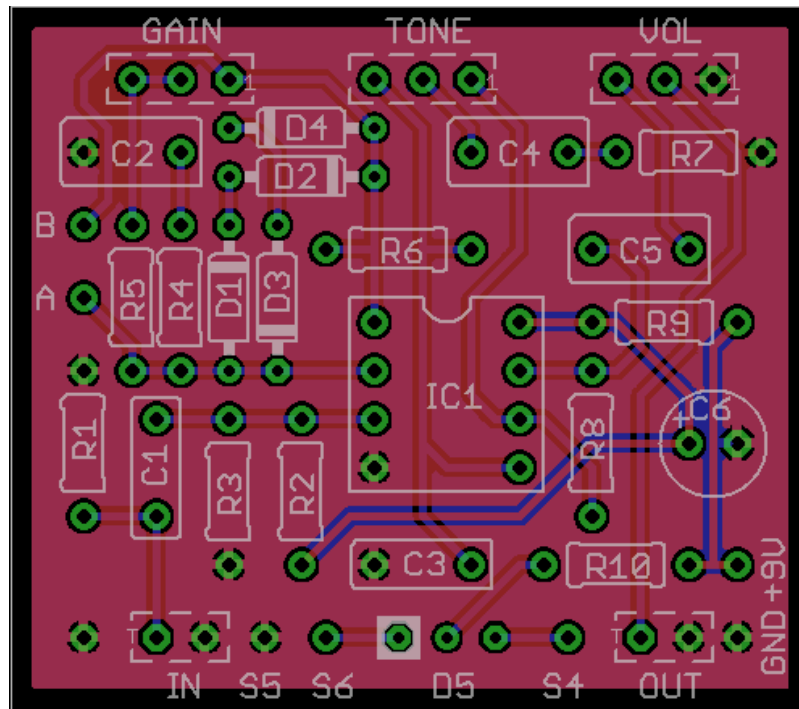


# AEON OVERDRIVE v2

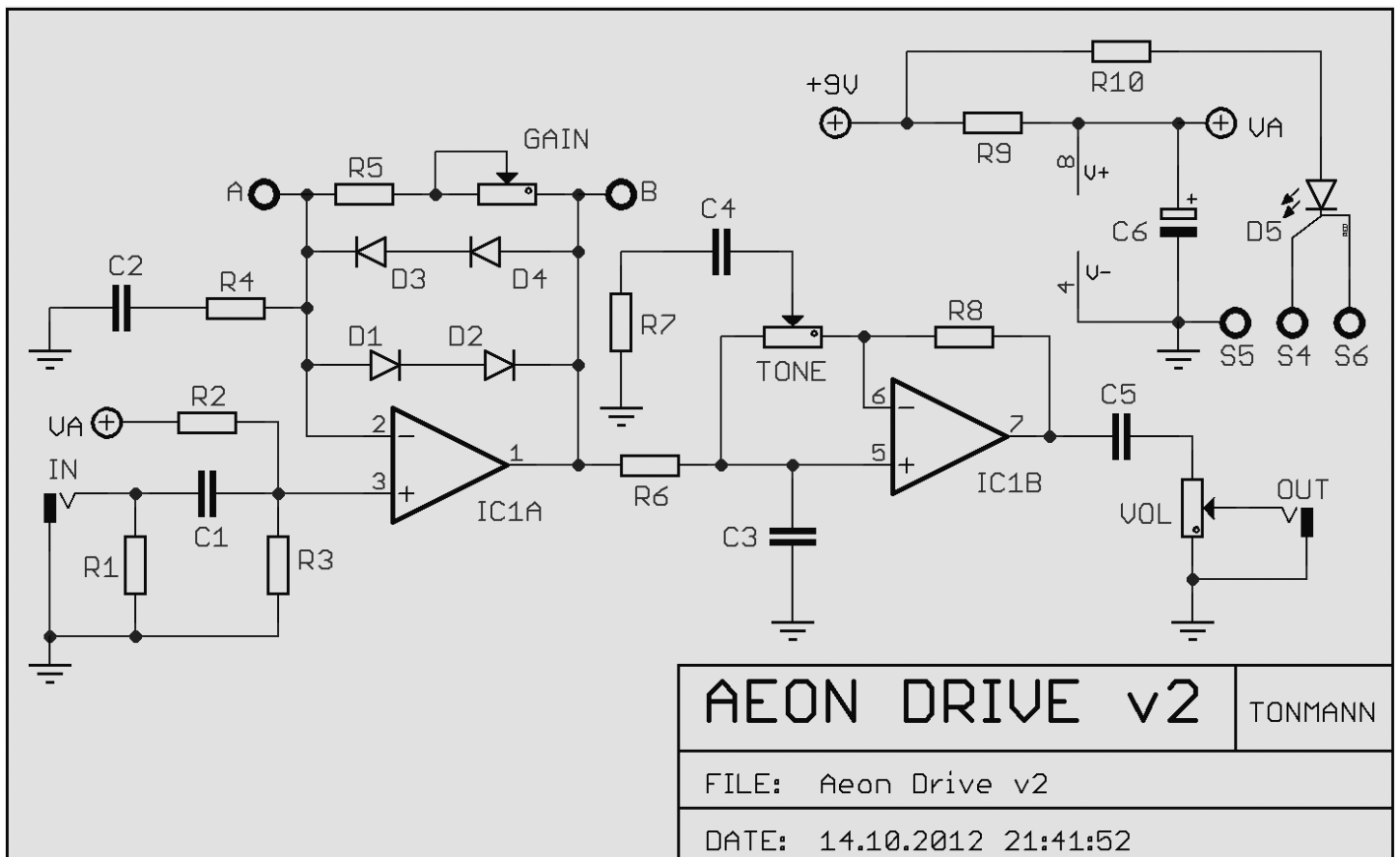
Board Dimensions (W x H) 1.65" x 1.45" ca. 41.9 mm x 36.8mm



The above image can be downloaded from

<http://i647.photobucket.com/albums/uu198/tonmann/GuitarPCB%20Boards/AeonDrivev2Layout.png>

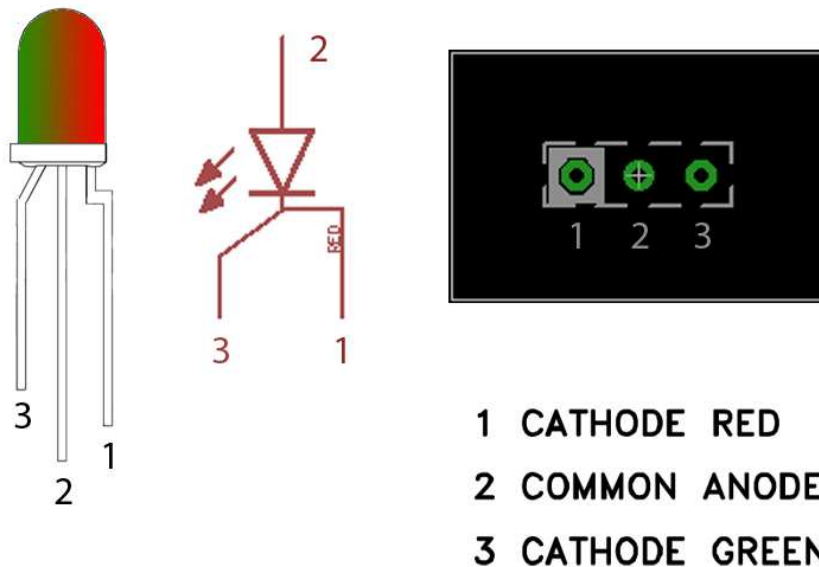
Printing at 300dpi will assist you in your enclosure layout.



R1	1M	C1	47n	63v	D1 - D4	1N914
R2	1M	C2	220n	63v		
R3	1M	C3	150n	63v	D5	CA Bi-colour LED
R4	1k	C4	220n	63v		
R5	10k	C5	220n	63v	GAIN	500k Lin
R6	1k	C6	47μ	16V	TONE	5k Lin
R7	330R				VOL	100k Log
R8	1k	IC1	JRC 4558			
R9	330R					
R10	3k3					

## STATUS LED

D5 is a common anode bi-colour LED



The diagram above shows the pin-out, schematic symbol and pad connection for a common anode LED.

The pin-out for the bi-colour LED is as follows:

1<sup>st</sup> Colour Cathode 90 degree bend in the lead  
Common Anode Middle lead  
2<sup>nd</sup> Colour Cathode 45 degree bend in the lead

The pad for lead 1 on the circuit board is marked with a white box.

When connected correctly the LED will light red when power is applied and the circuit is in bypass mode. The LED will light green when in effects mode.

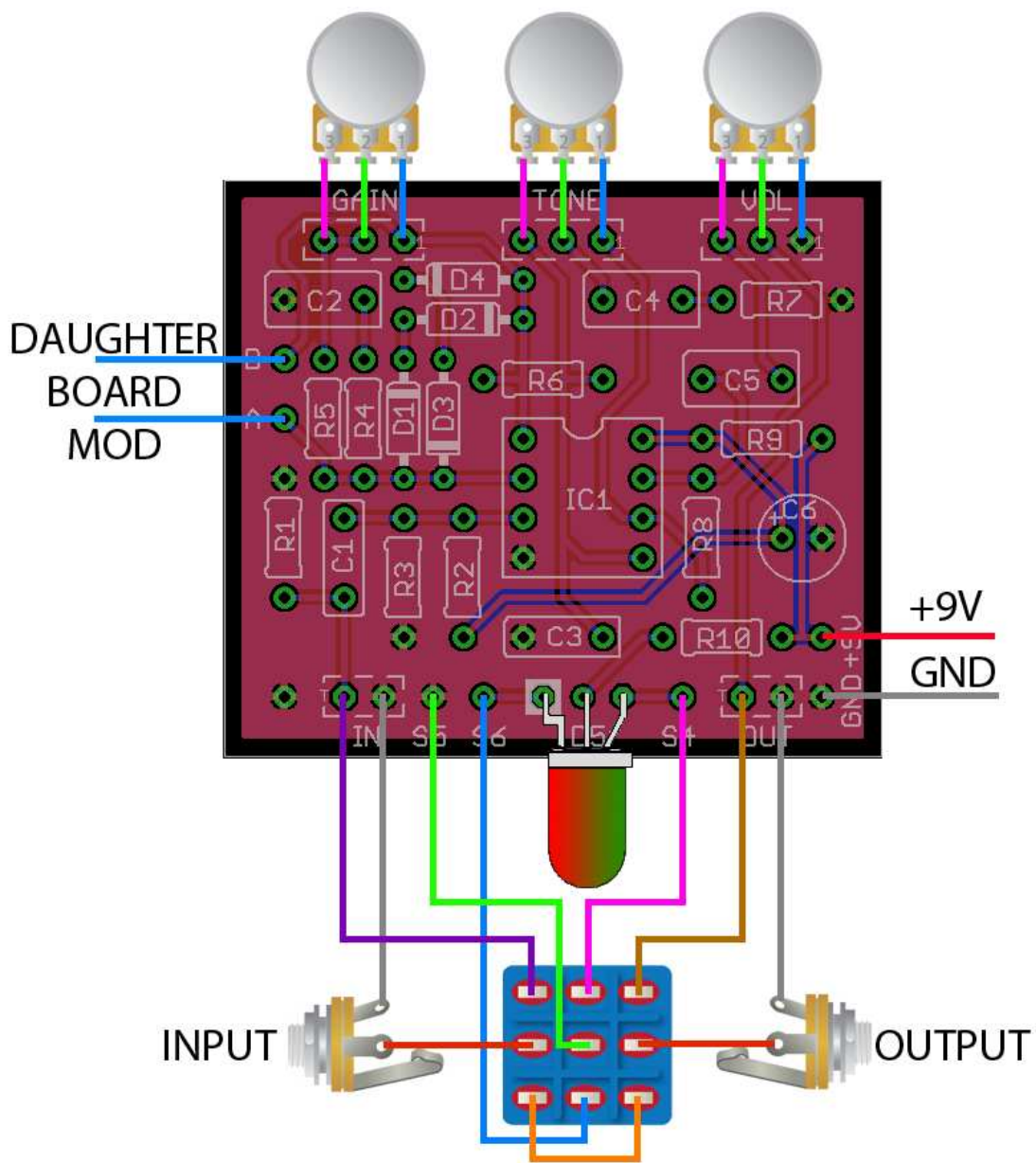
If you wish to use a standard LED, connect the anode to the middle pad and the cathode to the right pad to show the circuit in effects mode.

## MODIFICATIONS

**Op amp** – the original called for an “Unknown JRC” so, at a good guess it’s a mojo JRC4558. There are plenty of pin-compatible replacements that would fit in here- TL072, NE5532, NE4558 etc. If you use a socket, you can try different op amps. If you are in doubt, ask on the forums at [www.guitarpcb.com](http://www.guitarpcb.com) for help.

**Diodes** – the 1N914 (1N4148 will do as well) can be modified to your taste e.g. LED, germanium or combinations of both. Ideas can be found on the [www.guitarpcb.com](http://www.guitarpcb.com) forum. To make wiring easier pads A and B have been added to the circuit board, diodes D1 – D4, along with any switching arrangement, would be installed on a daughter board which would then be connected to pads A and B.

## WIRING



If you are using one of GuitarPCB's 3PDT Wiring Boards, pads S4, S5, S6 and D5 would be ignored and R10 would not be installed.