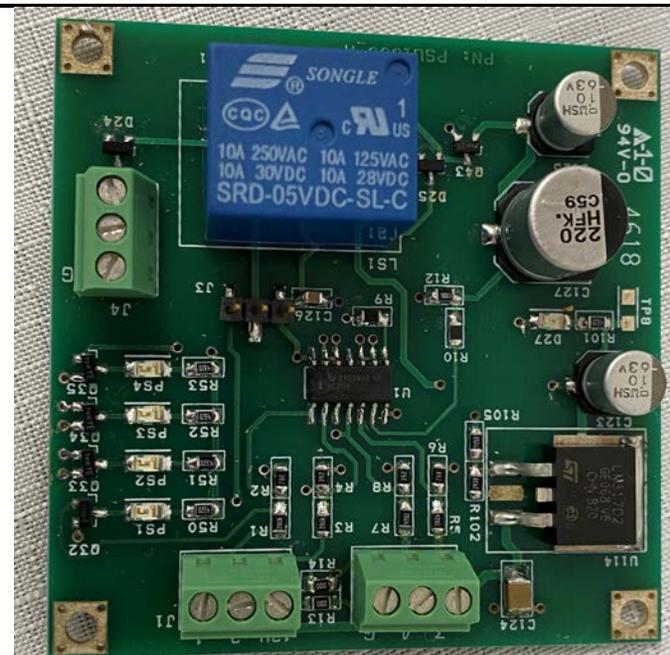


## Model: PSU1000: DC power supply protection / control circuit

This circuit is designed to shut down up to 4 power supplies in a high-power amplifier system.

- 12V or 5V control outputs
- 12 supply
- 2.5L x 2.5W x 0.68H inches
- Control up to 4 power supplies.

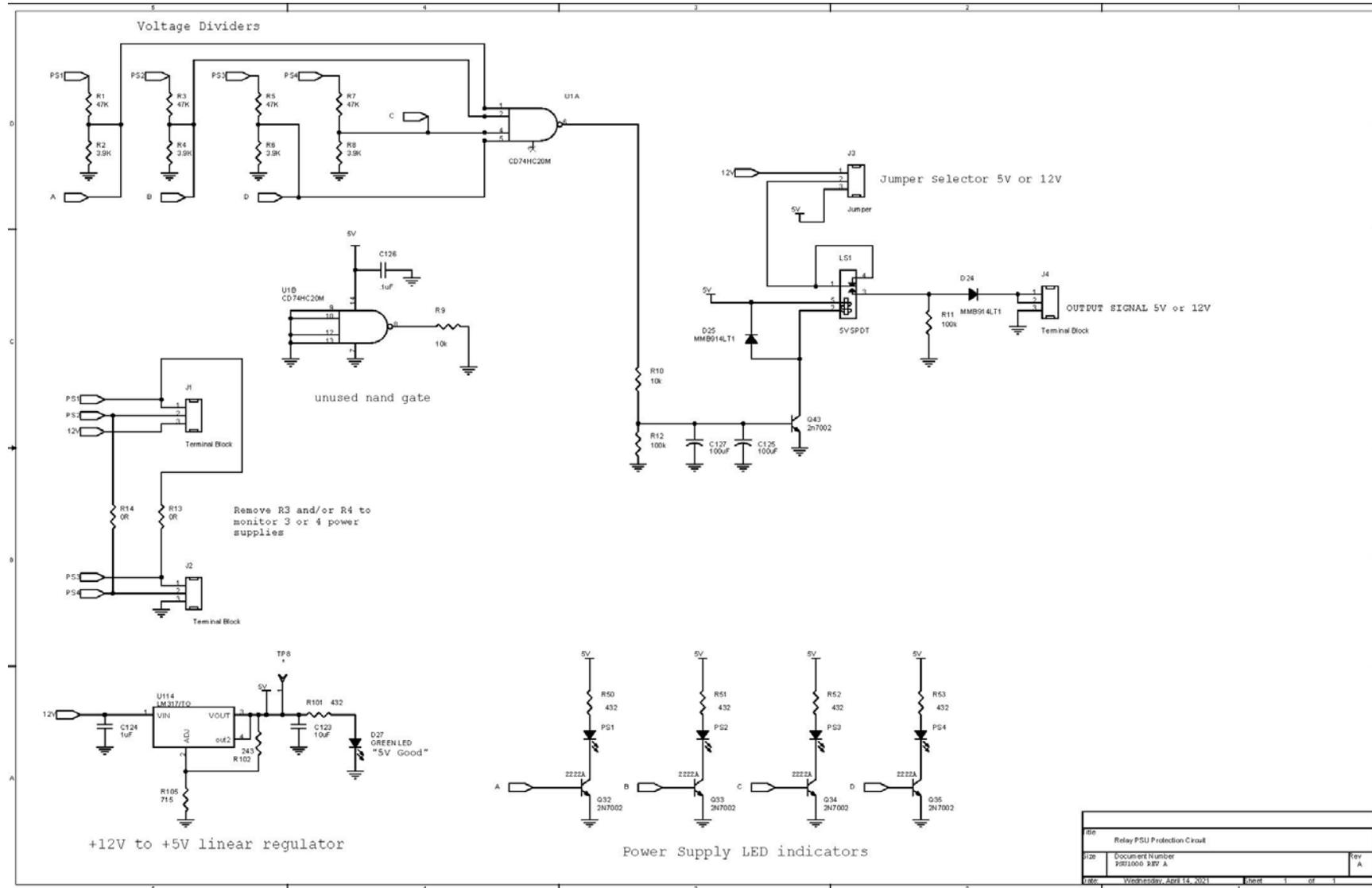
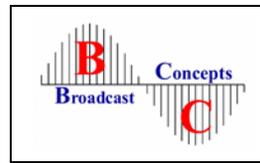


Dimension (L x W x H inch) [2.5" x 2.5" x 0.68"]

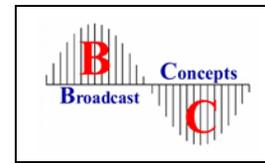
Theory of operation: This circuit is designed to shut down power supplies in a high-power amplifier to prevent damage to RF components in the output circuitry. In a high-power RF amplifier multiple power supplies are often required. If 1 supply fails and the others continue to operate then costly damage to the output circuits is likely. Power glitches on the AC line can often cause a power supply to shut down.

This board should be operated with a dedicated 12V power supply. Maximum input voltage is 15V.

The voltage dividers are configured to monitor 50V supplies; however, the circuit can also monitor 28V supplies. (contact us if you are working in a 28V system as the voltage divider values need to be changed)



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J1 and J2 are the monitored inputs. The 50V output from your power supplies connects here. The product ships with 0-ohm resistors R13 and R14 installed. If 3 or 4 supplies need to be monitored, then these resistors need to be removed. Please contact us if you would like us to remove these resistors for you.

J4 is the output signal. Jumper J3 can be used to output 5 or 12V when there is a fault condition. During the normal working condition the output voltage is 0.

The input voltage is printed in white “12V” on terminal block J1. (Schematic shows J1 pin 3)

If only 2 power supplies need to be monitored use terminal block J2 position 3 and J1 position 1. These inputs are printed on the PCB in white numbers. (J2 position 3 is labeled pin J1 in schematic)