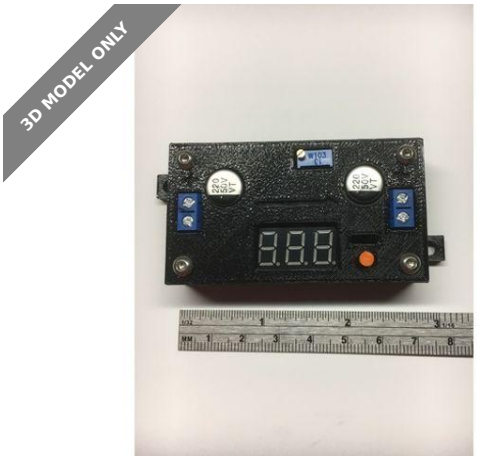
Printables by JOSEF PRUSA



DROK LM2596-SDC LED 1-Button 66x35mm BUCK CONVERTER CASE ENCLOSURE

P PRAXXUS

VIEW IN BROWSER

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Summary

There are many Buck Converter enclosures posted here, and none would fit what I thought was a common 1-button LED Buck...

3D Printers > 3D Printers - Upgrades

There are many Buck Converter enclosures posted here, and none would fit what I thought was a common 1-button LED Buck Converter (66mm x35mm), which I bought on amazon. (https://www.amazon.ca/gp/product/B00JUFJ1GA/ref=ppx_yo_dt_b_asin_title_o00_s00?ie=UTF8&psc=1).

So I made my own. I wanted an extremely low profile design, that shows-off the capacitors and gives easy access to the wire connector ports and voltage regulator pot as well as a functional push button and openings to see the LED digits and LED lights above the button on the main board. Engraved on the top cover is a voltage direction arrow identifying voltage IN and OUT direction as well as "+" above the corresponding connectors.

The design was intended to fit the 4040 bar on the Ender3, therefore the finished outside dimensions are ~ 40mm x 70mm x 15mm with two offset connectors that fit in with t-nuts. I kept the underside flat so that you can also use double sided tape to fix it on to other areas.

It uses 4x M3x14mm screws to secure the top to the bottom as well as hold the board in place. These are tight fit tolerances to keep things compact and low profile.

I'm happy with the design and works as intended.

Print instructions

I printed this on my PRUSA i3 MK3s using PrusaSlicer

0.2mm Quality
15% infill
PETG at 235C/85C (Hotend/Bed)

No supports required.

Model files

top-drok_lm2596-sdc_led_1-button_66x35.stl

bottom-drok_lm2596-sdc_led_1-button_66x35.stl

push_button-drok_lm2596-sdc_led_1-button_66x352.stl

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