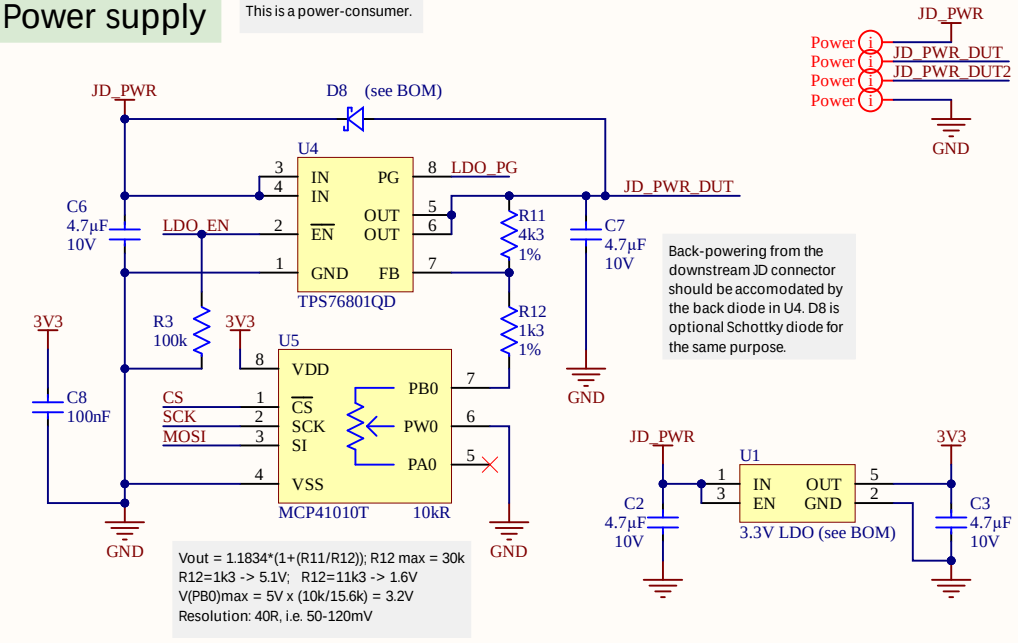
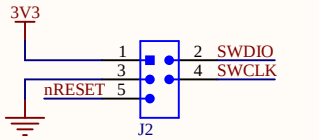
Power supply

This is a power-consumer.



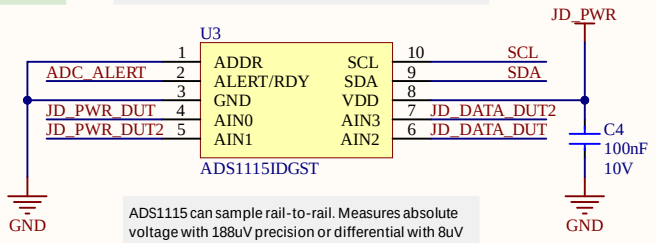
Program/debug



"Hack-connect" SWD adapter.
https://arcade.makecode.com/hardware/dbg

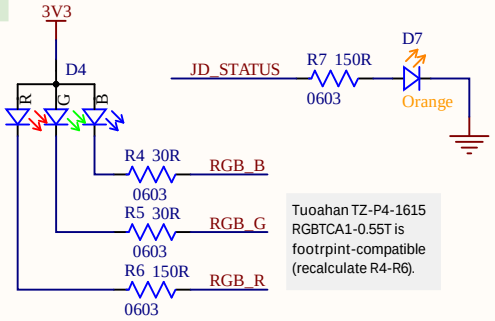
ADC

I2C address:
GND 1001000; VDD 1001001; SDA 1001010; SCL 1001011



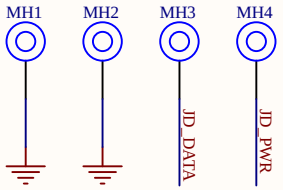
ADS1115 can sample rail-to-rail. Measures absolute voltage with 188uV precision or differential with 8uV precision; 200mΩ shunt res gives 40uA precision.

LEDs

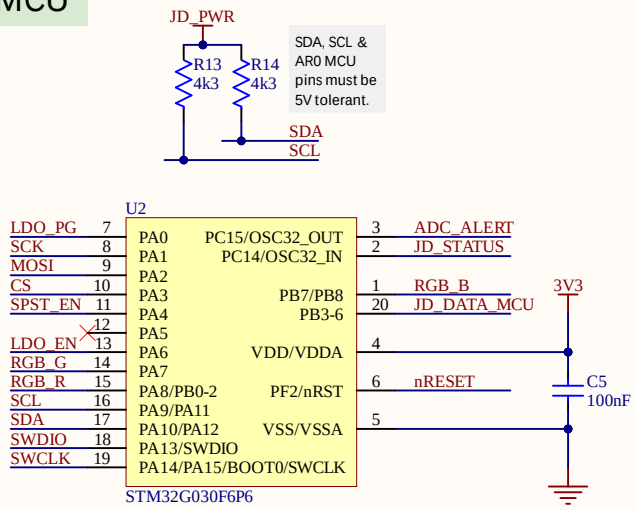


Tuoahan TZ-P4-1615 RGBTCA1-0.55T is footrpint-compatible (recalculate R4-R6).

Mounting holes

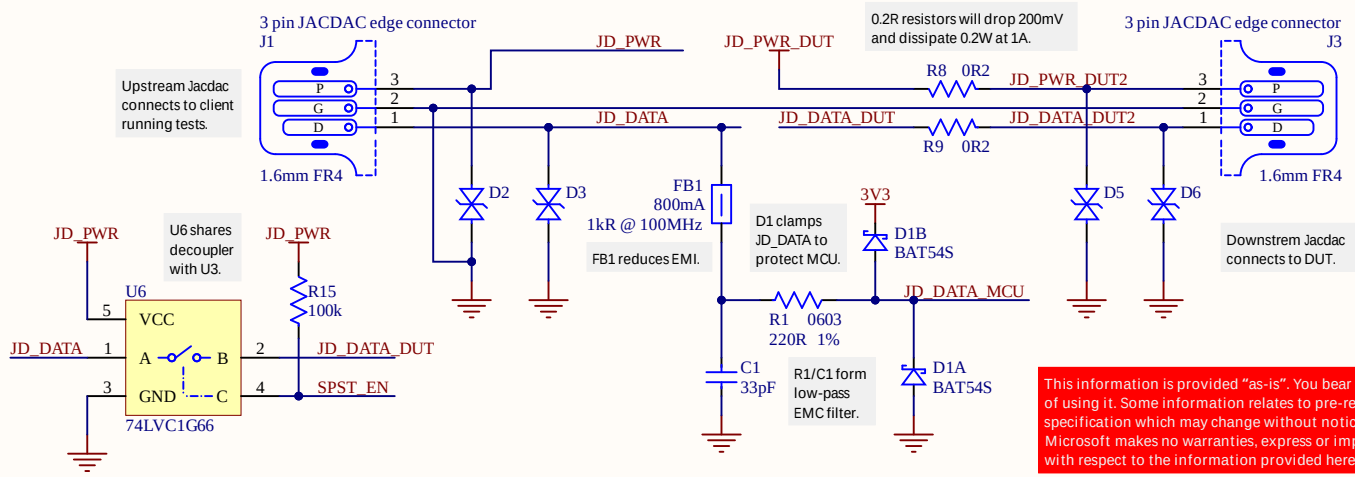


MCU



SDA, SCL & AR0 MCU pins must be 5V tolerant.

Jacdac connector



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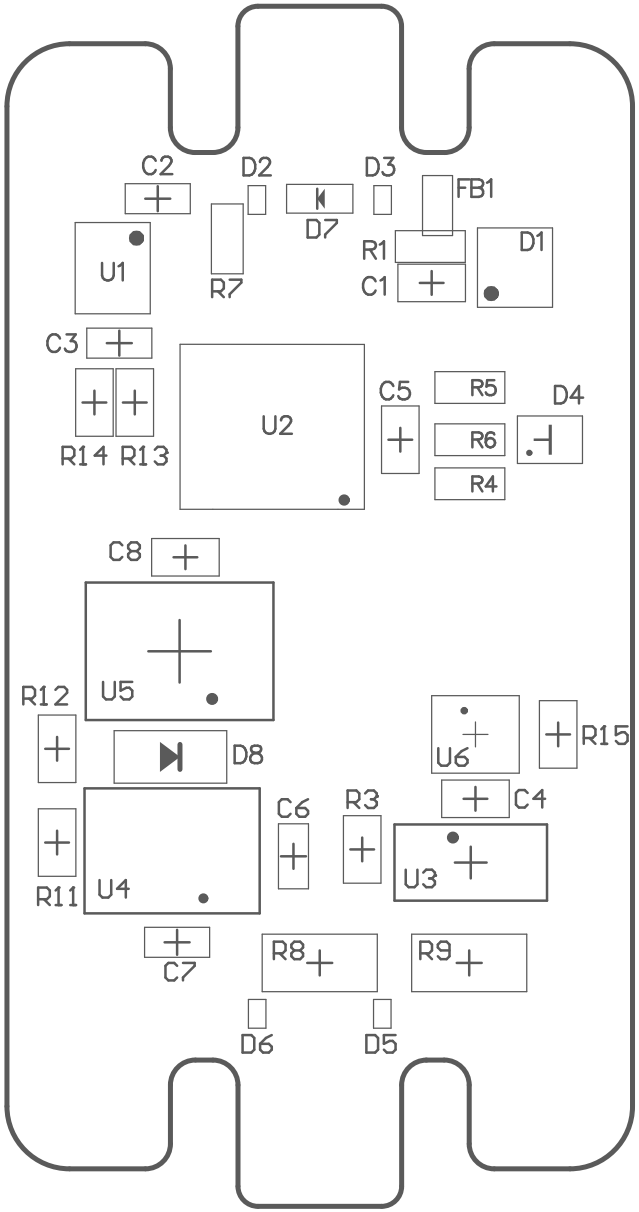
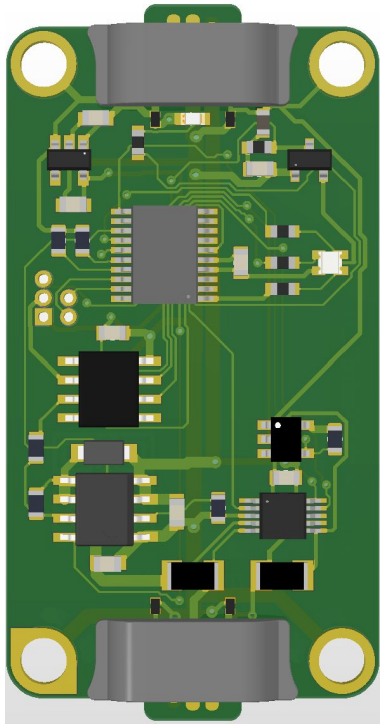
PROJECT FILENAME JacdacModuleTesterEc30 91.PrjPCB	PROJECT CODENAME JacdacModuleTesterEc30	Microsoft	PROJECT DESCRIPTION Jacdac testing module / SHEET DESCRIPTION Complete design
SHEET FILENAME JacdacModuleTesterEc30 91.SchDoc	LICENCE Attribution 4.0 International (CC BY 4.0)	LAST MODIFIED 13/03/2022	PAGE 1 OF 1 / DRAWN BY D. Gakure & S. Hodges / REVISION 0.2 / PCB ID 91-0.2

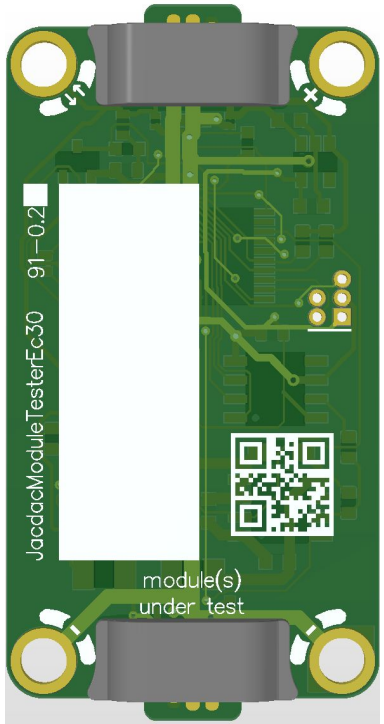
Board Outline
Top Assy



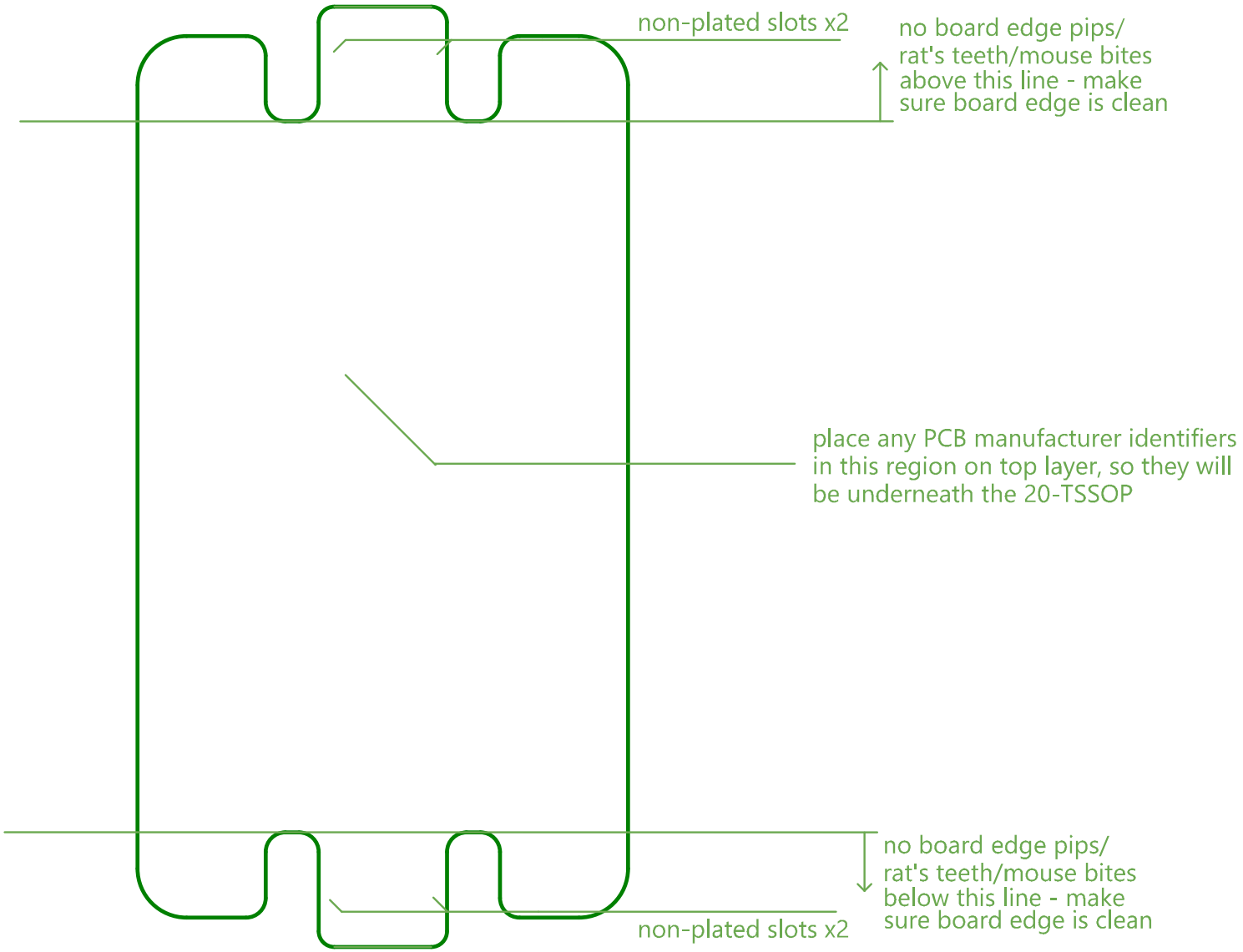
Board Outline

Bottom Assy



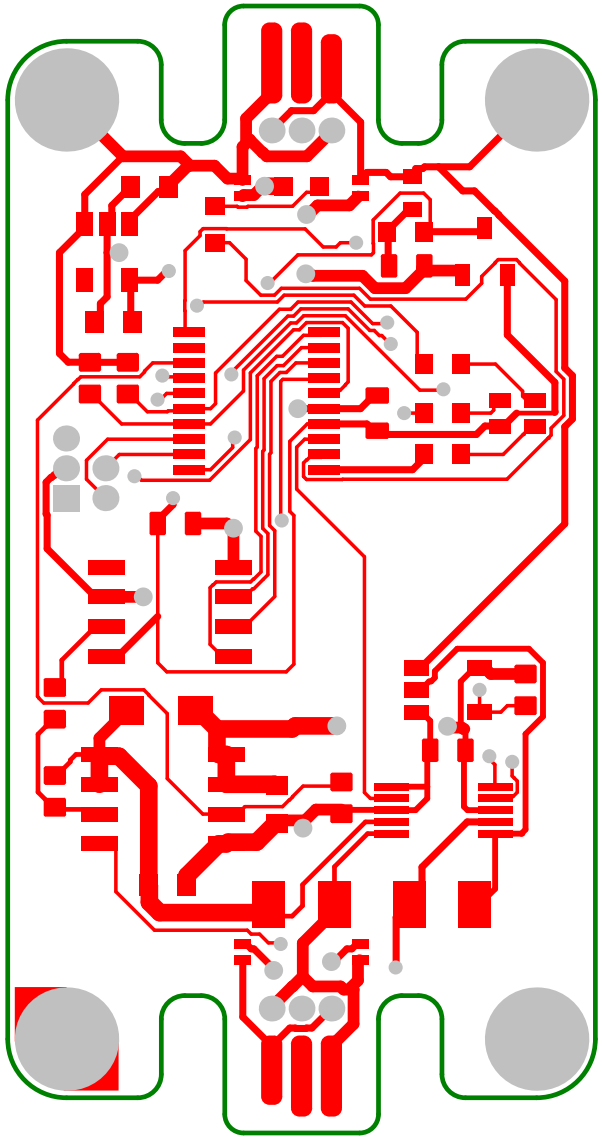

JacdacModuleTesterEc30 91-0.2
module(s)
under test

Fabrication Notes
Board Outline



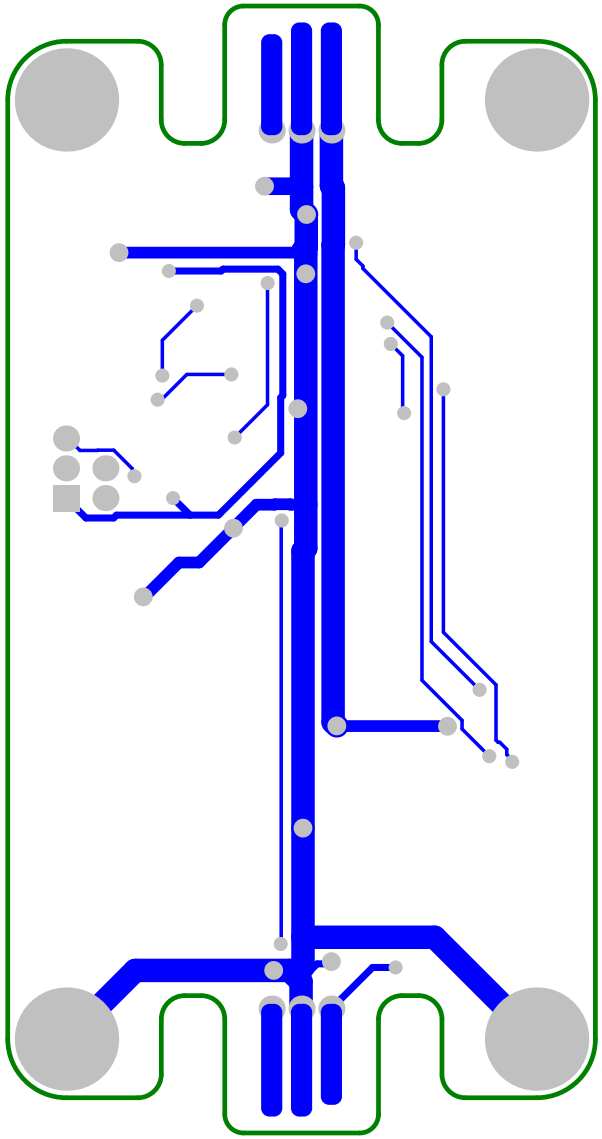
Top Layer

Board Outline



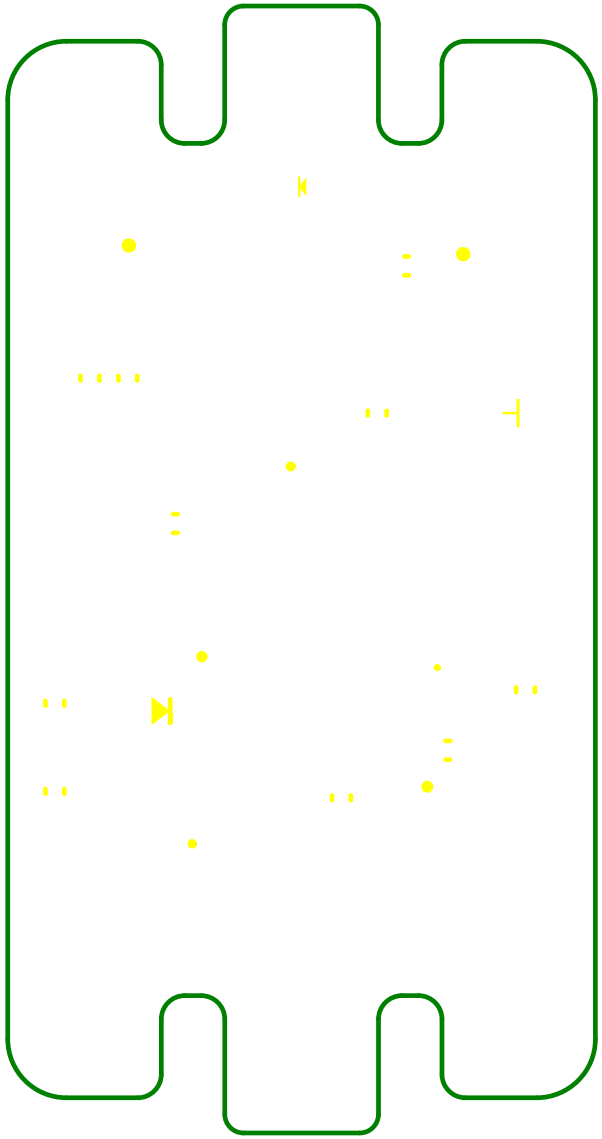
Bottom Layer

Board Outline



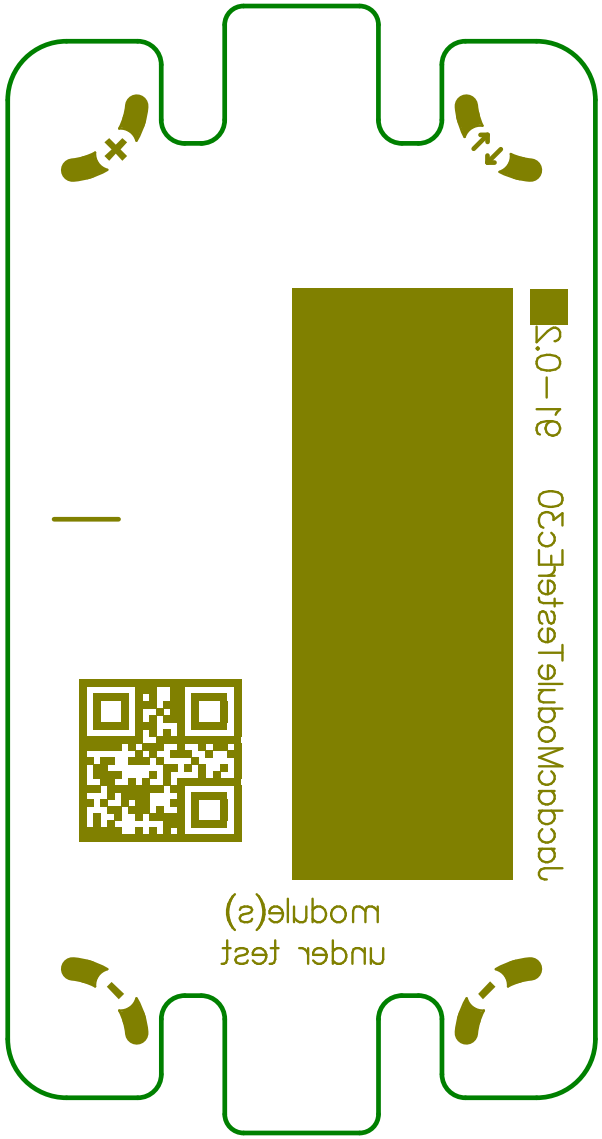
Board Outline

Top Overlay



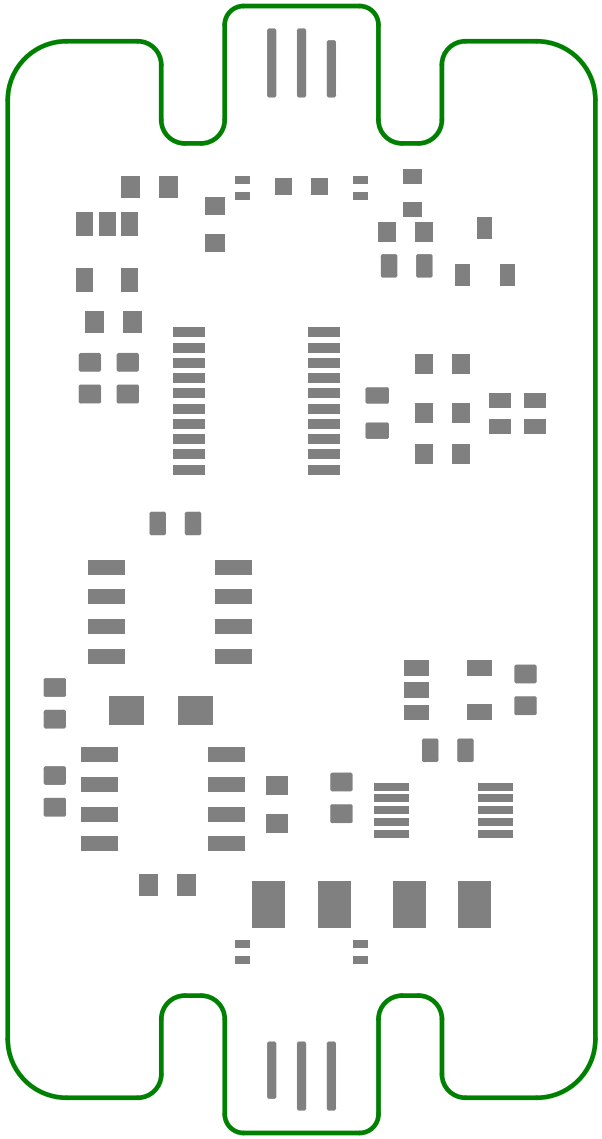
Board Outline

Bottom Overlay



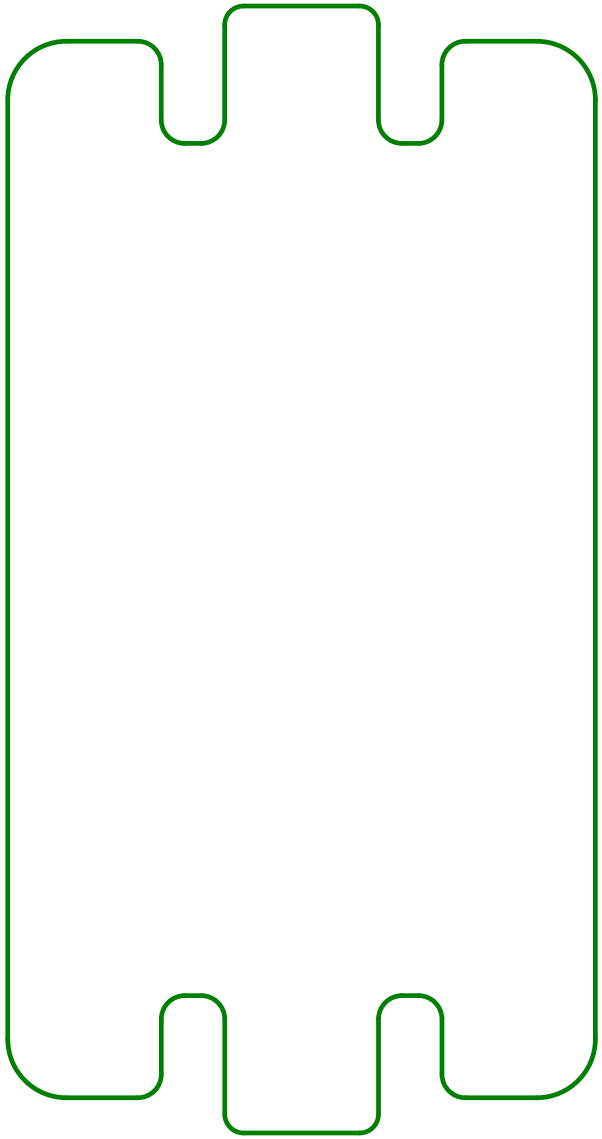
Board Outline

Top Paste



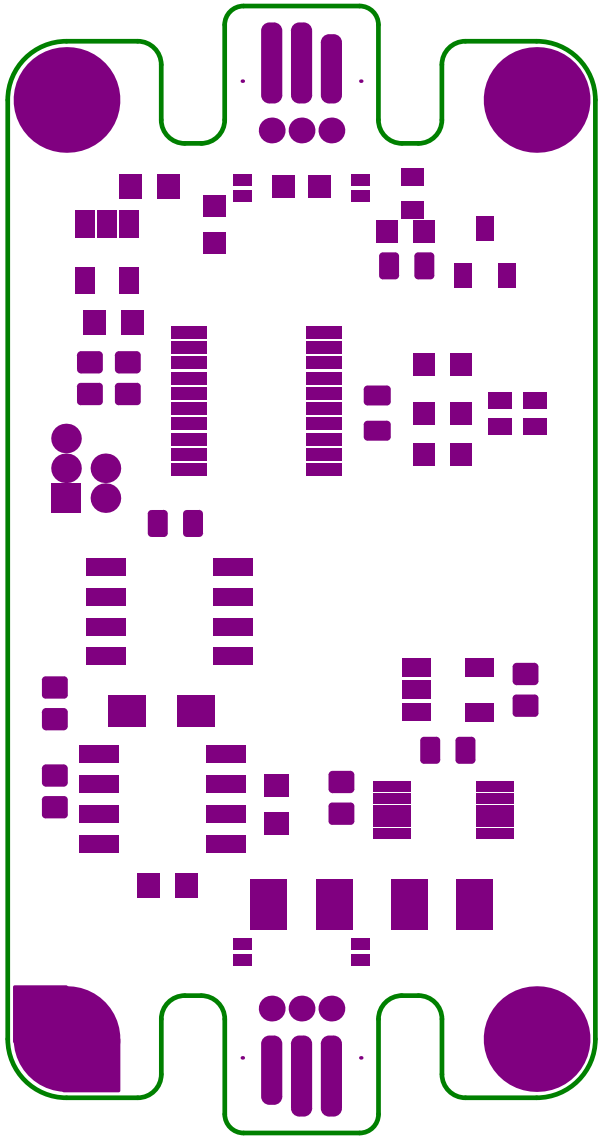
Board Outline

Bottom Paste



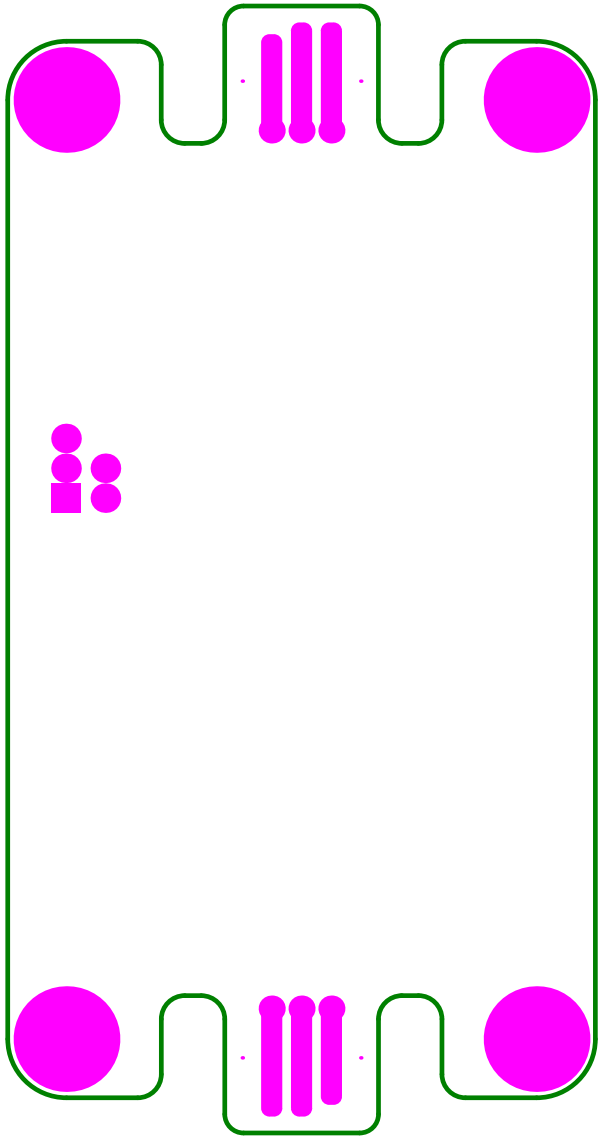
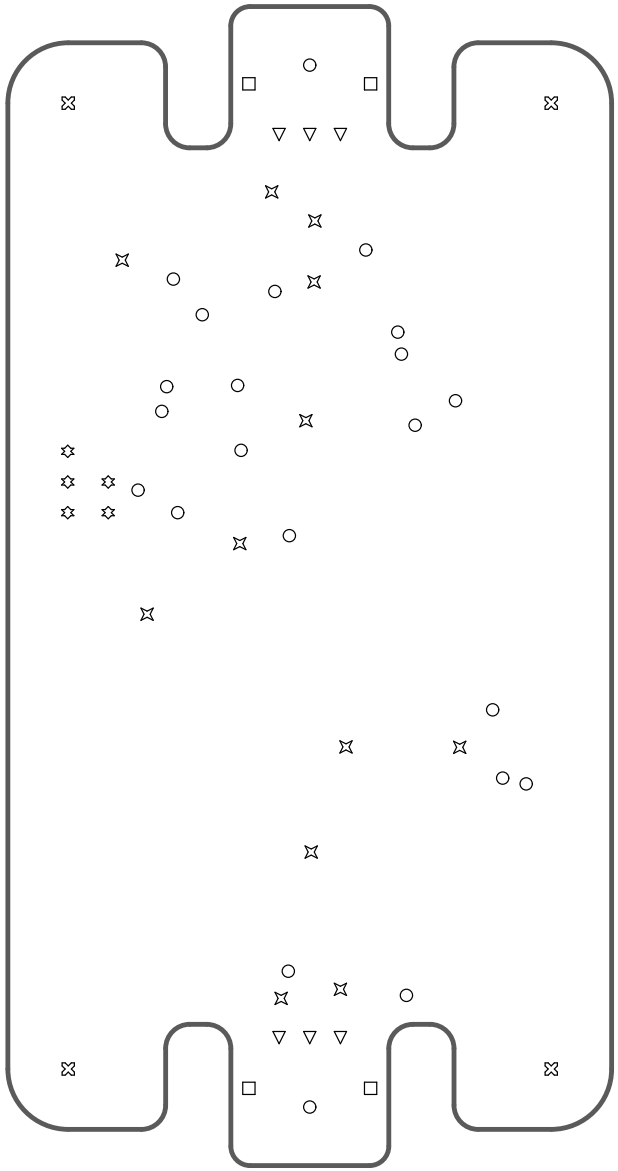
Board Outline

Top Solder (resist)



Board Outline

Bottom Solder (resist)



Board Outline