

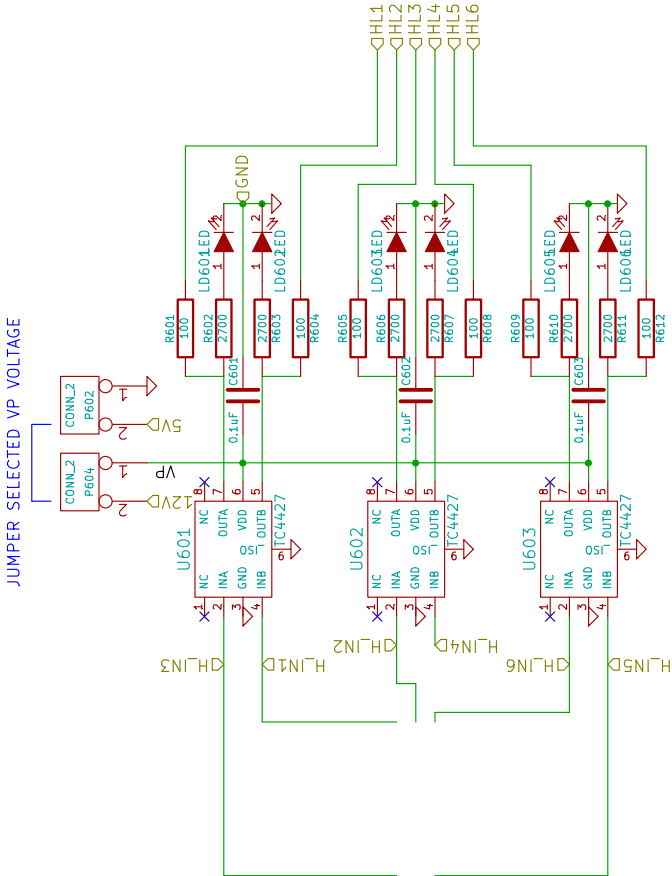
These two jumpers are here to accomodate stm32f4discovery

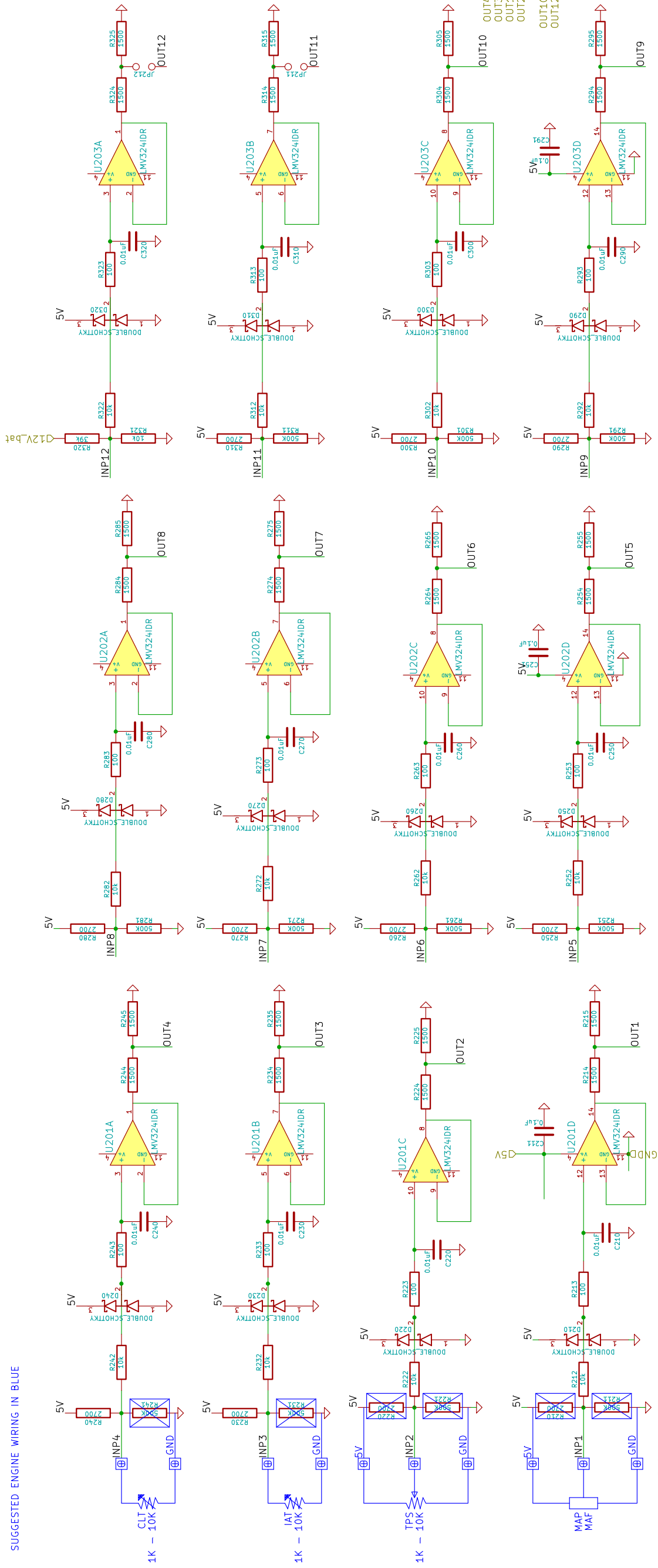
That's alternative signal OUTPUT – these traces should be routable to PC6 and PA5 via jumpers.
Alternative to W212 and W212 routing of op-amps ch 11 and ch 12

The JP1 jumper is needed because we cannot feed the screen via USB – we would need to disconnect it while the board is on a bench



6 channel high / low side driver

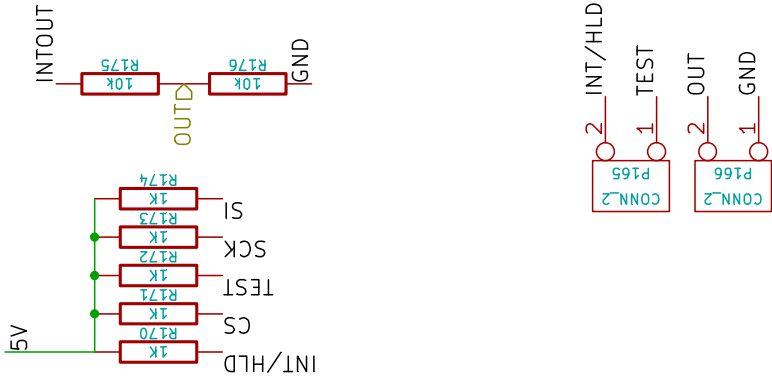
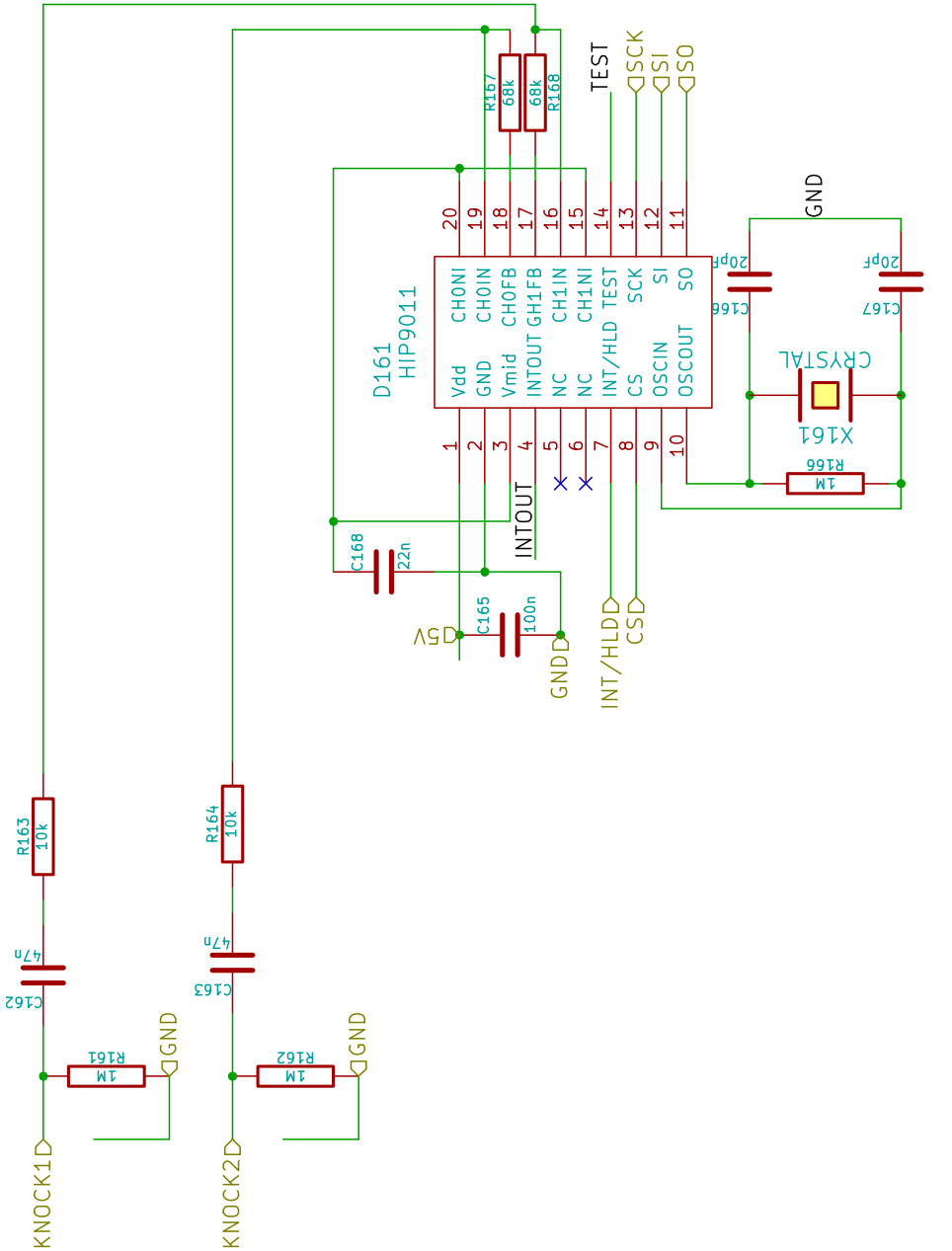






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DD_HIP9011 ver.2
RusEfi.com



rusEfi.com

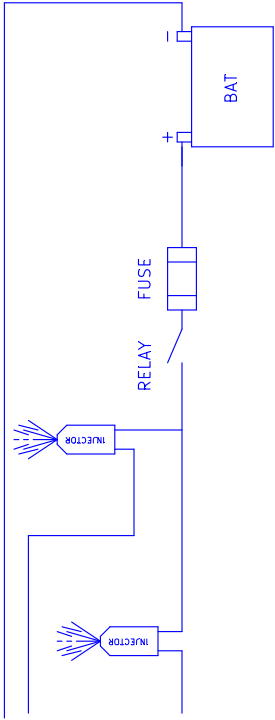
File: DD_HIP9011.sch

Sheet: /DD_HIP9011/

Title: Frankenso

Size: A4 Date: 11 jul 2014 Rev: .01

KiCad E.D.A. eeschema (2013-07-07 BZR 4022)-stable Id: 5/14



MISC NOTES

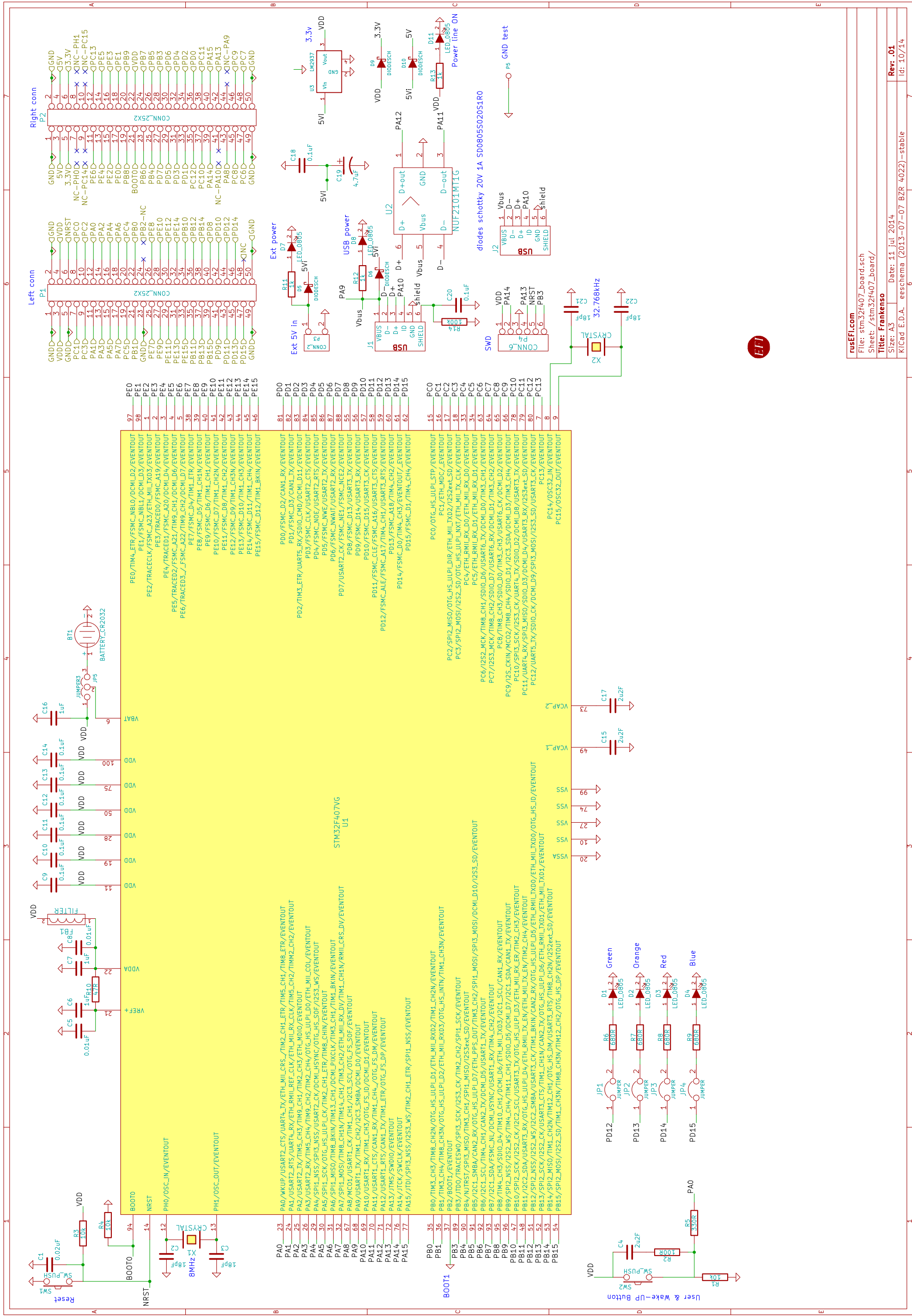
THE GENERAL SYSTEM LAYOUT IS SHOWN IN BLUE. THIS IS NOT THE SUGGESTED SYSTEM WIRING, IT DOES SHOW THE GENERAL OVERALL CIRCUIT LAYOUT TOPOLOGY.

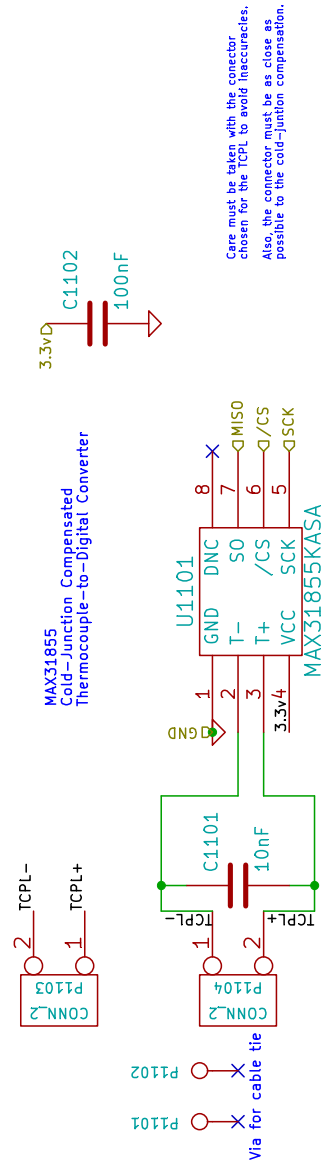
THE PCB WIRING IS SHOWN IN RED, GREEN WITH A BLUE BUS.

Screw terminals 1760500000

Screw connector PCB <http://octopart.com/39522-1007-molex-655409>

Screw connector PCB <http://octopart.com/partsearch#search/requestData&q=39520-0007>





We want a big mass of copper in the TCPL joints, to dampen the cold junction temperature and to make it more measurable with this IC

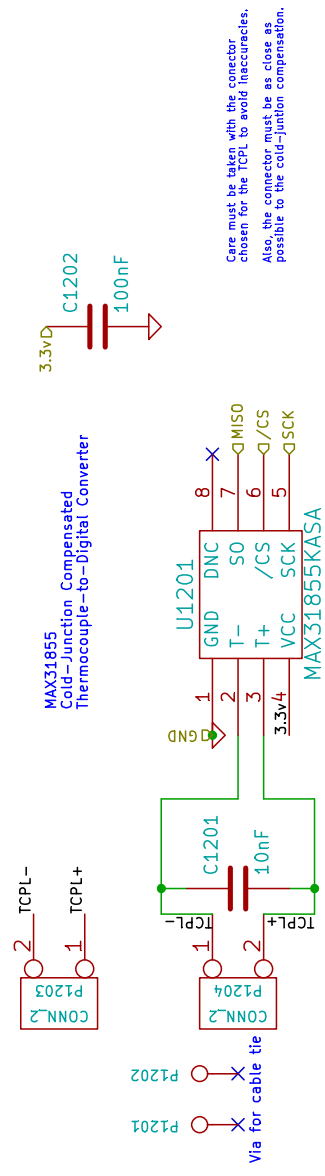
Datasheet:
<http://datasheets.maxim-ic.com/en/ds/MAX31855.pdf>



Care must be taken with the connector chosen for the TCPL to avoid inaccuracies. Also, the connector must be as close as possible to the cold-junction compensation.

Mrk Industries	
File: thermocouple_module.sch	
Sheet: /thermocouple1/	
Title: Electronic Industrial Temperature Interface (EITI)	
Size: A4	Date: 11 jul 2014
KIcad E.D.A.	eesschema (2013-07-07 BZR 4022) - stable
	4 5
	Rev: .001
	Id: 11/14

Mrk Industries	
File: thermocouple_module.sch	
Sheet: /thermocouple1/	
Title: Electronic Industrial Temperature Interface (EITI)	
Size: A4	Date: 11 jul 2014
Rev: .001	
KiCad E.D.A.	eeschema (2013-07-07 BZR 4022)-stable
Id: 11/14	

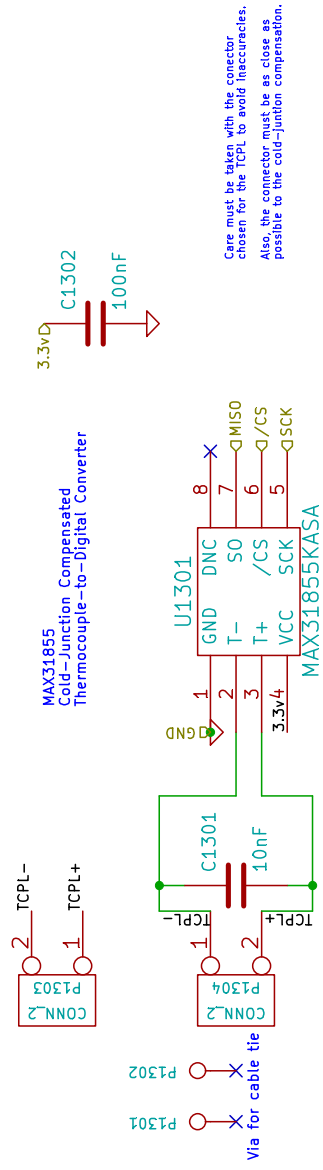


We want a big mass of copper in the TCPL joints, to dampen the cold junction temperature and to make it more measurable with this IC

Datasheet:
<http://datasheets.maxim-ic.com/en/ds/MAX31855.pdf>

Care must be taken with the connector chosen for the TCPL to avoid inaccuracies. Also, the connector must be as close as possible to the cold-junction compensation.

Mrk Industries	
File: thermocouple_module.sch	
Sheet: /thermocouple2/	
Title: Electronic Industrial Temperature Interface (EITI)	
Size: A4	Date: 11 jul 2014
KIcad E.D.A.	eesschema (2013-07-07 BZR 4022) - stable
	4 5
	Rev: .001
	Id: 12/14



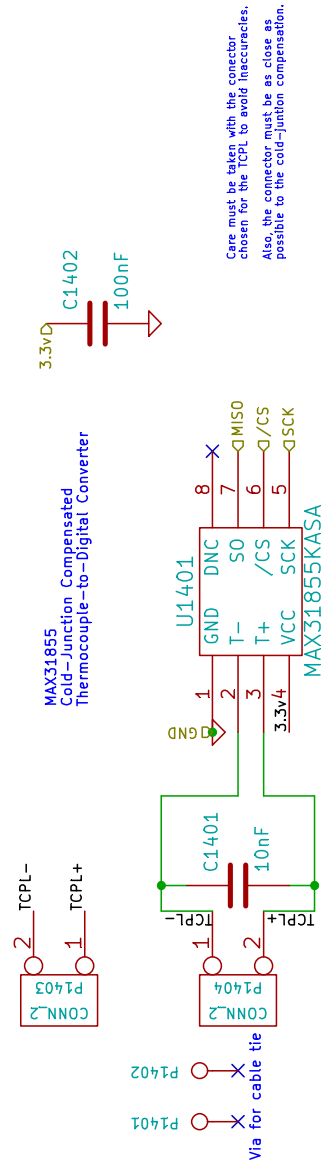
Via for cable

We want a big mass of copper in the TCPL joints, to dampen the cold junction temperature and to make it more measurable with this IC

Datasheet:
<http://datasheets.maxim-ic.com/en/ds/MAX31855.pdf>

Care must be taken with the connector chosen for the TCPL to avoid inaccuracies. Also, the connector must be as close as possible to the cold-junction compensation.

Mrk Industries	
File: thermocouple_module.sch	
Sheet: /thermocouple3/	
Title: Electronic Industrial Temperature Interface (EITI)	
Size: A4	Date: 11. jul 2014
KiCad E.D.A.	eesschema (2013-07-07 BZR 4022)-stable
Rev: .001	Id: 13/14



We want a big mass of copper in the TCPL joints, to dampen the cold junction temperature and to make it more measurable with this IC

Datasheet:
<http://datasheets.maxim-ic.com/en/ds/MAX31855.pdf>

Care must be taken with the connector chosen for the TCPL to avoid inaccuracies. Also, the connector must be as close as possible to the cold-junction compensation.

Mrk Industries	
File: thermocouple_module.sch	
Sheet: /thermocouple4/	
Title: Electronic Industrial Temperature Interface (EITI)	
Size: A4	Date: 11 jul 2014
KiCad E.D.A.	eesschema (2013-07-07 BZR 4022)-stable
	4
	5
	Rev: .001
	Id: 14/14