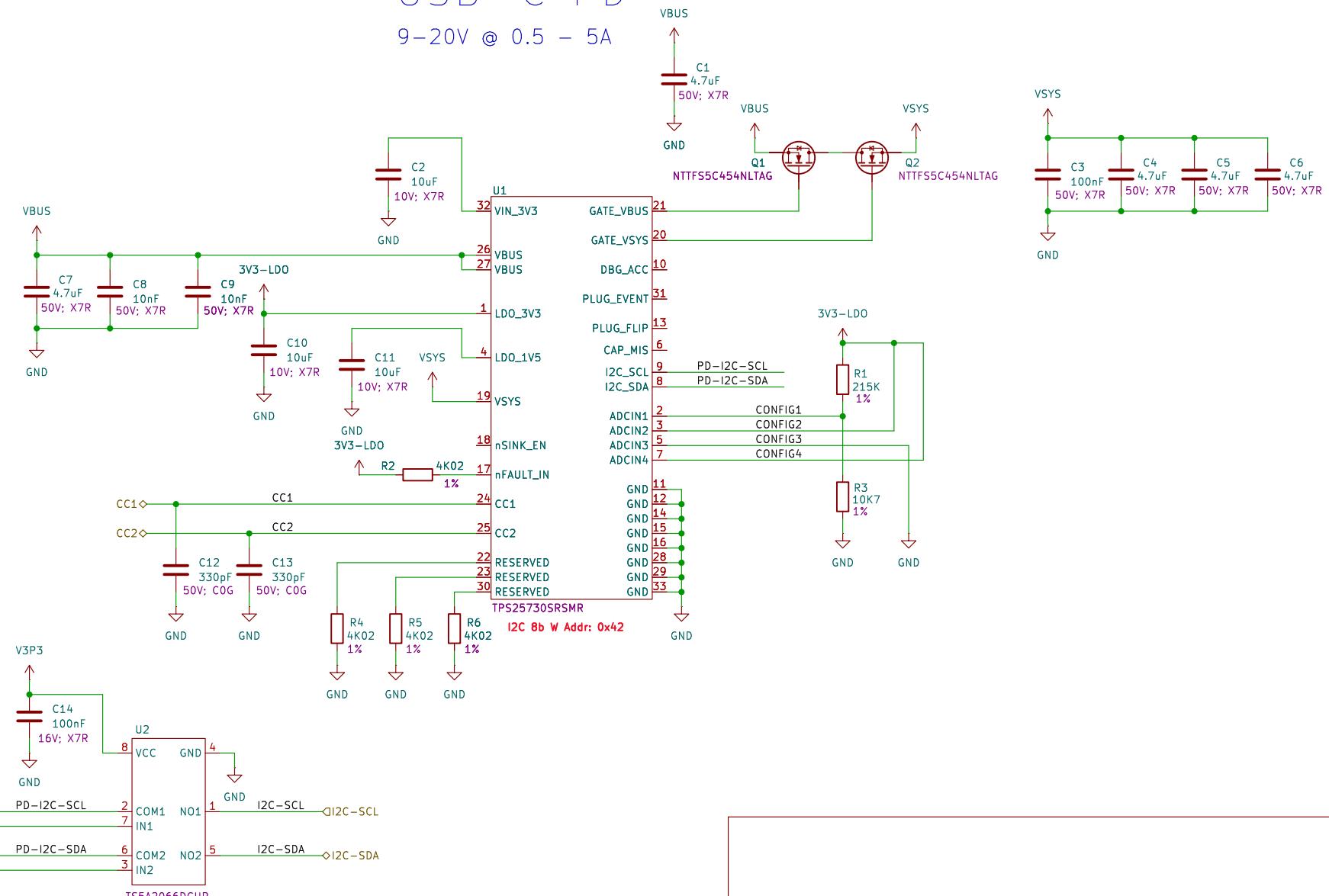


USB-C PD

9–20V @ 0.5 – 5A



Sheet: /USB-C PD Input/
File: USB-C PD.kicad_sch

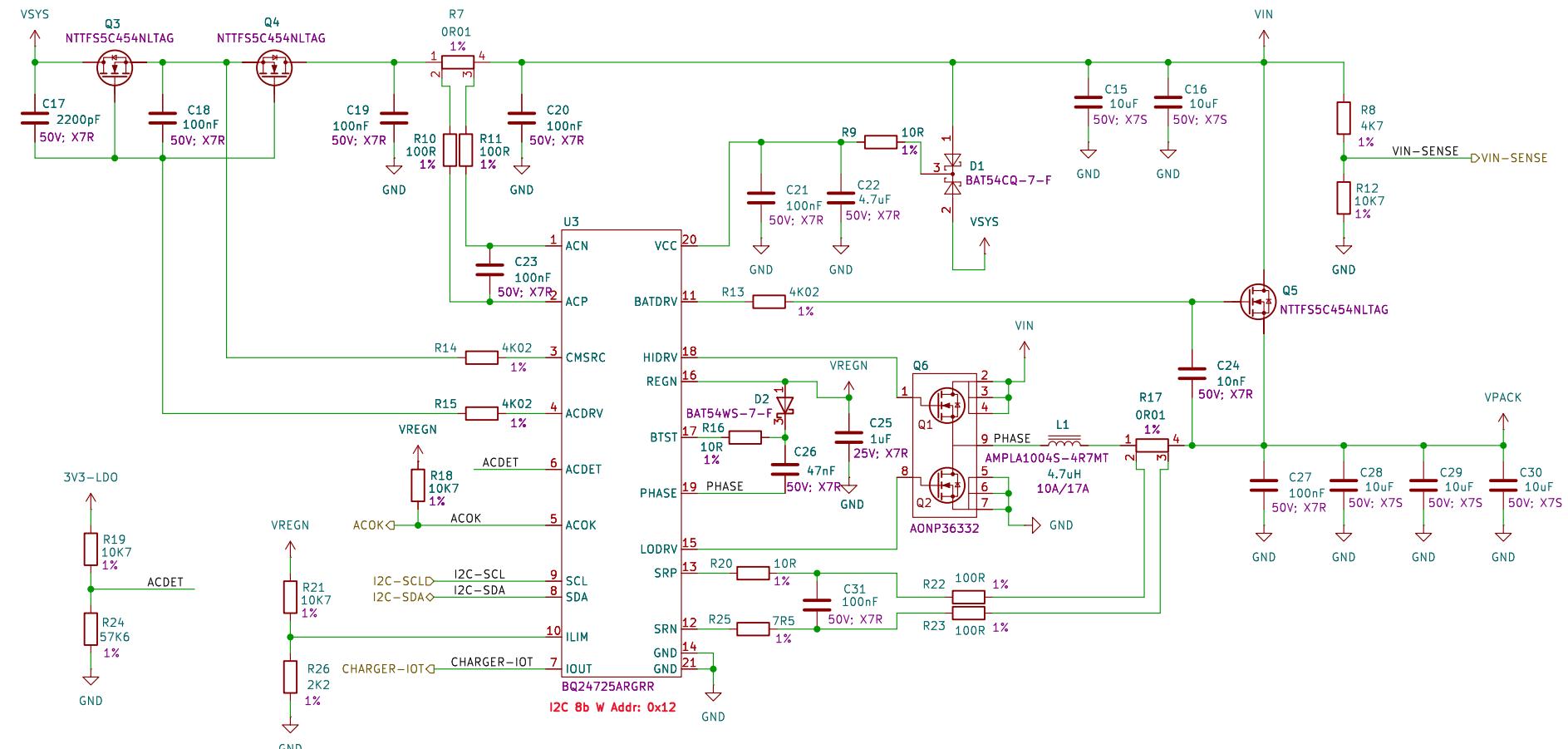
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Size: A4 | Date:
KiCad E.D.A. 9.0.4

Rev:
Id: 2/10

2S–4S Battery Pack Charger

5A Max Charge Rate



Sheet: /Pack Charger/
File: Battery Charger.kicad_sch

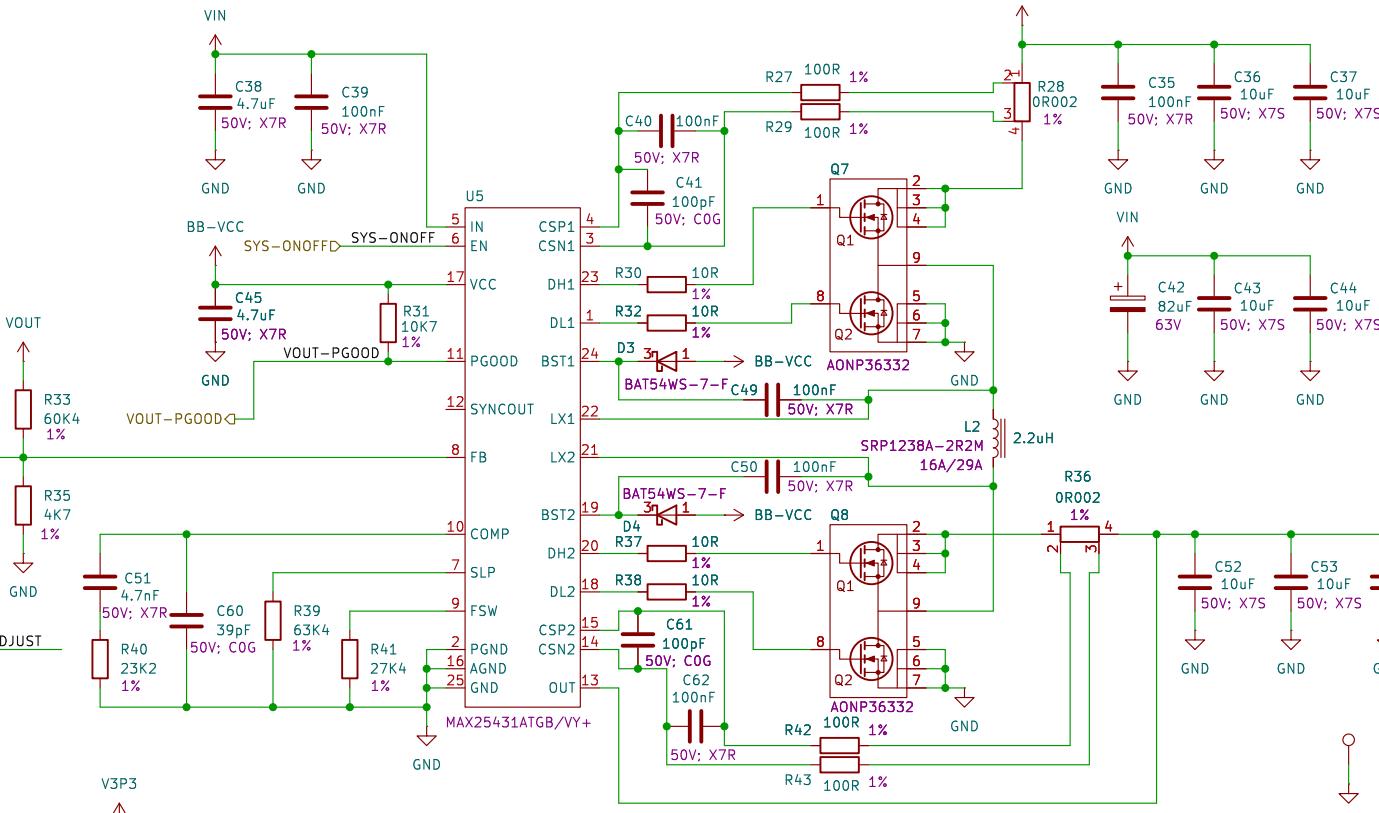
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KiCad E.D.A. 9.0.4

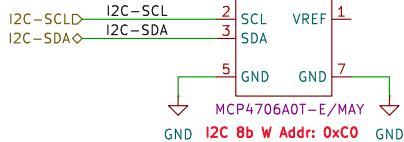
Rev:
Id: 3/10

5–24V Buck–Boost

5A Limit || 100W Limit



Output Voltage Adjust DAC



Min DAC	Voutmax(h)	26.2 V
	Voutmax(l)	24.5 V
Max DAC	Voutmin(h)	4.7 V
	Voutmin(l)	3.9 V

GND Ref

3.3V LDO

VSS Ref

3.3V LDO

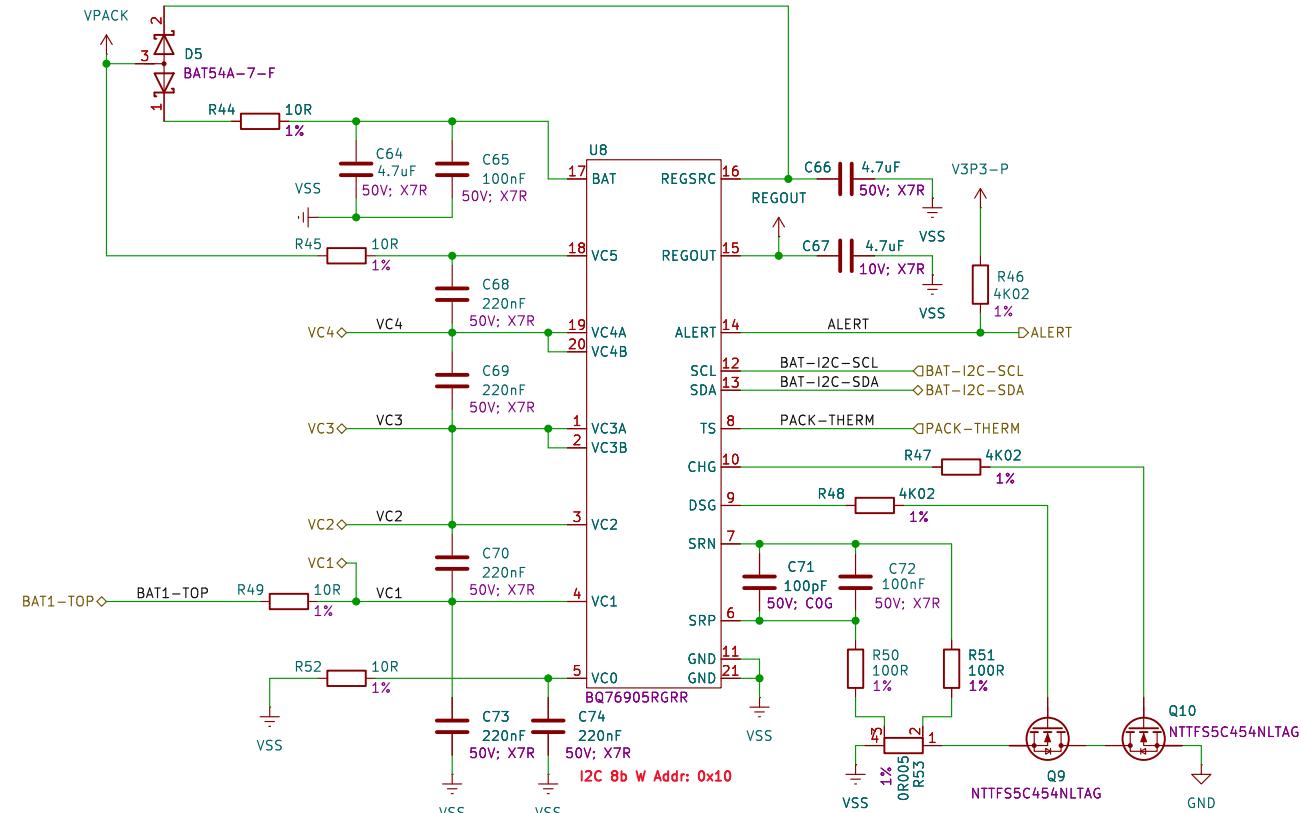
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Title:

Size: A4 | Date:
KiCad E.D.A. 9.0.4

Rev:
Id: 4/10

2S–4S Cell Monitor and Balancer



Sheet: /Pack Manager/
File: Battery Manager.kicad_sch

Title:

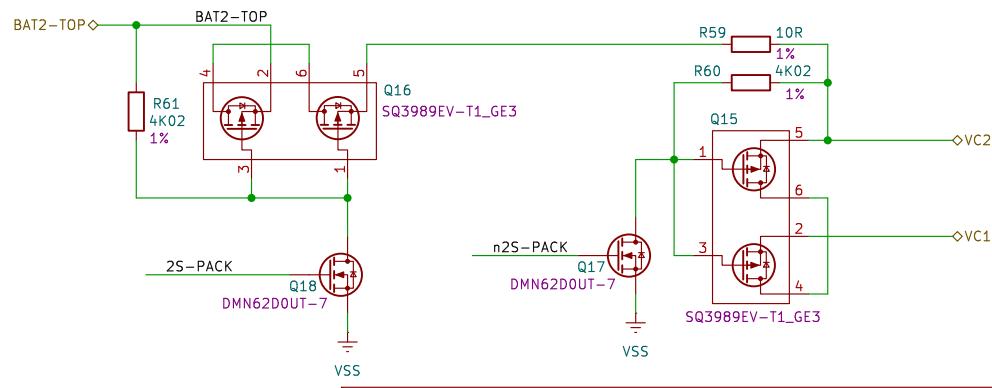
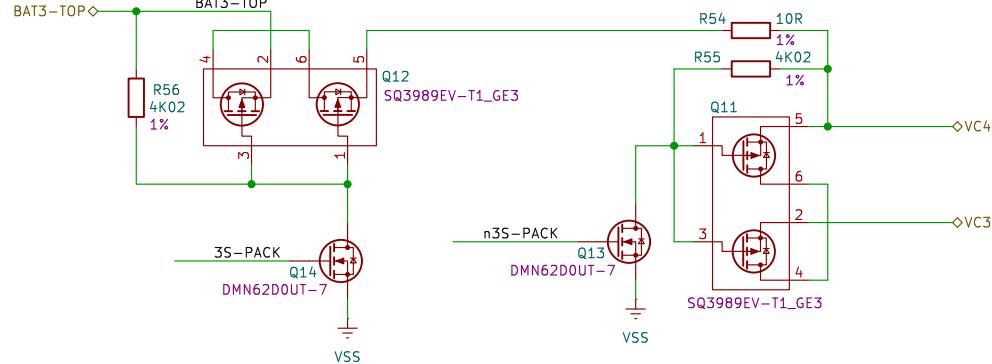
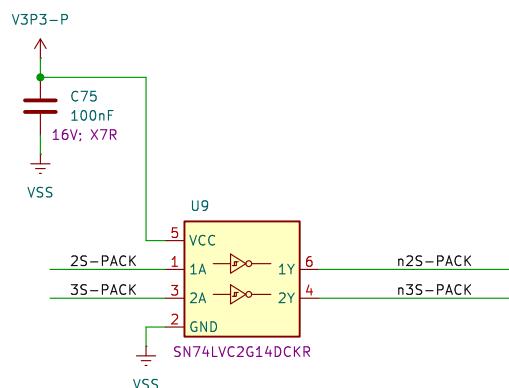
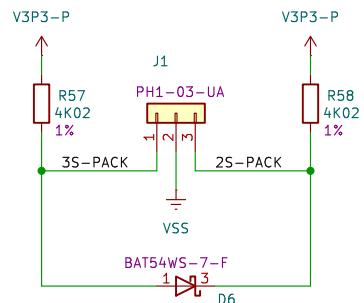
Size: A4 Date:
KiCad E.D.A. 9.0.4

Rev:
Id: 5/10

Pack Config

**!DO NOT CHANGE WHILE LIVE!
POWER OFF AND
UNINSTALL OR DISCONNECT
BATTERIES FIRST
IGNORING THIS COULD HURT YOU**

No Jump = 4S
Jump 1-2 = 3S
Jump 2-3 = 2S



Sheet: /Pack Configuration/
File: Pack Config.kicad_sch

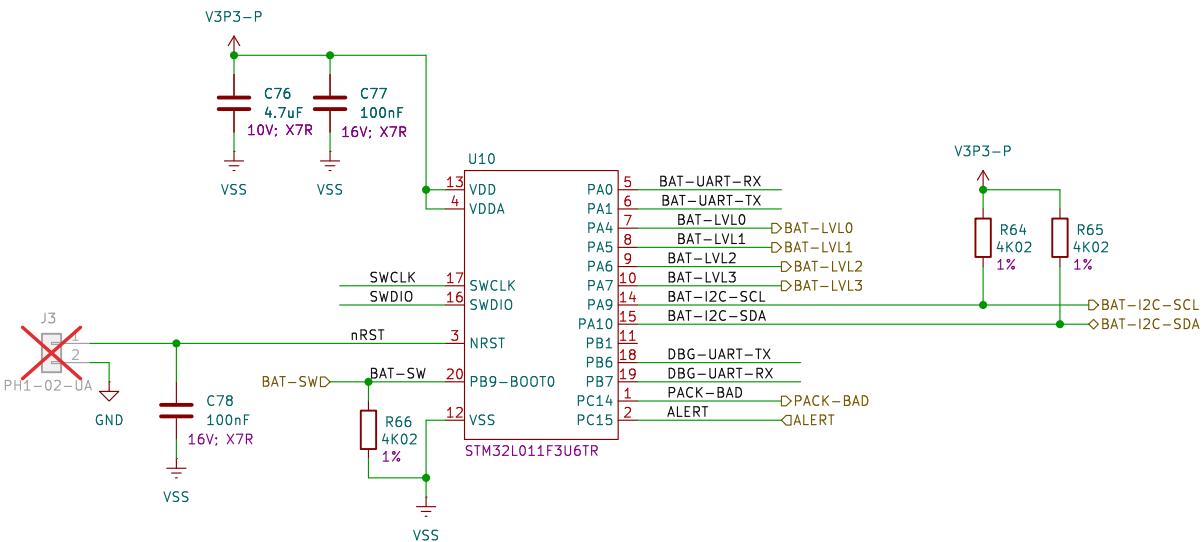
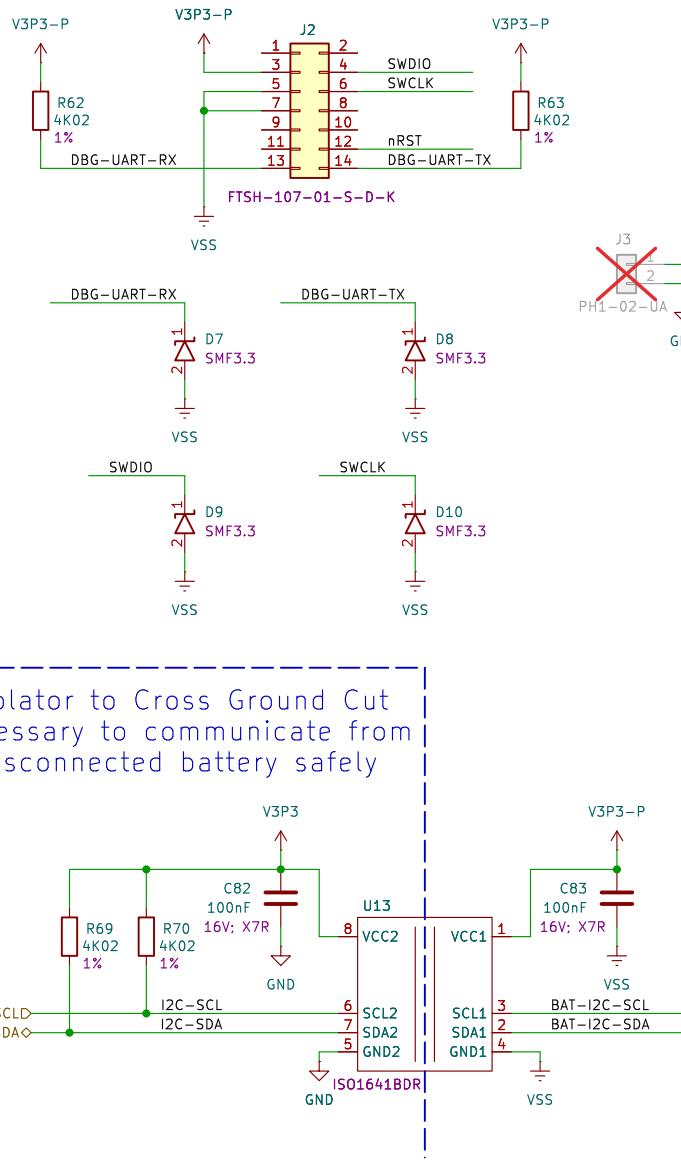
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KiCad E.D.A. 9.0.4

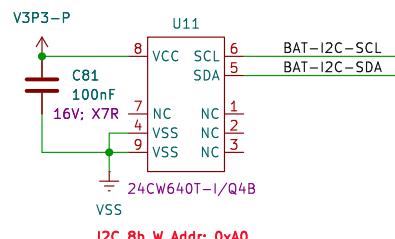
Rev:
Id: 6/10

Battery Management MCU

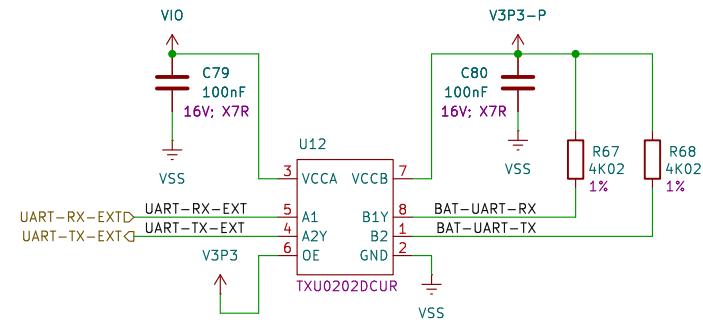
Debug Header



64kbit EEPROM



UART Level Translator

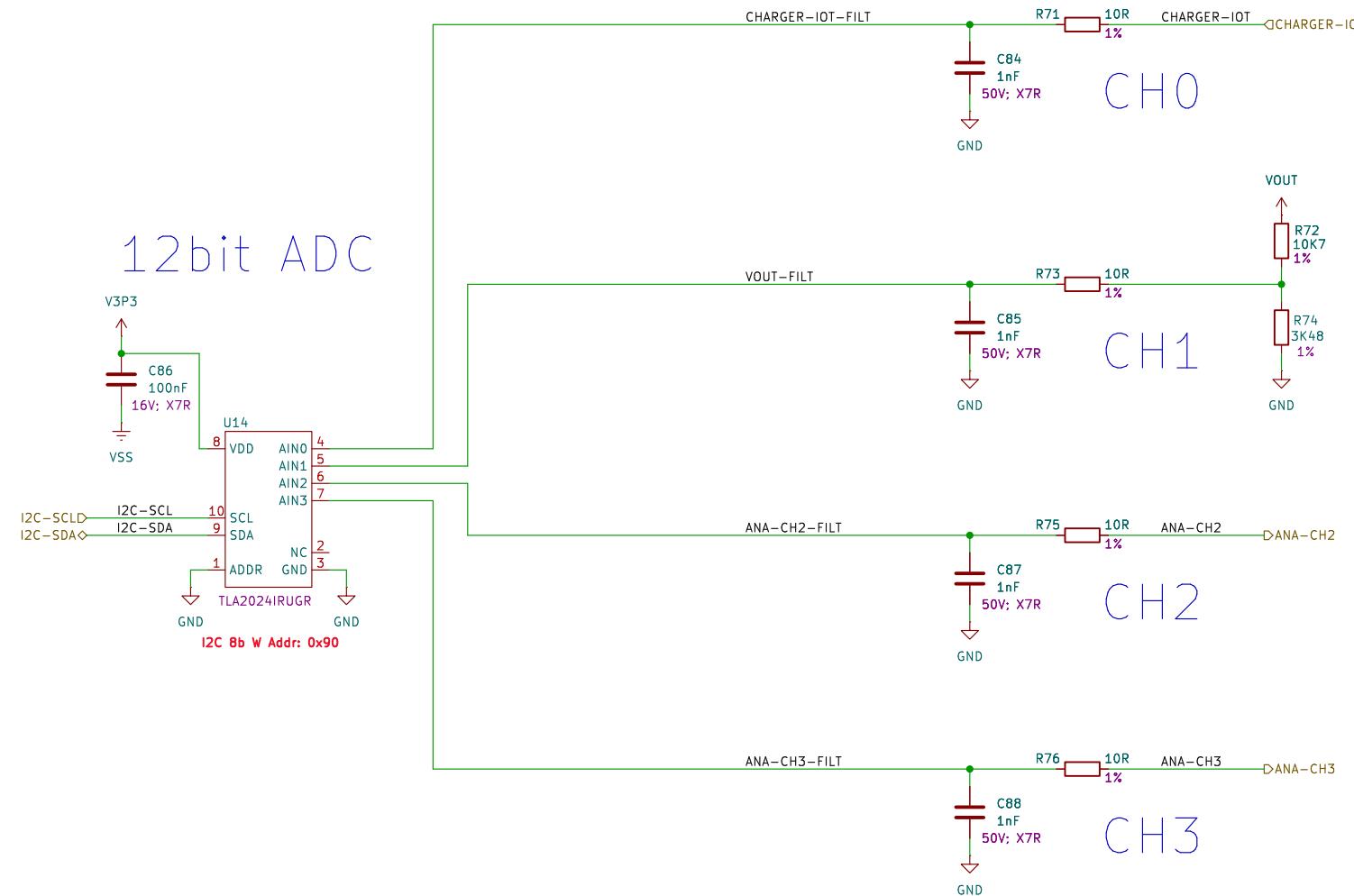


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Title:

Size: A4 Date: KiCad E.D.A. 9.0.4

Rev:
Id: 7/10

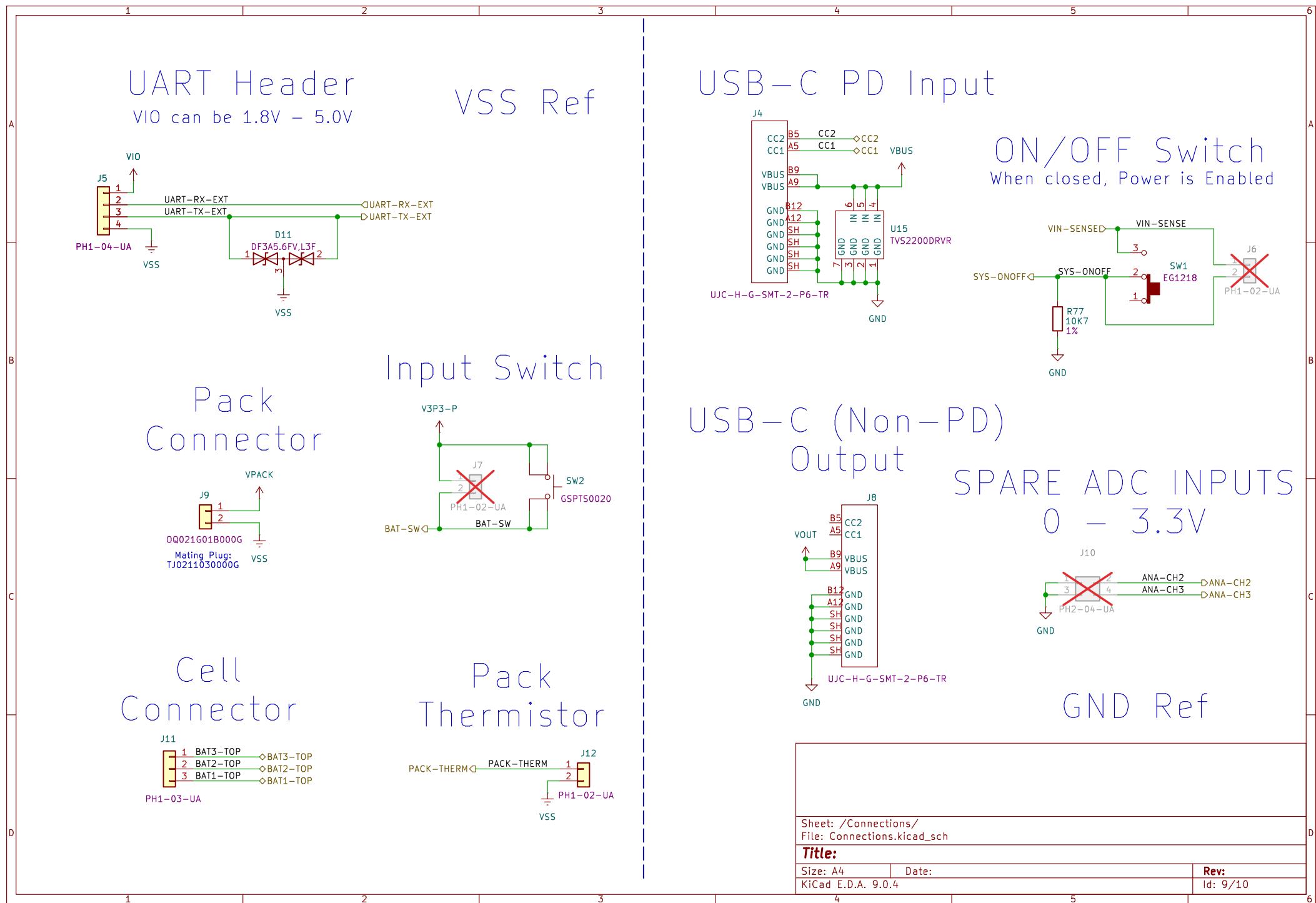


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Title:

Size: A4 | Date:
KiCad E.D.A. 9.0.4

Rev:
Id: 8/10



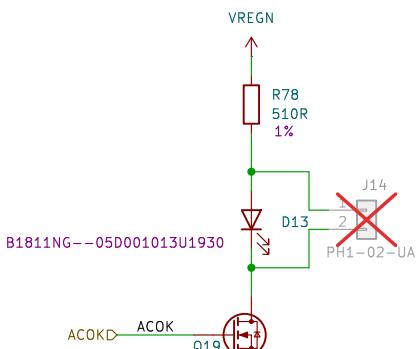
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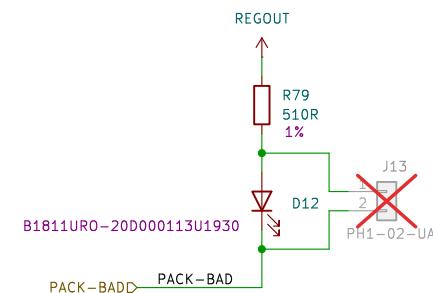
Size: A4 | Date:
KiCad E.D.A. 9.0.4

Rev:
Id: 9/10

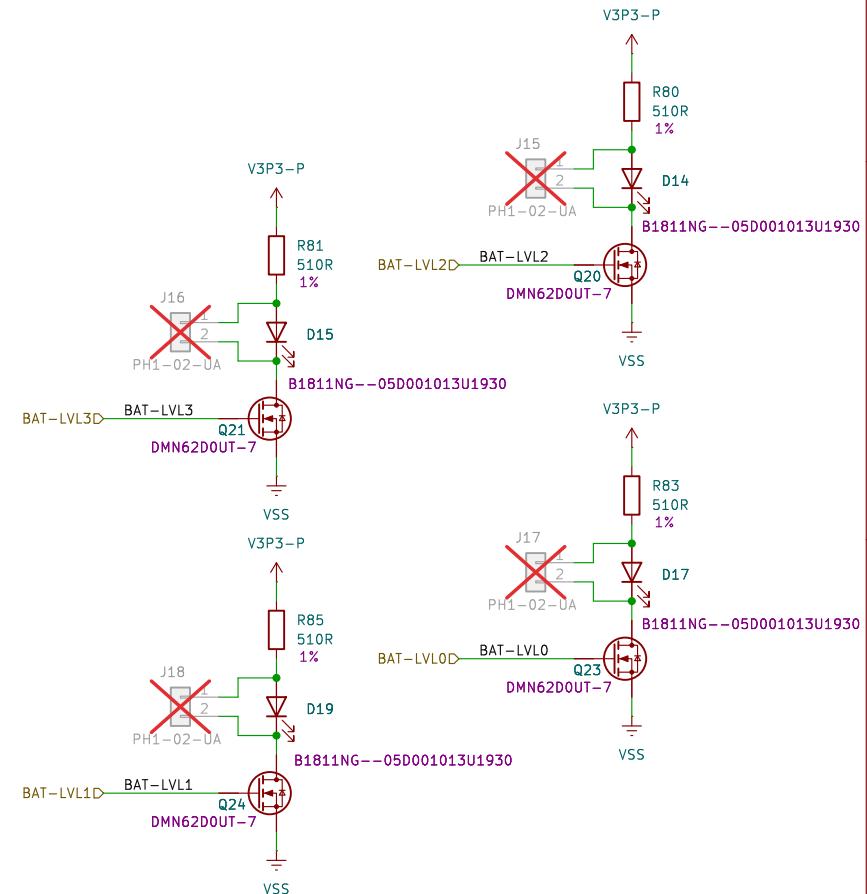
USB-C PD OK LED



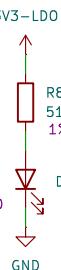
Pack Bad LED



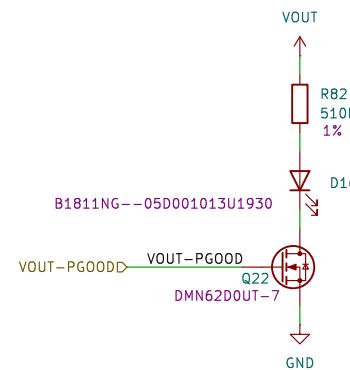
Pack Charge LEDs



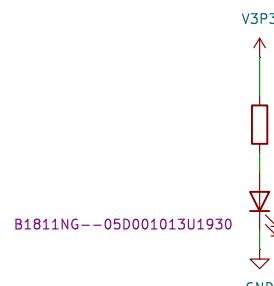
USB-C LDO GOOD



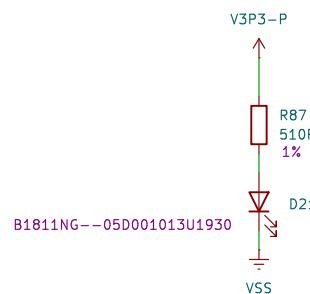
VOUT PGOOD



V3P3 GOOD



PACK V3P3 GOOD



Sheet: /Indicators/
File: Indicators.kicad_sch

Title:

Size: A4 | Date:
KiCad E.D.A. 9.0.4

Rev:
Id: 10/10