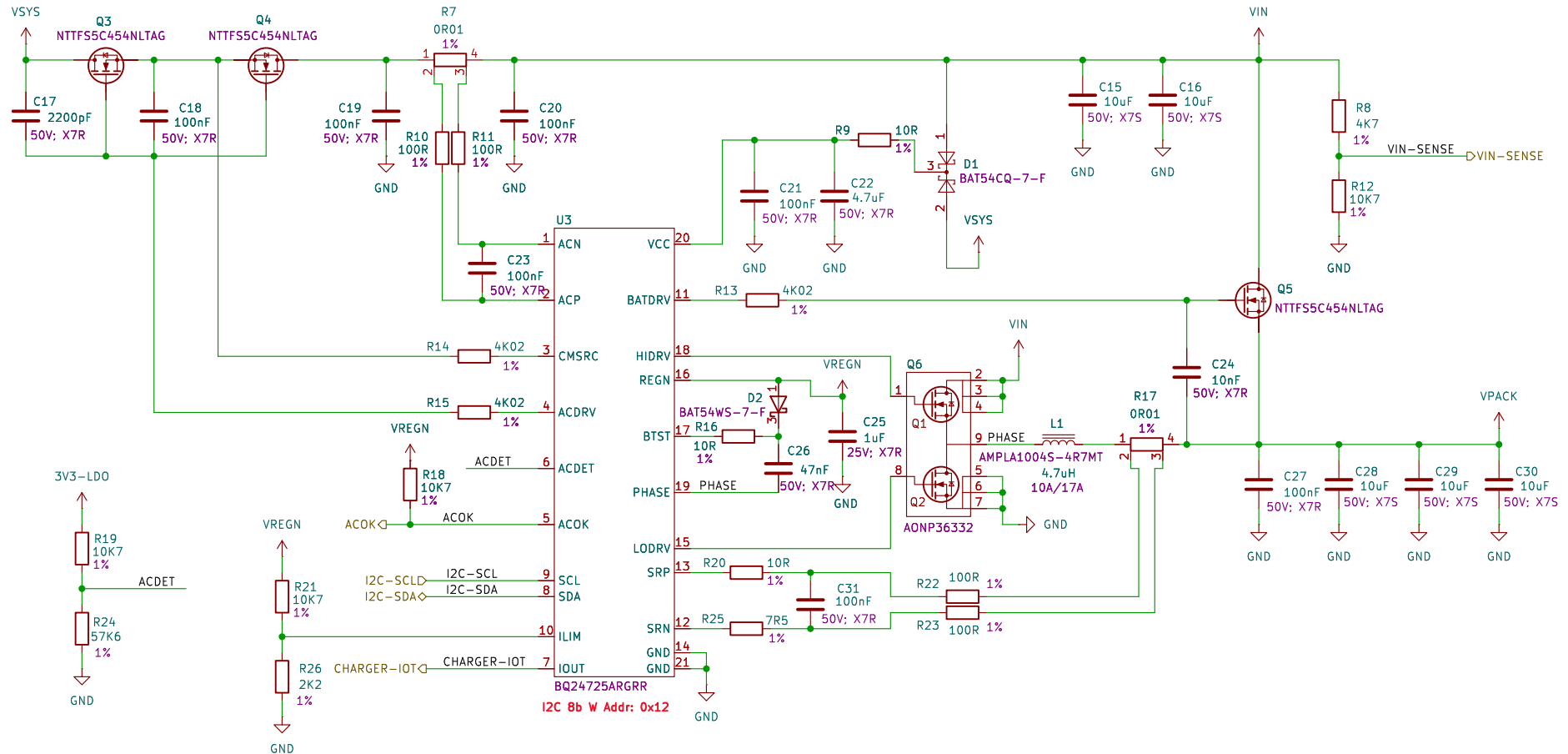


9-20V @ 0.5 - 5A



2S-4S Battery Pack Charger

5A Max Charge Rate



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

Title:

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

Date:

Rev:

Id: 3/10

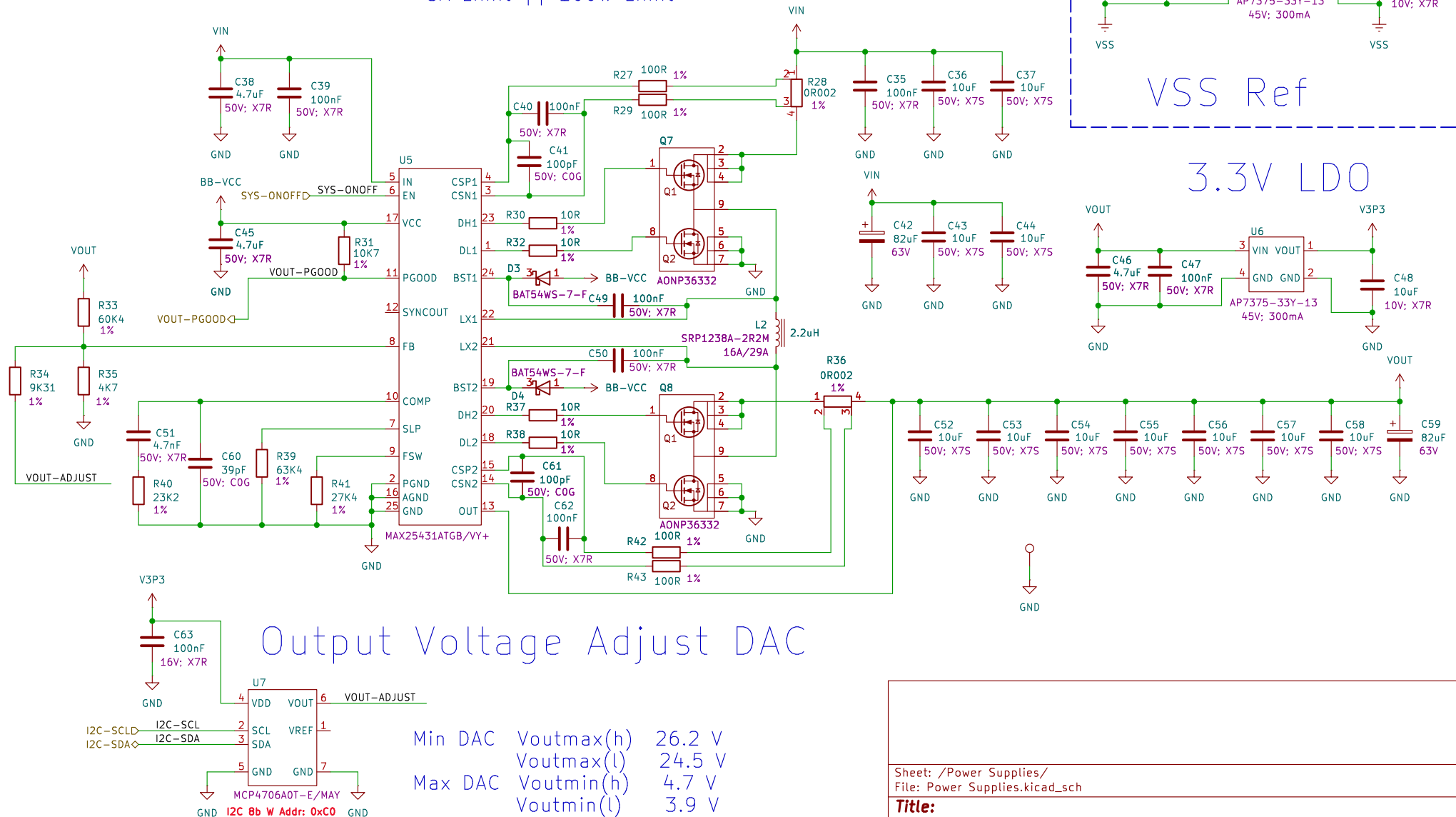
5-24V Buck-Boost 5A Limit || 100W Limit

GND Ref

3.3V LDO

VSS Ref

3.3V LDO



Sheet: /Power Supplies/
File: Power Supplies.kicad_sch

Title:

Size: A4

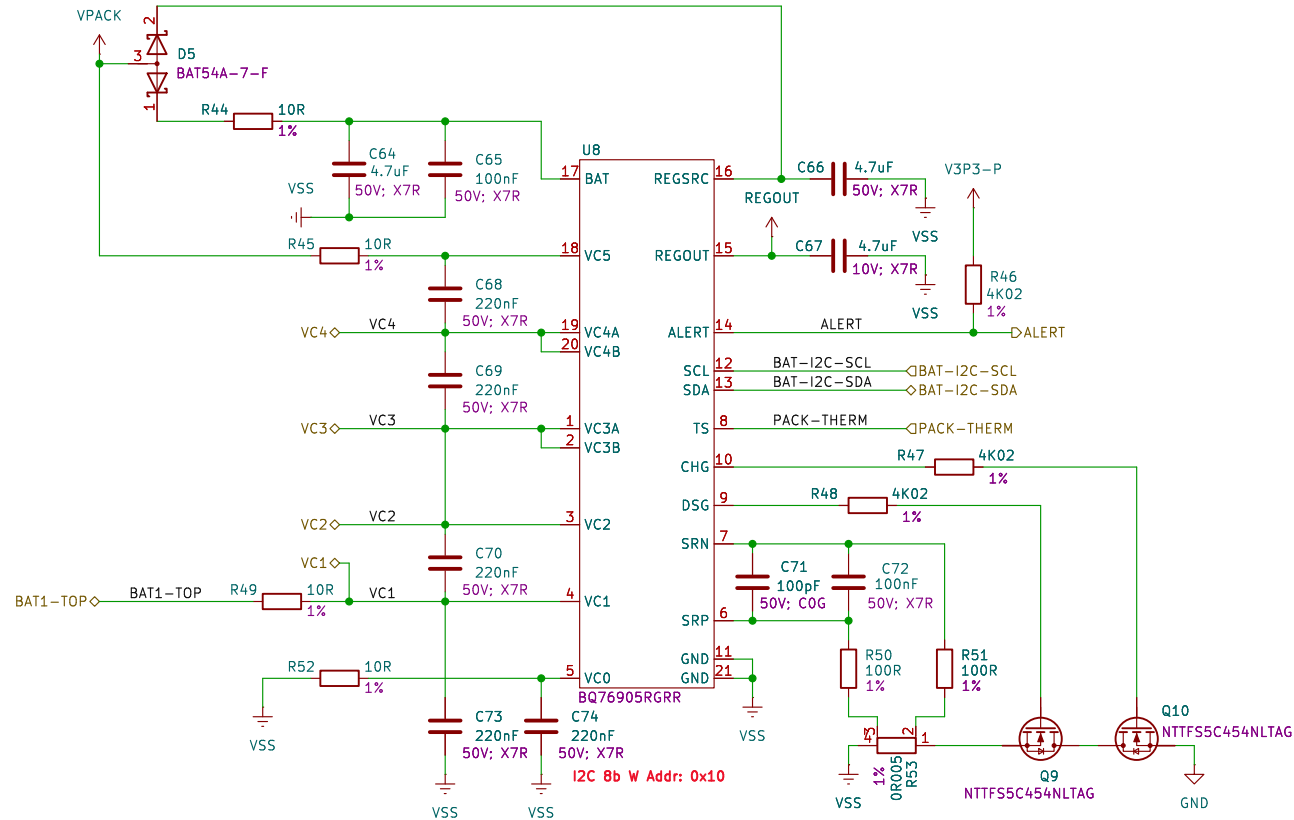
Date:

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Rev:

Id: 4/10

2S-4S Cell Monitor and Balancer



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

Title:

Size: A4

Date:

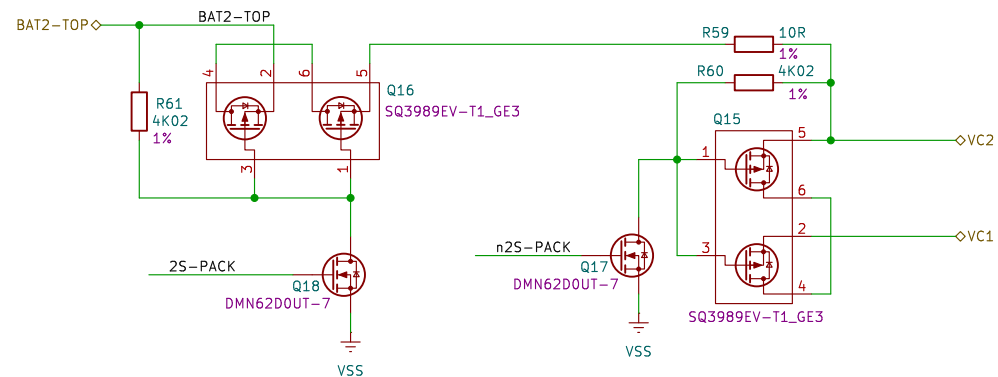
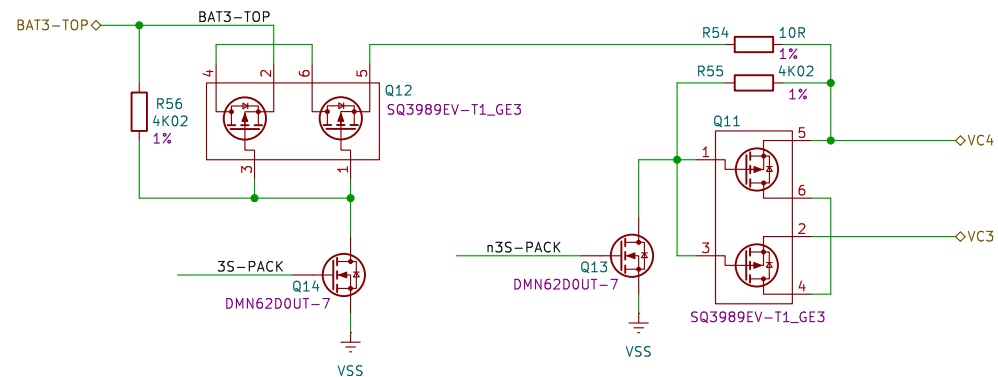
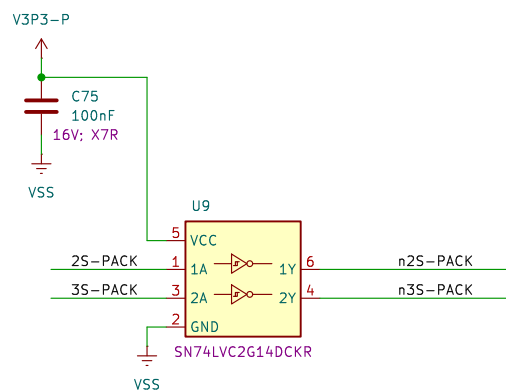
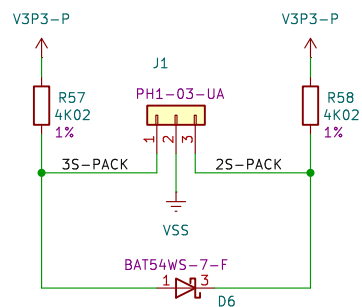
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Rev:

Id: 5/10

**!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

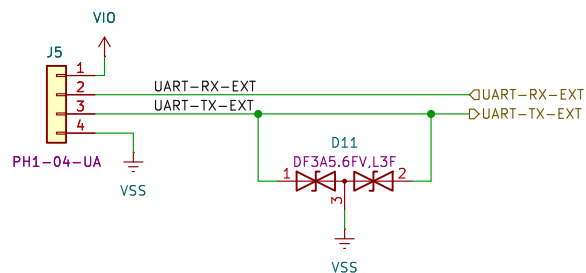
Title:

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

Rev:
Id: 6/10

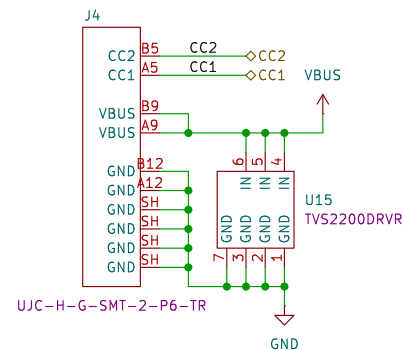
UART Header

VIO can be 1.8V – 5.0V



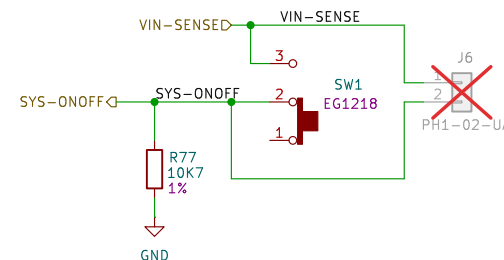
VSS Ref

USB-C PD Input

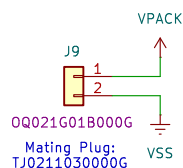


ON/OFF Switch

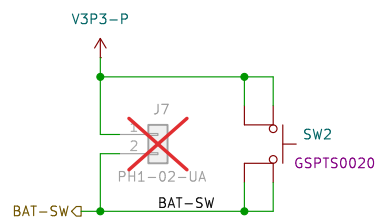
When closed, Power is Enabled



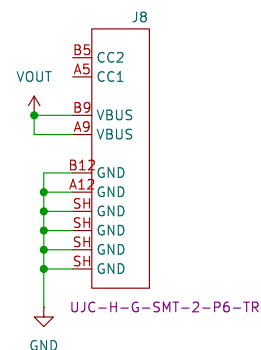
Pack Connector



Input Switch

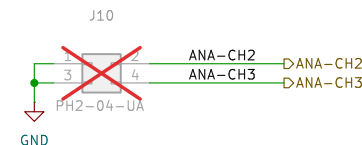


USB-C (Non-PD) Output

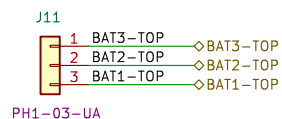


SPARE ADC INPUTS

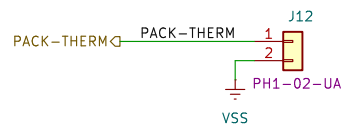
0 – 3.3V



Cell Connector



Pack Thermistor



GND Ref

Sheet: /Connections/
File: Connections.kicad_sch

Title:

Size: A4

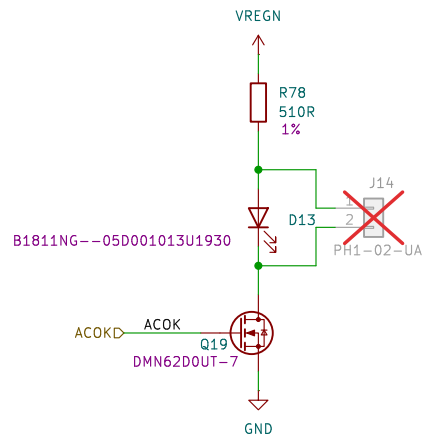
Date:

KiCad E.D.A. 9.0.4

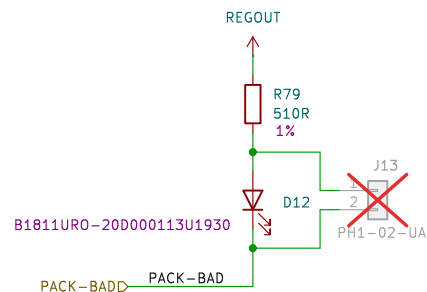
Rev:

Id: 9/10

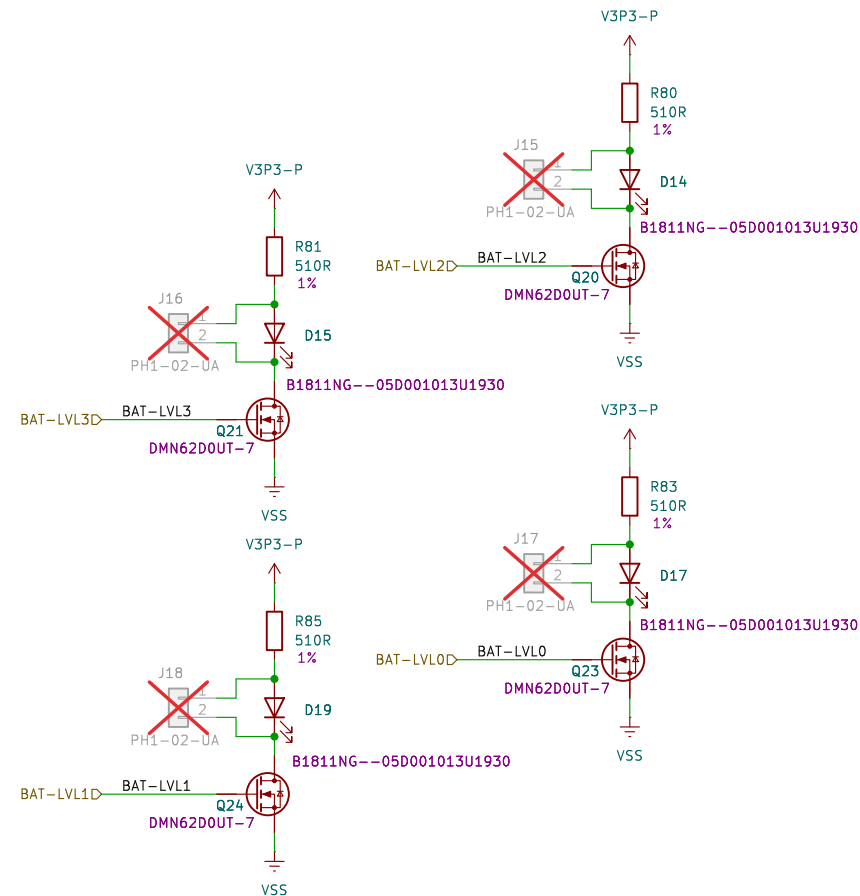
USB-C PD OK LED



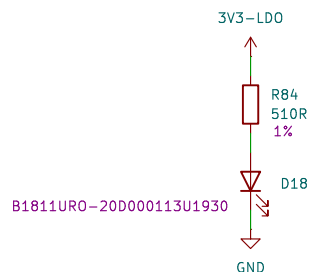
Pack Bad LED



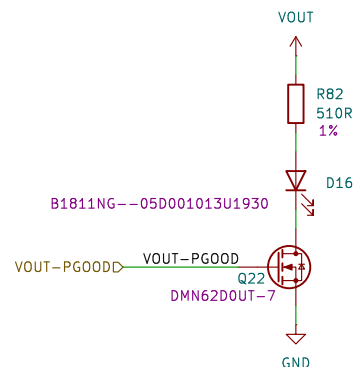
Pack Charge LEDs



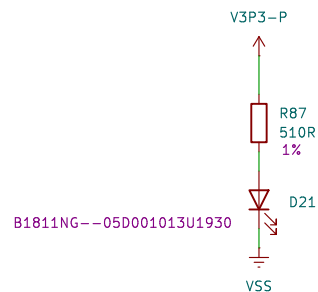
USB-C LDO GOOD



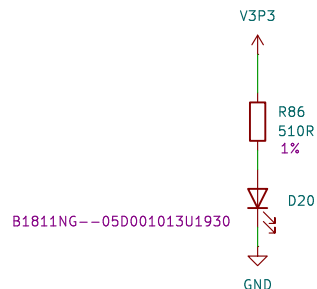
VOUT PGOOD



PACK V3P3 GOOD



V3P3 GOOD



Sheet: /Indicators/
File: Indicators.kicad_sch

Title:

Size: A4
KiCad E.D.A. 9.0.4

Date:

Rev:

Id: 10/10