

## Power Protection

File: pcb\_octohub4\_usbhubchip\_power\_protection.kicad\_sch



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**Hans Märki, Märki Informatik**

Sheet: /

File: pcb\_octohub4.kicad\_sch

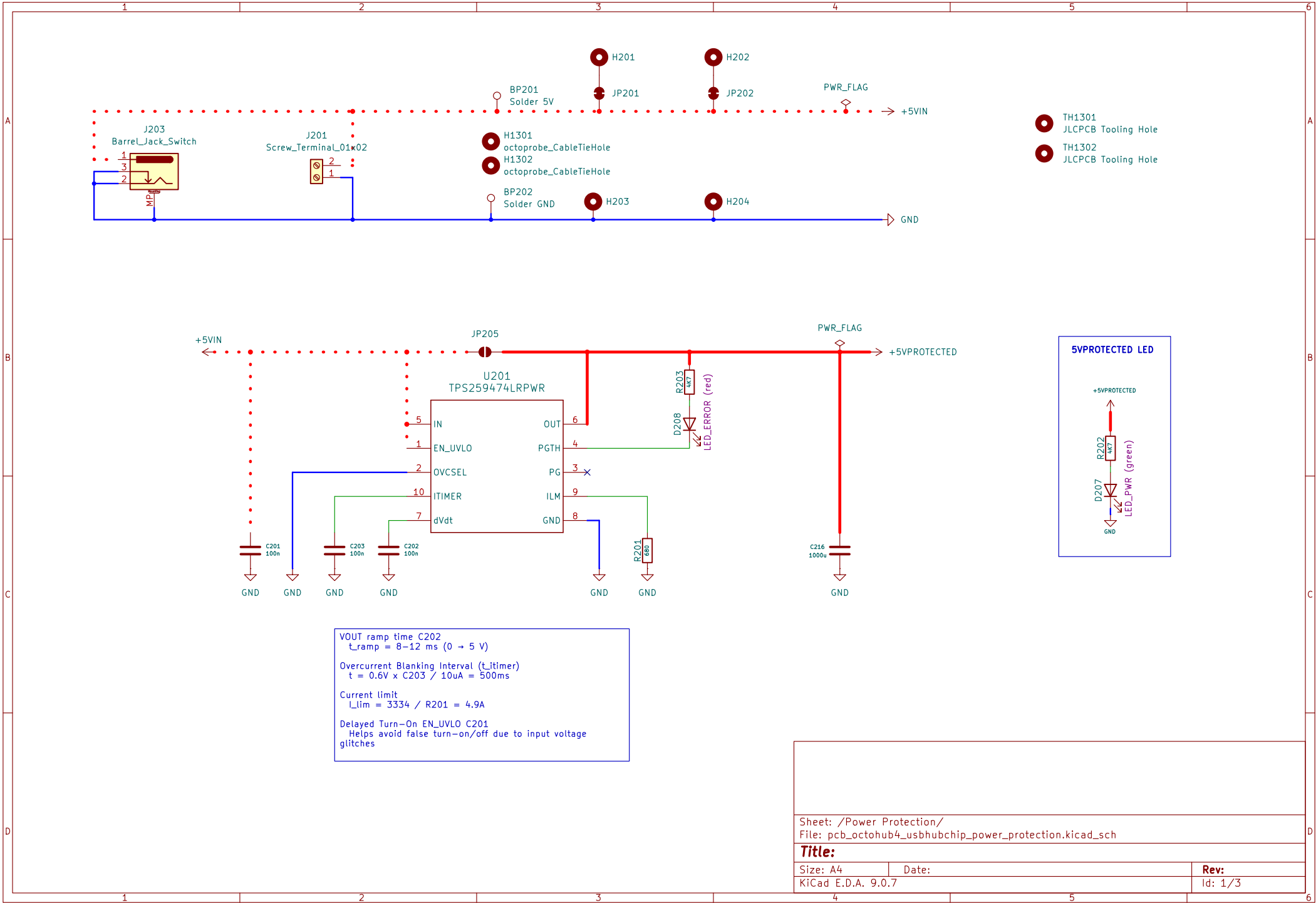
Title: Octohub4

Size: A4	Date: 2026-01-20
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KiCad E.D.A. 9.0.7

Rev: 0.1

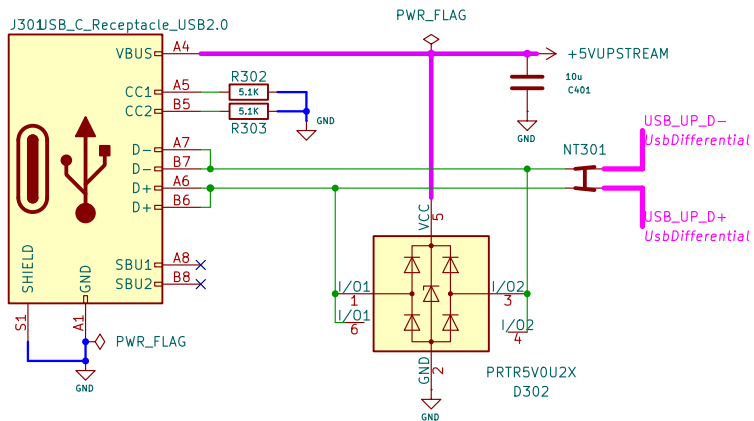
Id: 1/3



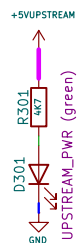
## USB C Female

### USB Type-C DATA

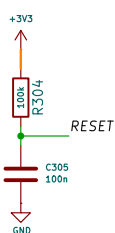
J301 USB\_C\_Receptacle\_USB2.0



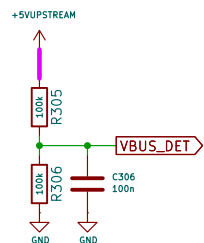
### UPSTREAM POWER (USBC)



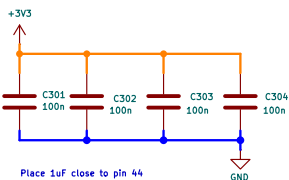
### Boot Sequence



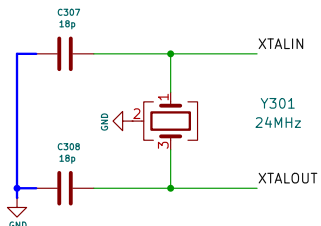
### VBUS\_DET



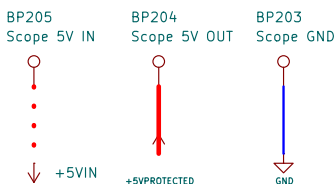
### Bypass Capacitors



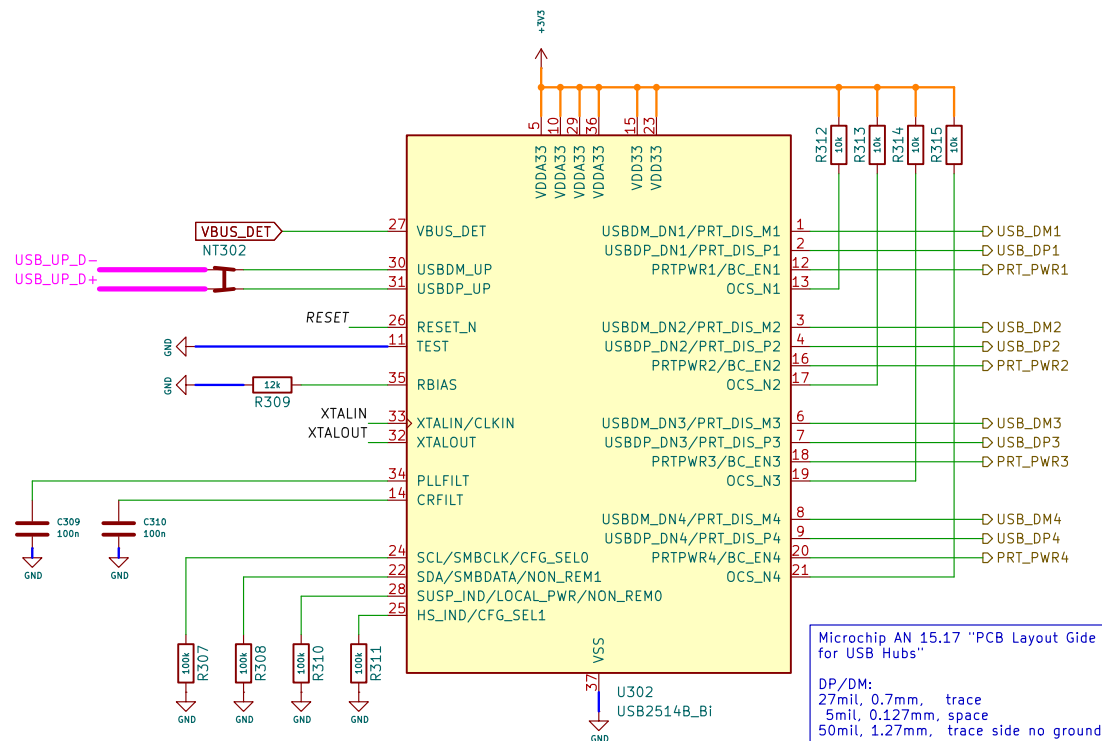
### Crystal



### Scope Pads



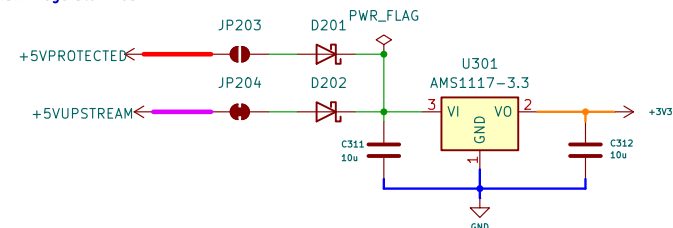
## Hub



Microchip AN 15.17 "PCB Layout Guide for USB Hubs"

DP/DM:  
27mil, 0.7mm, trace  
5mil, 0.127mm, space  
50mil, 1.27mm, trace side no ground

### Main Regulator Hub



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Sheet: /USB Hub Chip/

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Title: Octohub4

Size: A4

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Rev: 0.1

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