

# Mycroft Mark 2

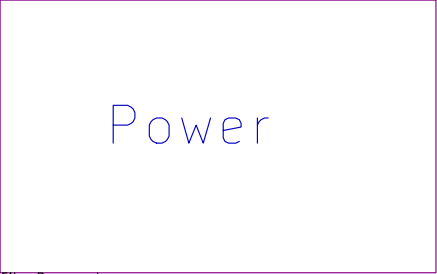
Sheet: xmos



File: xmos.sch

USB

Sheet: Power



File: Power.sch

Sheet: RaspberryPi



File: RaspberryPi.sch

USB

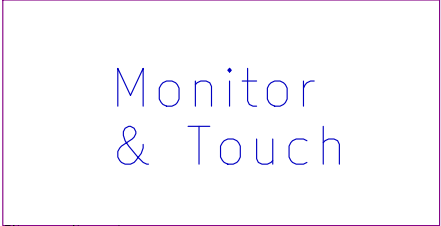
Sheet: AudioAmp



File: AudioAmp.sch

MIPI DSI  
Connector

Sheet: Monitor



File: monitor.sch

- H1 MountingHole
- H2 MountingHole
- H3 MountingHole
- H4 MountingHole



**Mycroft**

Sheet: /  
File: Mycroft - Mark 2.sch

**Title:**

Size: A Date: 2020-07-10  
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**Rev: 0.59**  
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# Power

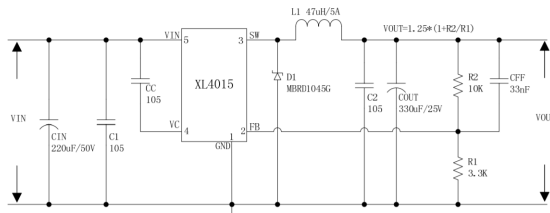
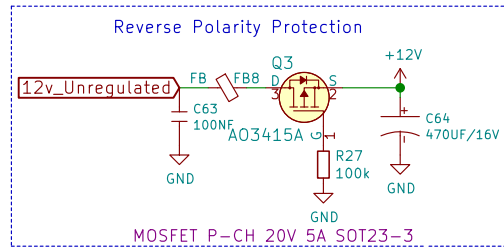
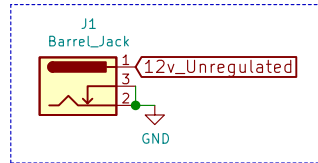


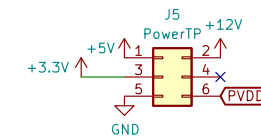
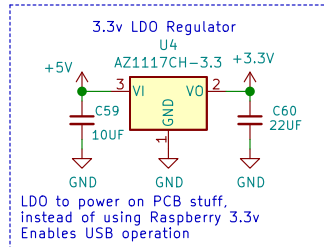
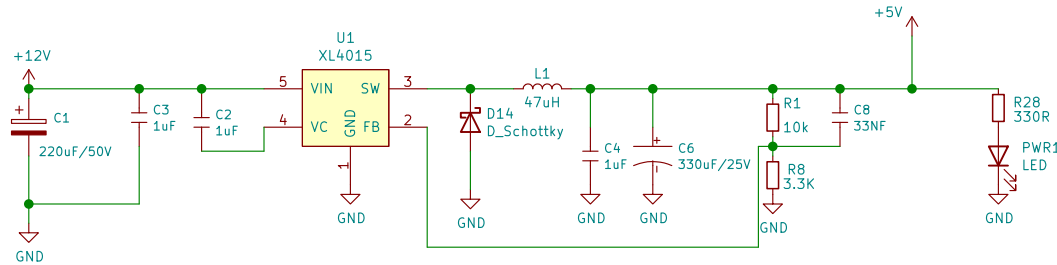
Figure4. XL4015 Typical Application Circuit (VIN=8V~36V, VOUT=5V/5A)

## Reference Diagram



VIN=8V ~ 36V, VOUT=5V/5A

FB Resistor  
 $VOUT=1.25 \cdot (1 + R2/R1)$



Power Converter  
**Mycroft**

Sheet: /Power/  
File: Power.sch

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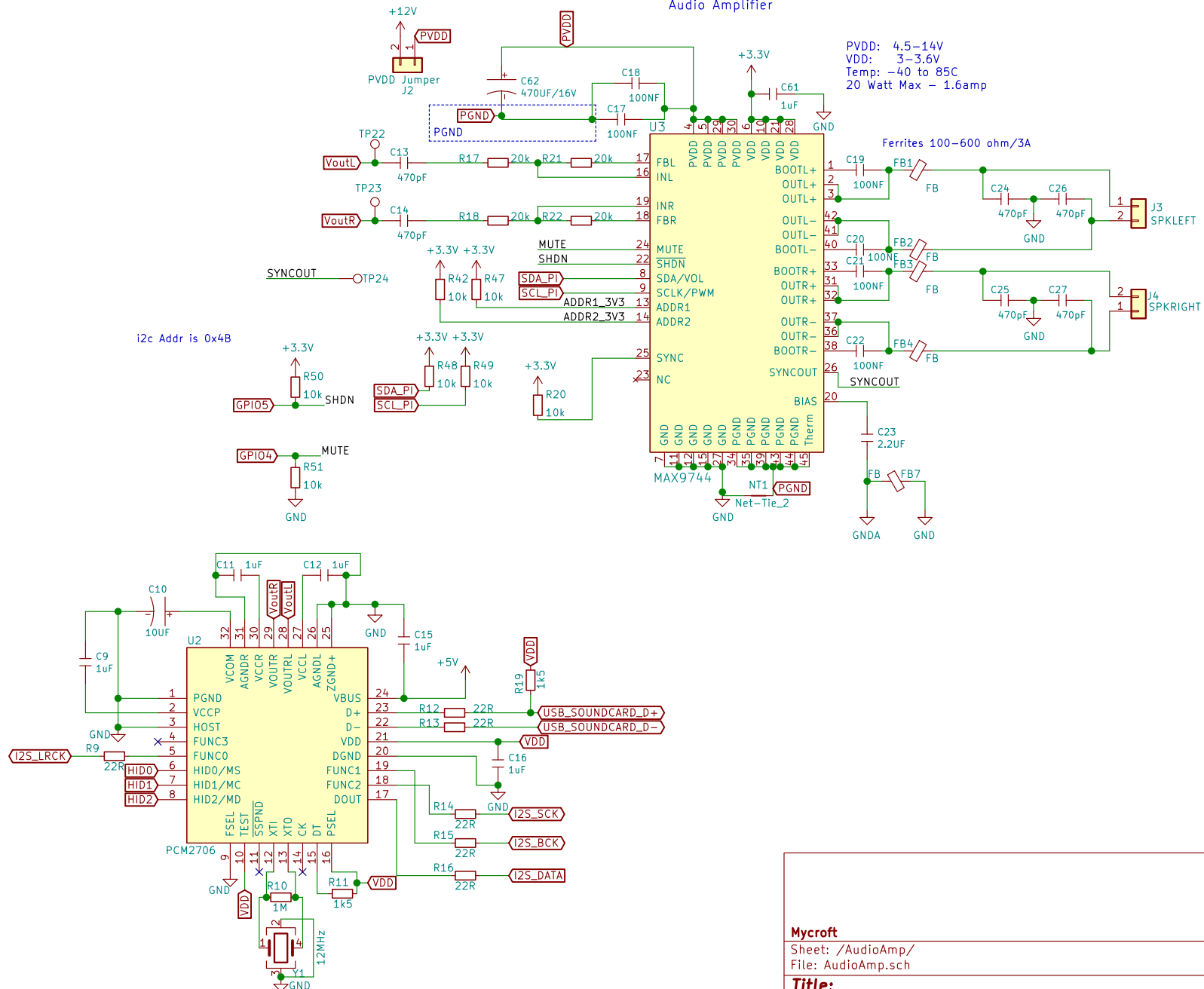
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# Audio Amp & USB Sound Card

## Audio Amplifier

PVDD: 4.5-14V  
VDD: 3-3.6V  
Temp: -40 to 85C  
20 Watt Max - 1.6amp

i2c Addr is 0x4B



TODO: Add in LINE IN for testing purposes  
TODO: LINE OUT

**Mycroft**

Sheet: /AudioAmp/  
File: AudioAmp.sch

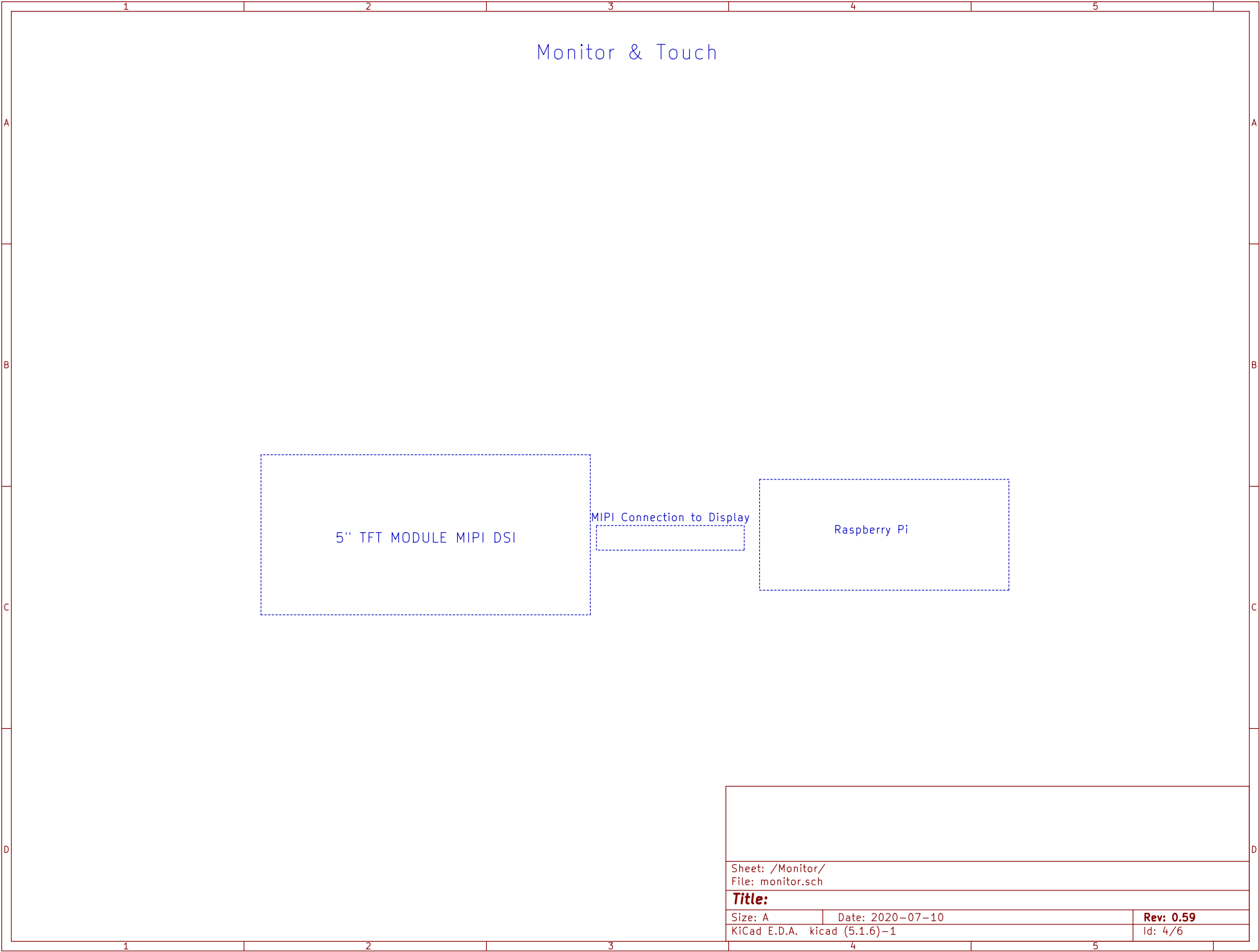
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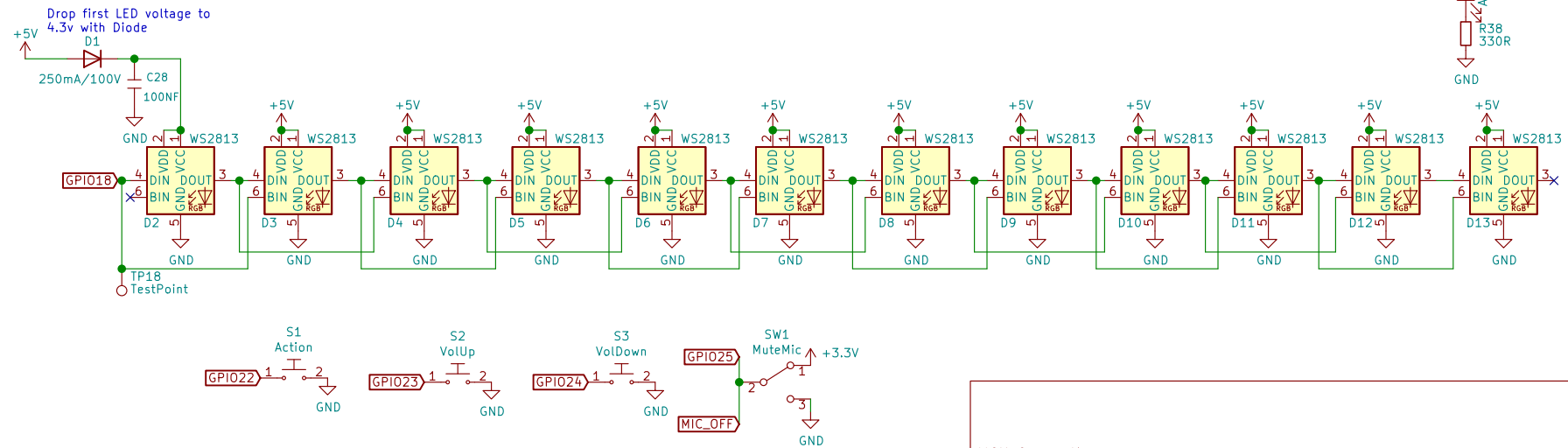
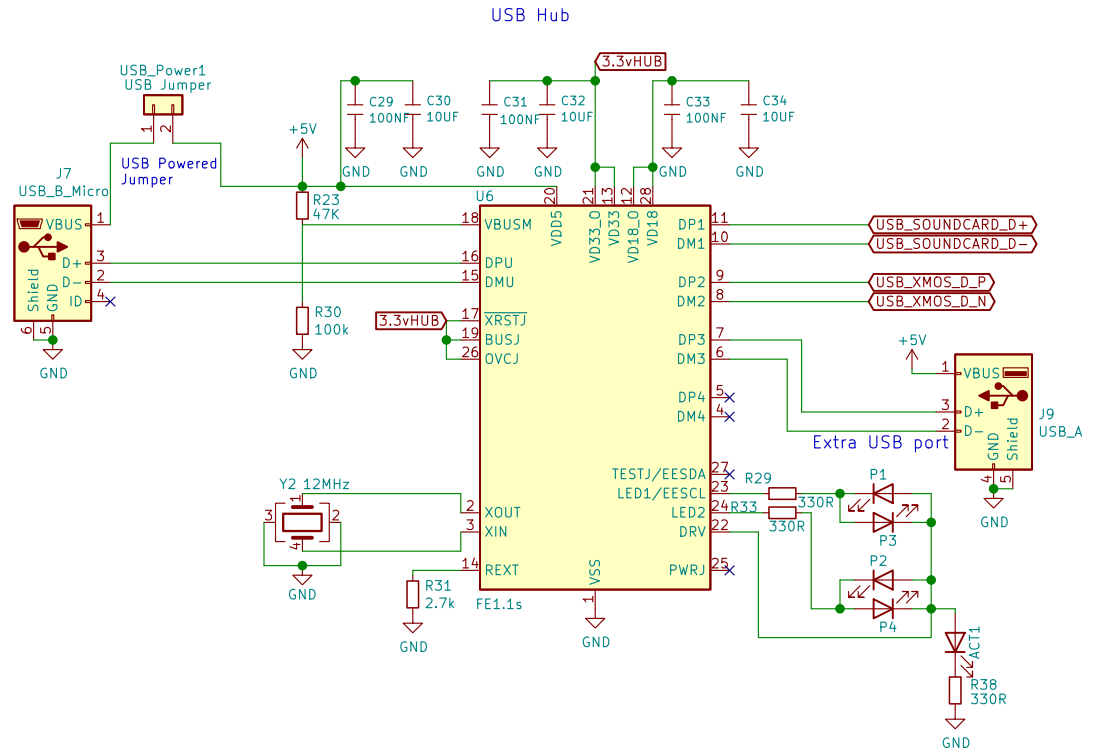
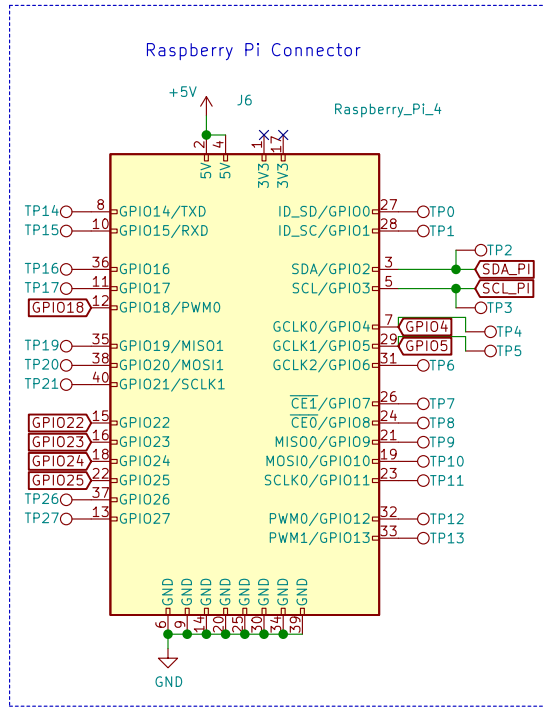
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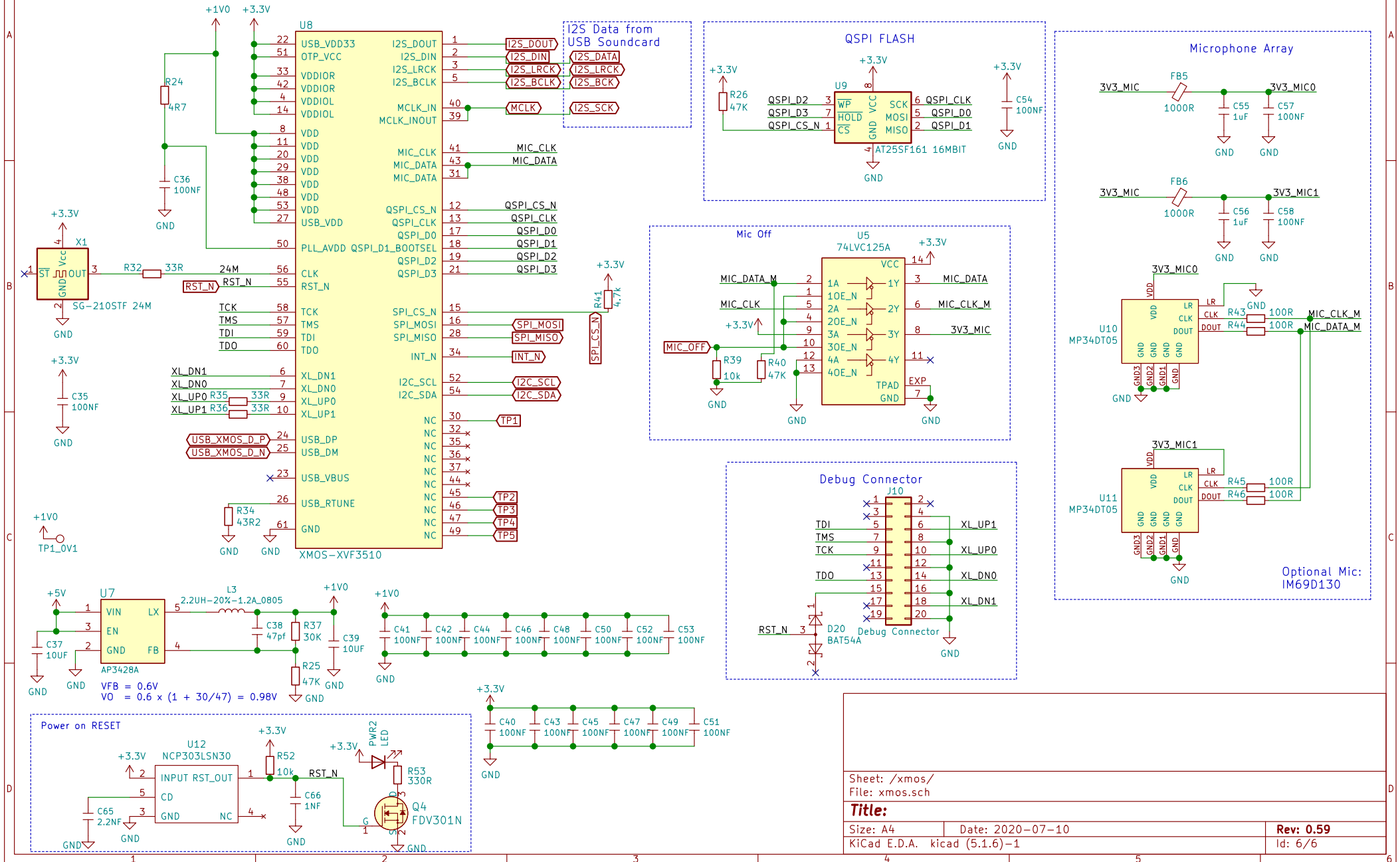
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Size: A	Date: 2020-07-10	Rev: 0.59
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# Raspberry Pi & USB Hub



MCU Connections	
<b>Mycroft</b>	
Sheet: /RaspberryPi/	
File: RaspberryPi.sch	
<b>Title: Raspberry Pi</b>	
Size: A	Date: 2020-07-10
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# XMOS Audio Processor



Sheet: /xmos/ File: xmos.sch		
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