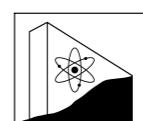


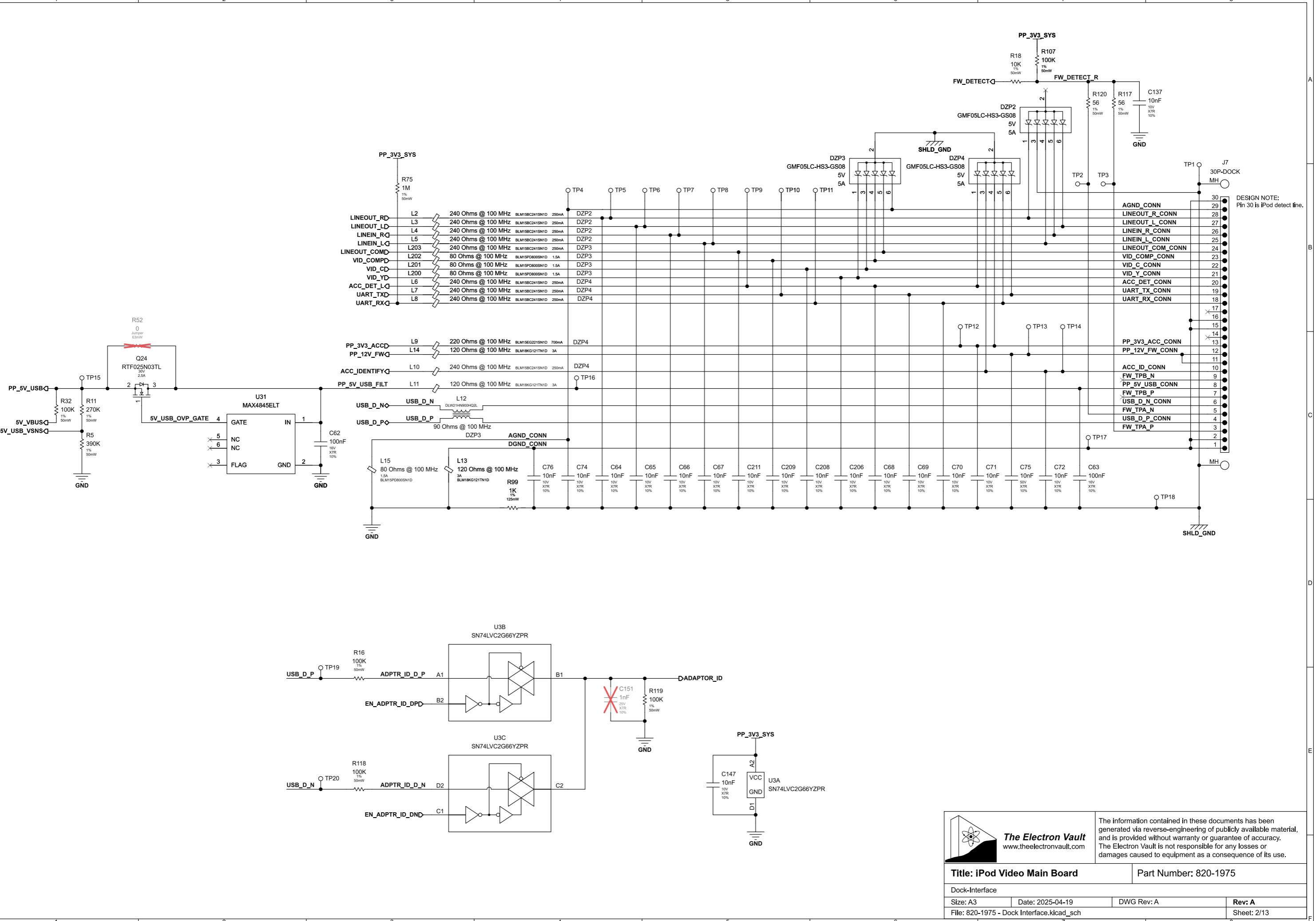
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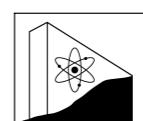
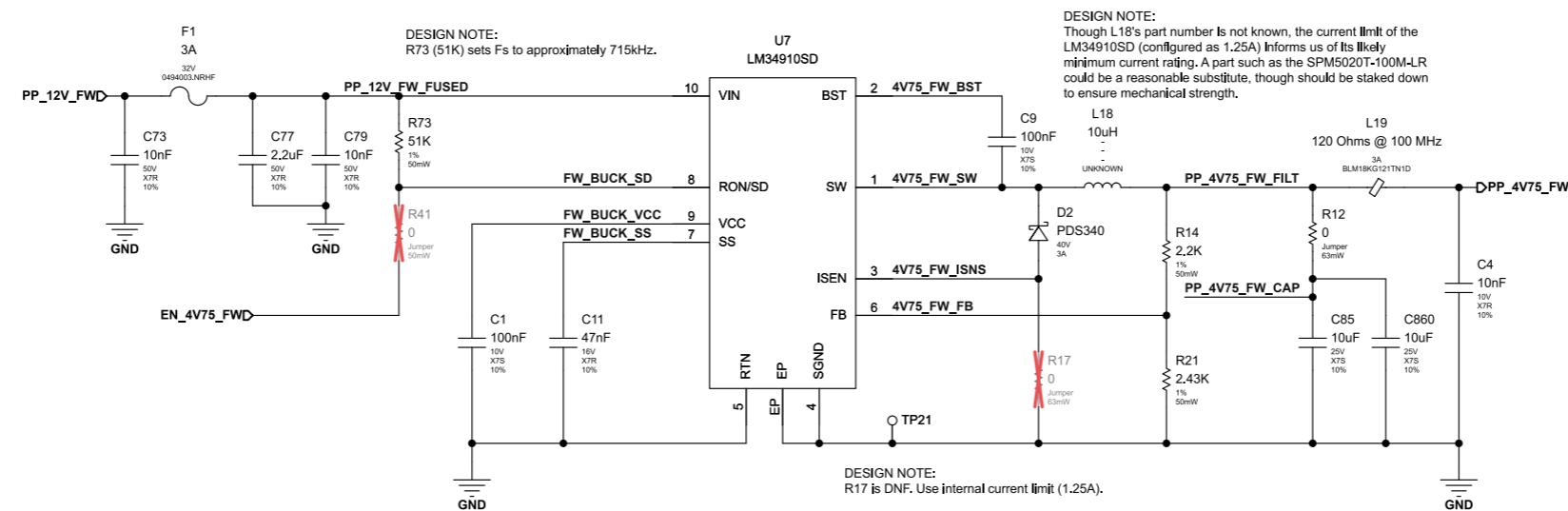


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Title: iPod Video Main Board **Part Number: 820-1975**

Root		
Size: A3	Date: 2025-04-19	DWG Rev: A
File: 820-1975.kicad_sch		Sheet: 1/13





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Title: iPod Video Main Board

Part Number: 820-1975

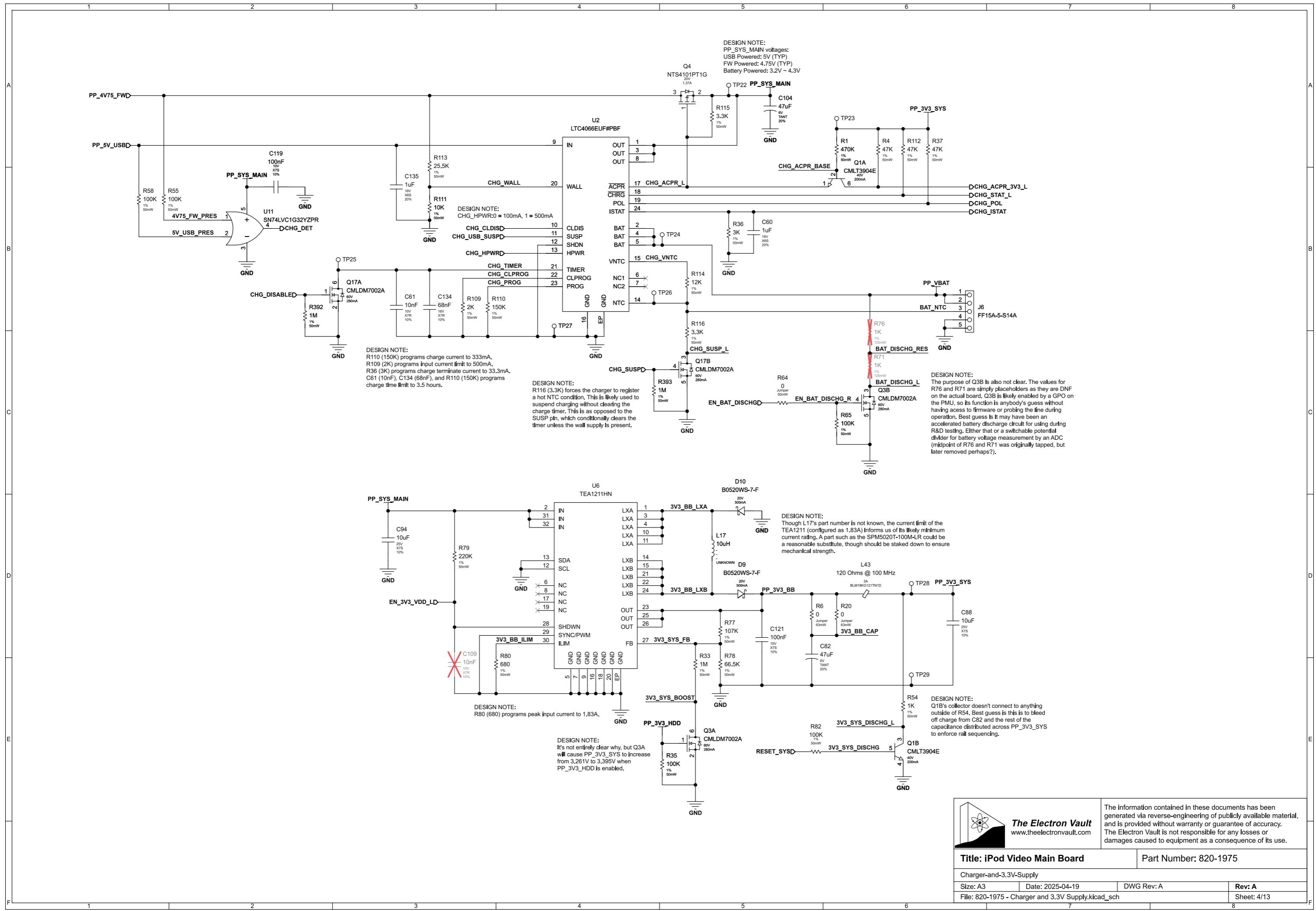
FireWire-Supply

Size: A3 Date: 2025-04-19 DWG Rev: A

File: 820-1975 - FireWire Supply.kicad_sch

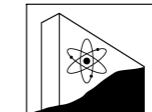
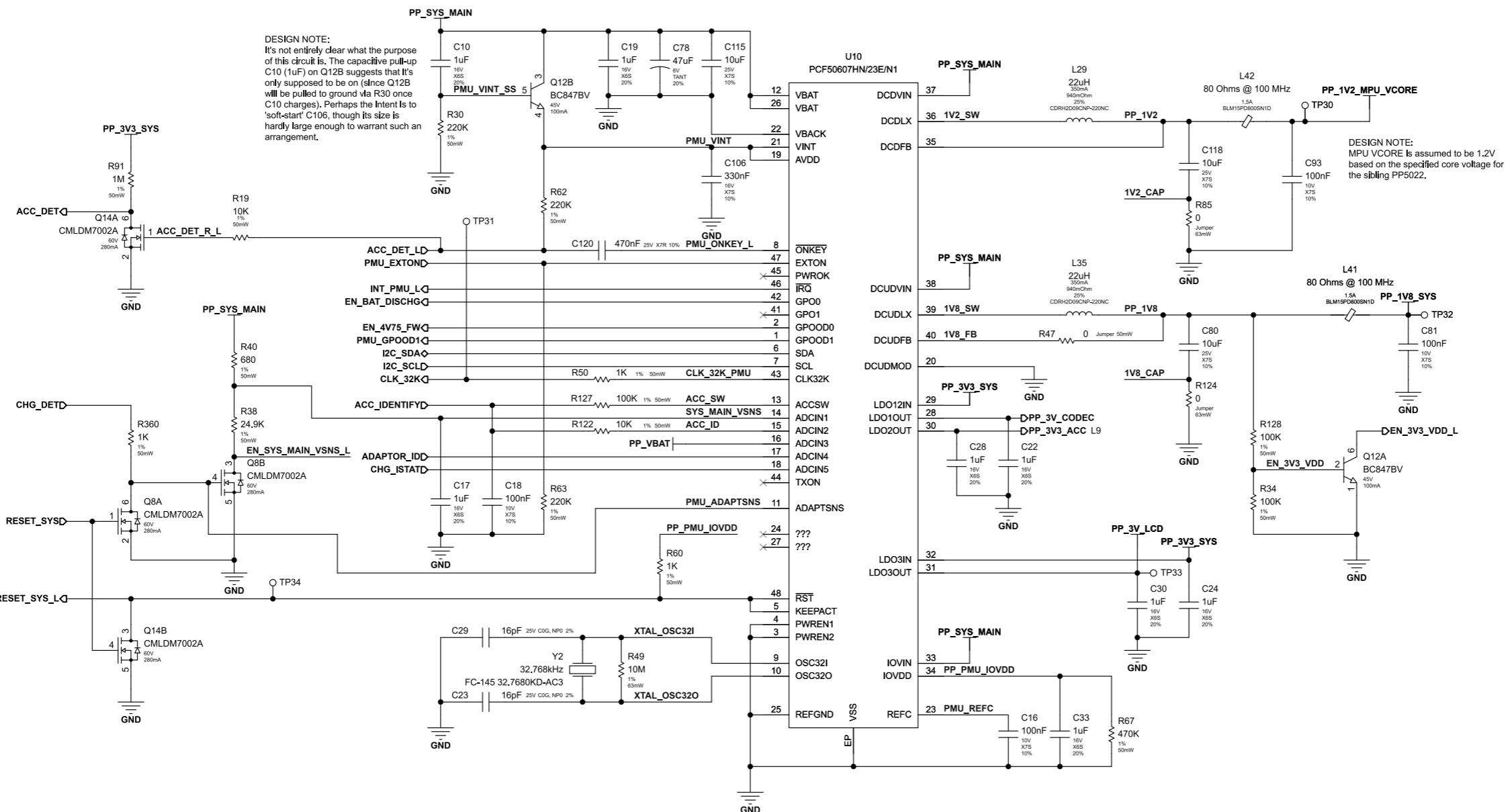
Rev: A

Sheet: 3/13



DISCLAIMER:

The pinout of the PCF50607 is provided without guarantee. It has been speculatively assembled using context from surrounding circuits, and also similar NXP parts - PCF50605/6 and PCF50633.



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Title: iPod Video Main Board

Part Number: 820-1975

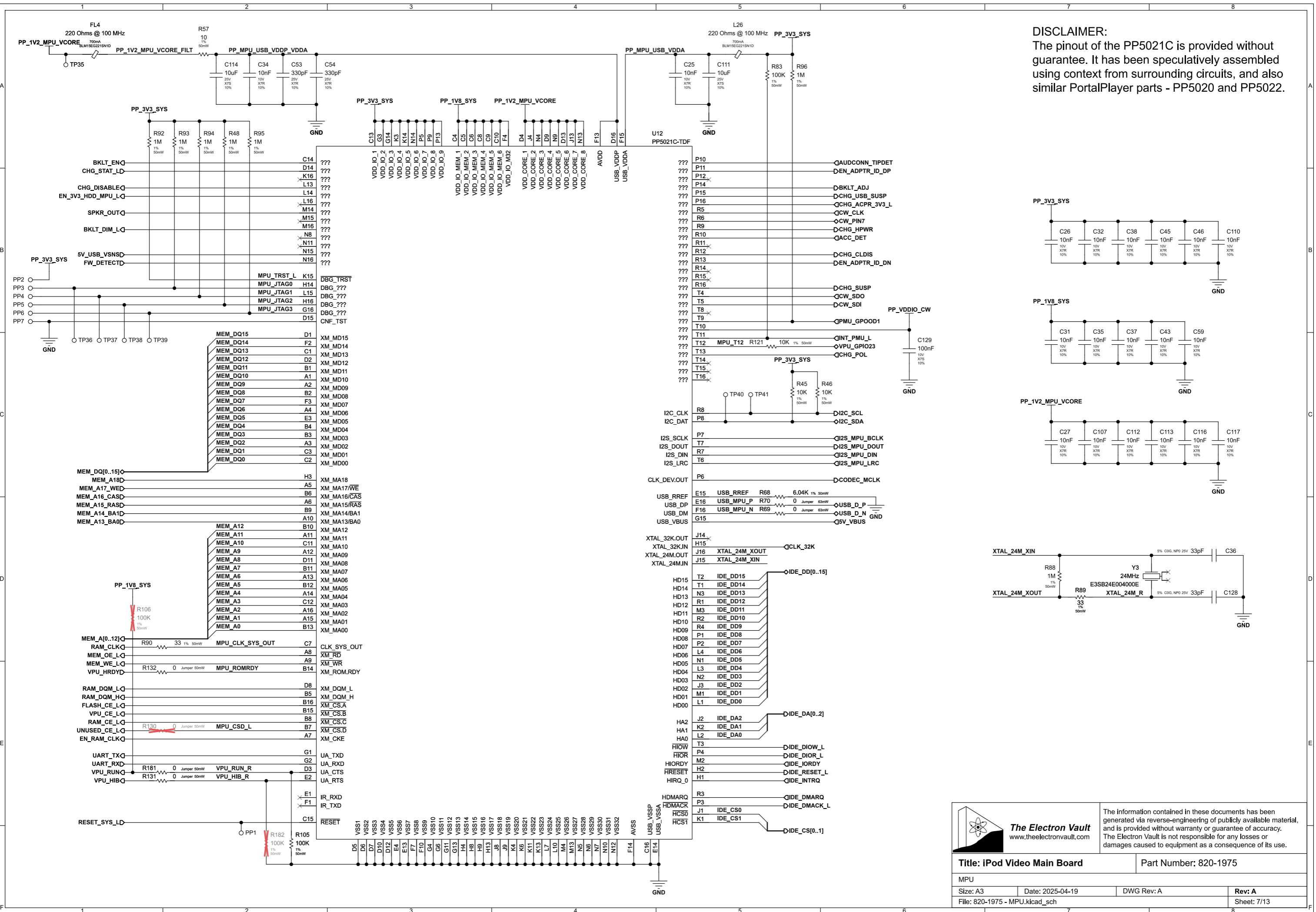
PMU

Size: A3 Date: 2025-04-19 DWG Rev: A

WG Rev: A

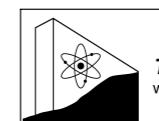
File: 820-1975 - PMU.kicad_sch

Sheet: 6/13



DISCLAIMER:

The pinout of the PP5021C is provided without guarantee. It has been speculatively assembled using context from surrounding circuits, and also similar PortalPlayer parts - PP5020 and PP5022.



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Title: iPod Video Main Board

Part Number: 820-1975

MPU

Size: A3 Date: 2025-04-19 DWG Rev: A

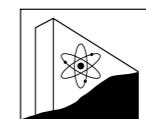
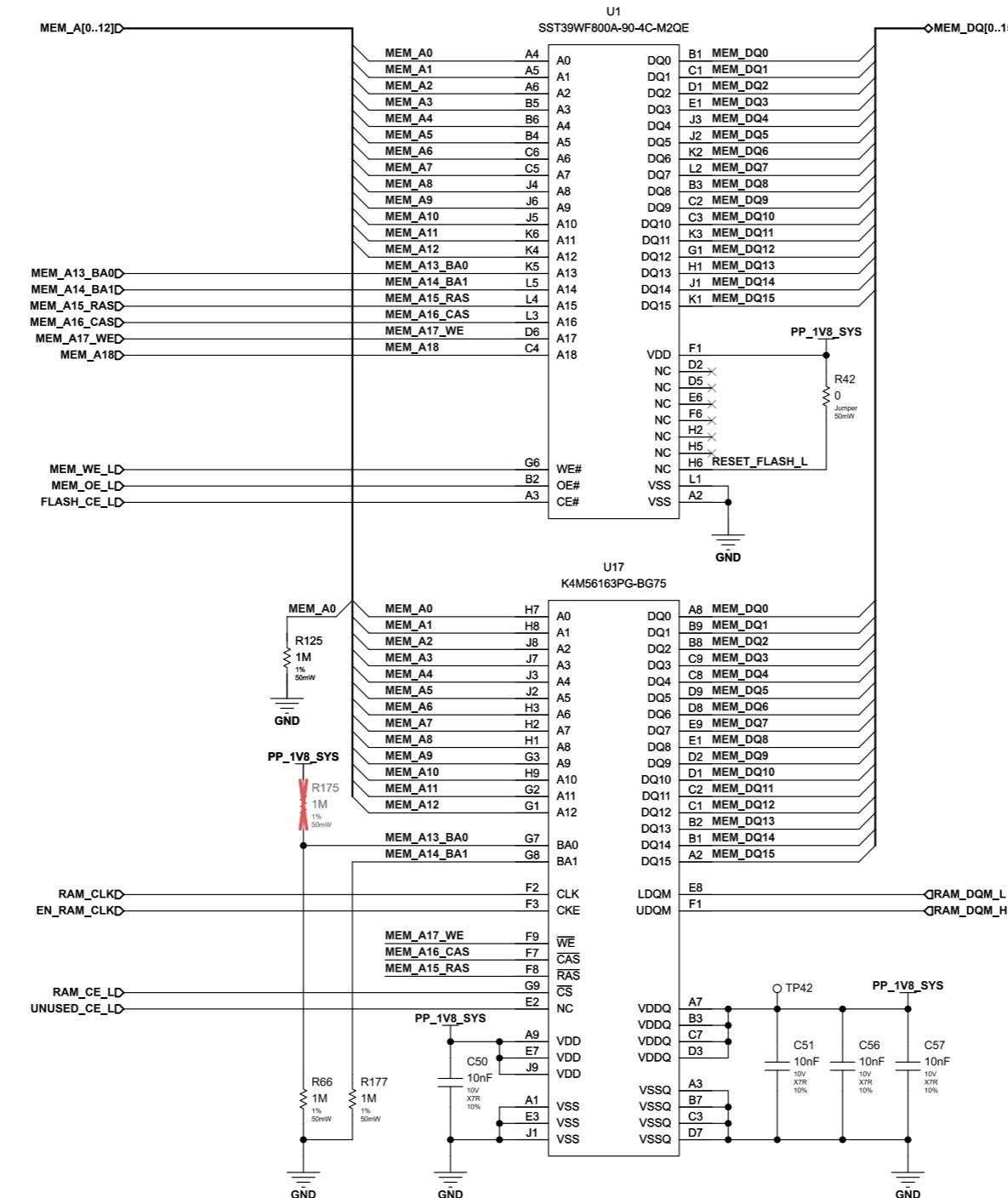
1000

File: 820-1975 - MPU.kicad_sch

Sheet: 7

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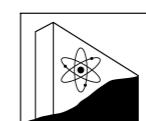
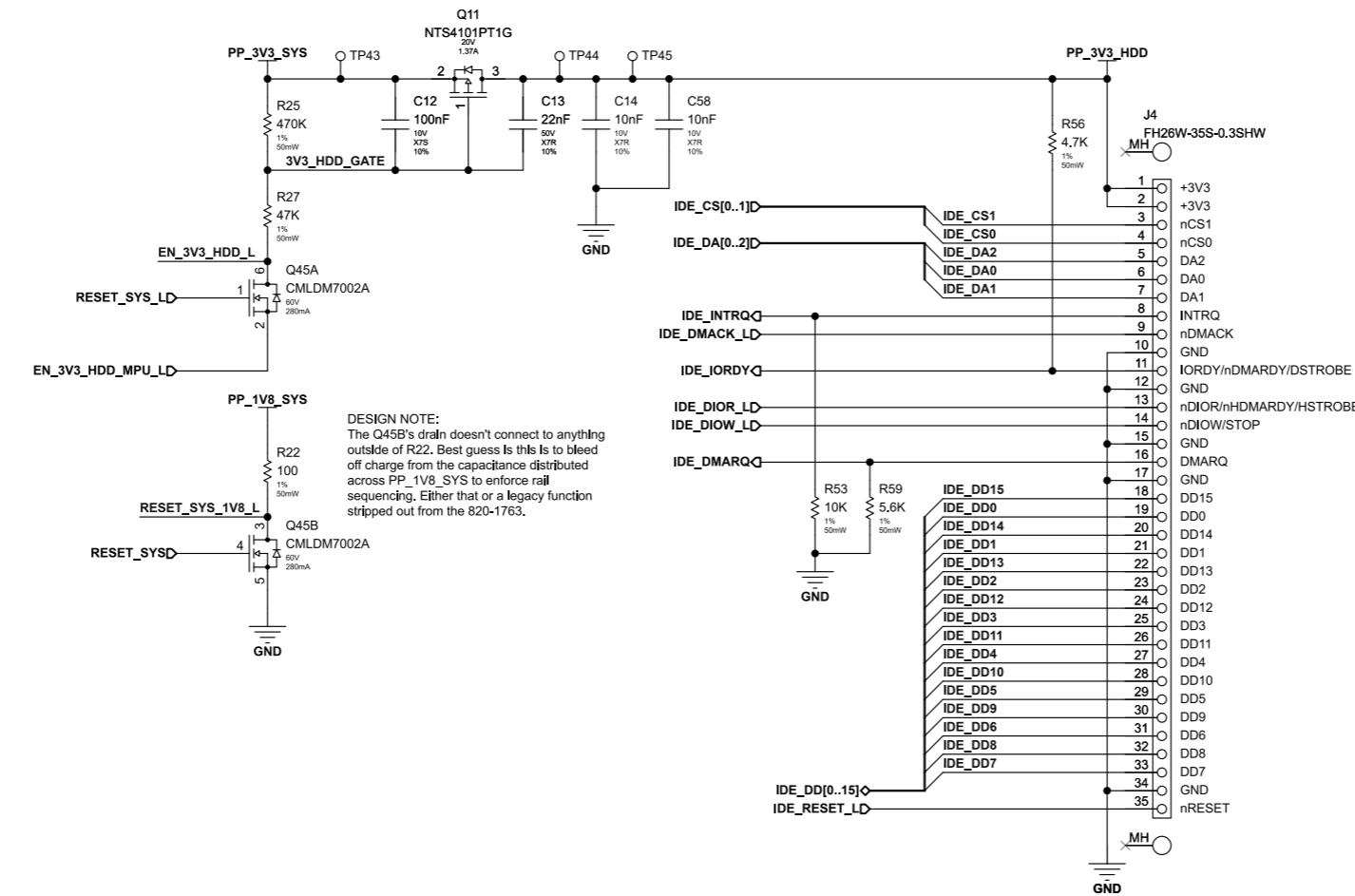
Title: iPod Video Main Board

Part Number: 820-1975

Flash-and-SDRAM

Size: A3 Date: 2025-04-19 DWG Rev: A
File: 820-1975 - Flash and SDRAM.kicad_sch

Rev: A Sheet: 8/13



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Title: iPod Video Main Board

Part Number: 820-1975

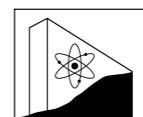
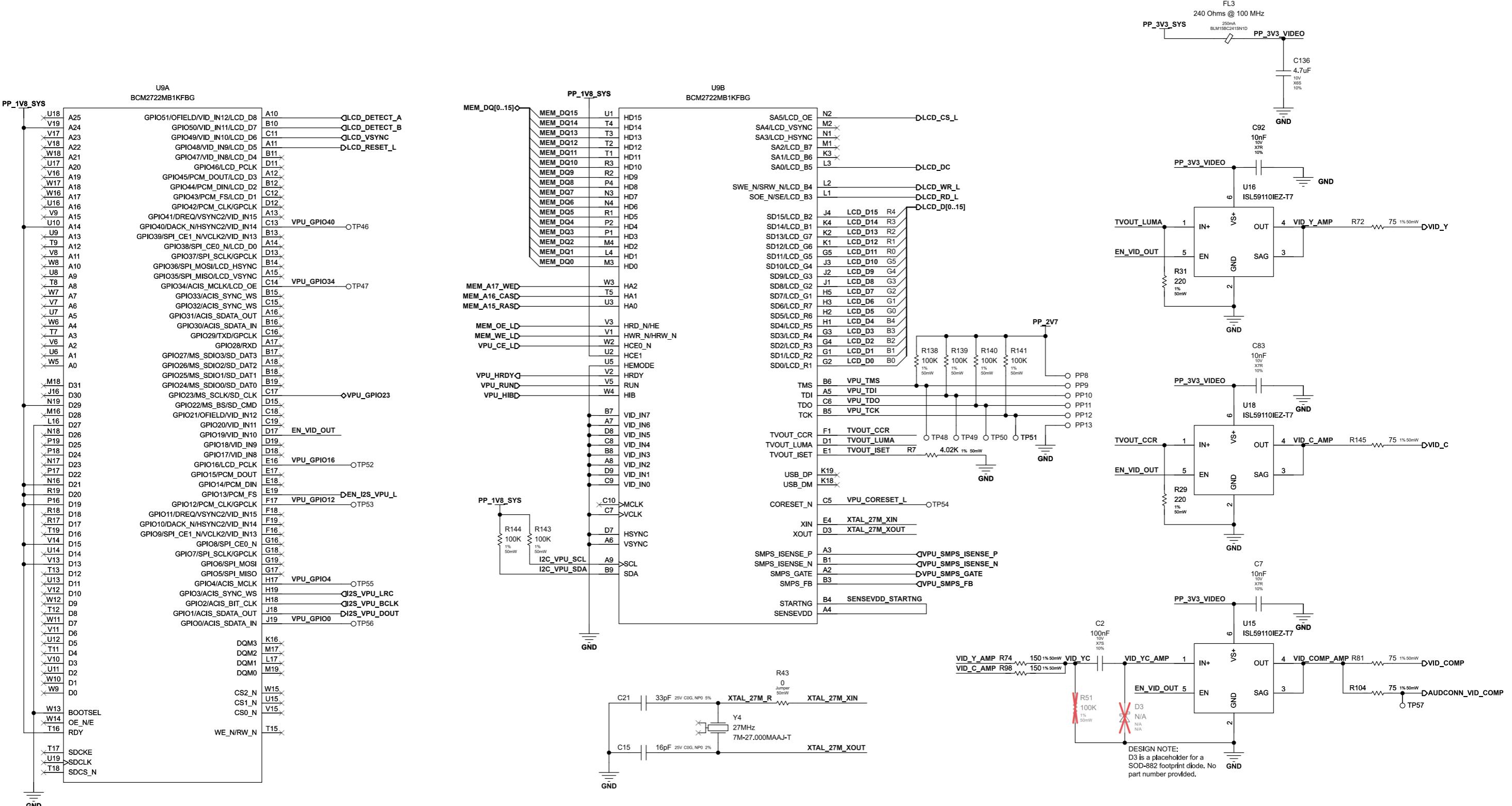
Hard-Disk

Size: A3 Date: 2025-04-19 DWG Rev: A

File: 820-1975 - Hard Disk.kicad_sch

Rev: A

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Title: iPod Video Main Board Part Number: 820-1975

VPU

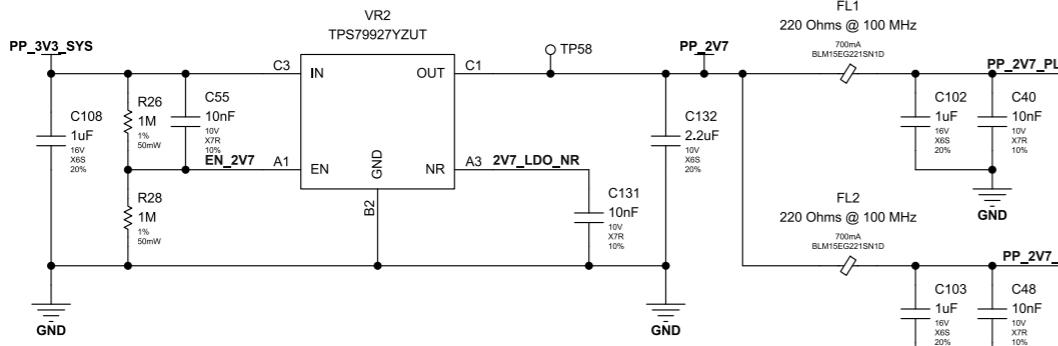
Size: A3	Date: 2025-04-19	DWG Rev: A	Rev: A
File: 820-1975 - VPU.kicad_sch			Sheet: 10/13

A

A

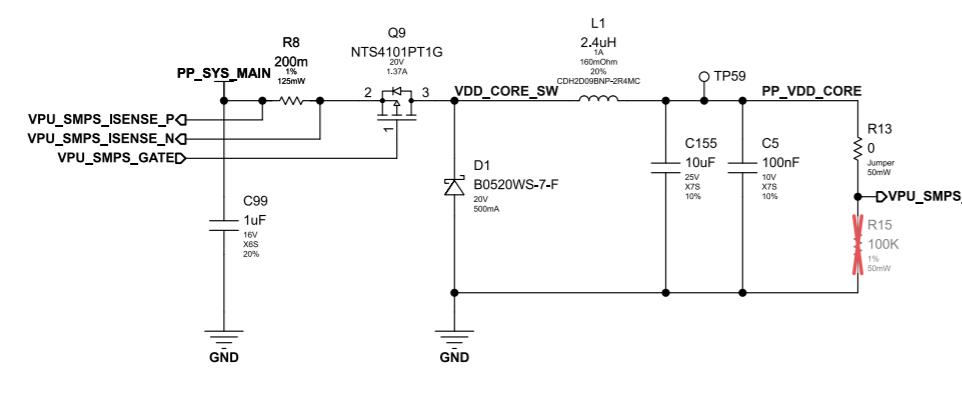
B

B



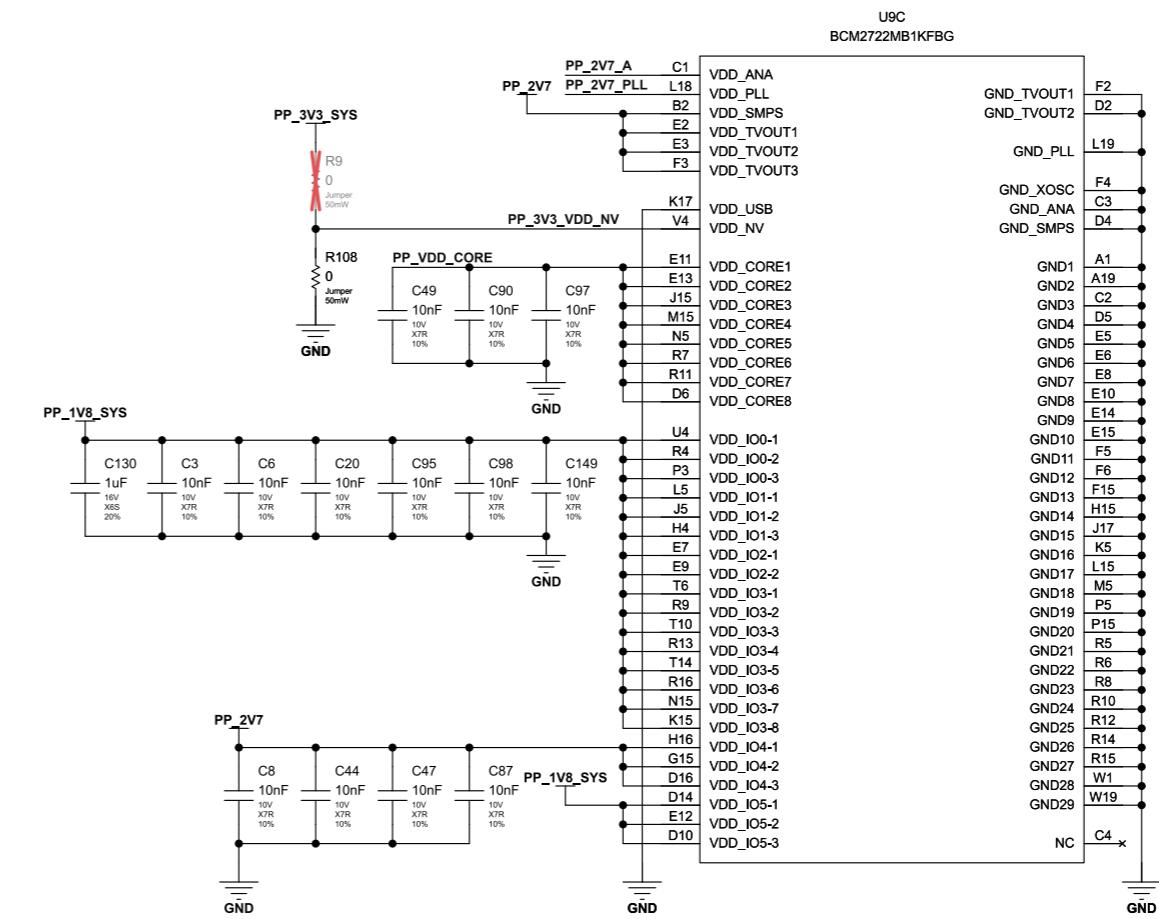
C

C



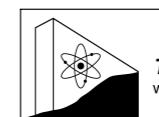
D

D



E

E



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Title: iPod Video Main Board

Part Number: 820-1975

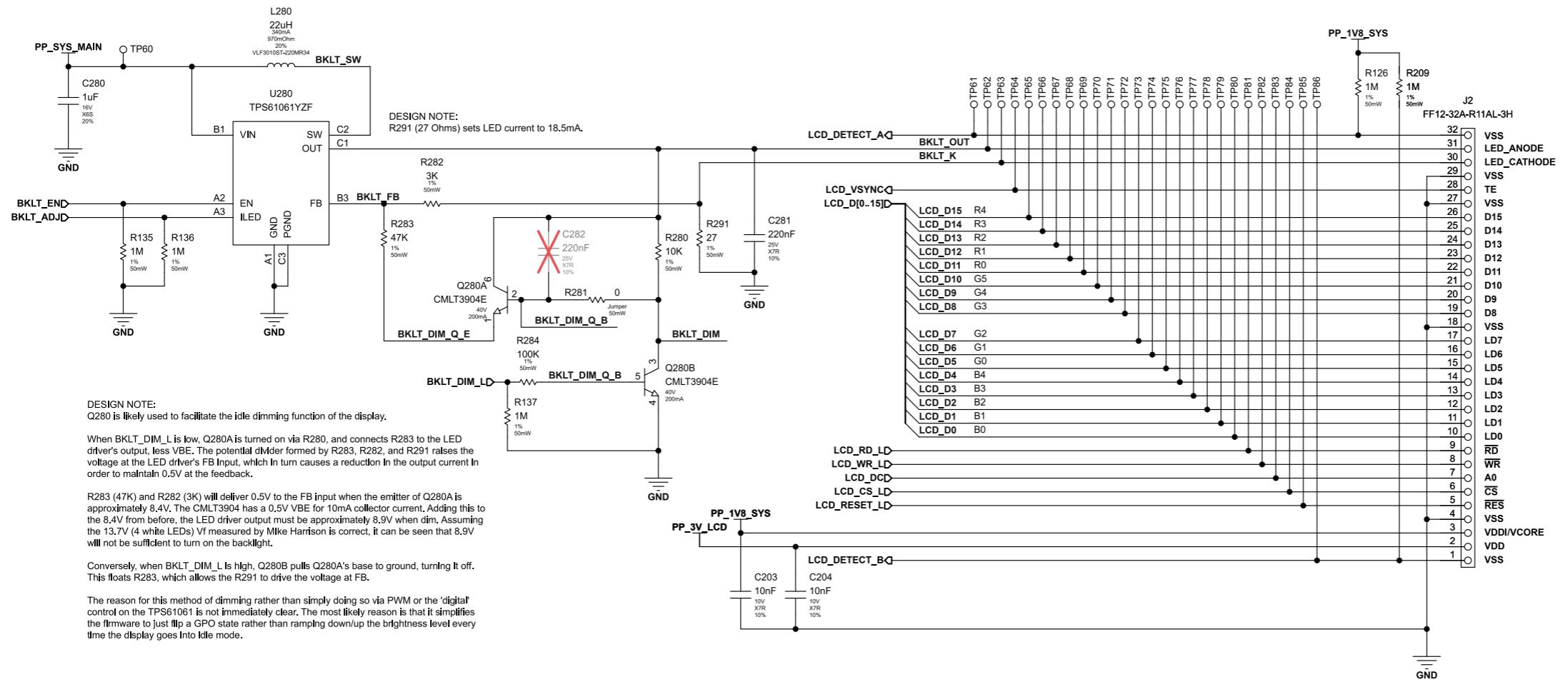
VPU-Power

Size: A3 Date: 2025-04-19 DWG Rev: A

File: 820-1975 - VPU Power.kicad_sch

Rev: A

Sheet: 11/13



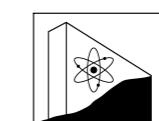
Pinout credit - Mike Harrison @mikeselectrcstuff
<http://www.electrictuff.co.uk/ipodlcd.html>

One small correction to the pinout however. The WR and RS/CD pins should be swapped, based on the fanout of the display controller to the LCD FPC.

LCD Controller is likely Epson S1D19122.

Pins shorted on LCD FPC:
 1, 4, 18, 27, 29, 32

Pin 1 and Pin 32 go to the VPU. Given the 1M pull-ups on both, these are likely active-low detect signals, which are grounded when the LCD FPC is seated correctly.



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Title: iPod Video Main Board

Part Number: 820-1975

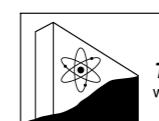
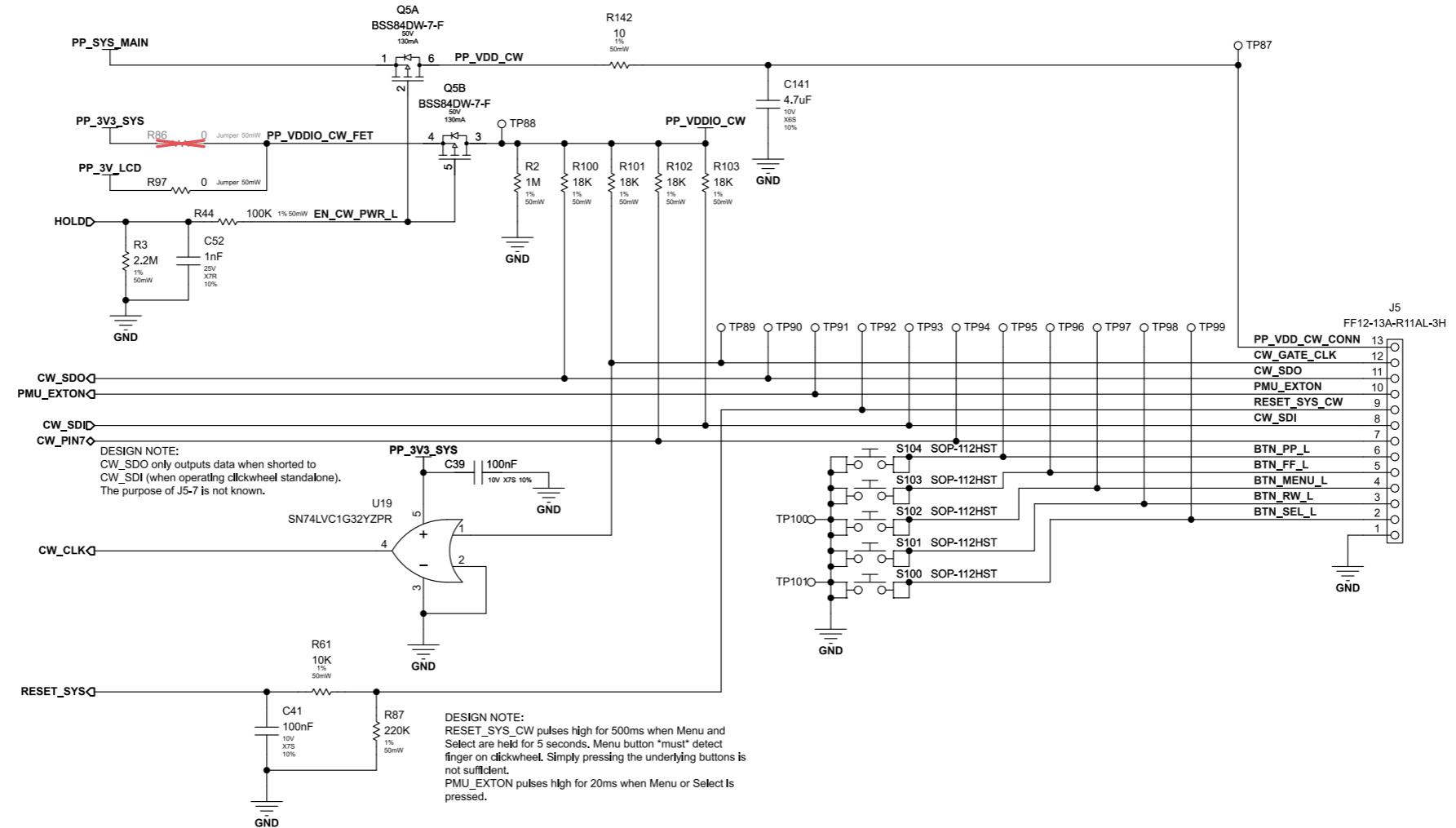
LCD

Size: A3 Date: 2025-04-19 DWG Rev: A

File: 820-1975 - LCD.kicad_sch

Rev: A

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Title: iPod Video Main Board

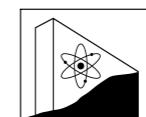
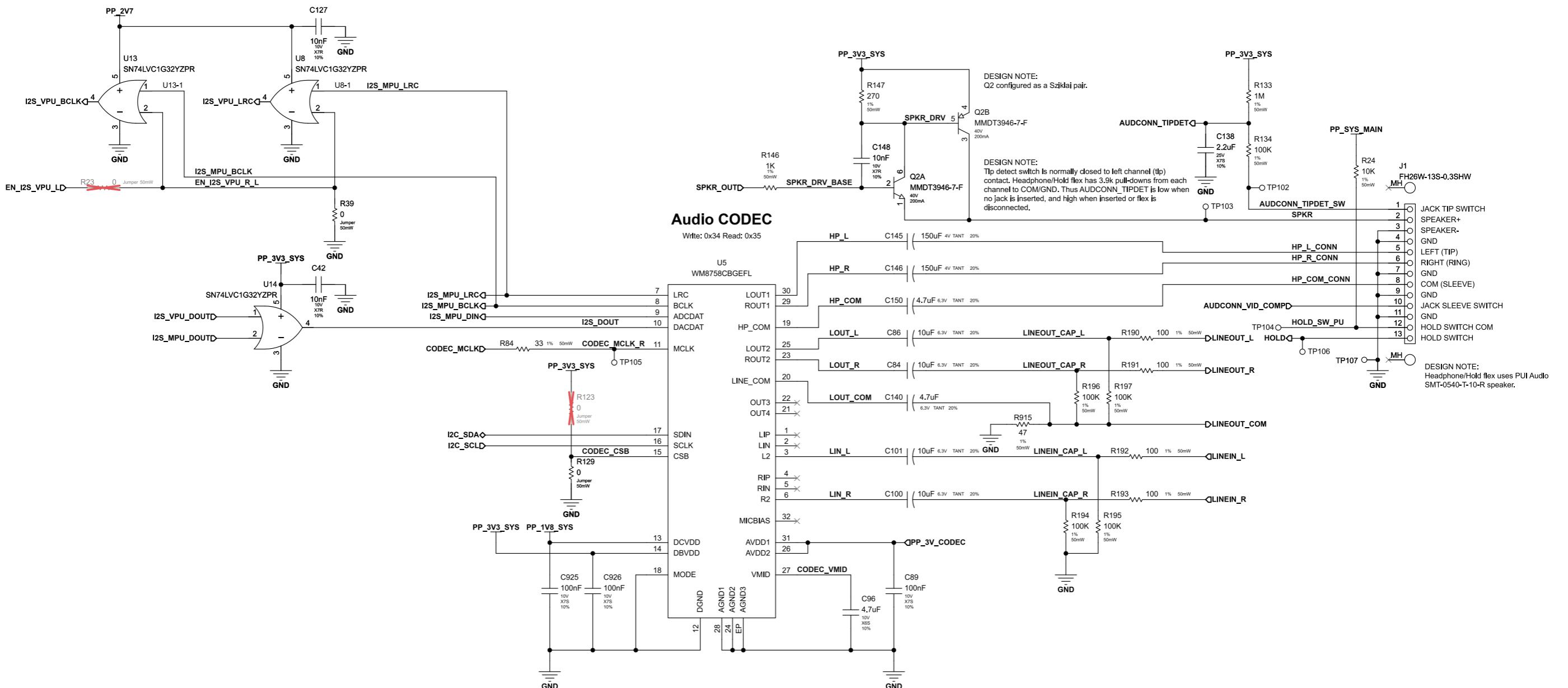
Part Number: 820-1975

Click-Wheel

Size: A3 Date: 2025-04-19 DWG Rev: A

File: 820-1975 - Click Wheel.kicad_sch

Rev: A Sheet: 13/13



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Title: iPod Video Main Board	Part Number: 820-1975		
CODEC			
Size: A3	Date: 2025-04-19	DWG Rev: A	Rev: A
File: 820-1975 - CODEC.kicad_sch		Sheet: 14/13	