

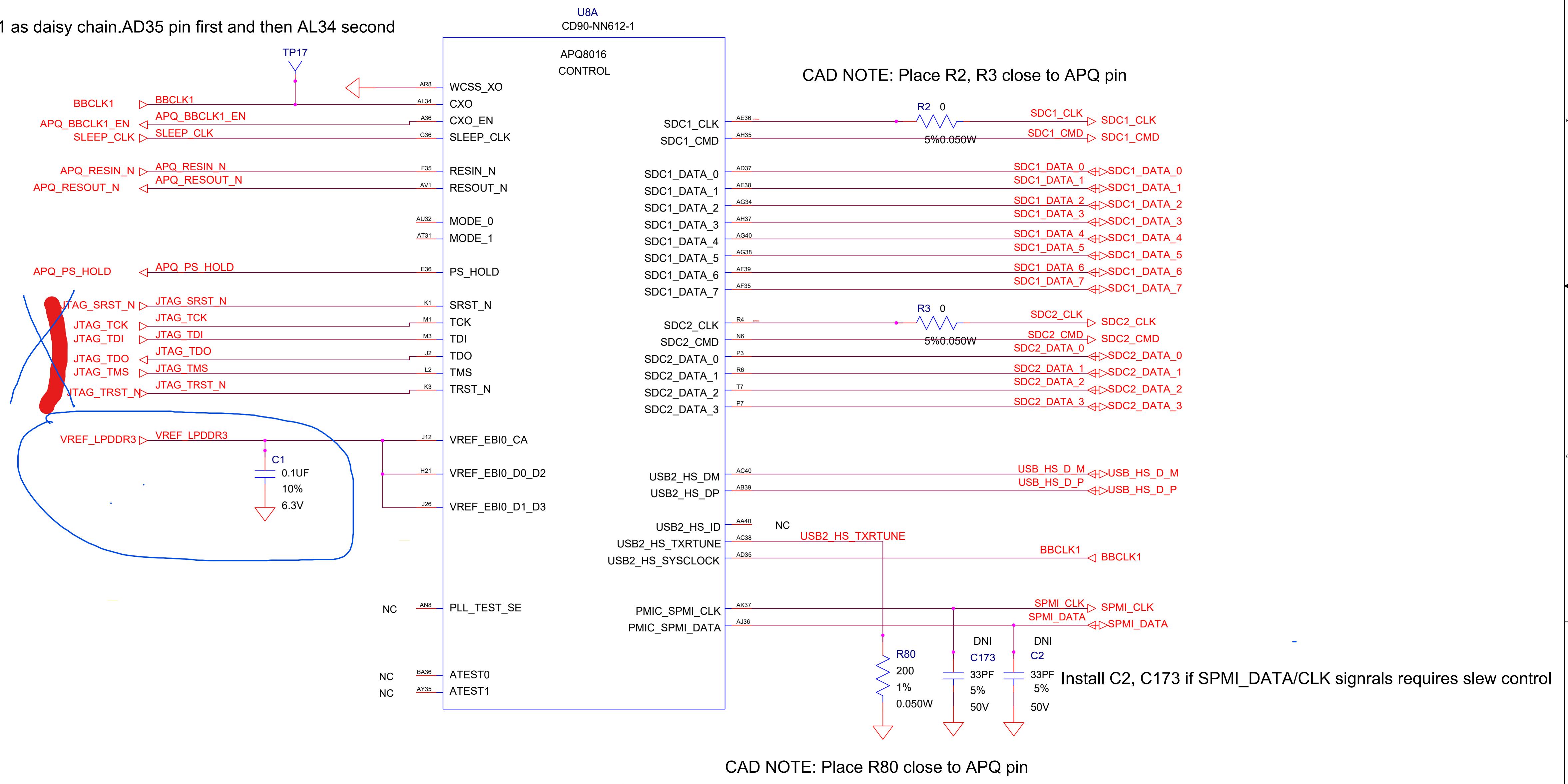
DragonBoard410c

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DragonBoard410c		
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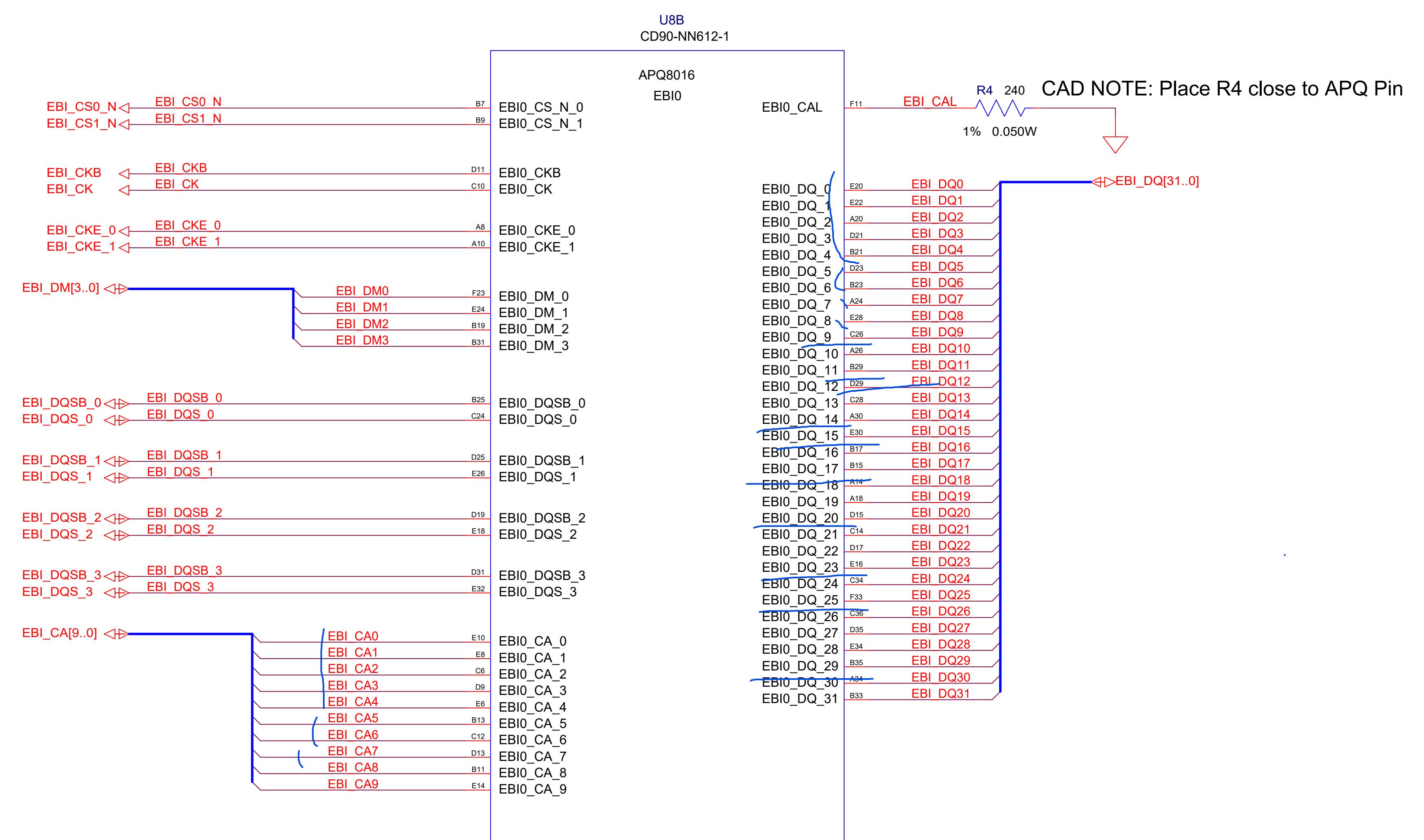
APQ8016 - CONTROL

Route BBCLK1 as daisy chain. AD35 pin first and then AL34 second

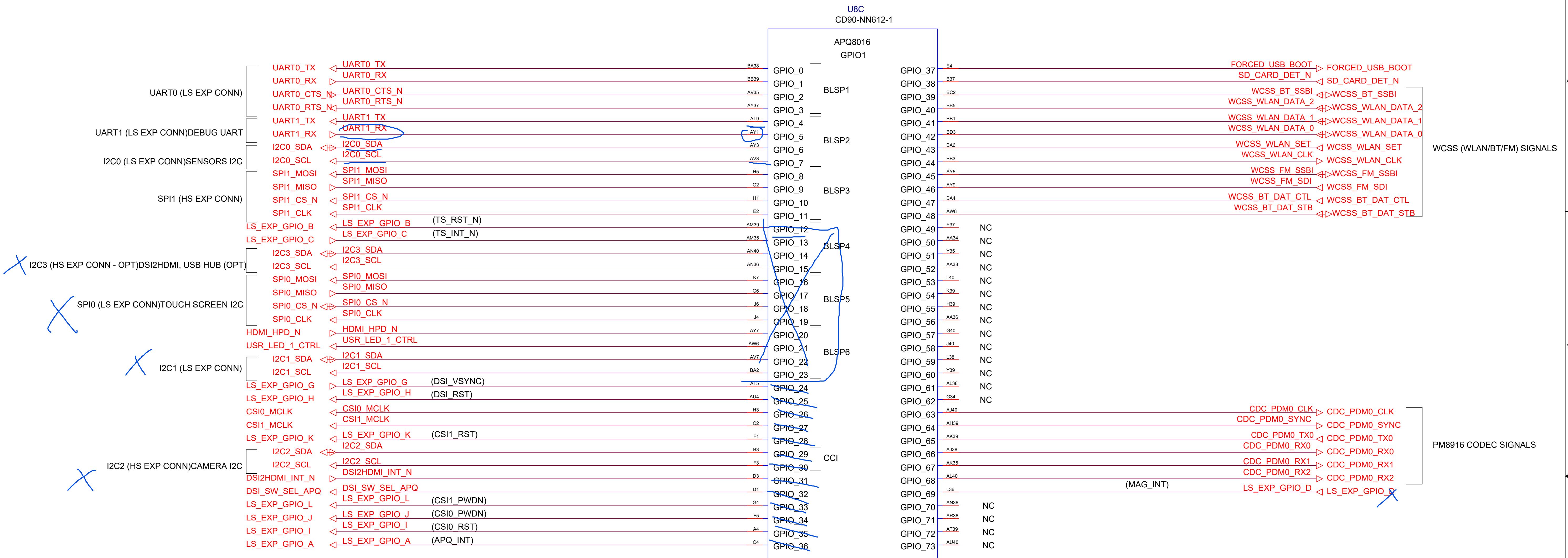


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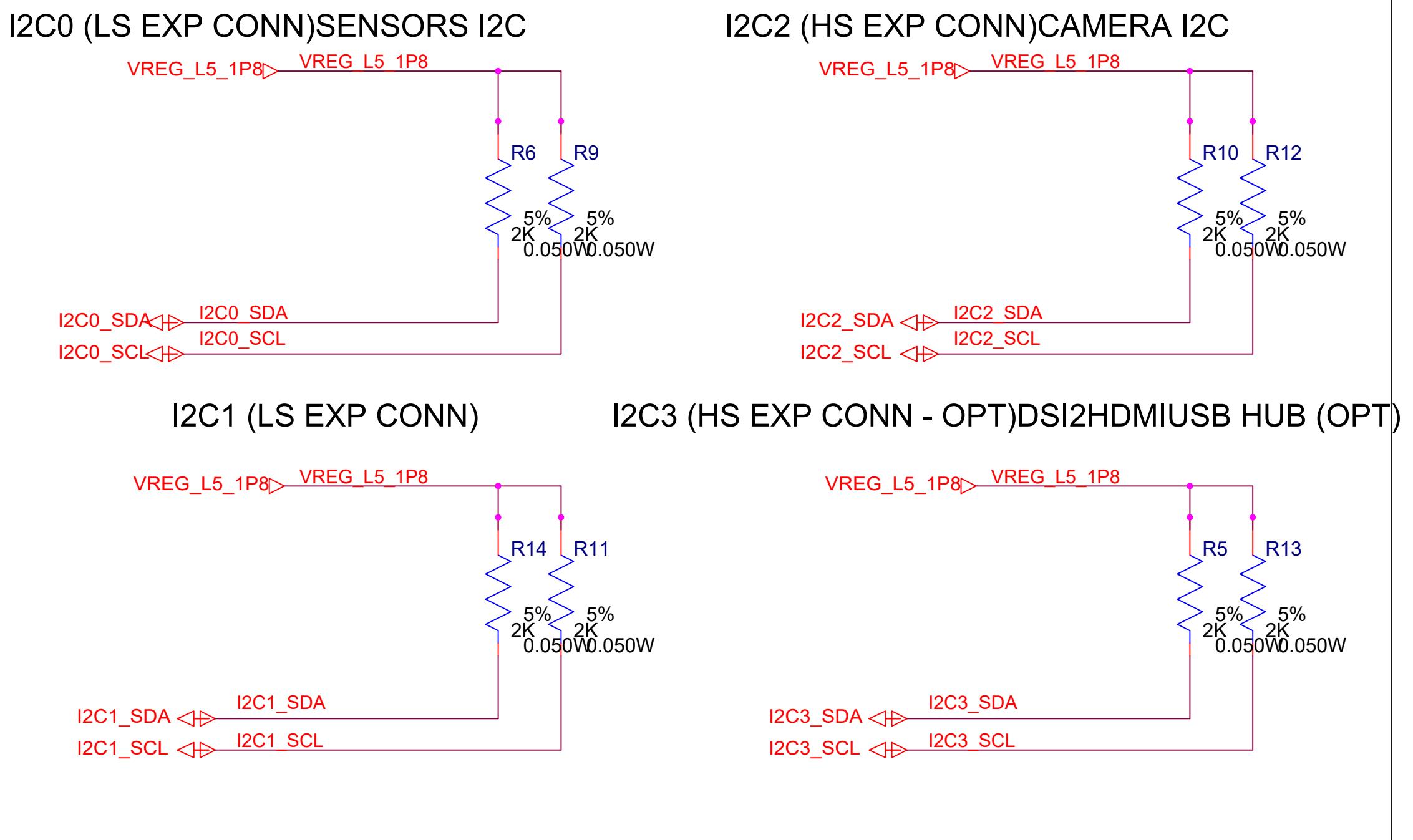
APQ8016 - EBI0-LPDDR3



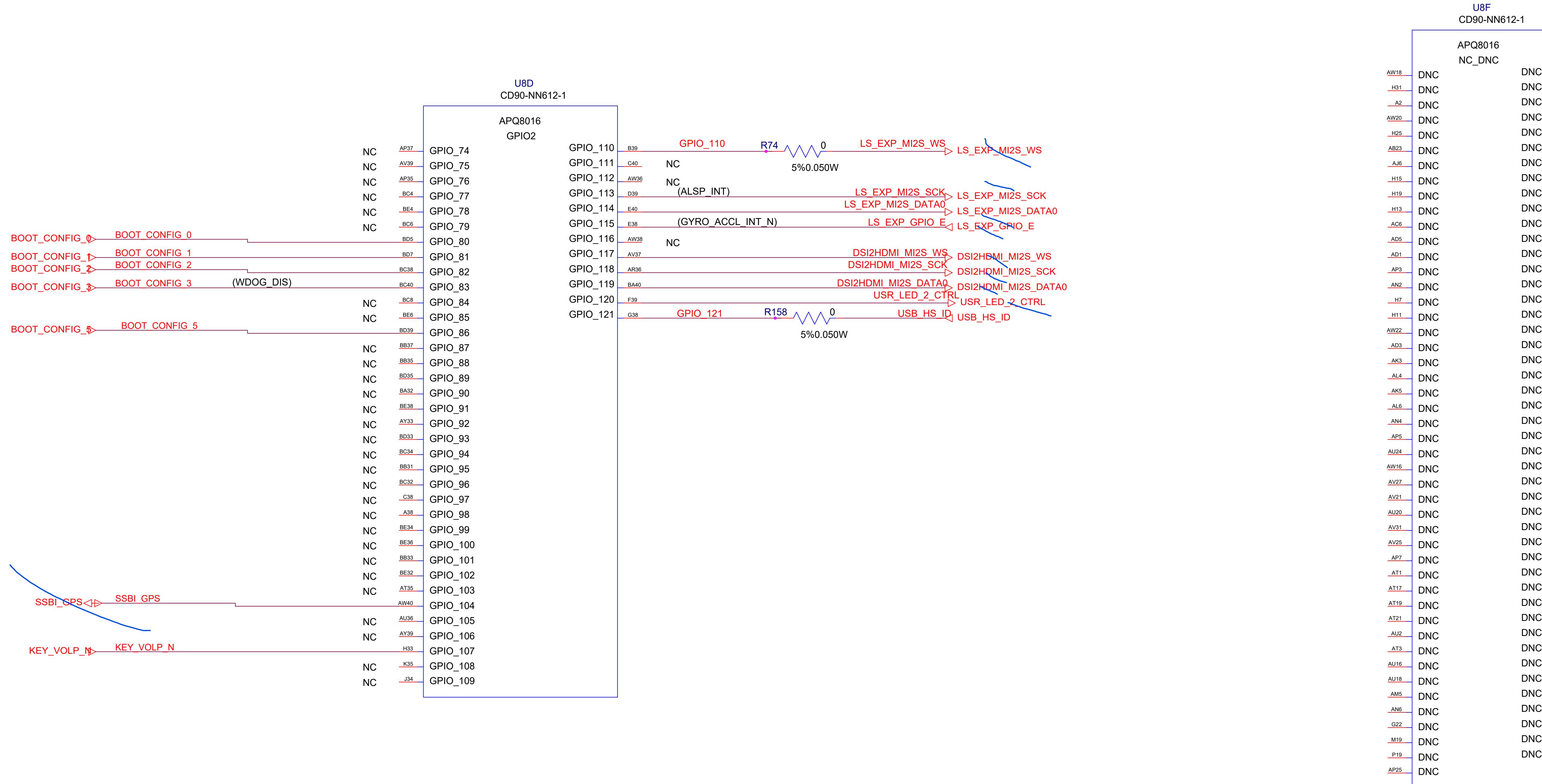
APQ8016 - GPIO 0-73



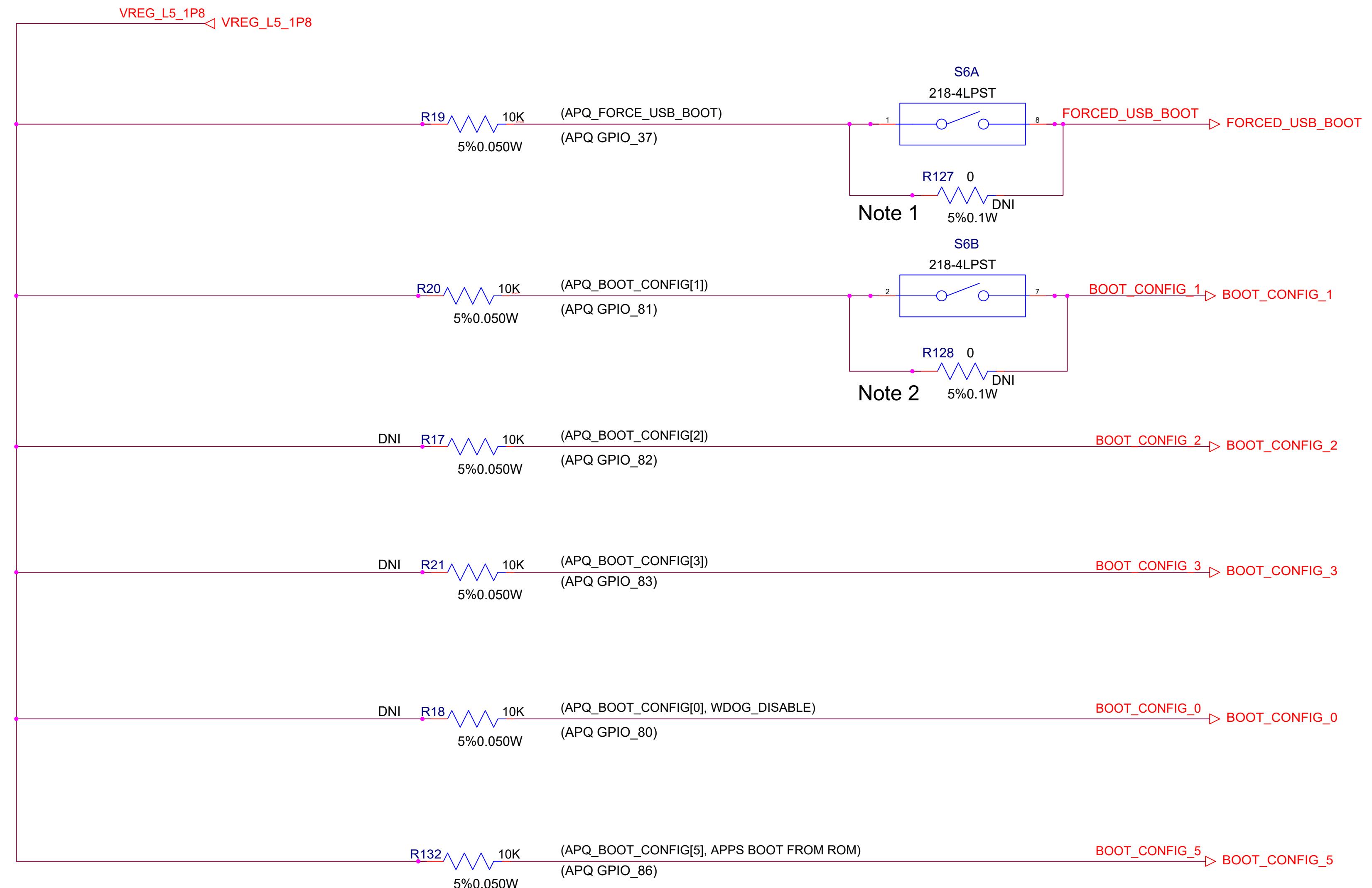
I2C PULL-UP RESISTORS



APQ8016 - GPIO 74-121 / DNC



APQ8016 - BOOT CONFIG SW



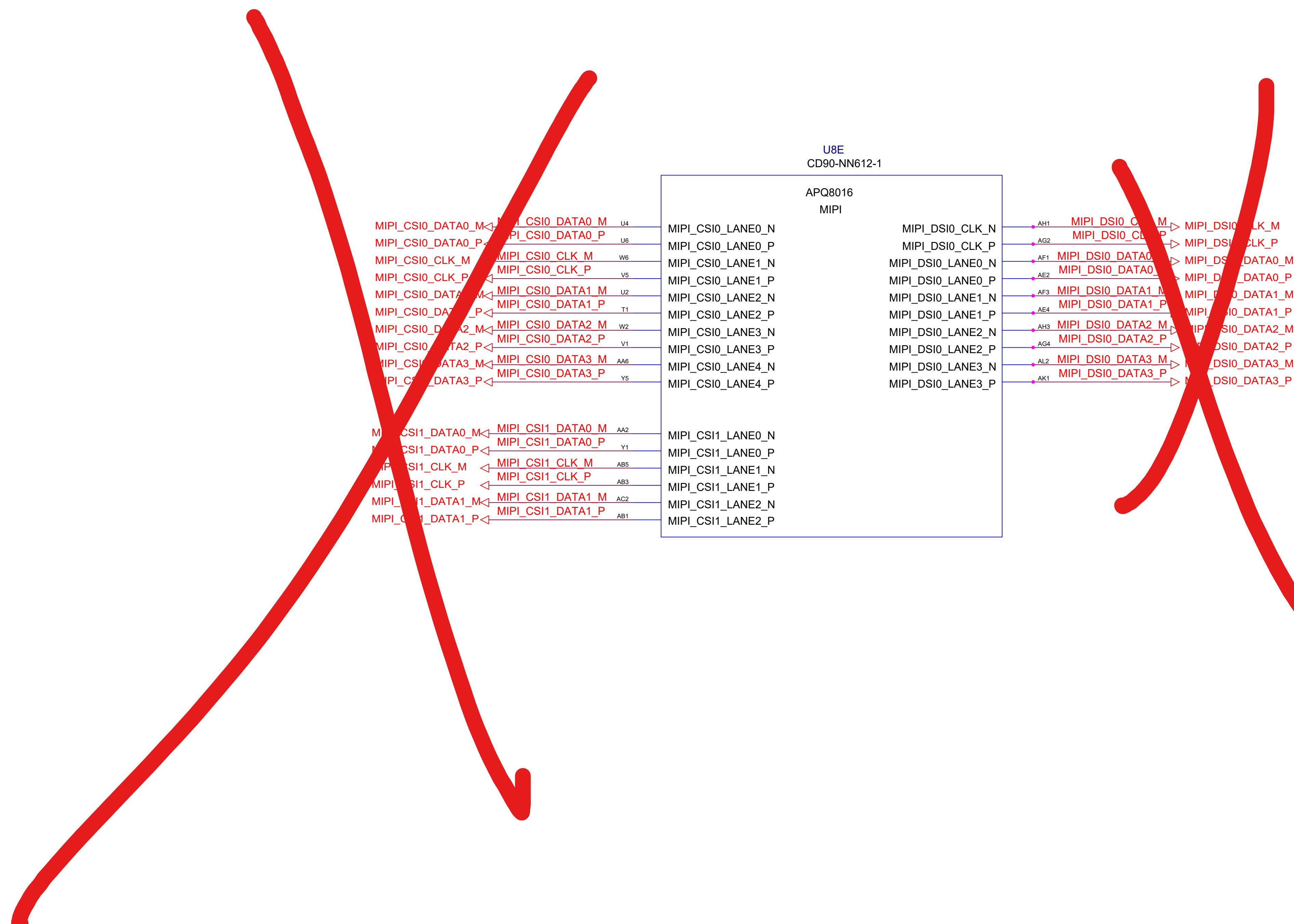
BOOT CONFIGURATIONS

BOOT_CONFIG[3:1]	BOOT OPTIONS
0b000	SDC1 --> SDC2 --> USB2.0
0b001	SDC2 --> SDC1 --> USB2.0
0b010	SDC1 --> USB2.0
0b011	USB2.0

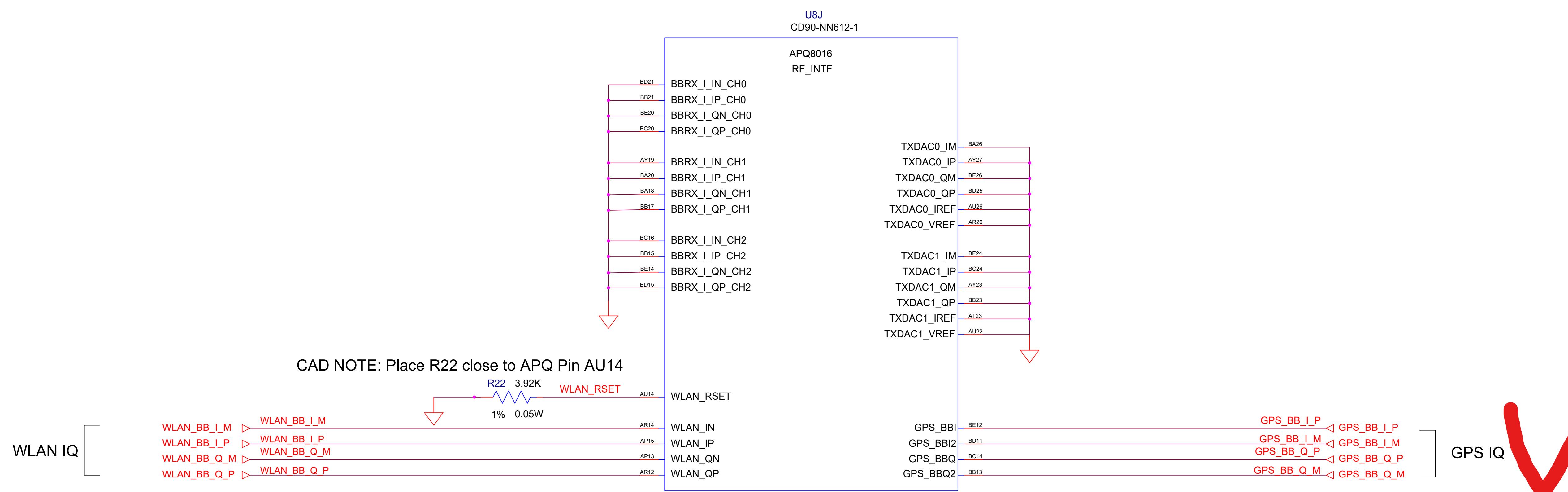
Default Boot Config (0b000) is eMMC on the SDC1

Note 1: Short between resistors pads to force boot from USB when dip-switch is not installed

Note 2: Short between resistors pads to boot from uSD when dip-switch is not installed

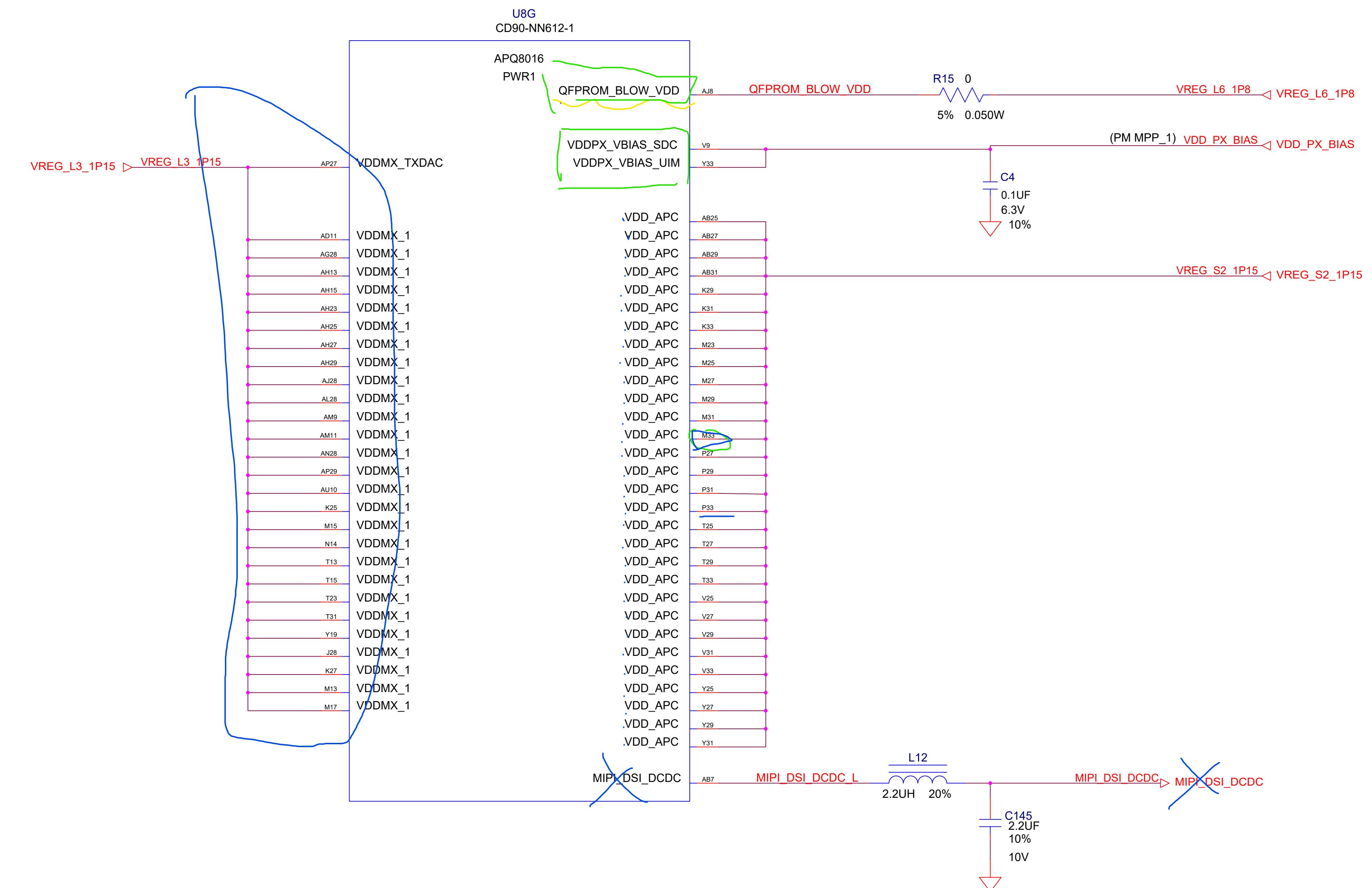


APQ8016 - RF INTERFACE



DragonBoard410c

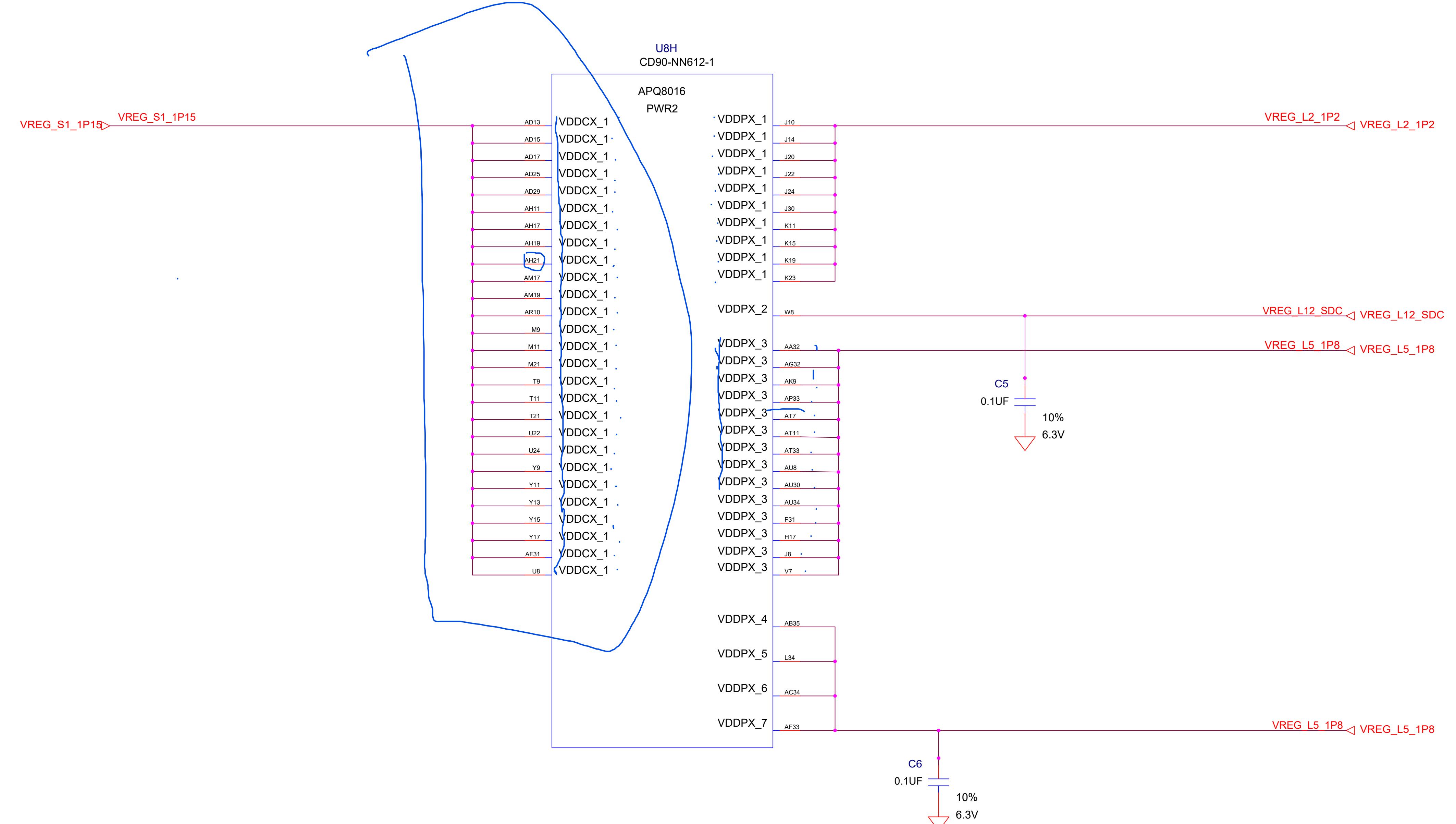
APQ8016 - PWR1



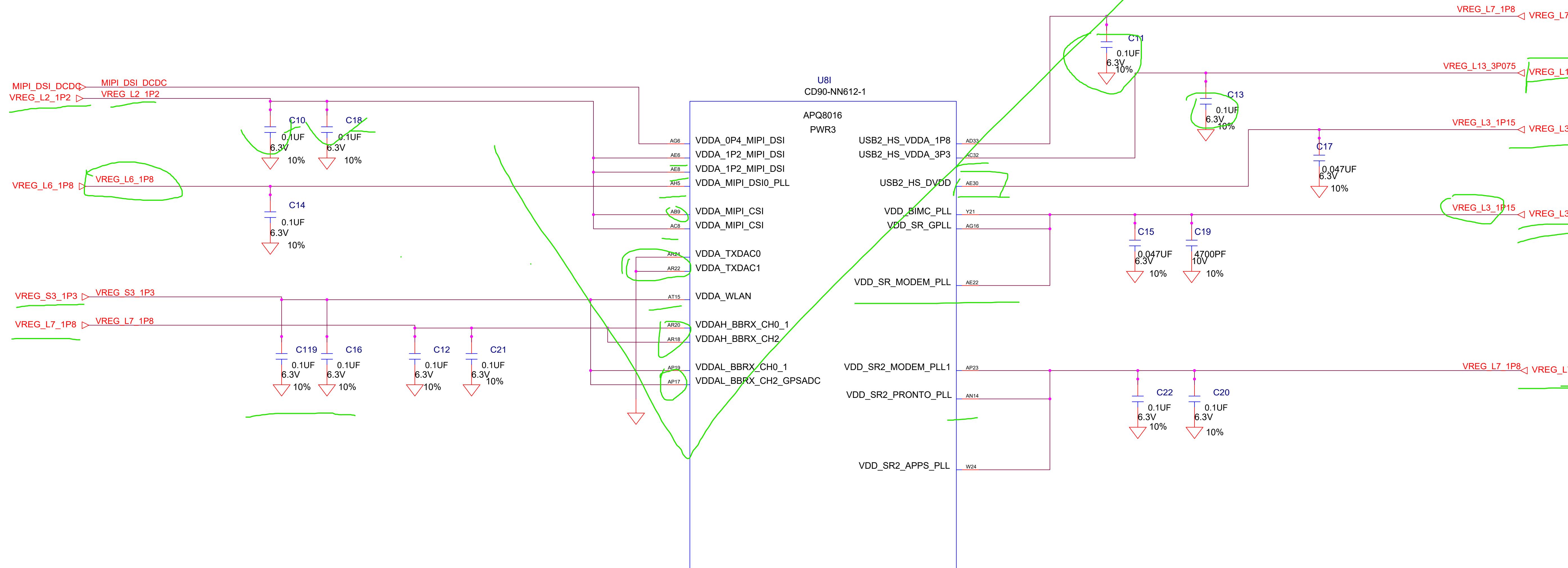
CAD NOTE: Loop to be shorted with MSM AG6 Pin

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APQ8016 - PWR2



APQ8016 - PWR3



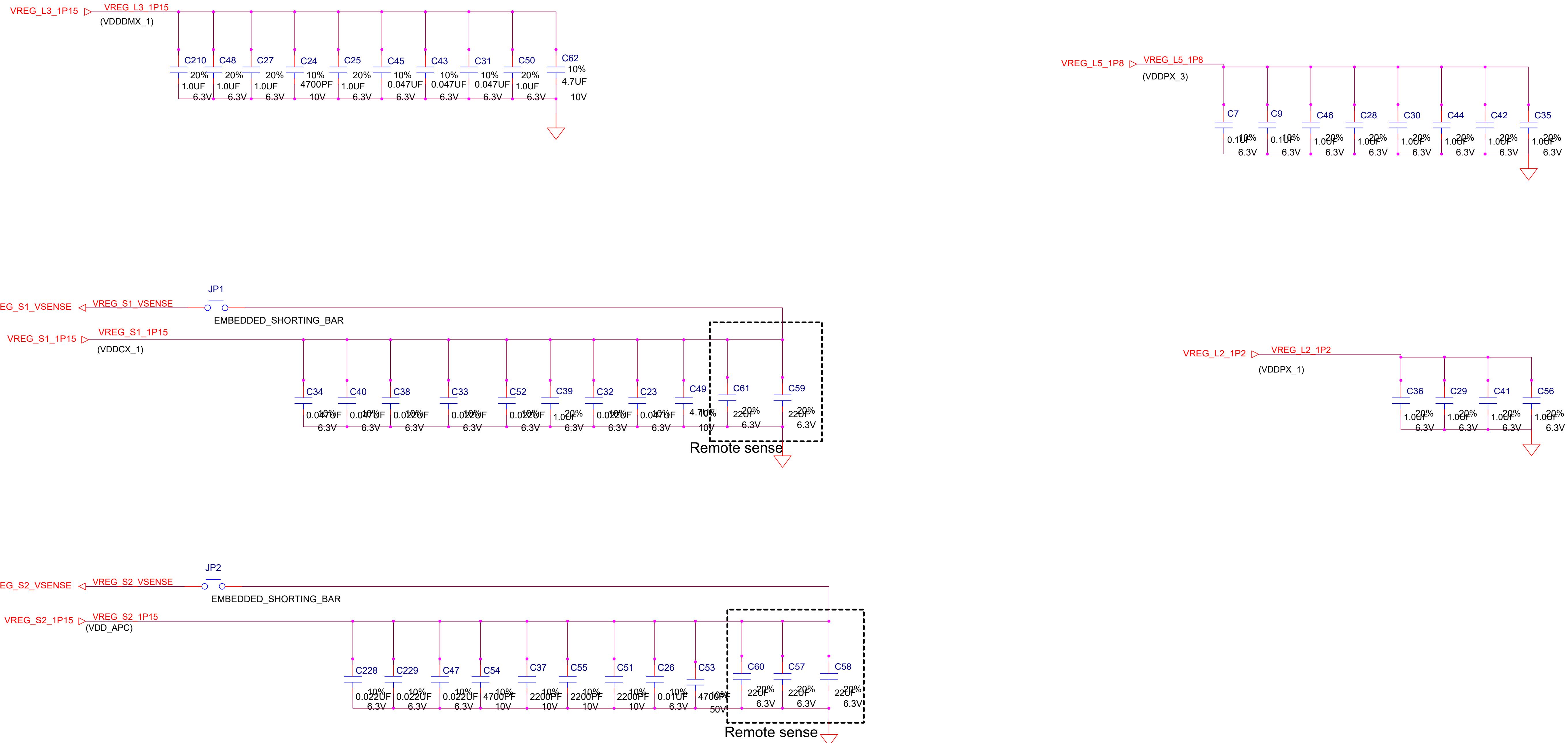
WAI

APQ8016 - GND

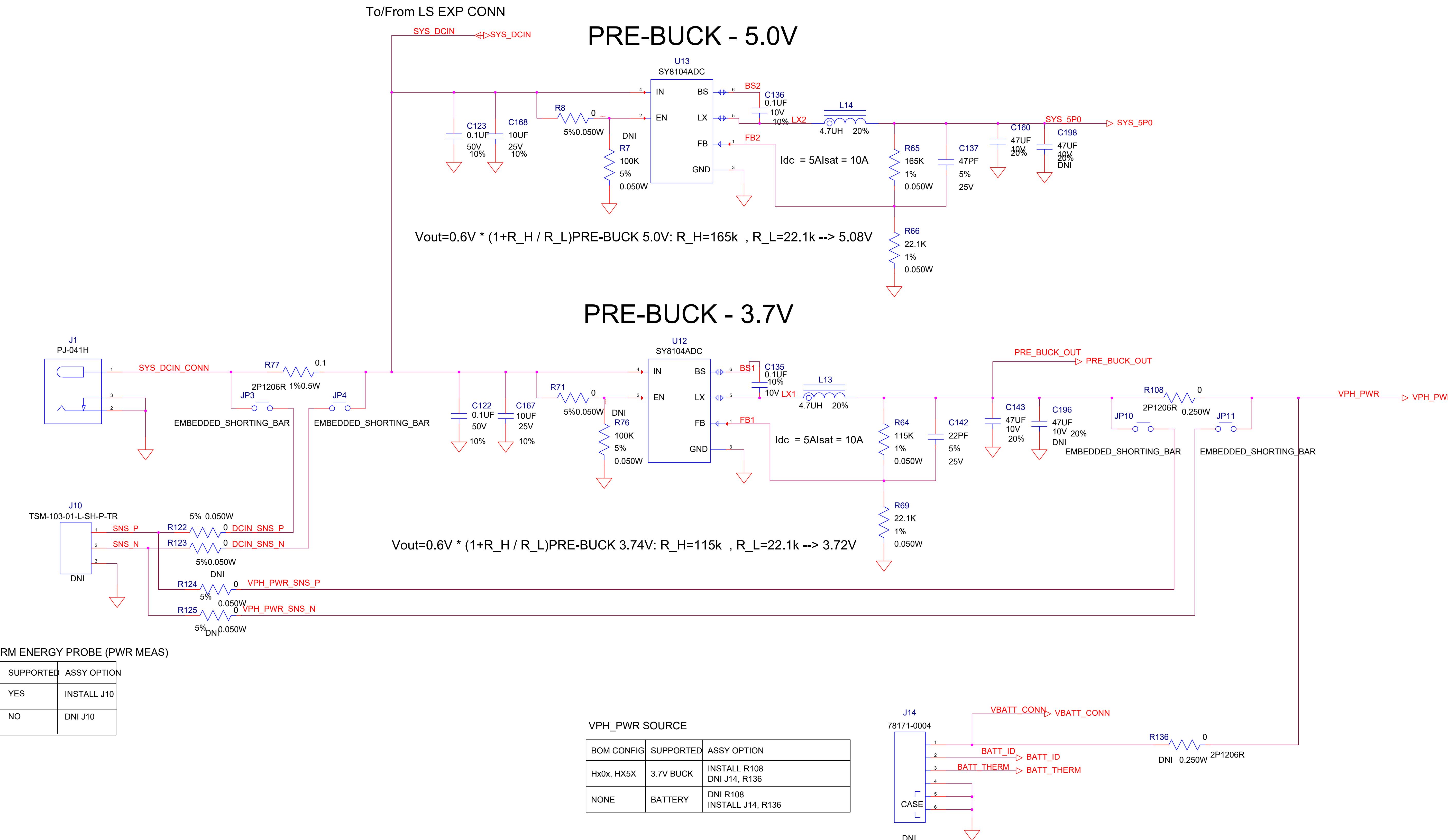


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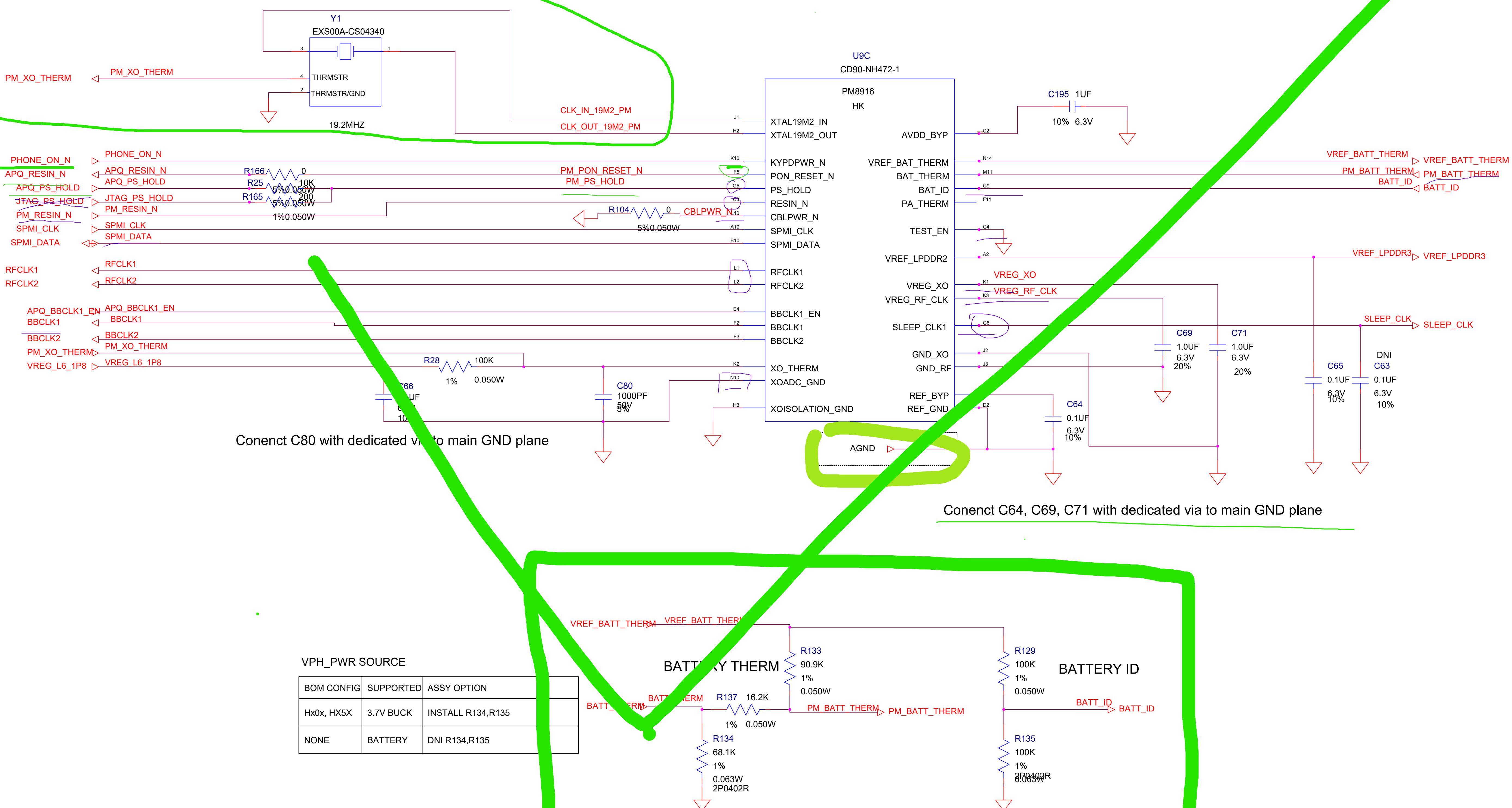
APQ8016 BYPASS CAPACITORS



EXTERNAL BUCK REGULATORS

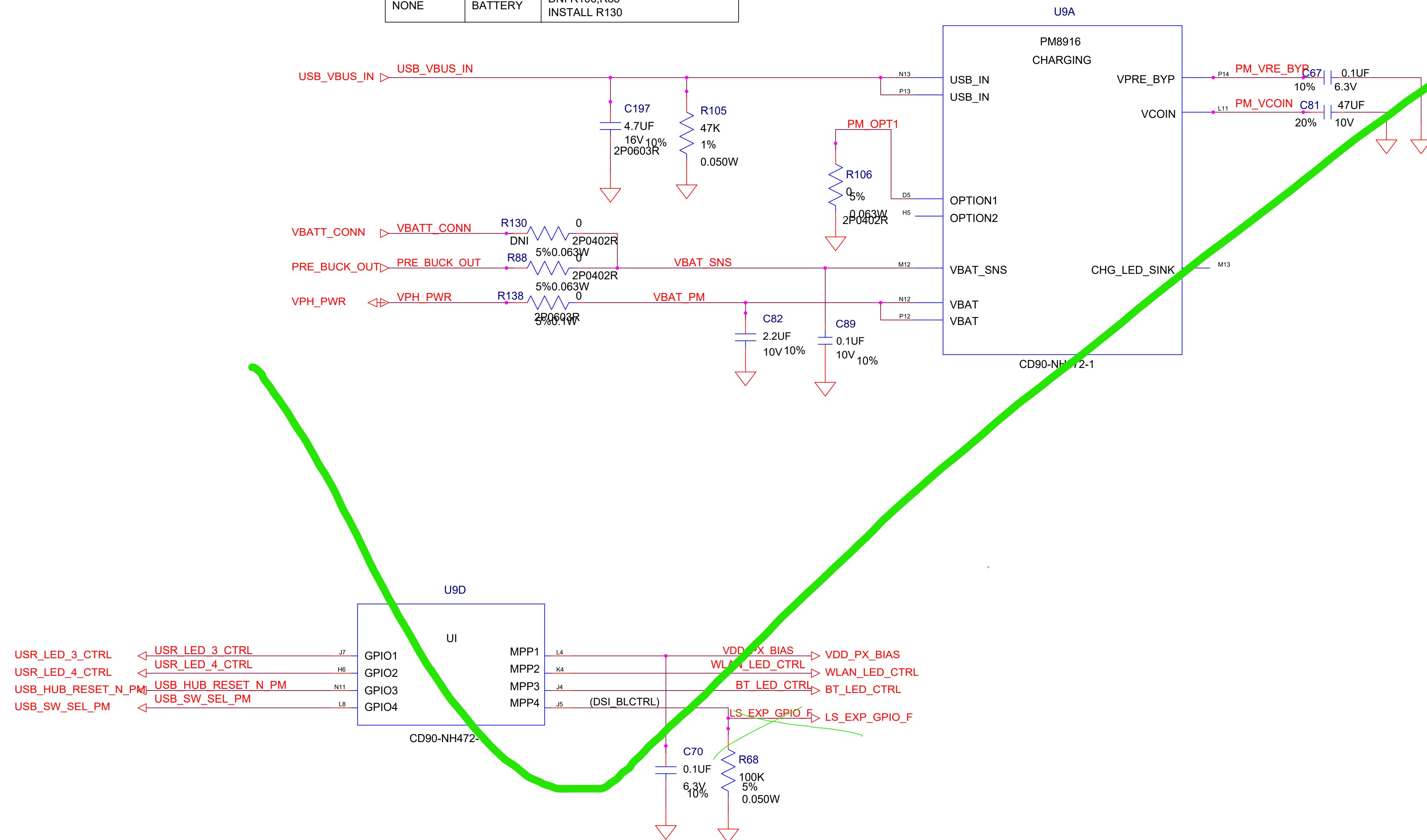


PM8916 - CONTROL/CLOCKS

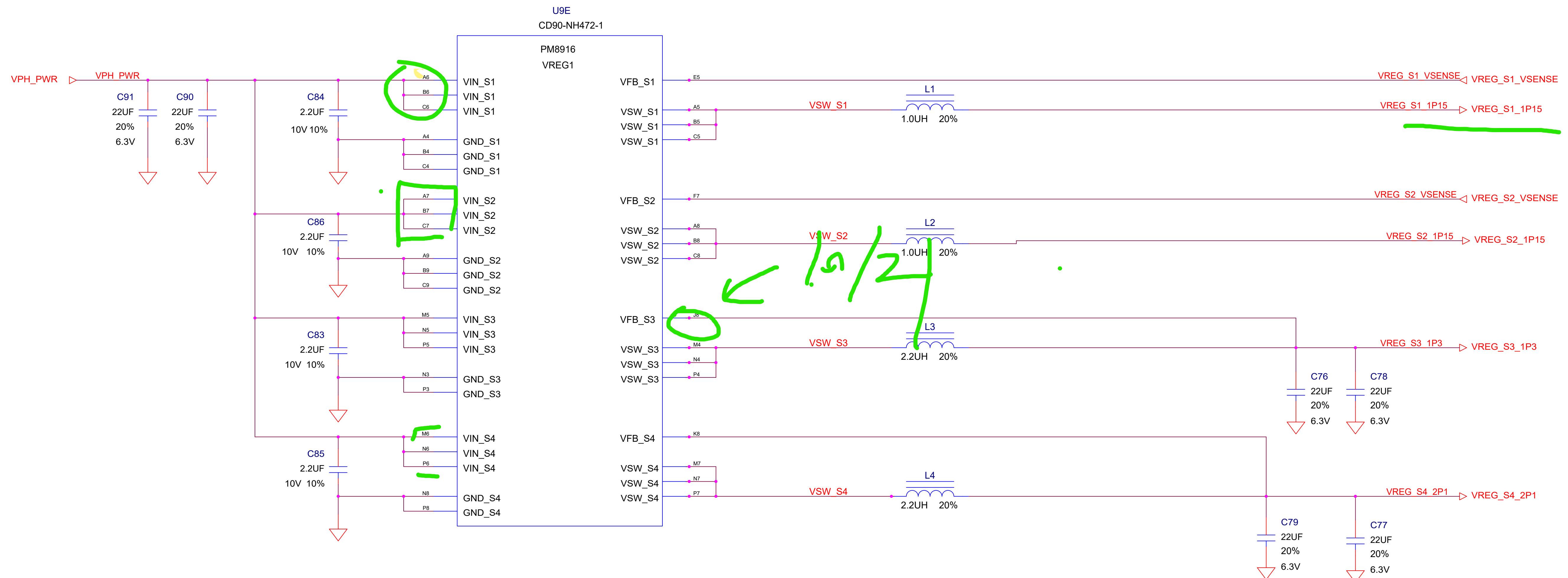


PM8916 - CHARGER/GPIOS/MPPS

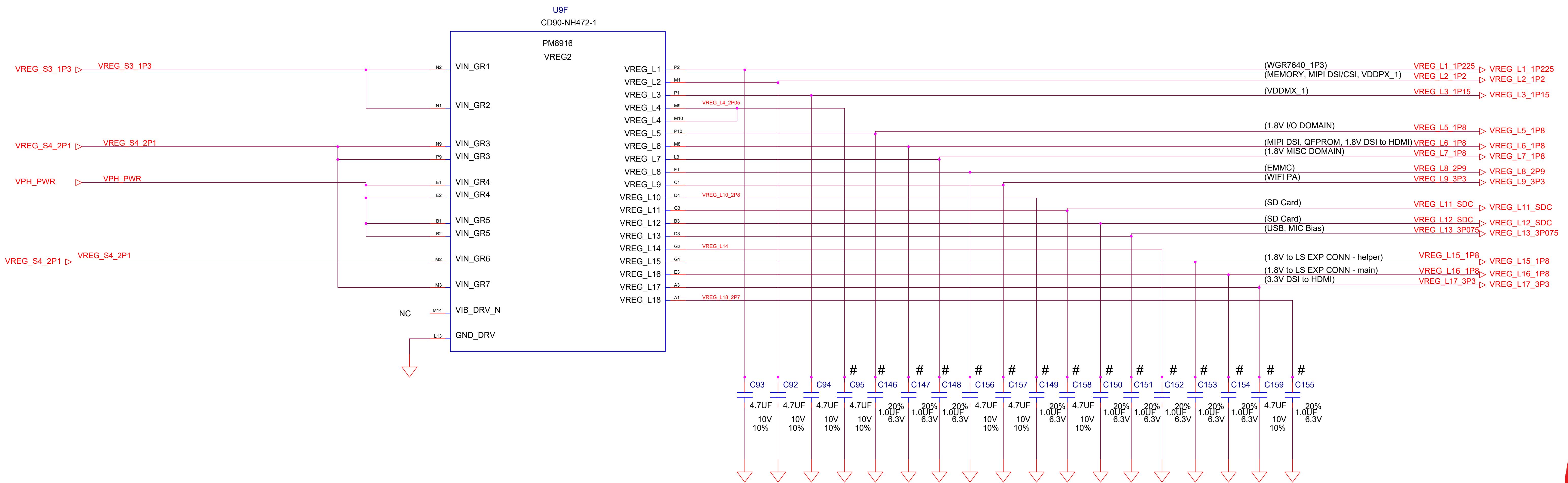
BOM CONFIG	SUPPORTED	ASSY OPTION
Hx0x, HX5X	3.7V BUCK	INSTALL R106.R88 DNI R130
NONE	BATTERY	DNI R106.R88 INSTALL R130



PM8916 - SMPS



PM8916 - LDOs



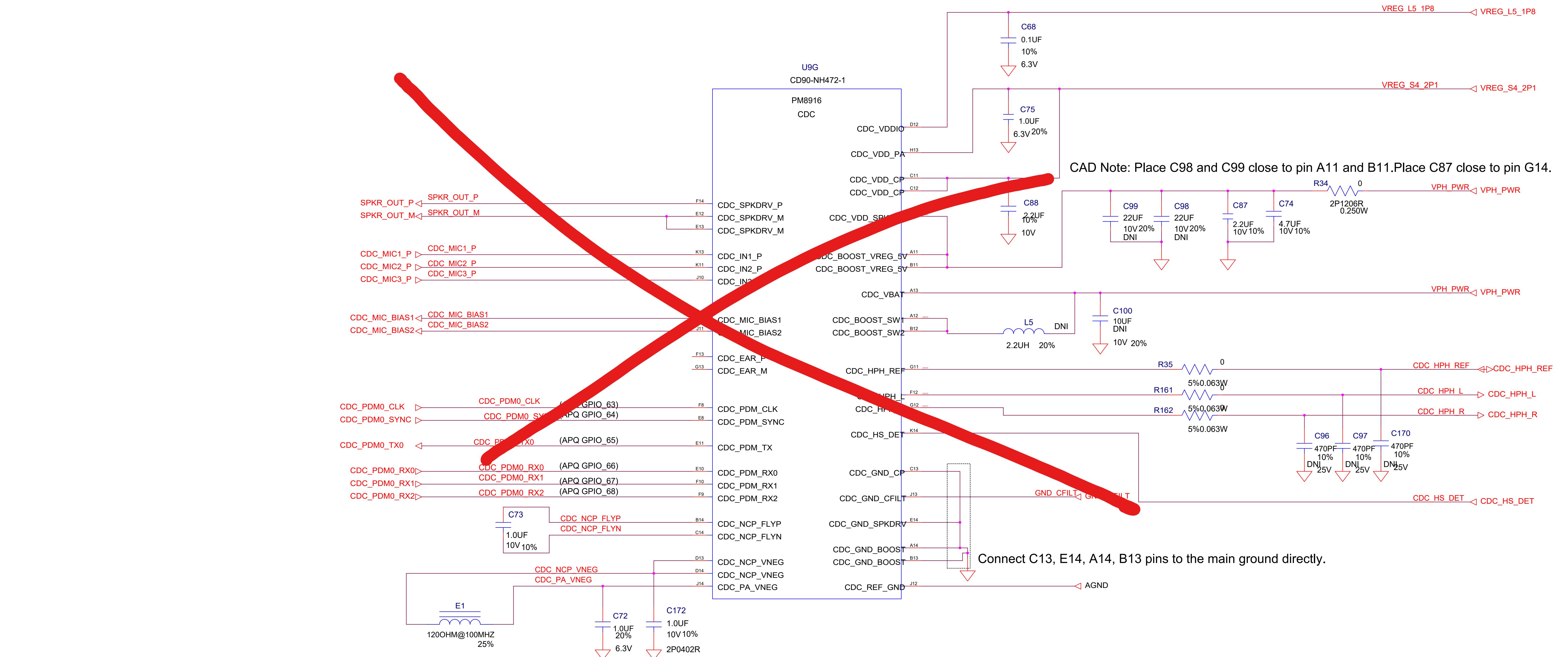
NOTES:

Effective output capacitance LDOs L1, L2, L3, L4, L8, L9, L11, L17 --> $C_{out_eff} = 4.7\mu F$ LDOs L5, L6, L7, L10, L12, L13, L14, L15, L16, L18 --> $C_{out_eff} = 1.0\mu F$

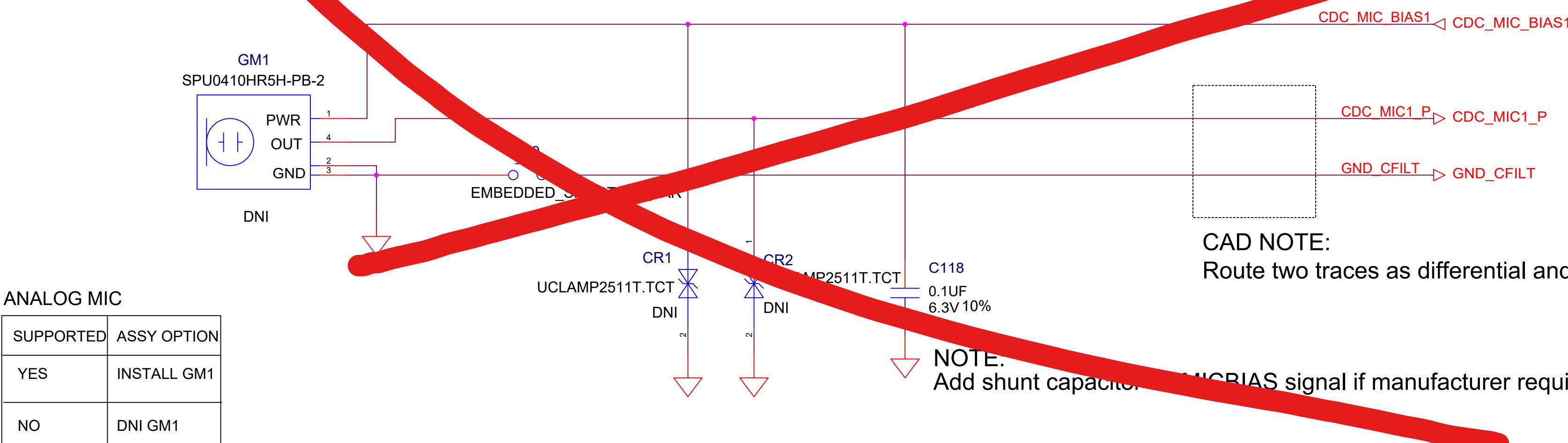
PSEUDO CAPLESS LDOs (indicated by # near the capacitor)L4, L5, L6, L7, L8, L9, L10, L11, L12, L13, L14, L15, L16, L17, L18

PSEUDO CAPLESS LDOs capacitors location is defined in 80-NK808-2

PM8916 - AUDIO

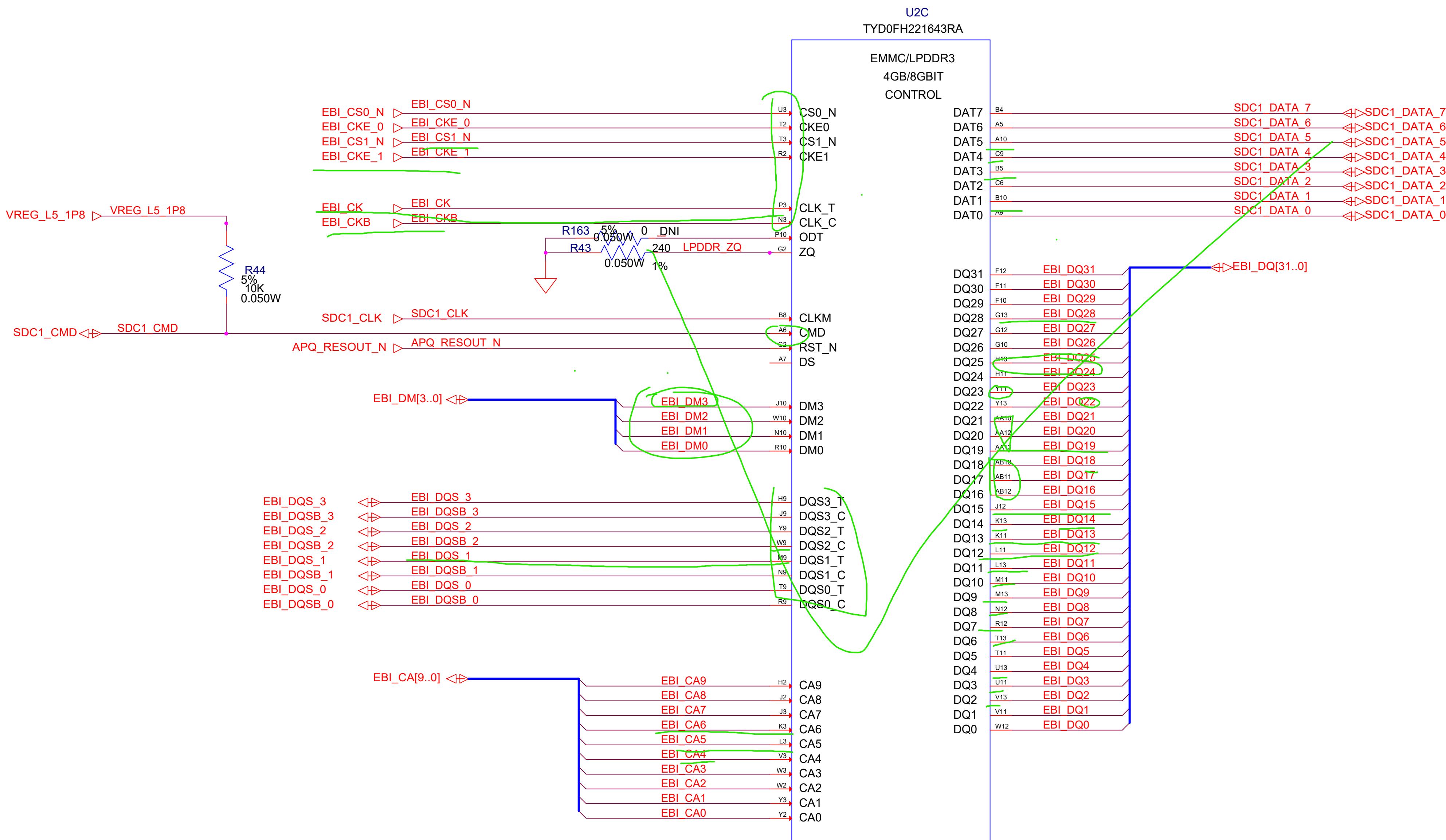


ANALOG MIC

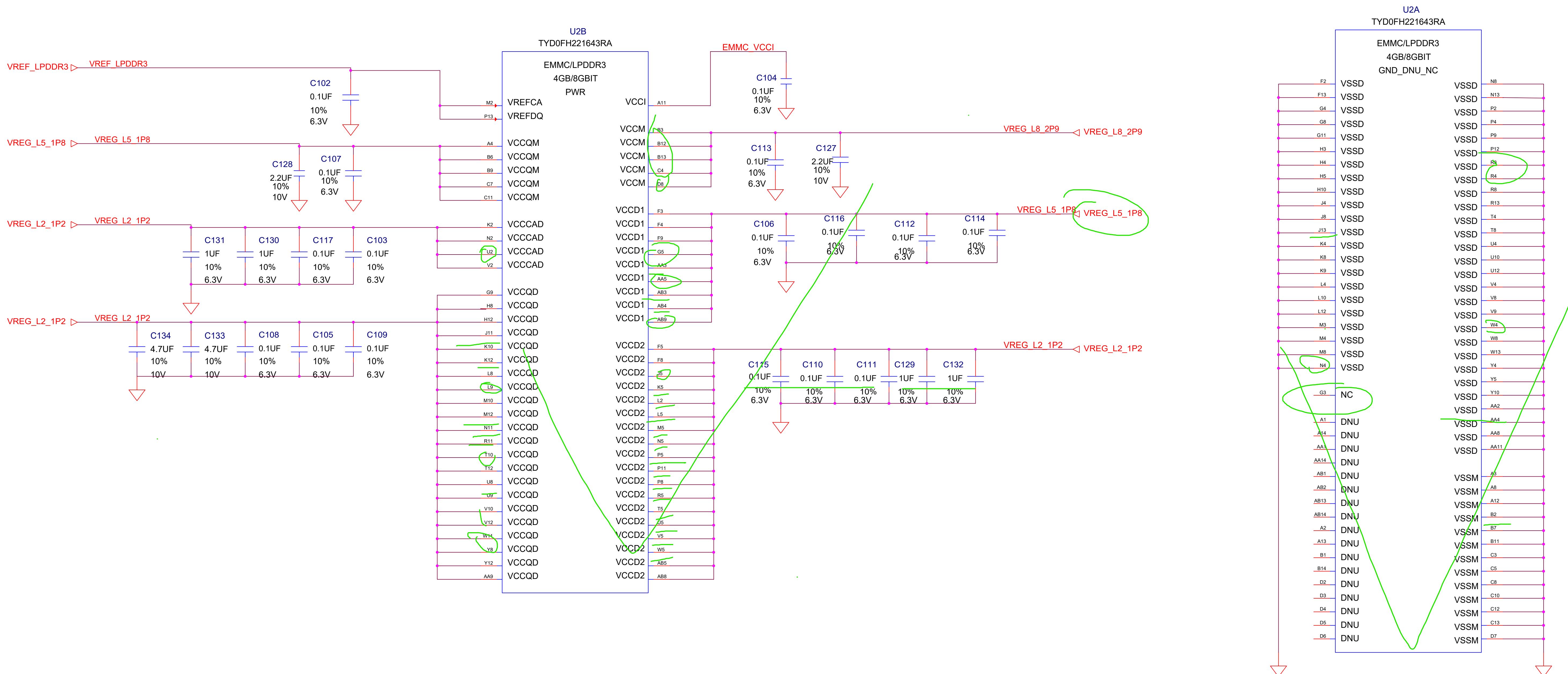


ANALOG MIC	
SUPPORTED	ASSY OPTION
YES	INSTALL GM1
NO	DNI GM1

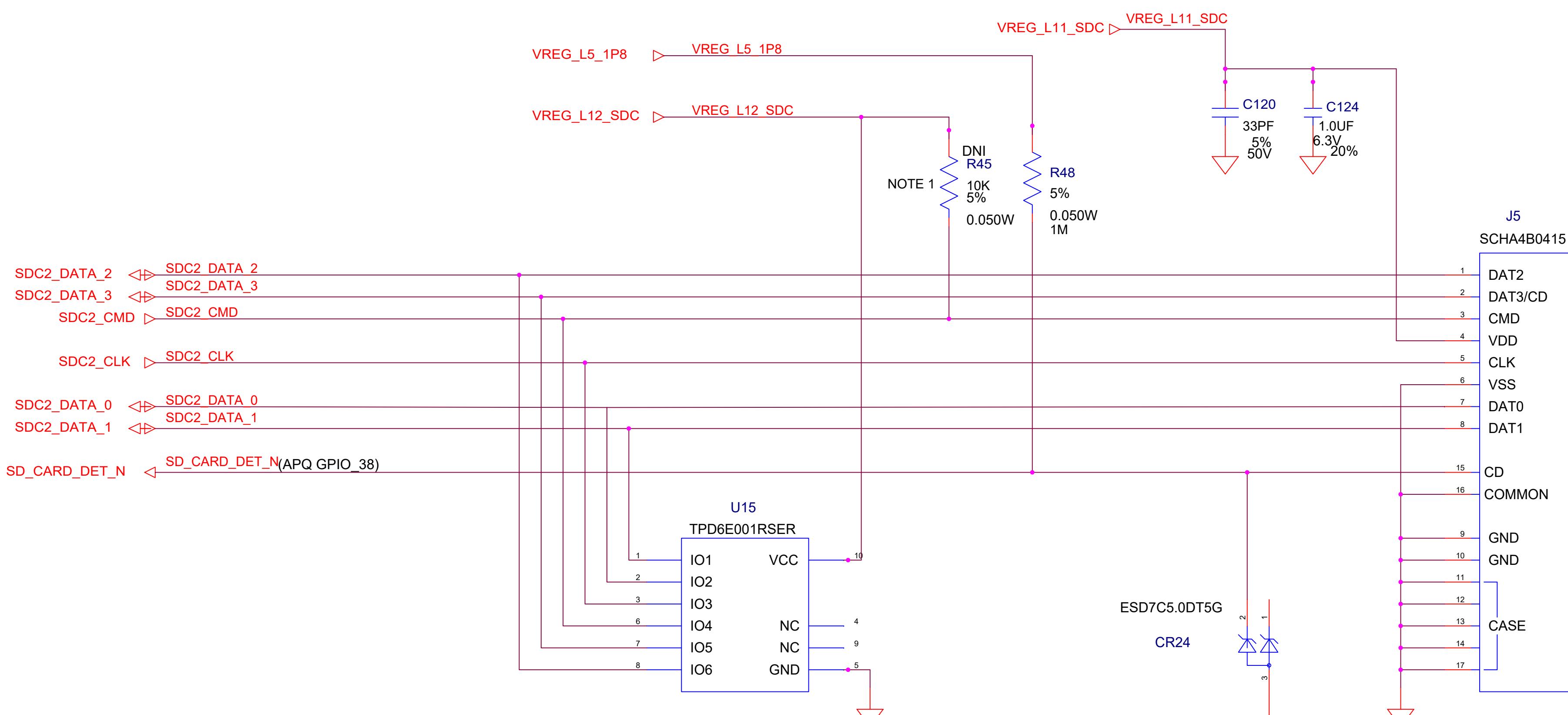
MEMORY - LPDDR3 + EMMC - CONTROL



MEMORY - LPDDR3 + EMMC - CONTROL



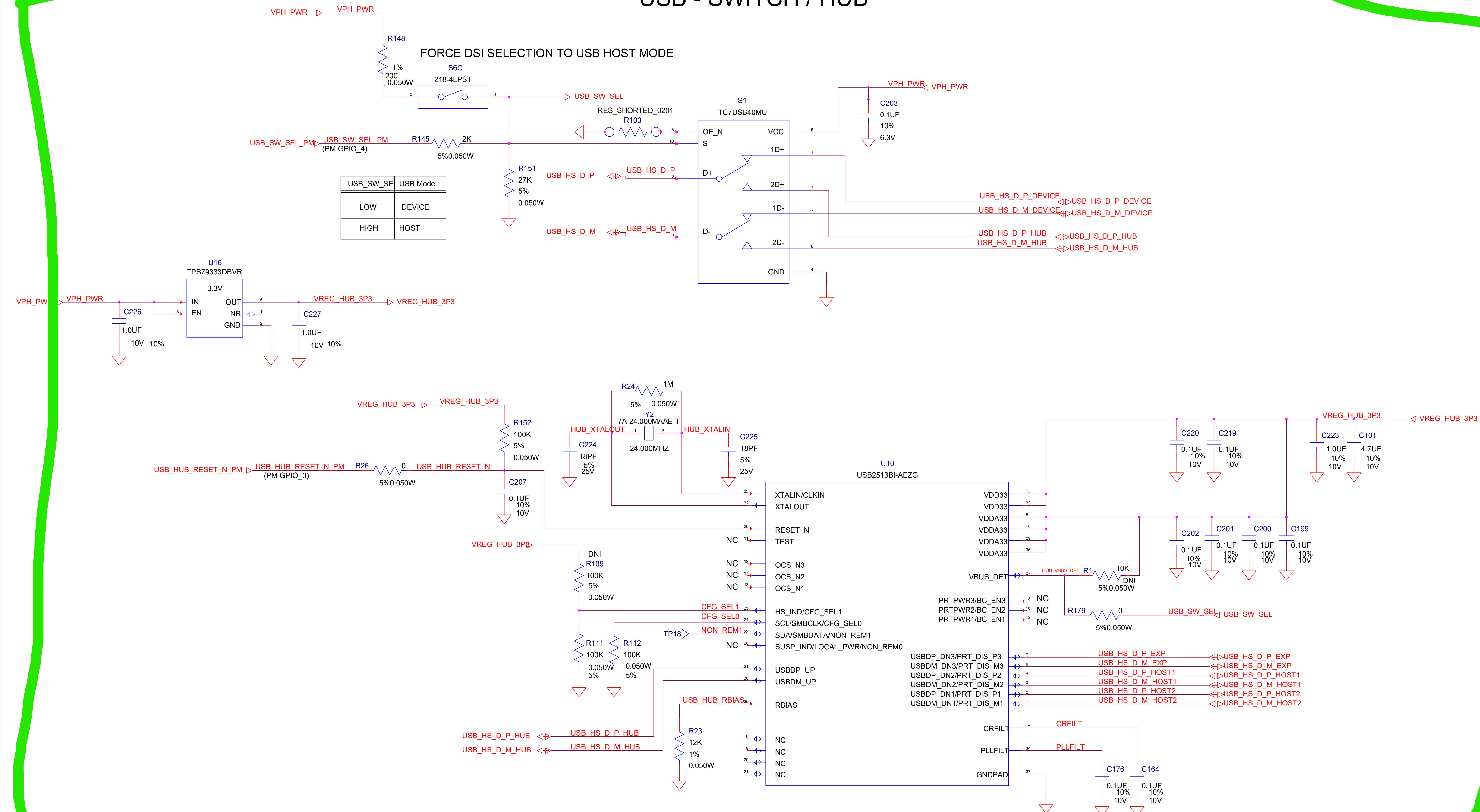
MEMORY - uSD CONNECTOR



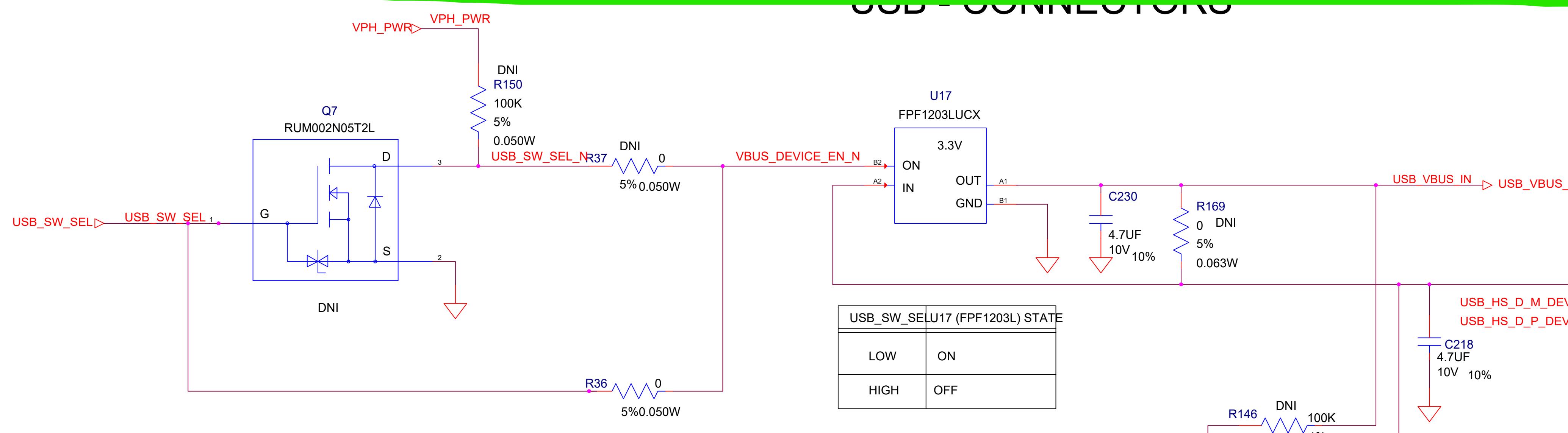
CARD DETECT	CASE
CARD NOT INSTALLED	CD-COMMON SW=OFF
CARD INSTALLED	CD-COMMON SW=ON

CD O---
COMMON O---

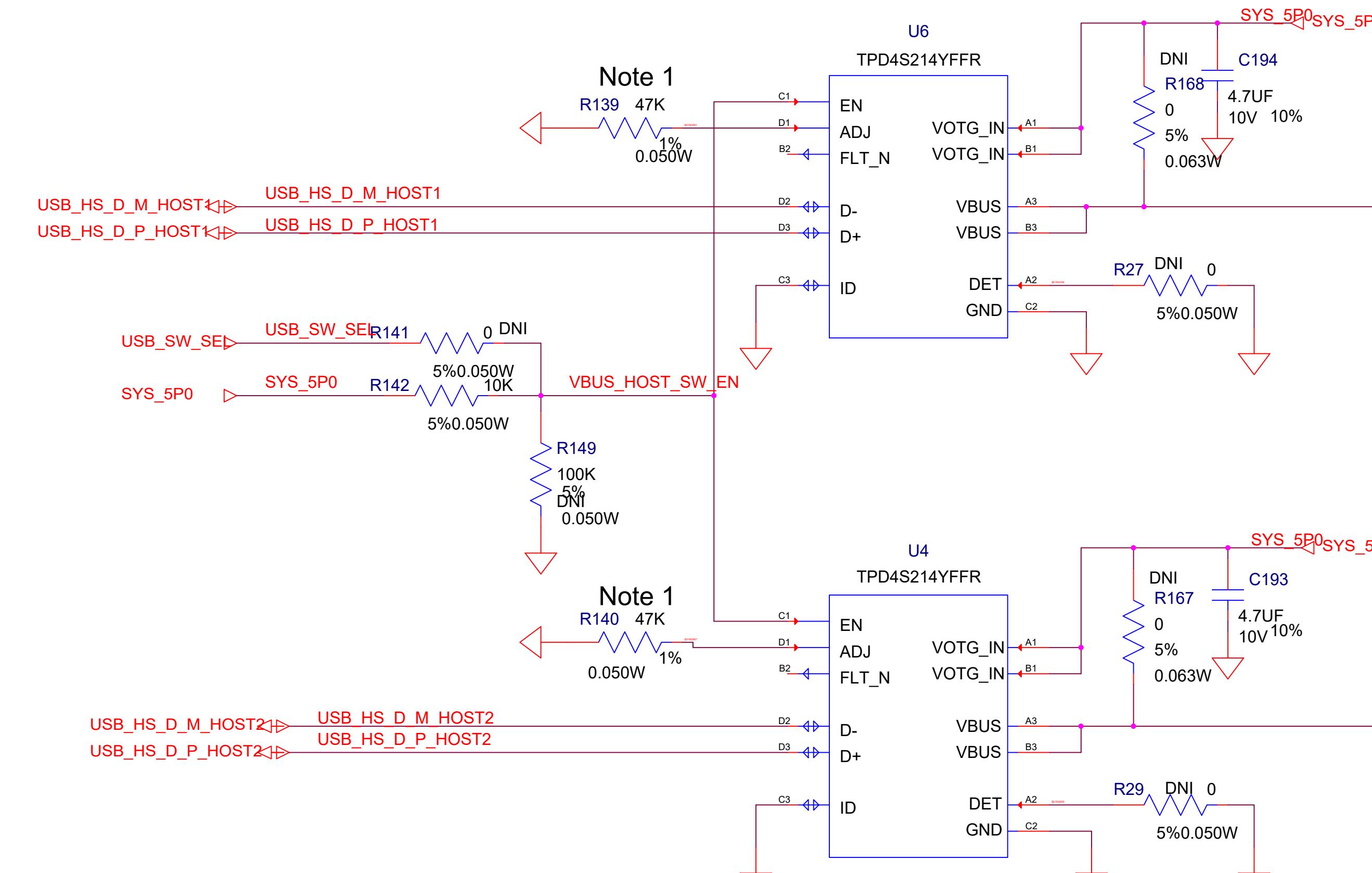
USB - SWITCH / HUB



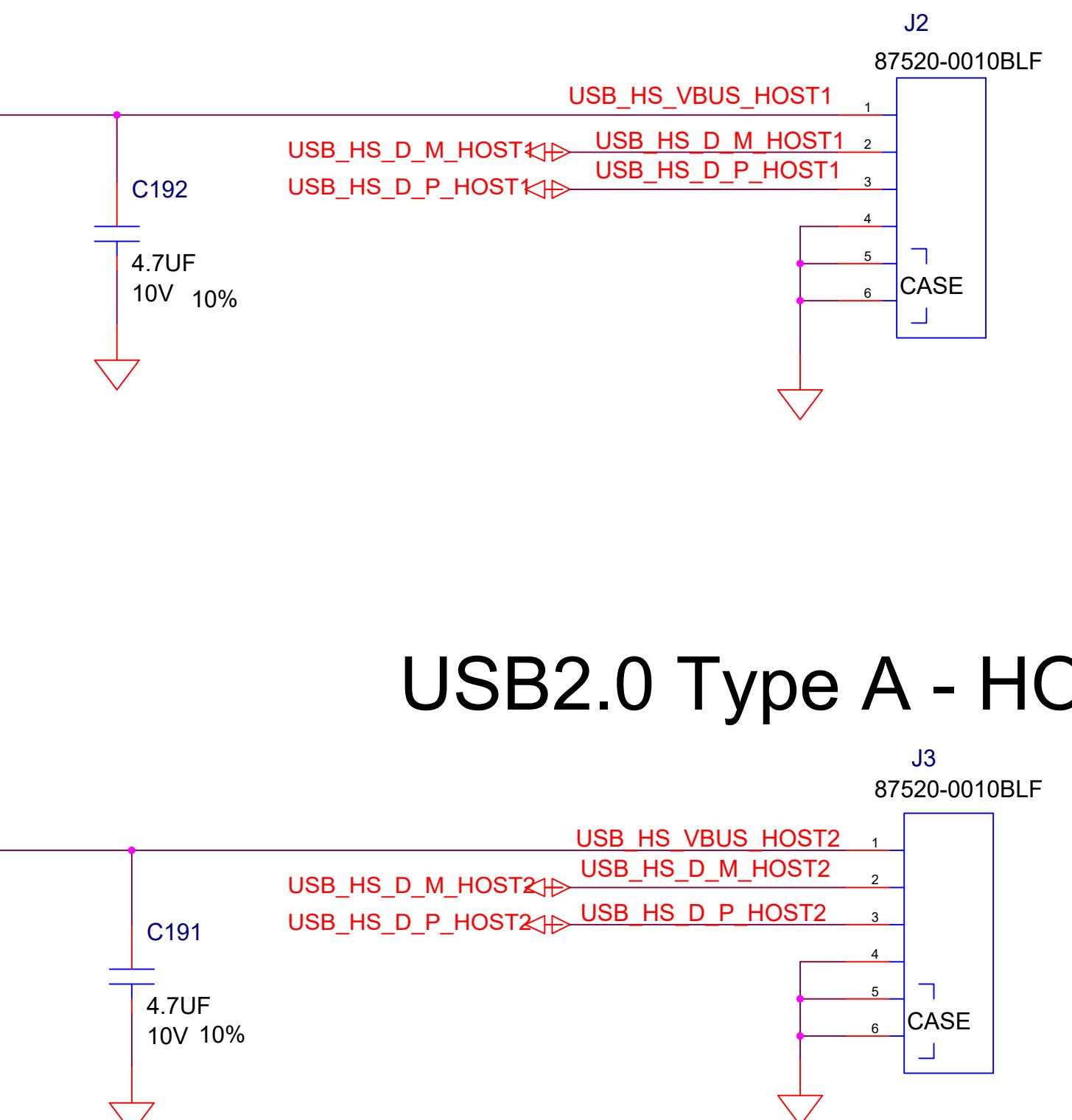
USB - CONNECTORS



USB2.0 uB - DEVICE



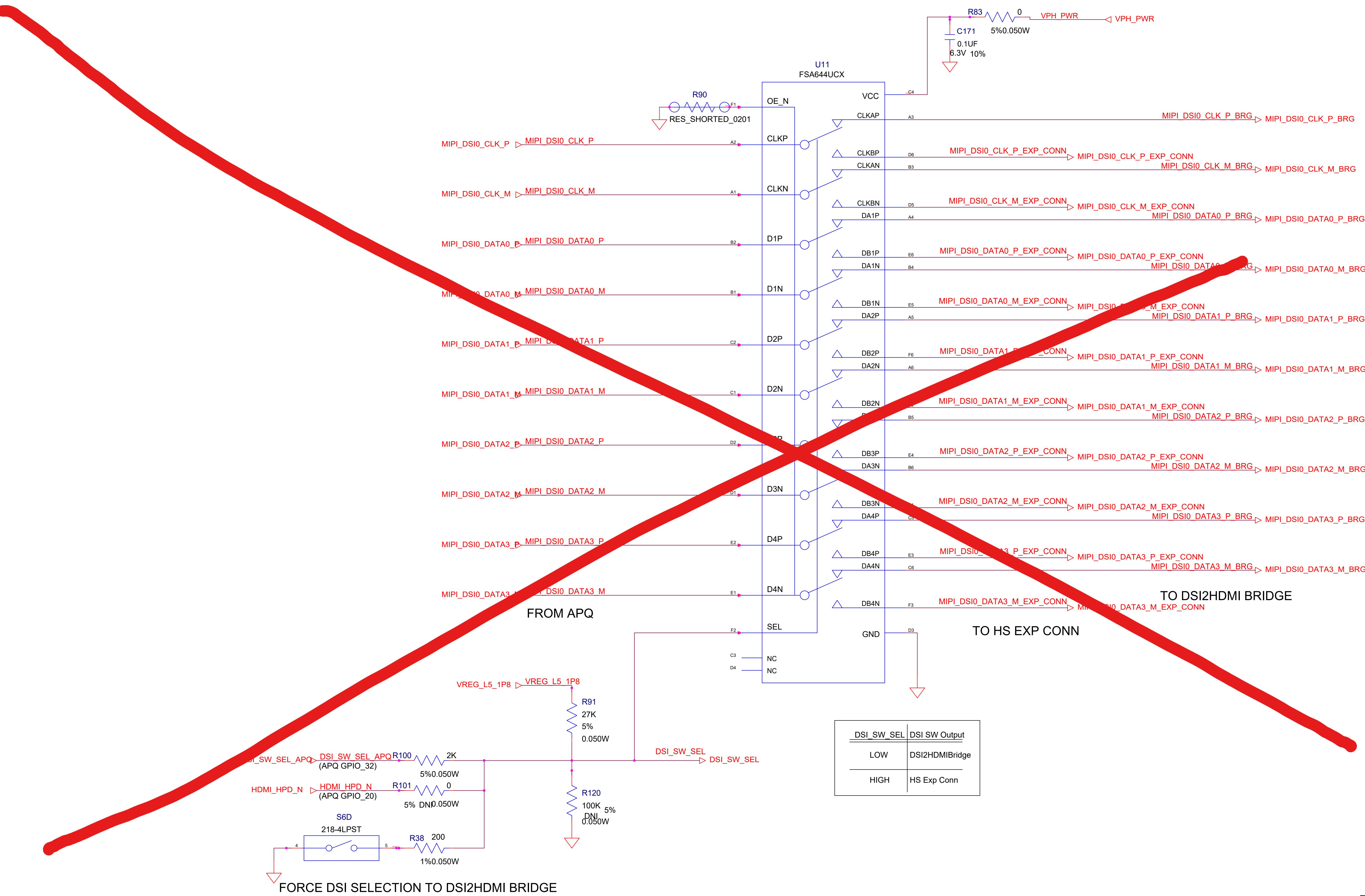
USB2.0 Type A - HOST1



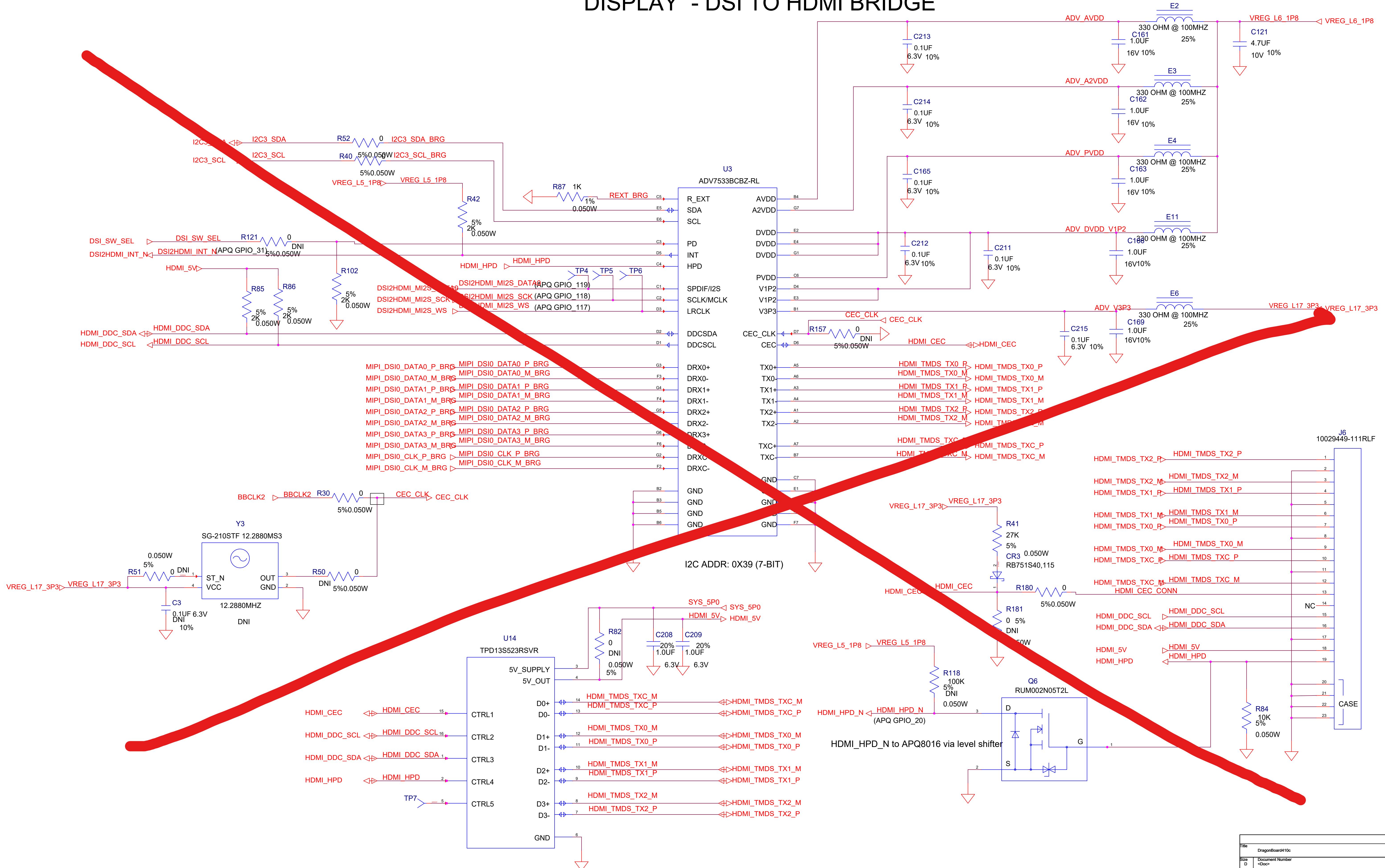
USB2.0 Type A - HOST2

Notes: 1. Current Limit = 55.358 / R_{adj} [komh] = 1.18mA2. Connect USB ID pin on connector when uAB conenctor is used (10104111)

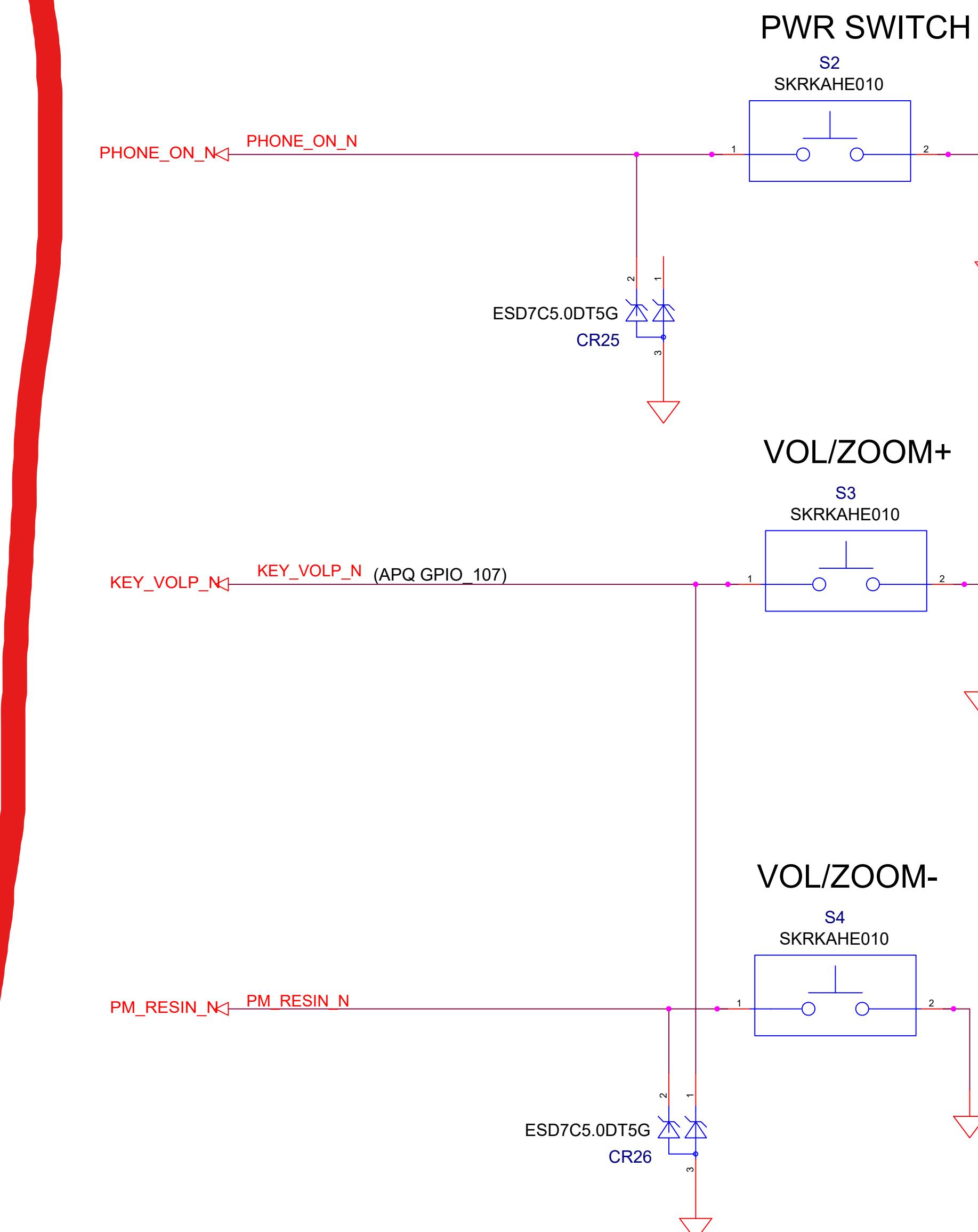
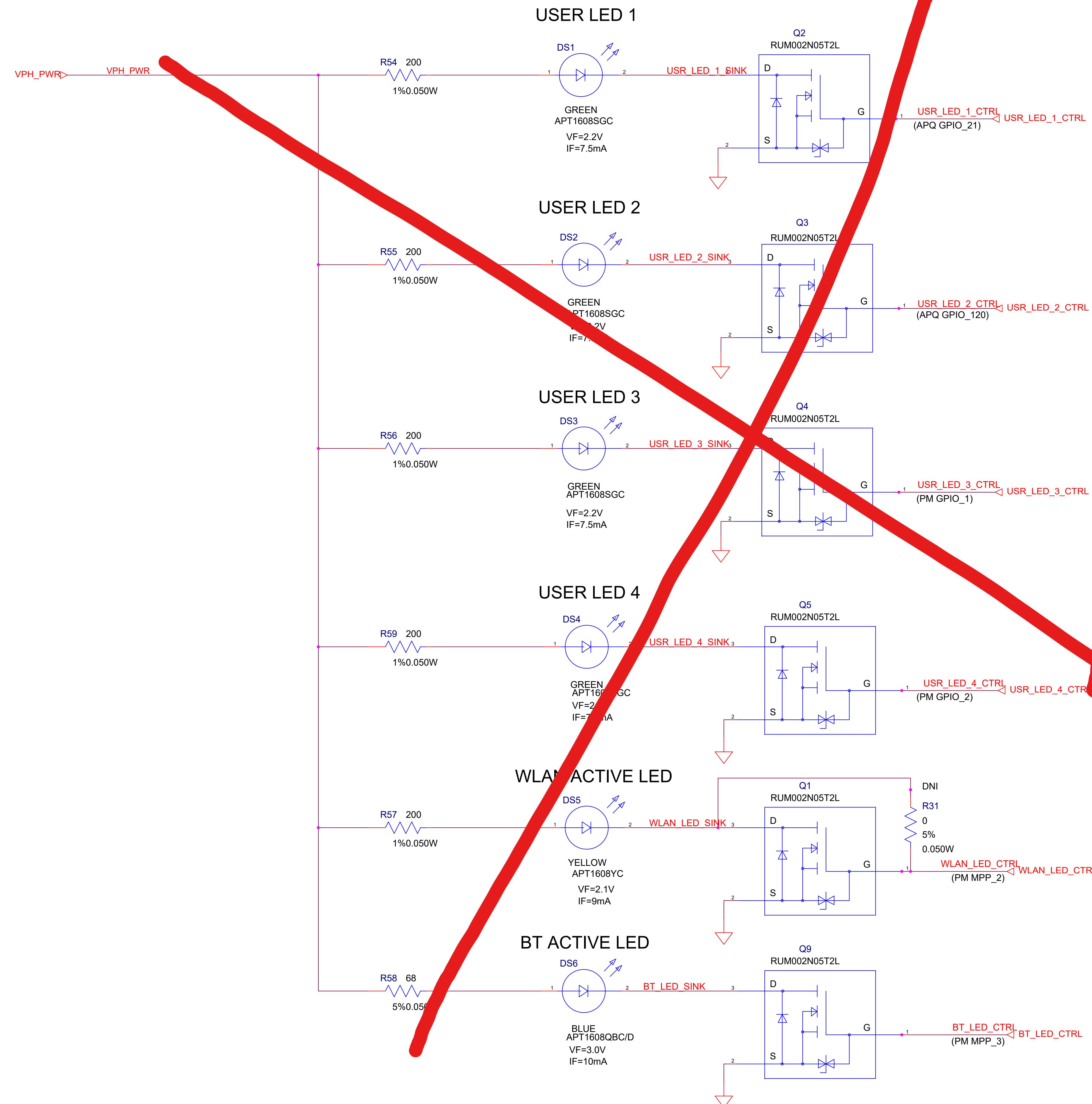
DISPLAY - DSI SWITCH



DISPLAY - DSI TO HDMI BRIDGE

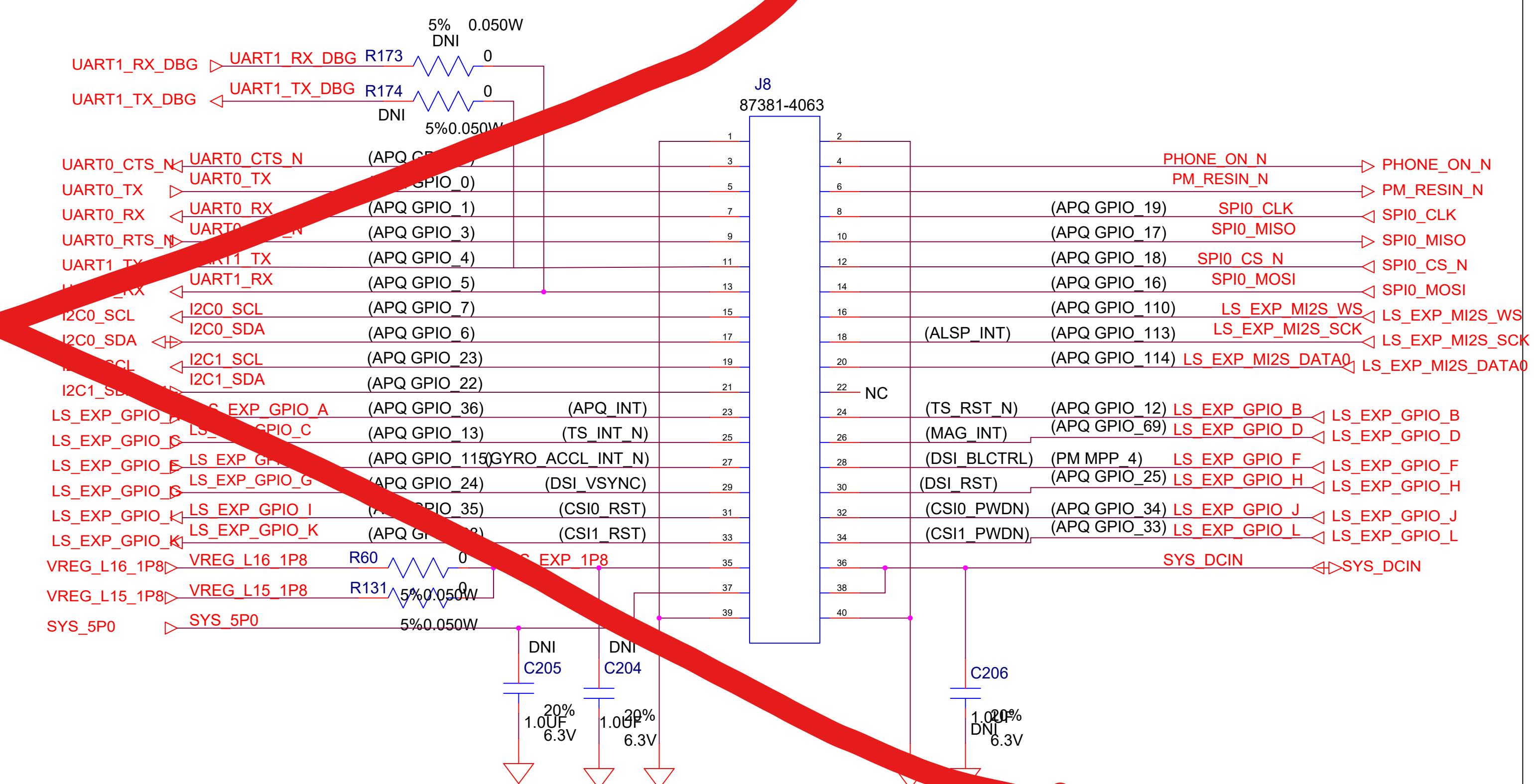


SWITCHES / LEDS



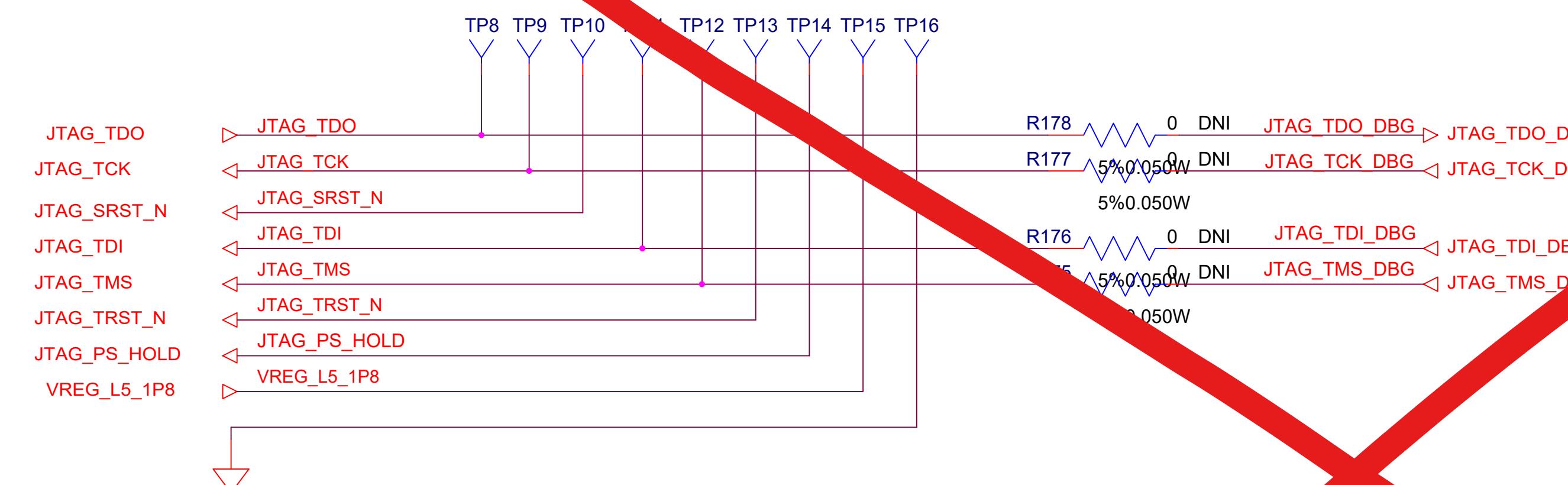
LS / HS EXPANSION CONNECTORS

HS EXPANSION CONNECTOR

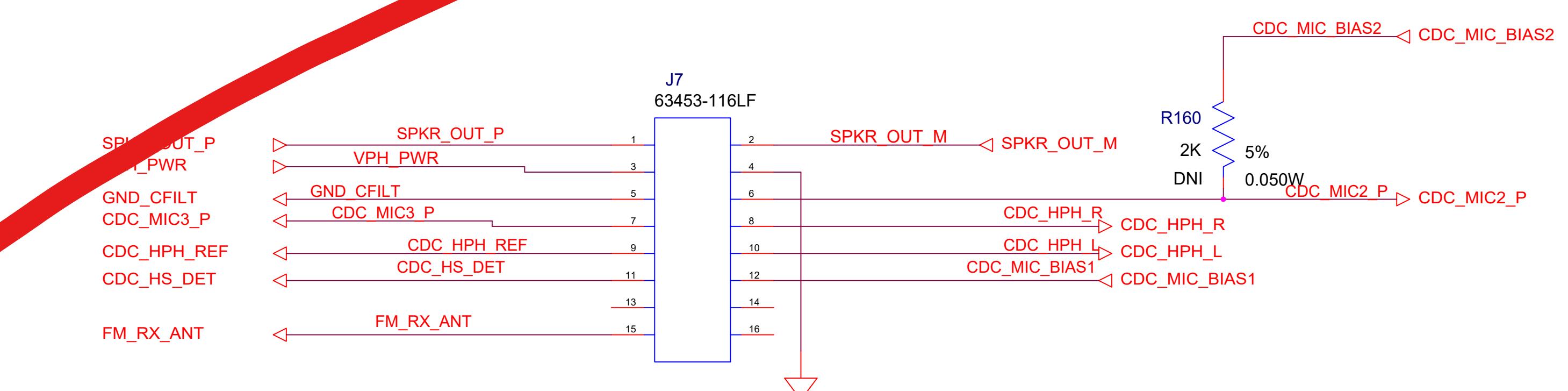


JTAG / UART / ANALOG EXPANSION CONNECTORS

JTAG INTERFACE (TOP)



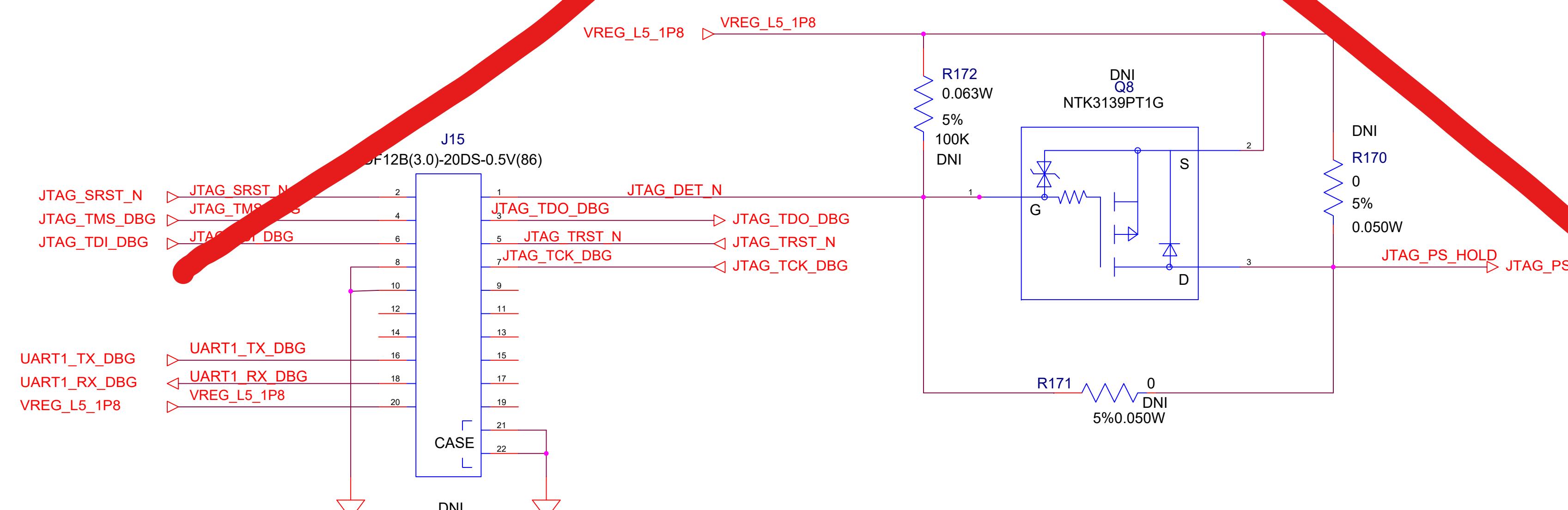
ANALOG EXPANSION CONNECTOR



ANALOG INTERFACES

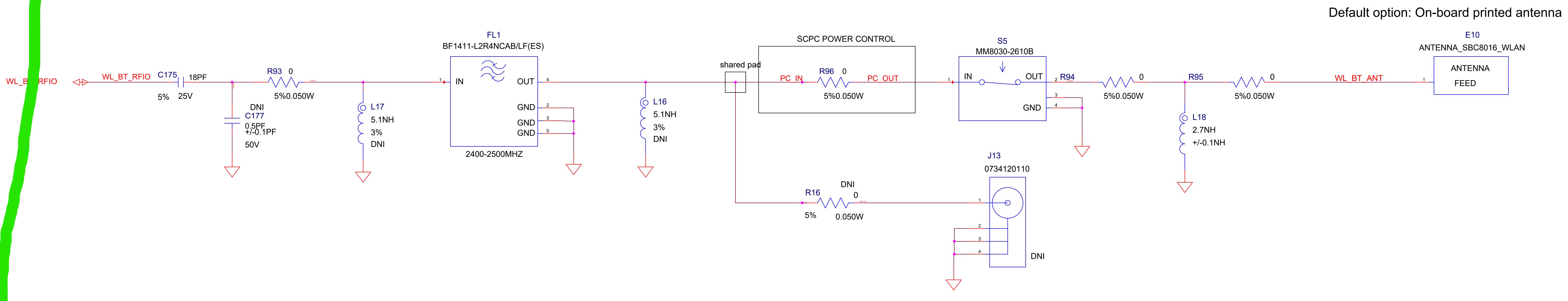
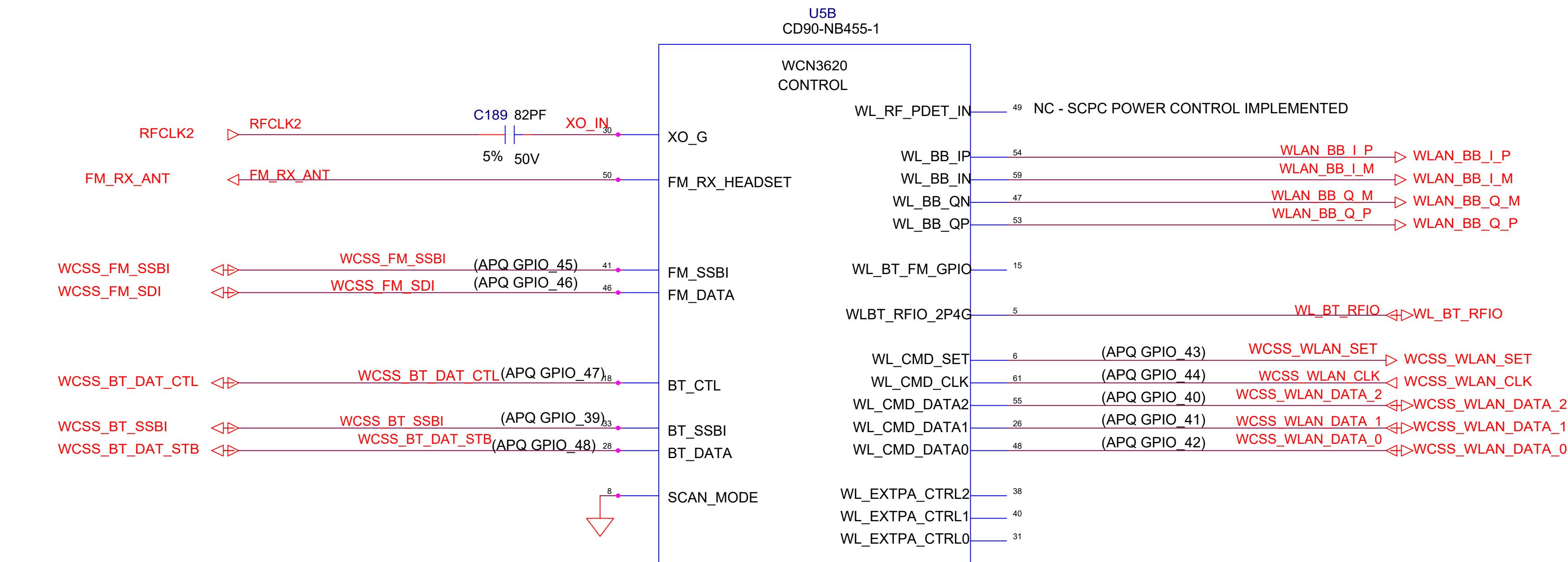
BOM CONFIG	SUPPORTED	ASSY OPTION
Hx0x	YES	INSTALL J15
Hx5x	NO	DNI J15

JTAG/UART INTERFACE TO 20-NR332 (BOTTOM) (BACKUP OPTION)



WCN3620 RF & CONTROL

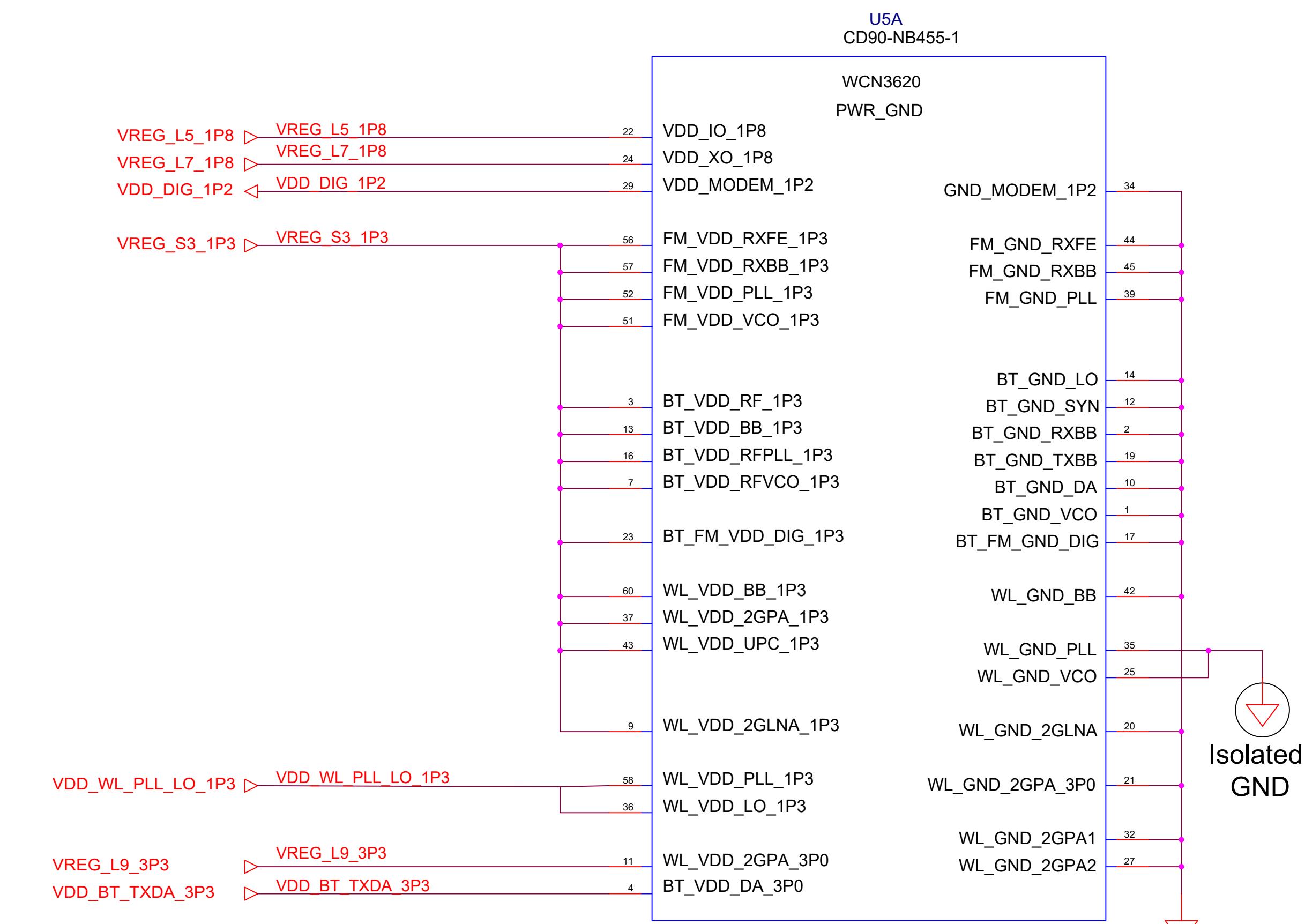
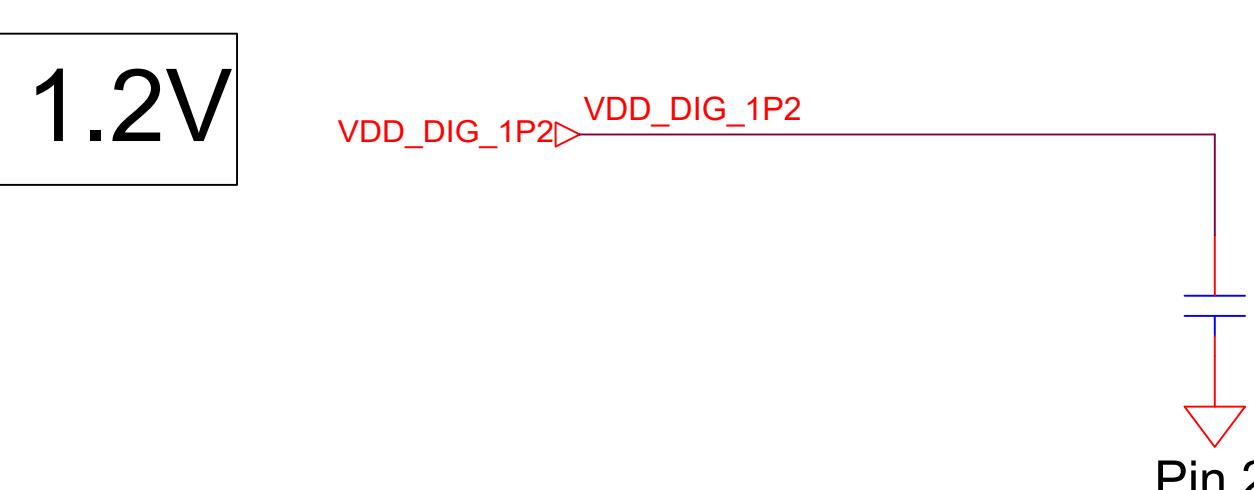
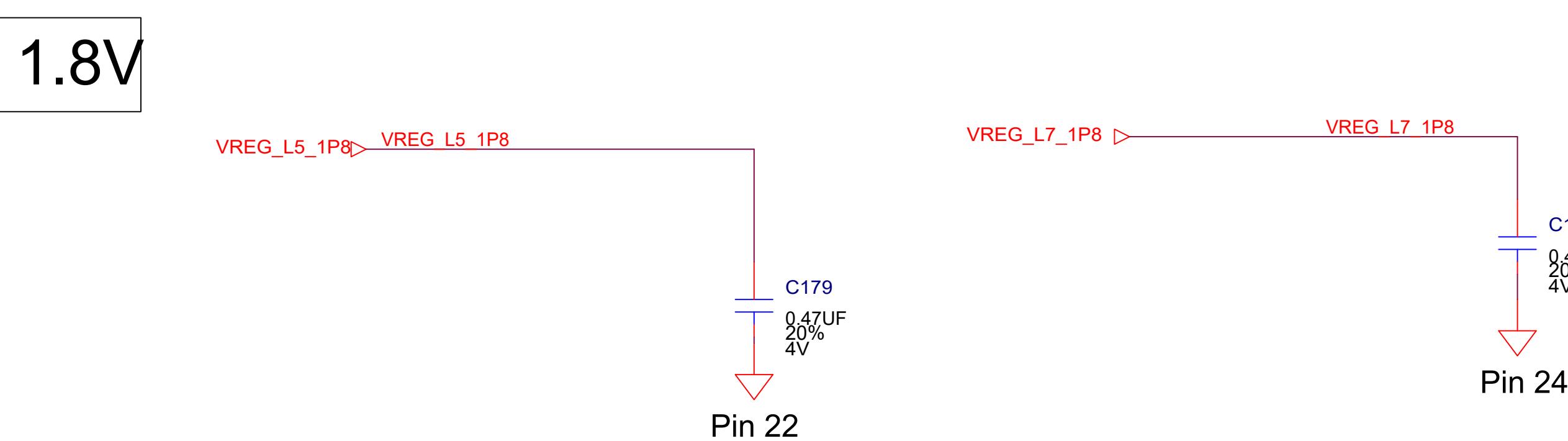
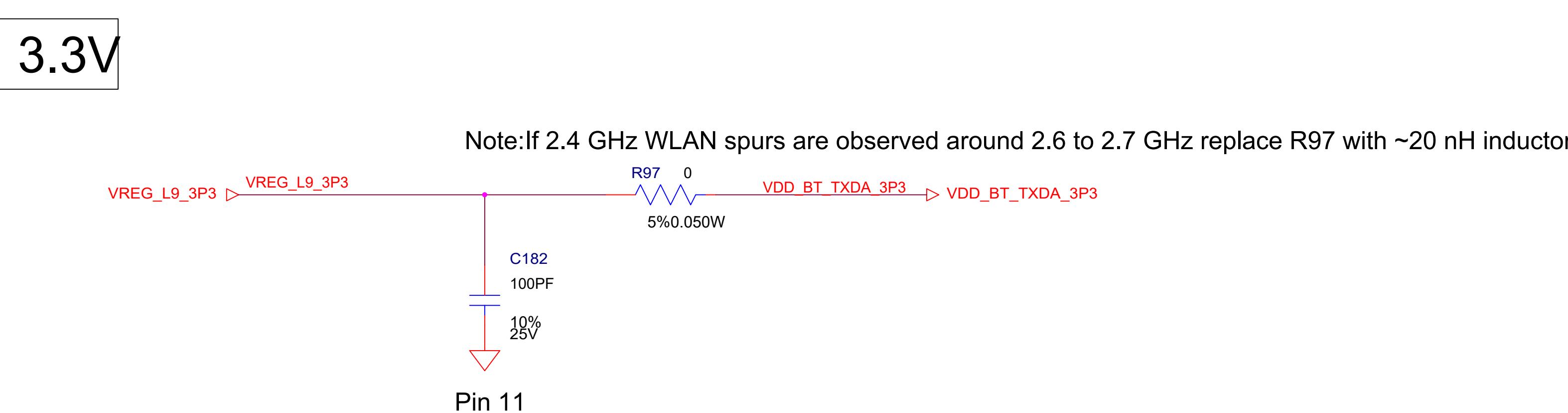
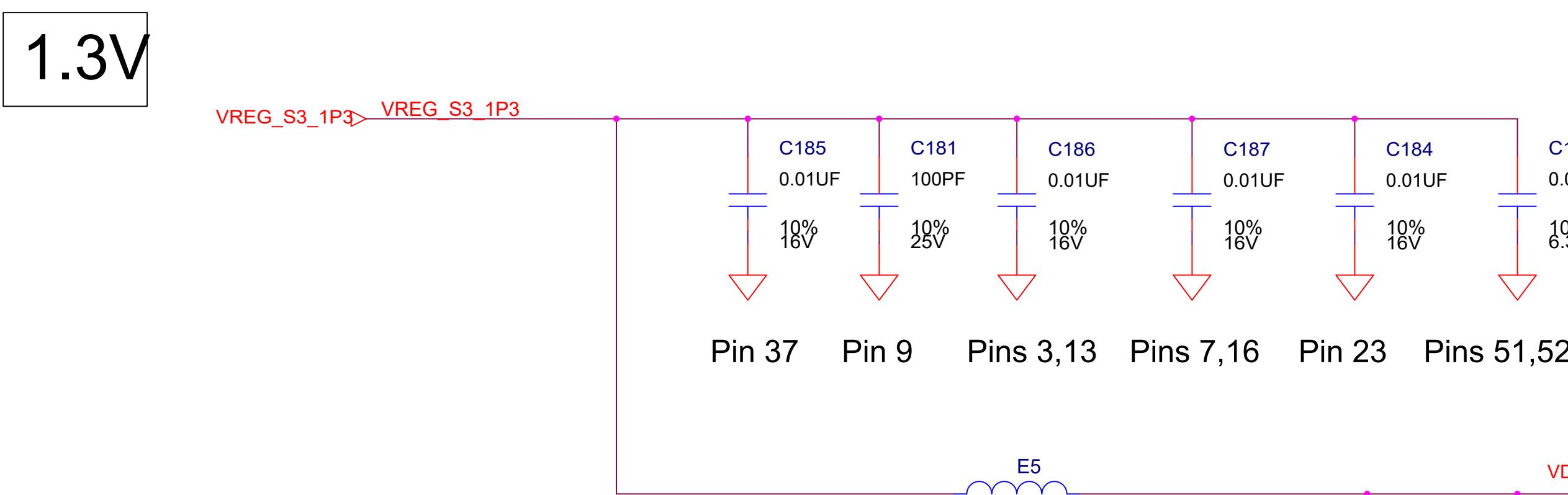
WCN & WGR Circuitry Shield



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Stuffing option: UFL connector for external antenna

WCN3620 PWR & GND



WGR7640 - GPS

