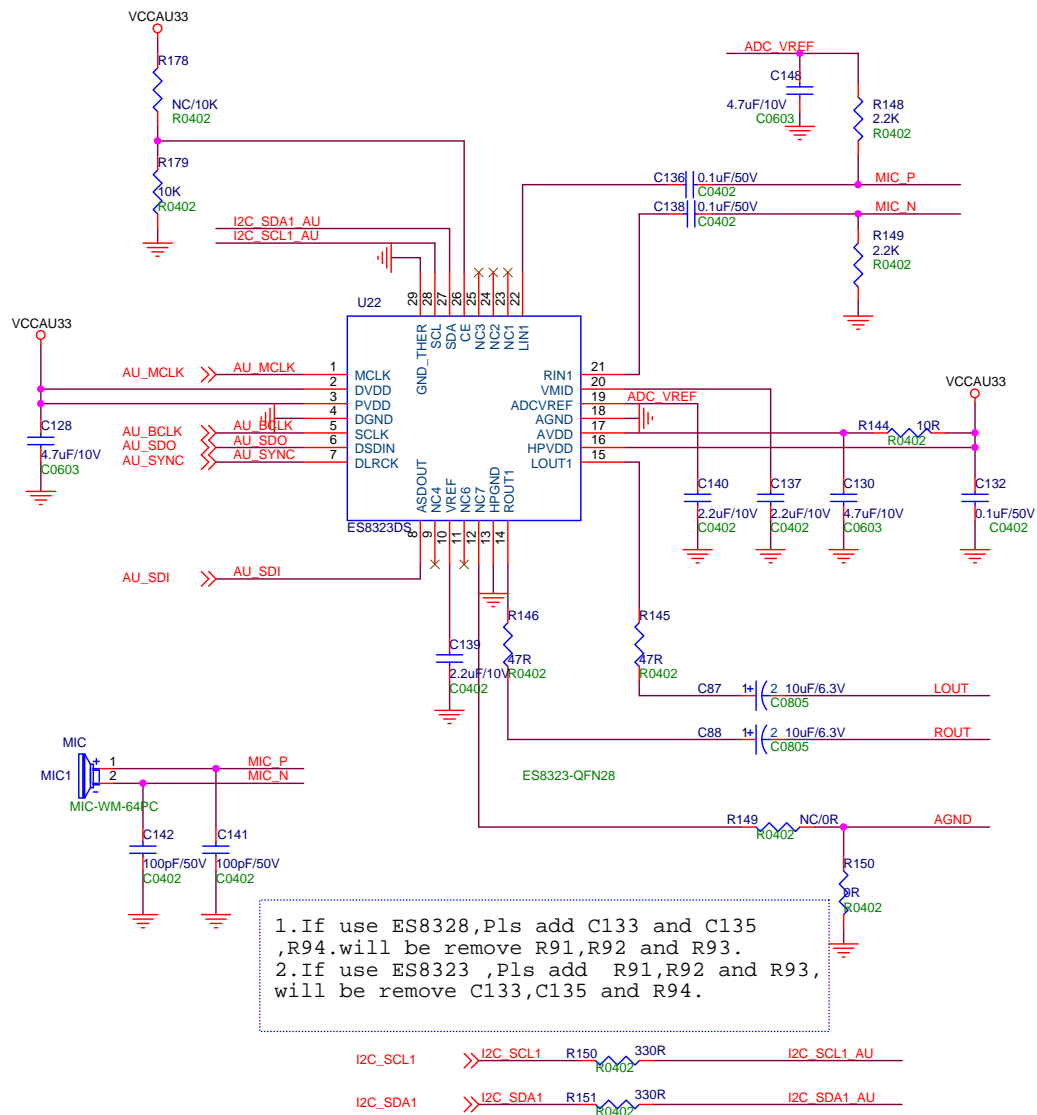
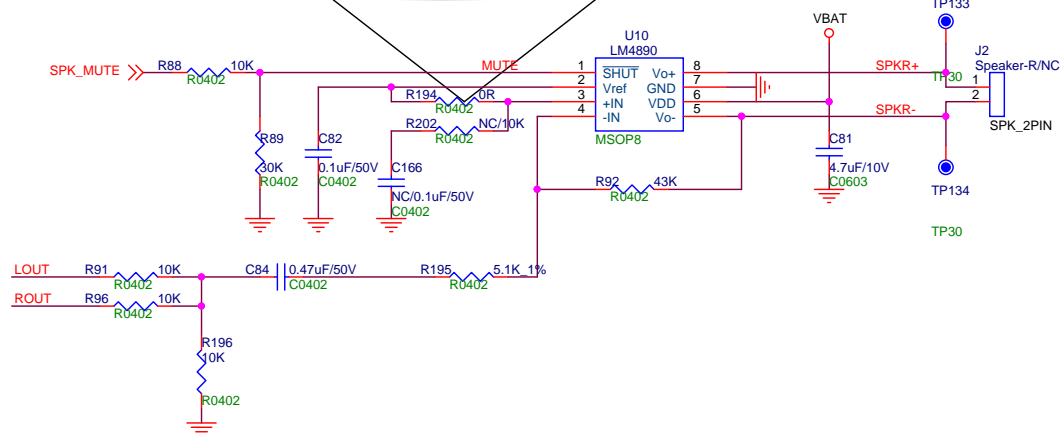


Audio codec ES8323

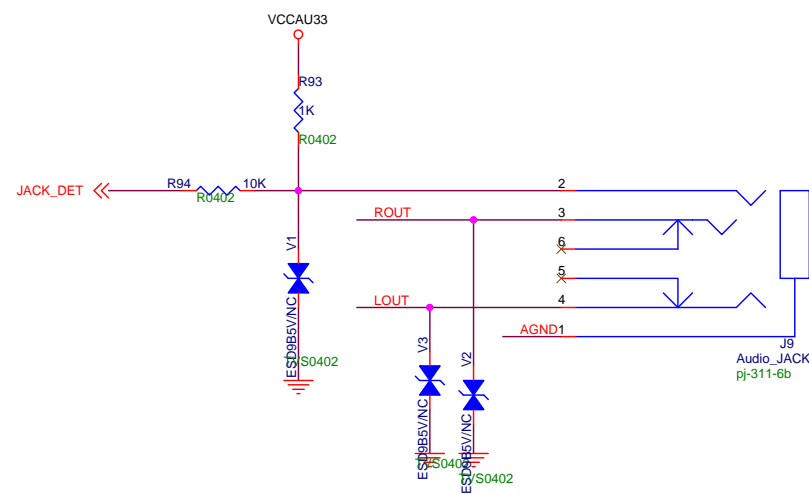


Amplifier

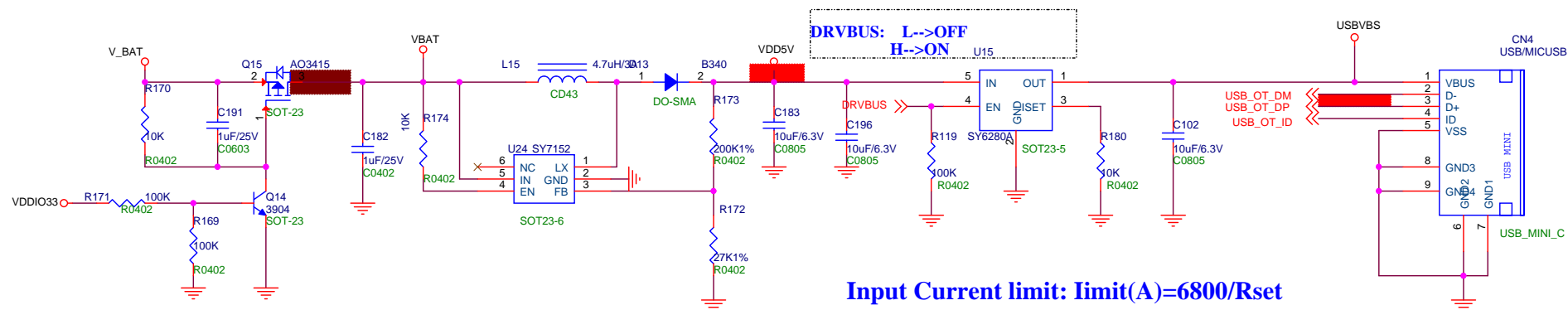
If use LM4890,pls change R194 Value for 0, other value Pls reference amplifier application



EarPhone

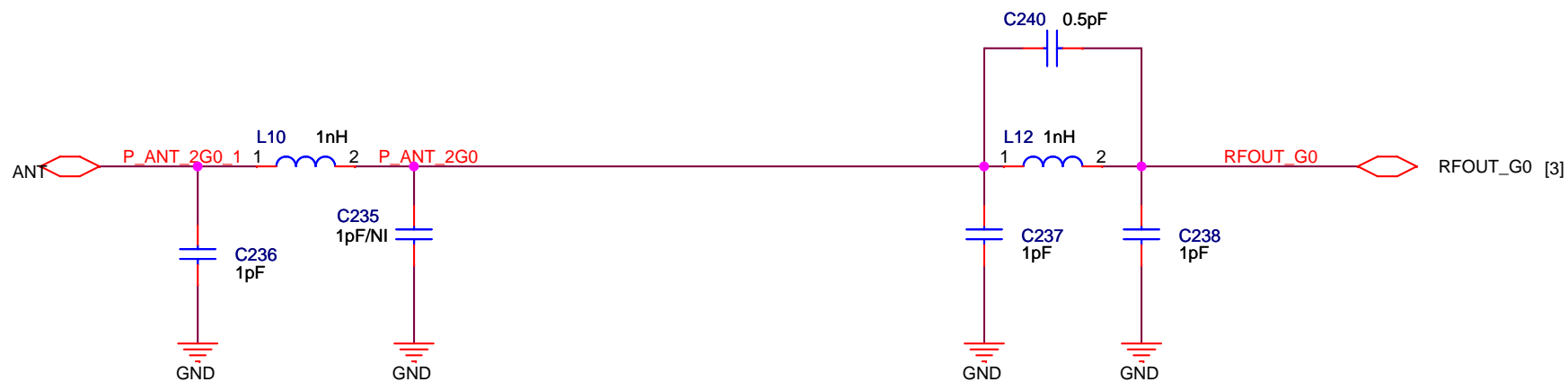


OTG/HOST/Charger

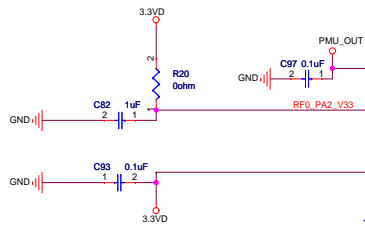
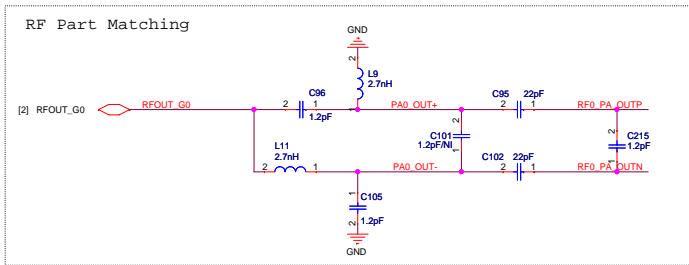


Trace width should greater than 70mil

[3]



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TP6

TP5

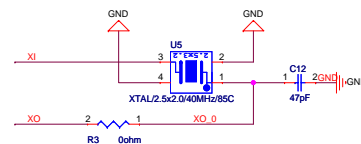
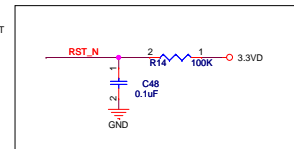
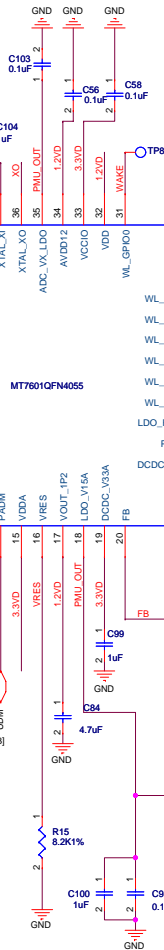
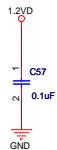
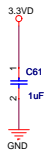
TP4

EE_MISO

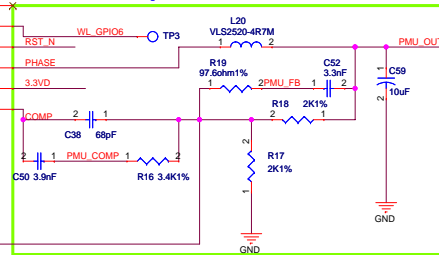
EE_MOSI

EE_CLK

1.2VD



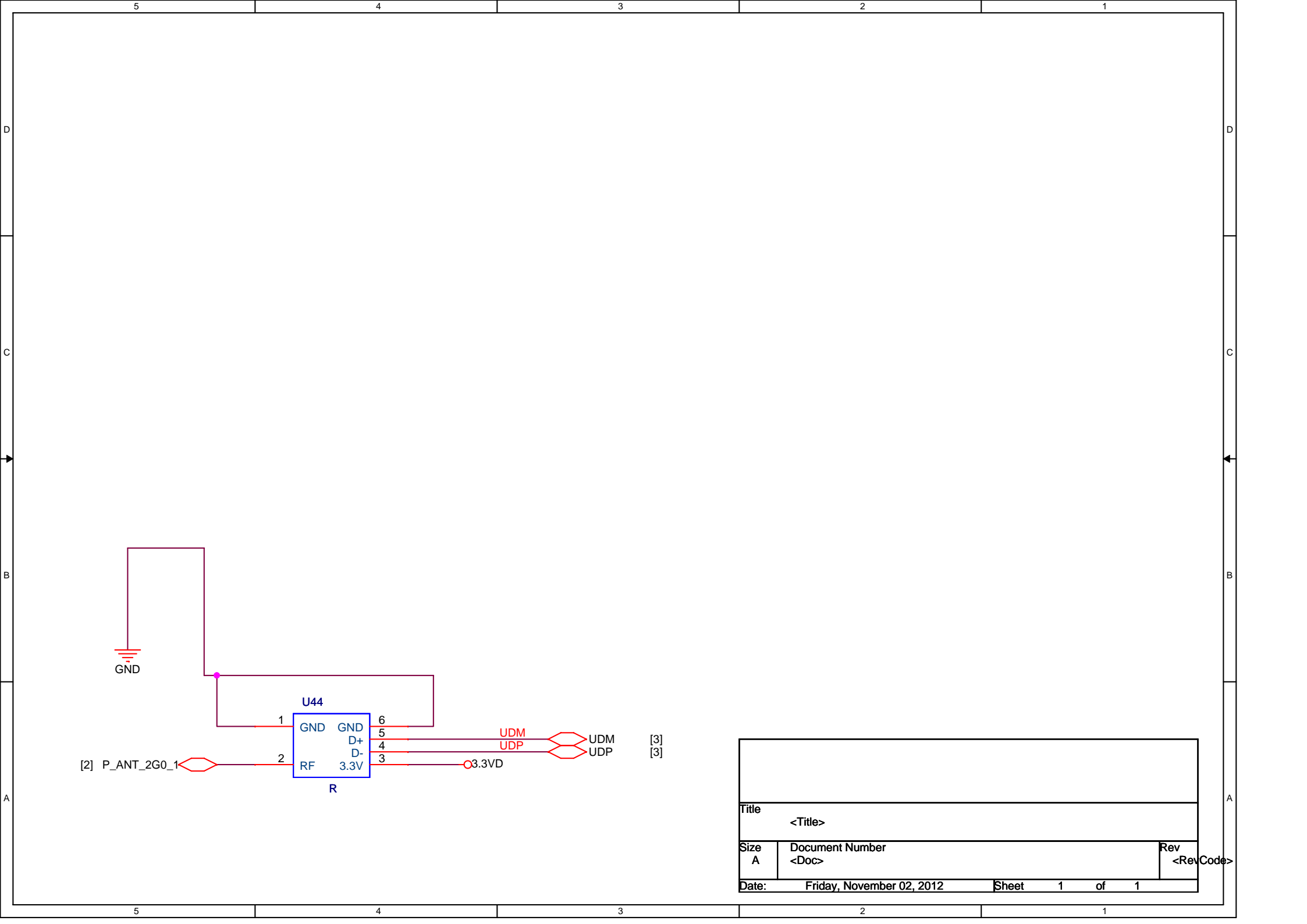
1. Using PMU and Translate 1.5V		
	PLL_LDO 3.3V Input	
R8 0 ohm	NI	
R7 0 ohm	ON	
C38 30pF, C50 1.5nF		
R16 8.2K, R19 100 ohm		
C52 3.3nF, R18 2K		
L20 4.7uH, C59 10uF		
R17 2K		
	ON	
	PMU 10uF Setting	
	PMU_OUT = 1.5V	



Boot Strapping (Internal Pull High/Low)

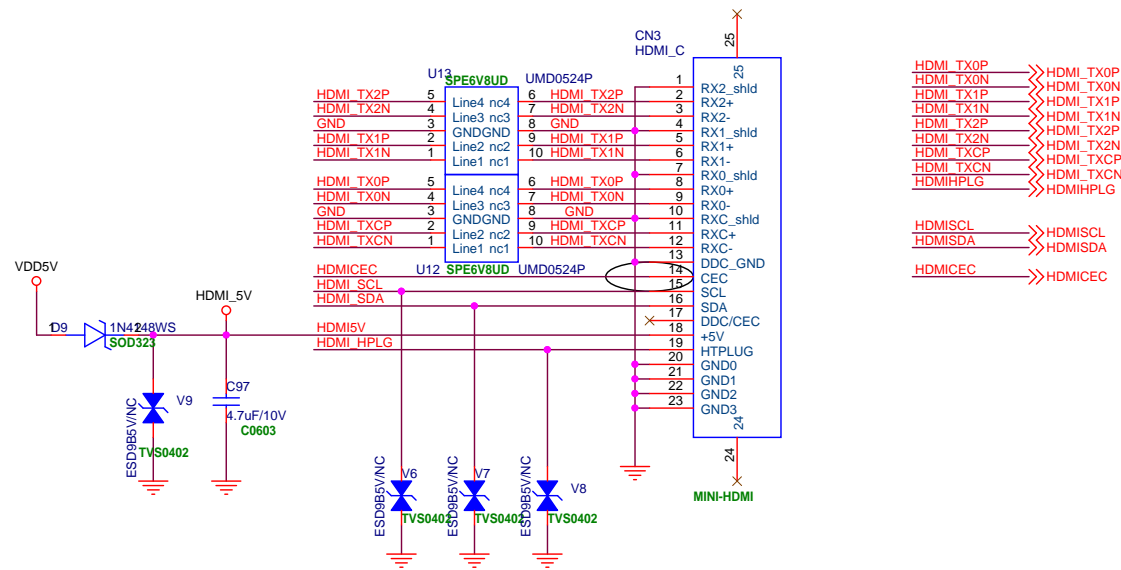
EE_MISO	0 : 40MHz Xtal 1 : 20MHz Xtal
WL_GPIO4	0 : E-fuse 1 : EEPROM
WL_GPIO6	PCI-E Mode
EE_CLK	000:Normal Boot from RAM
EE_MOSI	USB Mode
	001:Normal Boot from ROM
	010:Normal Boot from Serial Flash
	011:Normal Boot from Serial EEPROM
	100:SPI mode
	Boot from RAM
	101: Scan mode + bypass PLL
	110: Test mode
	111: Test mode + bypass PLL

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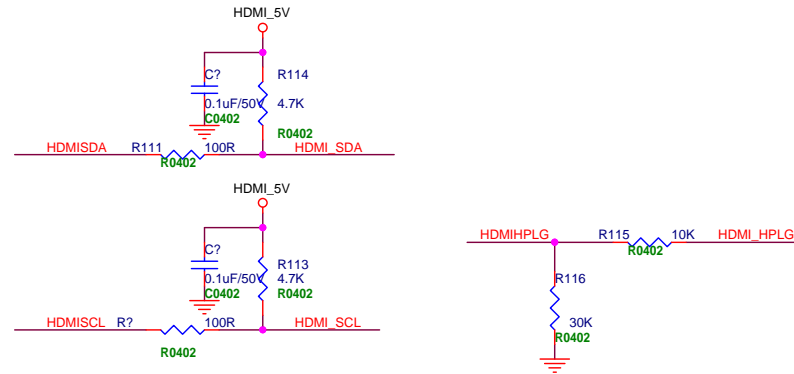


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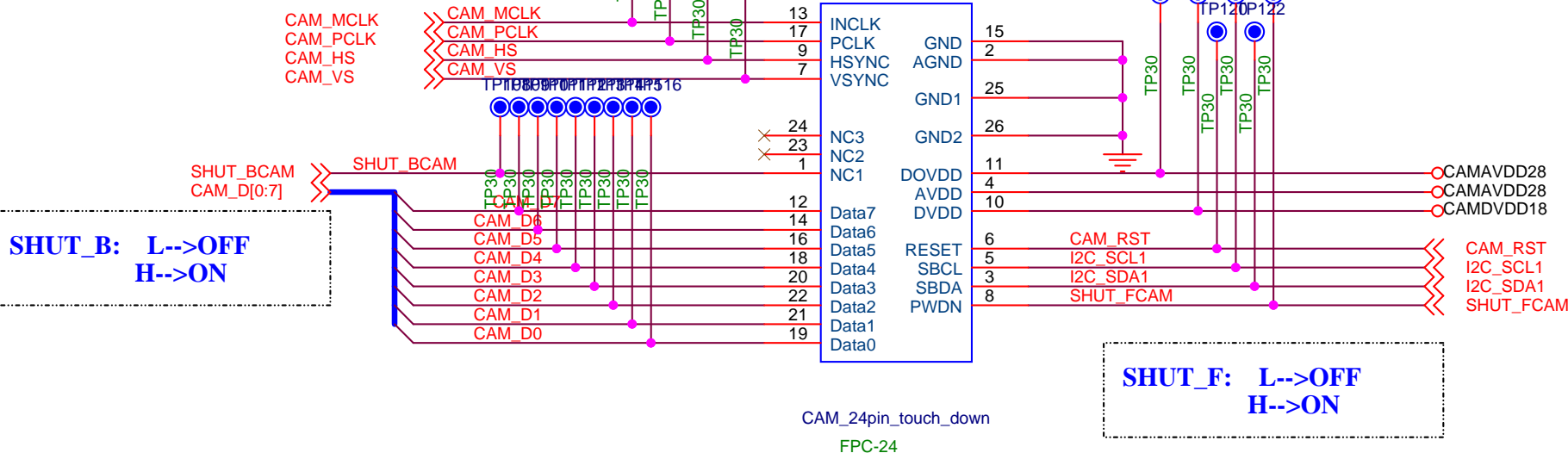
HDMI Connector



HDMI Level Shifter

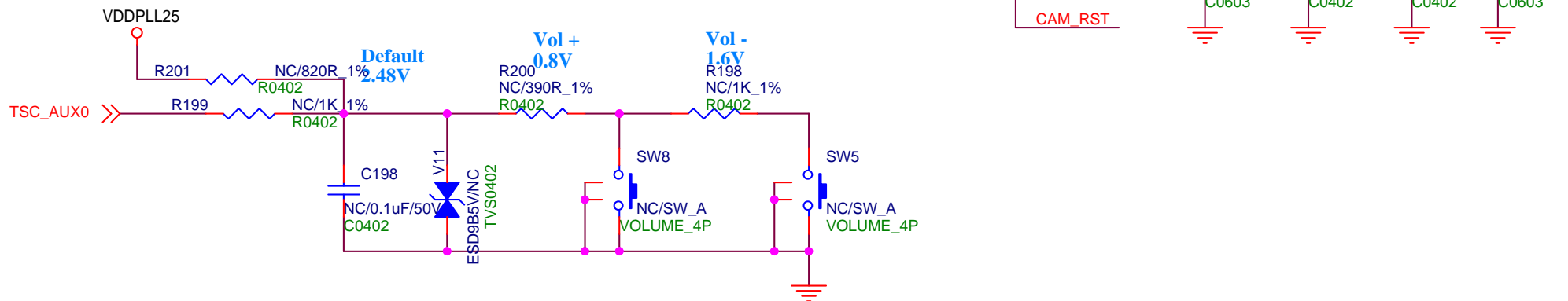


Camera

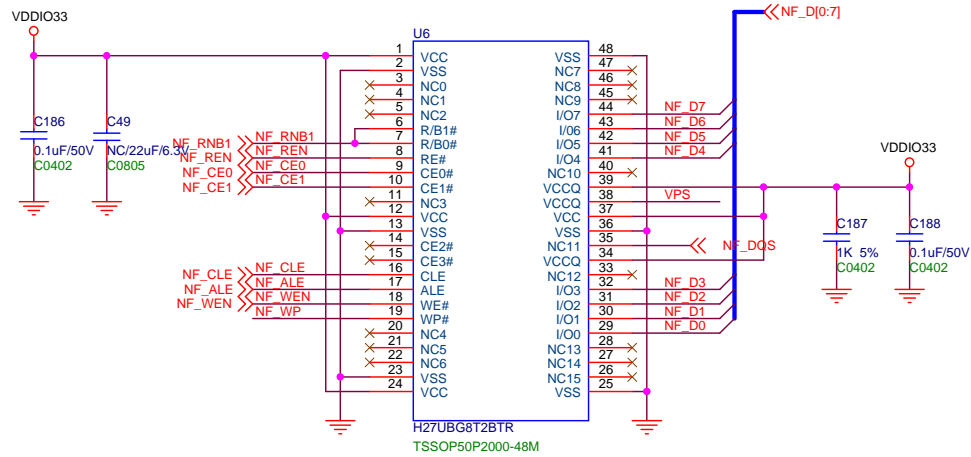


CAM_24pin_touch_down
FPC-24

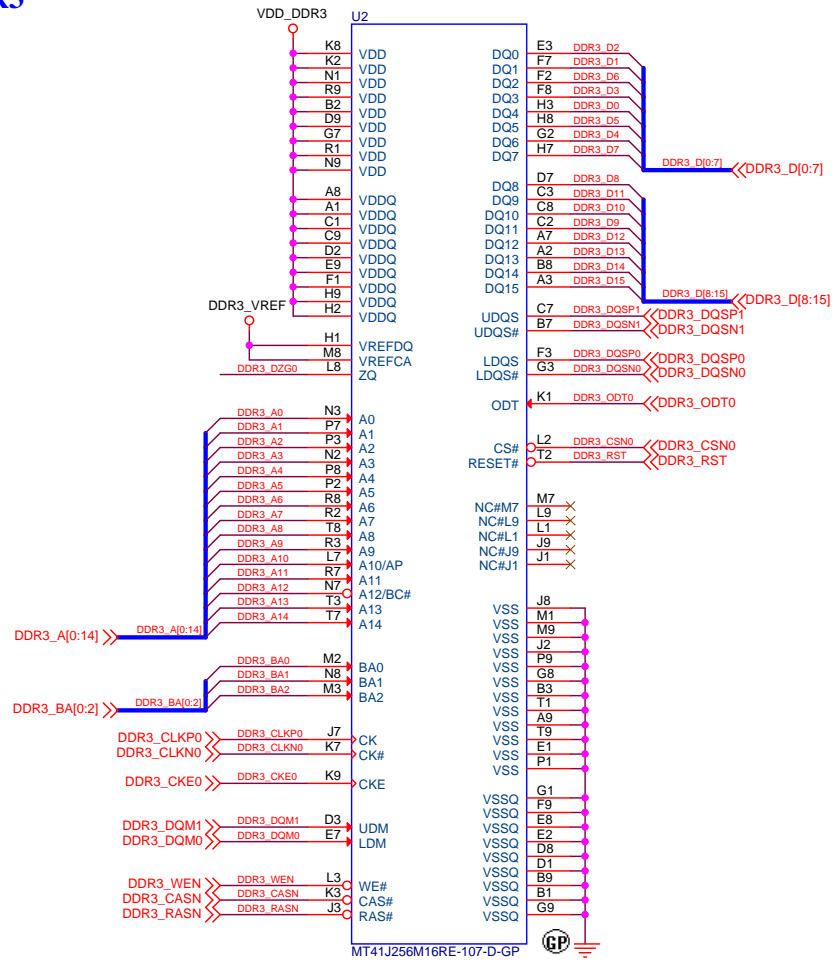
Function Keys



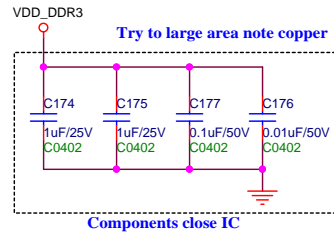
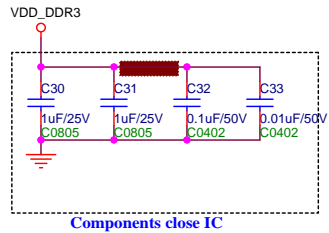
NAND Flash memory



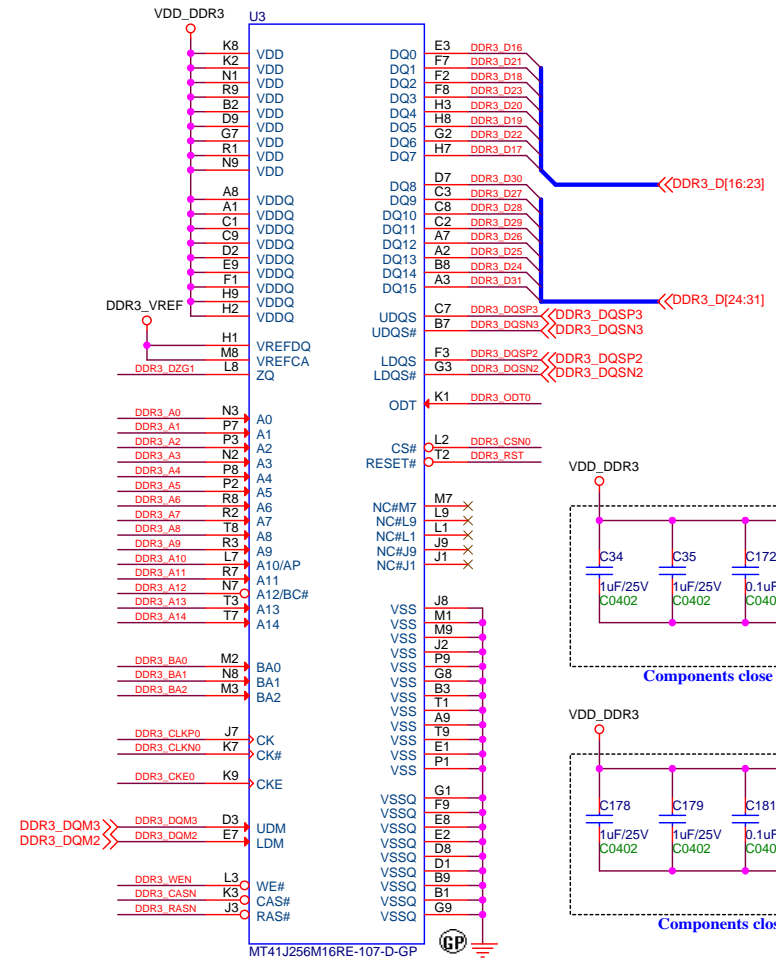
DDR3



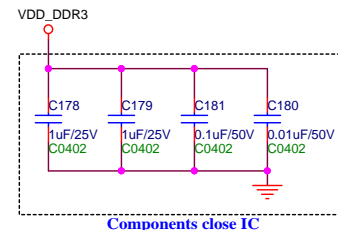
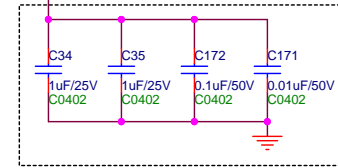
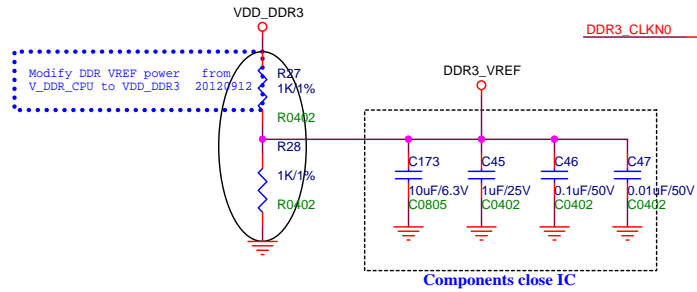
BGA-13X9_96P_0_8



Try to large area note copper

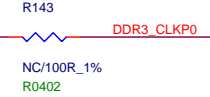


Try to large area note copper



Components close IC

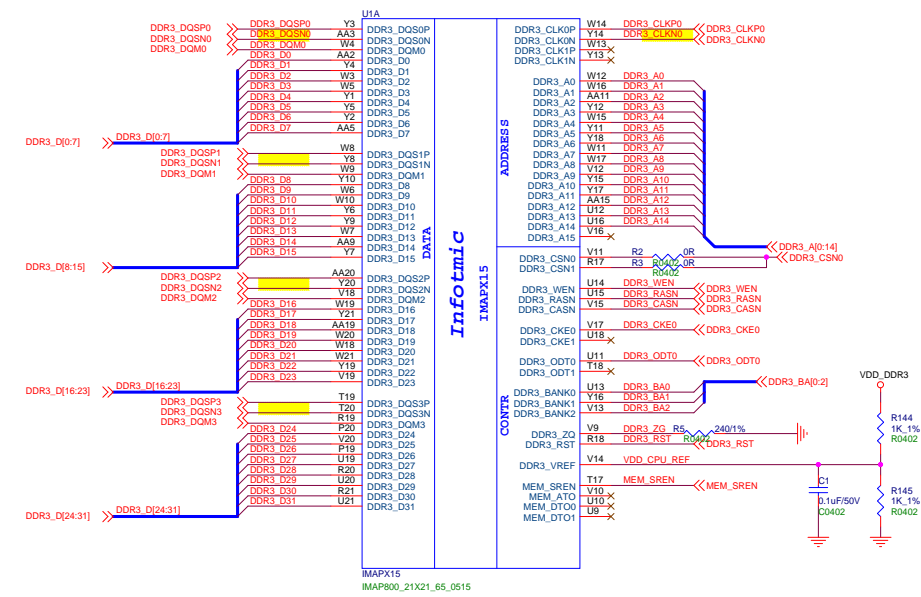
Components close IC



NC/100R_1%

R0402

DDR3 Interface



DDR3 Memory Layout Rules

- Address and Command Signals Routing Rules:**

 - Trace Total length 2.5 to 4.5 inches
 - Trace width=5mils
 - Trace space=12 to 15mils
 - Impedance= target 50 Ohm
 - Trace space to other signal groups = 20 to 25 mils
 - length=±20 mils of Length Matching
- Control Signals Routing Rules**

 - Trace Total length 2.5 to 6.0 inches
 - Trace width=5mils
 - Trace space=12 to 15mils
 - Impedance= target 50 Ohm
 - Trace space to other signal groups = 20 to 25 mils
 - length=±20 mils of Length Matching
- Data Group Signals Routing Rules:**

 - Trace Total length 2.5 to 4.5 inches
 - Trace width=8mils
 - Trace space=12mils minimum
 - Impedance= target 50 Ohm
 - Trace space to other signal groups = 12 mils
 - length=±20 mils of Length Matching
- Clock Signals Routing Rules:**

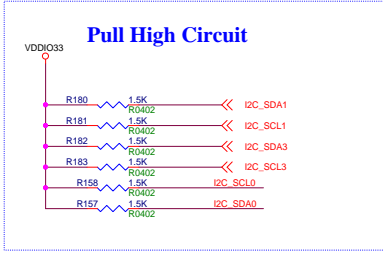
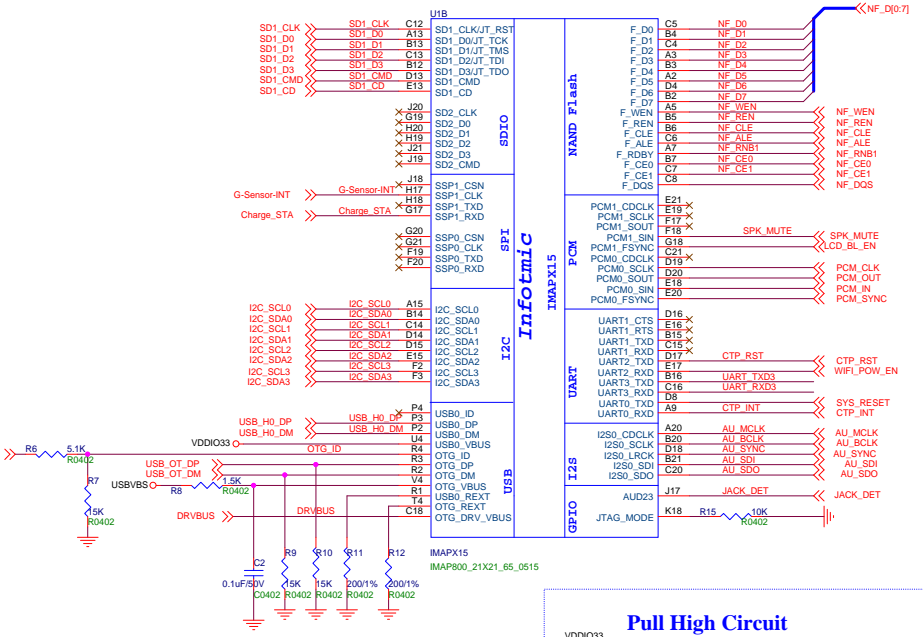
 - Trace Total length 1.9 to 5.0 inches
 - Trace width=8mils
 - Trace space=5 mils
 - Impedance= target 100 Ohm
 - Trace space to other signal groups = 20 mils
 - length=±10 mils Length Matching
- DQS Differential Strobe Signals Routing Rules:**

 - Trace Total length 2.5 to 4.5 inches
 - Trace width=8mils
 - Trace space=4 mils minimum
 - Impedance= target 100 Ohm
 - Trace space to other signal groups = 15 mils
 - length=±20 mils of Length Matching

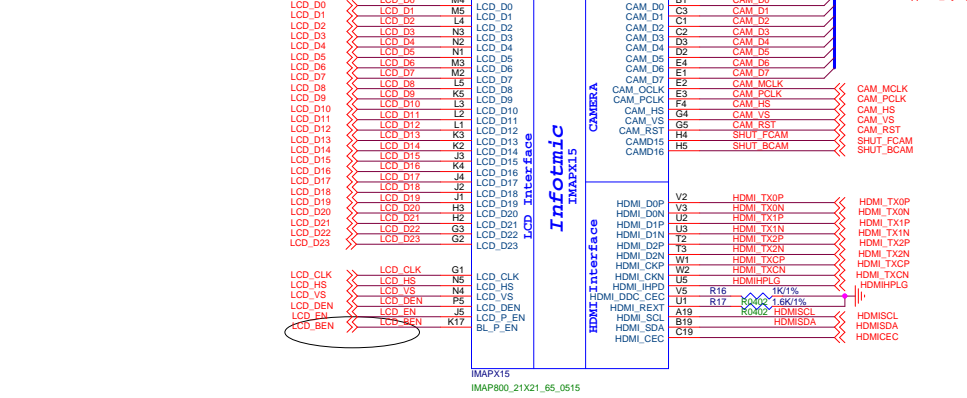
Note: More detailed description please reference DDR3 Layout Guide

Difference line impedance for 100R

SDIO/UART/I2C/I2S/USB/SPI/NAND Interface



LCD/HDMI/CAMERA Interface



Different LCD Display will have different application please Ref LCD signal connection

Processor	LCD Controller	Processor	LCD Controller	Processor	LCD Controller
LCD_0	blue data 0	LCD_8	Green data 0	LCD_16	Red data 0
LCD_1	blue data 1	LCD_9	Green data 1	LCD_17	Red data 1
LCD_2	blue data 2	LCD_10	Green data 2	LCD_18	Red data 2
LCD_3	blue data 3	LCD_11	Green data 3	LCD_19	Red data 3
LCD_4	blue data 4	LCD_12	Green data 4	LCD_20	Red data 4
LCD_5	blue data 5	LCD_13	Green data 5	LCD_21	Red data 5
LCD_6	blue data 6	LCD_14	Green data 6	LCD_22	Red data 6
LCD_7	blue data 7	LCD_15	Green data 7	LCD_23	Red data 7

