

3G4GPA

ハケモテQM56022(9130113)

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A

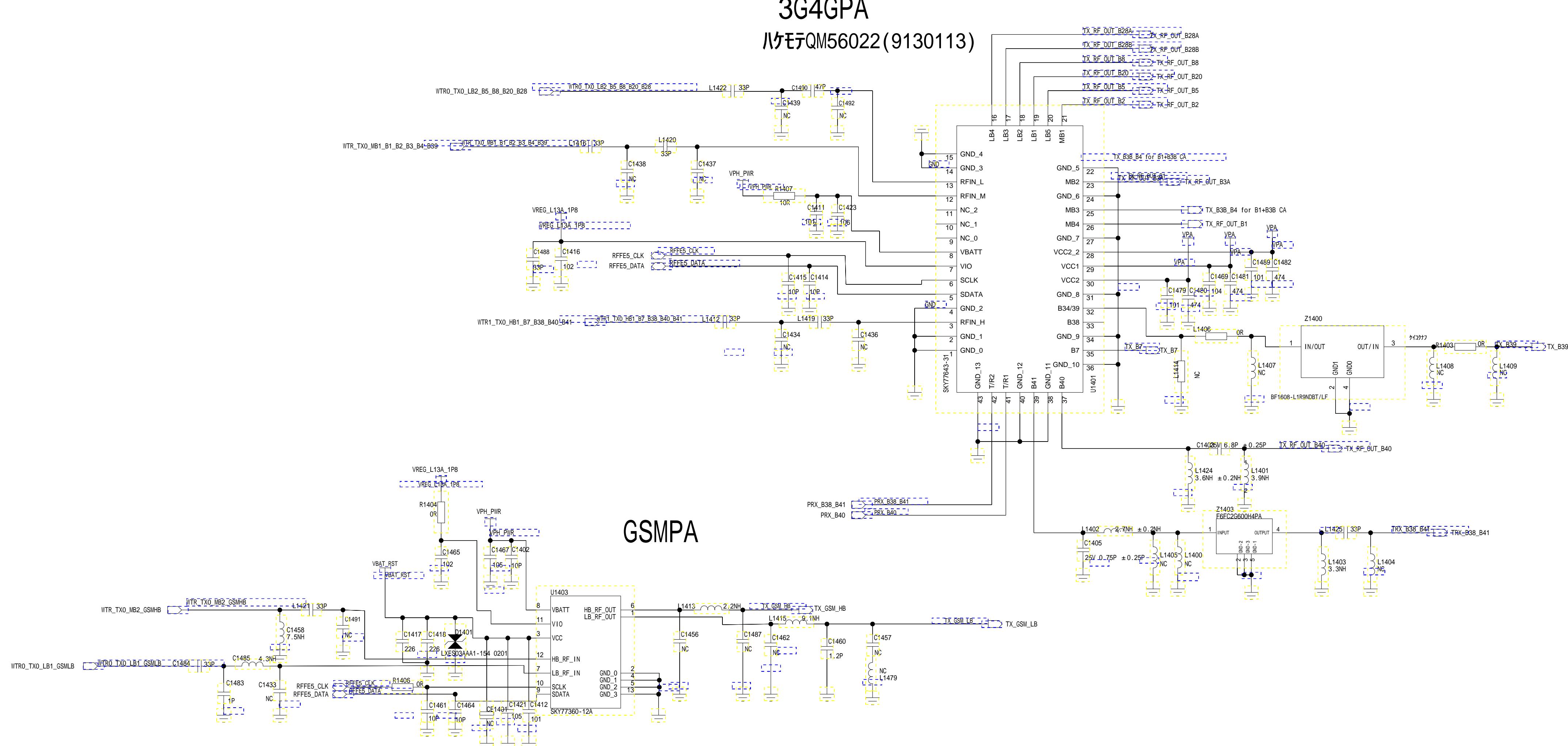
B

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GSMPA

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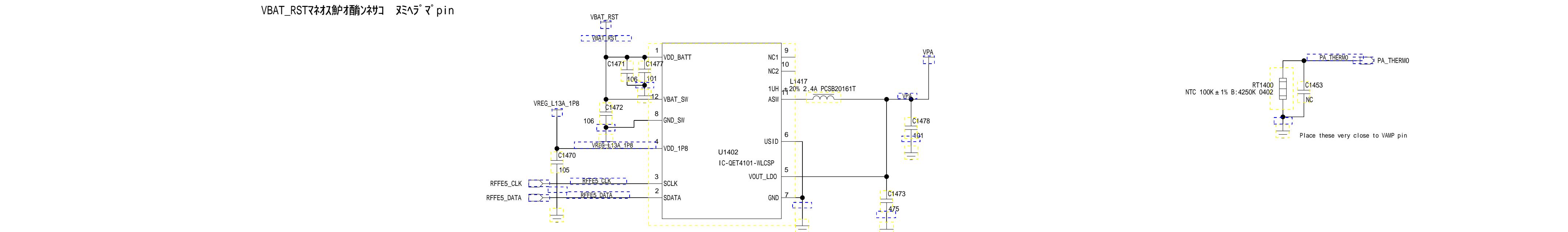
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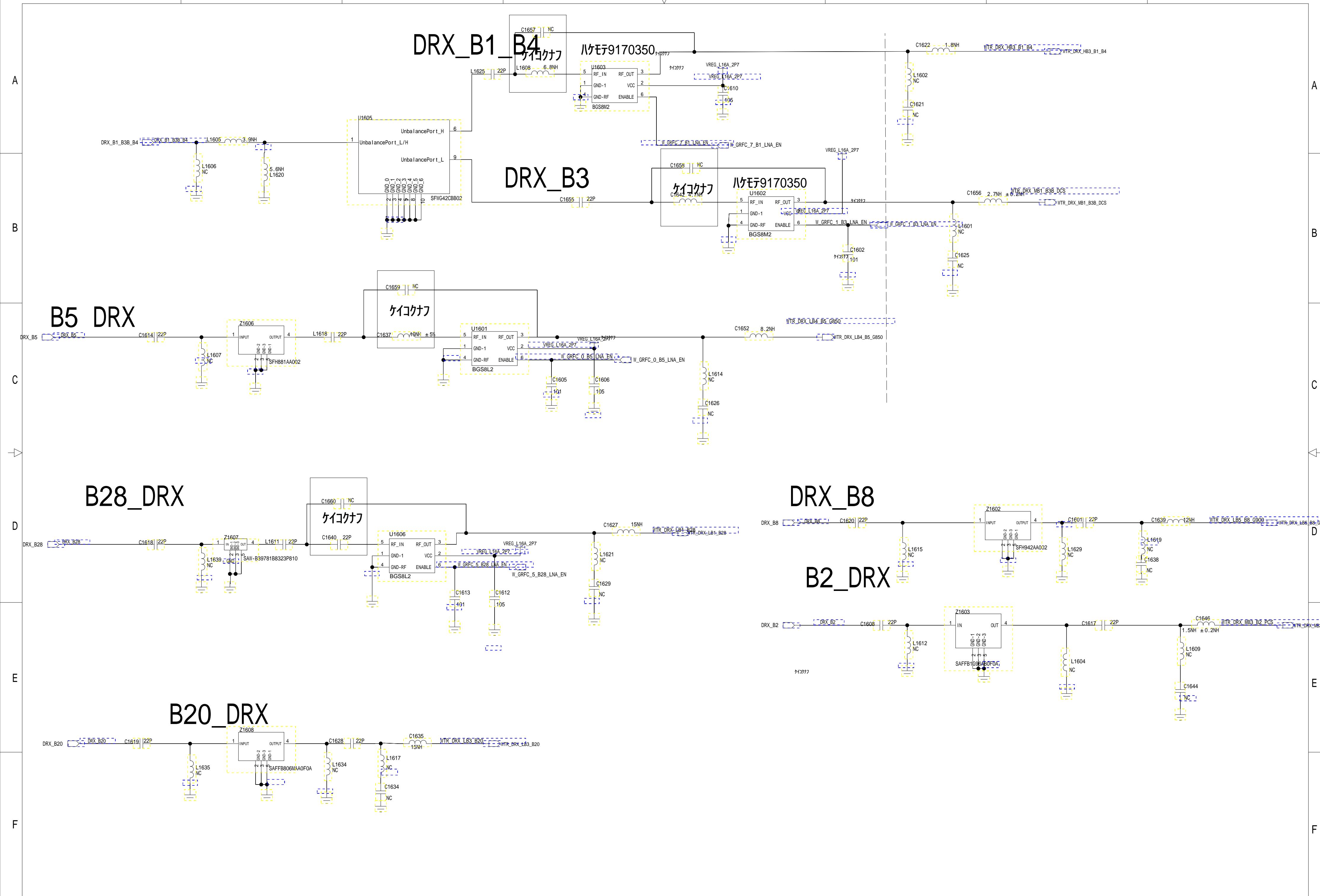
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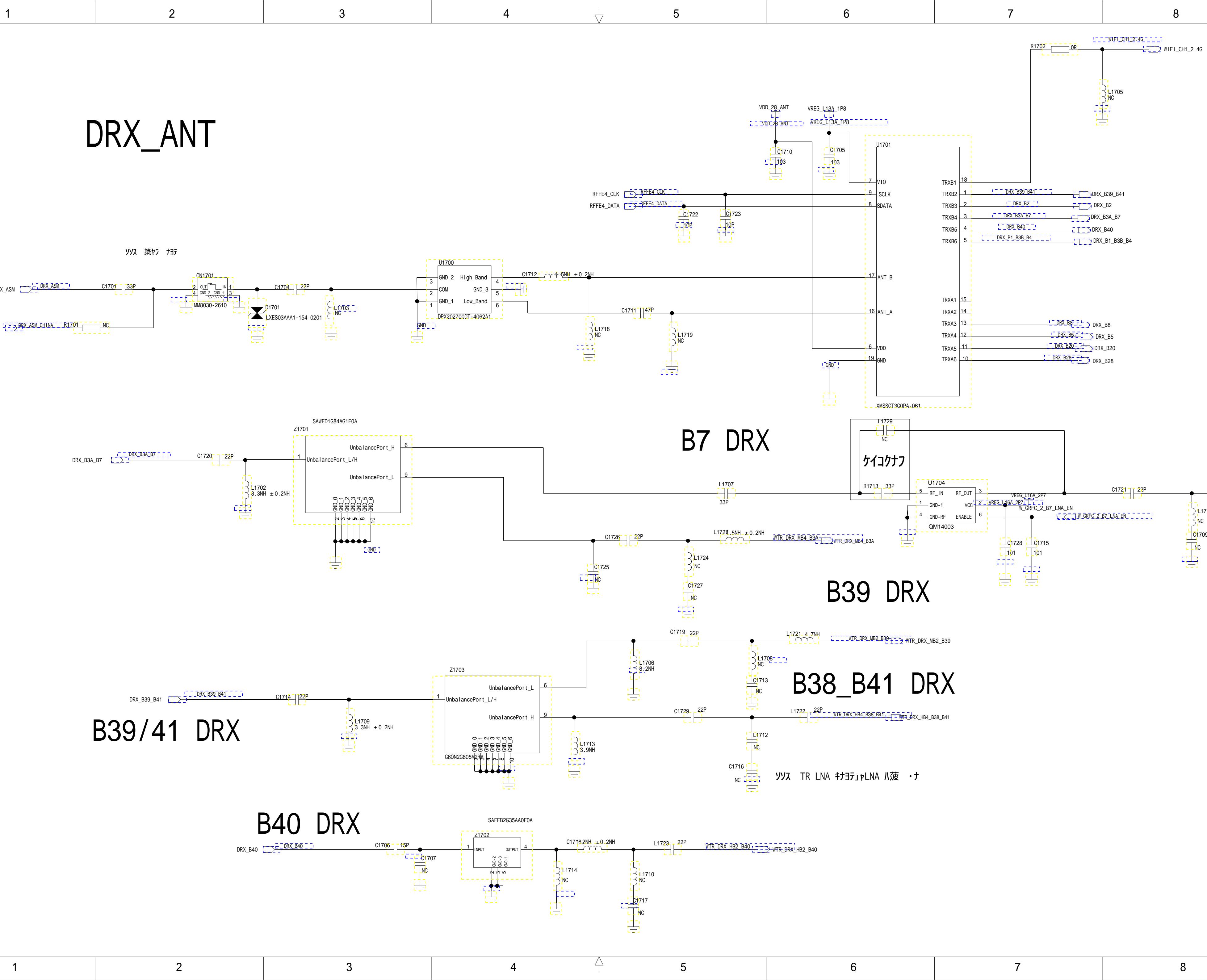
7

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VBAT_RST ネオズ鉛才醸ンネコ スミヘラマ pin

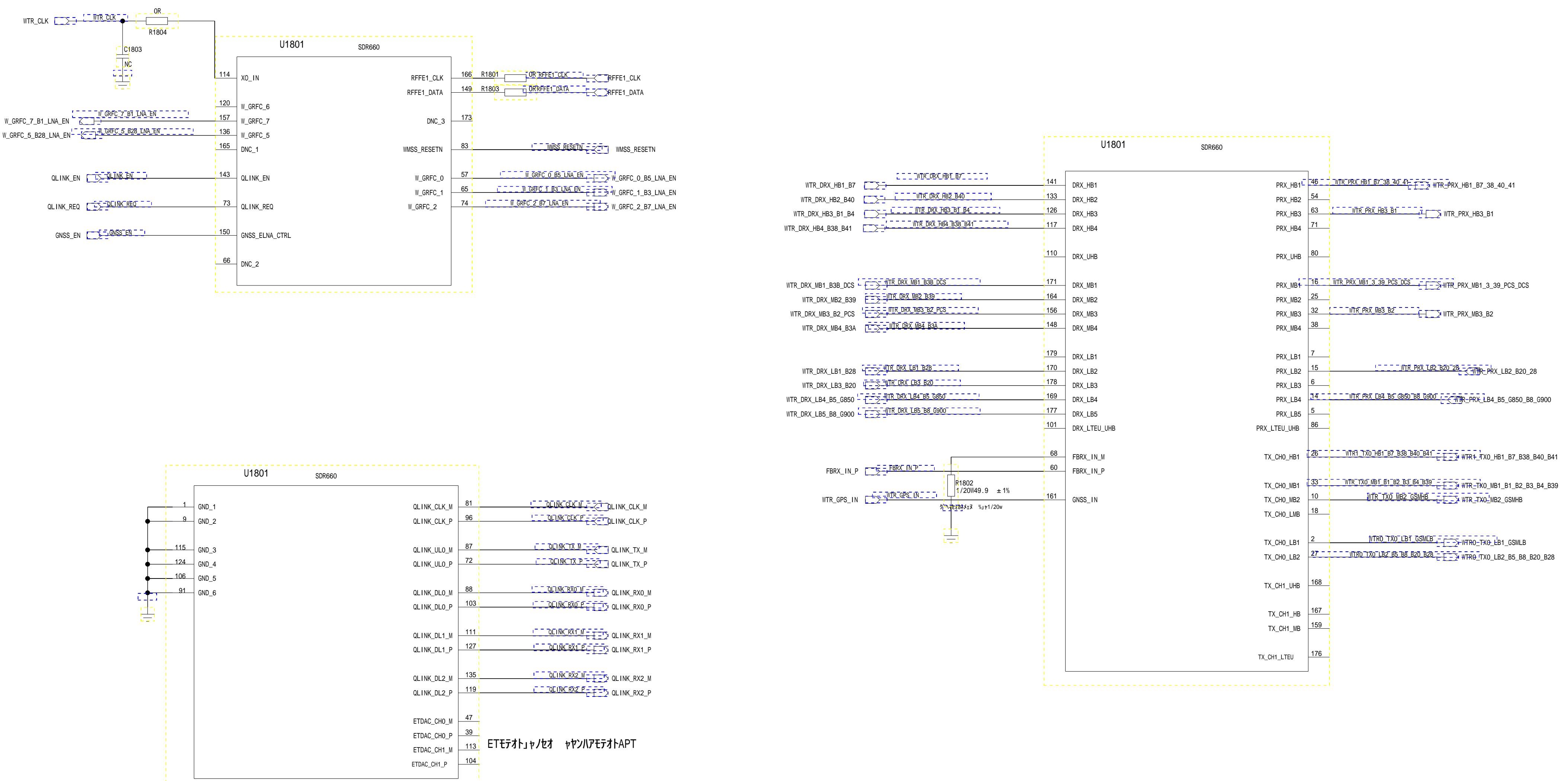






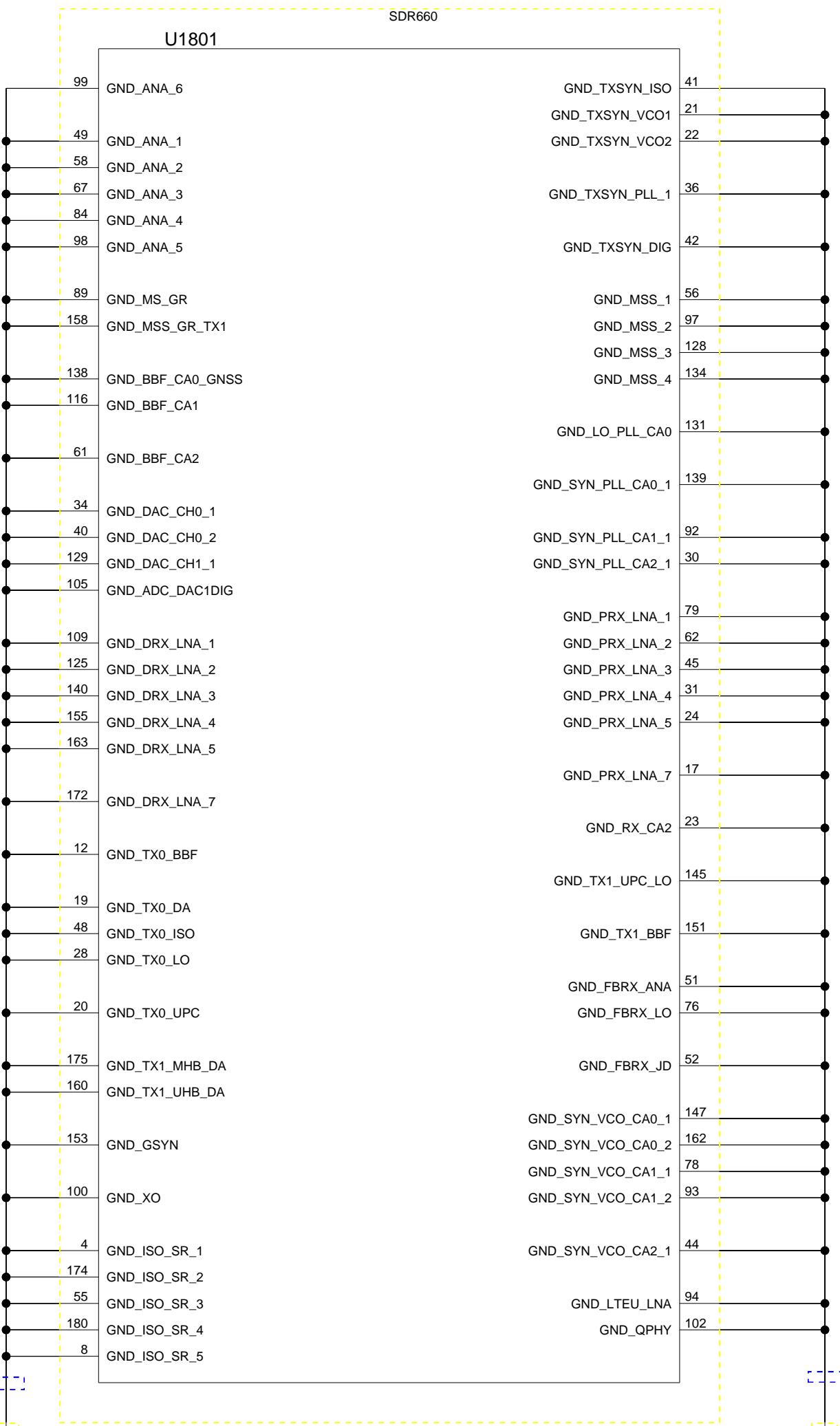
SDR660

SDR660 controlモル



SDR660オト釀エスモル

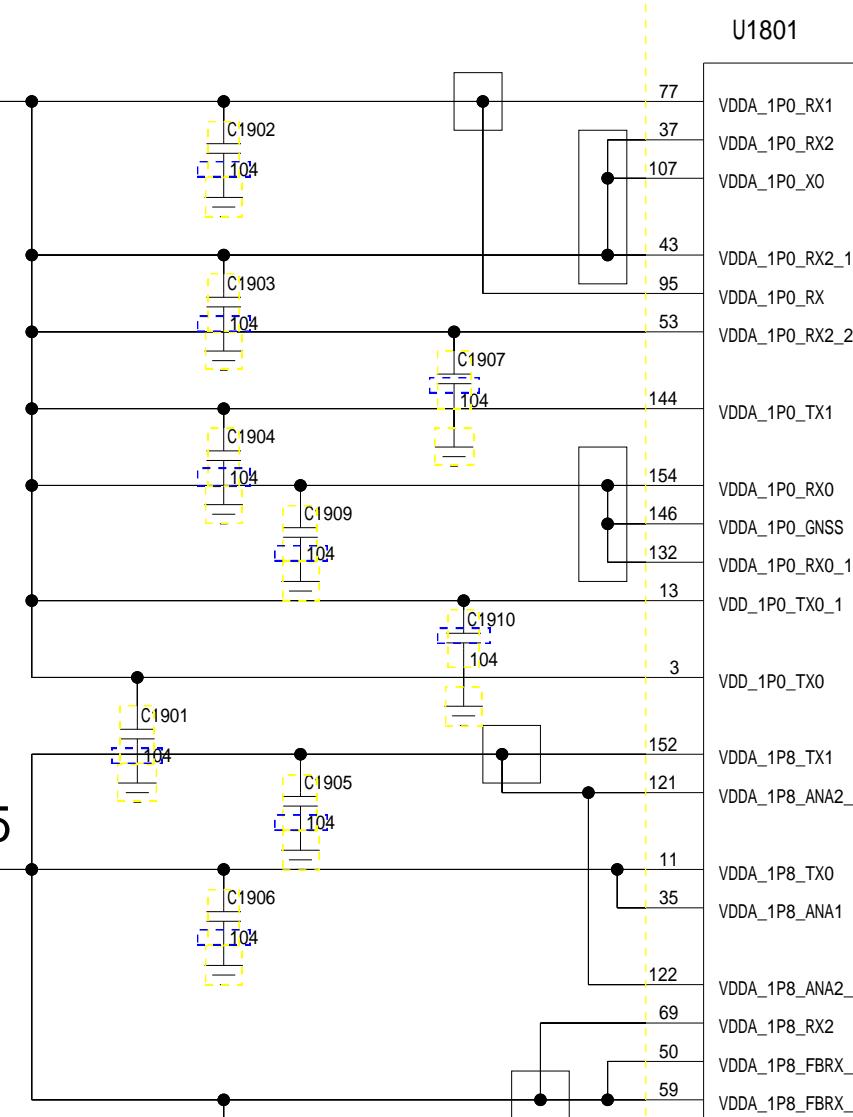
SDR660

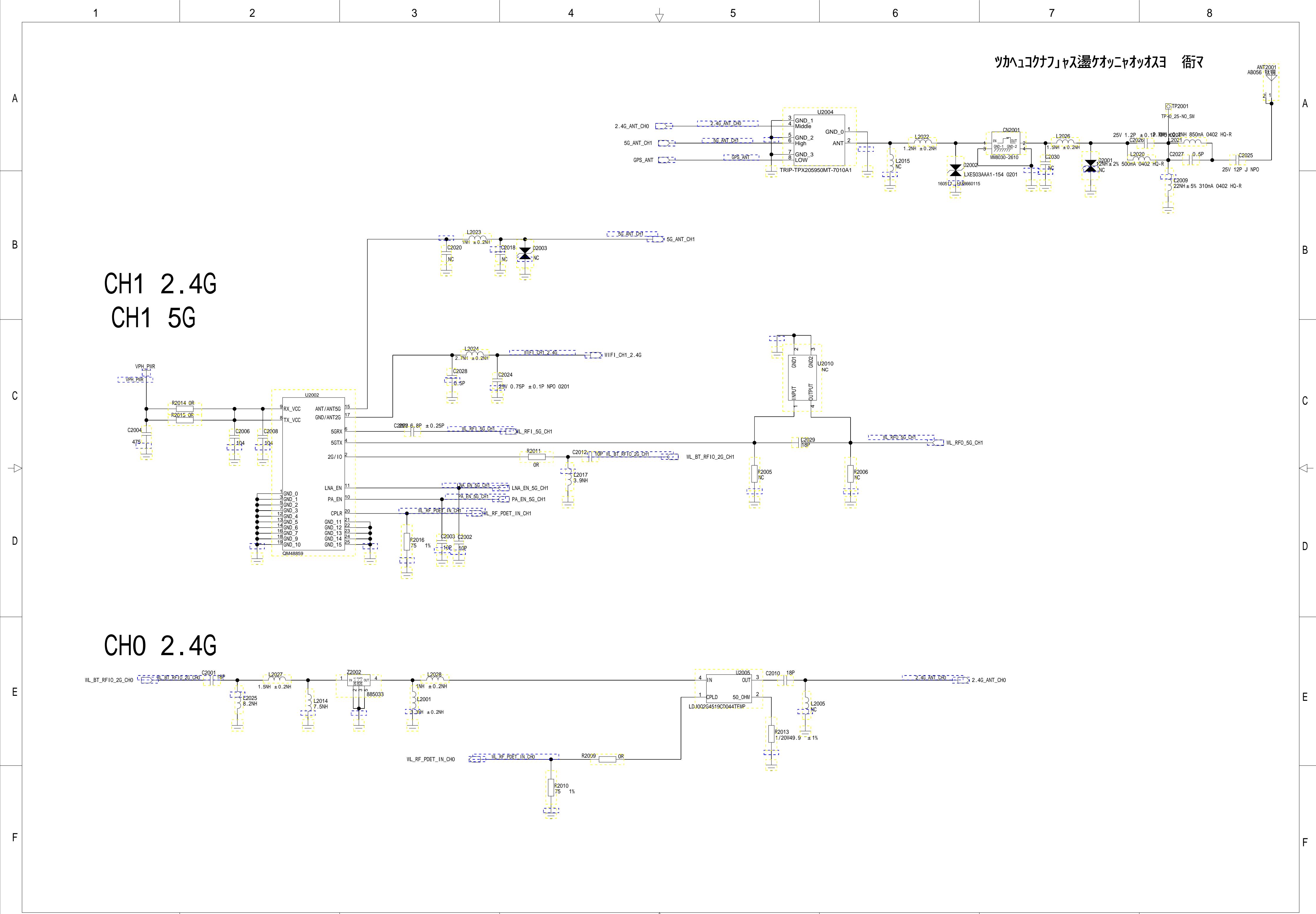


ラリオ鄰 75

U1801

SDR660





WCN3990

WCN3990才釈エイキヨ

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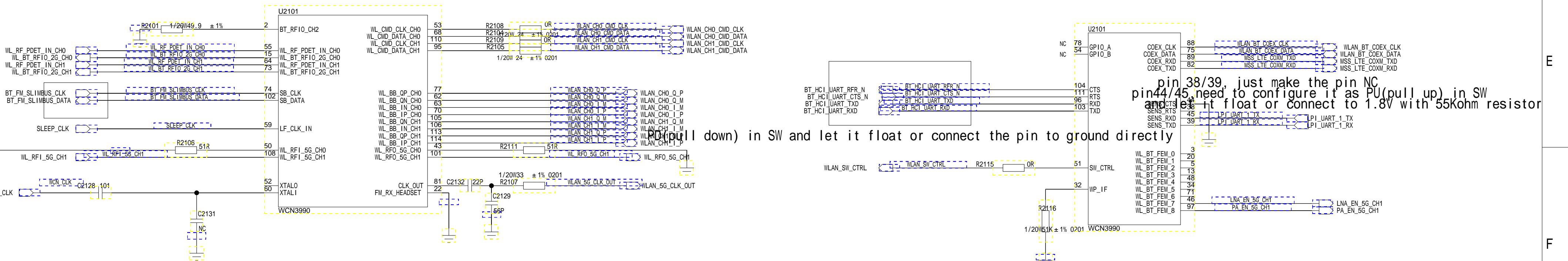
E

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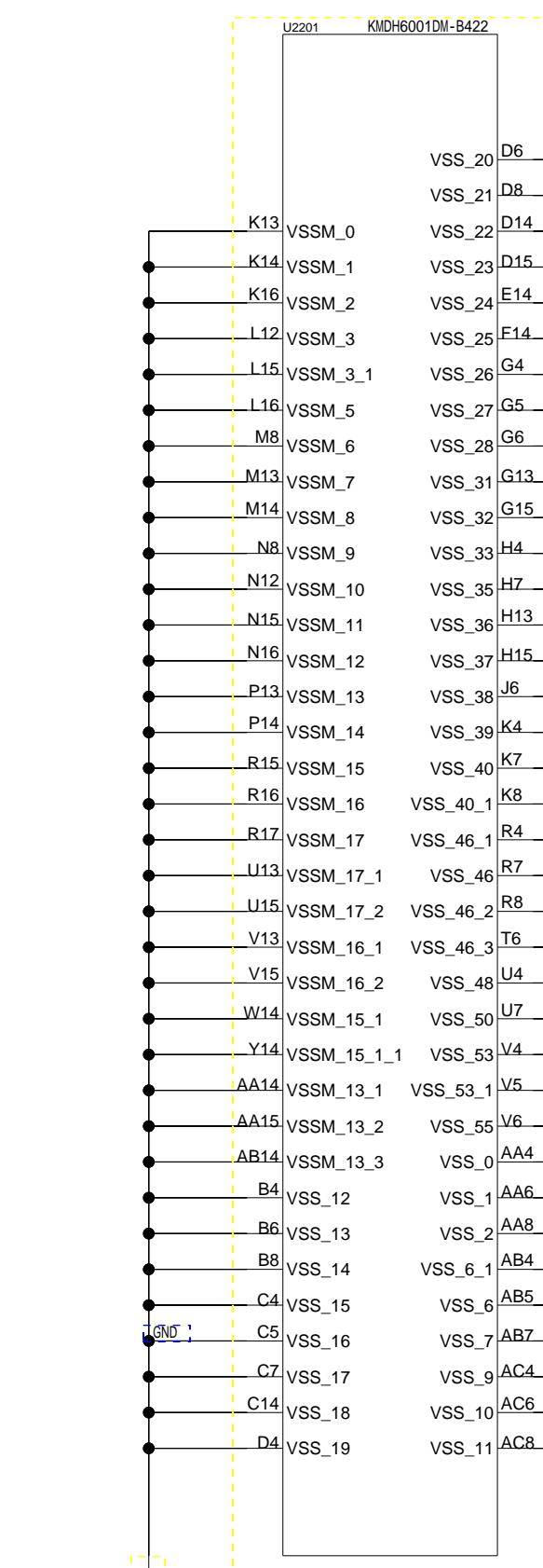
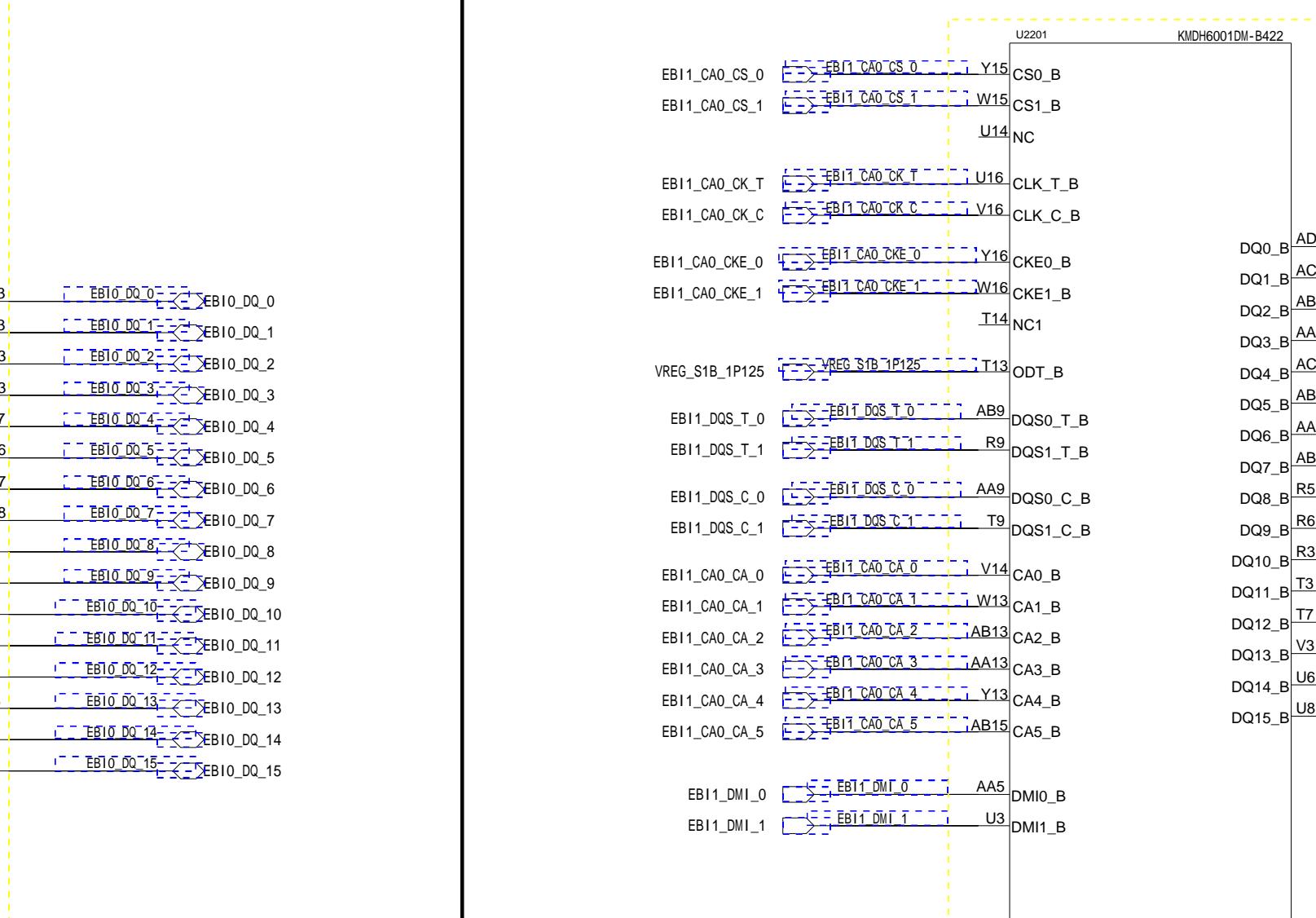
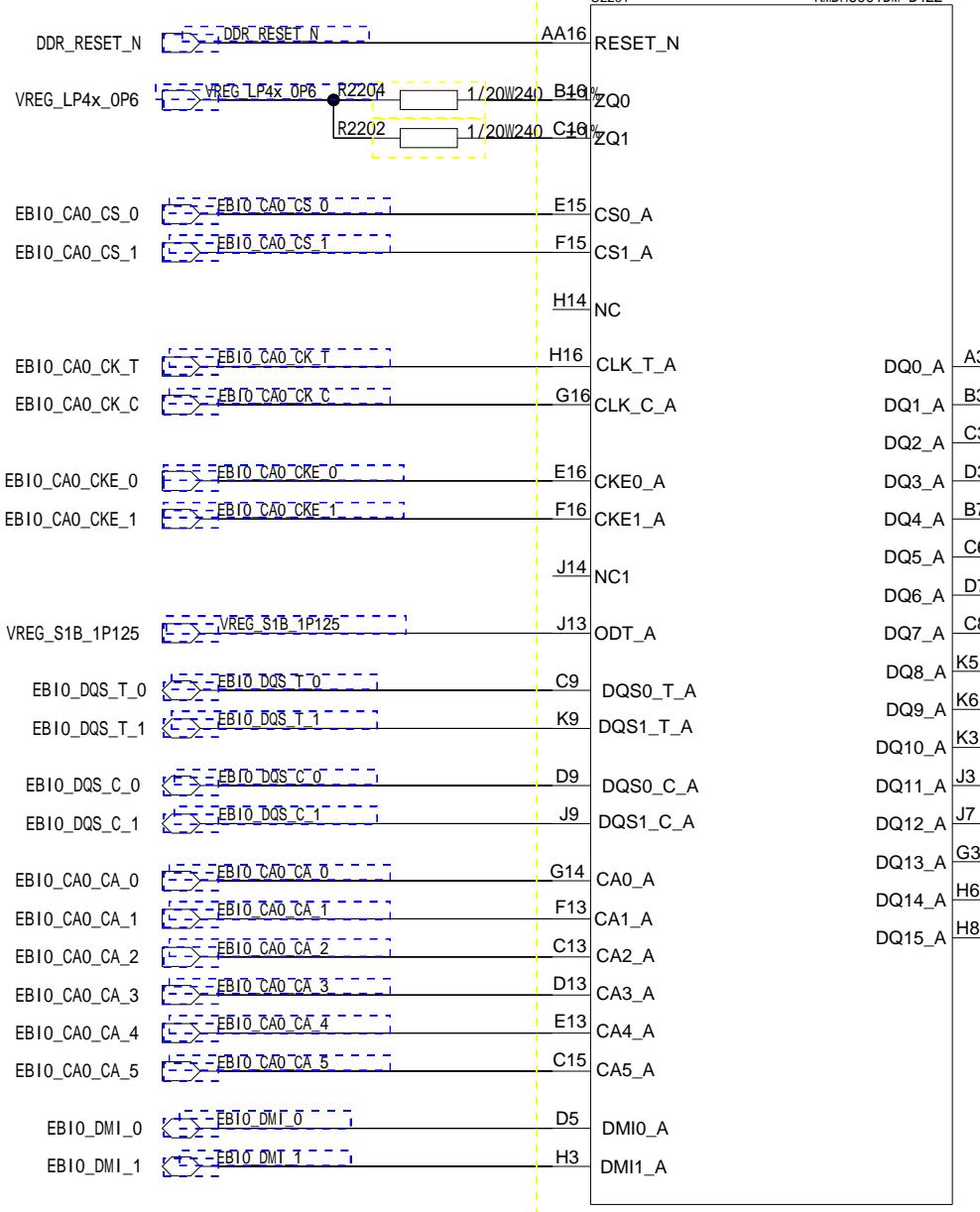
NC才釈ンセ イホシメ(NC)ホエ 釈ンヤハヌキ ノモミ。ヨオ

WCN3990 101Yヨ

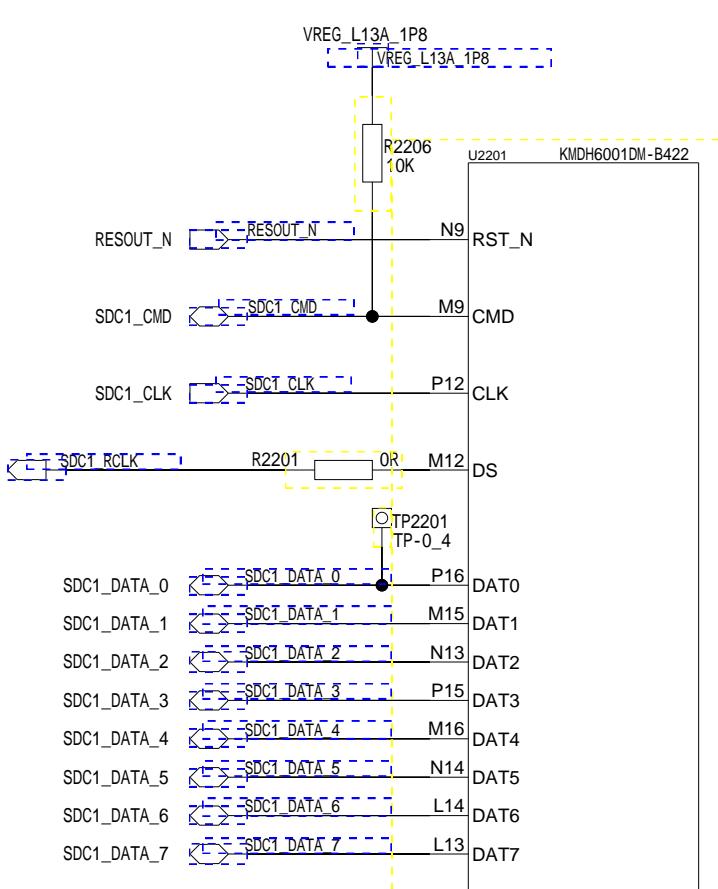
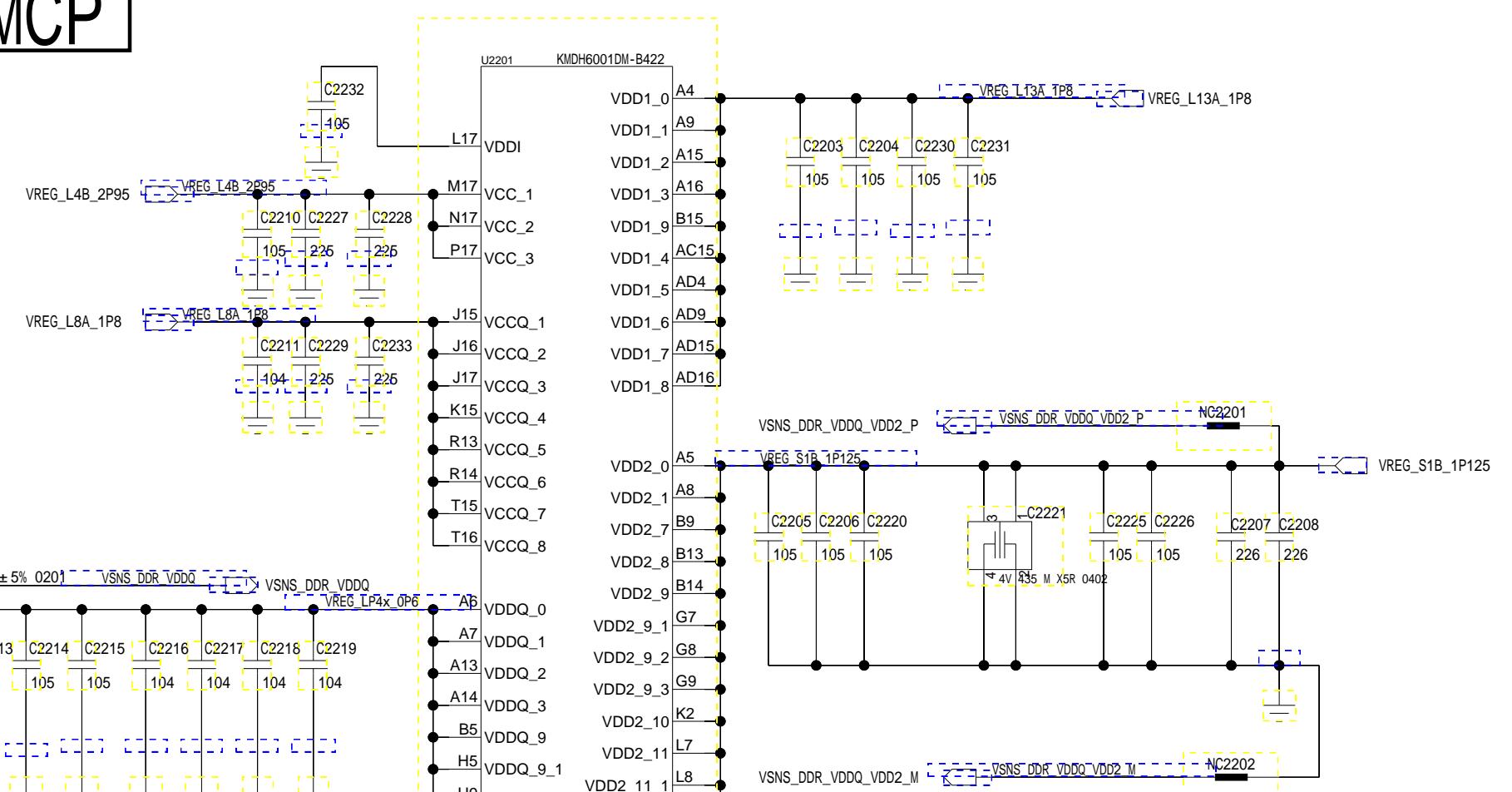
RF interface



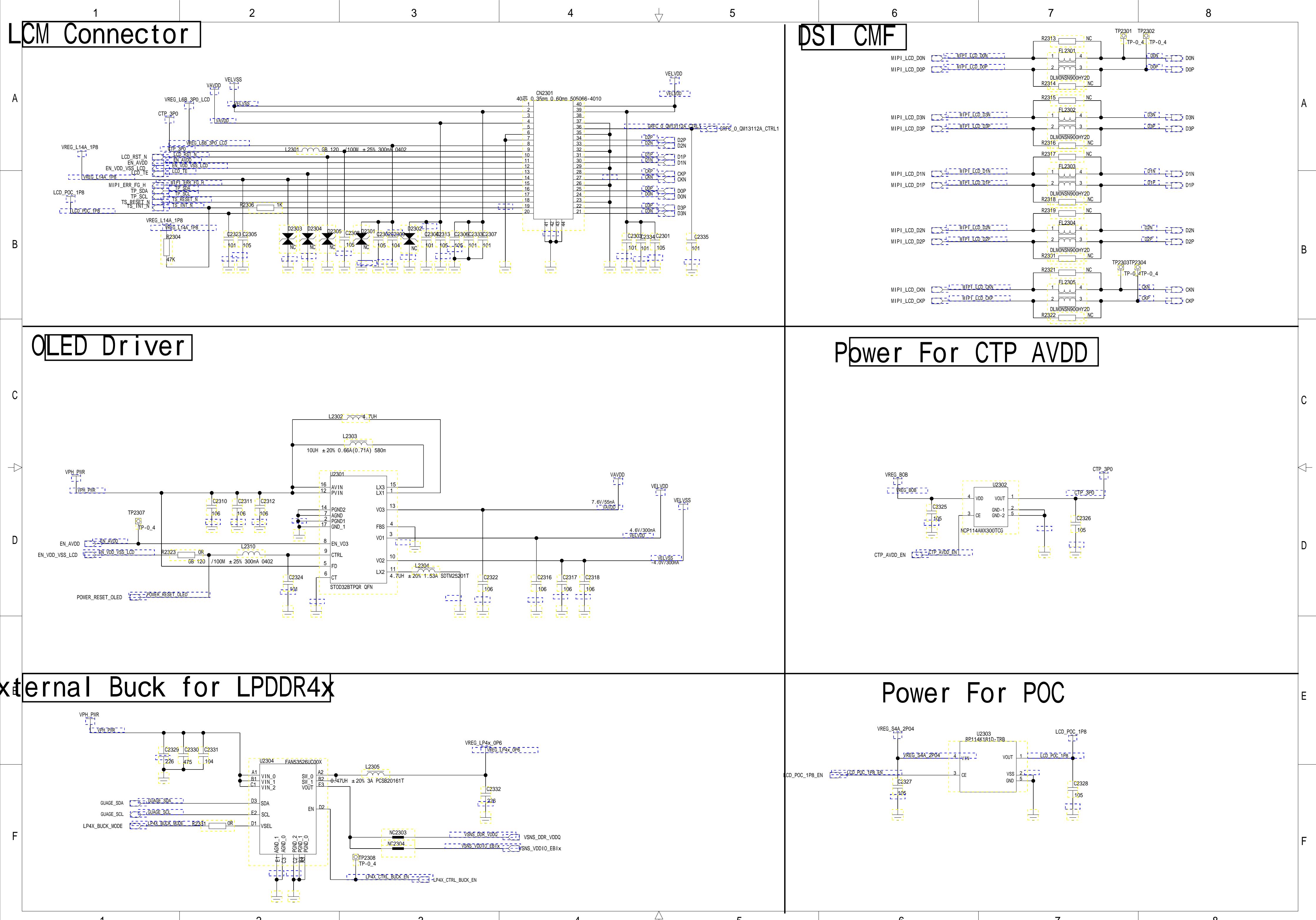
PIN入力返ニ	PIN才	才鄰。
VDD13_WL_CHO	27	120mA
VDD13_WL_CH1	84	70mA
VDD13_WL_SYNTH_CHO	33	35mA
VDD13_WL_SYNTH_CH1	90	40mA
VDD13_BT_SYNTH	12	15mA
VDD13_PM	66	20mA
VDD13_FM	8	15mA
VDD12_BT_FM_BBPLL	18	10mA
VDD13_BT	11	20mA
VDD13_BT_CH2	1	20mA
VDD33_WL_CHO	29	450mA
VDD33_WL_5GPA_DRV_CHO	35	70mA
VDD33_WL_BT_DRV_CHO	6	65mA
VDD33_BT_PA_CH2	9	65mA
VDD33_PM_DLDO	30	5mA
VDD33_FEM	23	1mA
VDD33_WL_CH1	86	450mA
VDD33_WL_5GPA_DRV_CH1	92	70mA
VDD18_I0	94	15mA
VDD18_XTAL	40	35mA
VDD18_VCO_CH1	91	25mA



Power For EMCP

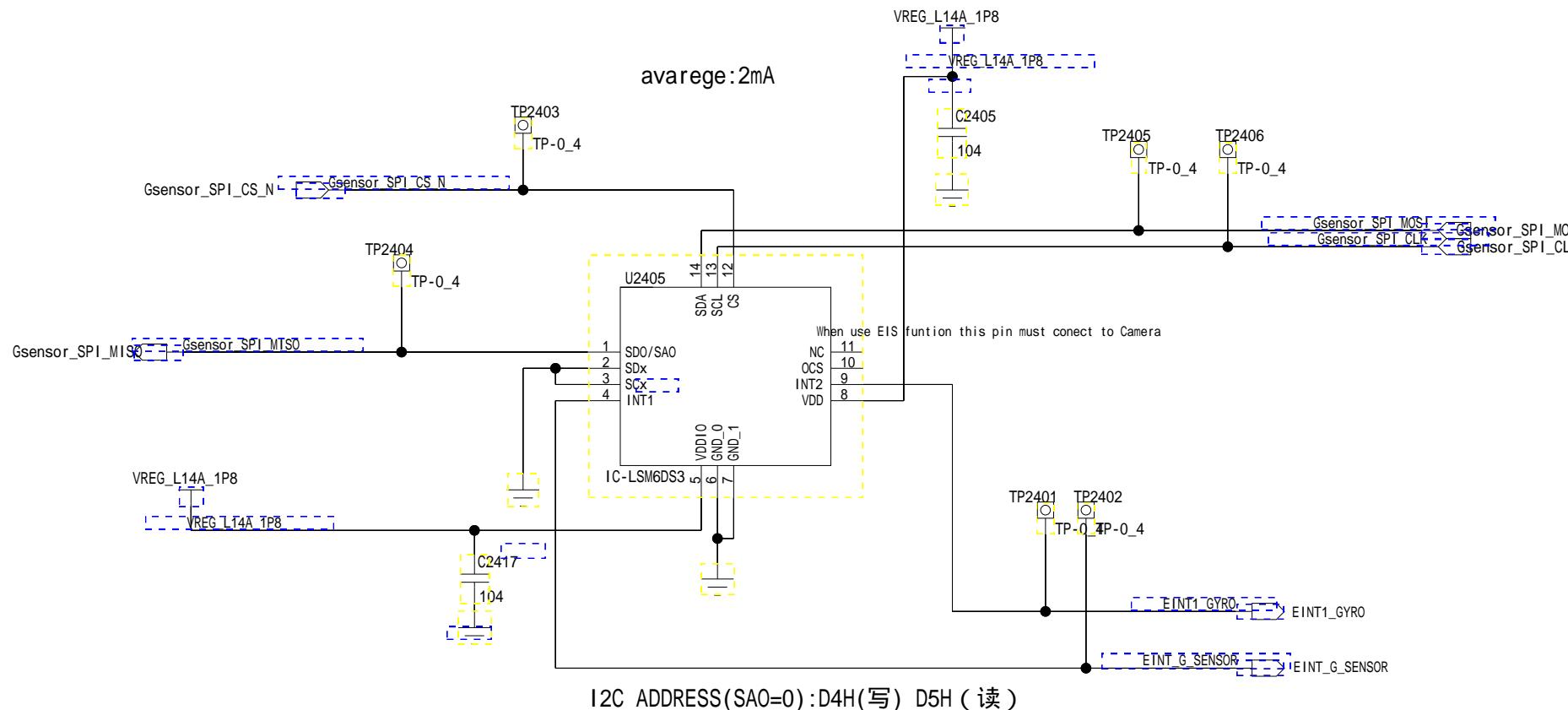


PDN Guidelines for LPDDR4X					
	Tolerance		DC R	AC Z@20MHz	De-cap. Combination
	(DC)	(AC+DC)			
VDDQ(0.6V)	± 18mV	± 30mV	<15m	<38m	Ch. A 2.2uF 1ea + 100nF 2ea Ch. B 2.2uF 1ea + 100nF 2ea
VDD2(1.1V)	± 33mV	± 55mV	<8m	<38m	Ch. A 7uF 1ea + 100nF 2ea Ch. B 7uF 1ea + 100nF 2ea
VDD3(1.1V)	± 55mV	± 80mV	<8m	<38m	Ch. A 7uF 1ea + 100nF 2ea Ch. B 7uF 1ea + 100nF 2ea



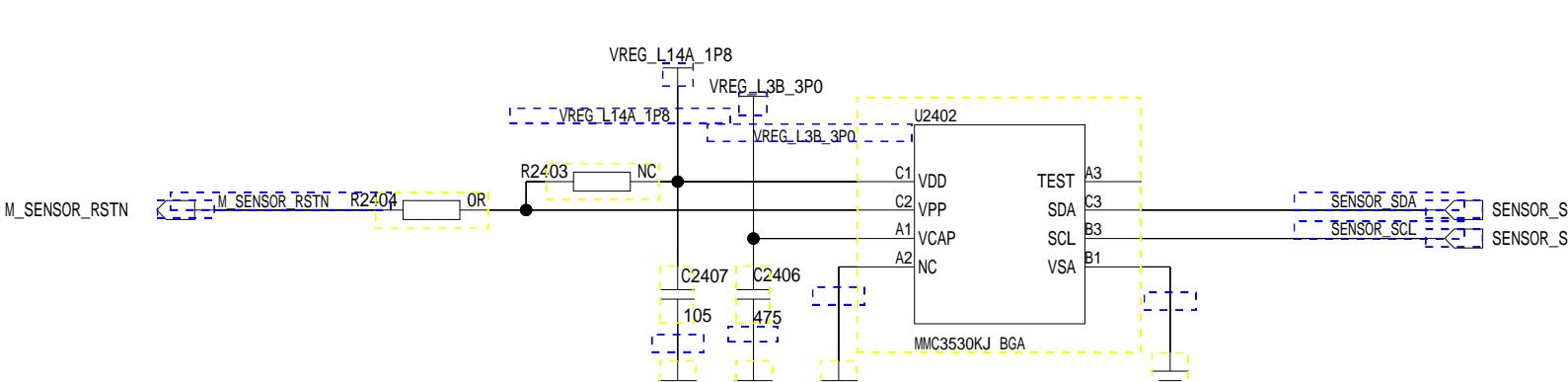
G-Sensor/Gyo

A



Magnetic Sensor

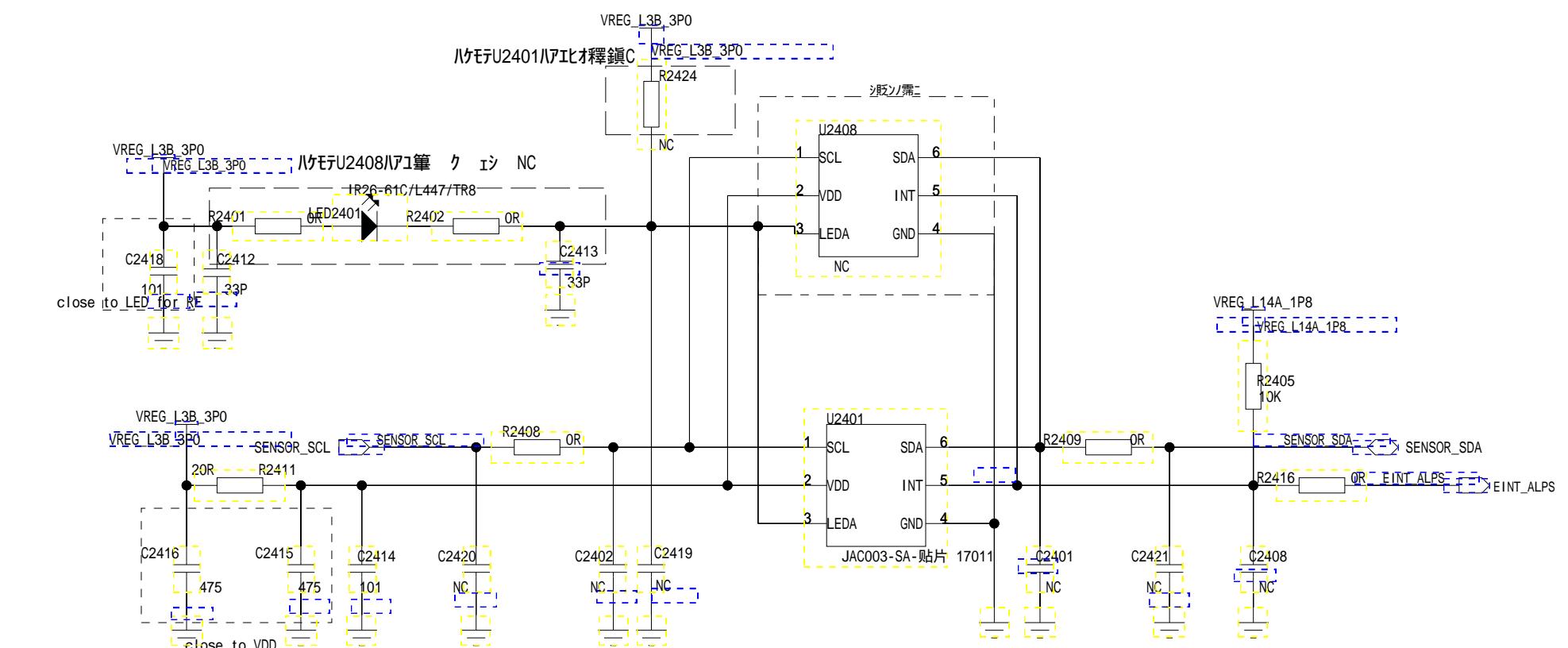
D



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A.L.S.+P.S sensor module BTB

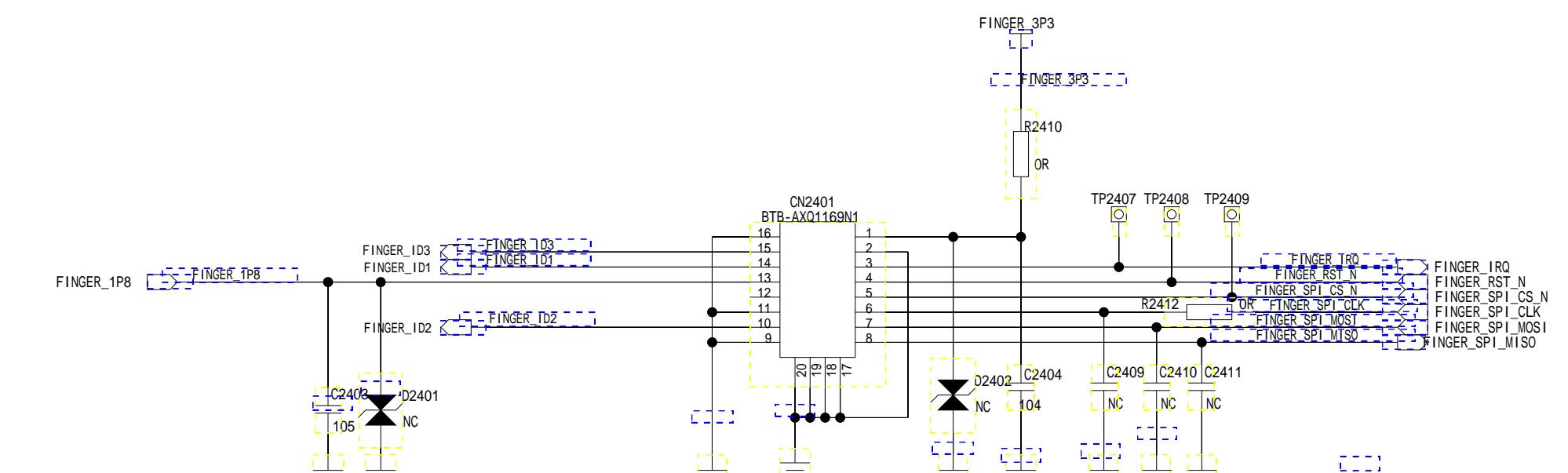
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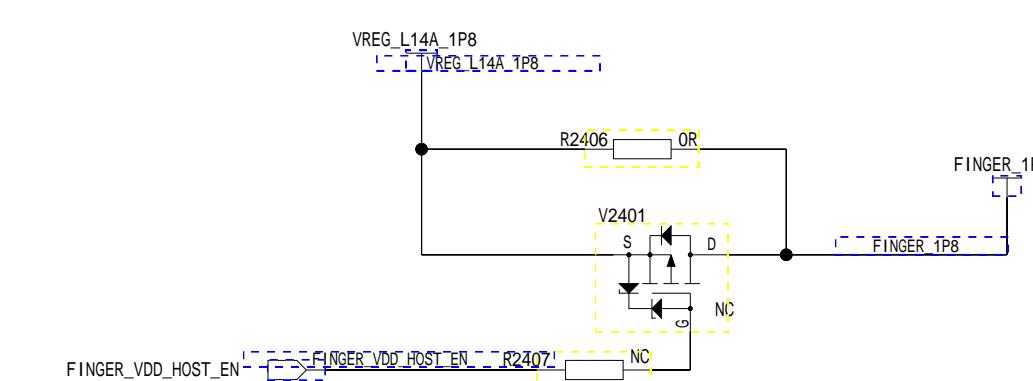
¶ÔÓ! J °å TK3210-9 Sensor: 0X90(ΞI)/0X91(刂) ADPS9922 Sensor: 0XA6(ΞI)/0XA7(刂)

FingerPrint

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Power For Fingerprint

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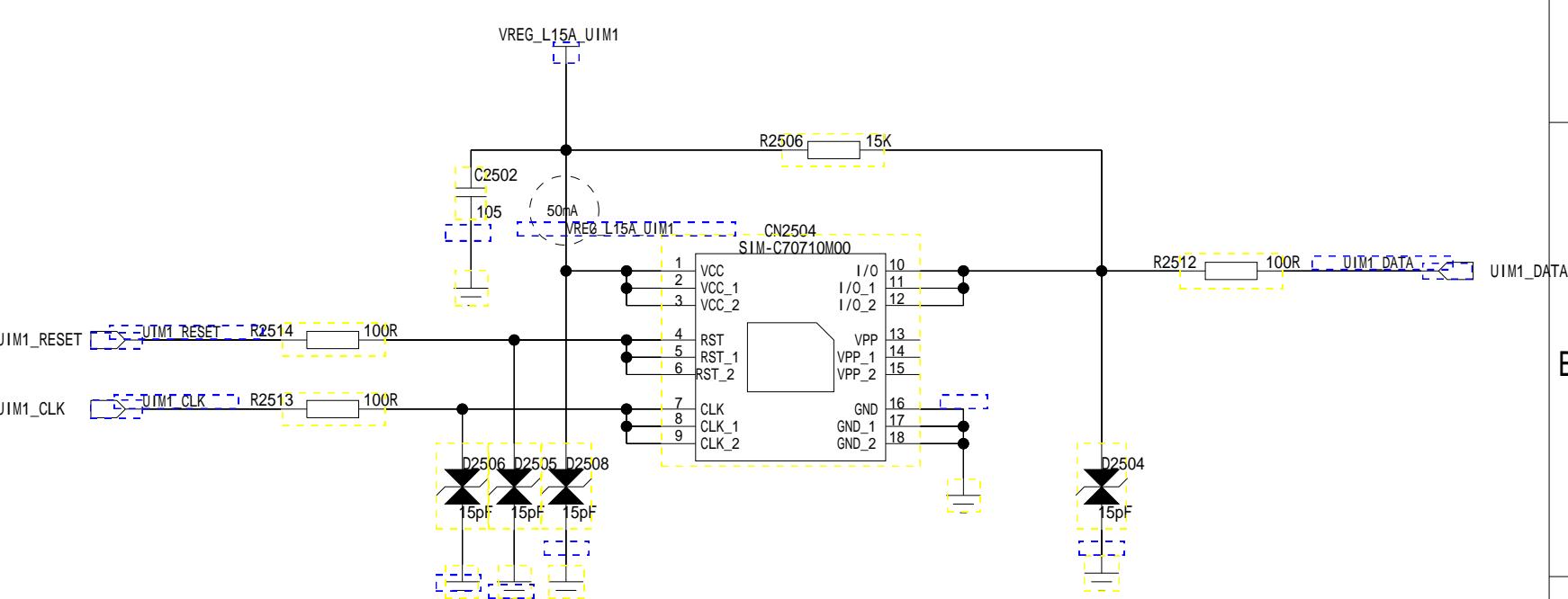
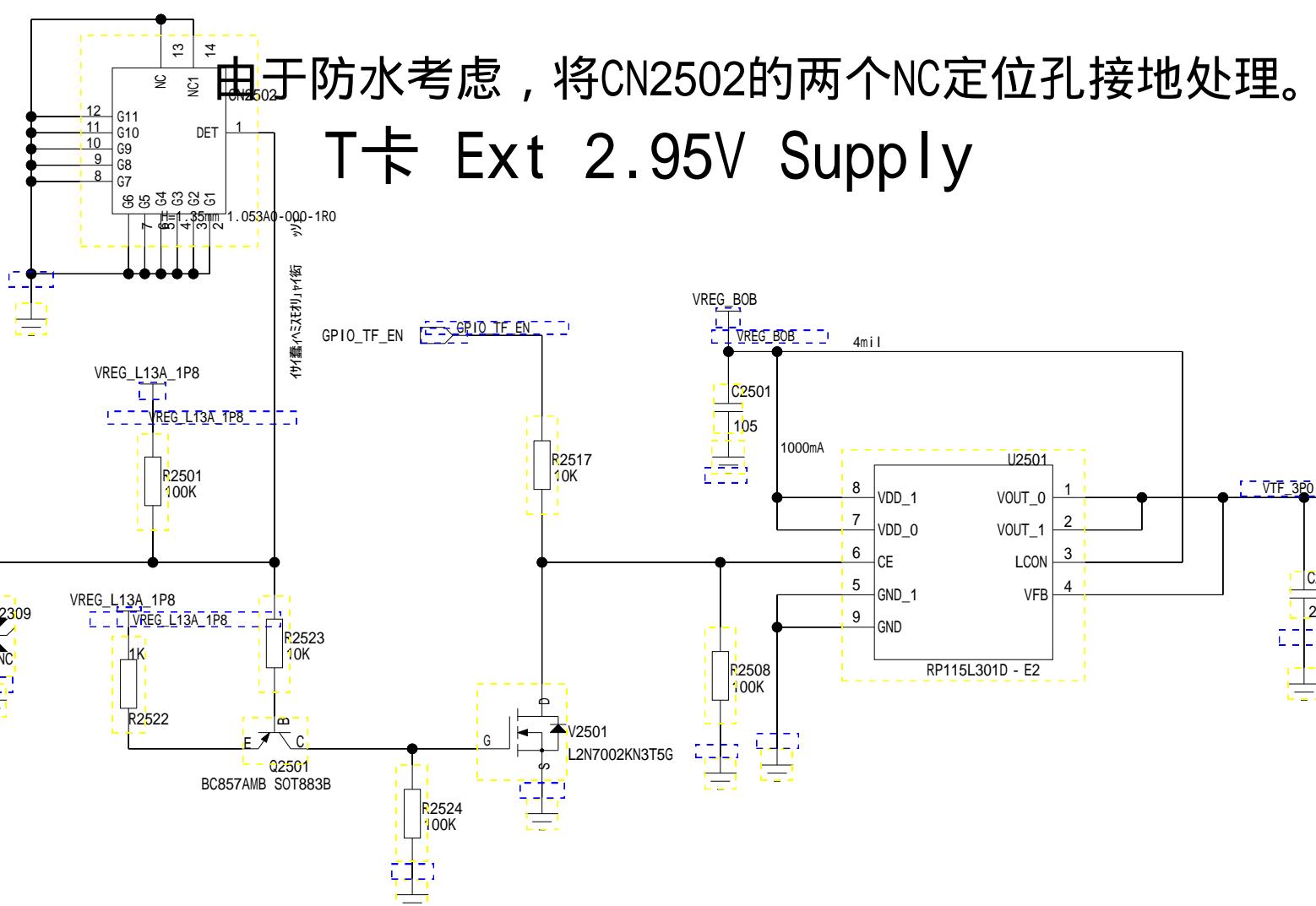
Power For TF Card & Plug Detect

SIM1 Card

Hot plug

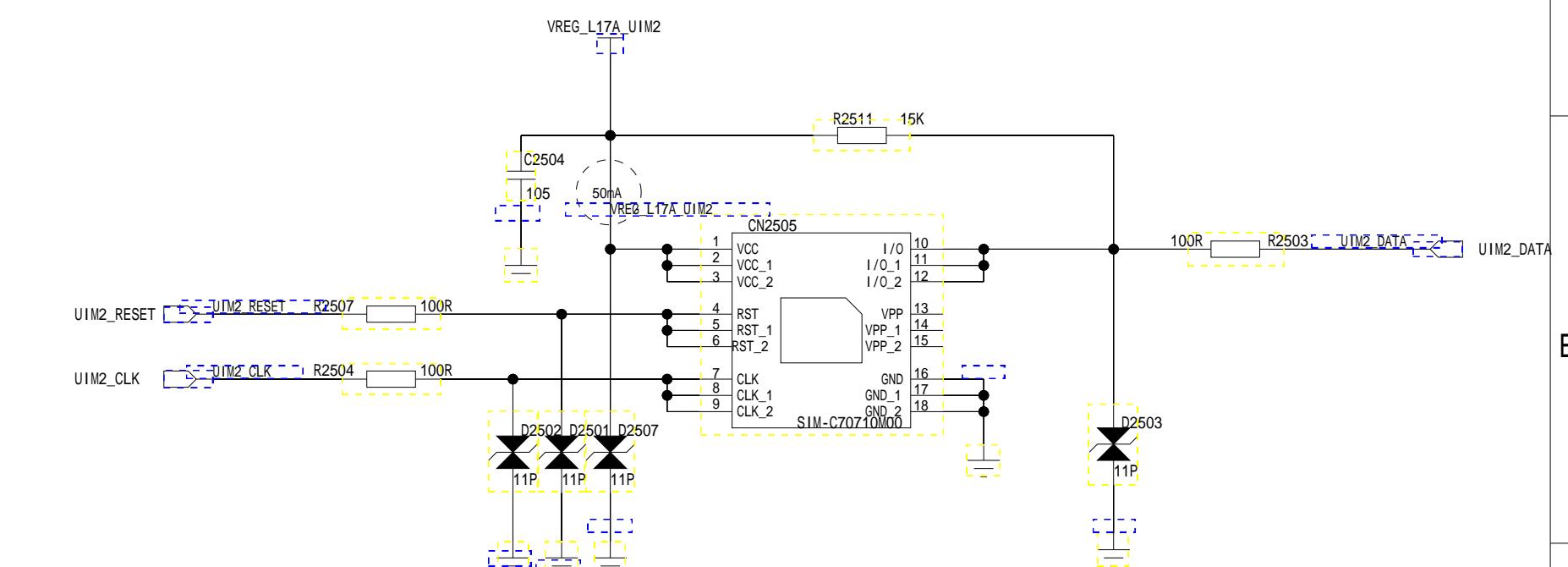
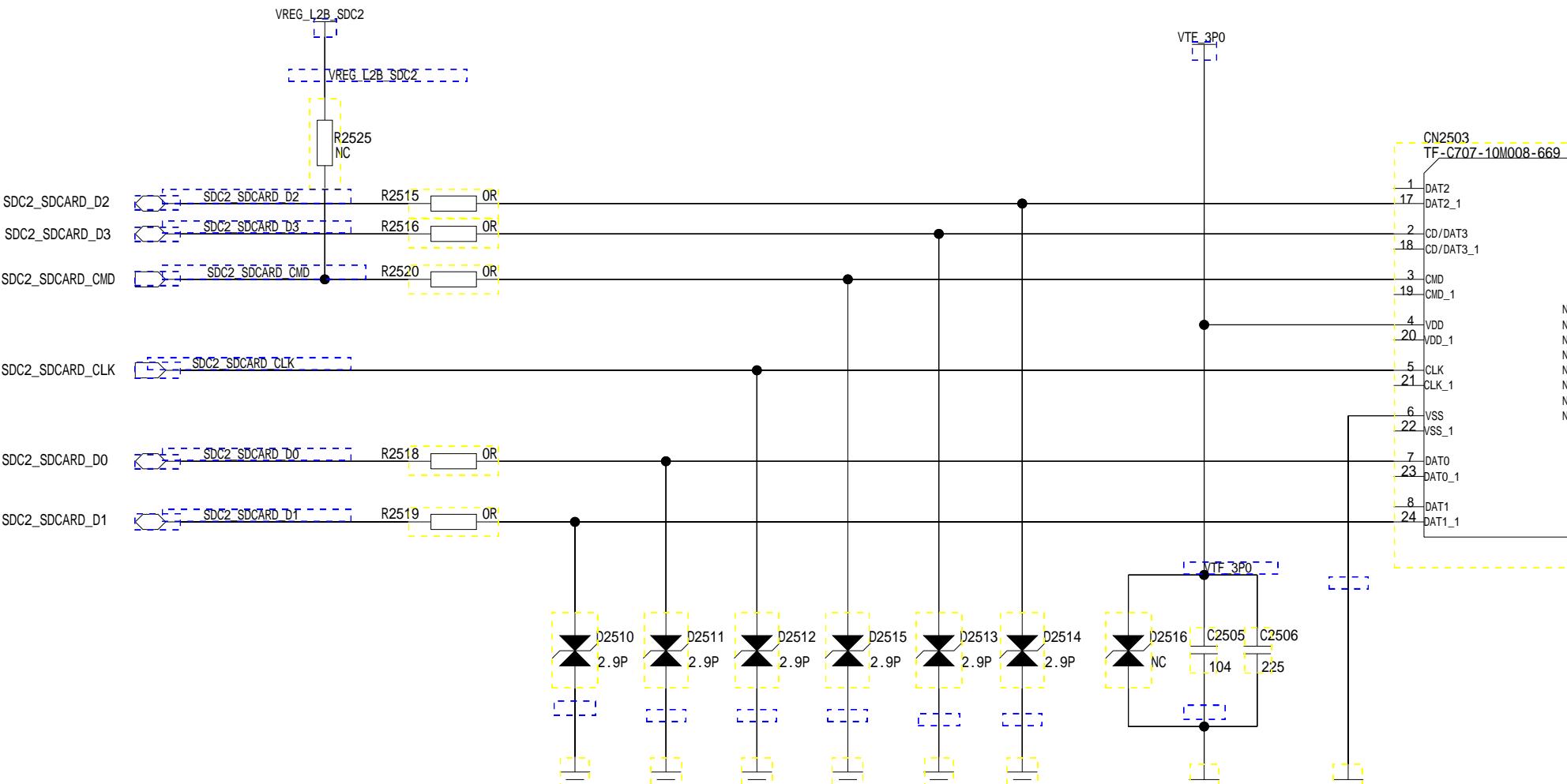
由于防水考虑，将CN2502的两个NC定位孔接地处理。

T卡 Ext 2.95V Supply



TF_Card

SIM2 Card



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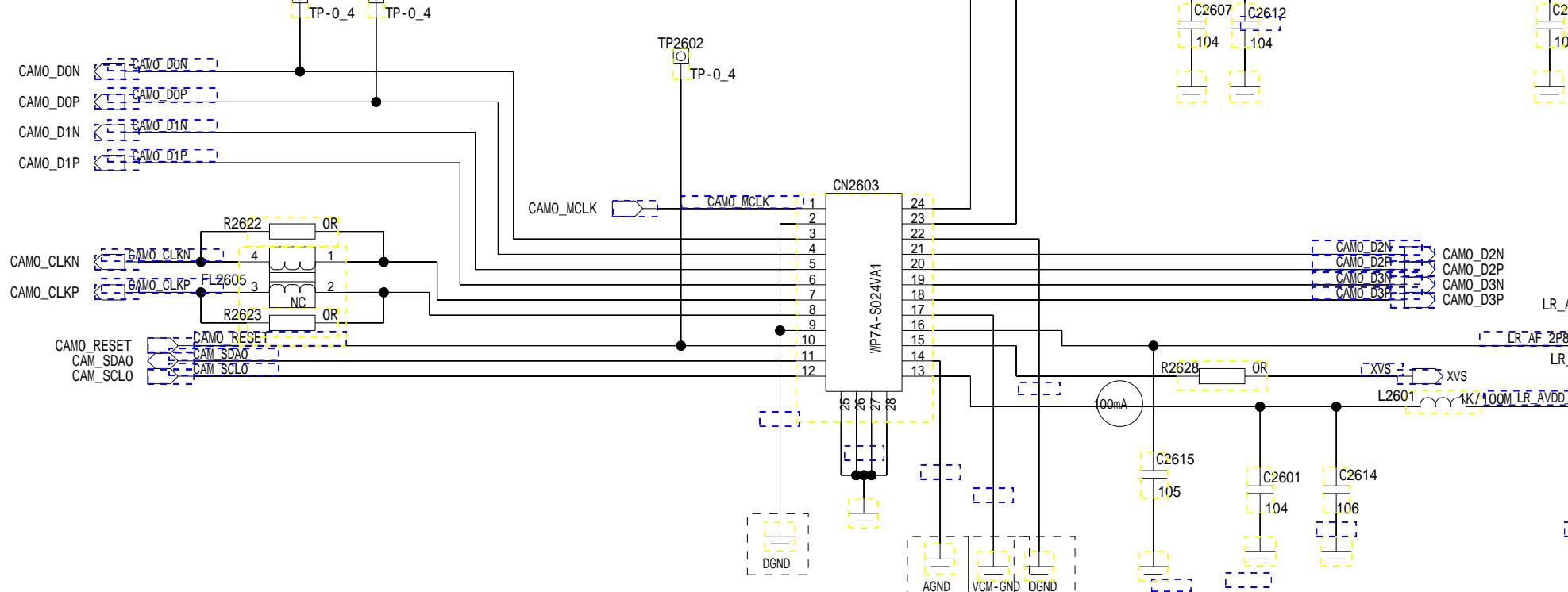
8

Left_Rear_Camera

LeftカメラモトバシIMX398

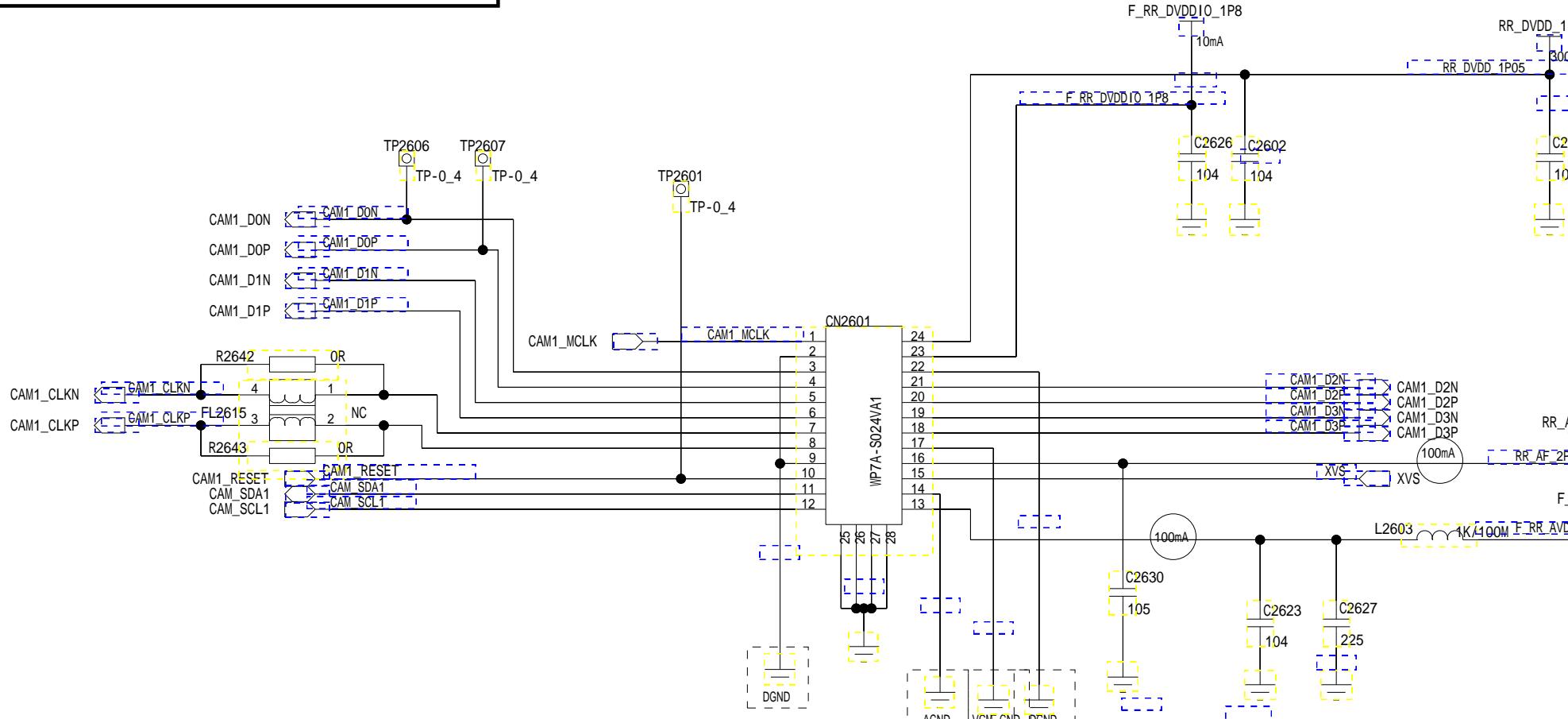
Front_Camera

A

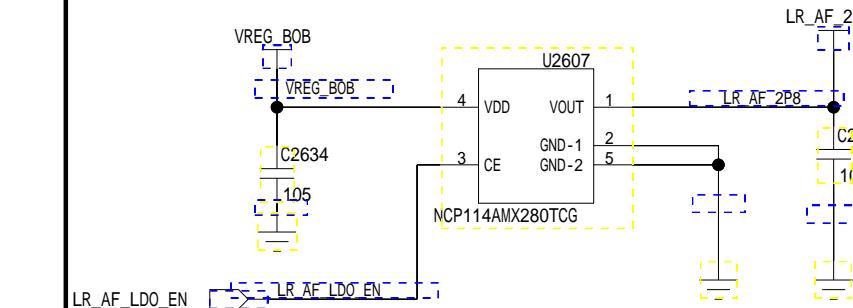


Right_Rear_Camera

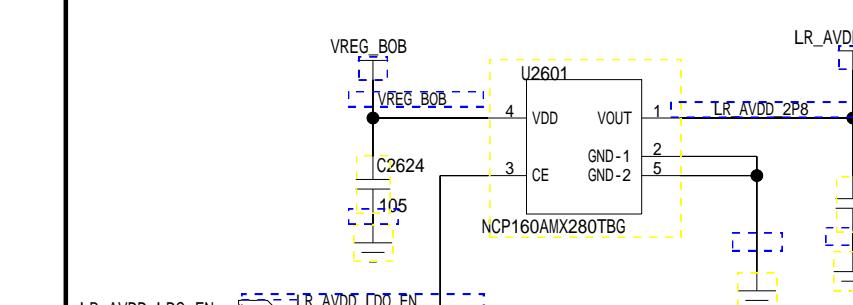
RightカメラモトバシIMX376



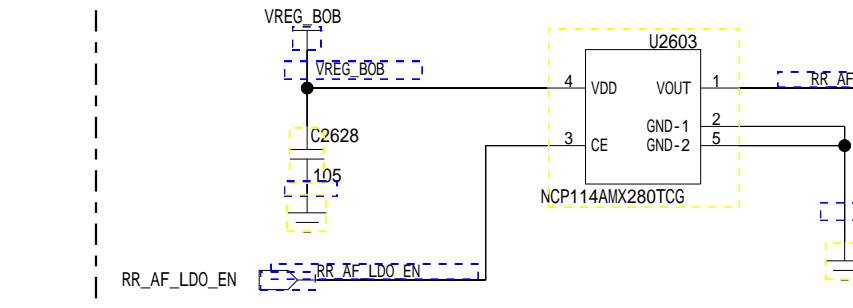
Left_Rear_Camera_AF



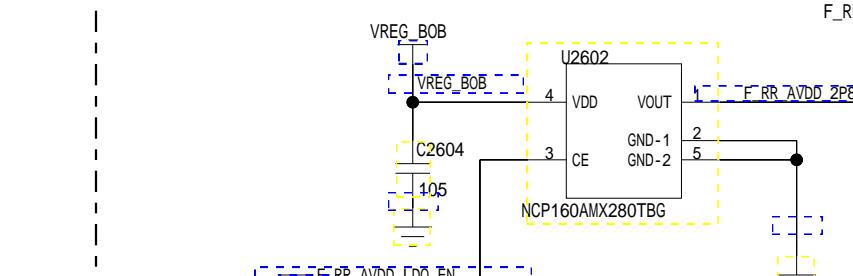
Left_Rear_Camera_AVDD



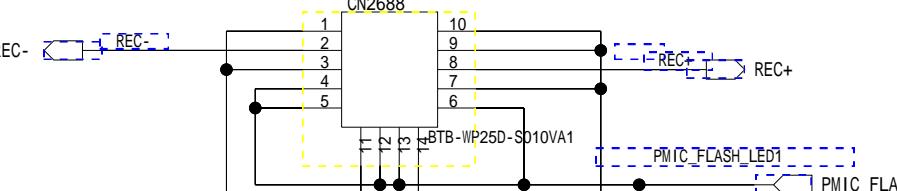
Right_Rear_Camera_AF



Front & Right_Rear_Camera_AVDD

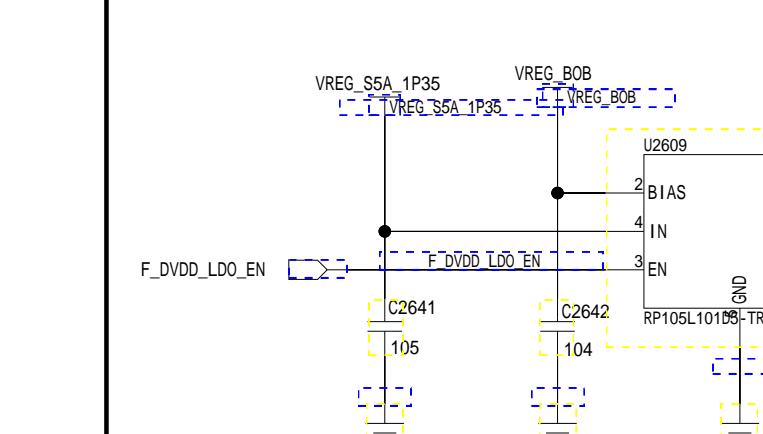


Flash LED Driver

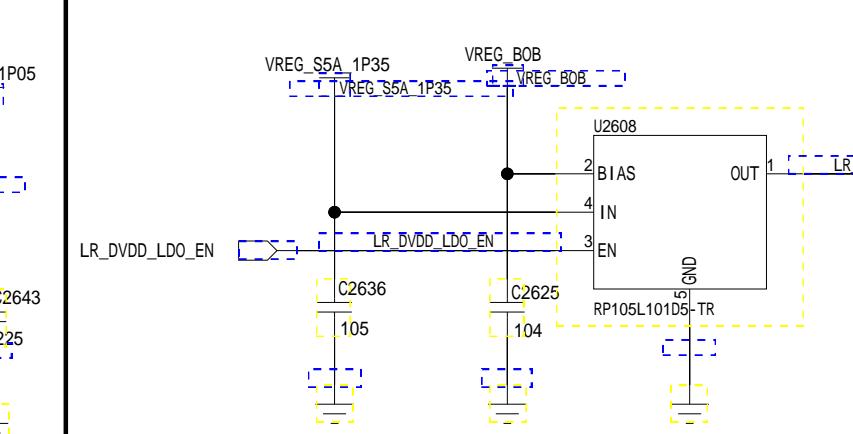


REF_BOARD

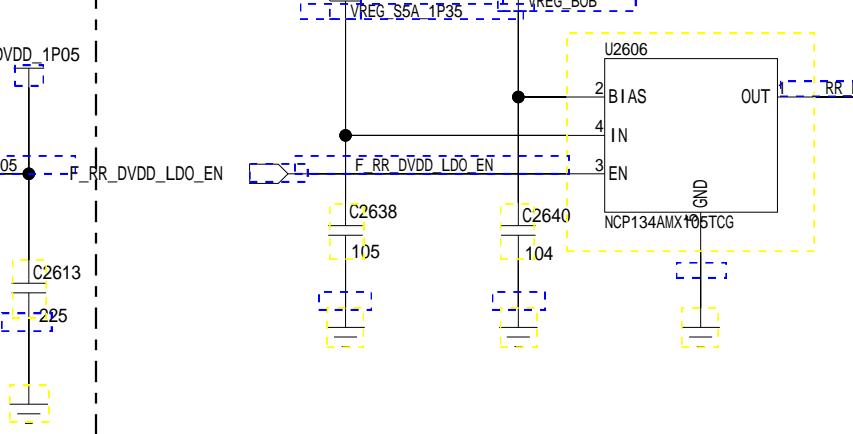
Front_Camera_DVDD



Left_Rear_Camera_DVDD



Right_Rear_Camera_DVDD



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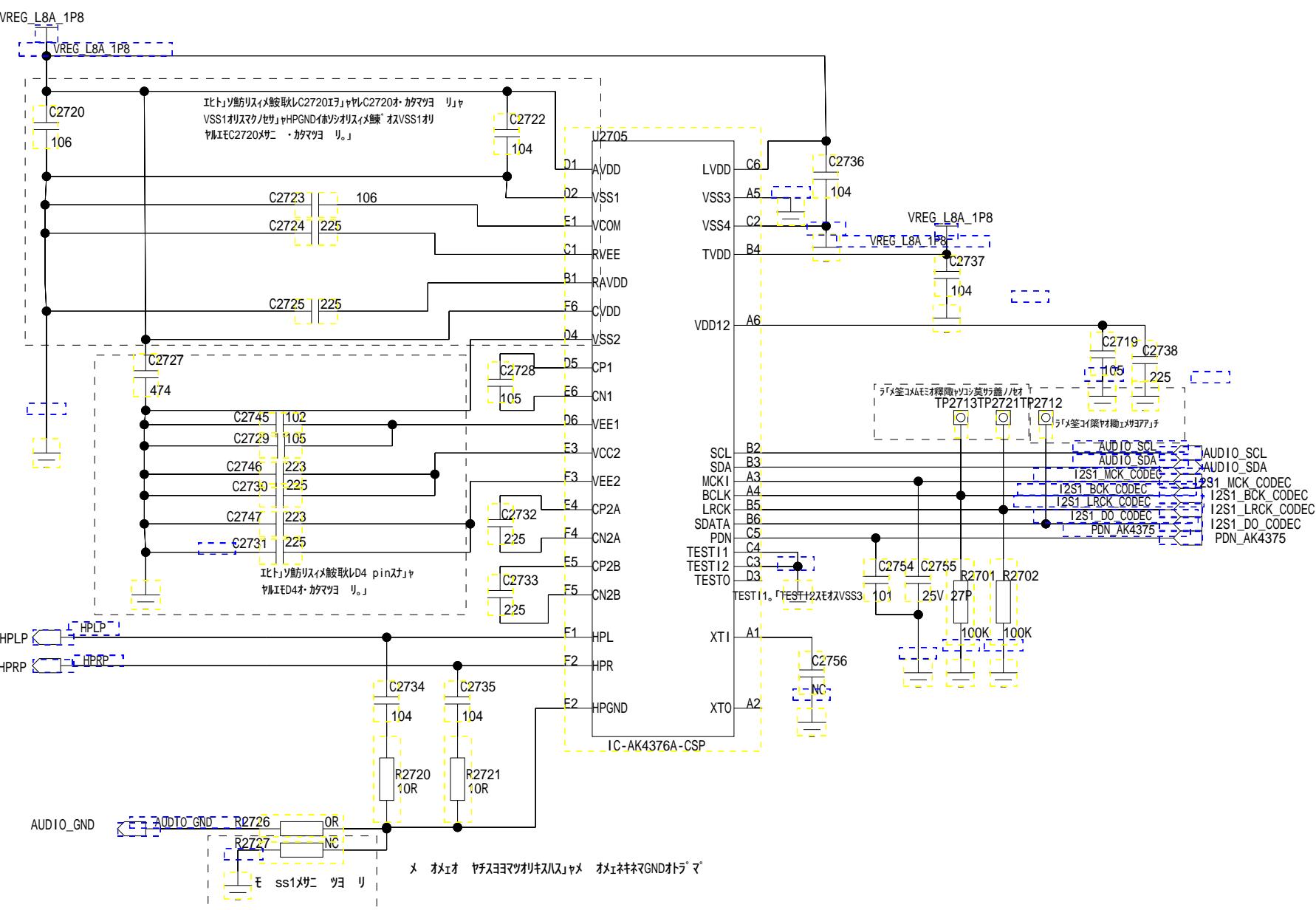
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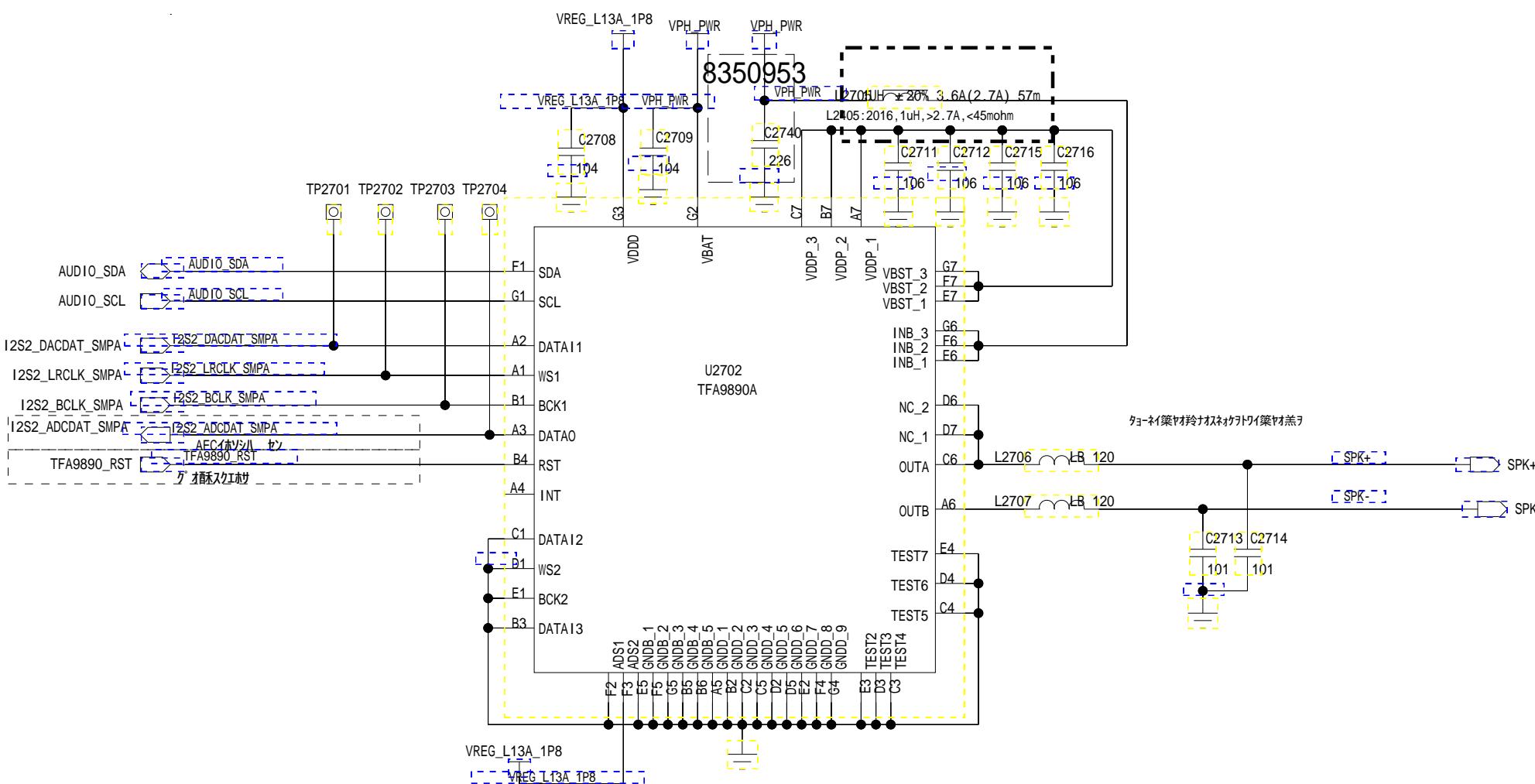
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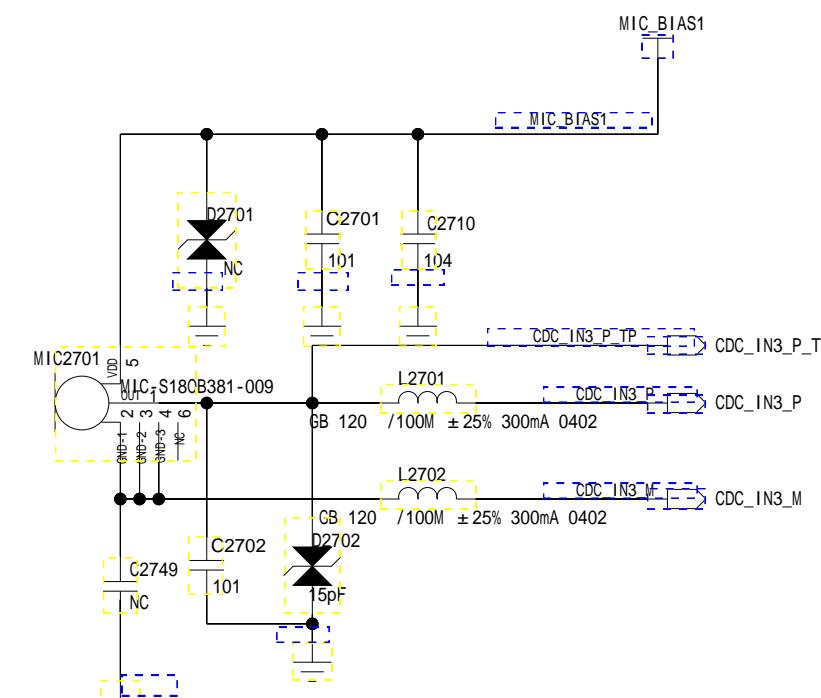
Codec



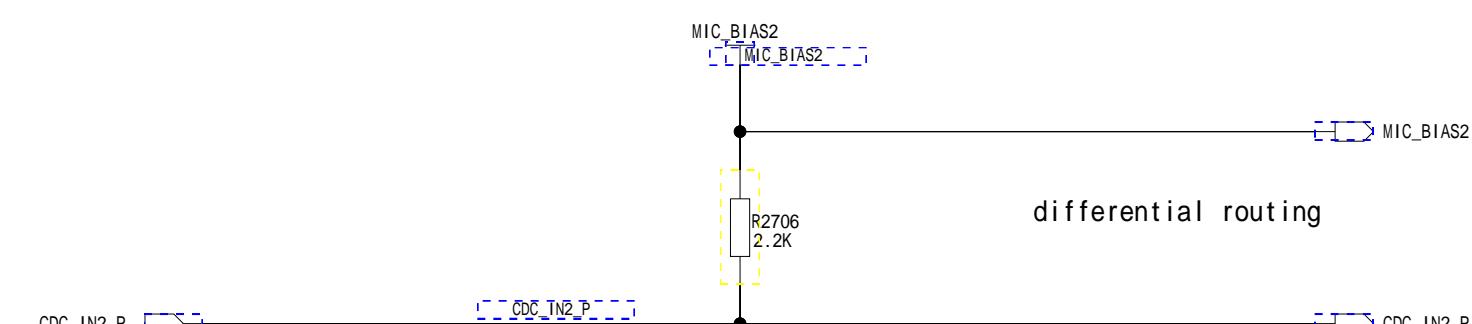
Smart PA



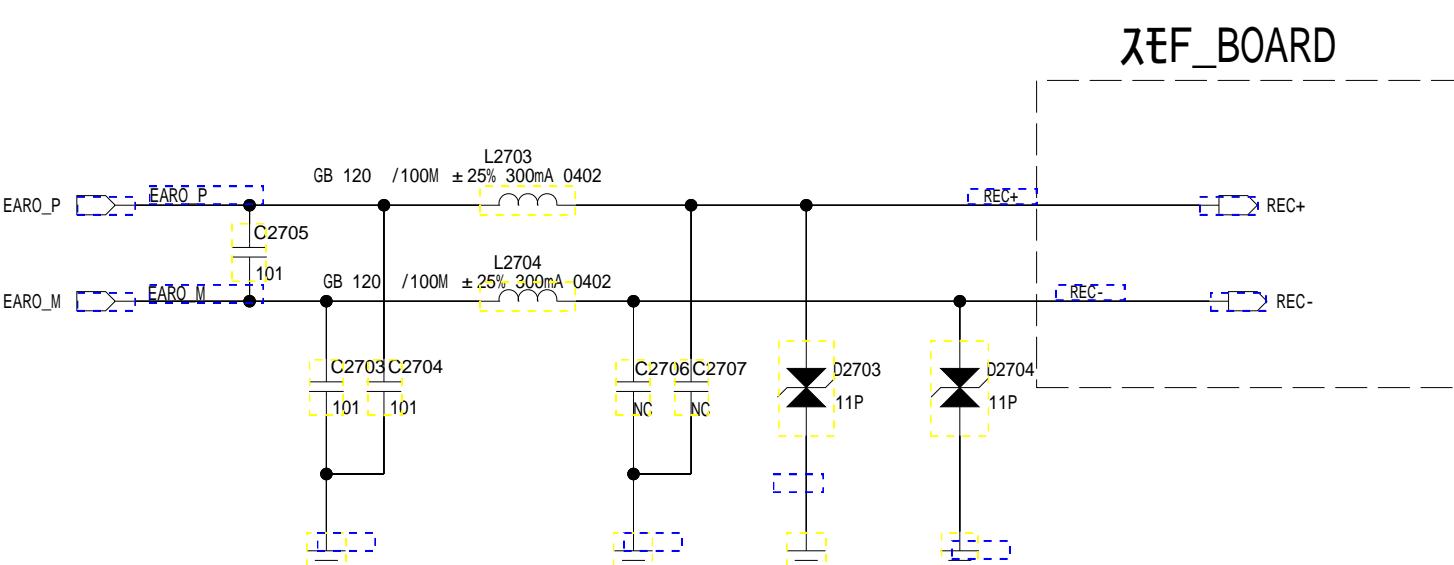
Ant-Noise MIC



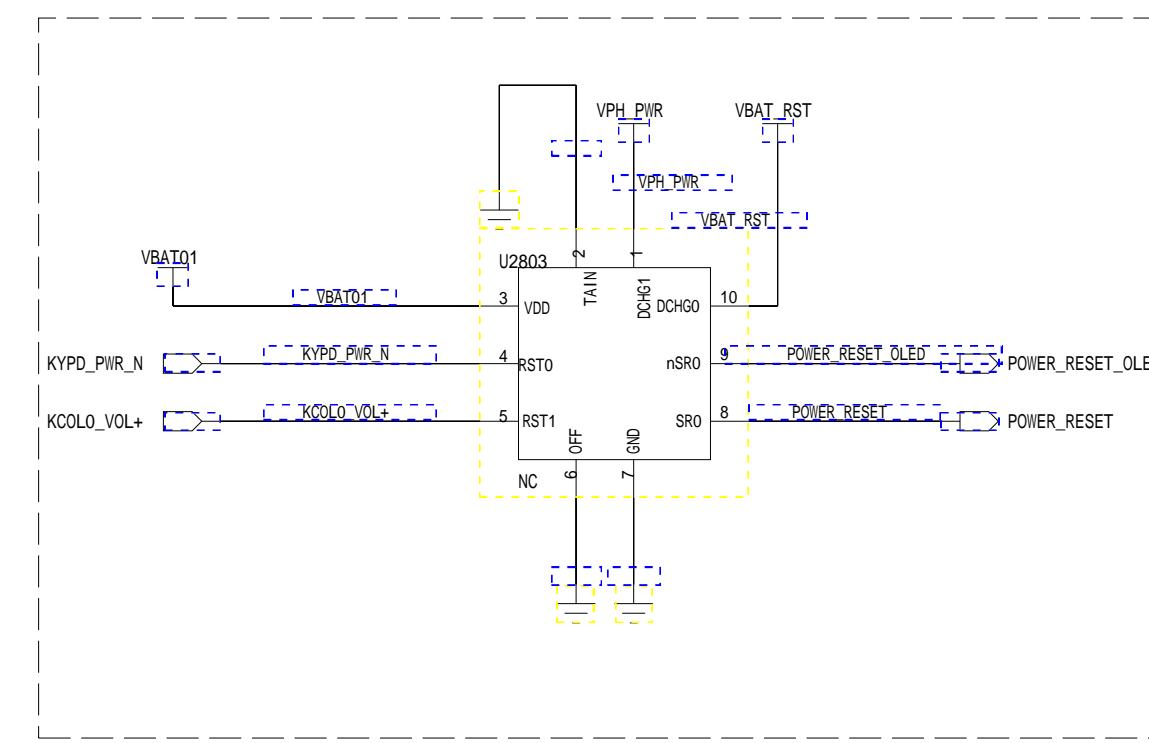
HP MIC Bias



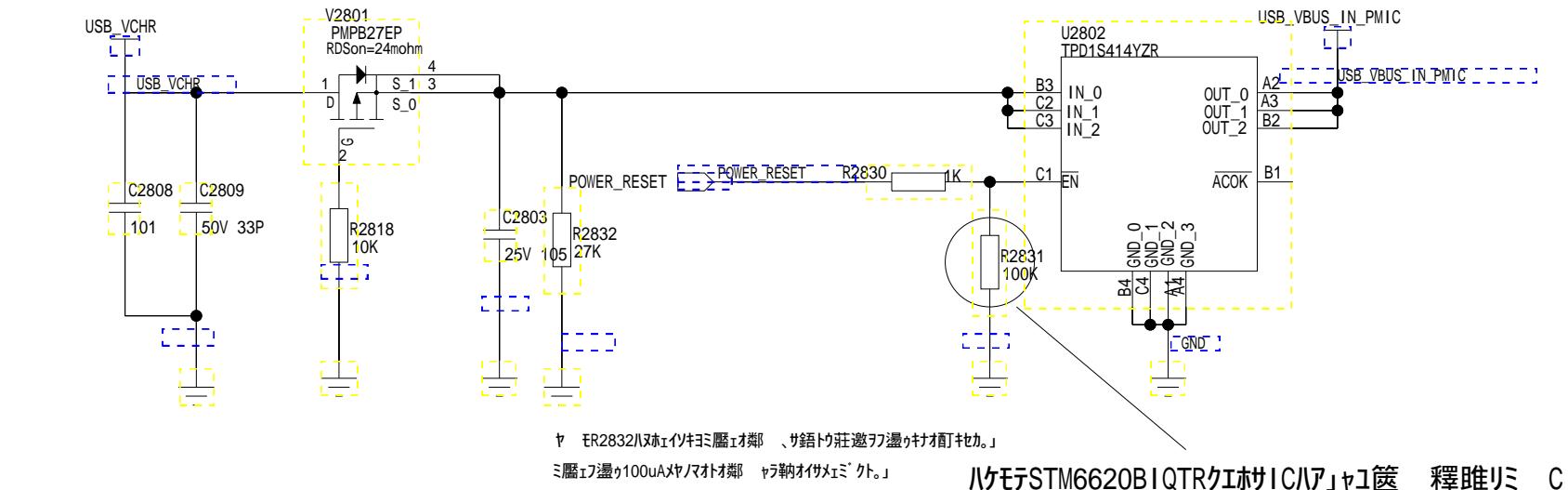
Receiver



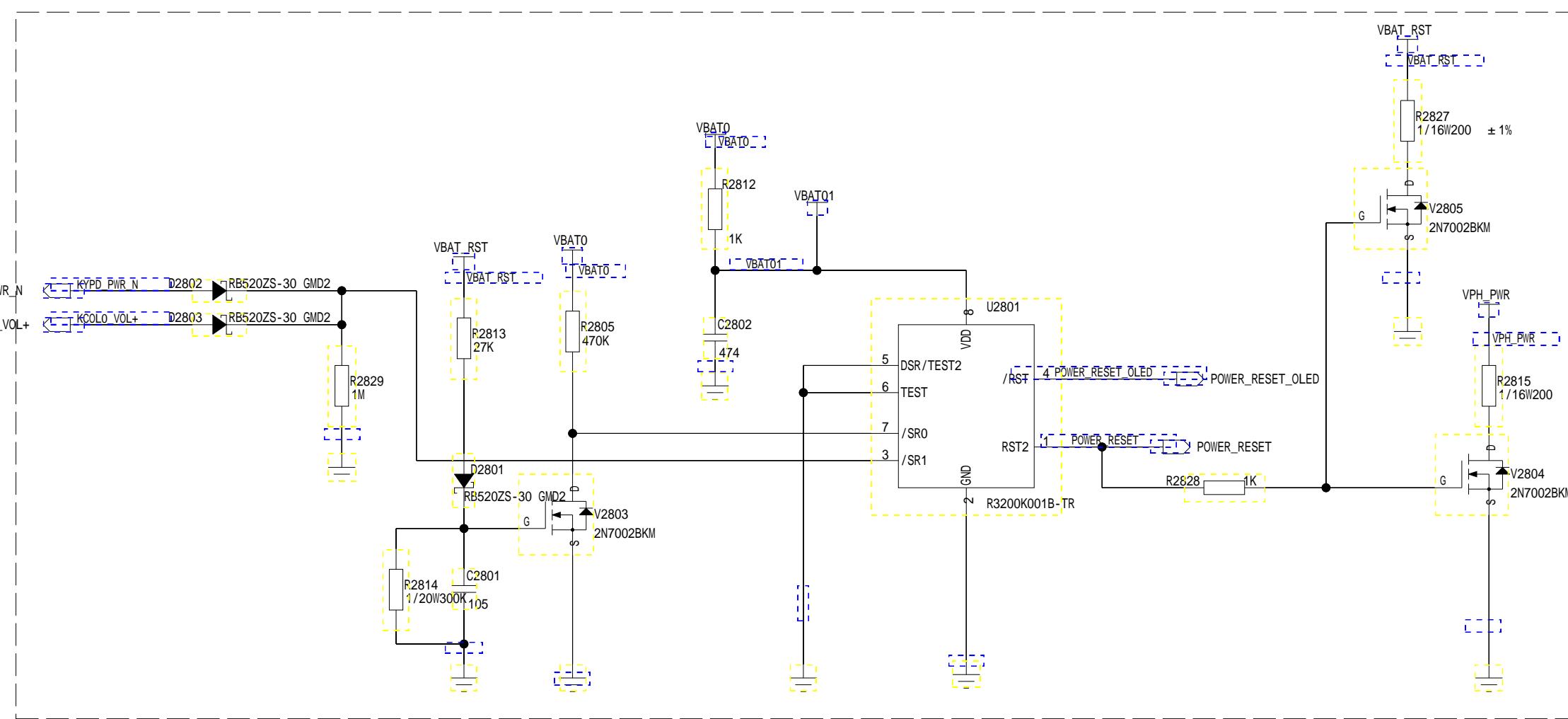
Hardware Reset



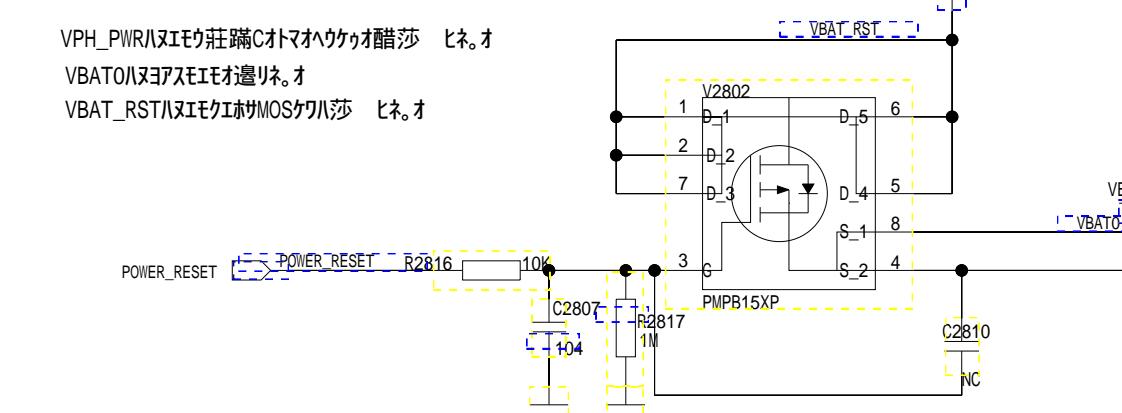
NVP&OVP



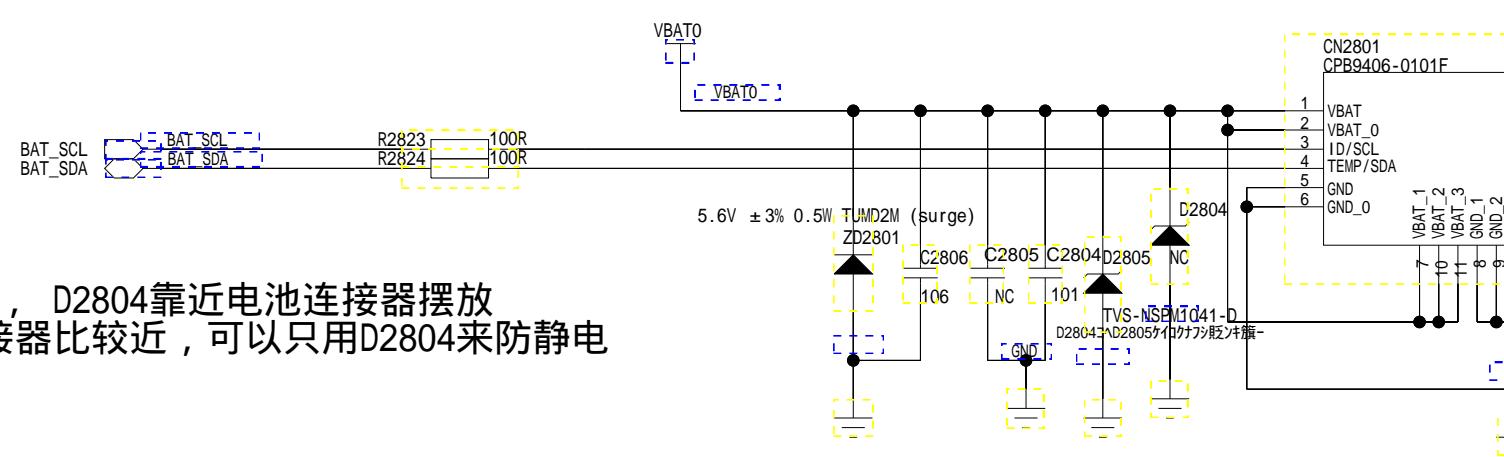
シ貯ンキスク



VBAT_MOSFET



Battery Connector



D2005靠近测试点摆放，D2804靠近电池连接器摆放
如果测试点离电池连接器比较近，可以只用D2804来防静电

C2806靠近ZD2801摆放

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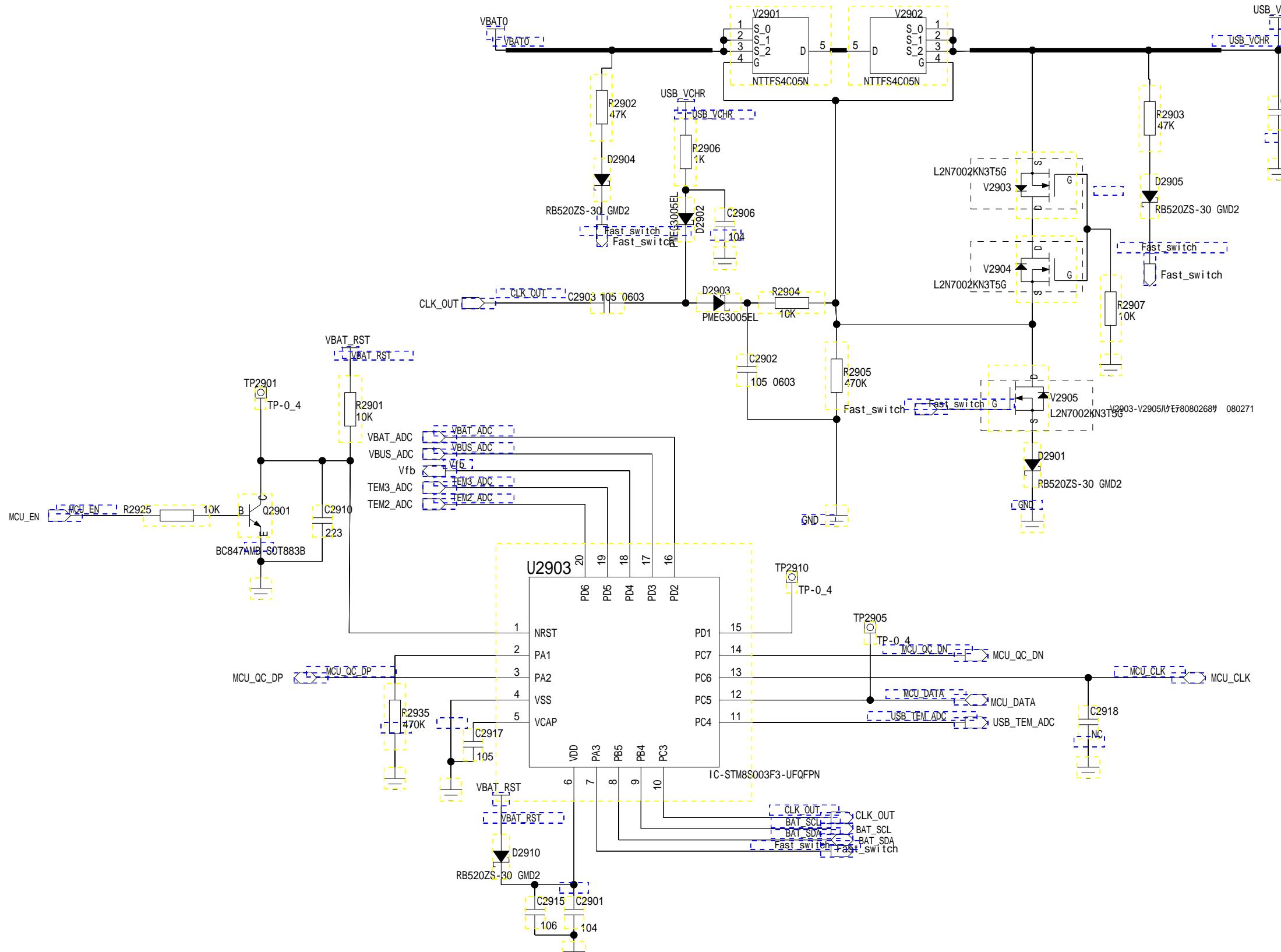
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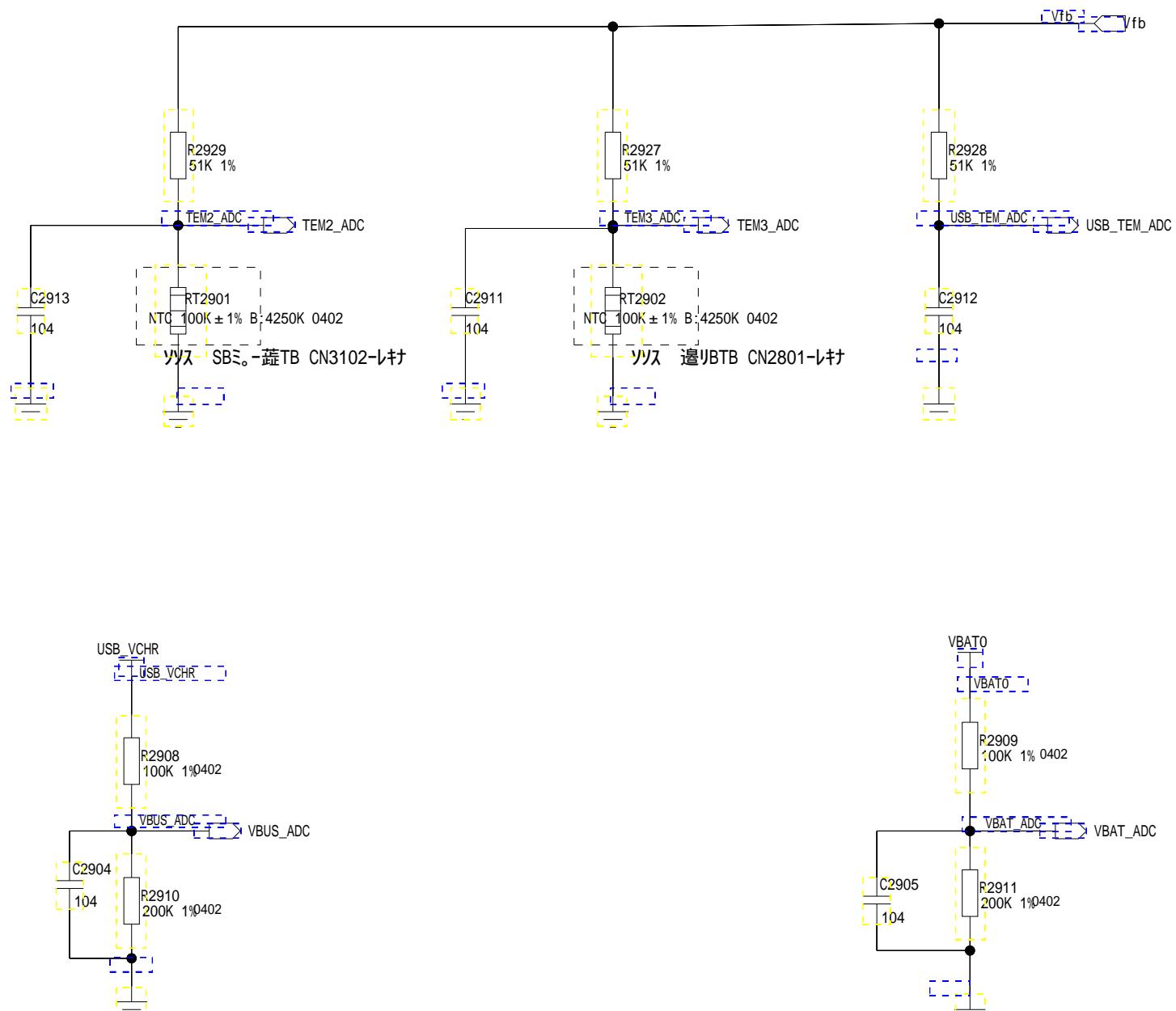
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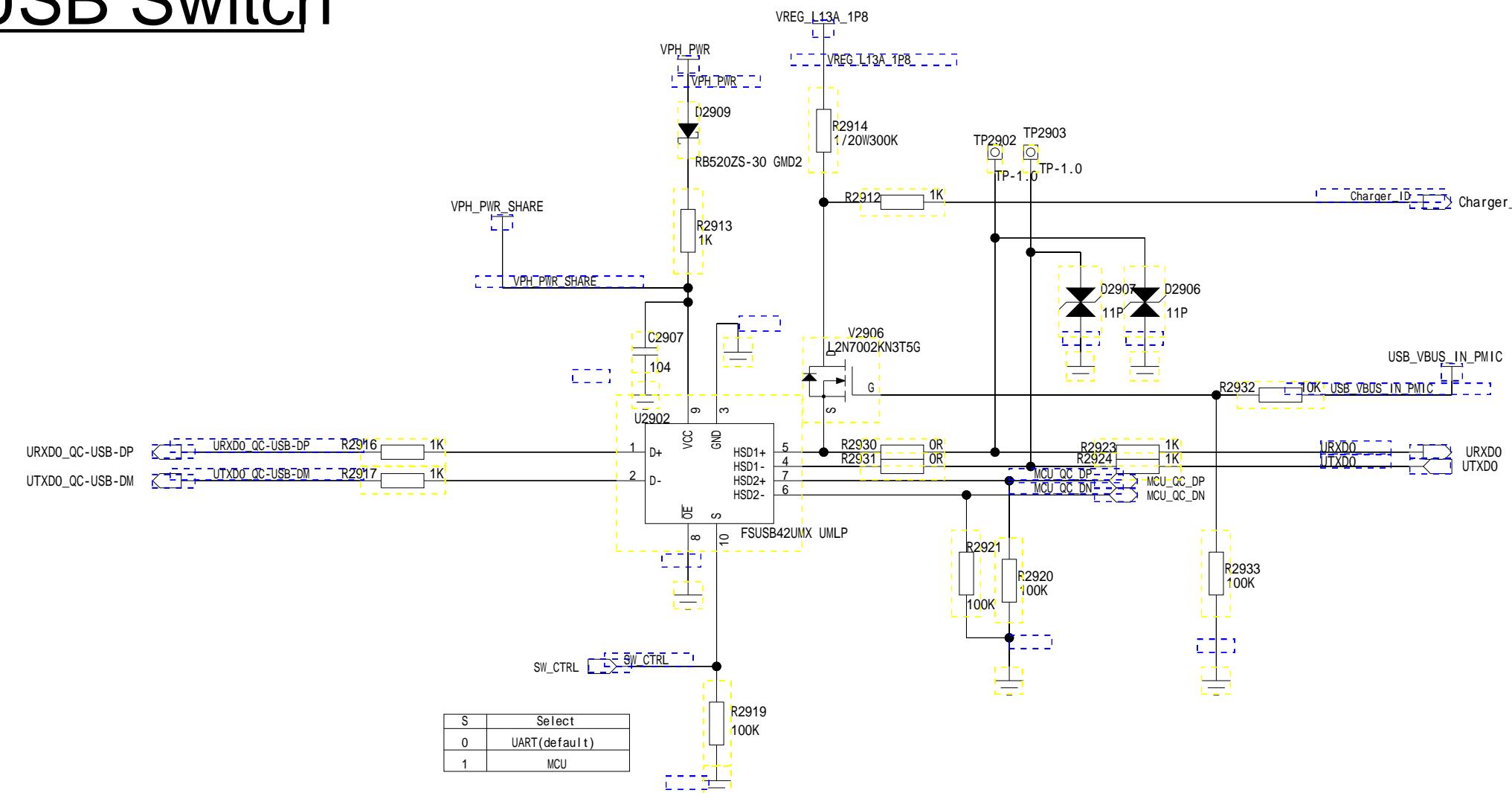
Fast Charge



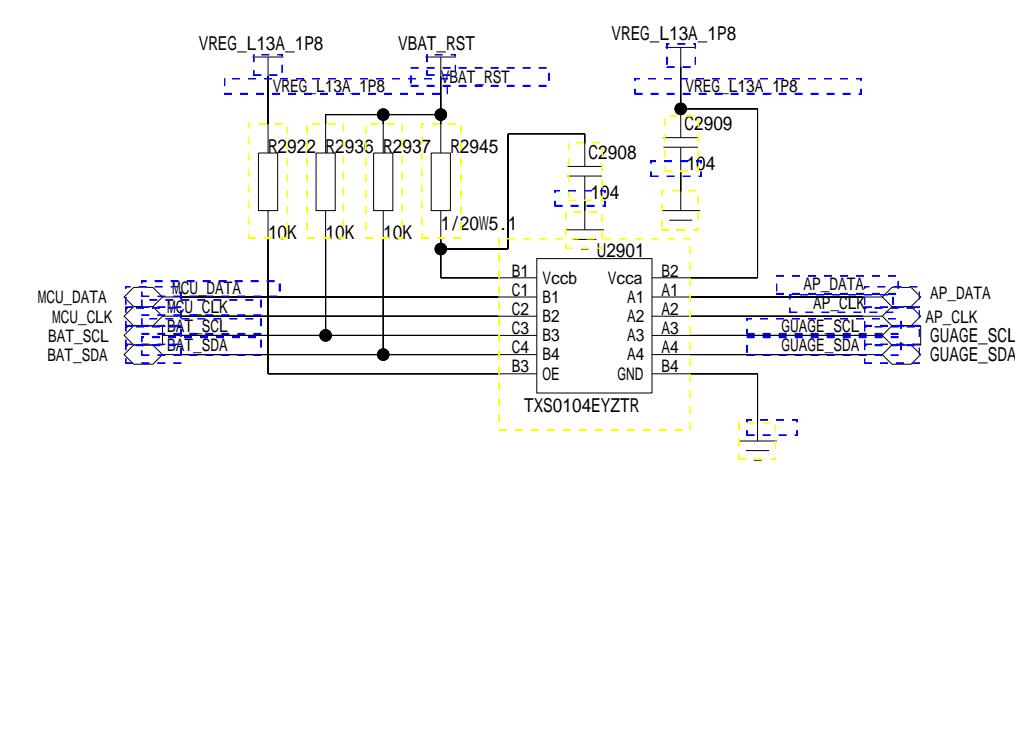
Thermistor



USB Switch



Level Switch



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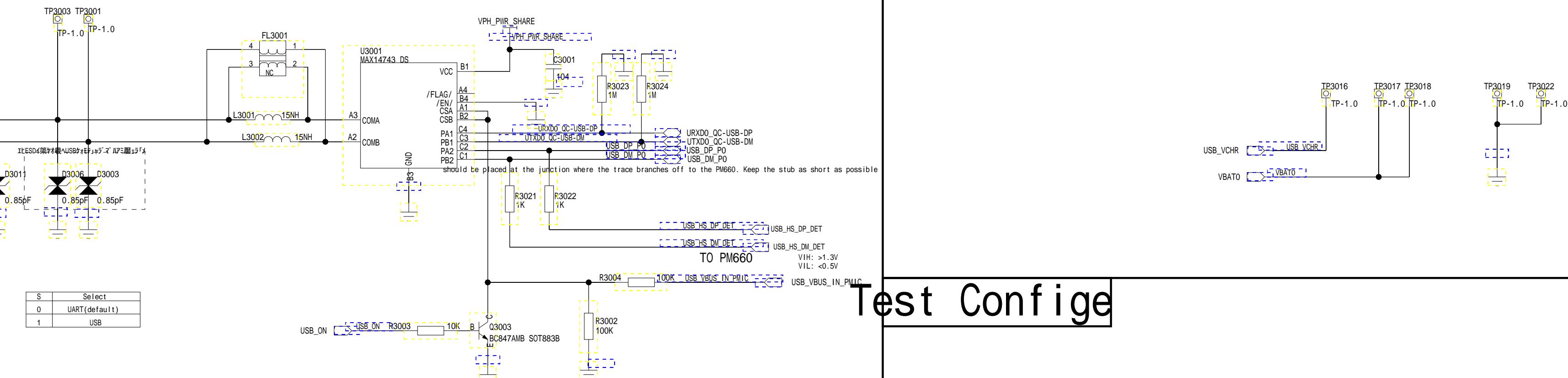
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USB Switch

Test Point

A



Test Confige

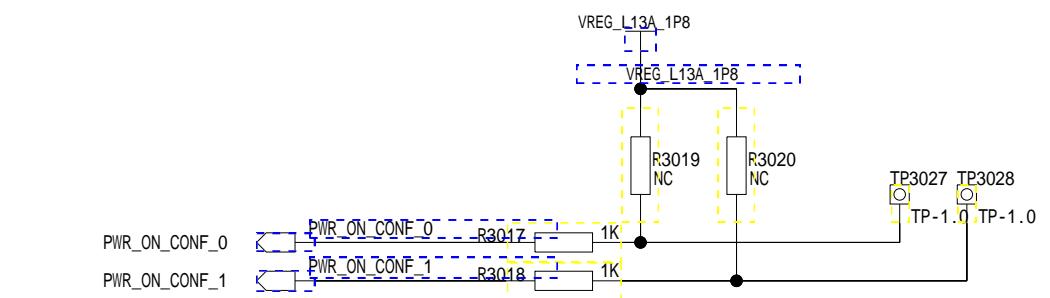
Key of Volume + -

ヨリ電」ライ策ヤ
BOOT MODE

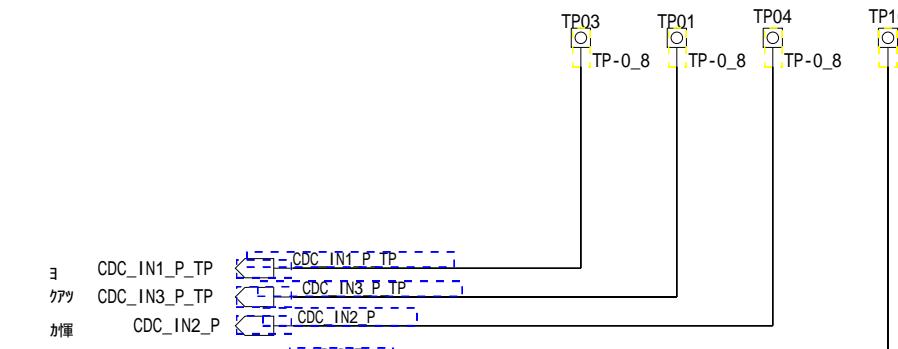
CONF_0	CONF_1	Mode
0	0	Factory Mode
0	1	WLAN Final Test
1	0	RF mode
1	1	Ordinary Power On

Power Key

Full Function Test Point



Force_USB_Boot



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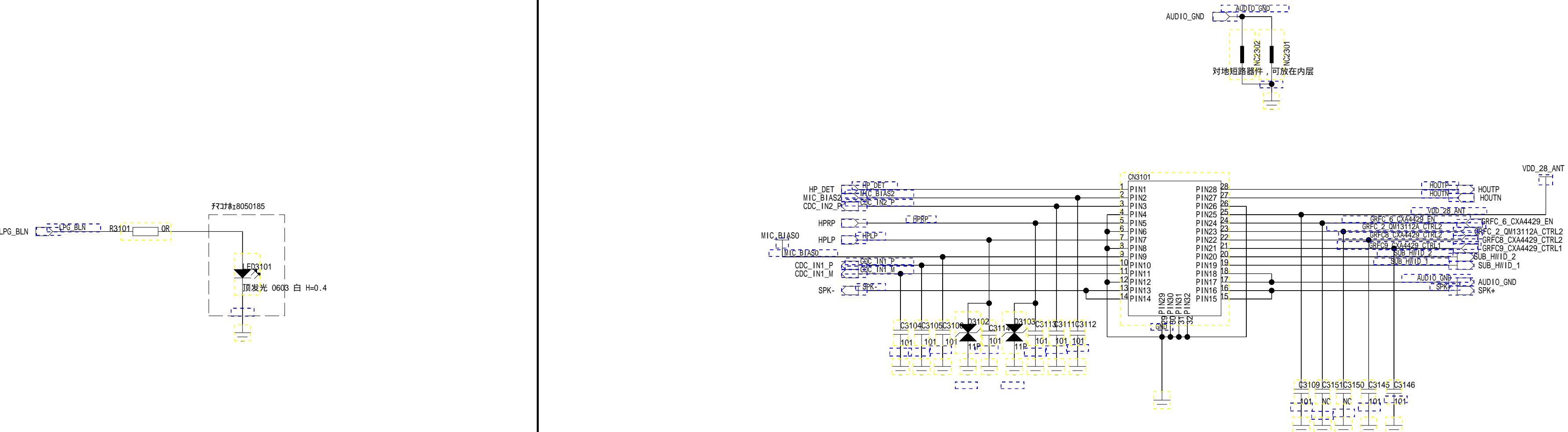
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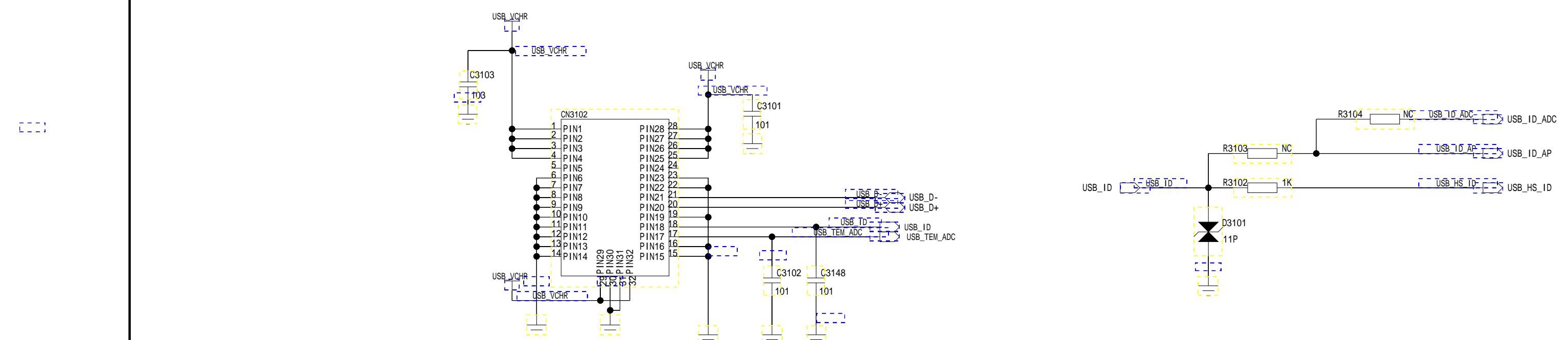
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RGB LED Driver

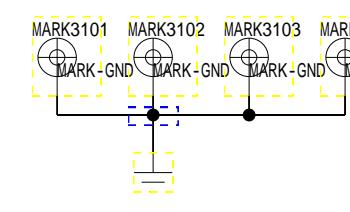
C-FPC_Connector



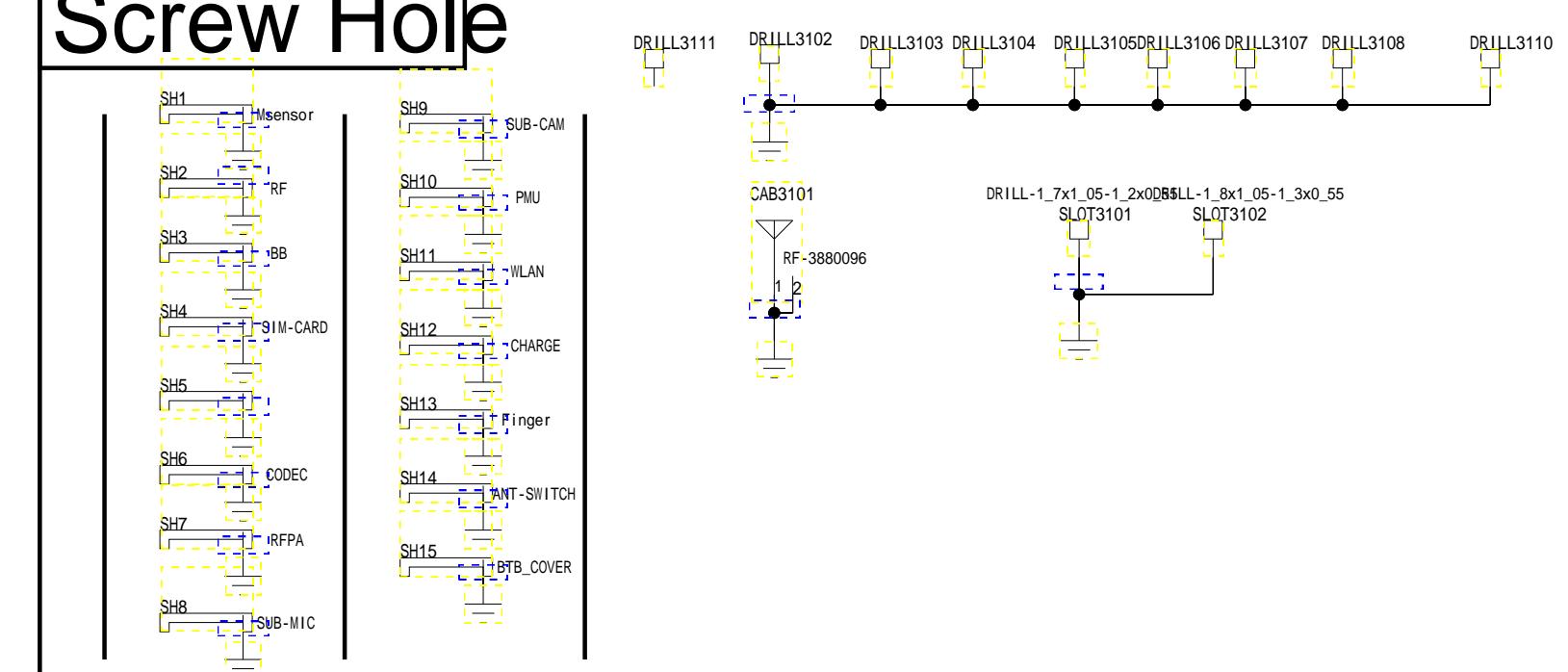
Fast Charger Connector



Mark Point

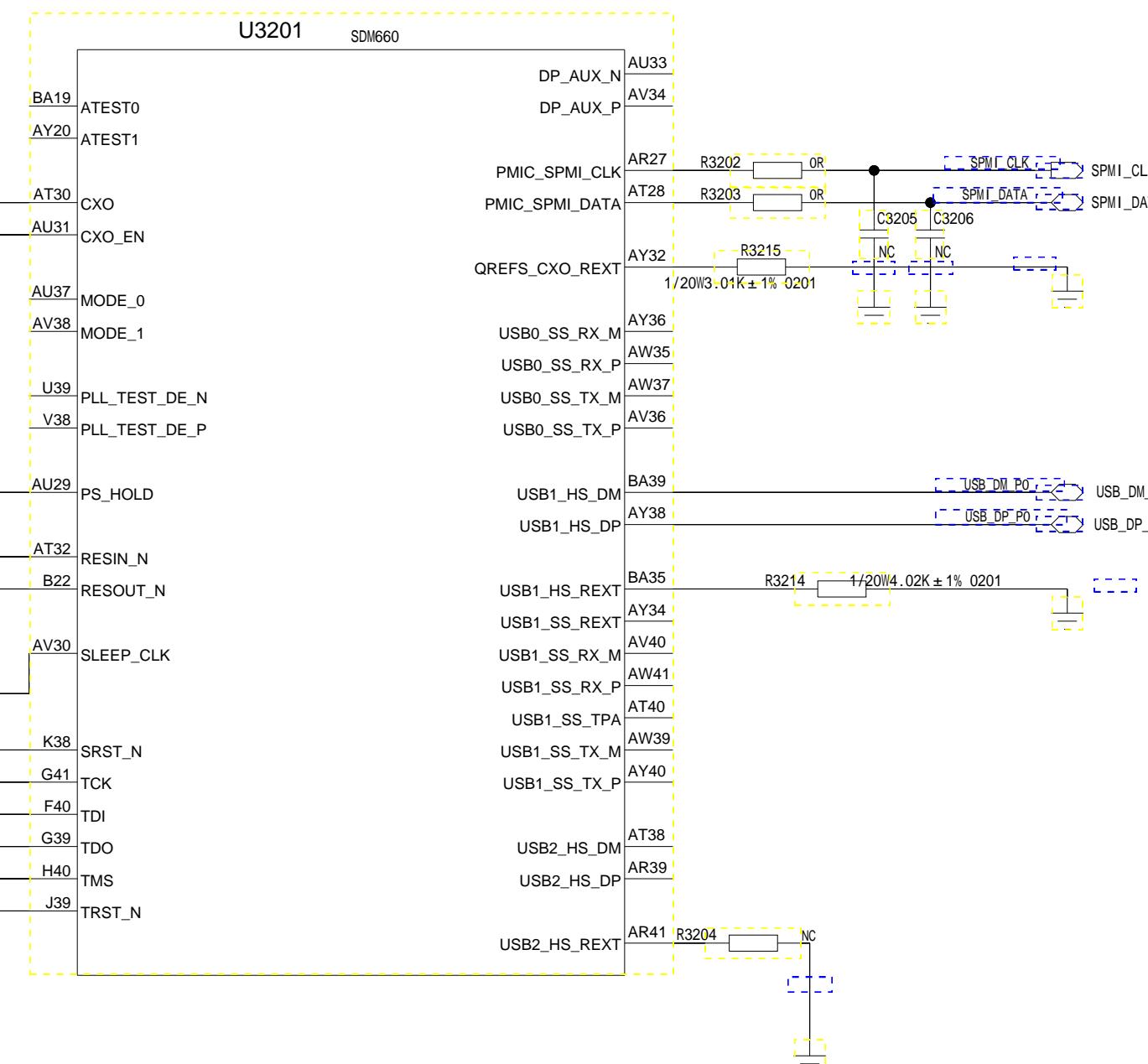


Screw Hole



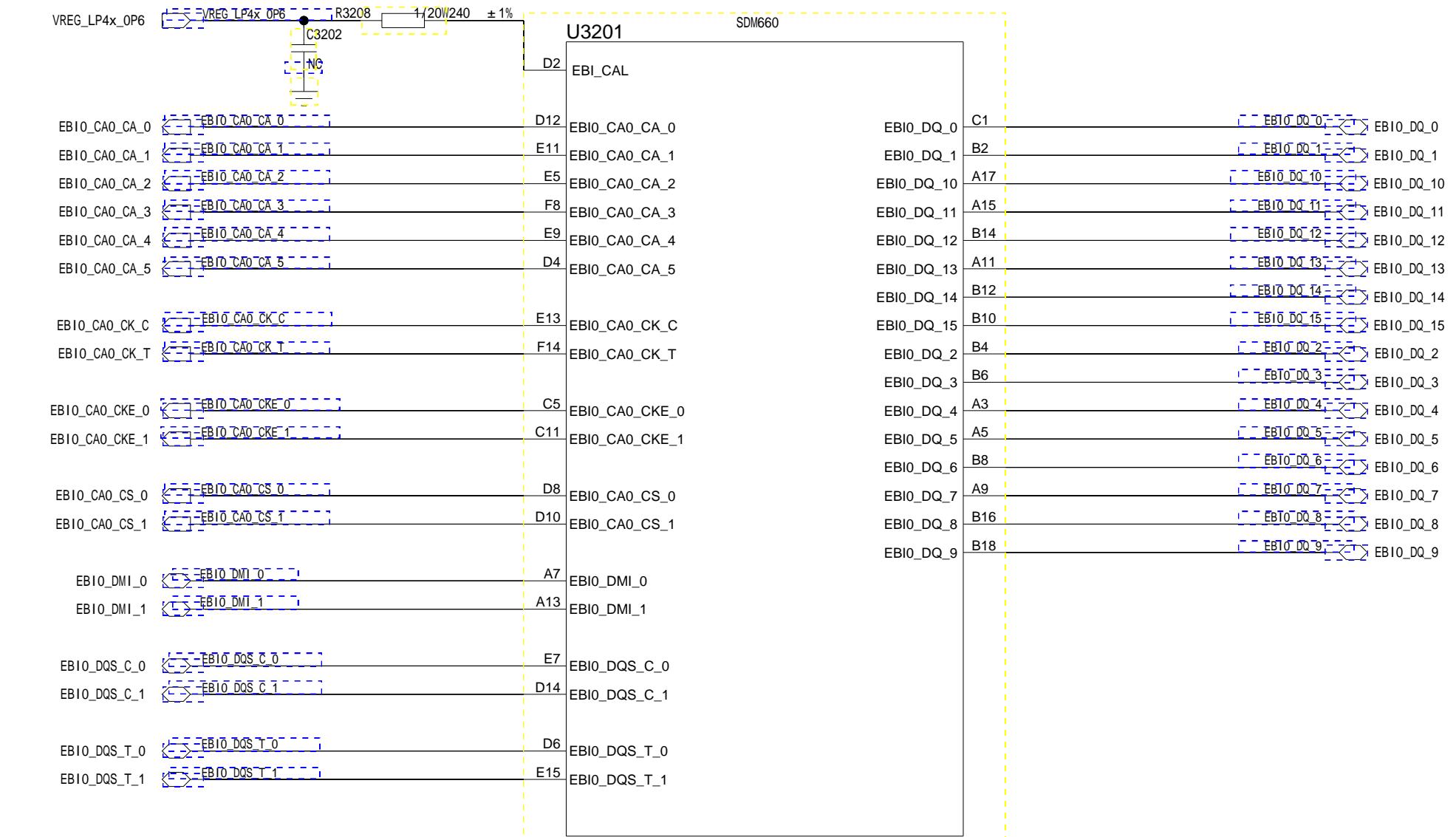
SDM660_PON & USB

A



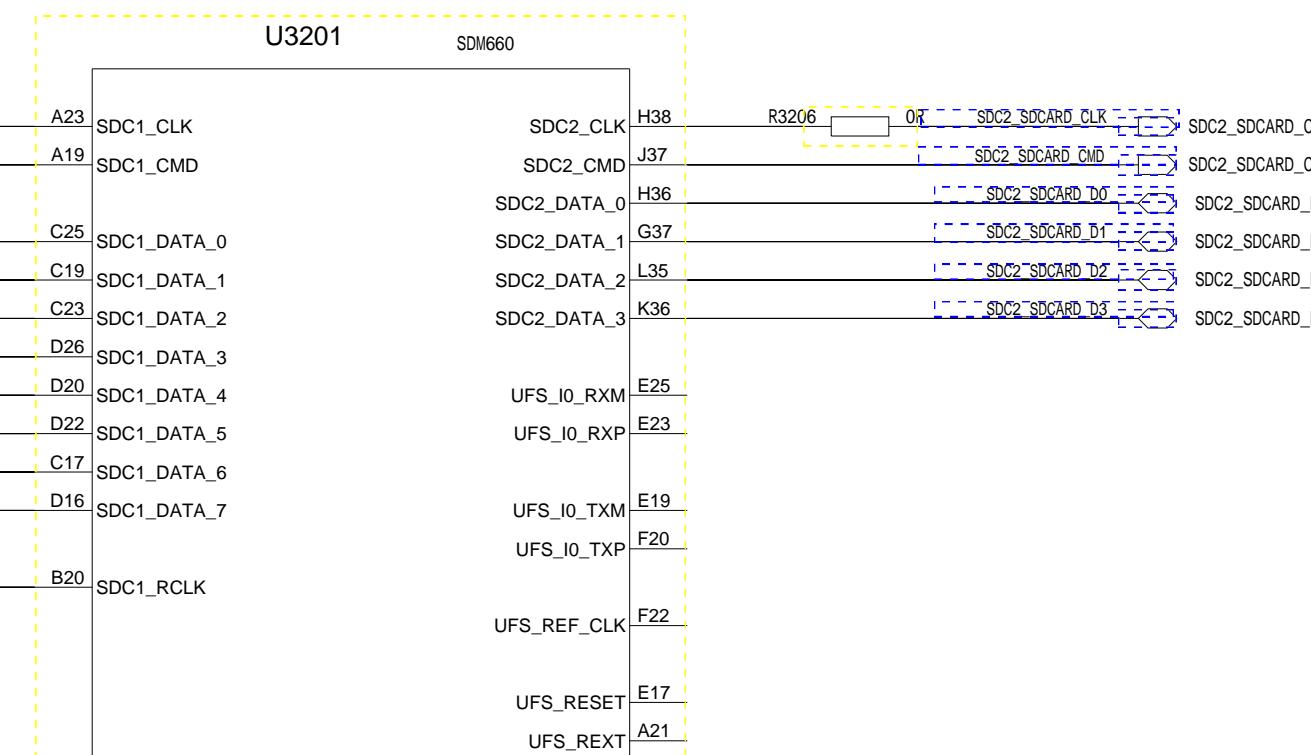
B

SDM660_EBI0



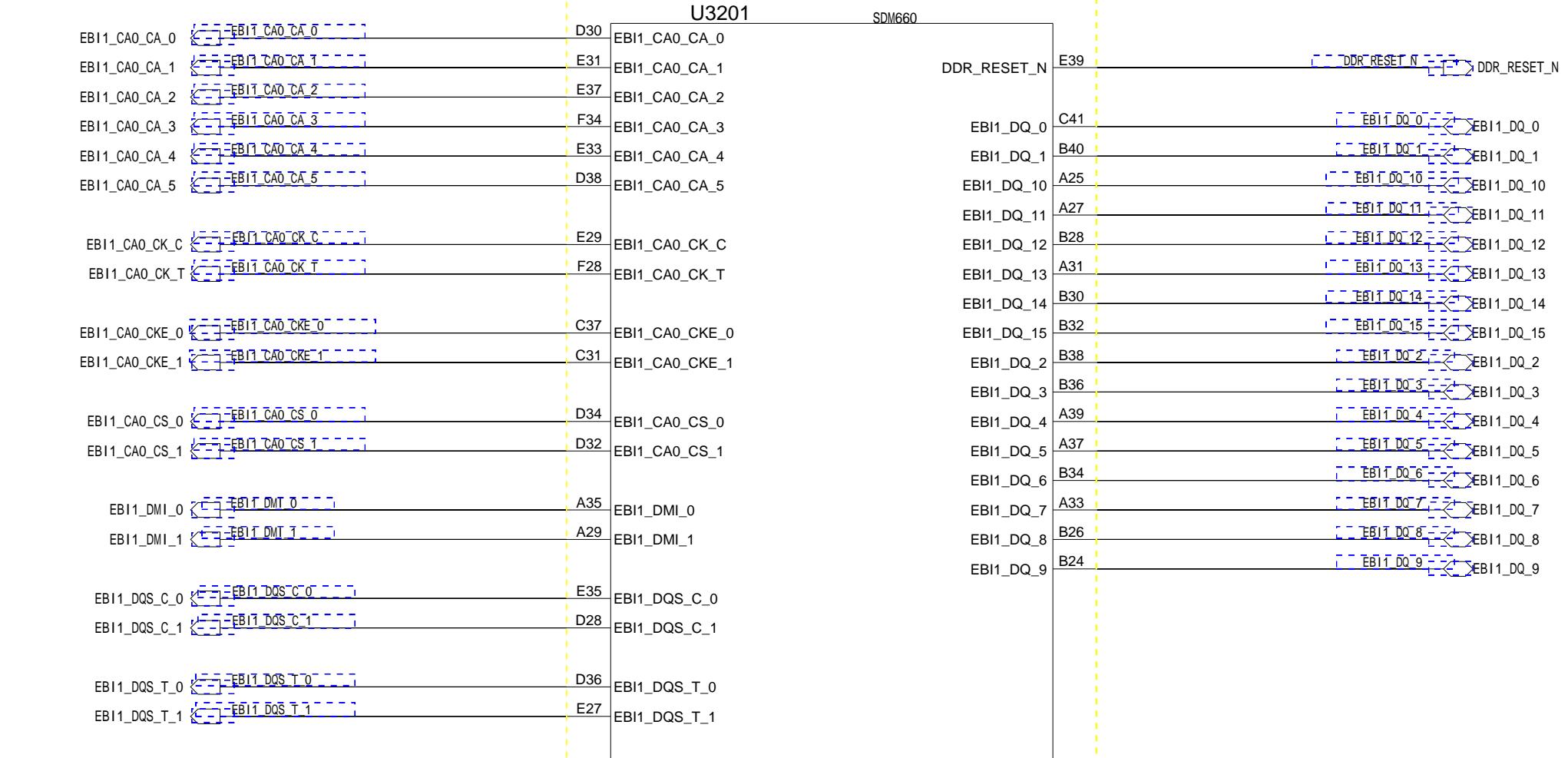
SDM660_SDC

D

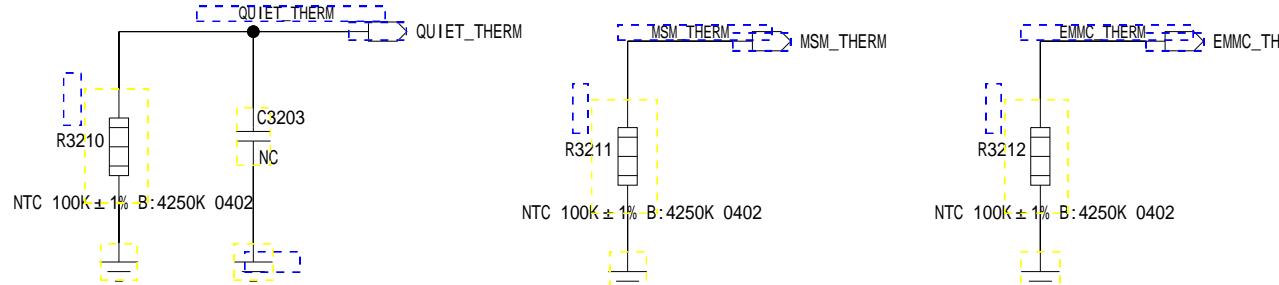


E

SDM660_EBI1

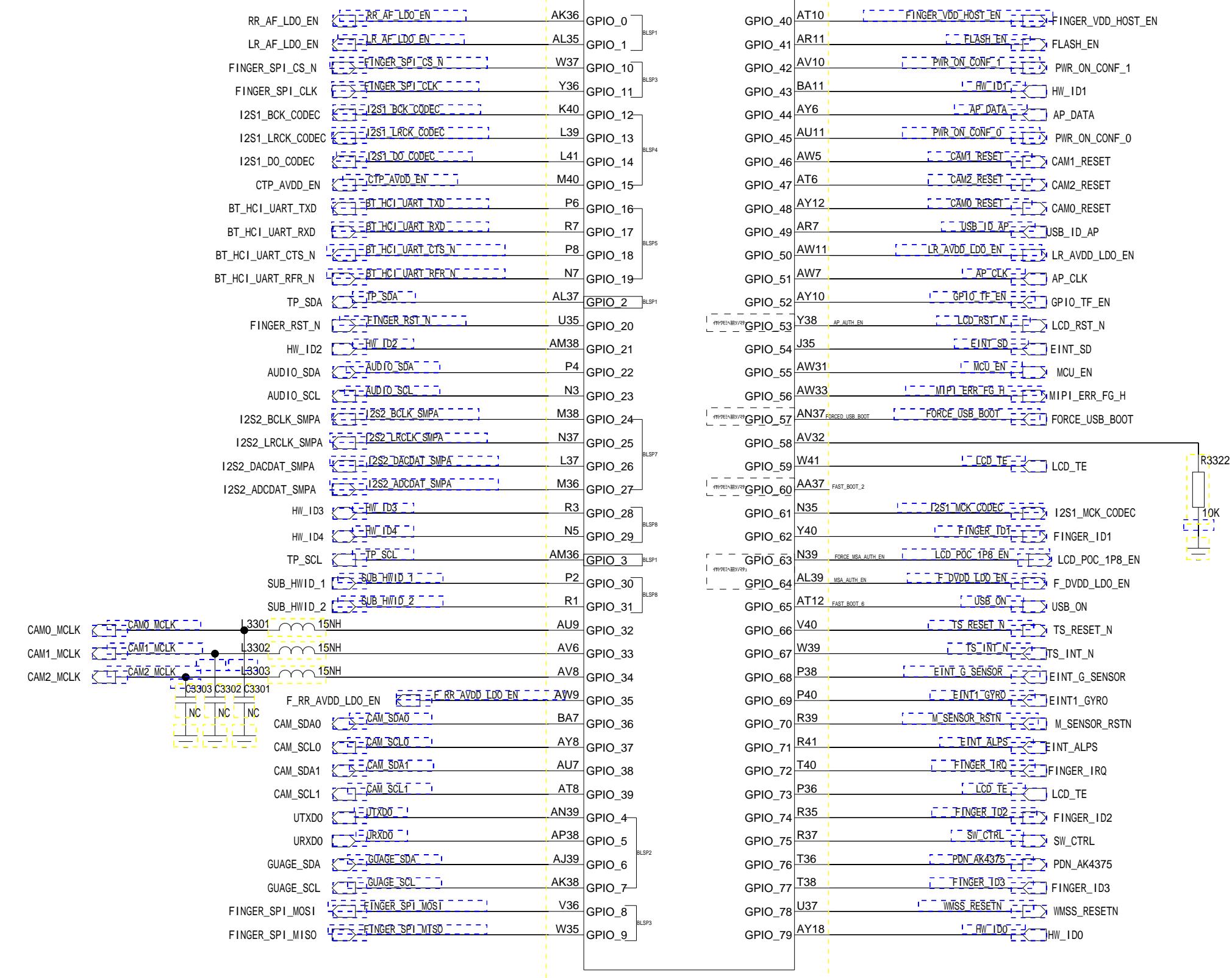


F



SDM660_GPI000-79

A



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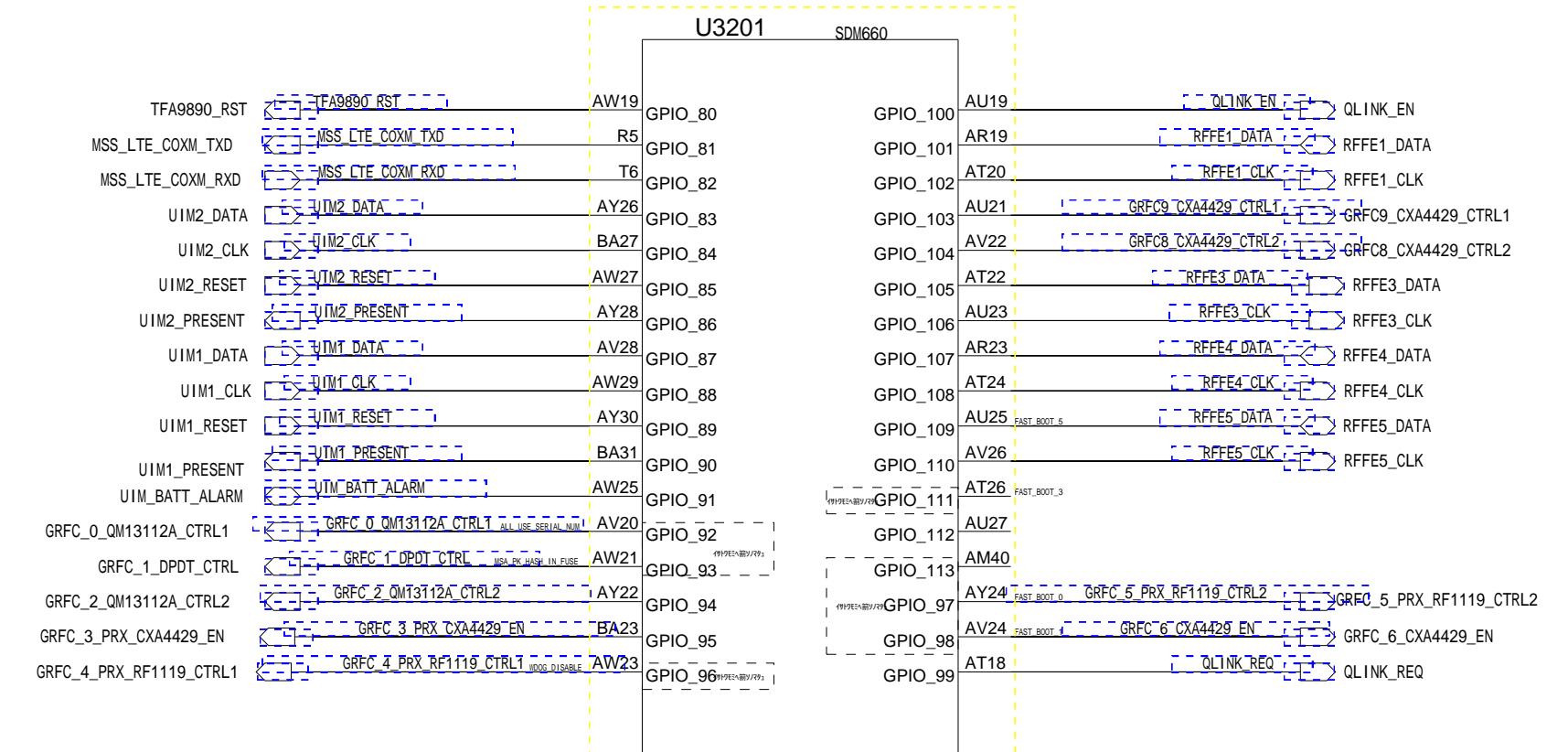
D

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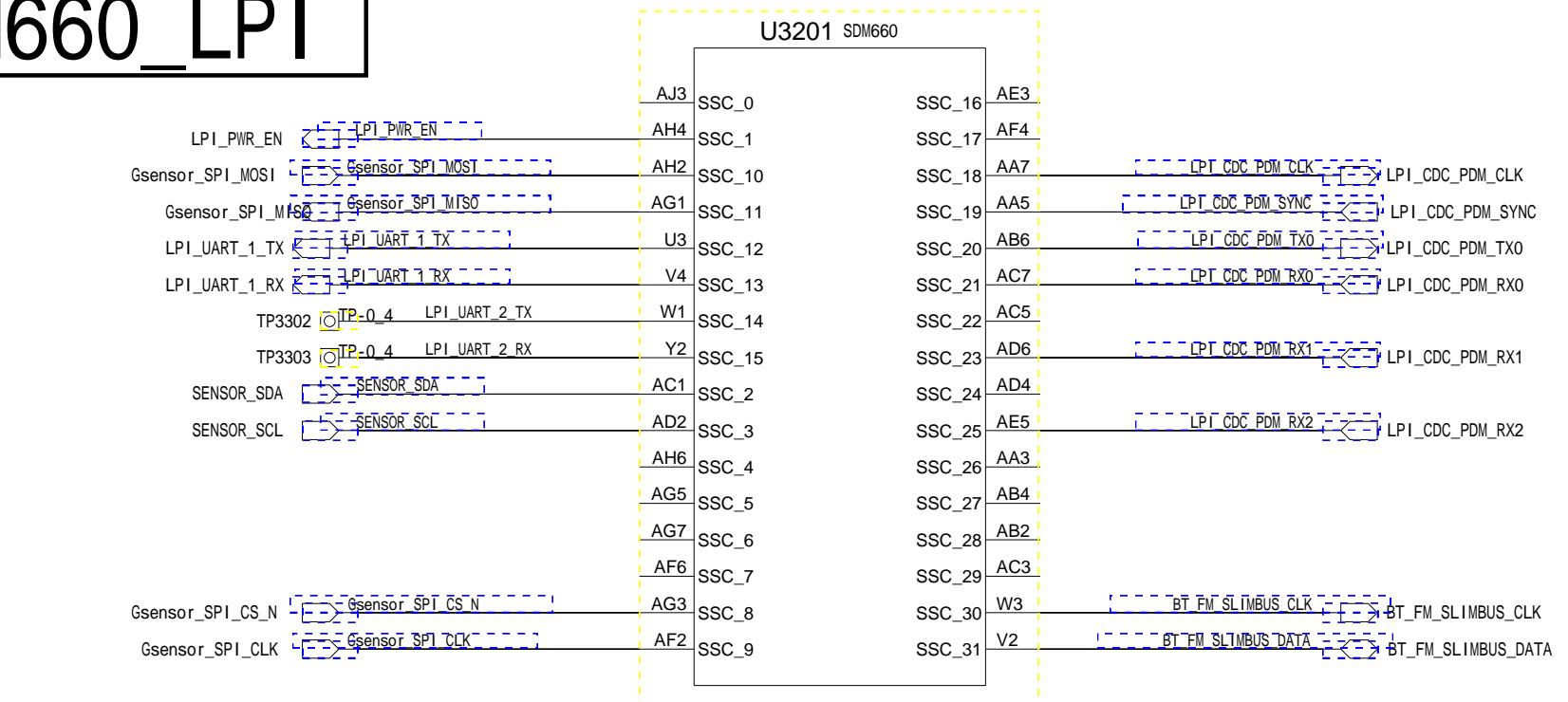
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SDM660_GP1080-100

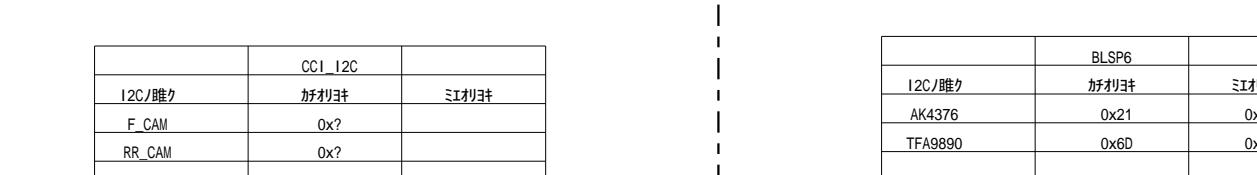
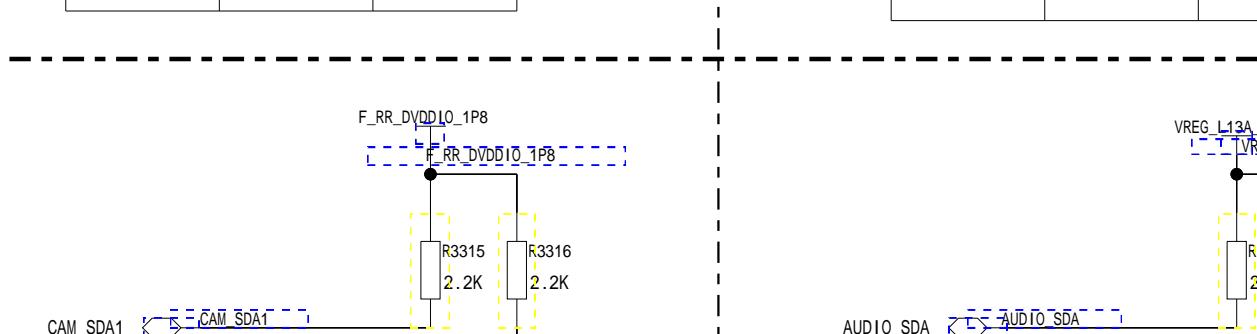
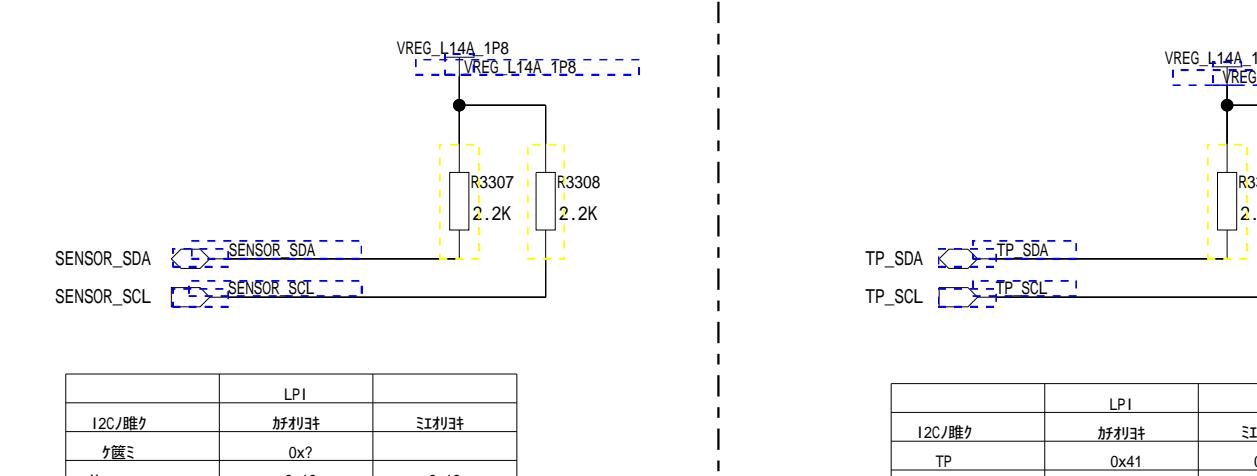
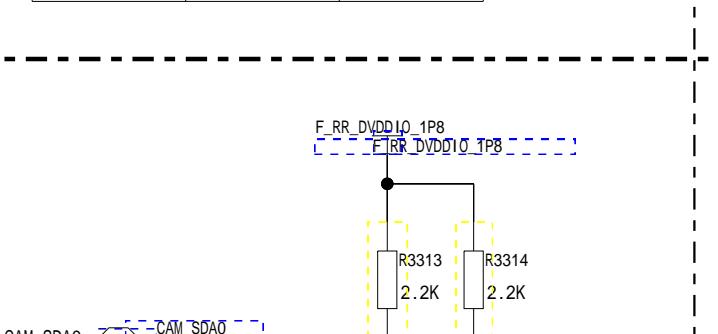
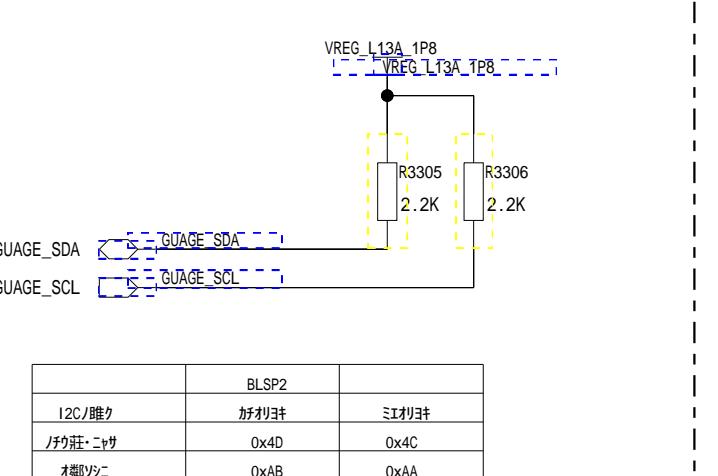
A



SDM660_LPI



MainBoard_Hardware ID	Boot	Configuration GPIO Settings	Fast_BOOT Configuration																																																															
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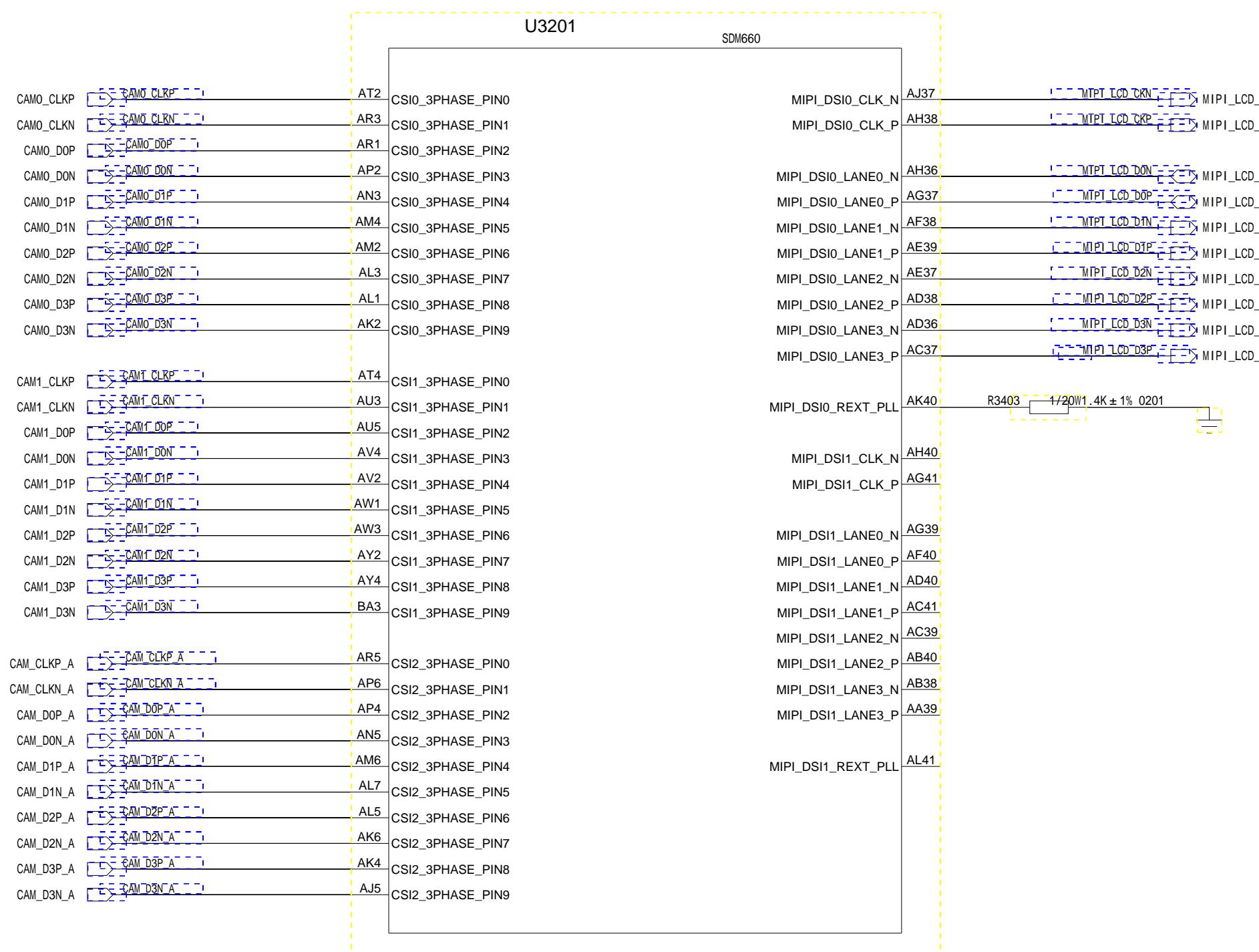
MainBoard_Hardware ID

Boot

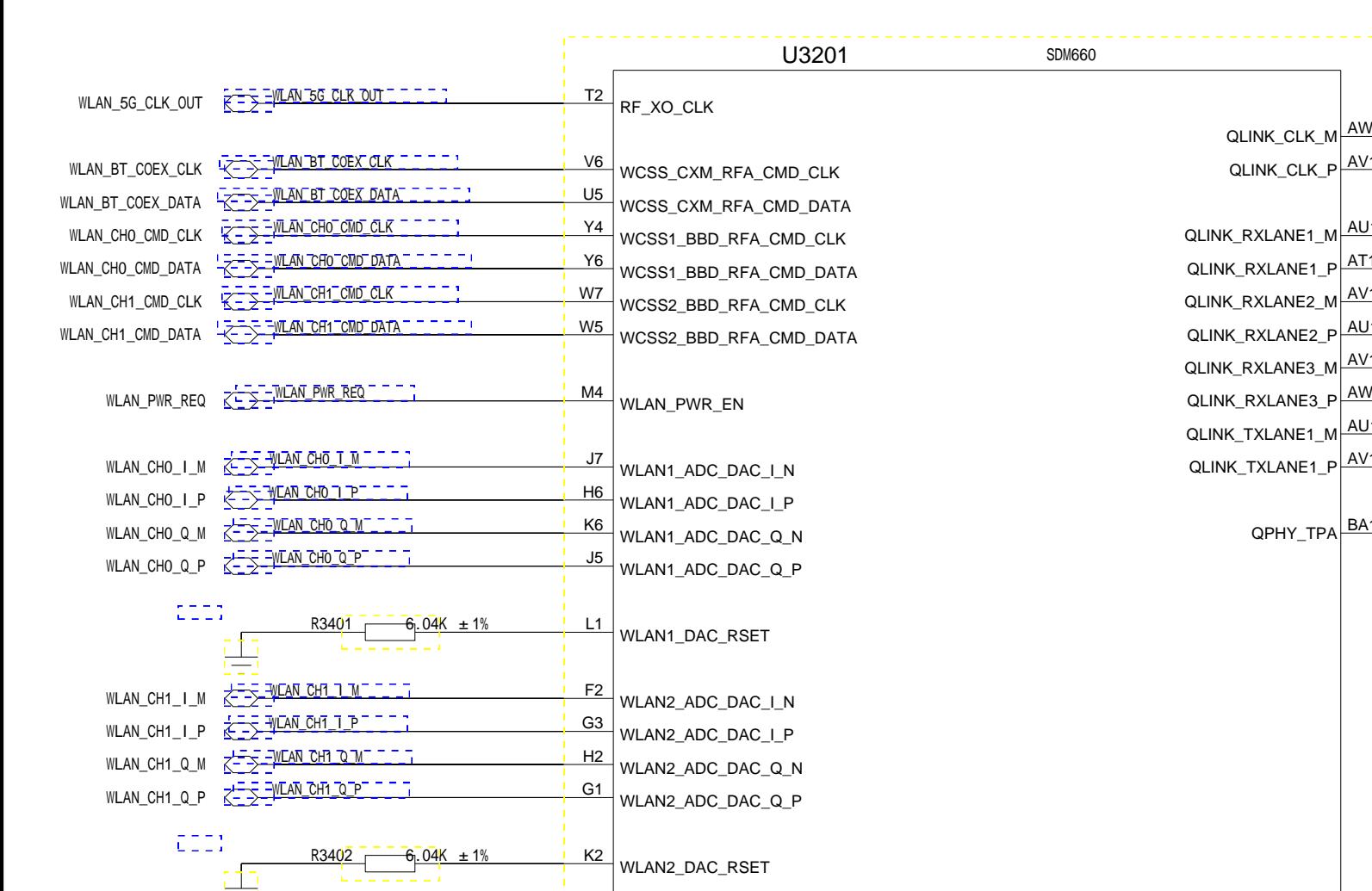
Configuration GPIO Settings

Fast_BOOT Configuration

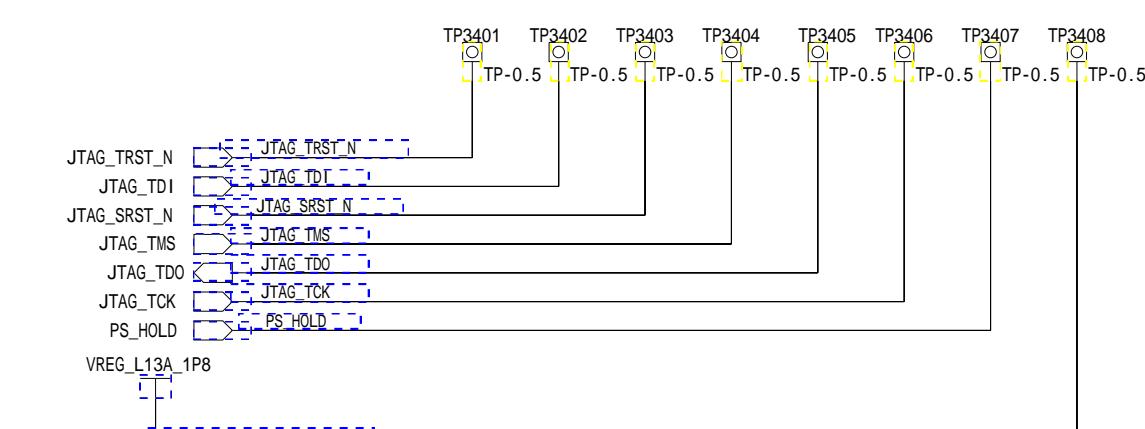
SDM660_MIPI For CSI&DSI



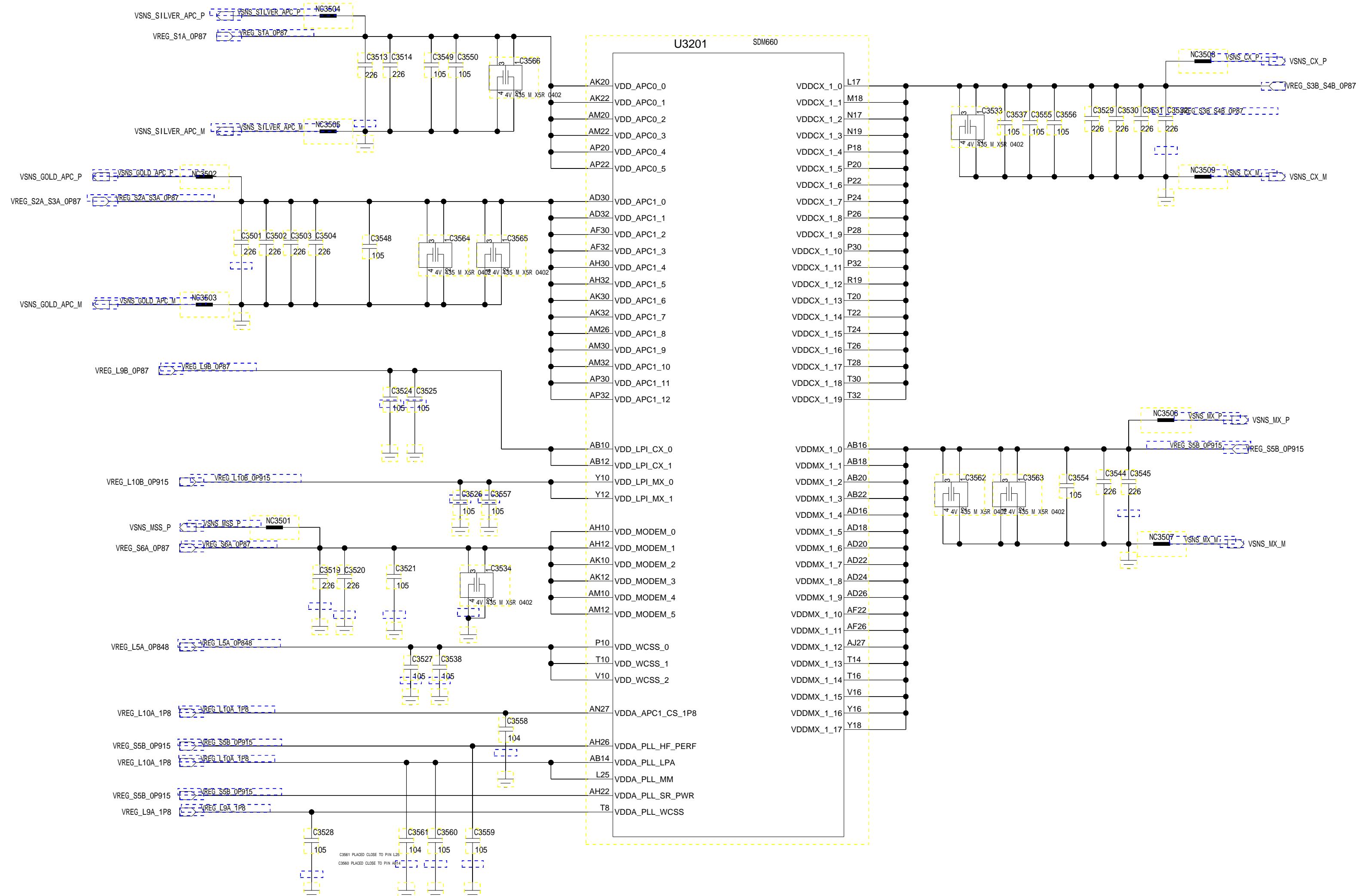
SDM660_WLAN

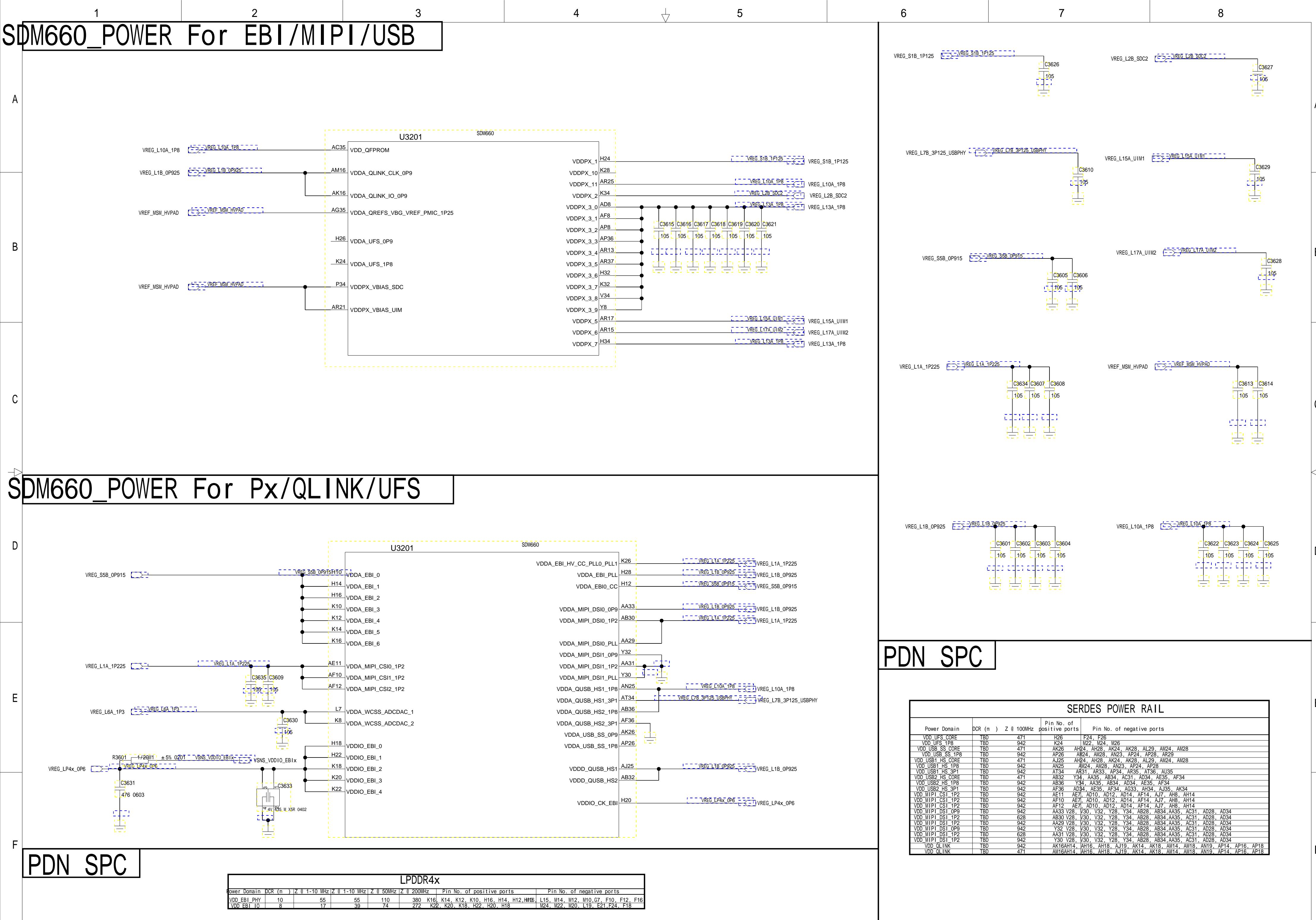


JTAG TEST POINT



SDM660_POWER For APC&CX&MX





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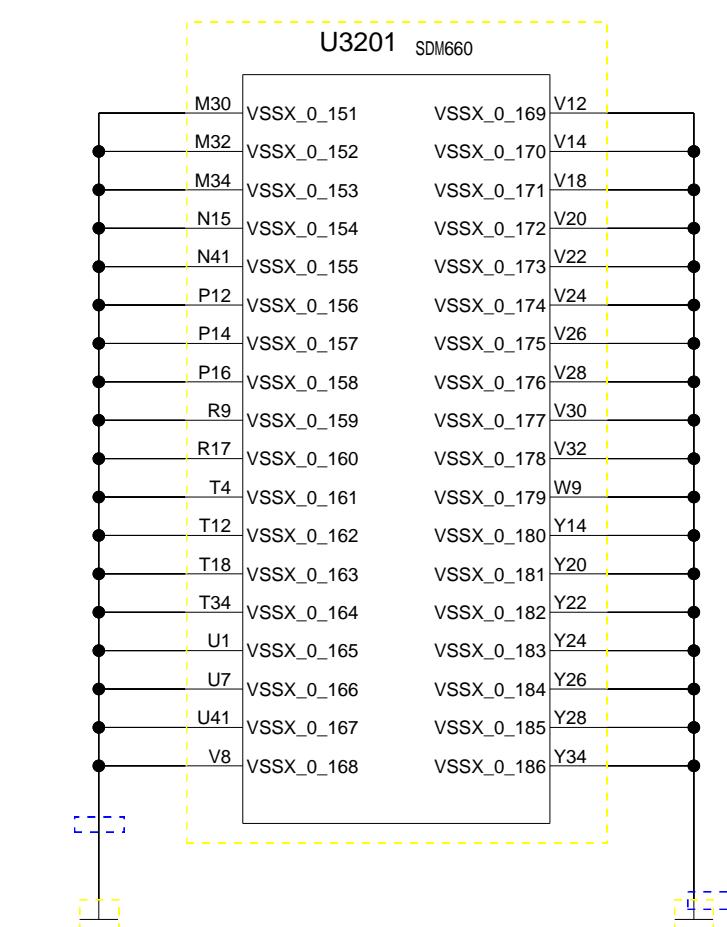
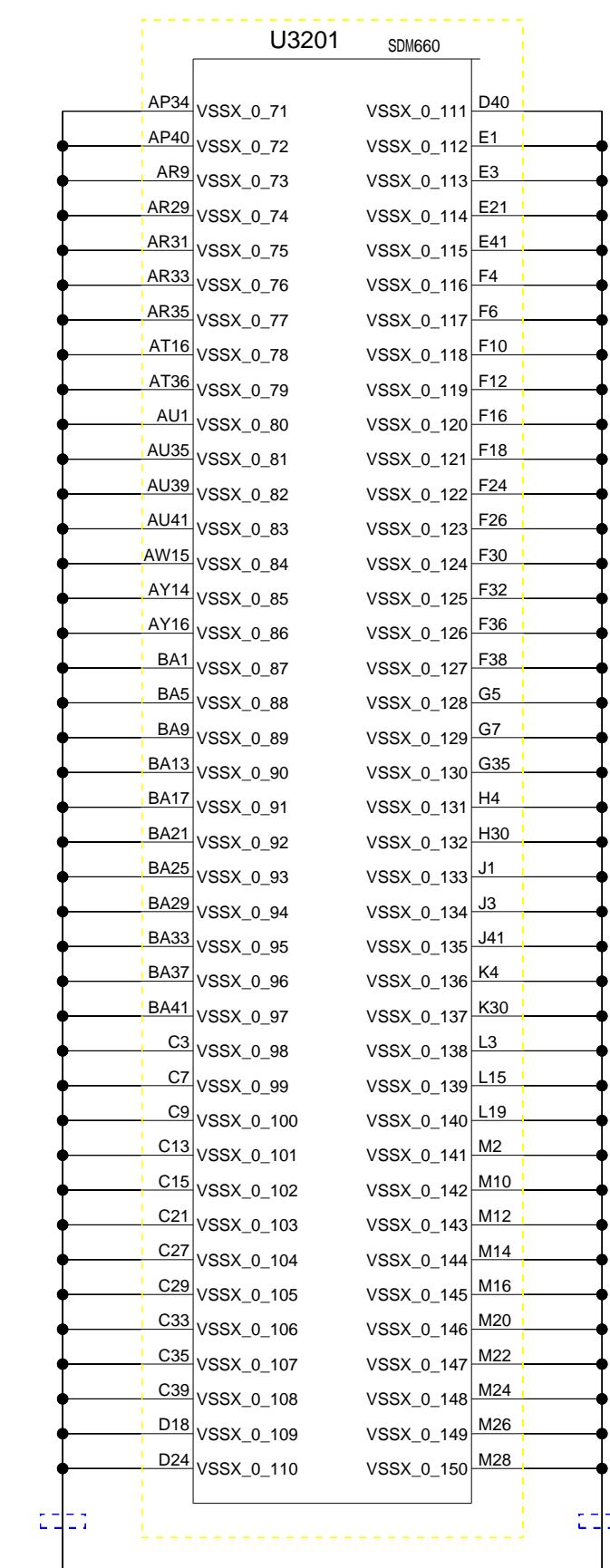
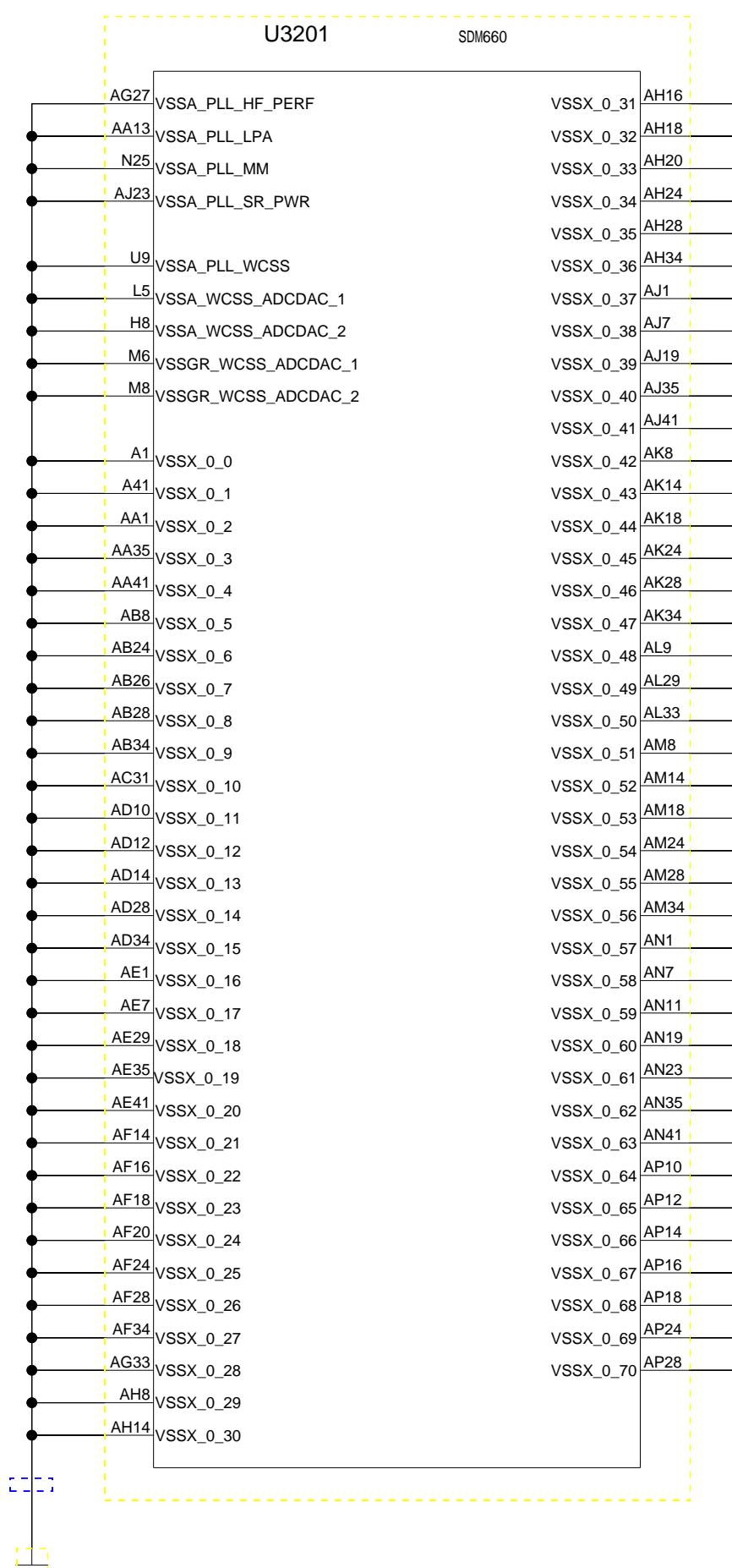
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SDM660-GND

SDM660-GND

SDM660-GND

A



B

C

D

E

F

A

B

C

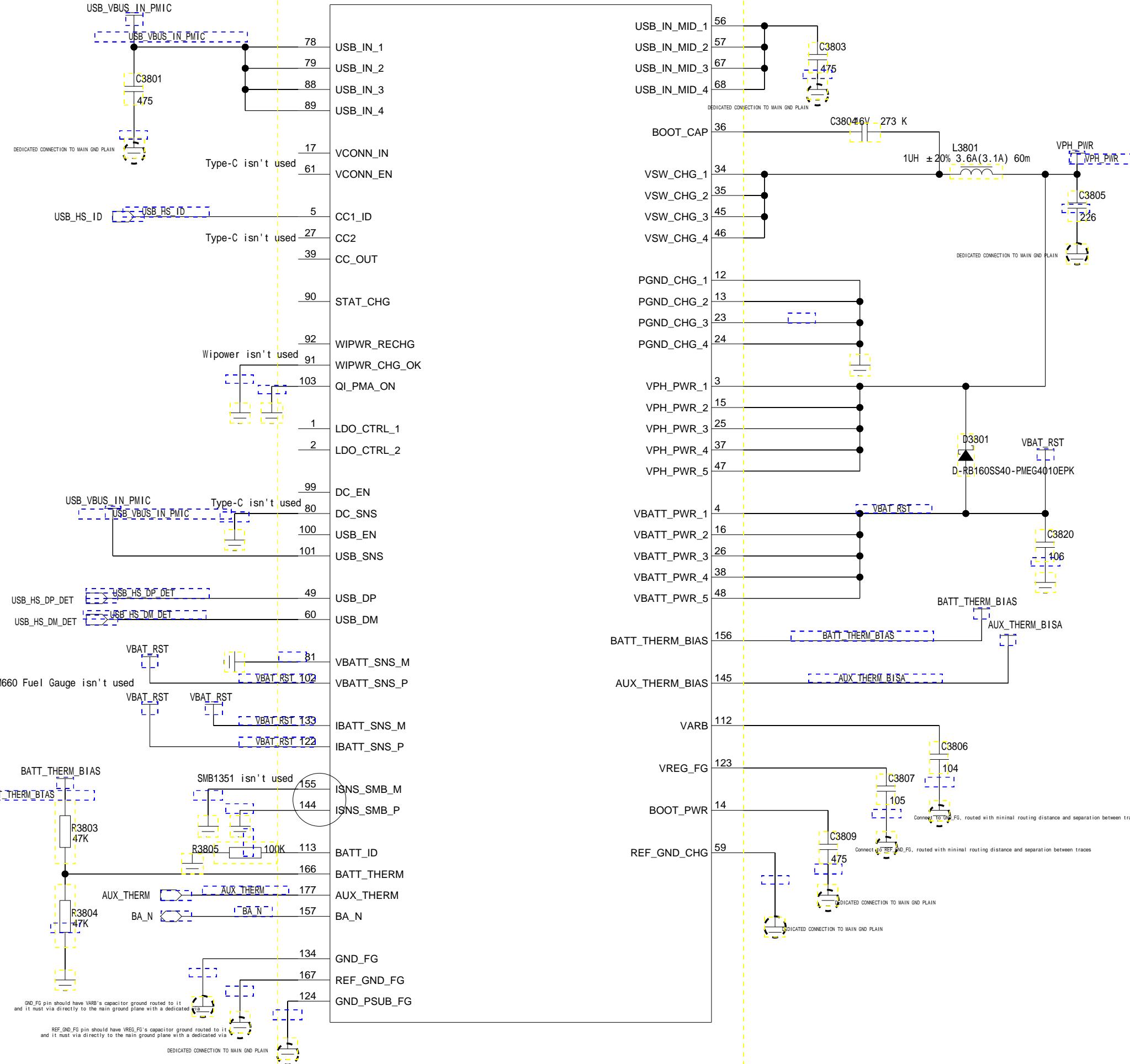
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E

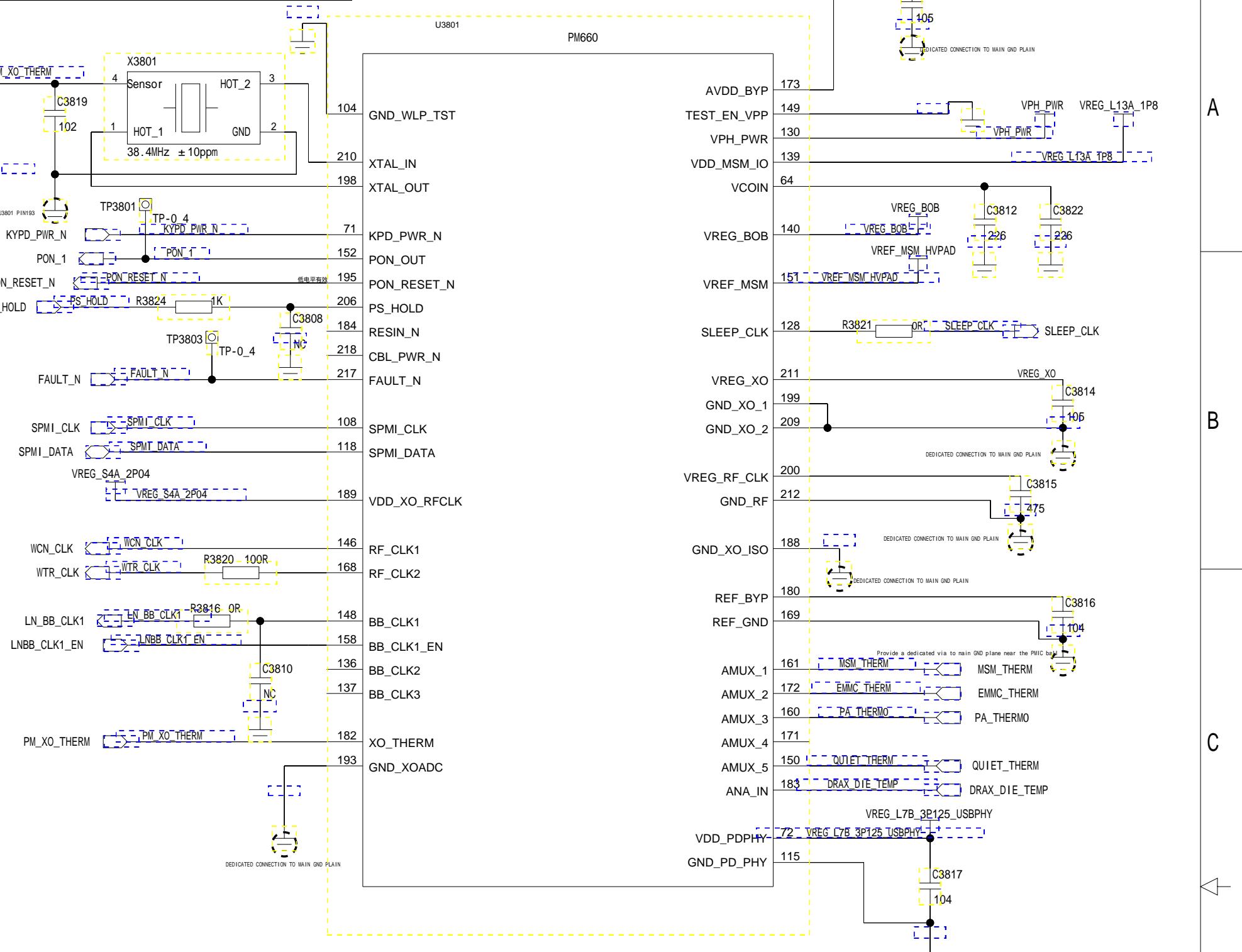
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Schematic

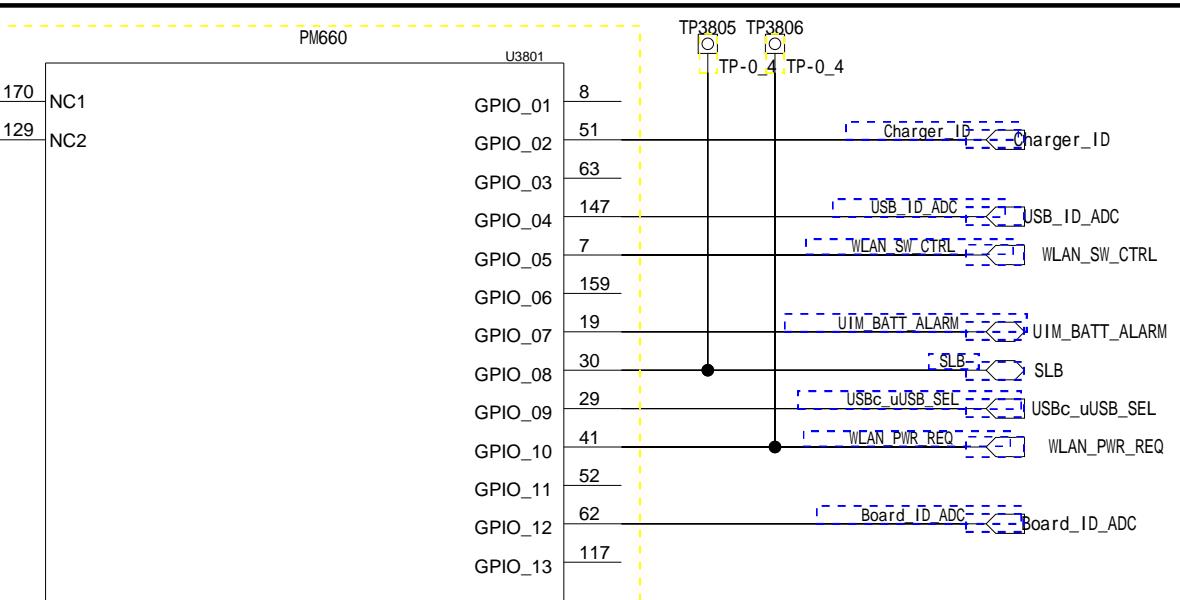
PM660_Charger



PM660_Control_CLK



PM660_GPIO



USB CON Temp

Board_ID_ADC

USBC_uUSB_SEL
is LOW for uUSB

LOW HIGH TypeC

1

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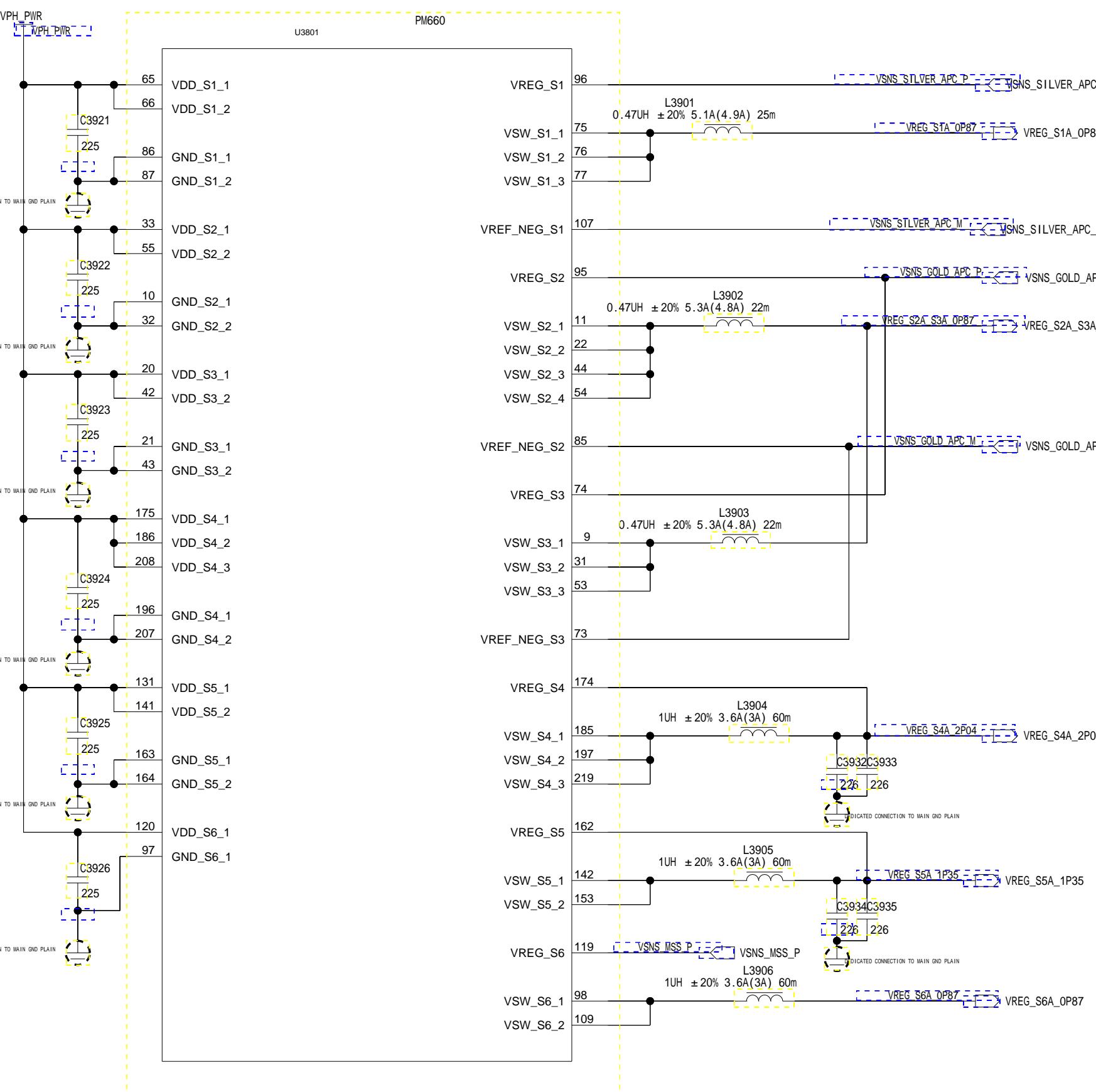
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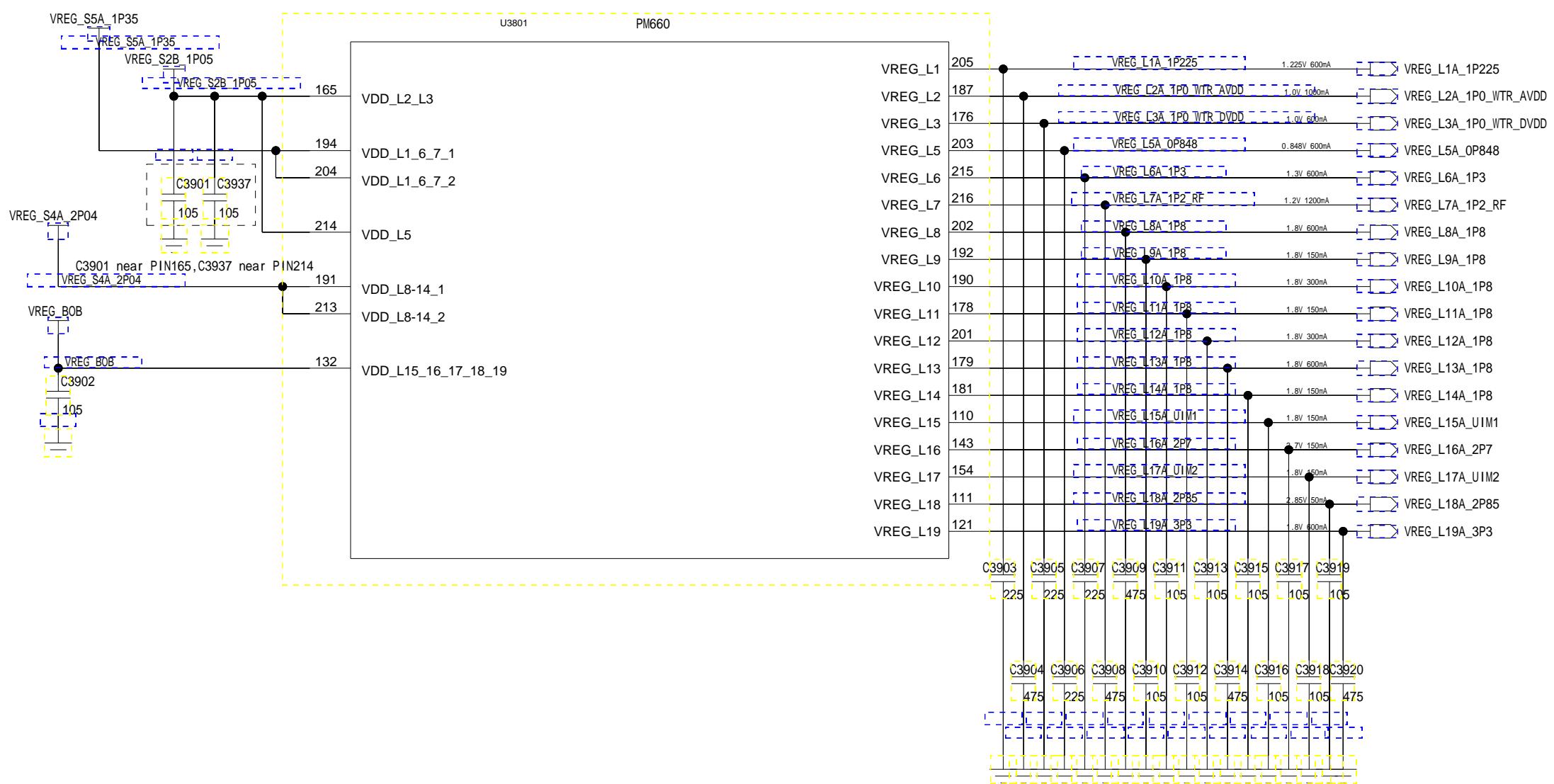
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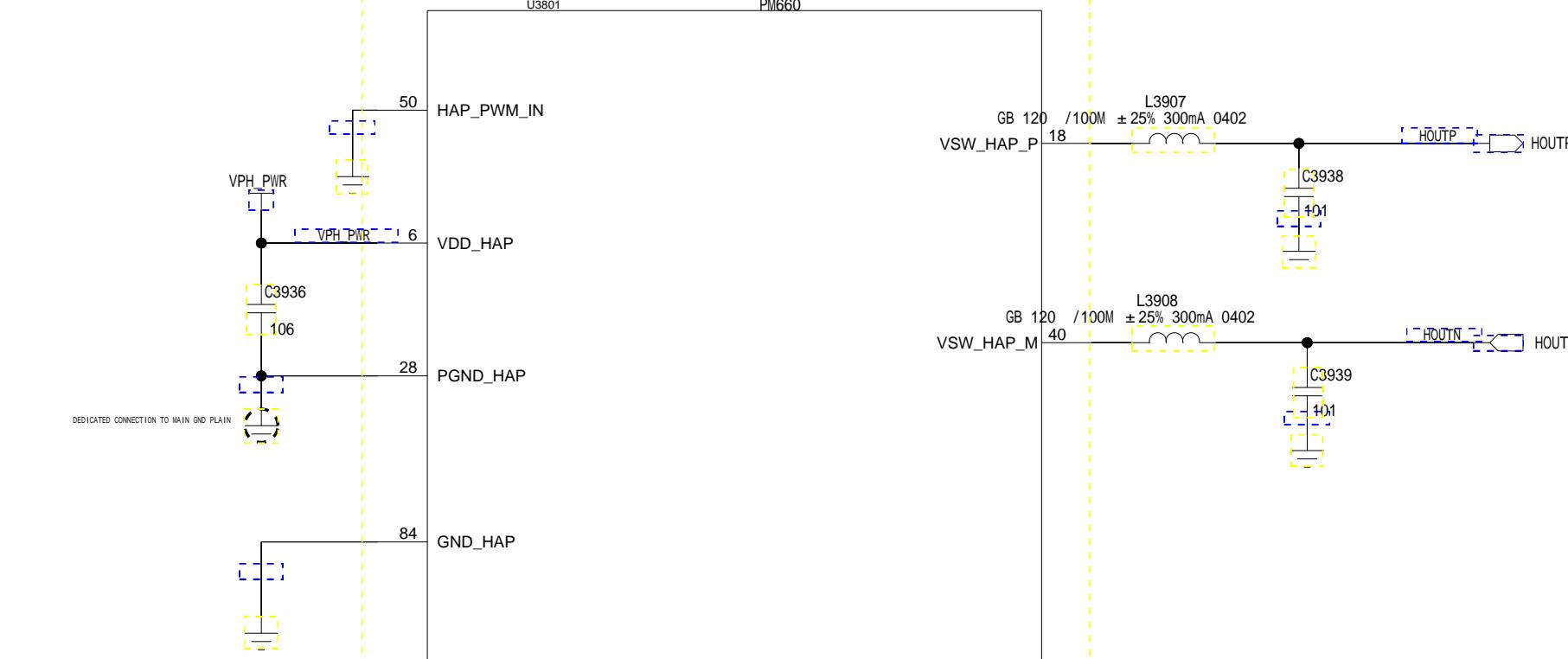
PM660_HF/FT SMPS



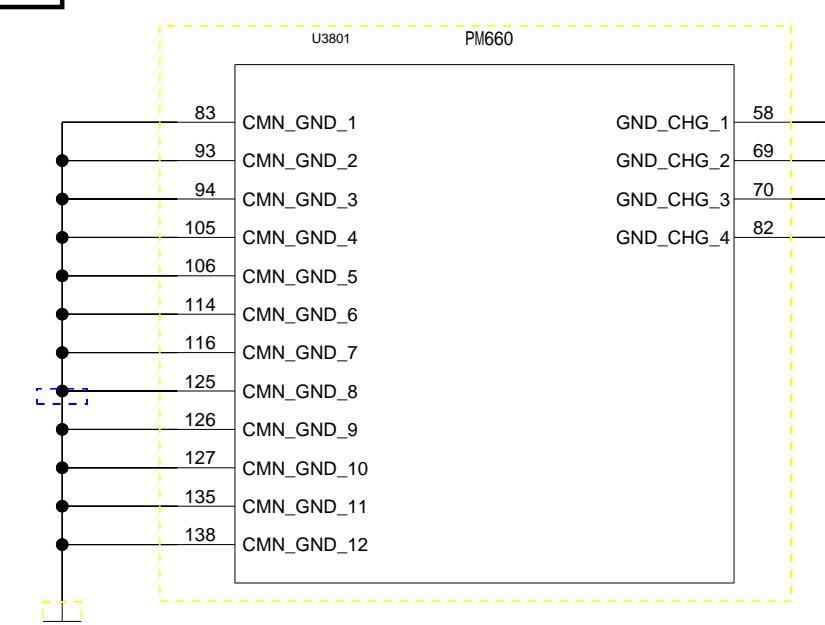
PM660_LDO



PM660_Haptics



PM660_GND



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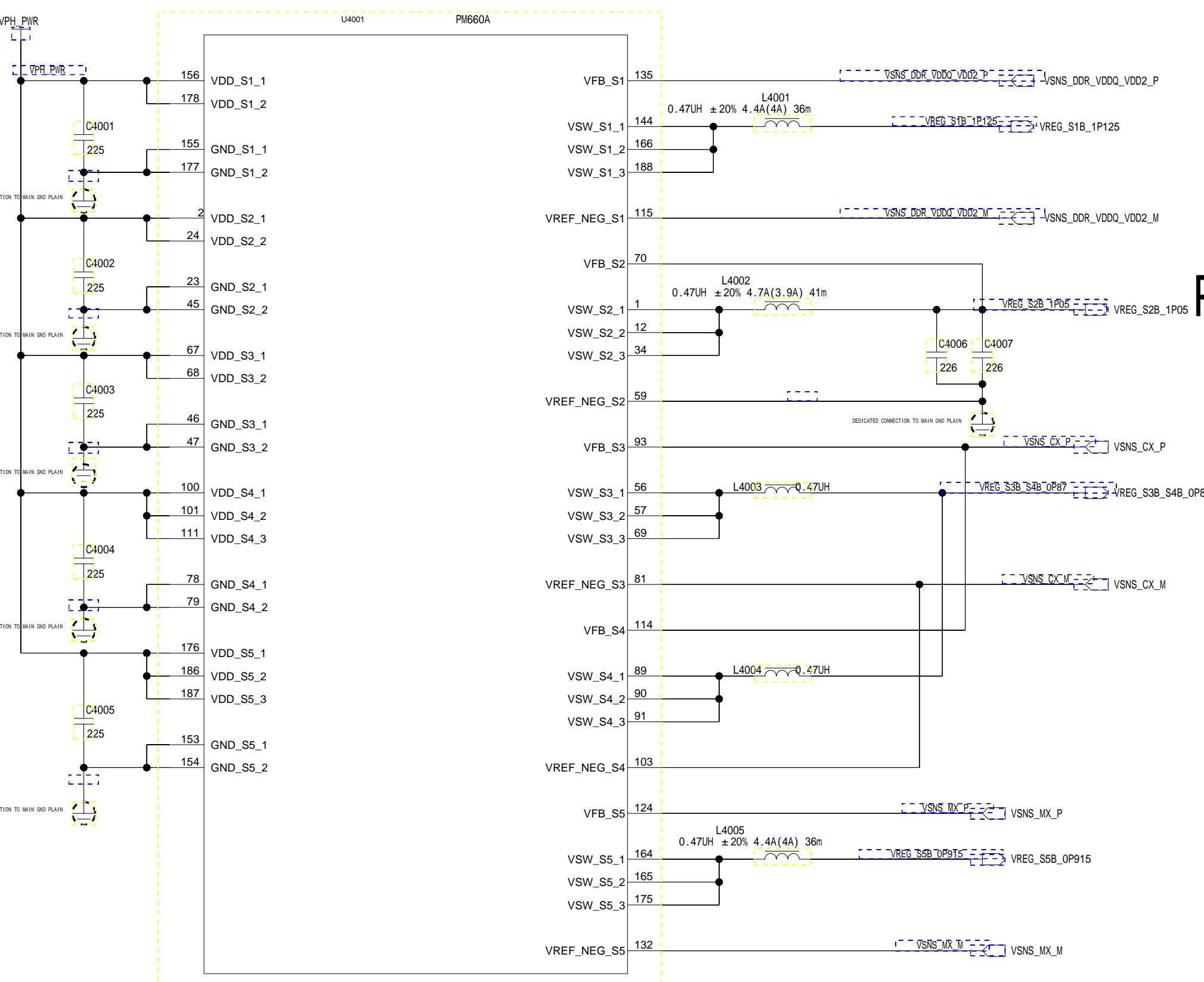
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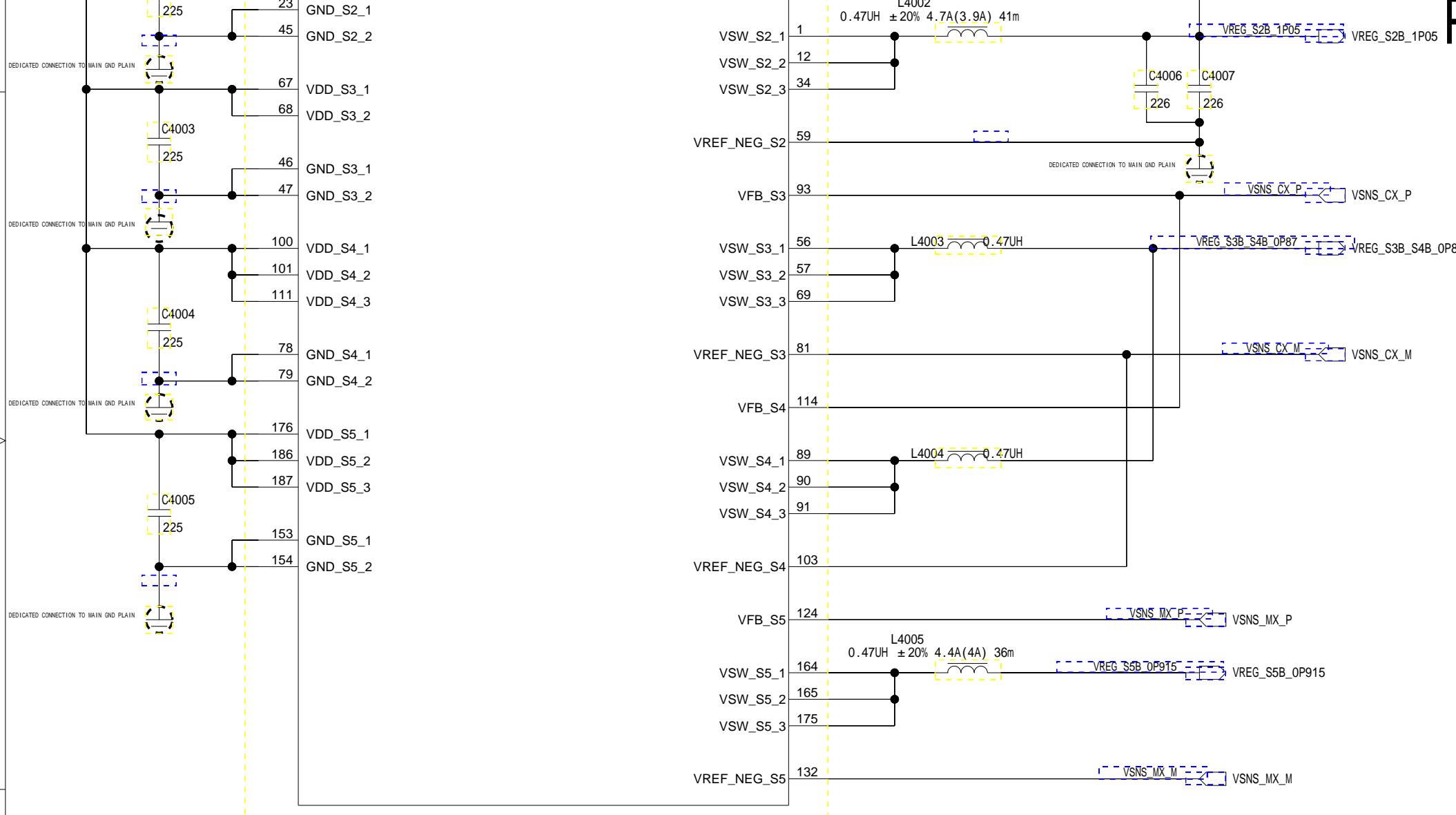
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PM660A_FT-SMPS

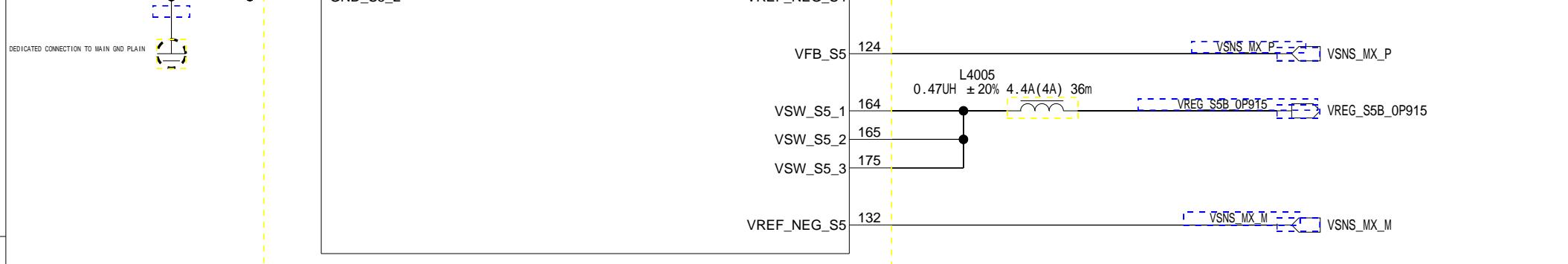
A



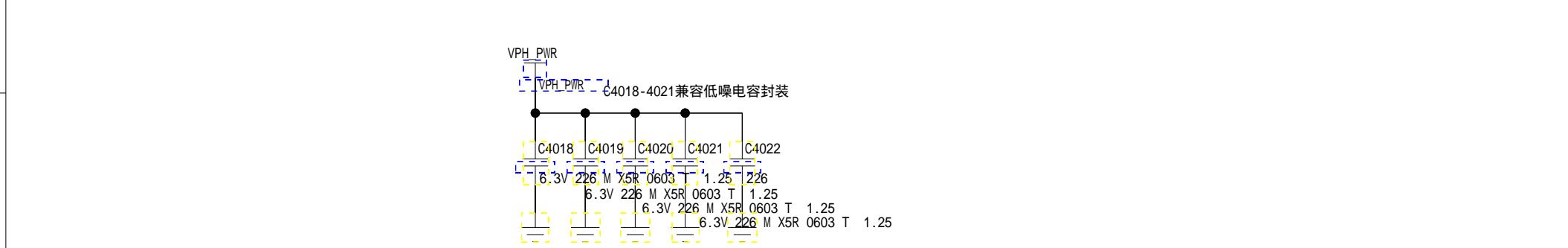
B



C

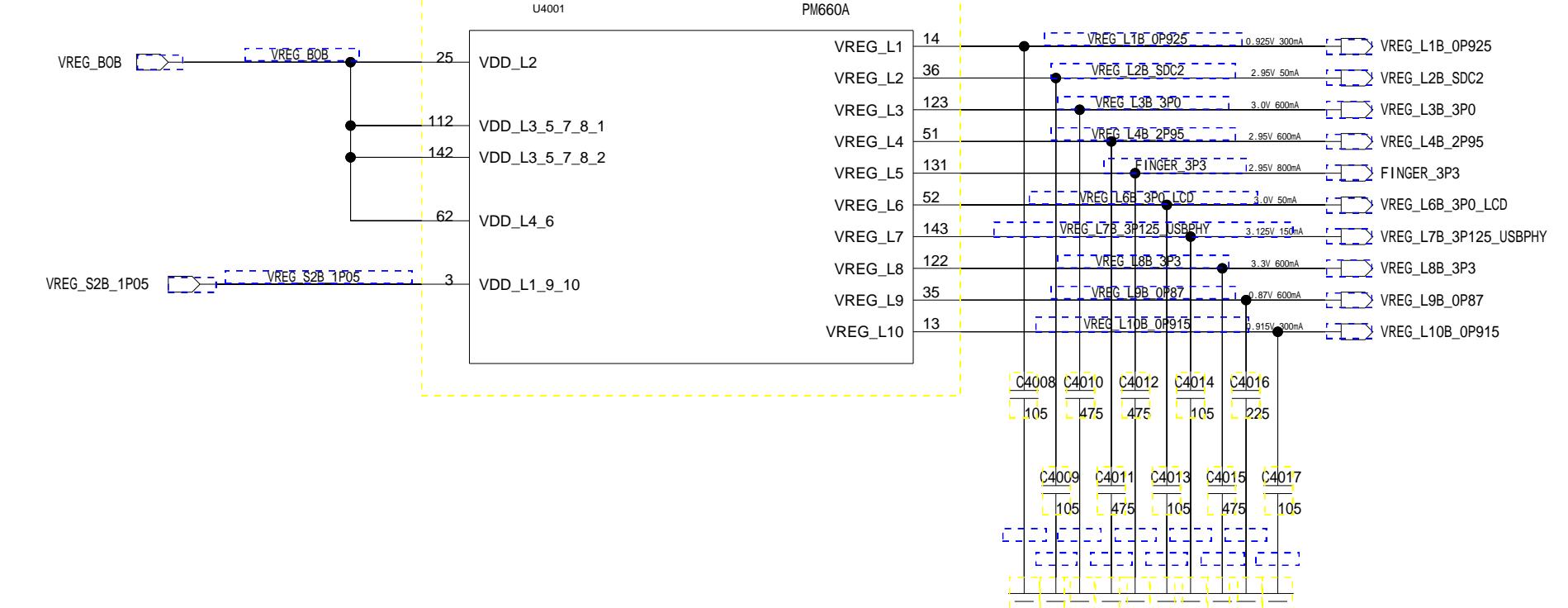


D



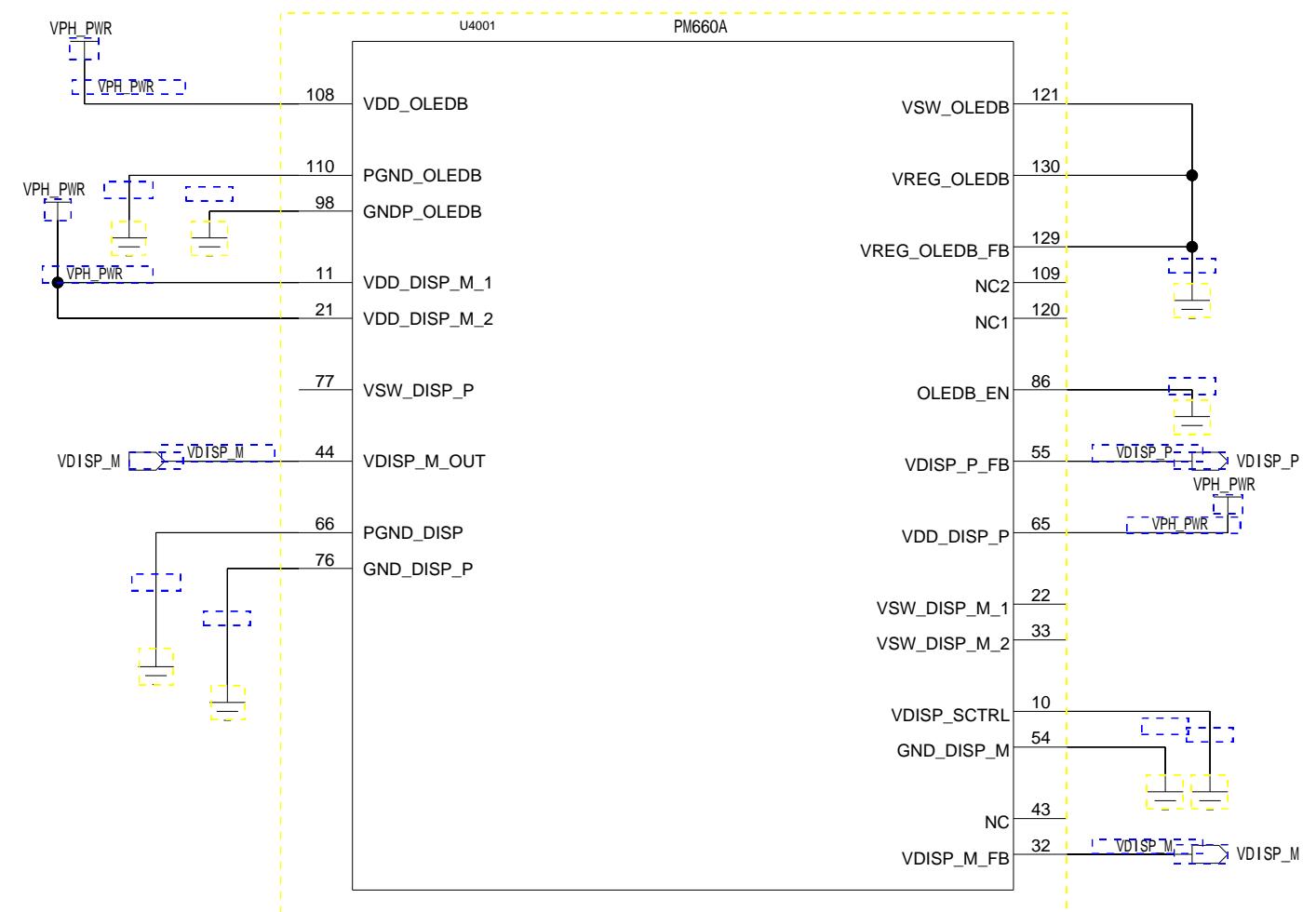
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PM660A_LDO

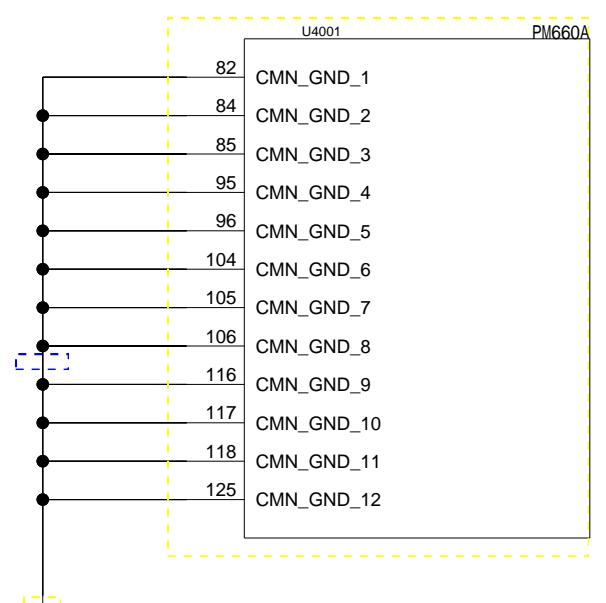


PM660A_Display_Driver

AMOLED driver in PM660A isn't used



PM660A_GND



F

PM660A_BOB_FLASH_LPG

A

B

C

PM660A_GPIO

D

E

F

PM660A Audio Codec

A

B

C

Logic Config

Power source	Default	GPIO availability
VDD_MSM_IO(VREG_L13A_1p8)	1.8V 10_2, GPIO_3, GPIO_4, GPIO_5, GPIO_8, GPIO_9, GPIO_11, GPIO_12 (LV)	
VPH_PWR	3.6V GPIO_1, GPIO_6, GPIO_7, GPIO_10 (HV)	

