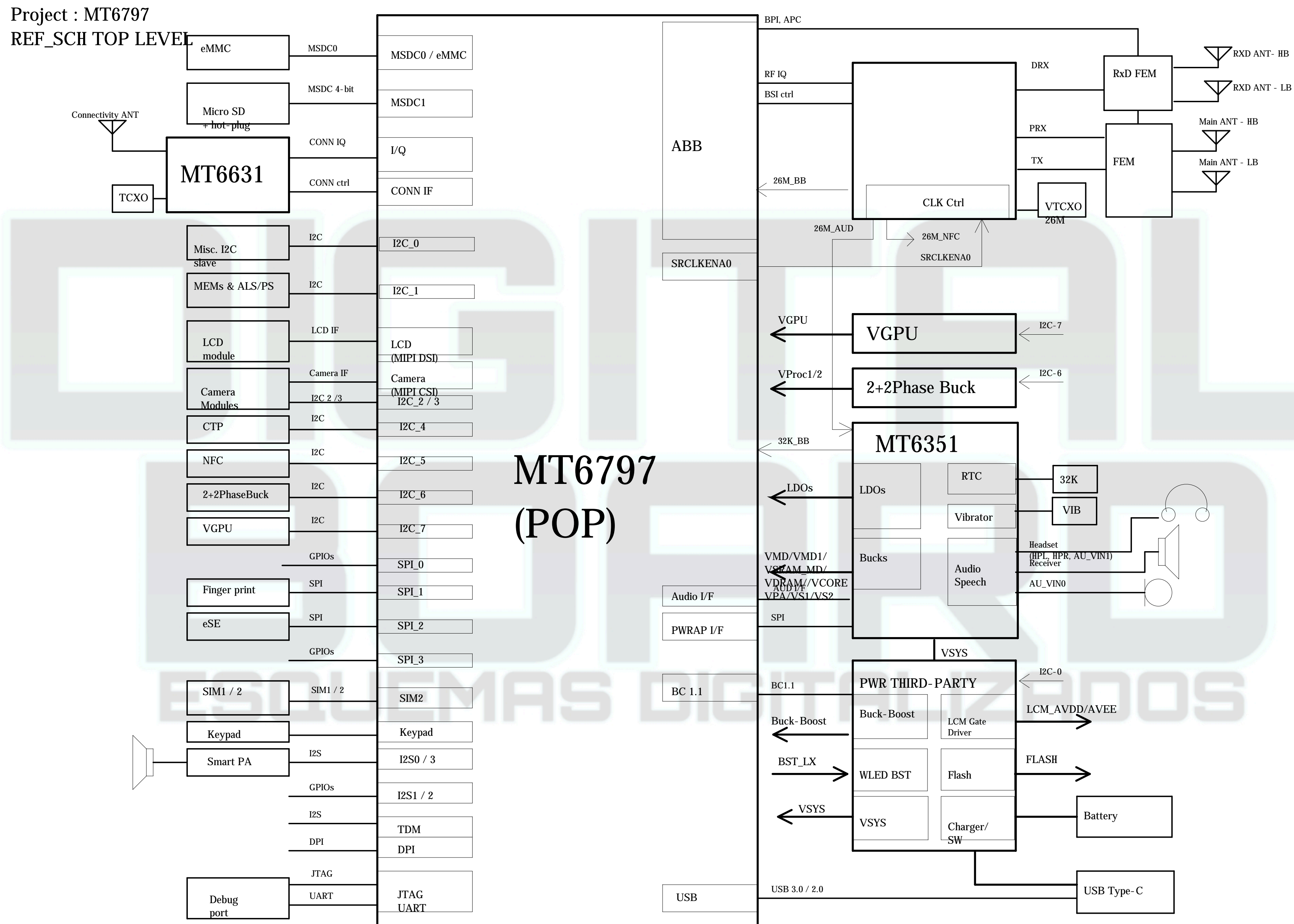


REVISION RECORD			
ITEM	ECO NO.	APPROVED	DATE



猎人电子图

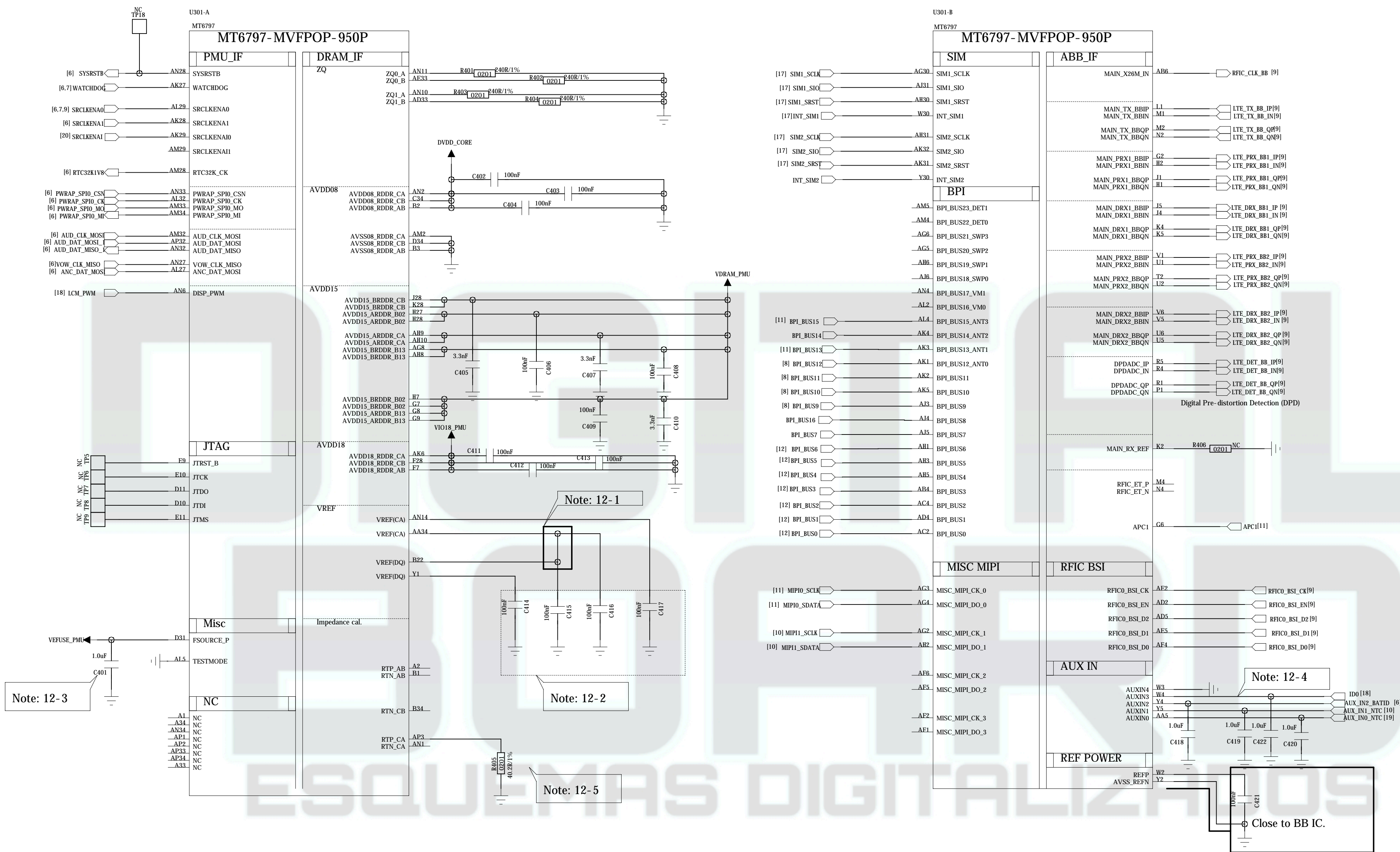
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				TITLE:			
				CX880			
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CHECKED: <Checked By>		DATE: <Checked Date>					
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REVISION RECORD			
ITR	ECO NO.	APPROVED	DATE

I2C	Function	I2C Spec. [1]	Budgeted Timing	I2C Slave Address (7- bit mode)
I2C-0 * [2]	SW charger	400 Kbps		bq25896 / SW charger I2C address: 0X6B (Write:0xD6, Read:0xD7)
	LCM Gate Driver	400 Kbps		NT50338 / LCM Gate Driver I2C address: 0X3E (Write:0x7C, Read:0x7D)
	Buck- boost	400 Kbps		FAN49101 / Buck- boost I2C address: 0X70 (Write:0xE0, Read:0xE1)
	Flash LED Driver	400 Kbps		LM3643 / Flash LED I2C address: 0X63 (Write:0xC6, Read:0xC7)
	Speaker Amp.	400 Kbps		MAX98928EWV-T / Speaker AMP I2C Address: 0x31 (Write:0x62, Read:0x63) when ADDR = GND. MAX98928EWV-T / Speaker AMP I2C Address: 0x34 (Write:0x68, Read:0x69) when ADDR = VIO18.
	USB Type- C CC	400 Kbps		FUSB302 / USB Type- C channel configure I2C Slave Address:0x22, write:0x44, read:0x45) or FUSB302 / USB Type- C channel configure I2C Slave Address:0x23, write:0x46, read:0x47)
	MHL	400 Kbps		SI8348 / CI2CA Low:MHL I2C Address =0x39/3D/4D/64/48/60.(Write:0x72/7A/9A/C8/92/C0, Read:0x73/7B/9B/C9/93/C1)
I2C-1 * [2]	M Sensor	400 Kbps		AK09912 / M- Sensor I2C Address 0x0C (Write: 0x18, Read: 0x19)
	A+Gyro Sensor	400 Kbps	Yes.	ICM- 20645 / A+Gyro I2C Address: 0x68 (Write:0xD0, Read:0xD1)
	Baro Sensor	400 Kbps		BMP280 / Baro I2C address: 0X77 (Write:0xEE, Read:0xEF)
	RGB / PS Sensor	400 Kbps		CM36558 / ALPS + UV I2C address: 0X51 (Write:0xA2, Read:0xA3)
	Humidity Sensor	400 Kbps		HTS221 / Humidity I2C address: 0X5F (Write:0xBE, Read:0xBF)
I2C- 2	Rear camera	400 Kbps	Yes.	OV23850 / Rear camera I2C address: 0X36 (Write:0x6C, Read:0x6D) if SID = low. OV23850 / Rear camera I2C address: 0X10 (Write:0x20, Read:0x21) if SID = high.
	Rear camera's AF	400 Kbps		LC898212XD- SH / AF driver I2C address: 0X72 (Write:0xE4 Read:0xE5)
I2C- 3	2nd front camera	400 Kbps	Yes.	S5K5E2 / Rear camera I2C address: 0X10 (Write:0x20, Read:0x21); It can be changed by register[7:1] of addr:0x0107.
	Front camera	400 Kbps	Yes.	S5K3M2XXM3 / Front camera I2C address:0X2D (Write:0x5A, Read:0x5B);
	Front camera's AF	400 Kbps	Yes.	DW9714A / AF driver I2C address: 0X0C (Write:0x18, Read:0x19)
I2C- 4	CTP	400 Kbps	Yes.	GT1511 / CTP I2C address: 0X5D (Write:0xBA, Read:0xBB) or 0X14 (Write:0x28, Read:0x29)
I2C- 5	NFC	1.3 Mbps	Yes.	MT6605 / NFC I2C address: 0X28 (Write:0x50, Read:0x51)
I2C- 6	VPROC buck	3.4 Mbps	Yes.	MT6313 / 2+2Phase Buck I2C address: 0X6B (Write:0xD6, Read:0xD7)
I2C- 7	VGPU Buck	3.4 Mbps	Yes.	FAN53555 / Buck I2C address: 0X60 (Write:0xC0, Read:0xC1)
Note 1: I2C Spec. : Standard mode (100 kbps) and Fast mode (400 kbps), Fast mode Plus (1 Mbps) and High- speed mode (3.4 Mbps)				
Note 2: For MEMS sensor/sensor hub application, these I2C slave devices must be connected to I2C0 or I2C-1.				

				COMPANY				LC			
				TITLE:				CX880			
DRAWN: <Drawn By>		DATE: <Drawn Date>									
CHECKED: <Checked By>		DATE: <Checked Date>									
QUALITY CONTROL: <QC By>		DATE: <QC Date>		<Code>		SIZE: A0		DRAWING NO: <Drawing Number>		REV: <Revision>	
RELEASED: <Released By>		DATE: <Release Date>									
				SCALE: <Scale>				SHEET 89 OF 20			

REVISION RECORD			
DATE	DESCRIPTION	APPROVED	DATE



Schematic design notice of "11_BB_11" page.

Note 12-1: The DRAM's VREF(CA)(AA34 ball) must connect to VREF(DQ)(B22 ball).

Note 12-2: The de-coupling cap. of DRAM VREF have to be placed as close to BB as possible.

Note 12-3: Apply 1.8V to FSOURCE_P (D31) for eFuse programming.

Note 12-4: To shunt a 1uF capacitor in the AUXIN ADC input to prevent noise coupling. It should be placed as close to BB as possible. Connect the unused AUX ADC input to GND.

Note 12-5: For impedance calibration of DDRPHY

COMPANY: LC

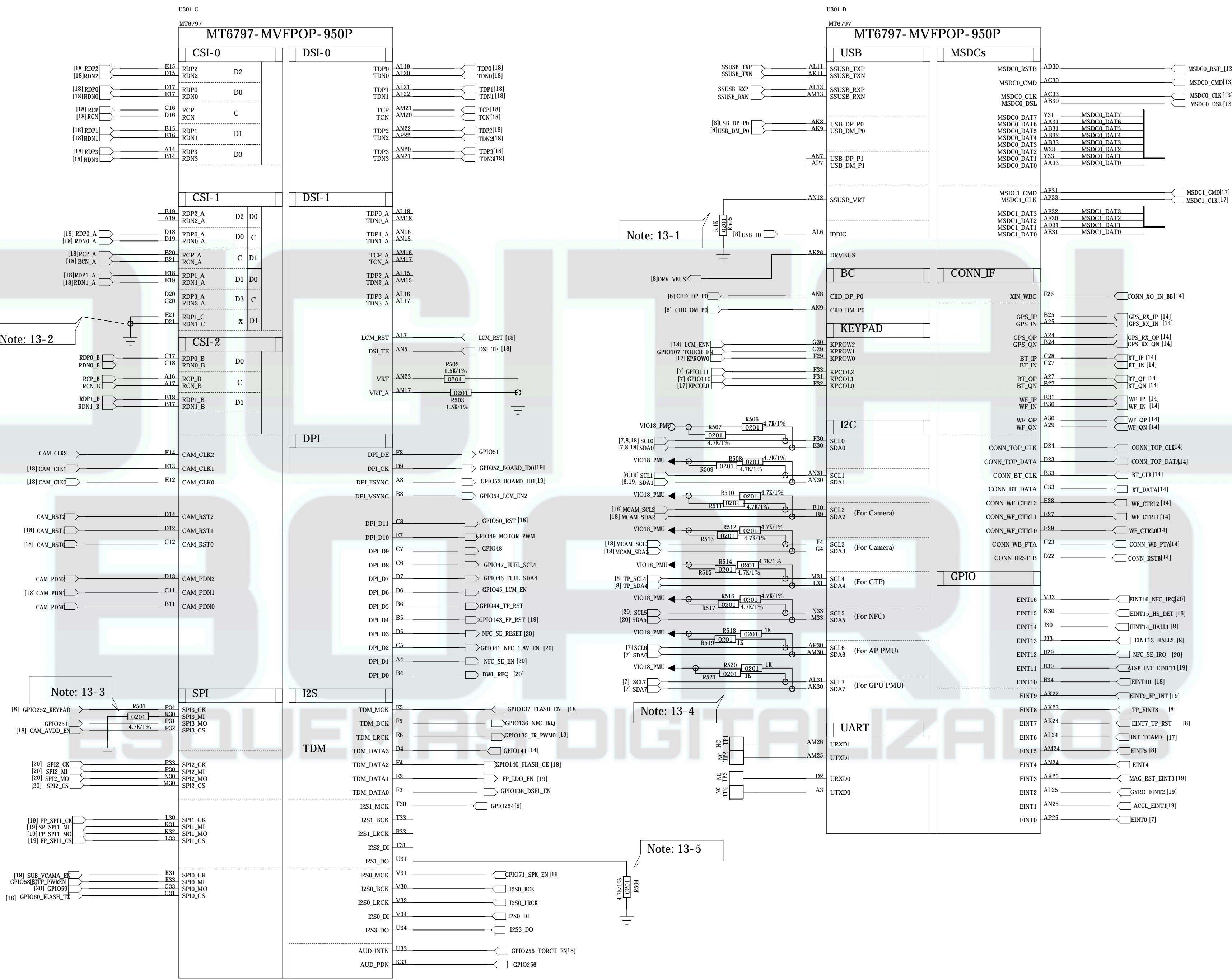
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RELEASED	<Released By>	DATE	<Release Date>

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<Code>	A0	<Drawing Number>	<Revision>

SCALE	<Scale>	SHEET	20
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REVISION RECORD			
LTR	REV NO	APPROVED	DATE



Schematic design notice of "12_BB_2" page.

Note 13-1: Default resistor of "SSUSB_VRT" can be NC if internal USB VRT is applied.

Note 13-2: Connect the the NC pins of CSI to GND

Note 13-3: The GPIO250 can't have external pull-up. 'C2K DROP_ZONE' output indicator is not allow to have external pull-up.

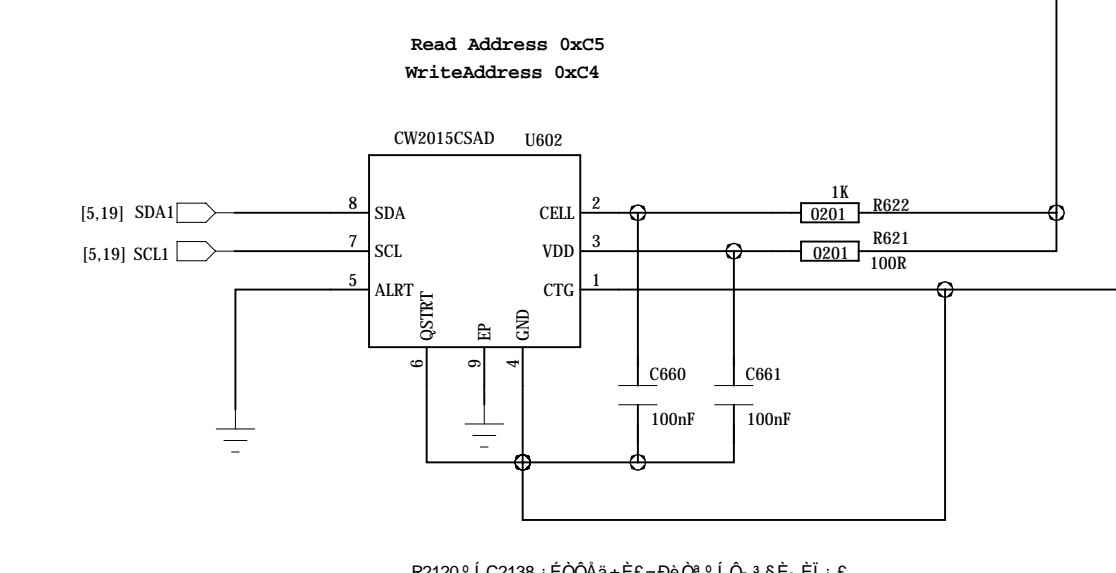
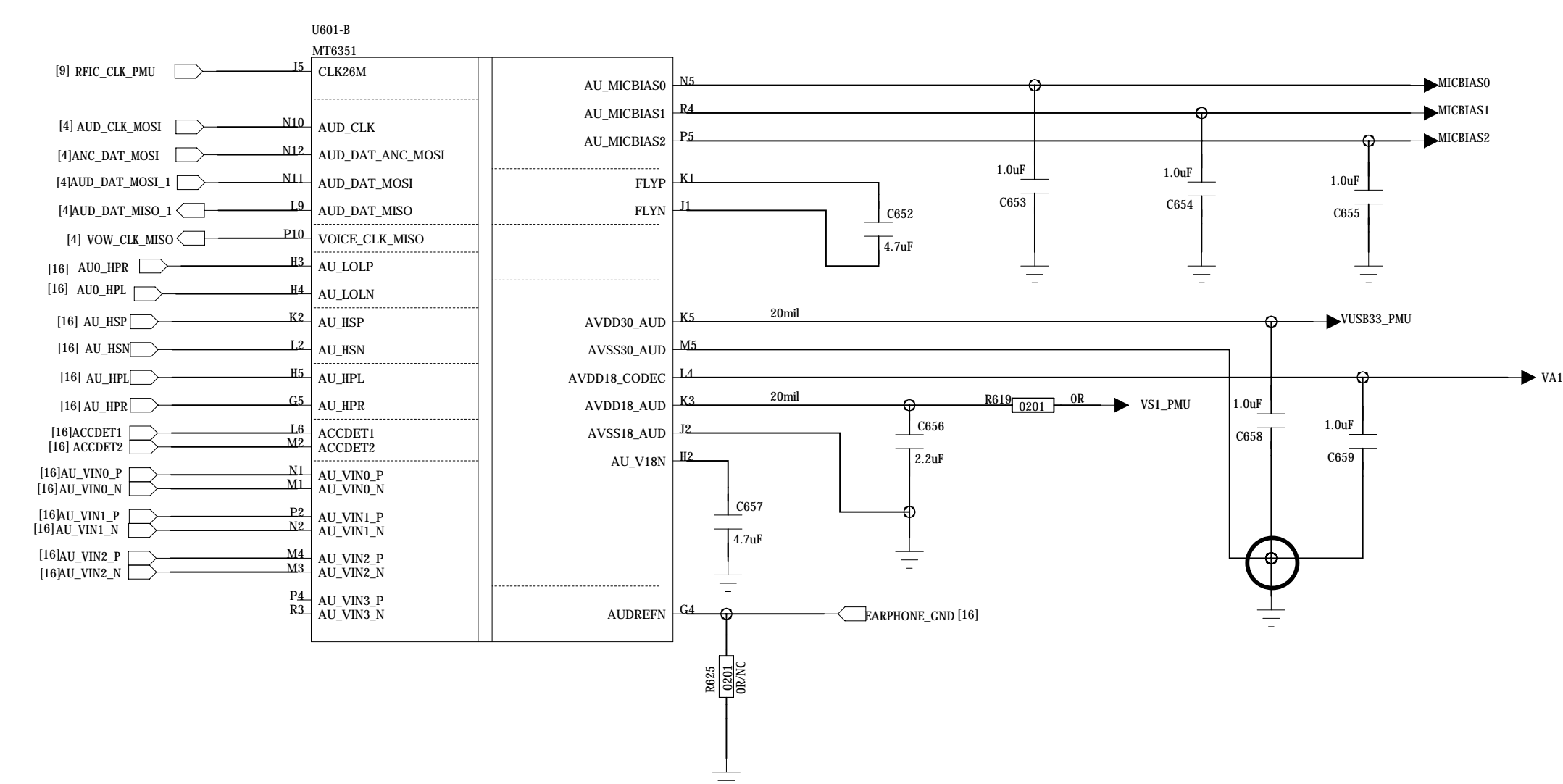
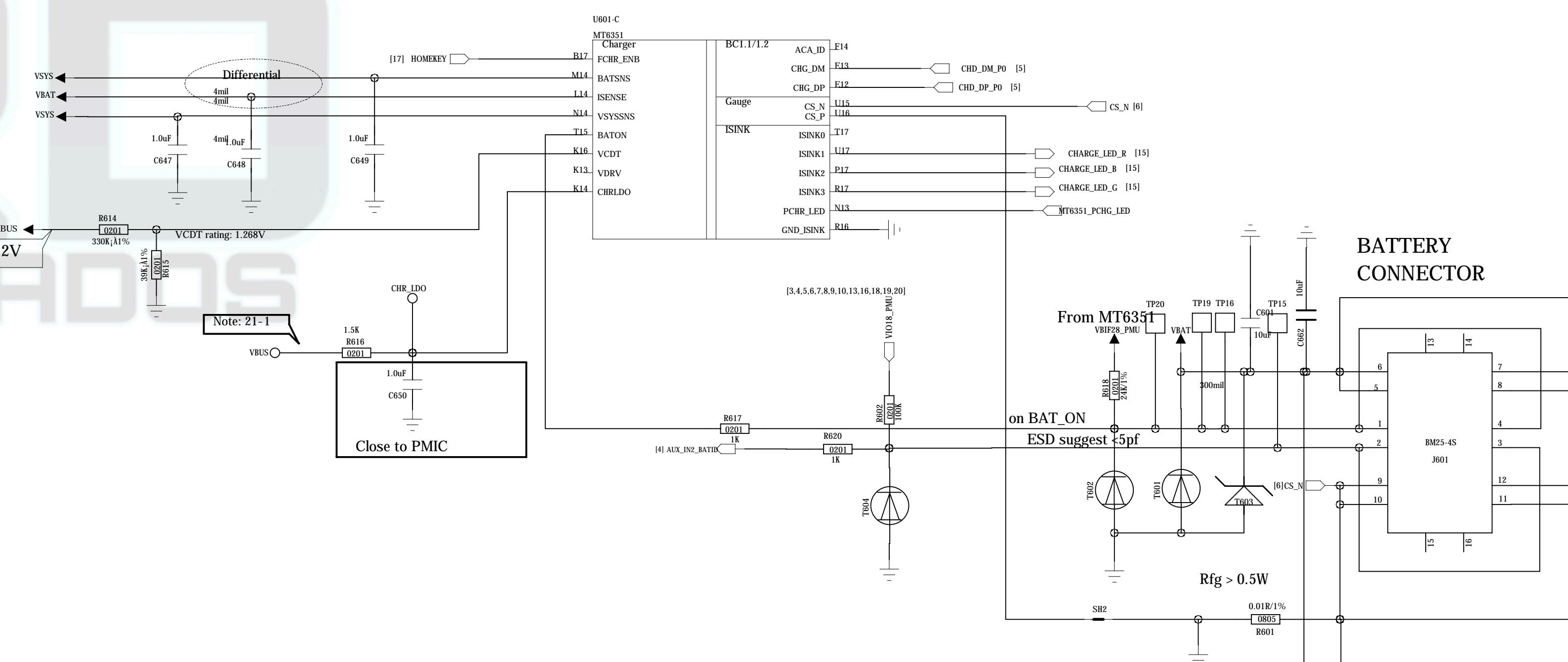
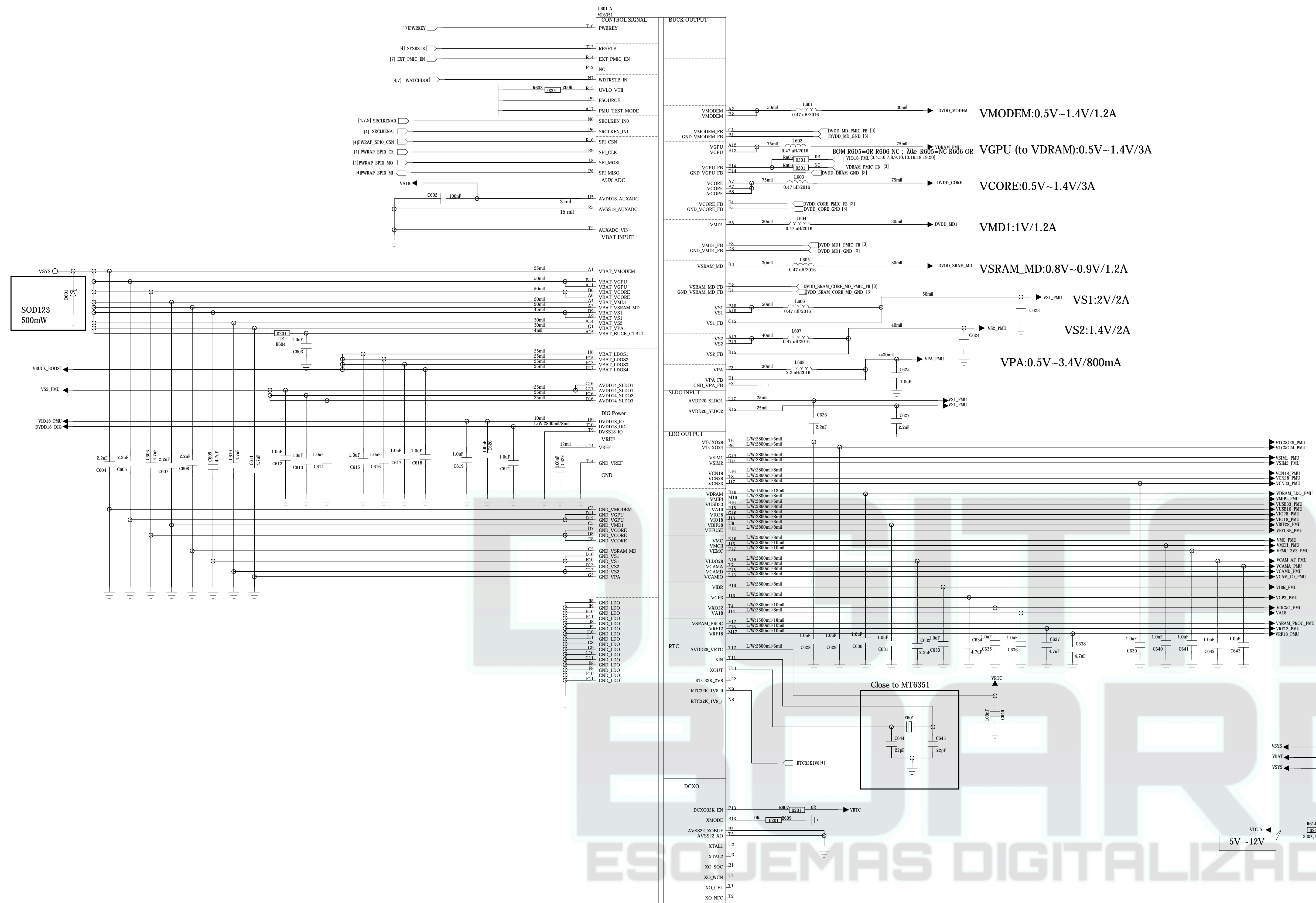
Note 13-4: The I/O type of I2C6/7 is push-pull; External pull-up is required if I2C6/7 slave devices can only support open-drain.

Note 13-5: The GPIO249 features I/O trap in system bootup that must be pulled down.

COMPANY: LC

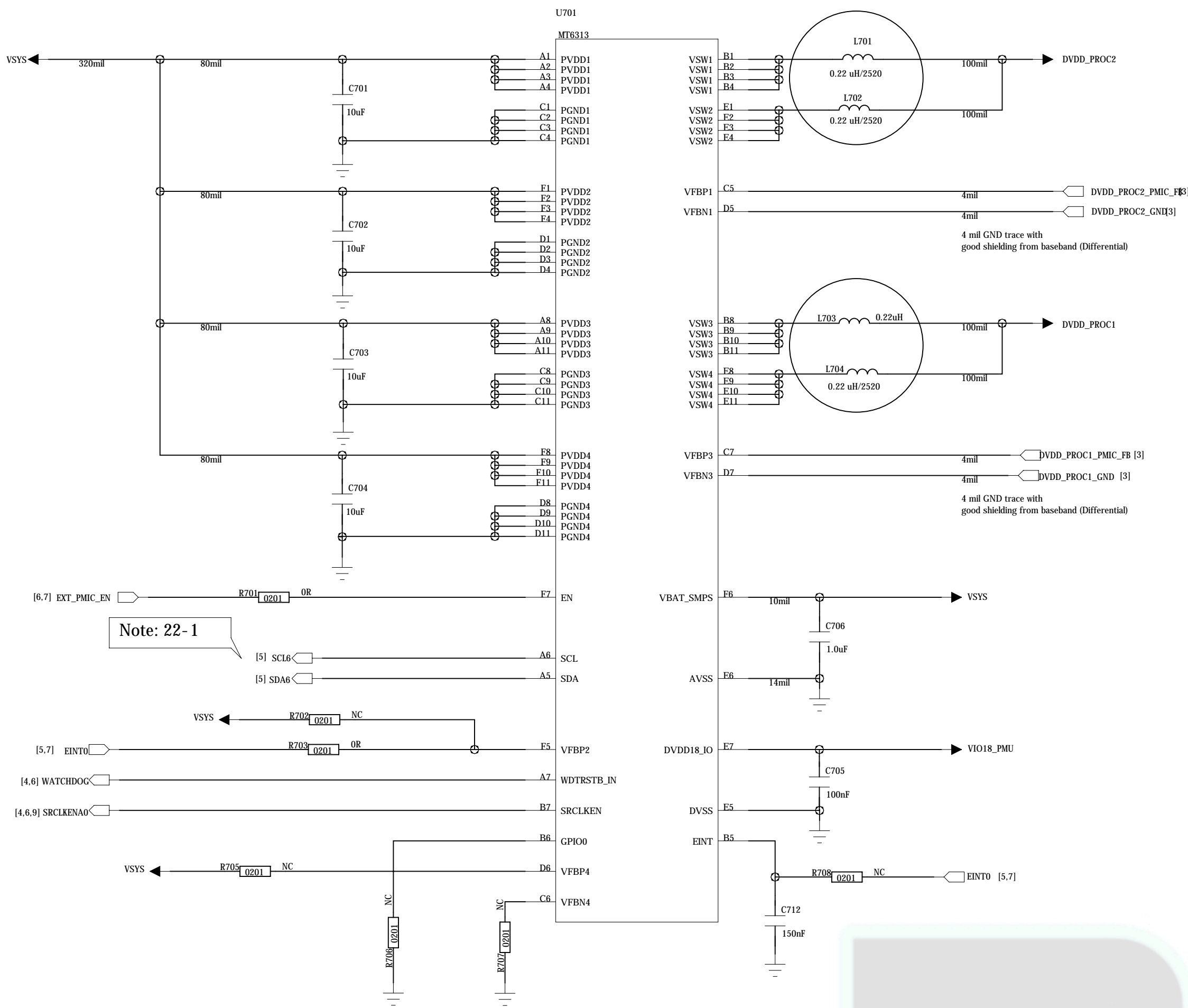
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REVISION RECORD			
CTR	REV NO.	APPROVED	DATE

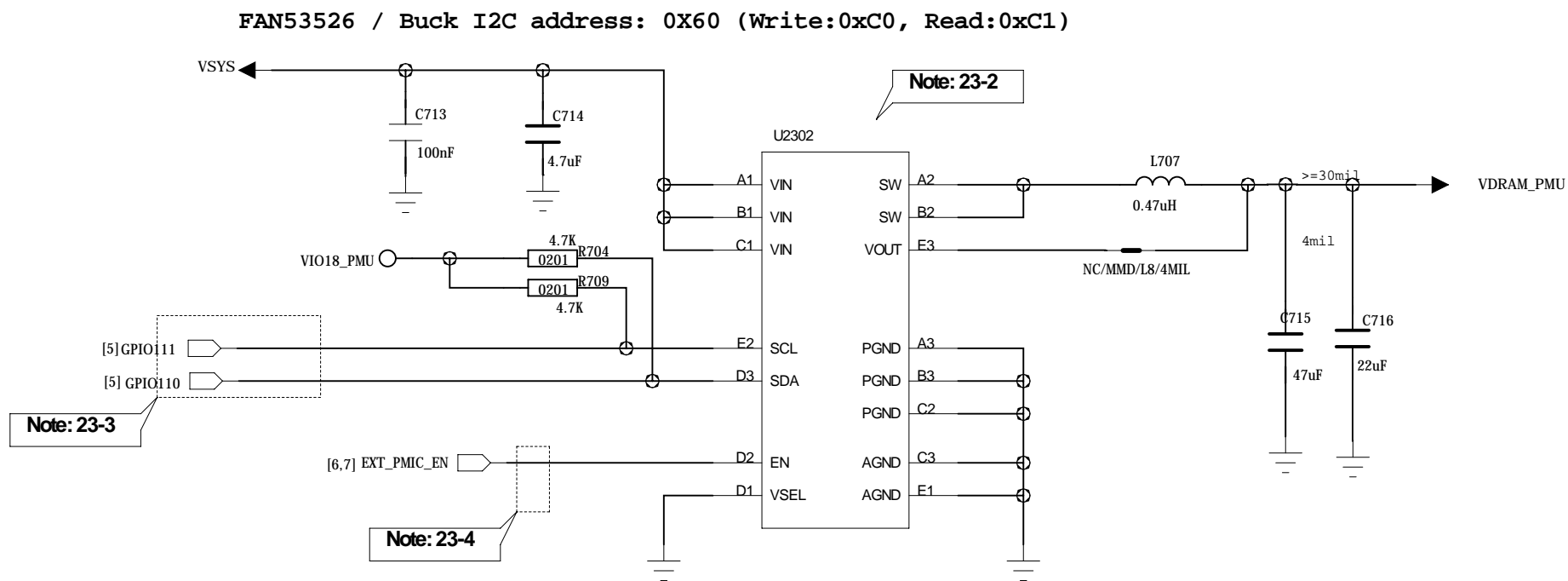
VPROC Buck



Schematic design notice of "22_POWER_2+2PHASE_BUCK" page.

Note 22-1: Buck EN is controlled by SRCLKEN0 or I2C

Buck for VDRAM



Schematic design notice of "23_POWER_VGPU_VM" page.

Note 23-2: BOM option to select MT6351's VGPU or 3rd party PMIC as VDRAM (1.2V) power.

	U2302	PL2302	C2303	C2304	R2301	R2302
MT6351's VGPU as VDRAM	NC / DNI	NC / DNI	NC / DNI	NC / DNI	NC / DNI	NC / DNI
3rd party PMIC as VDRAM	FAN53526	0.47uF	0.1uF	4.7uF	4.7K	4.7K

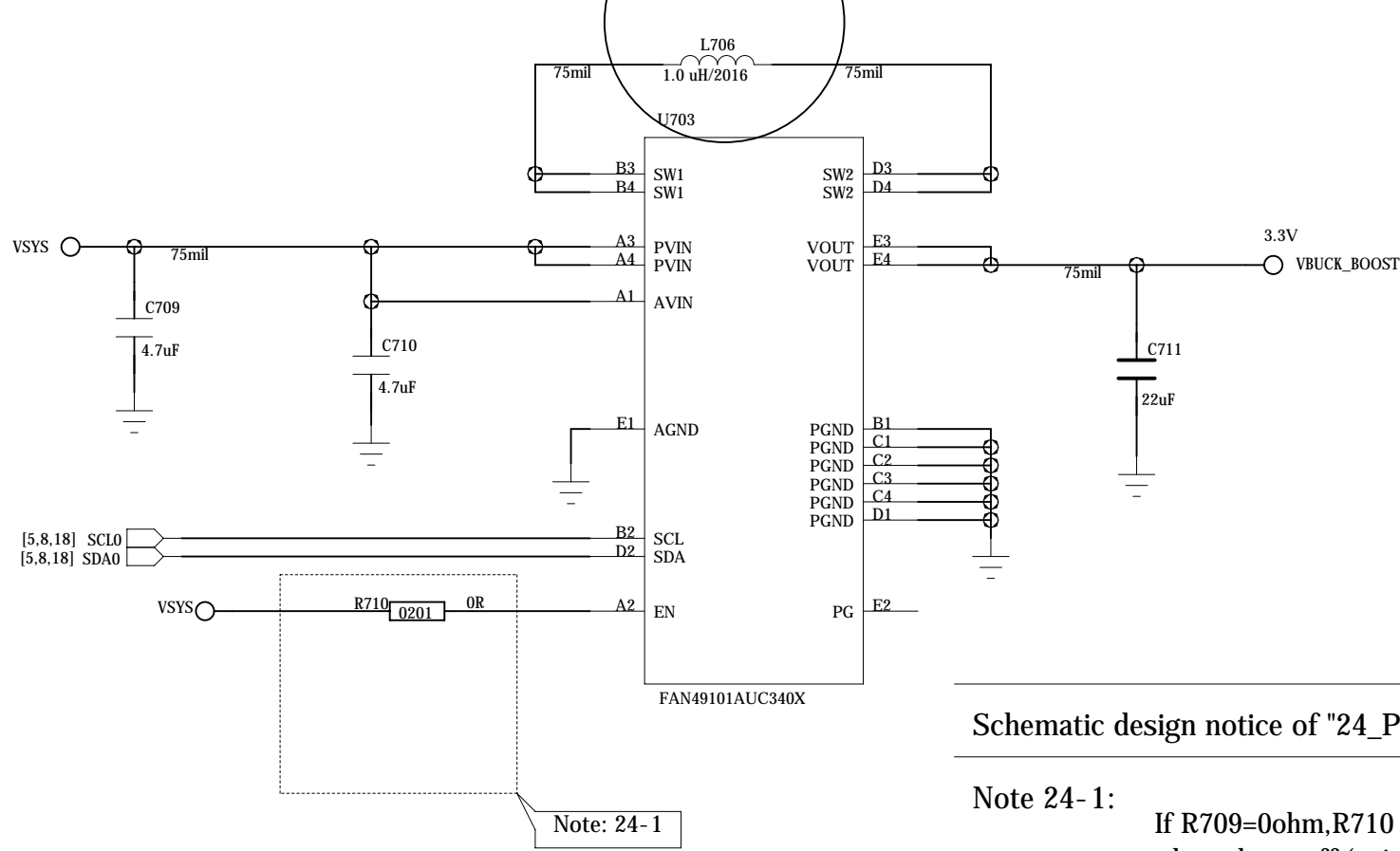
Note: NC / DNI = No connect / Do not install.

Note 23-3: Use pin muxed I2C-1 to control FAN53526 since its I2C base address is 0x60 same as VGPU and MHL.

Note 23-4: FAN53526's EN pin is driven by MT6351.

Companion Buck/Boost

FAN49101 / Buck-boost I2C address: 0X70 (Write:0xE0, Read:0xE1)

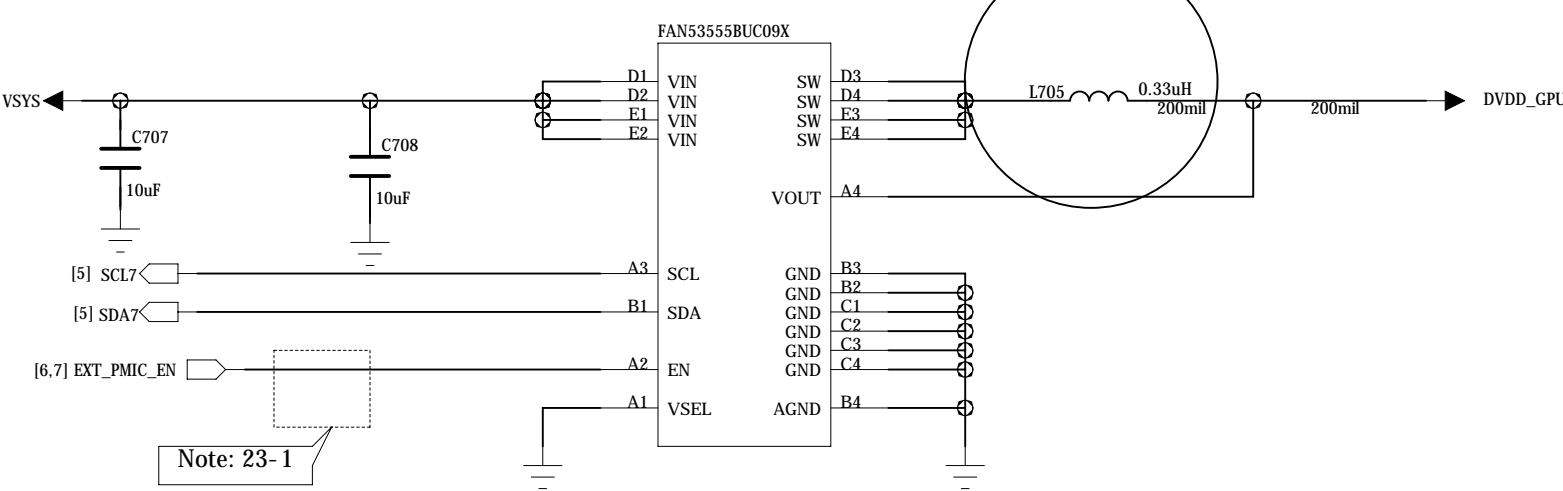


Schematic design notice of "24_POWER_THIRD-PARTY" page.

Note 24-1: If R709=0ohm,R710 NC,R5109=0ohm: MT6905 can't support card mode function when phone off (quick boot disable)
If R709=NC,R710=0ohm,R5109=0ohm: MT6905 can support card mode function when phone off(quick boot disable)

2-Phase Buck

FAN53555 / Buck I2C address: 0X60 (Write:0xC0, Read:0xC1)

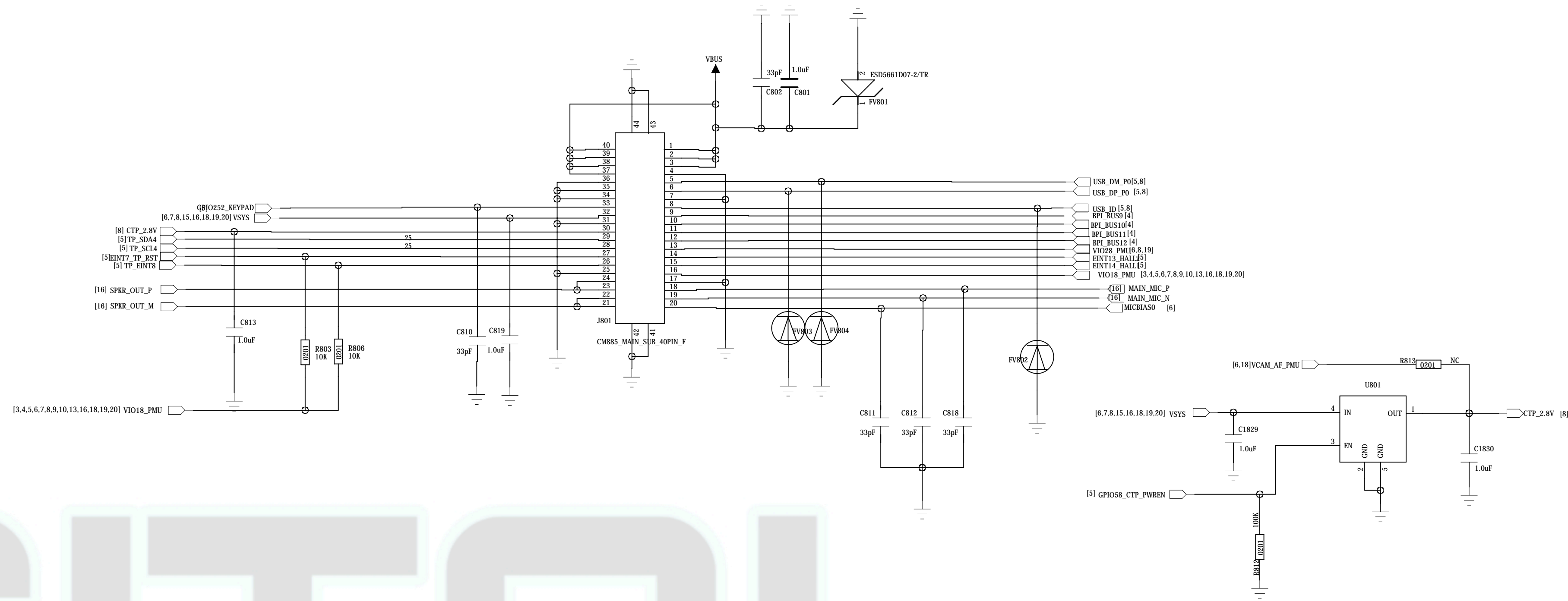
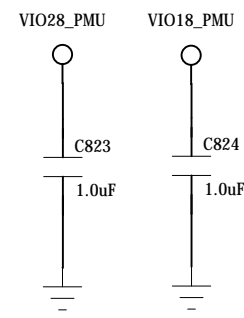
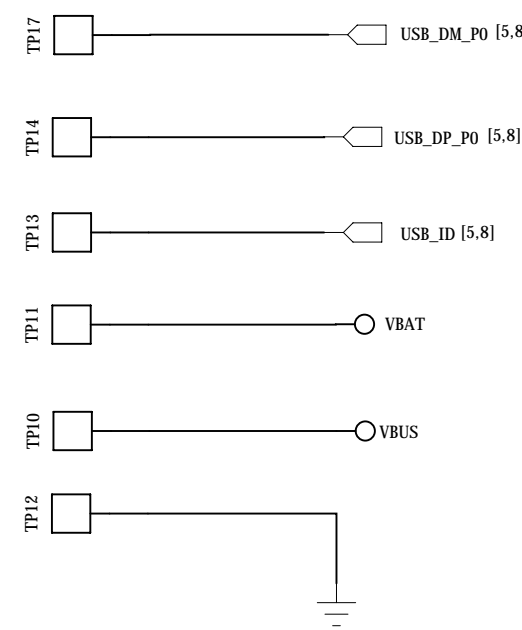


Schematic design notice of "23_POWER_VGPU" page.

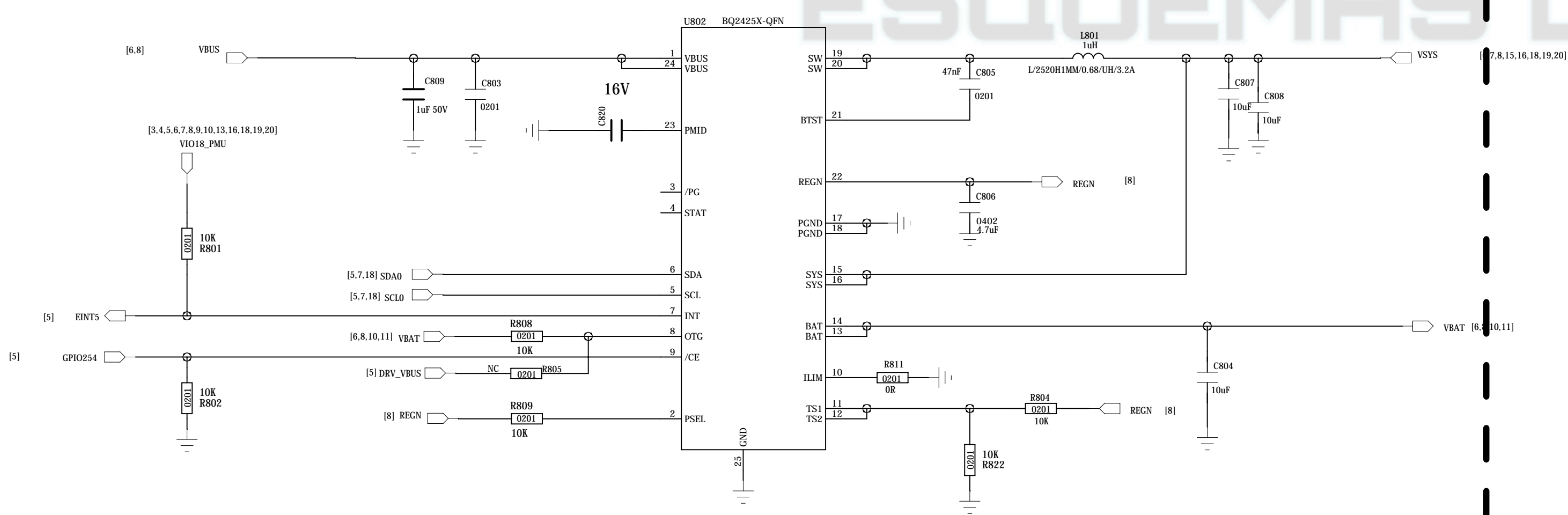
Note 23-1: FAN53555's EN pin is driven by MT6351.

COMPANY: LC			
TITLE: 20_POWER_MT6328			
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REVISION RECORD			
LT#	ECO NO.	APPROVED	DATE



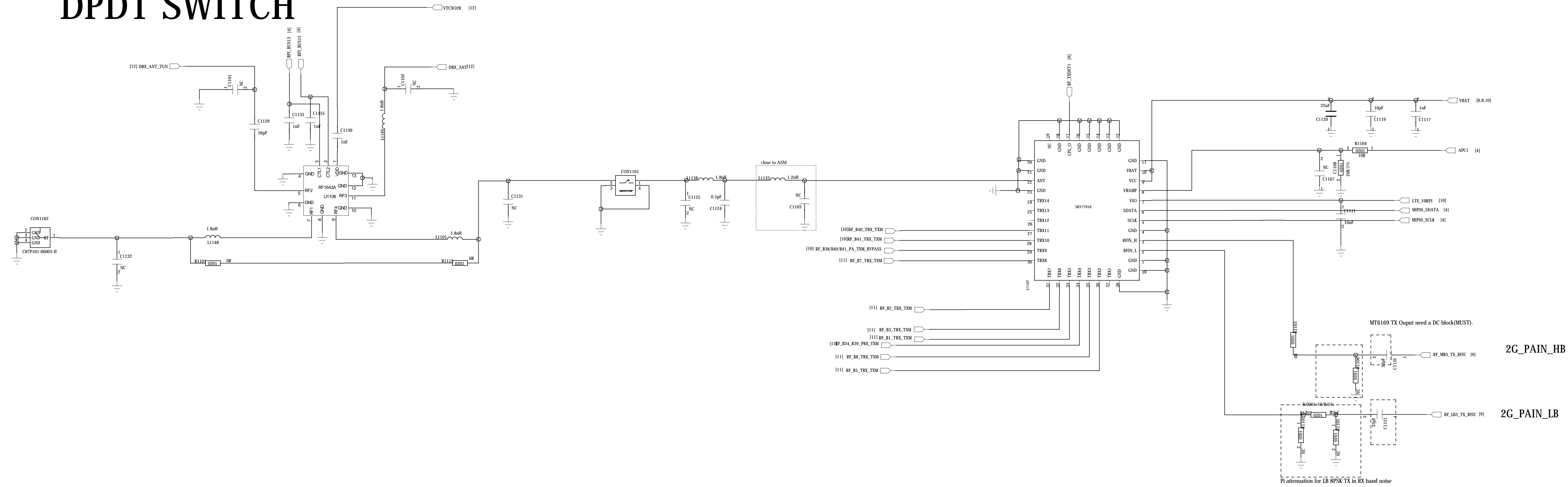
SW Charger / Power Path



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CHECKED: <Checked By>	DATE: <Checked Date>				
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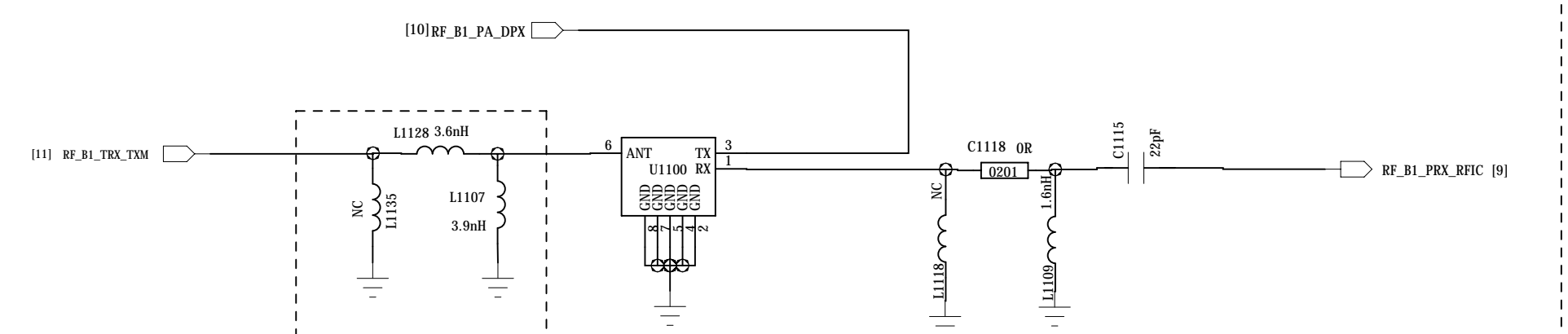
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DPDT SWITCH



B1 TRX

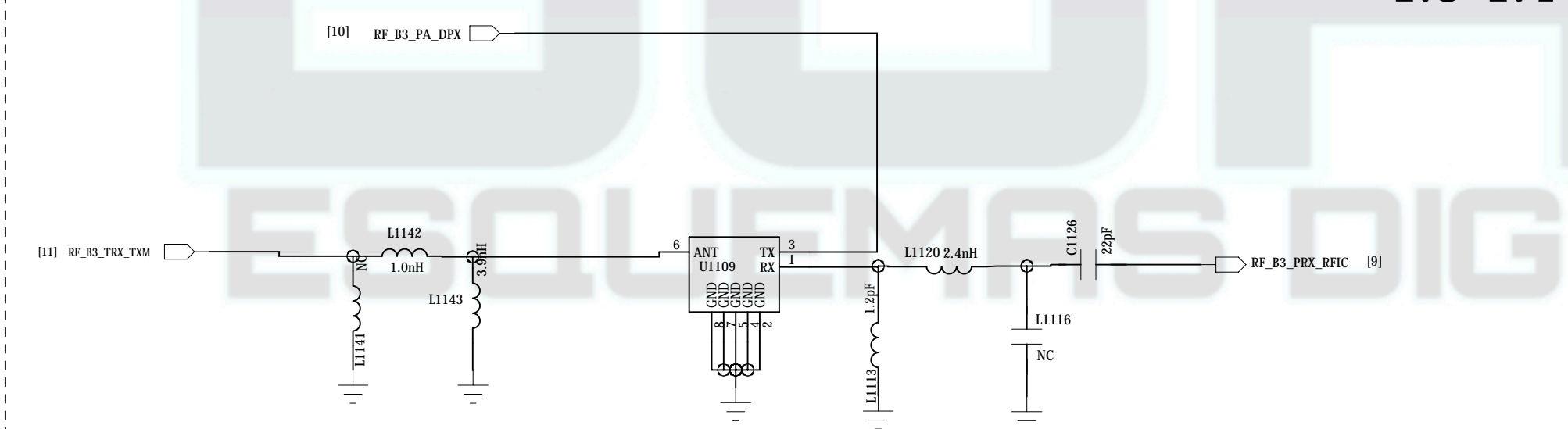
no CA by xiaozhanglong



no CA new 20160413

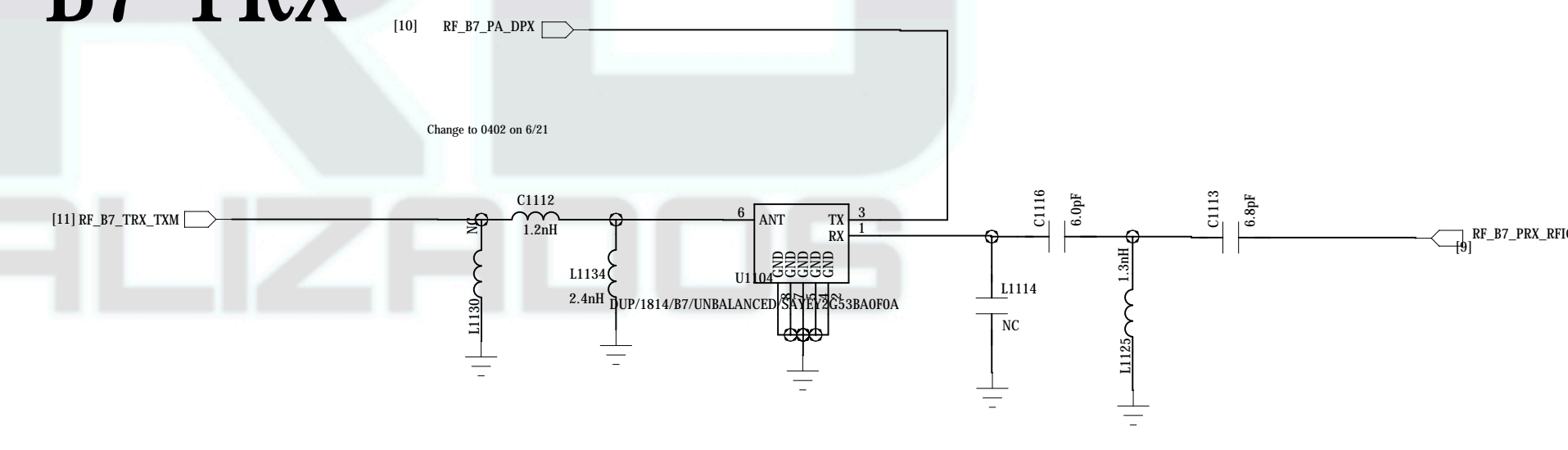
B3 TRX

no CA by xiaozhanglong

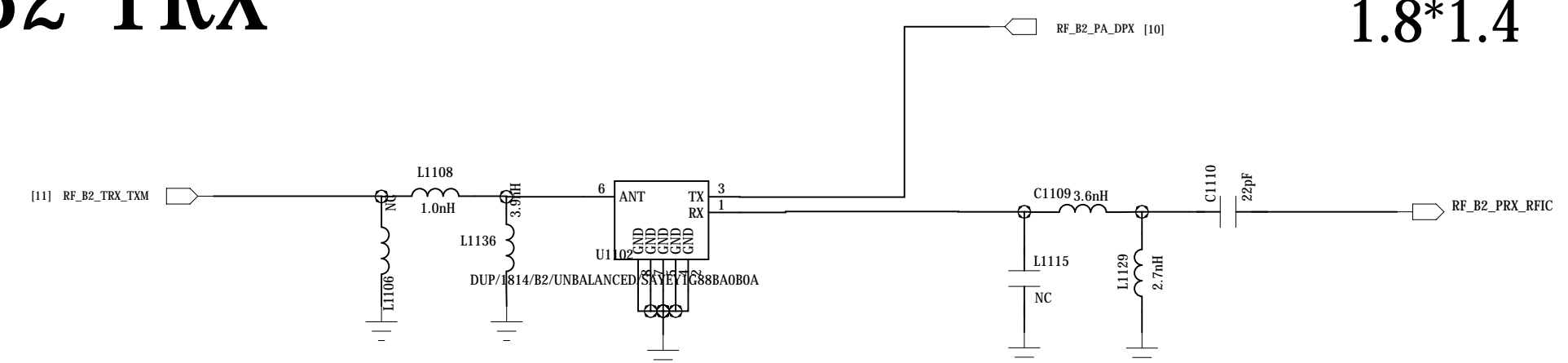
 1.8×1.4 

B7 TRX

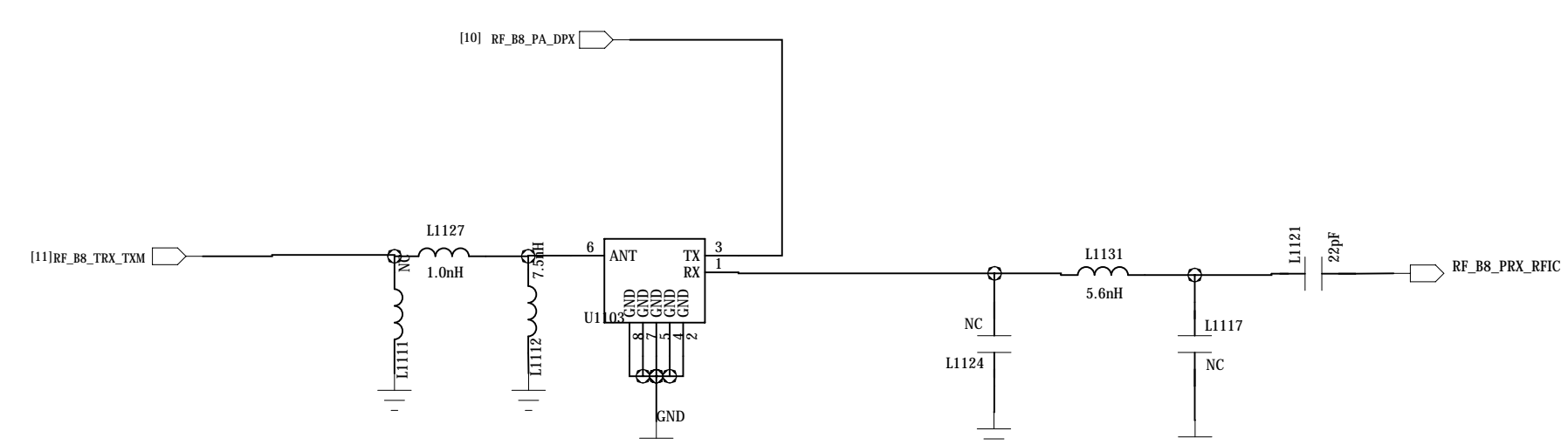
Change to E



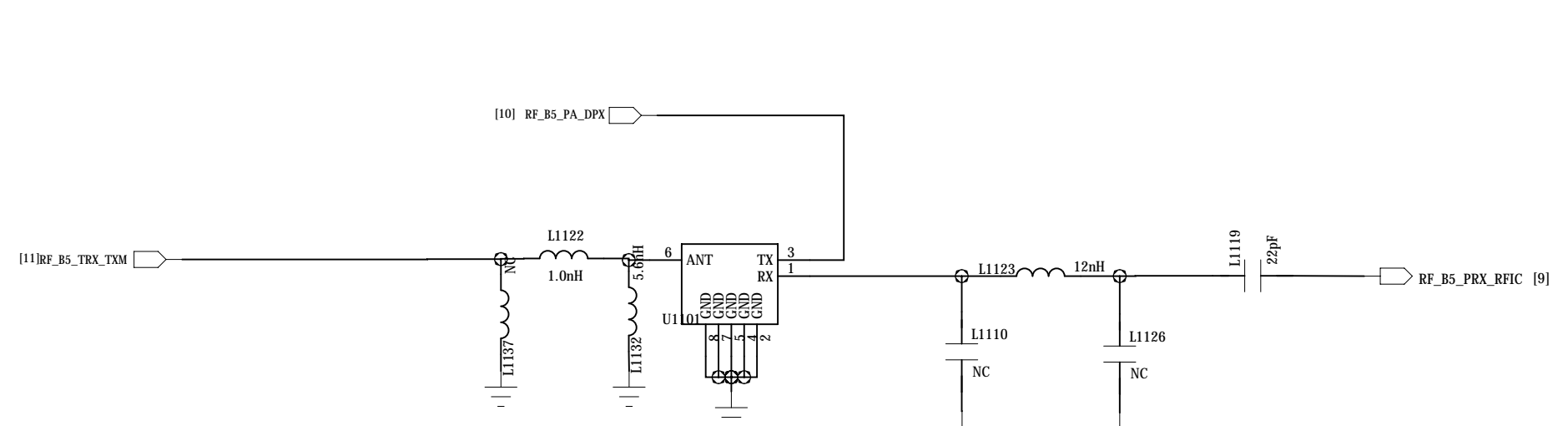
B2 TRX

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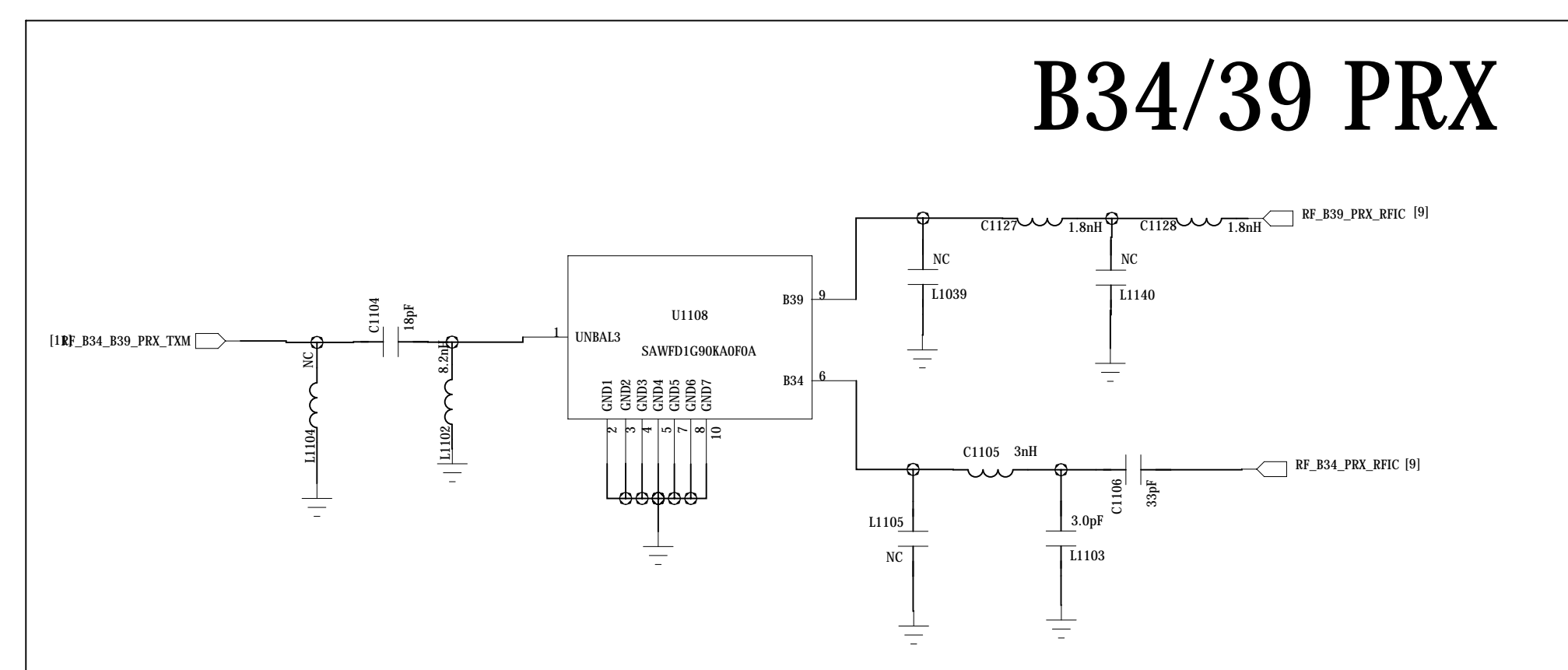
B8 TRX

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B5 TRX

 1.8×1.4 

B34/39 PRX

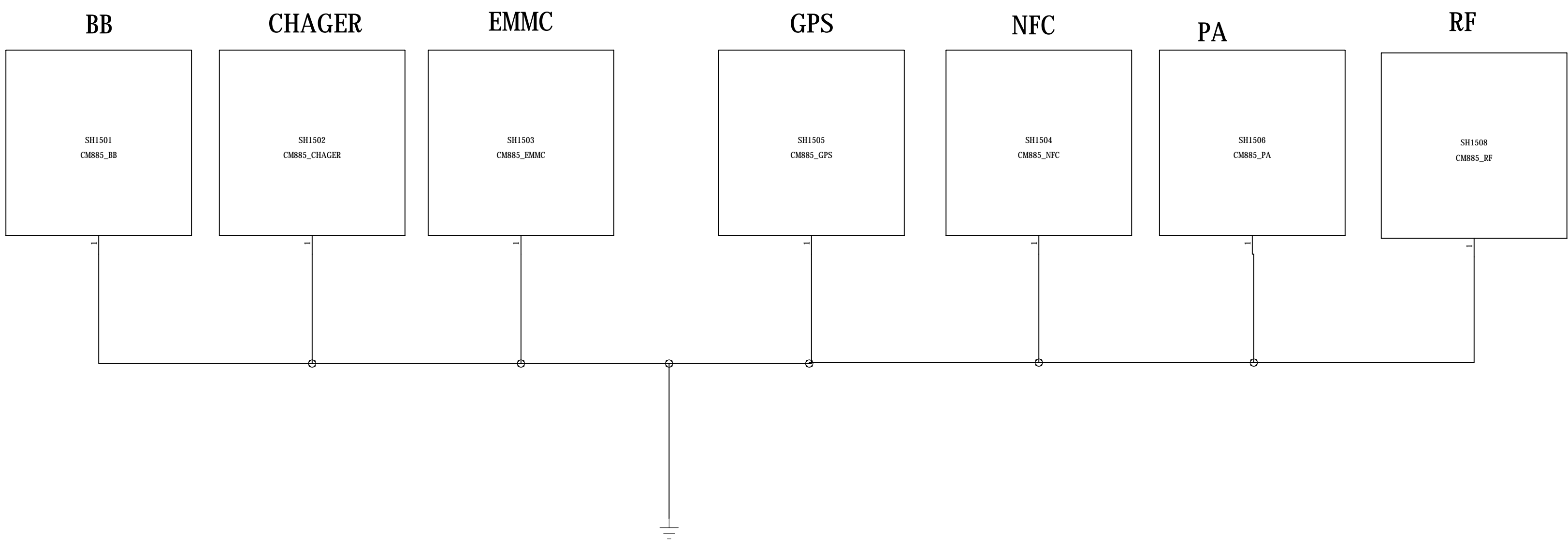
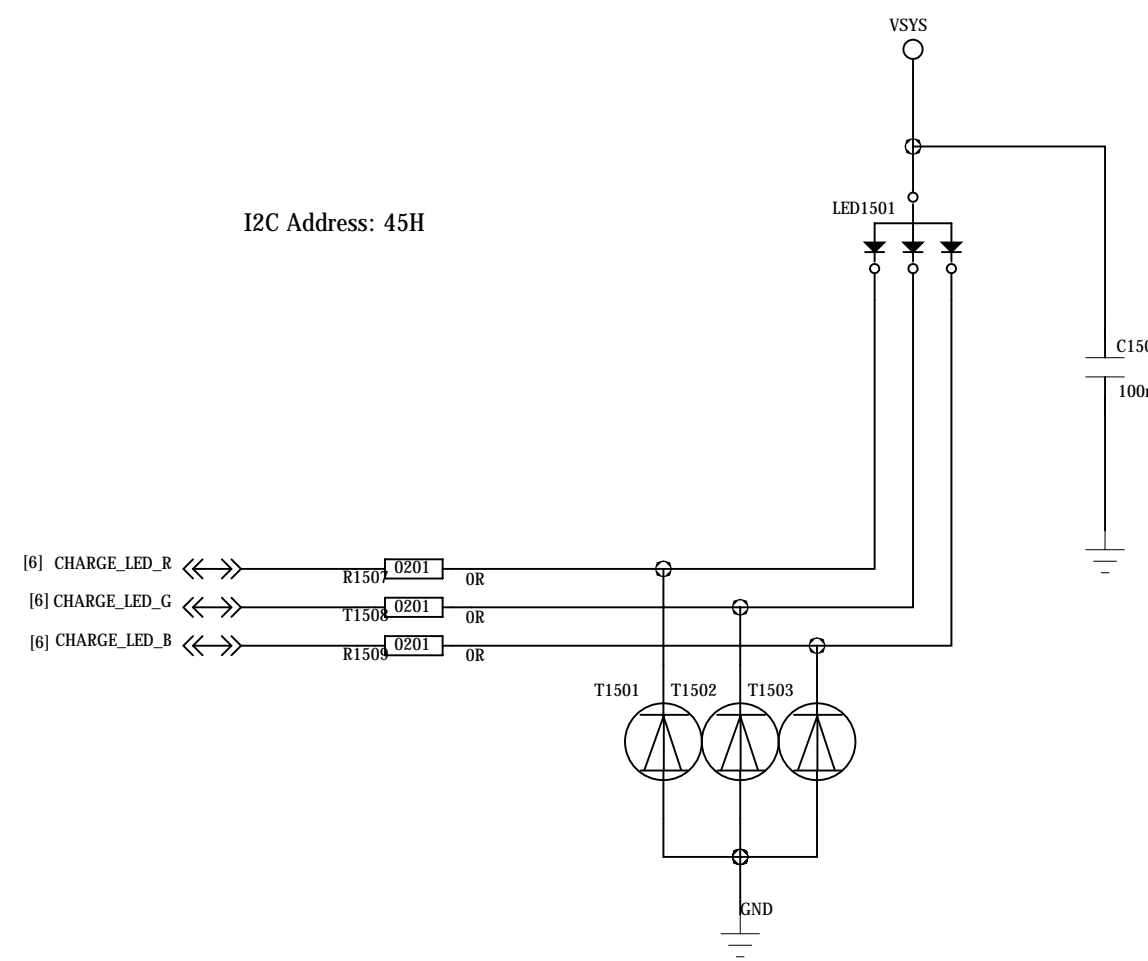


NO CA by xiaozhanglong

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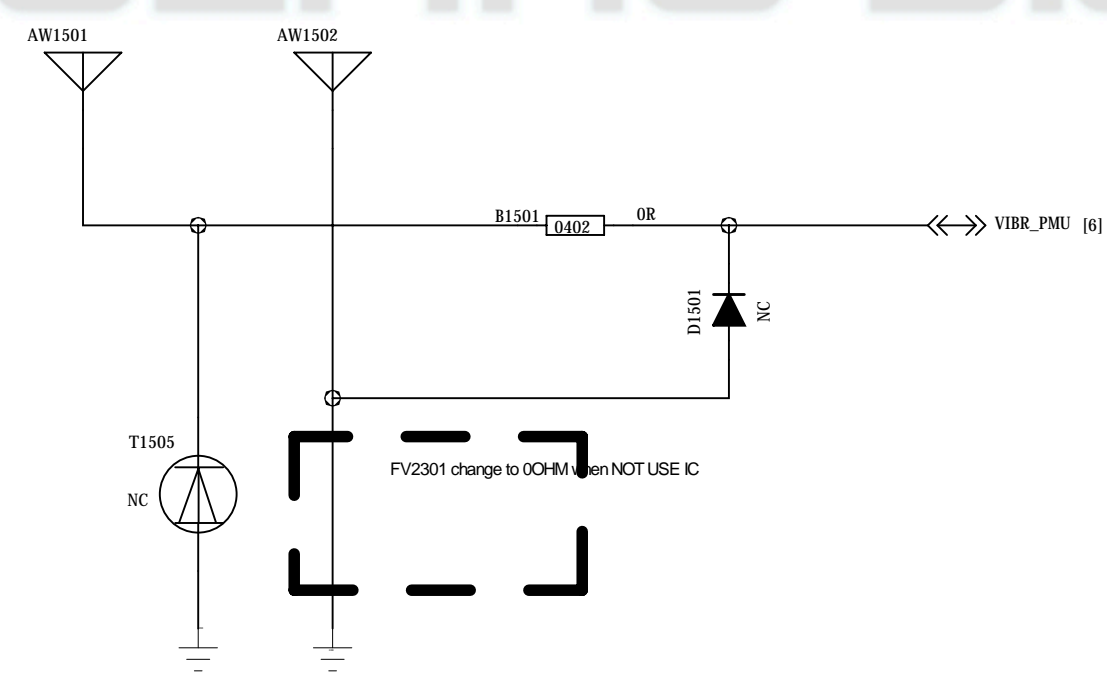
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TYPE	ECO NO.	APPROVED	DATE

RGB LED
BlinkLED Driver



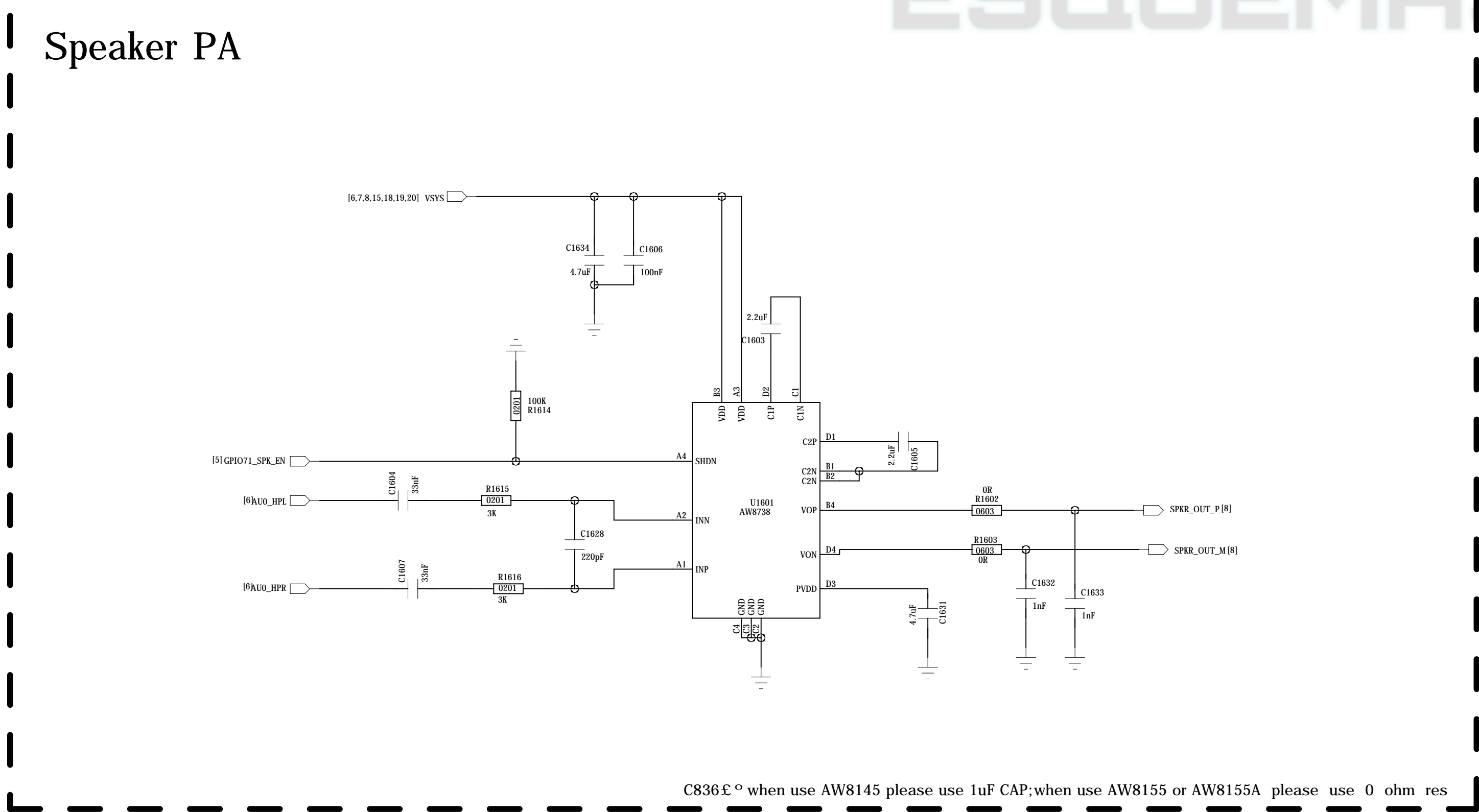
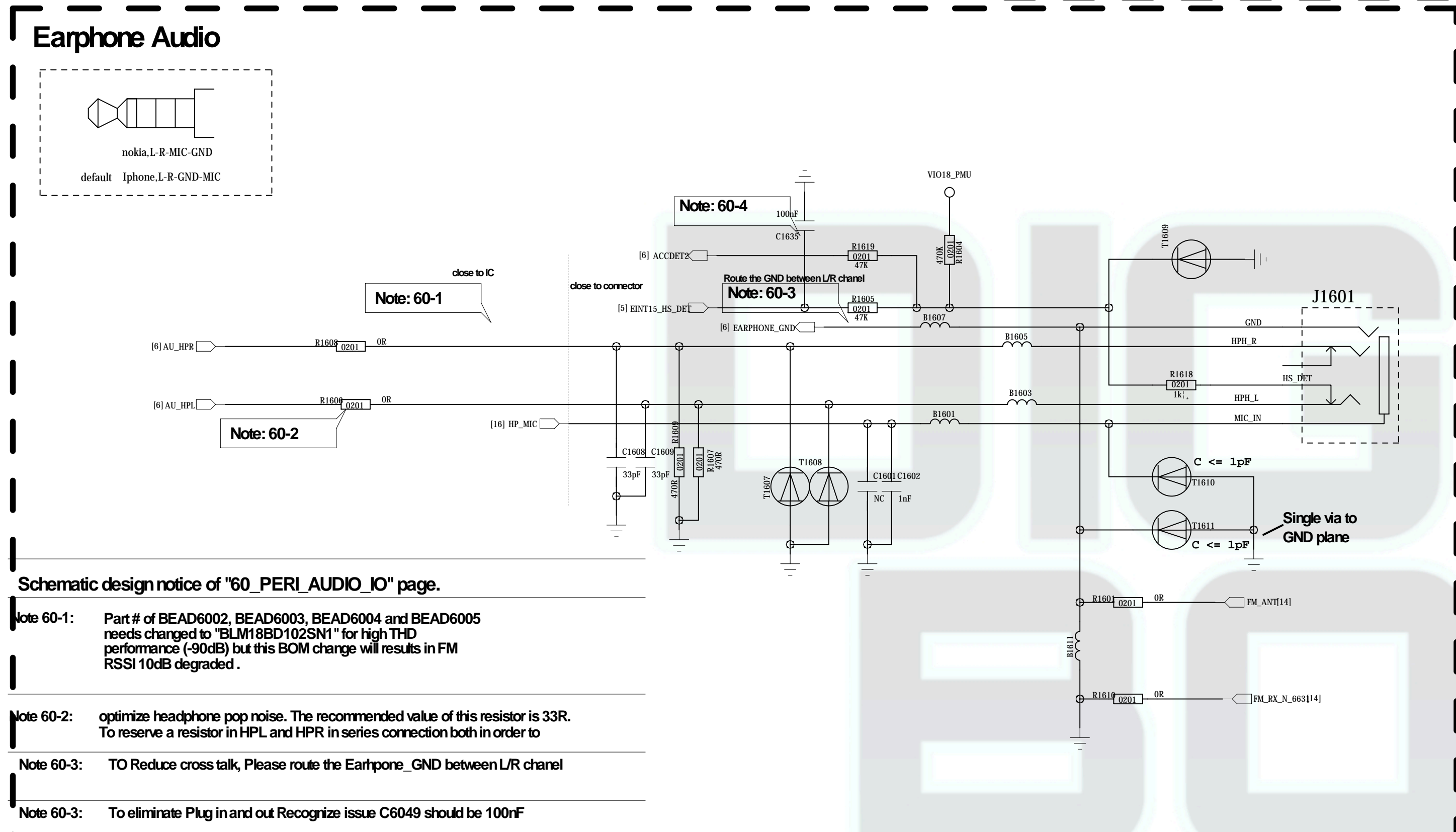
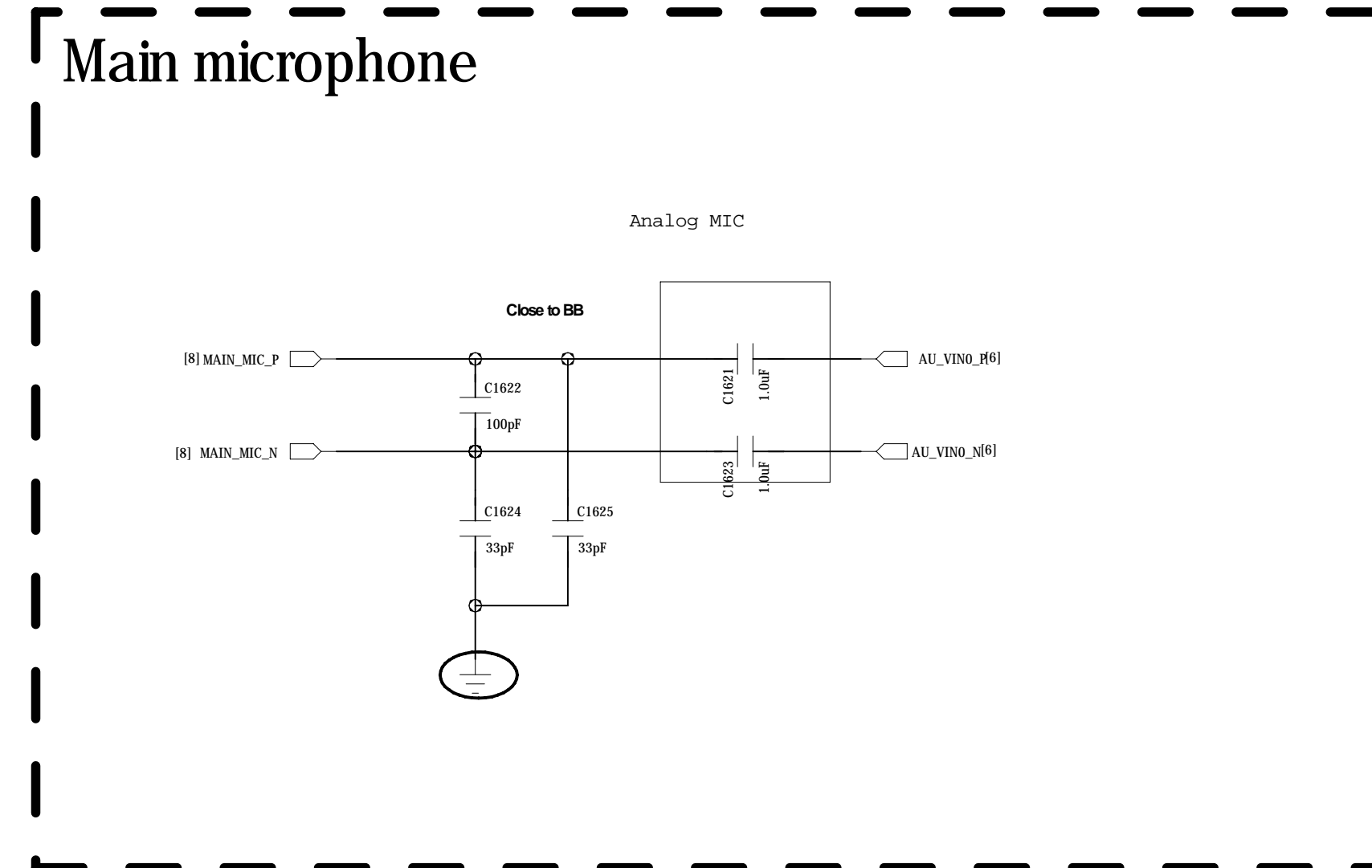
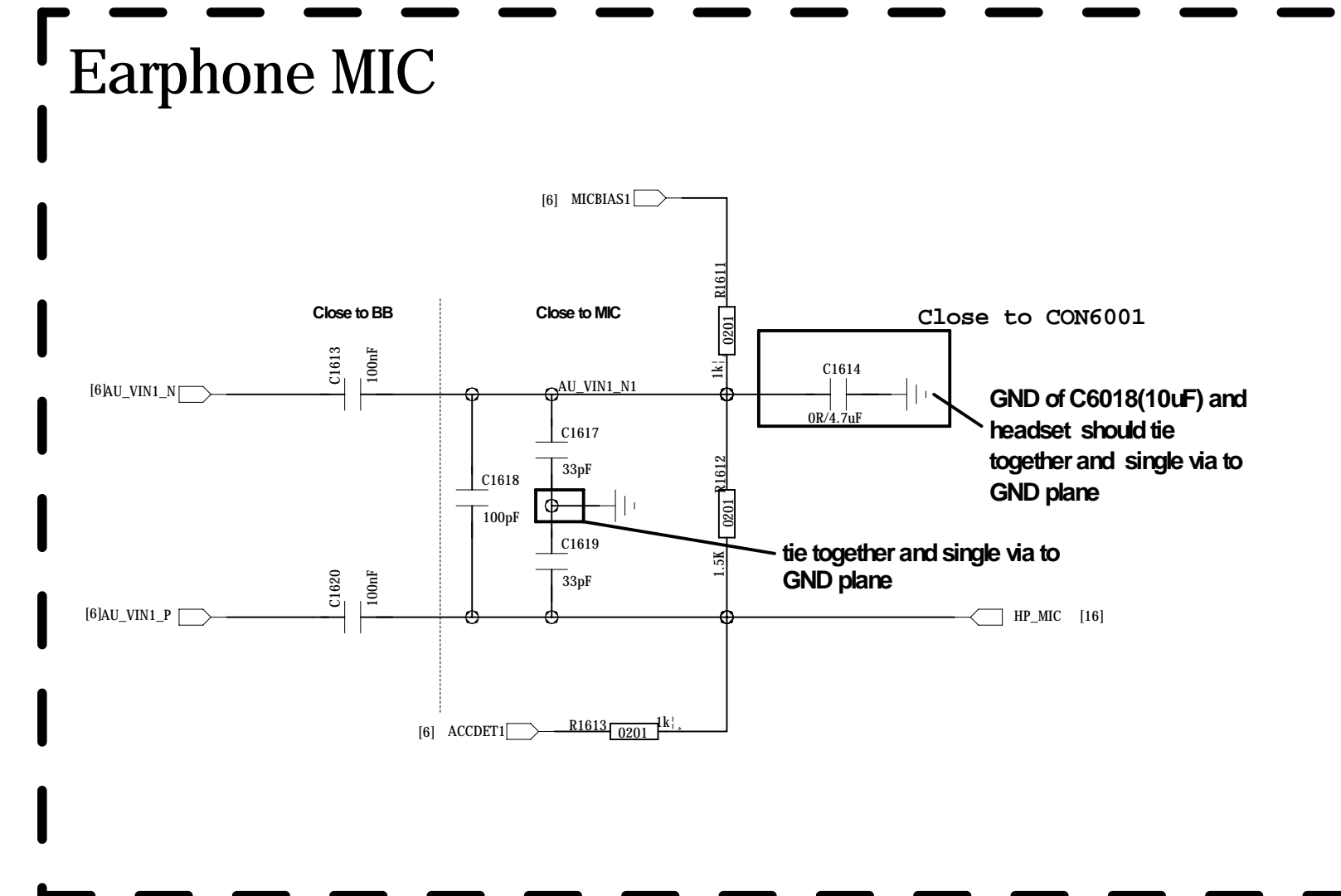
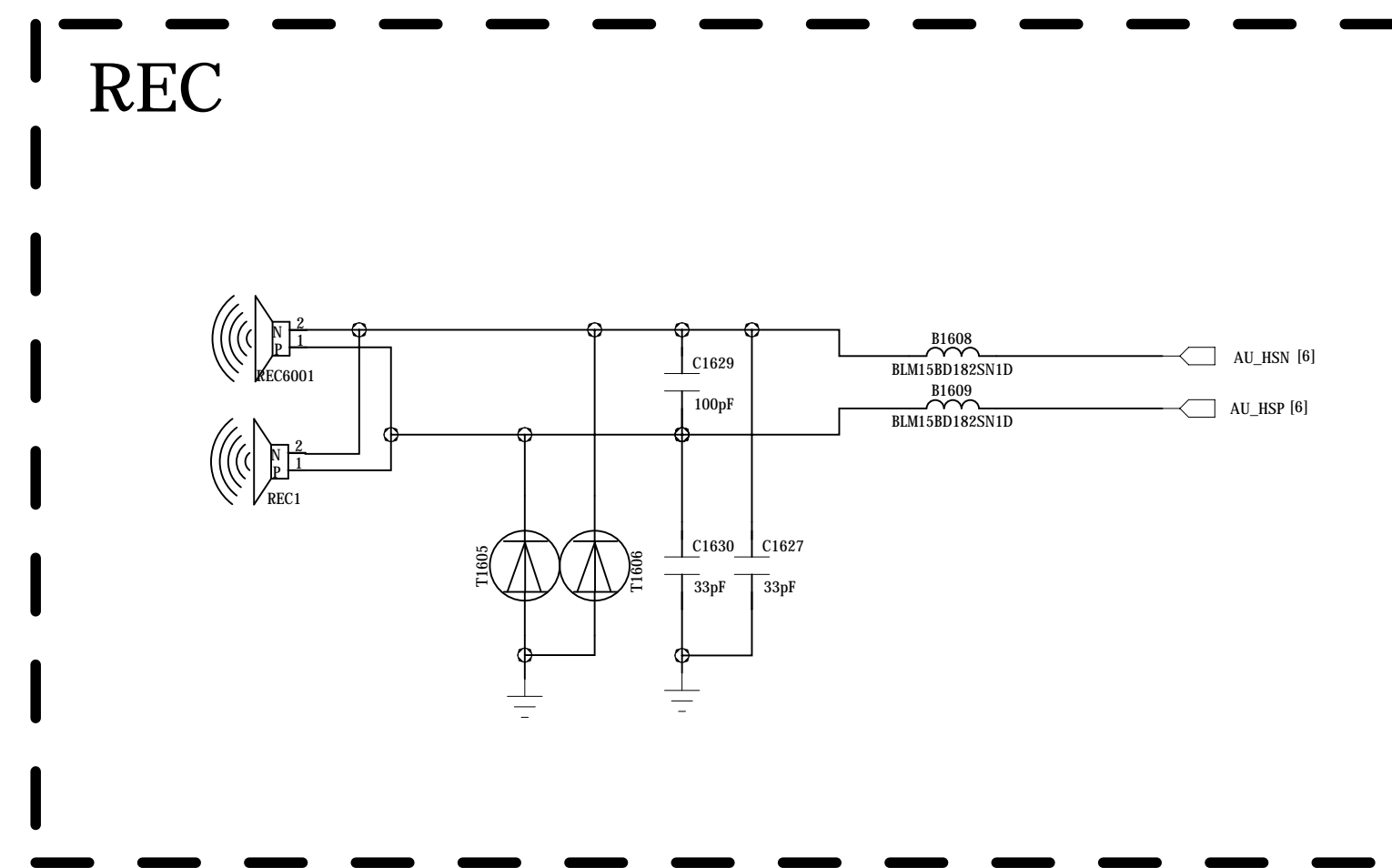
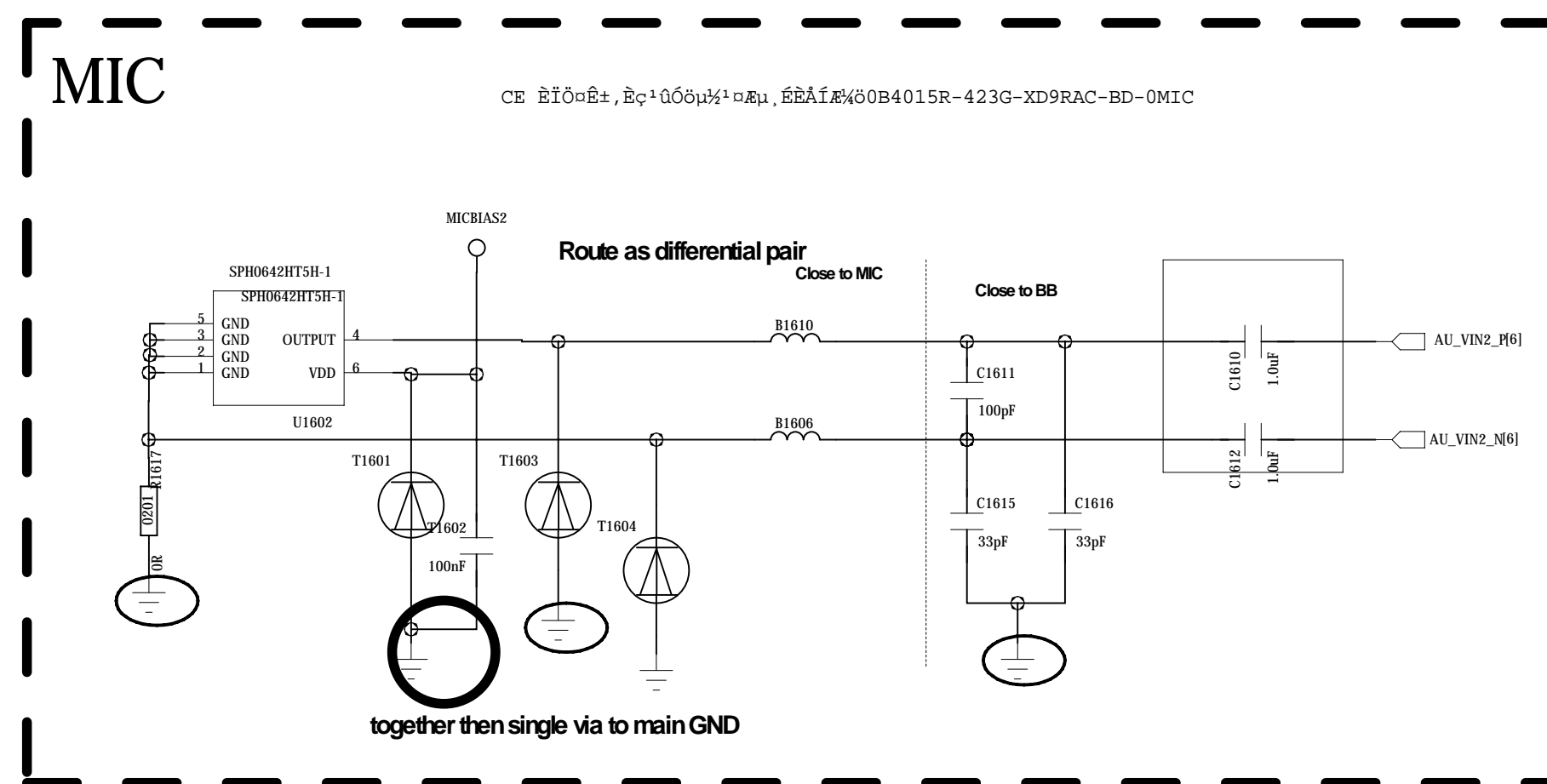
MOTOR DRIVER CIRCUIT

MOTOR CONTACT



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LC			
TITLE			
CX880			
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REVISION RECORD			
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