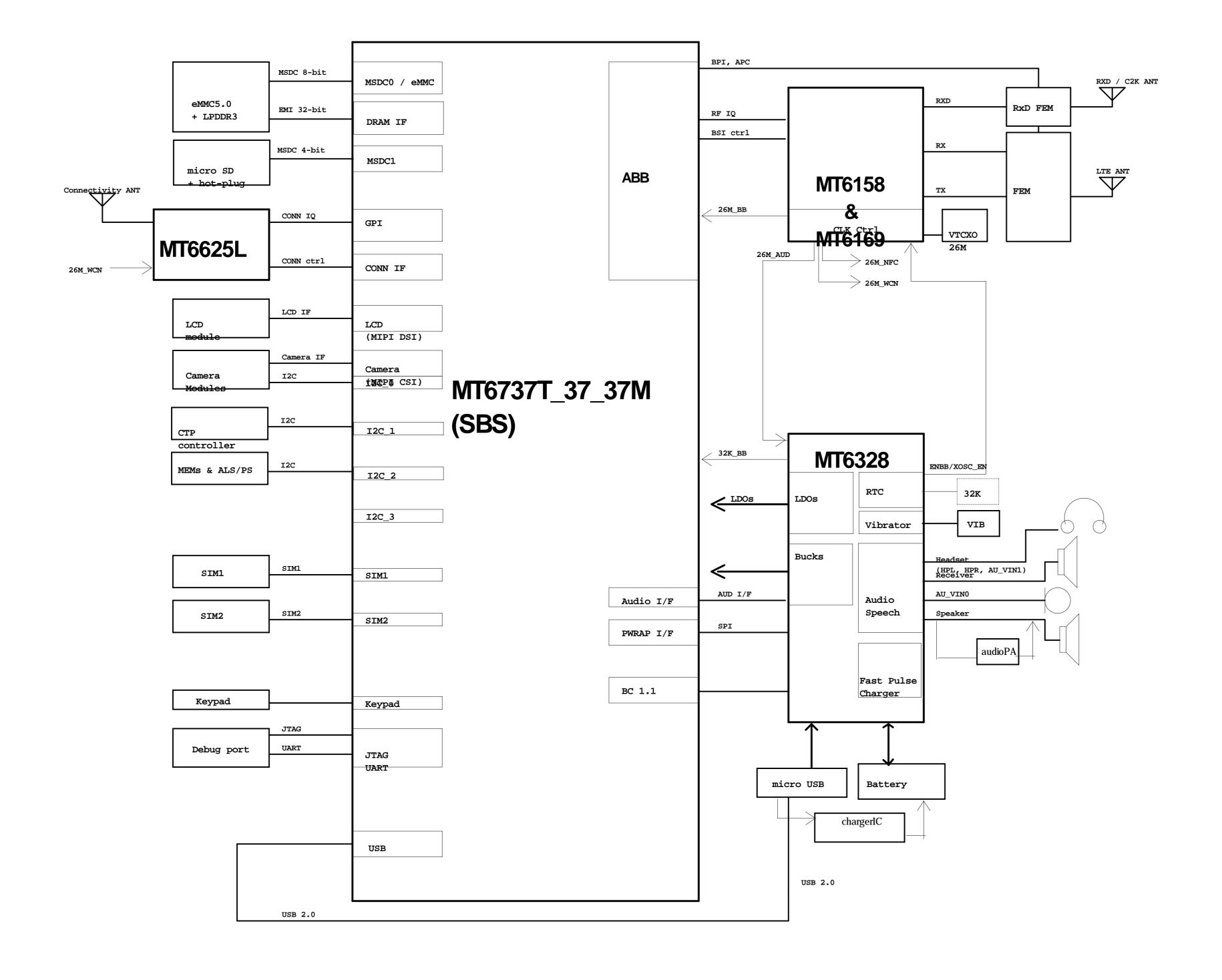
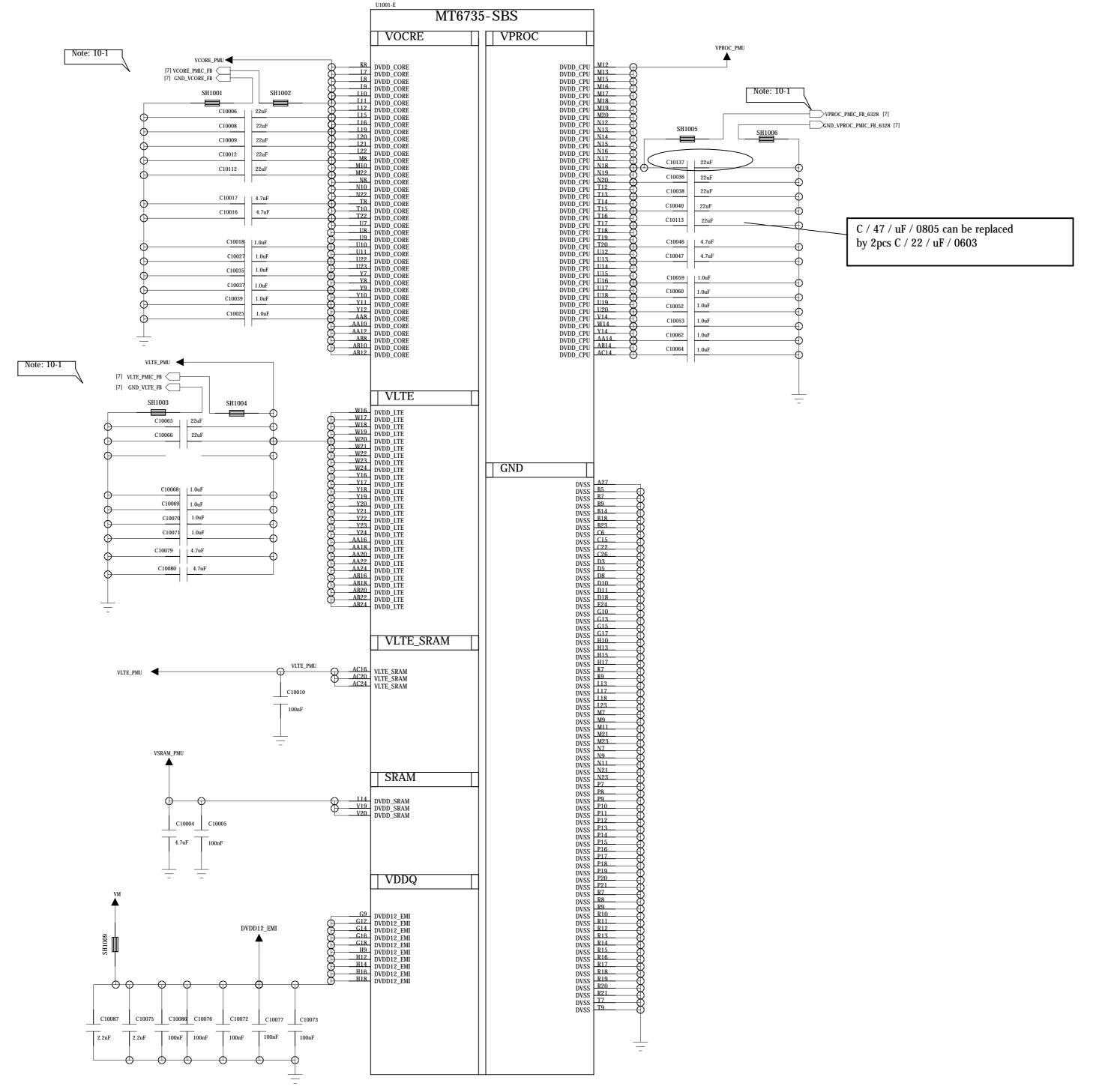
Project: MT6737T_37_37M REF_SCH TOP LEVEL

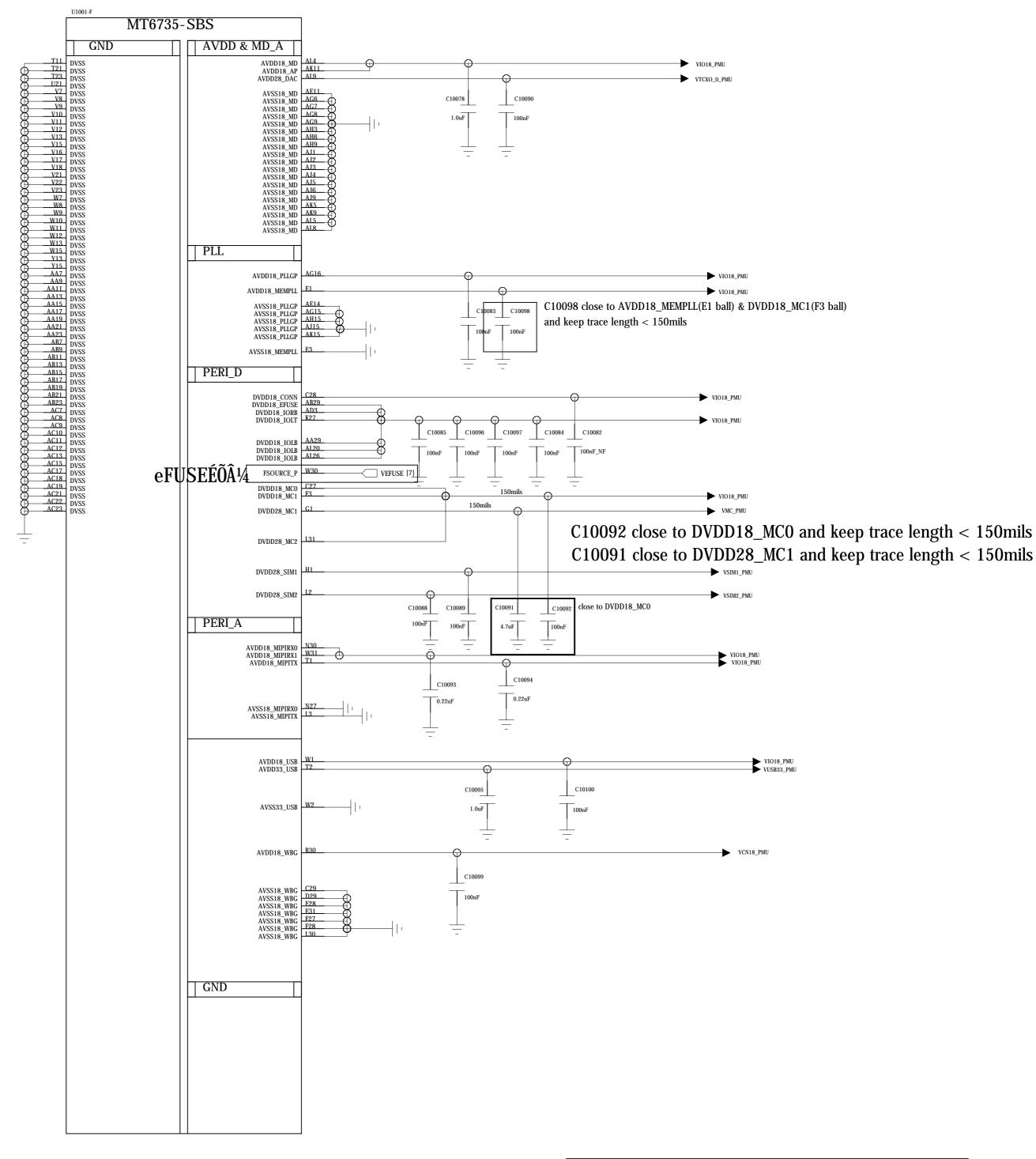


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12C	Function	12C Spec.	Budget Timing	I2C Slave Address (7-bit mode)
	Rear Camera - 8M	400 Kbps	Yes.	Rear camera (IMX135) I2C address: 0X10 (Write:0x20, Read:0x21) AF driver (DW9714A) I2C address: 0x0C (Write:0x18, Read:0x19)
I2C-0	Front Camera-2M	400 Kbps	Yes.	Front camera (GC2355) I2C address: 0x3C (Write:0x78, Read:0x79)
	charger IC			charger IC (FAN54015) I2C address: 0x6A (Write:0xD4, Read:0xD5)
I2C-1	СТР	400 Kbps	Yes.	GT1151 / CTP I2C address: 0X5D (Write:0xBA, Read:0xBB) or 0x14 (Write:0x28, Read:0x29)
	LCD_DC-DC			DC-DC(KTD2151EUO-TR) I2C Address: 0x3E (Write:0x7C, Read:0x7D)
	G-Sensor	400 Kbps	Yes.	G-Sensor(BMA253) I2C Address: 0x18 (Write:0x30, Read:0x31)
I2C-2				
I2C-3				
Note :	I2C Spec. : Standard mod	de (100 kbps) and F	Fast mode (400 kbps),	Fast mode Plus (1 Mbps) and High-speed mode (3.4 Mbps)

TITLE:		<title></th><th></th><th>REV:</th><th><REV</th><th>·></th></tr><tr><th>DOCUMENT NO.:</th><th>. I2C_I</th><th>D_OVERVIE</th><th>W</th><th>SIZED:</th><th>A1</th><th></th></tr><tr><th>DEPARTMENT:</th><th>Н</th><th>ardware Dl</th><th>ЕРТ.</th><th></th><th></th><th></th></tr><tr><th>COMPANY:</th><th></th><th><u>//ING</u></th><th>TEC/·/</th><th></th><th></th><th></th></tr><tr><td>DESIGNER:</td><td><DESIGNER></td><td>Last Saved Date:</td><td>2017/1/16/ÐÇÆÚÒ»</td><td>SHEET:</td><td>2</td><td>OF 21</td></tr></tbody></table></title>
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Schematic design notice of "10_BB_POWER" page.

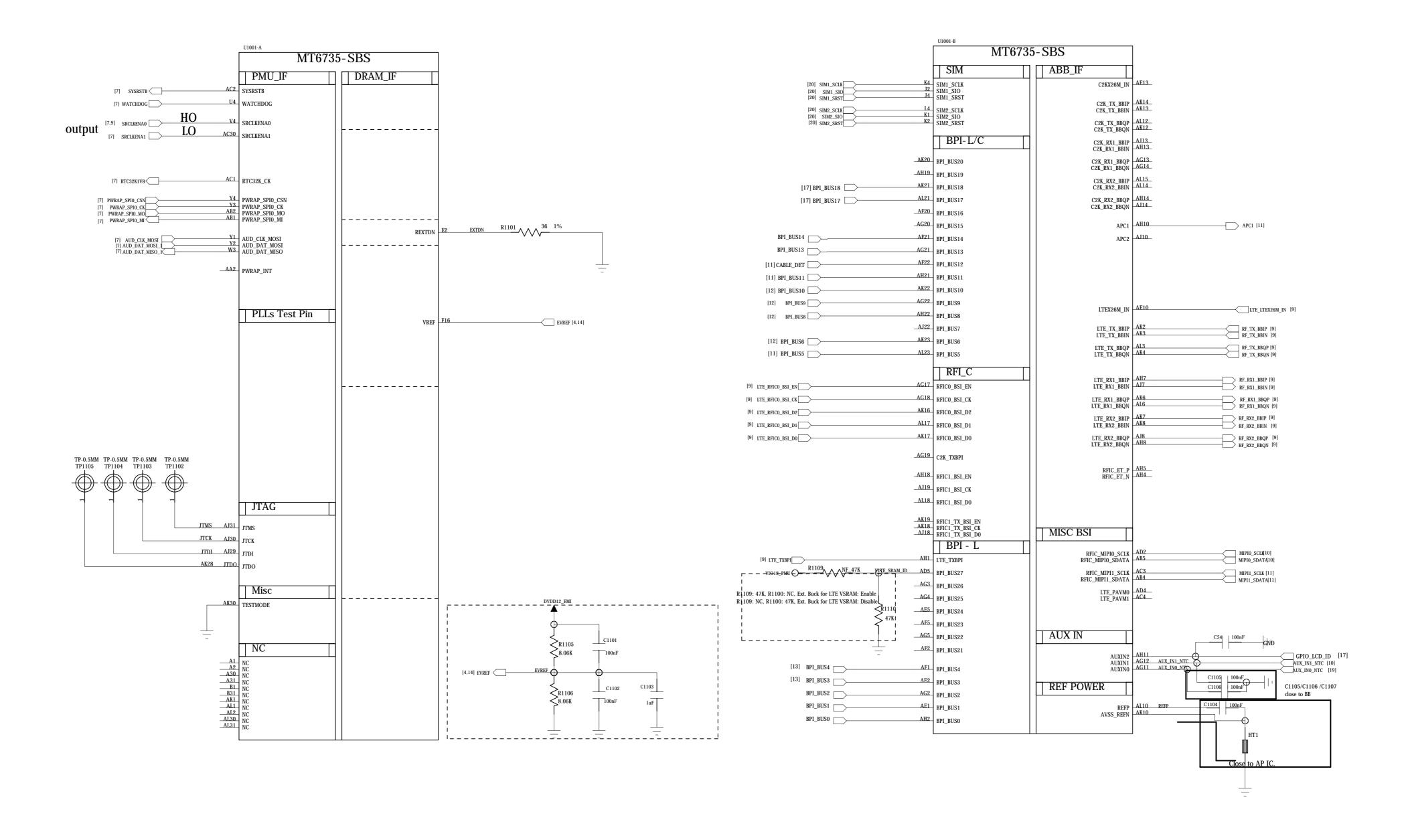
Note 10-1: 4 mil GND trace with good shielding to PMIC

(Differential)

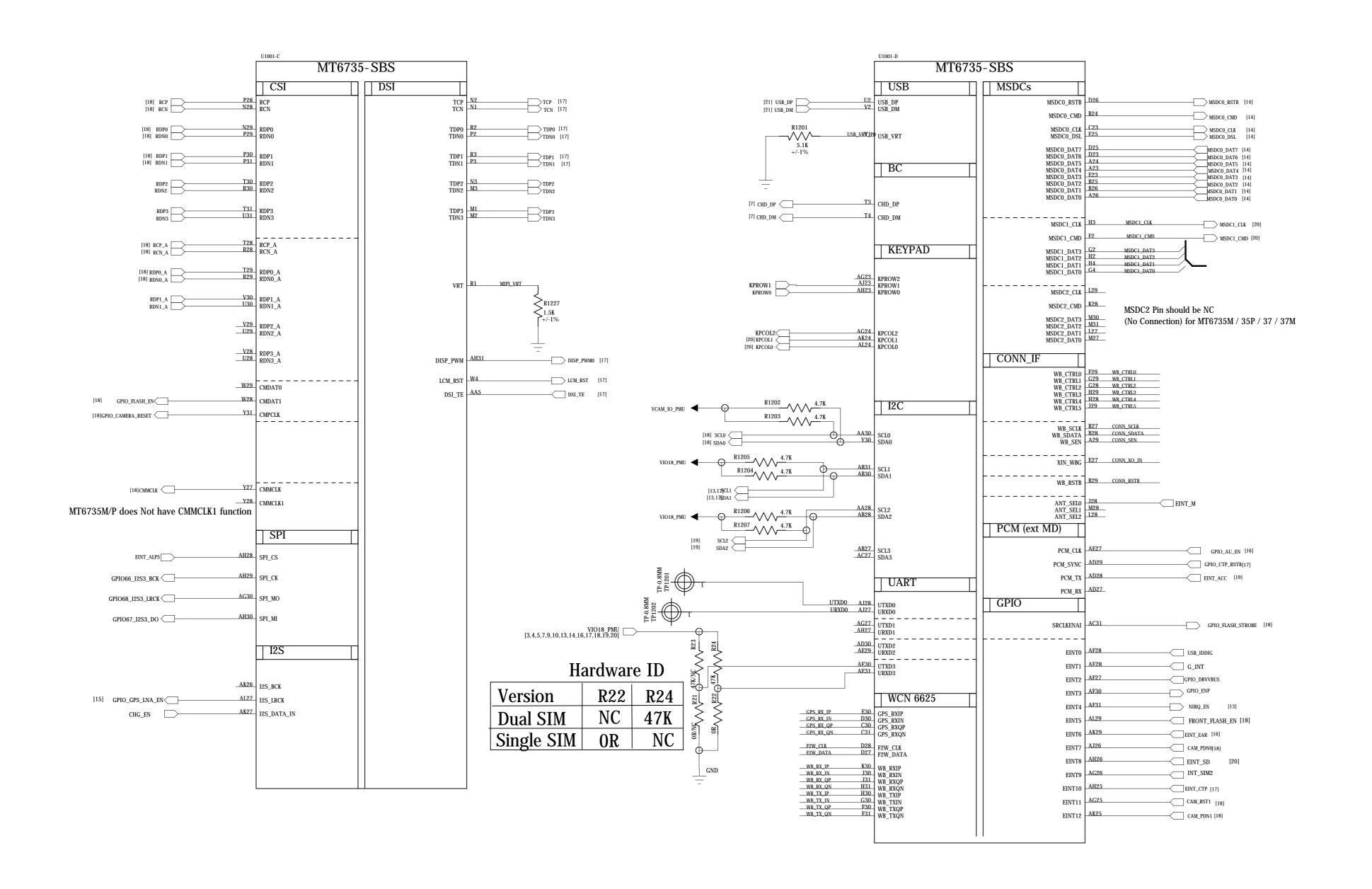
Note 10-3: FSOURCE_P(EFUSE)

(1)FSOURCE_P EFUSE power(VEFUSE) should be only for EFUSE usage(not share with other application) (2)W/I EFUSE program, VEFUSE need 1uF bypass cap (pls refer to ¡§LDO output voltage/current table;") (3)W/O EFUSE program, VEFUSE bypass cap should be NC.

TITLE:		<title></th><th></th><th>REV:</th><th><REV</th><th><i>l></i></th><th></th></tr><tr><th>DOCUMENT NO.:</th><th>. 10_</th><th>BB_POWER</th><th></th><th>SIZED:</th><th>A1</th><th></th><th></th></tr><tr><th>DEPARTMENT:</th><th>На</th><th>ardware D</th><th>EPT.</th><th></th><th></th><th></th><th></th></tr><tr><th>COMPANY:</th><th></th><th><u>//NG</u></th><th>TEC/·/</th><th></th><th></th><th></th><th></th></tr><tr><th>DESIGNER:</th><th><DESIGNER></th><th>Last Saved Date:</th><th>2017/1/16/ÐÇÆÚÒ»</th><th>SHEET:</th><th>3 (</th><th>OF 21</th><th></th></tr></tbody></table></title>
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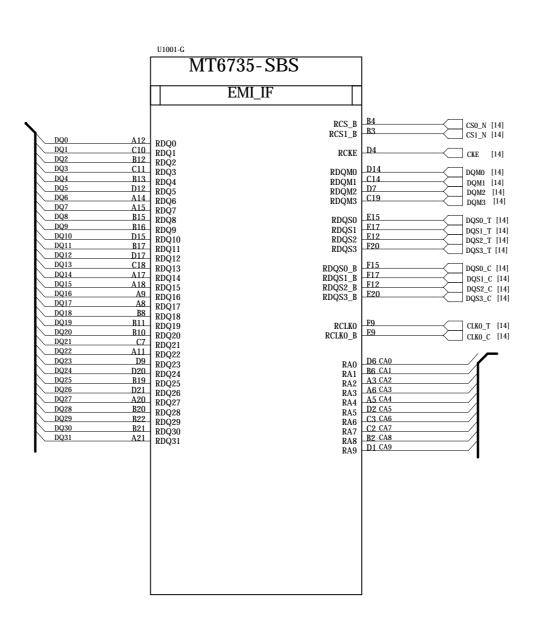


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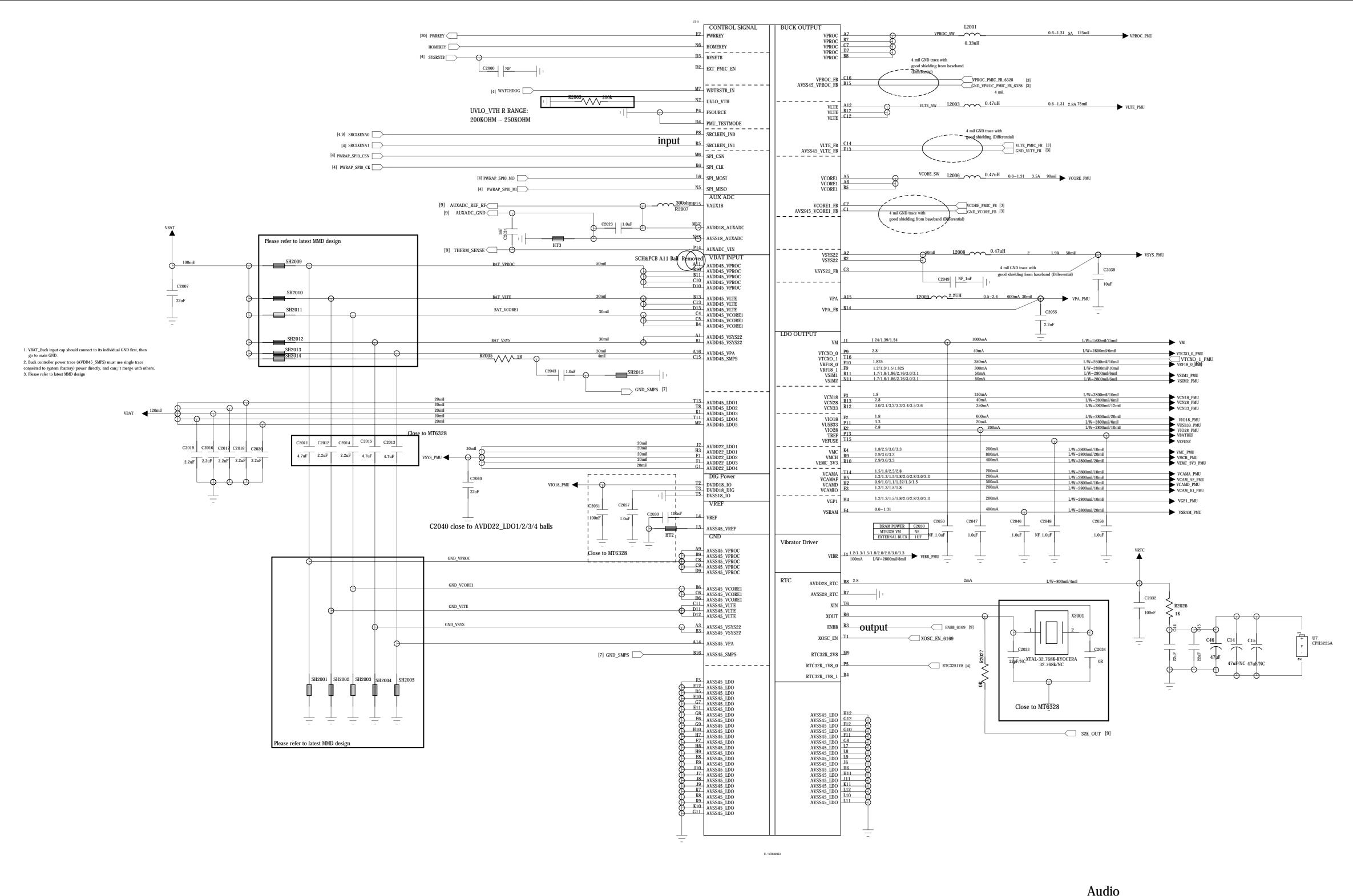


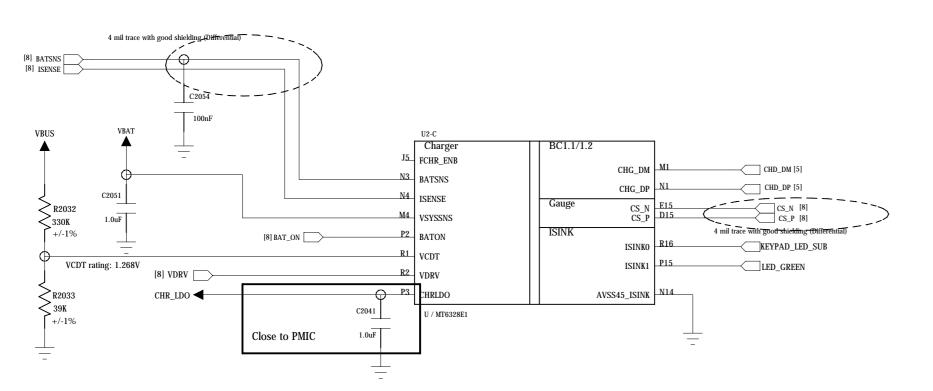
WB_CTRL0	WB_CTRL0	-
WB_CTRL1	WB_CTRL1	_
[5,15] WB_CTRL2	WB_CTRL2	_
[5,15] WB_CTRL3	WB_CTRL3	_
[5,15] WB_CTRL4	WB_CTRI.4	_
[5,15] WB_CTRL5	WB_CTRL5	_
[5,15] CONN_SCLIC	CONN_SCLK	_
[5,15] CONN_SDAT	CONN_SDATA	_
[5,15] CONN_SEN	CONN_SEN	_
[5,15] CONN_RSTB	CONN_RSTB	_
[5,15]		
GPS_RX_IP	GPS_RX_IP	_
GPS_RX_IN	GPS_RX_IN	_
GPS_RX_QP	GPS_RX_QP	_
GPS_RX_QN	GPS_RX_QN	_
F2W_CLK	F2W_CLK	_
[5,15] F2W_DATA	F2W_DATA	_
[5,15] WB_RX_IP	WB_RX_IP	
[5,15] WB_RX_IN	WB_RX_IN	
[5,15] WB_RX_QP	WB_RX_QP	
[5,15] WB_RX_QN	WB_RX_QN	
[5,15] WB_TX_IP	WB_TX_IP	
[5,15] WB_TX_IN	WB_TX_IN	
[5,15] WB_TX_QP	WB_TX_QP	
[5,15] WB_TX_QN	WB_TX_QN	
[5,15]		
CONN_XO_IN	CONN_XO_IN	

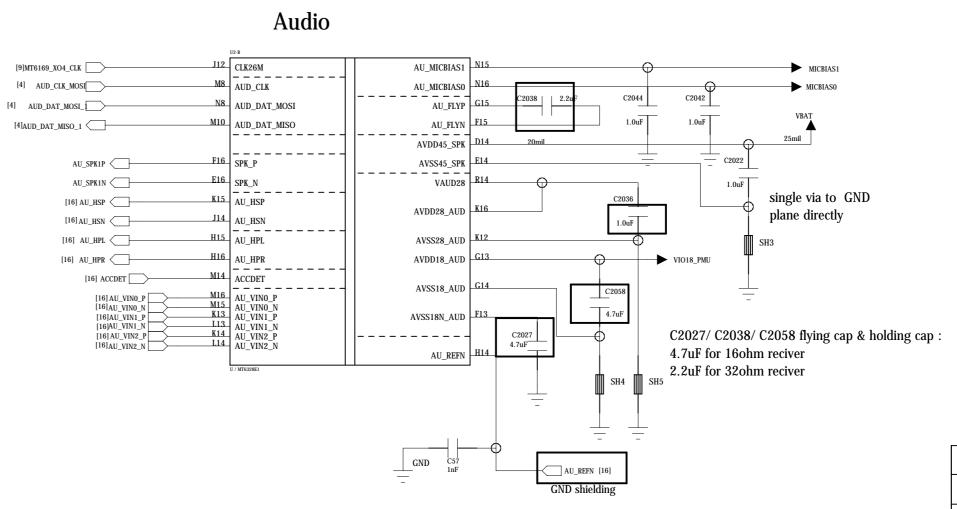
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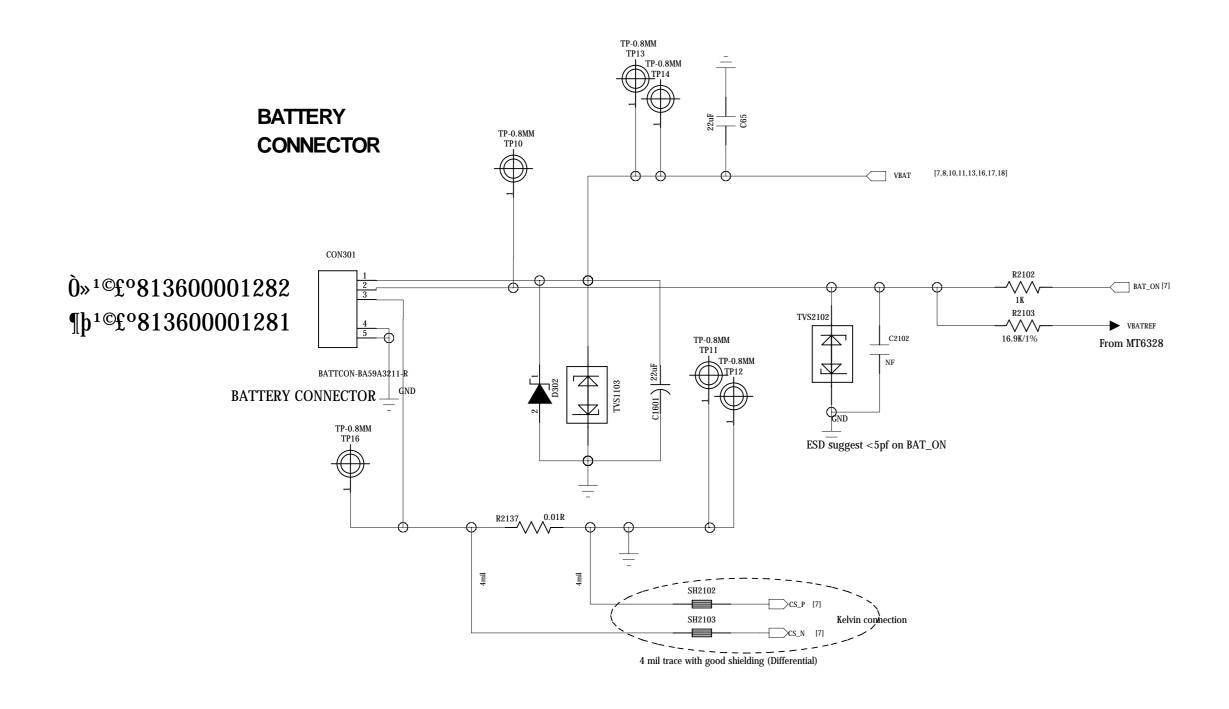




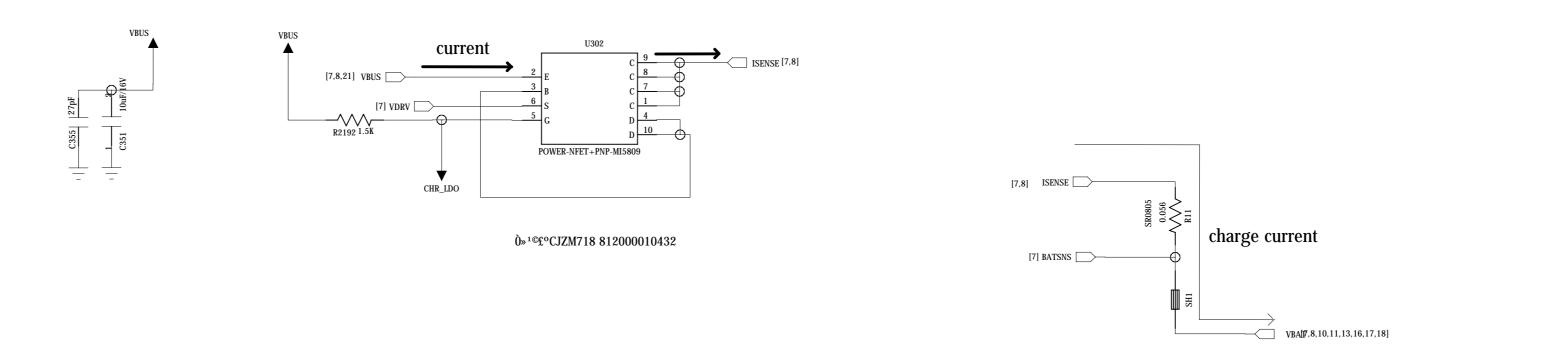


To improve noise level, connect to audio jack first, and then connect to GND

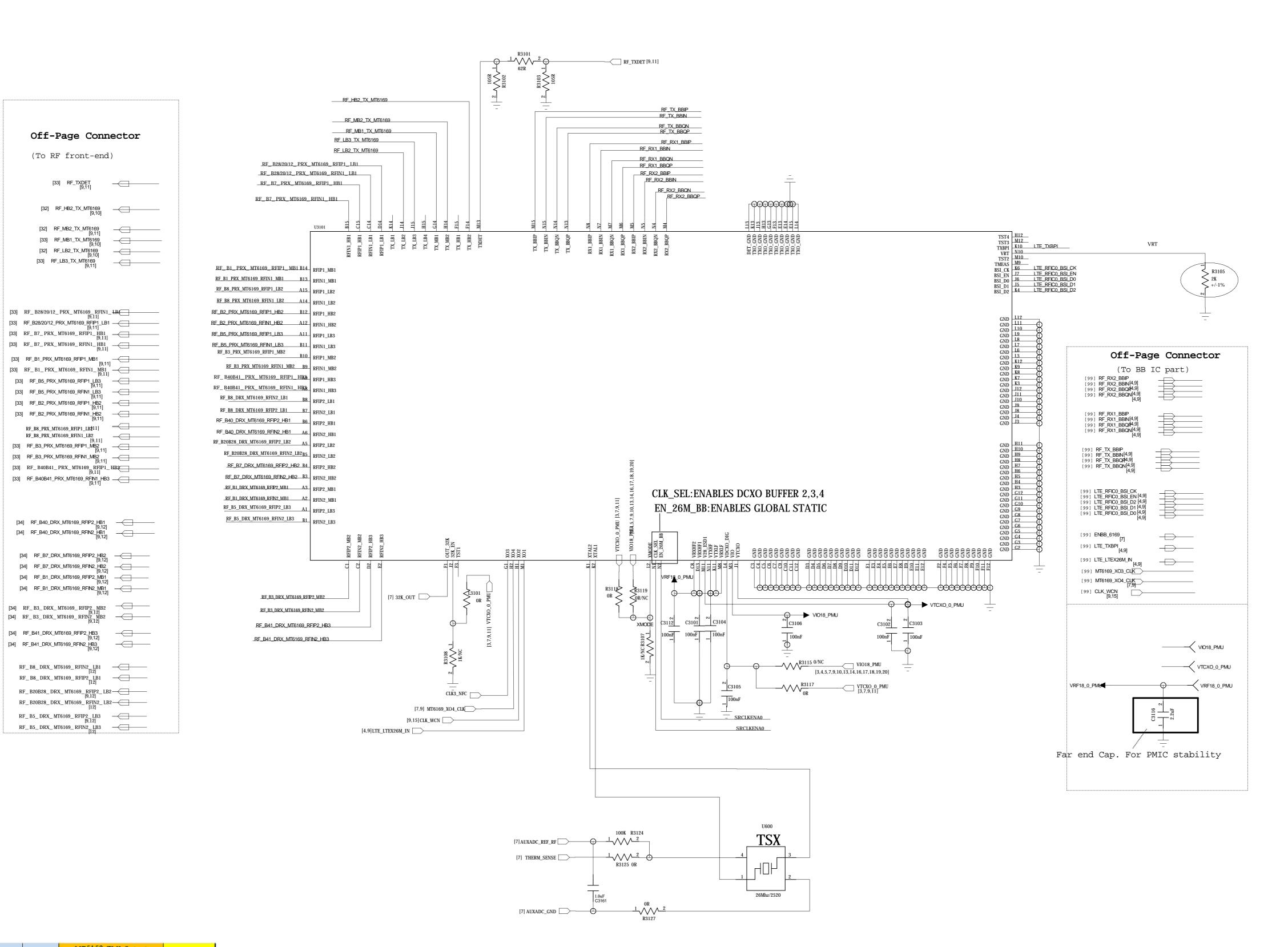
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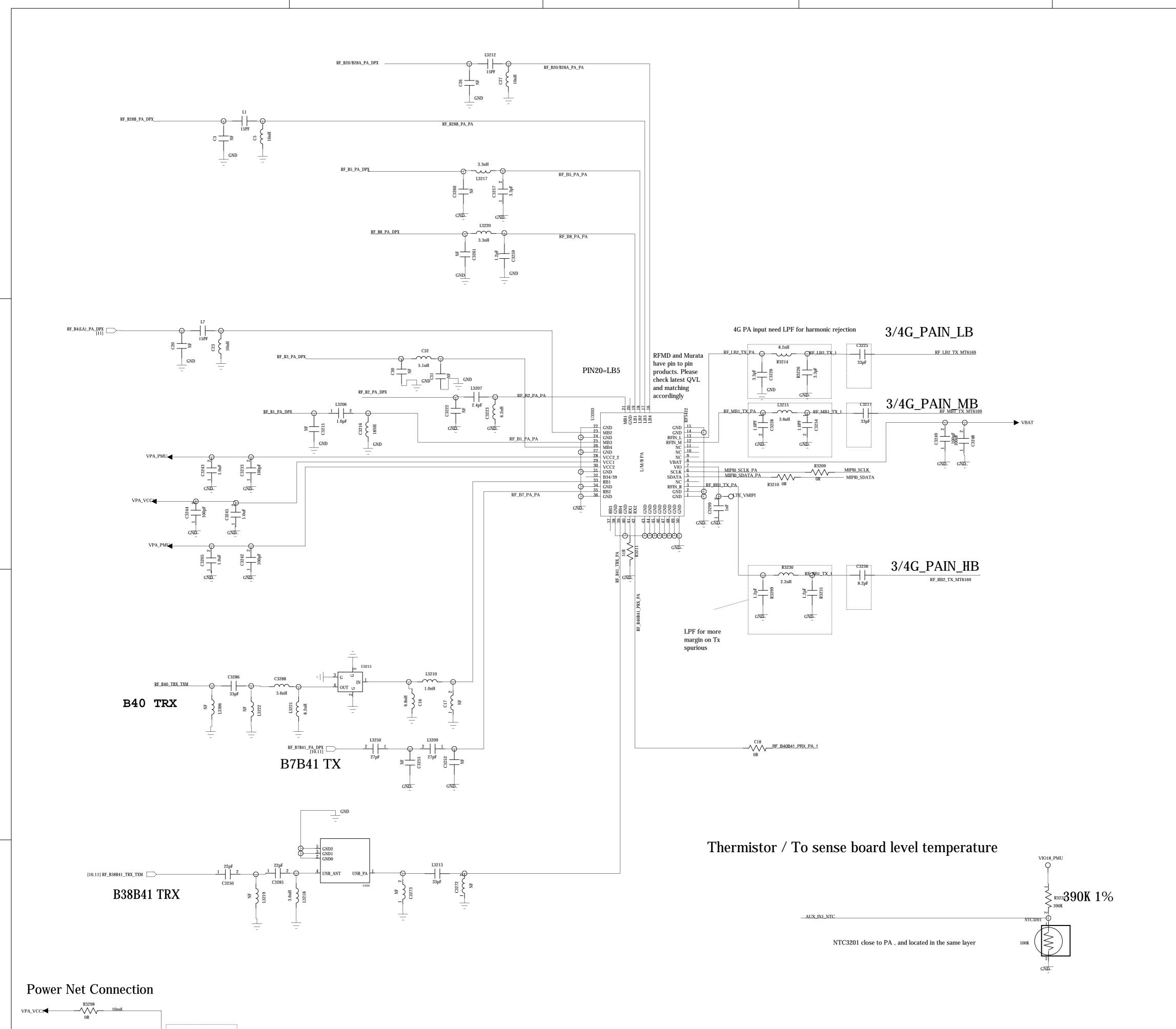


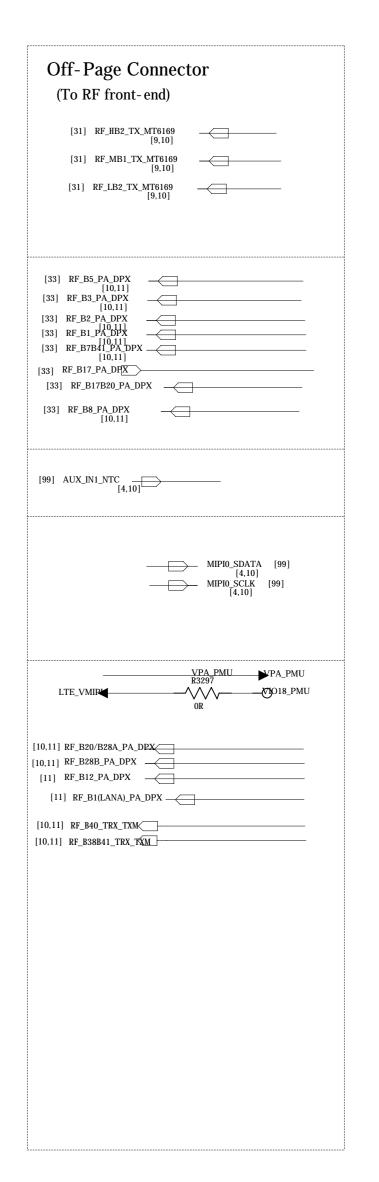
Case		MT6169 Co	ntrol Pin			MT610	69 CLK O	utput	Clock scheme
Lase	XMODE	32K_EN	VDXCO_DIG	EN_26M_BB	CLK_SEL	OUT_32K	X01	XO2~4	Clock scheme
1	0	0		0	0	Off	Off	Off	VCTXO 32K XO
2	0	0	V1018	1	1	Off	26M Out	26M Out	32K XU
3	VIO18	0		0	0	Off	Off	Off	26M XO
4	¥1016	0		1	1	Off	26M Out	26M Out	32K XO
5	VTCXO28	VTCXO28	VTCXO28	0	0	On	Off(LPM)	Off	26M XO
6	VICAU20	VICAU20	VICAU20	1	1	On	26M Out	26M Out	32K Less

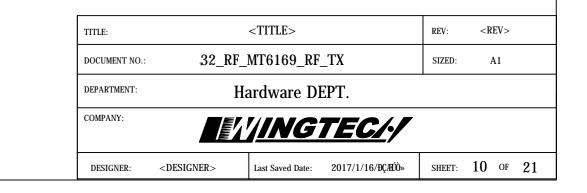
CLOCK:CO-TSX+32K LESS

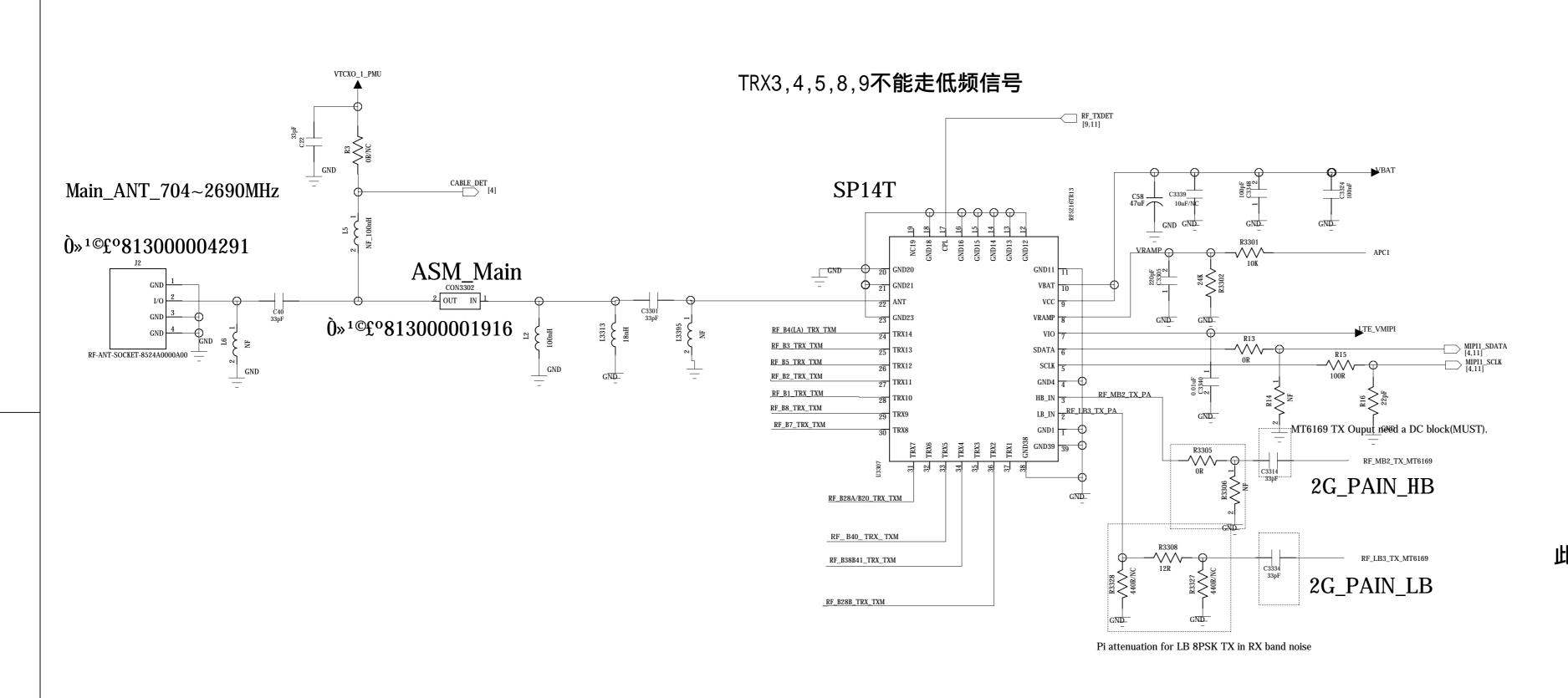
Clock Scheme	32	2K Crystal	Compone	nt		32K_EN			XMODE		VDCX	O_DIG					VCTCXO	/ TSX Con	nponent					MT6328 AuxADC VTCXO2 Pov			VTCXO2 Power
CIDER SETTEME	R2027	C2033	C2034	X2001	R3116	L3101	R3108	R3119	R3118	R3107	R3115	R3117	R3114	R3126	R3124	R3125	R3127	X3102	U3103	C3113	C3114	C3115	C3161	C2024	C2023	R2007	VTCXO2 Power Connection
VCTXO + 32K Exist	NC	22pF	22pF	32K X'tal	NC	NC	1K	NC	NC	1K	0R	NC	0R	0R	NC	NC	NC	NC	VCTCXO	100nF	100nF	NC	NC	OR	1uF	0R	Connect to VTCXO_0_PMU
TSX + 32K Exist	NC	22pF	22pF	32K X'tal	NC	NC	1K	0R	NC	NC	0R	NC	NC	NC	100K	0R	0R	TSX	NC	NC	NC	NC	NC	1nF	1uF	Bead	Connect to VTCXO_0_PMU
TSX + 32K Less	0R	NC	0R	NC	NC	0R	NC	NC	0R	NC	NC	OR	NC	NC	100K	0R	0R	TSX	NC	NC	NC	NC	NC	1nF	1uF	Bead	Connect to VTCXO_1_PMU

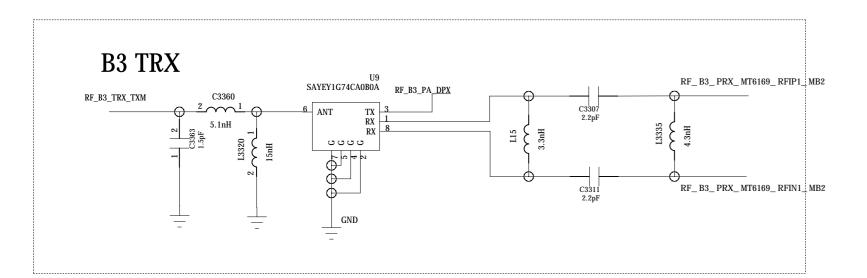
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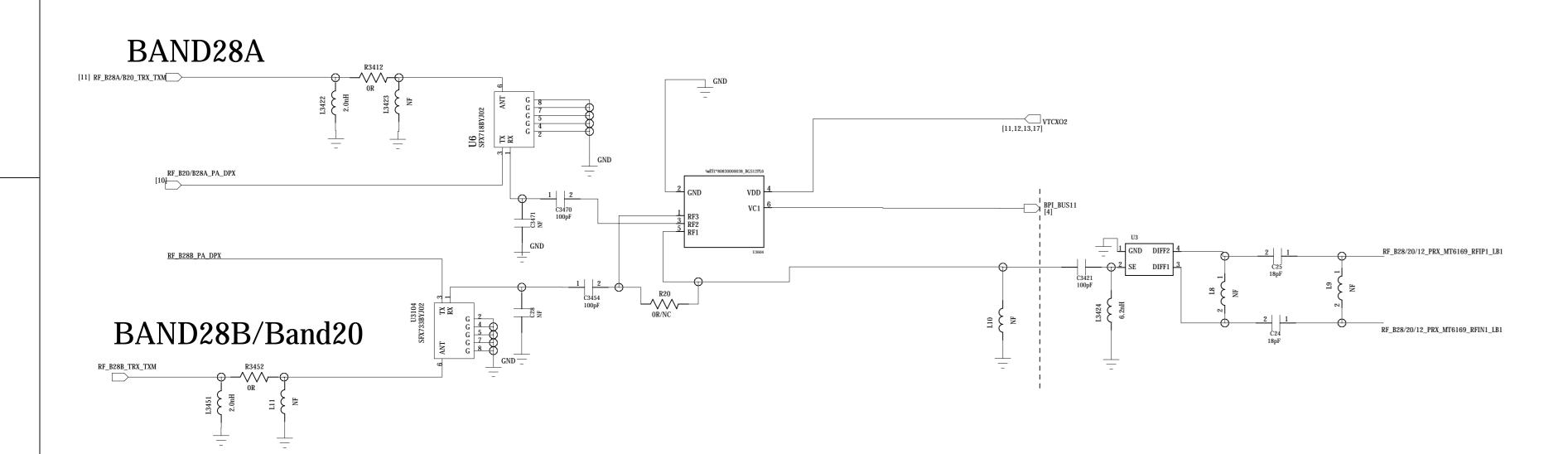


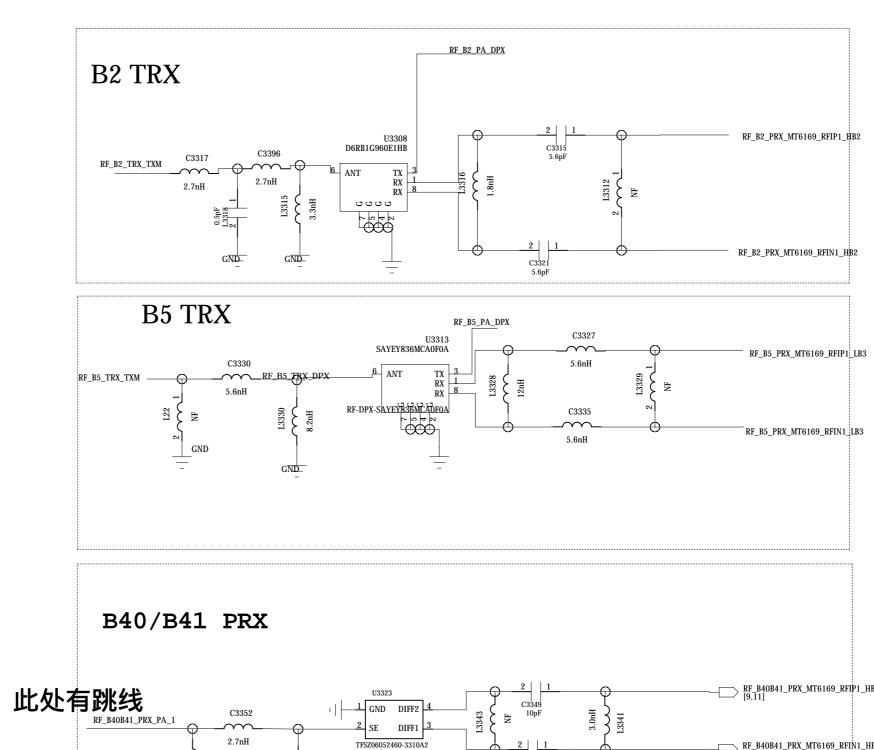


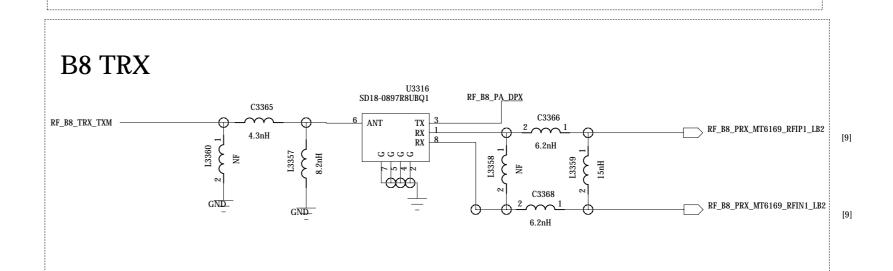


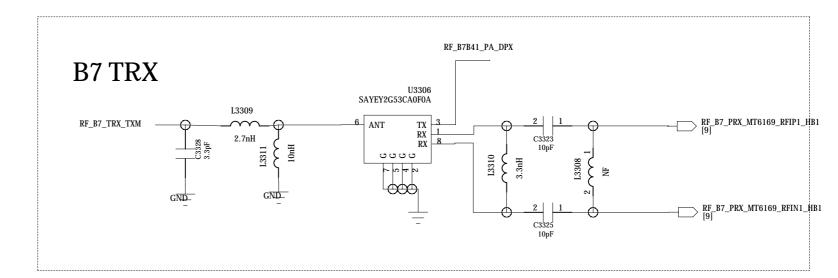


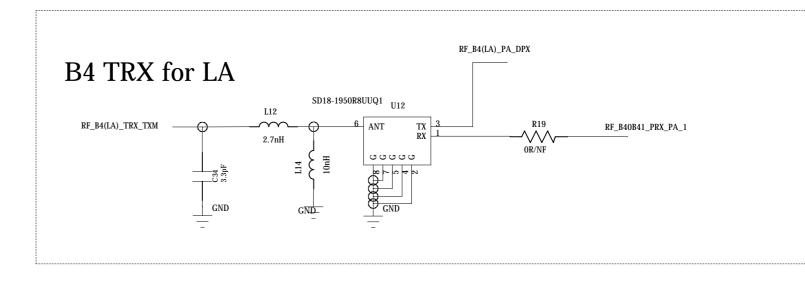


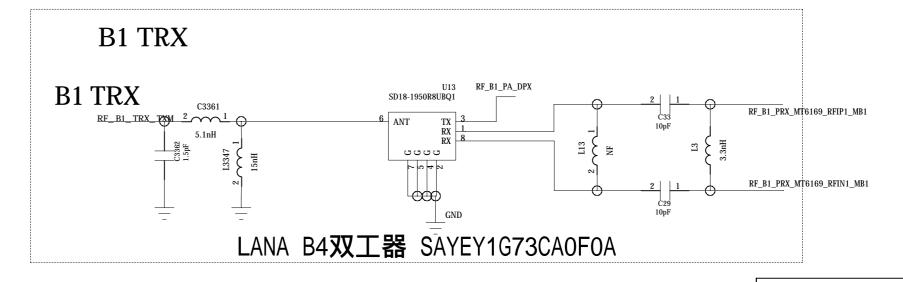












31					
B1					
	TEVEN E			DEW	
33 RF	<title>
MT6169_RF_</th><th>PRX</th><th>REV:
SIZED:</th><th><REV></th><th></th></tr><tr><td></td><td>ardware Dl</td><td></td><td></td><td></td><td></td></tr><tr><th></th><th></th><th>TEC/·/</th><th></th><th></th><th></th></tr><tr><th>IGNER></th><th>Last Saved Date:</th><th>2017/1/16/ÐÇÆÚÒ»</th><th>SHEET:</th><th>11 of</th><th>21</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table></title>				

DOCUMENT NO.:

RF_B40_TRX_TXM0,11]

RF_B38B41_TRX[10:XM _____

[31] RF_B2_PRX_MT6169_RFIP1_HB2

[31] RF_B3_PRX_MT6169_RFIP1_MB2

[31] RF_TXDET [9,11]

[32] TRX_B28A/B20 —

[32] RF_B8_PA_DPX [10,11] [32] RF_B5_PA_DPX [10,11]

[32] RF_B2_PA_DPX [10,11] [32] RF_B1_PA_DPX

[32] RF_B3_PA_DPX [10,11]

[32] RF_B7B41_PA_DPX [10,11]
[32] RF_B40B41_PRX_PA_1 [10,11]

RF_B12_PA_DPX [10]

RF_B1(LANA)_F[A0]DPX____

[31] RF_LB3_TX_MT6169 [9,11]

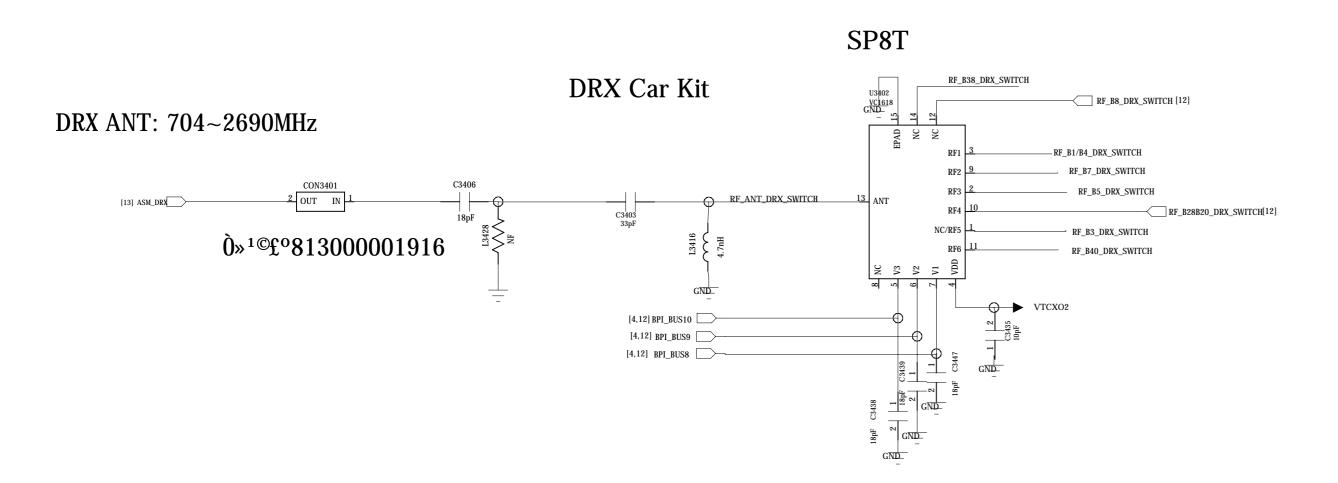
MIPI1_SDATA [99]
[4,11]

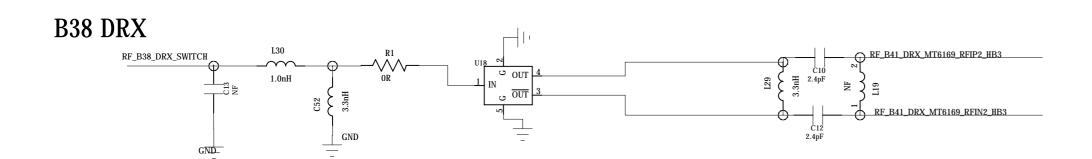
MIPI1_SCLK [99]
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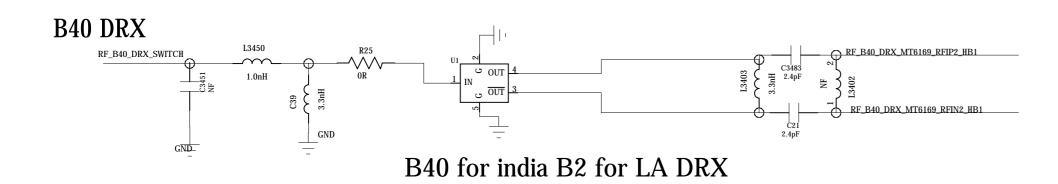
For power VTCXO2 star connection

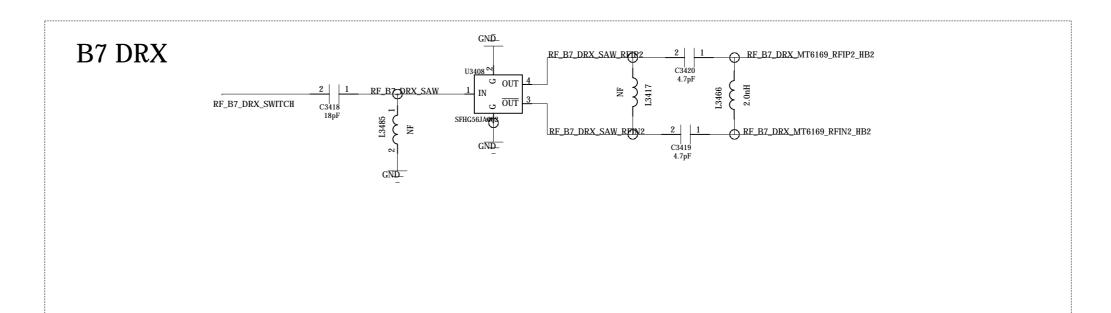
C3383 is power

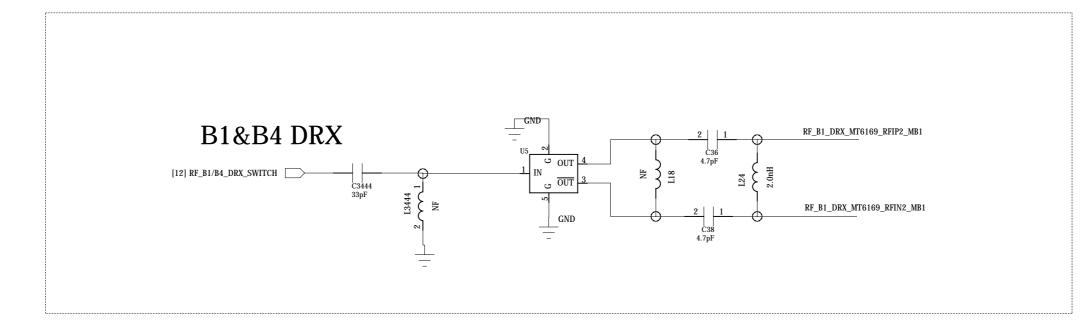
. **powe⊥** . R3380 1 0/NC

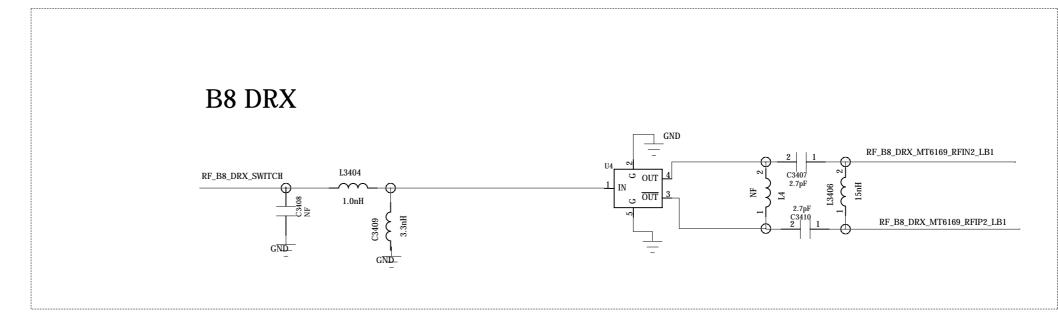


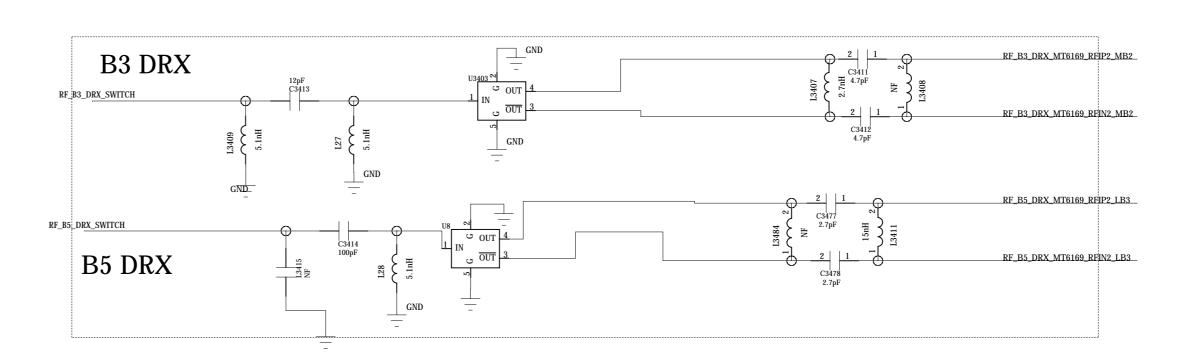


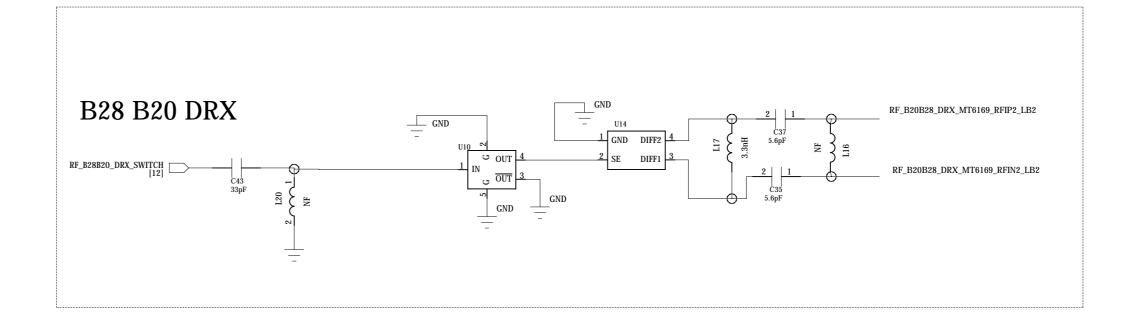






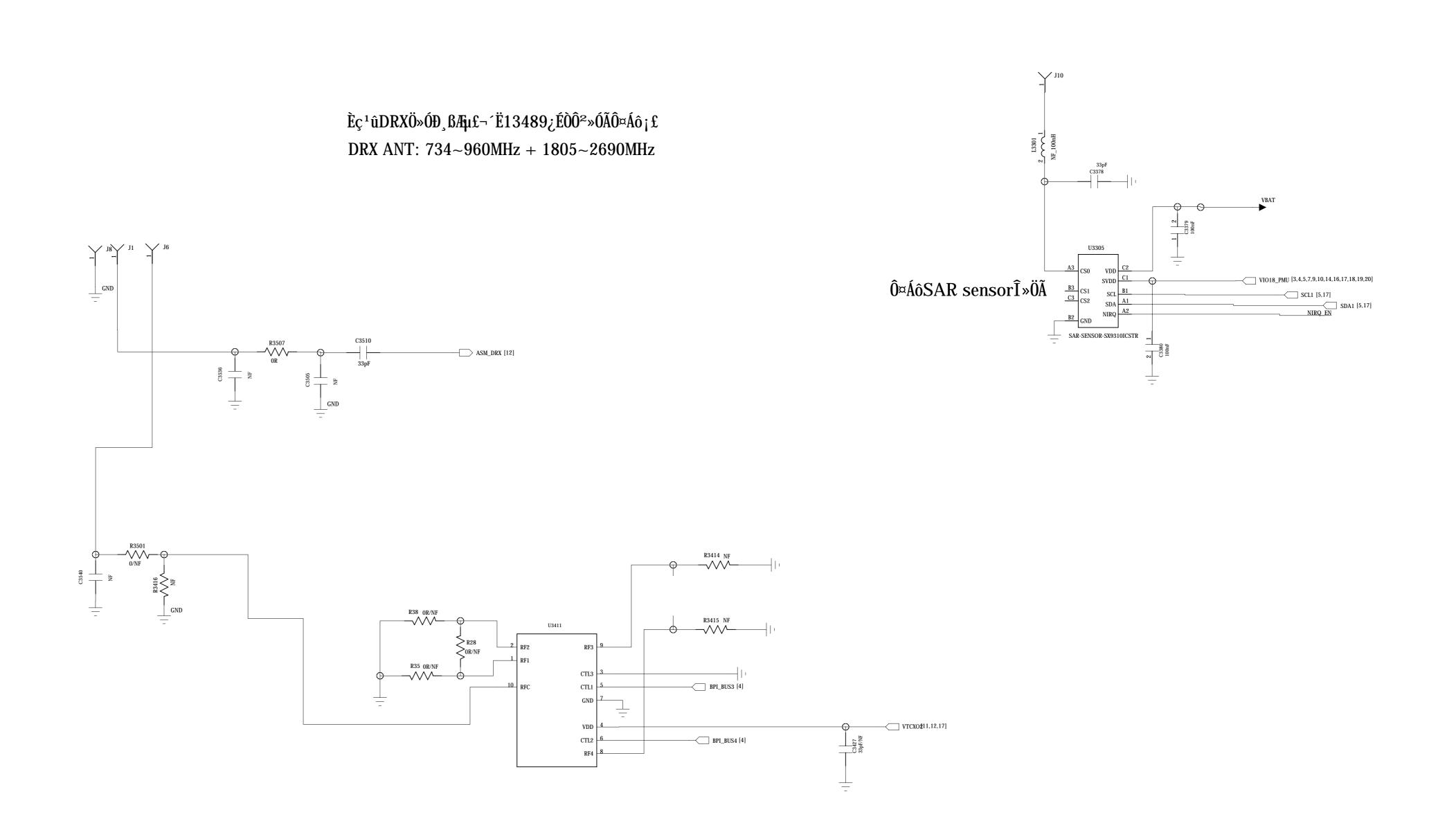






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RF_B3_DRX_MT6169_RFIN2_MB2 [9,12] [31] RF_B20B28_DRX_MT6169_RFIP2_LB2 [9,12] [31] RF_B20B28_DRX_MT6169_RFIP2_LB2 [9,12] [31] RF_B7_DRX_MT6169_RFIP2_HB2 [9,12] [31] RF_B40_DRX_MT6169_RFIP2_HB1 [9,12] [31] RF_B40_DRX_MT6169_RFIP2_HB1 [9,12] [31] RF_B41_DRX_MT6169_RFIP2_HB3 [31] RF_B41_DRX_MT6169_RFIP2_HB3 [31] RF_B1_DRX_MT6169_RFIP2_MB1 [31] RF_B5_DRX_MT6169_RFIP2_MB1 [31] RF_B5_DRX_MT6169_RFIP2_LB3 [31] RF_B5_DRX_MT6169_RFIP2_LB1 [31] RF_B5_DRX_MT6169_RFIP2_LB1 [31] RF_B5_DRX_MT6169_RFIP2_LB1 [31] RF_B8_DRX_MT6169_RFIP2_LB1 [31] RF_B8_DRX_MT6169_RFIP2_LB1 [9] BPL_BUS9 [4,12] [99] BPL_BUS10 [4,12]	RF_B3_DRX_MT6169_RFIN2_MB2	RF_B3_DRX_MT6169_RFIN2_MB2	RF_B3_DRX_MT6169_RFIN2_MB2		
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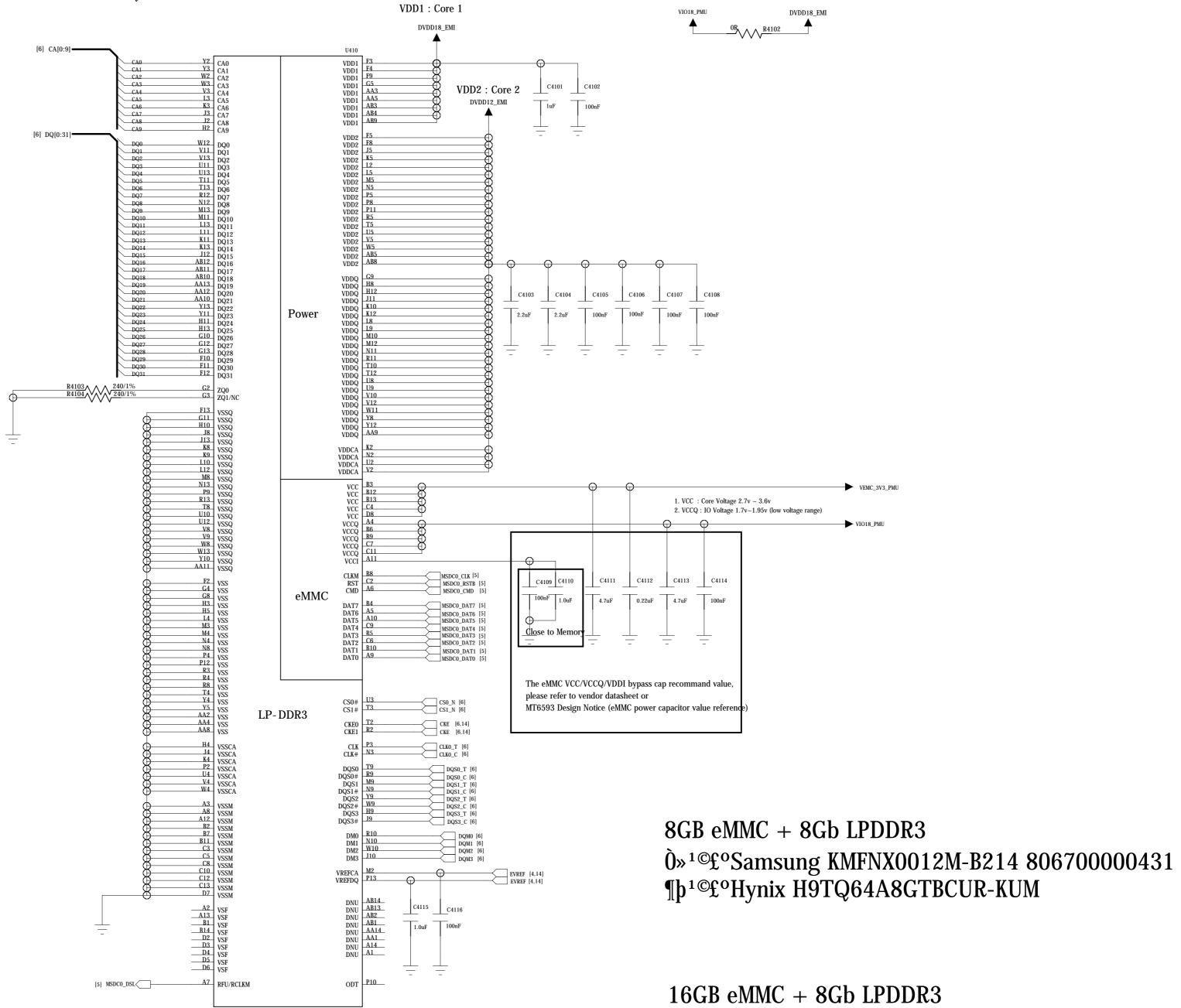
r-----1 Connect to AP DQ[0..31] CA[0..9] CA[0..9] CS1_N CS1_N CKE DQM0 DQM0 DQS0_C DQS0_C DQS1_C DQS1_C DQS0_T DQS0_T DQS1_T DQS1_T DQS2_T DQS2_T DQS3_T CLKO_T CLKO_T CLKO_C CLKO_C VREF_CA VREF_CA VREF_DQ VREF_DQ MSDC0_RSTB MSDC0_RSTB MSDC0_CMD MSDC0_CLK MSDC0_CLK MSDC0_DSL MSDC0_DSL MSDC0_DAT0 MSDC0_DAT1 MSDC0_DAT2 MSDC0_DAT2 MSDC0_DAT3 MSDC0_DAT3 MSDC0_DAT4 MSDC0_DAT4 MSDC0_DAT6 MSDC0_DAT7 MSDC0_DAT7

	Power I/F	
VI	IO18_PMU	VIO18_PMU
VI	EMC_3V3_PMU	VEMC_3V3_PMU
D	VDD12_EMI	DVDD12_EMI

eMMC+LPDDR3

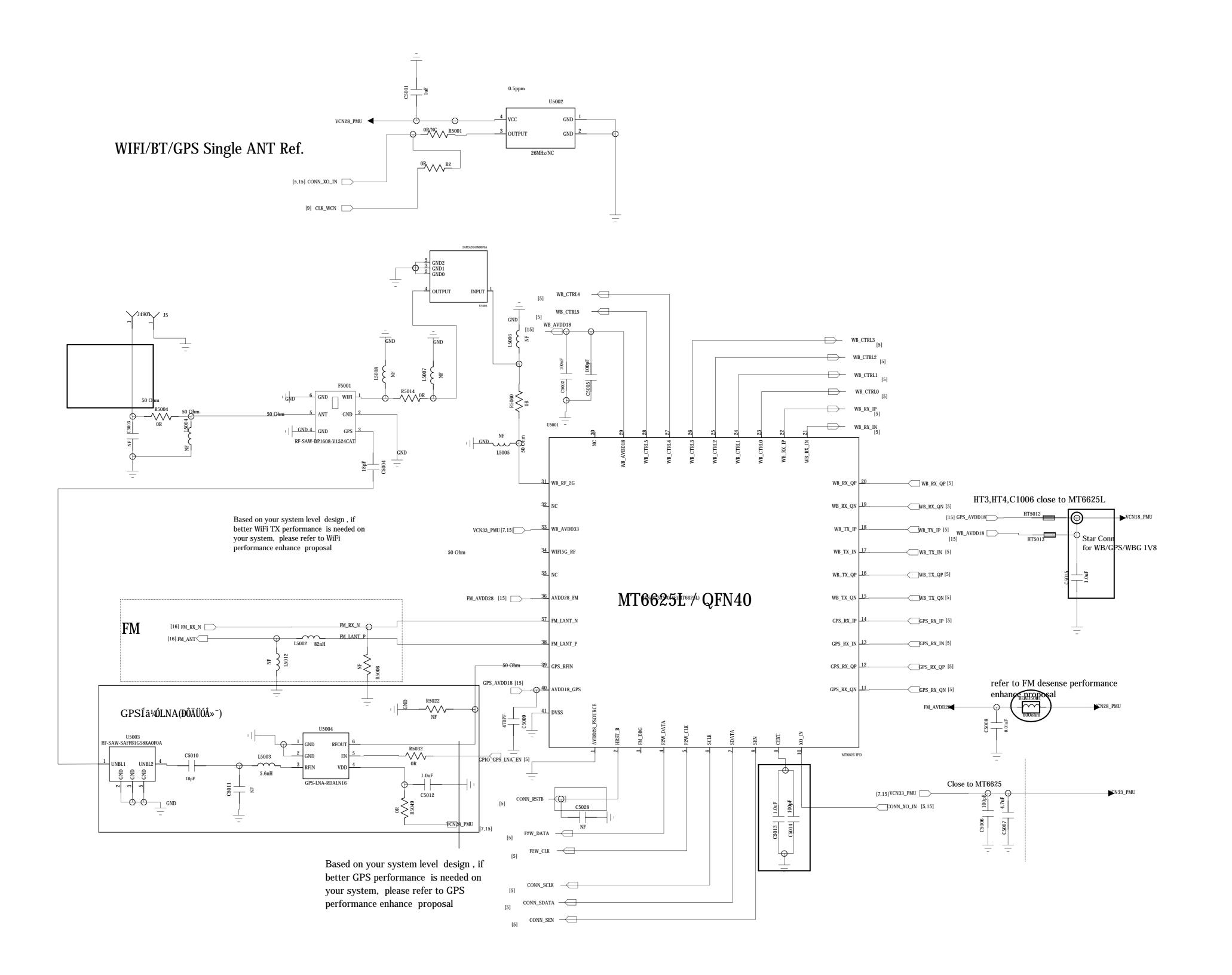
221 Ball, 0.5mm pitch

VDD1=1.8V VDD2=1.20V VDDCA=1.2V VDDQ = 1.20V

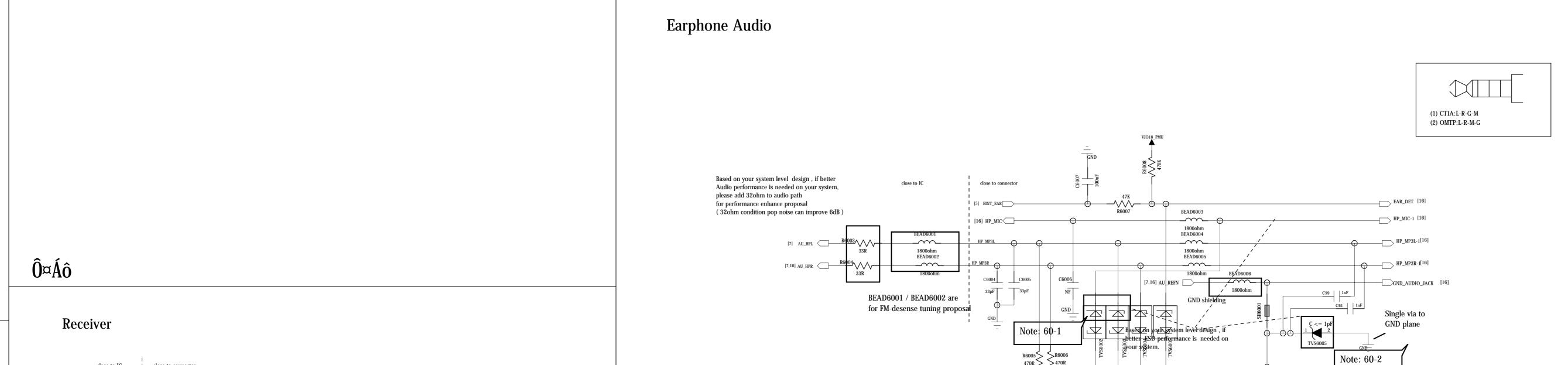


Ò»¹©£°Samsung KMFE10012M-B214 80670000291 ¶þ¹©£ºHynix H9TQ17A8GTACUR-KUM

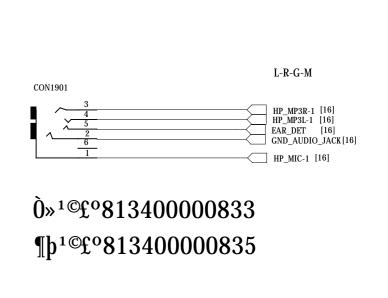
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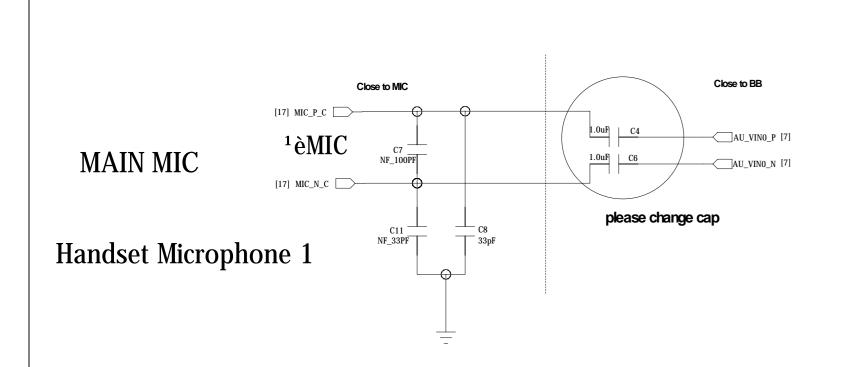


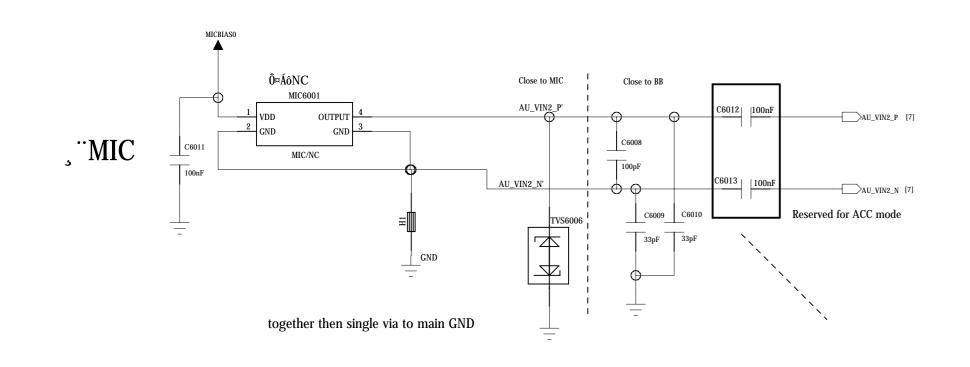
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REC401
Receiver Pad





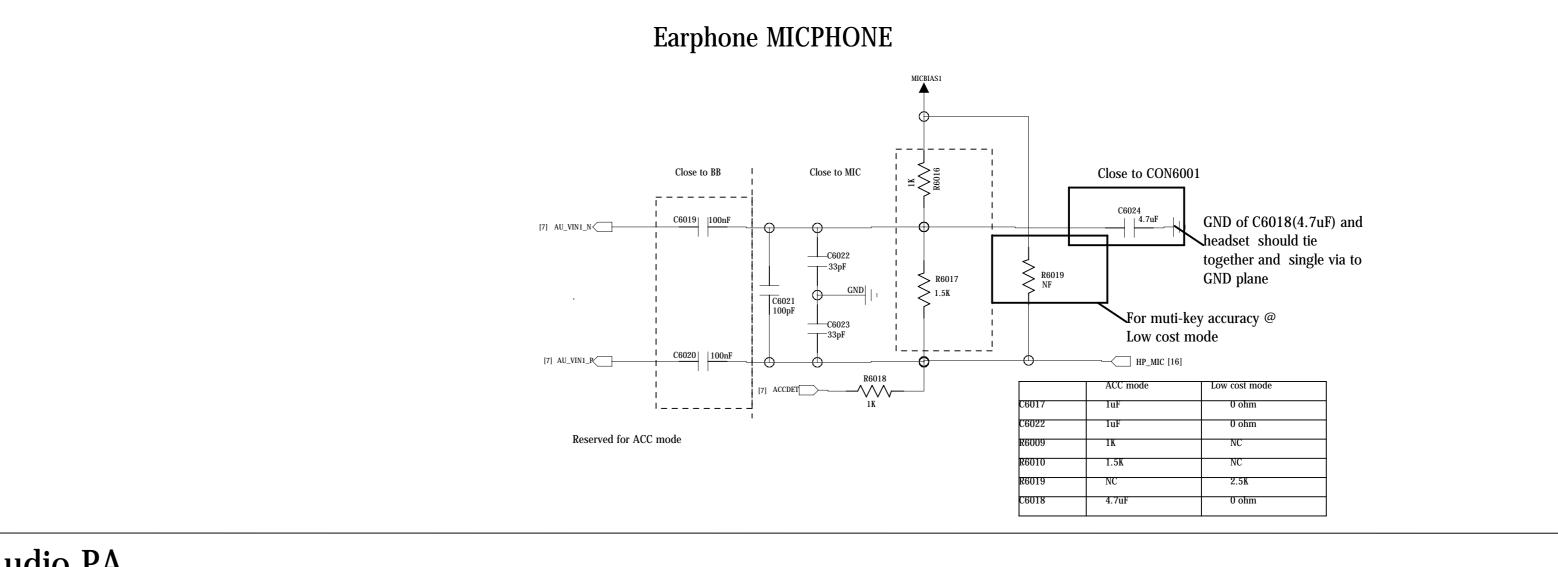


Schematic design notice of "60_PERI_AUDIO_IO" page.

Note 60-1: The equivalent capacitance of audio and speech ESD protection device must be <=330pF. choose bi-directional device only

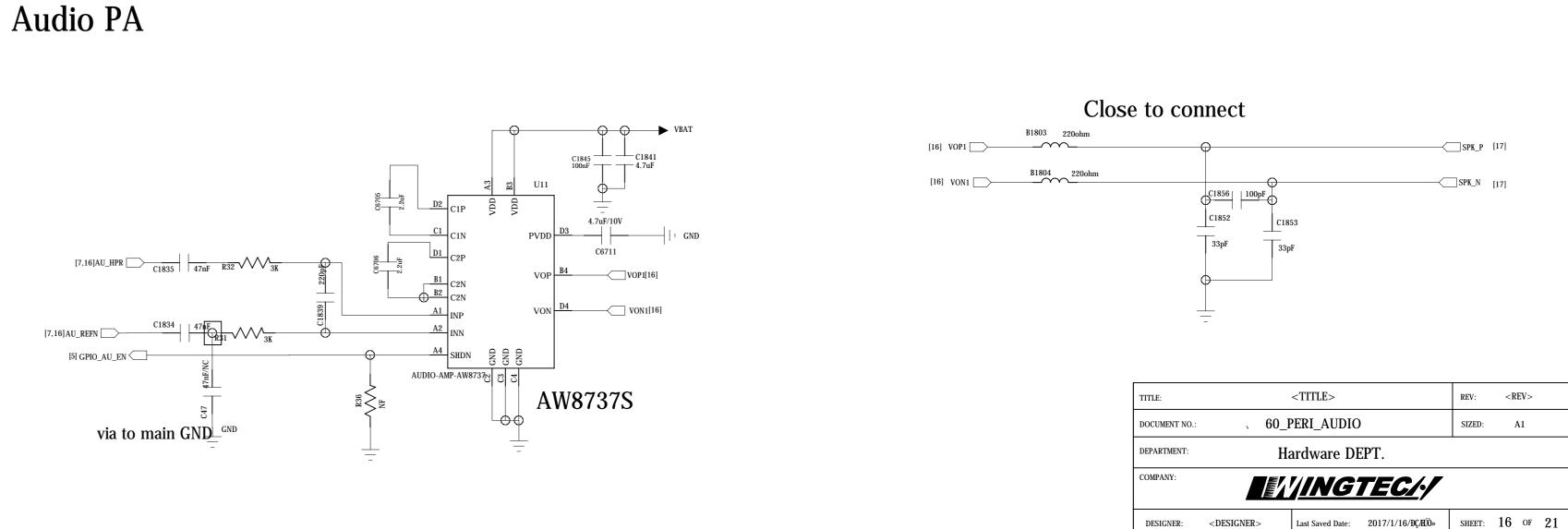
Note 60-2: The equivalent capacitance of FM ANT. ESD protection device must be <=1pF.

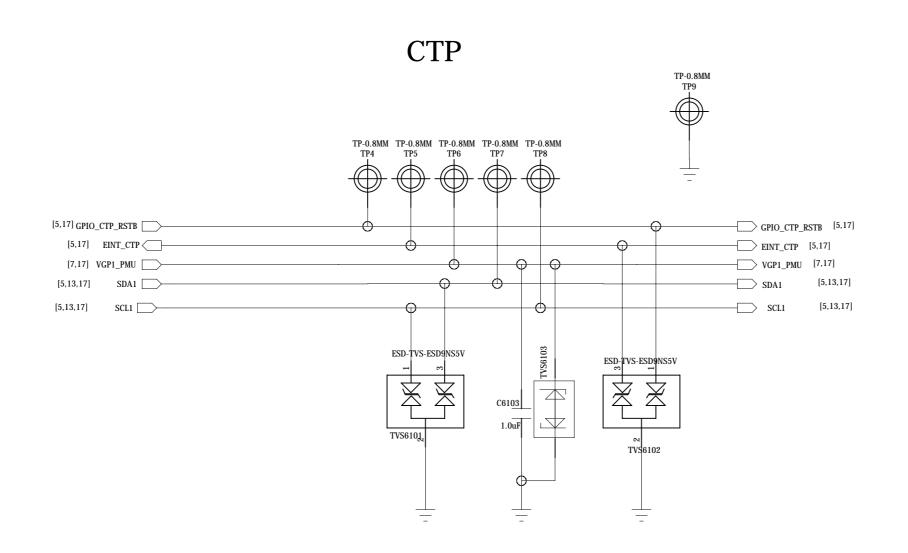
Note 60-3: TVS Stand off voltage for speaker should >=5V



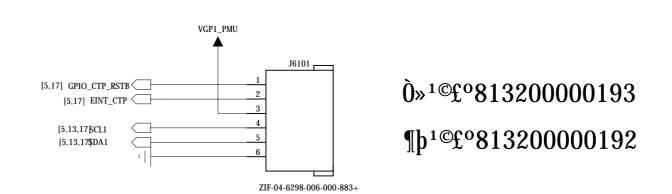
L / LQW18ANR10G00

FM_RX_N [15]

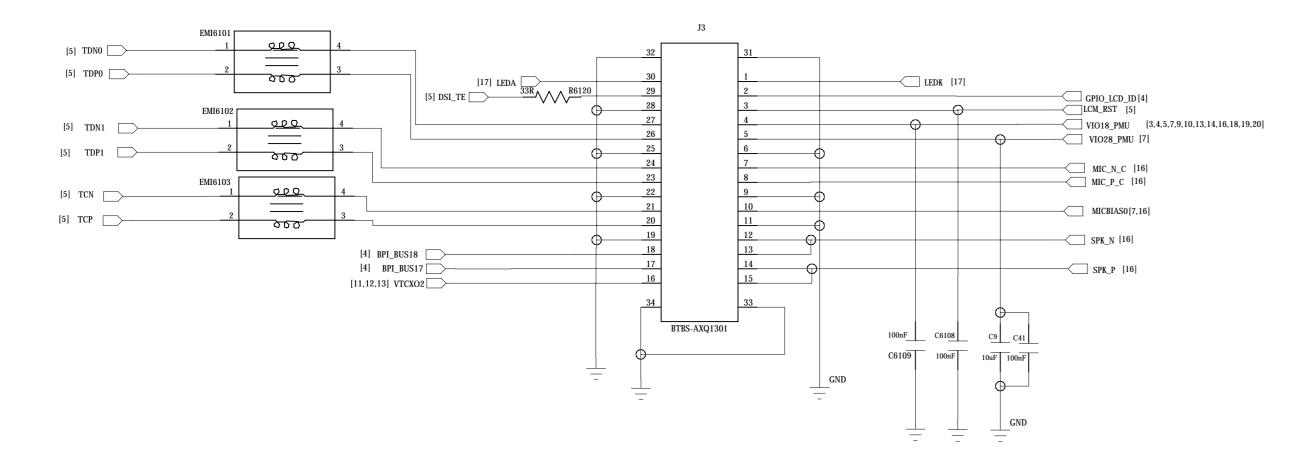


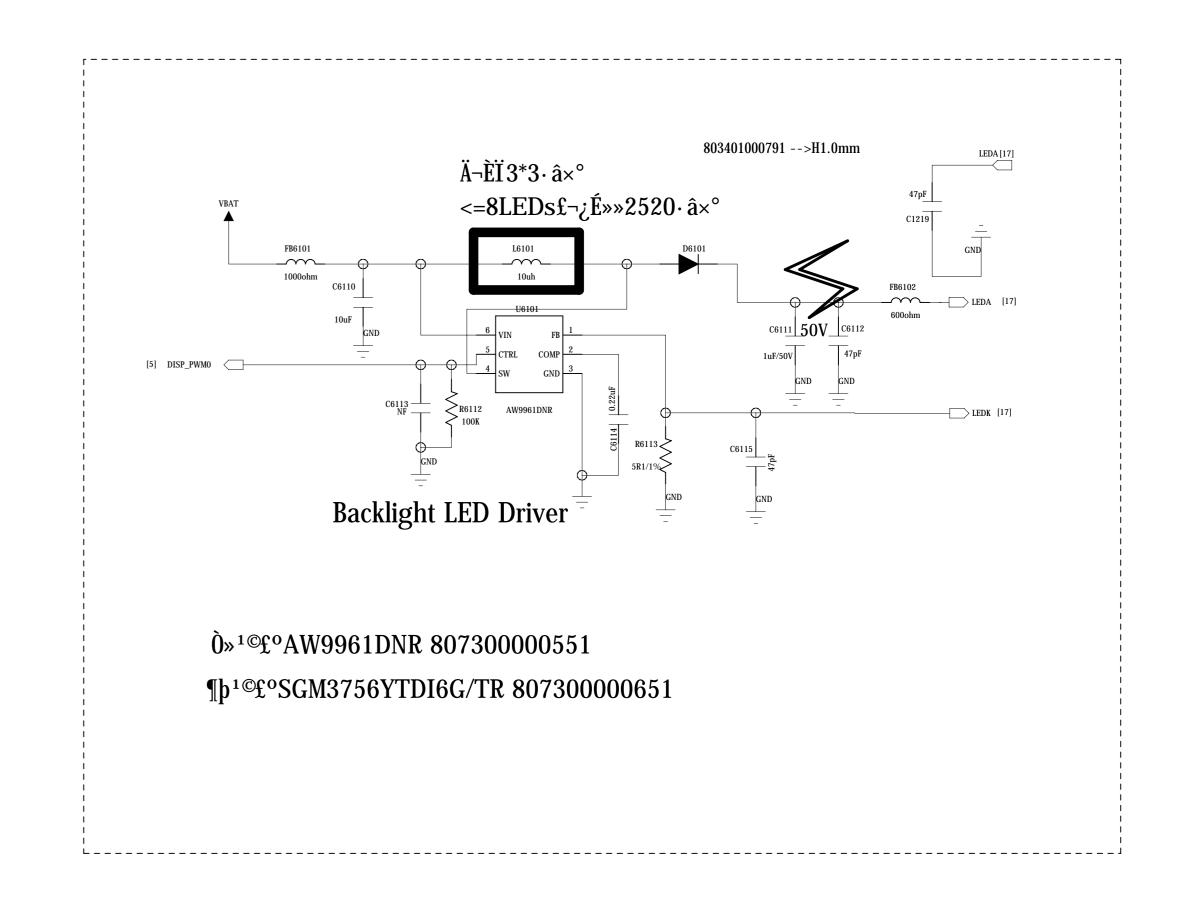


CTP Connector



Main LCM





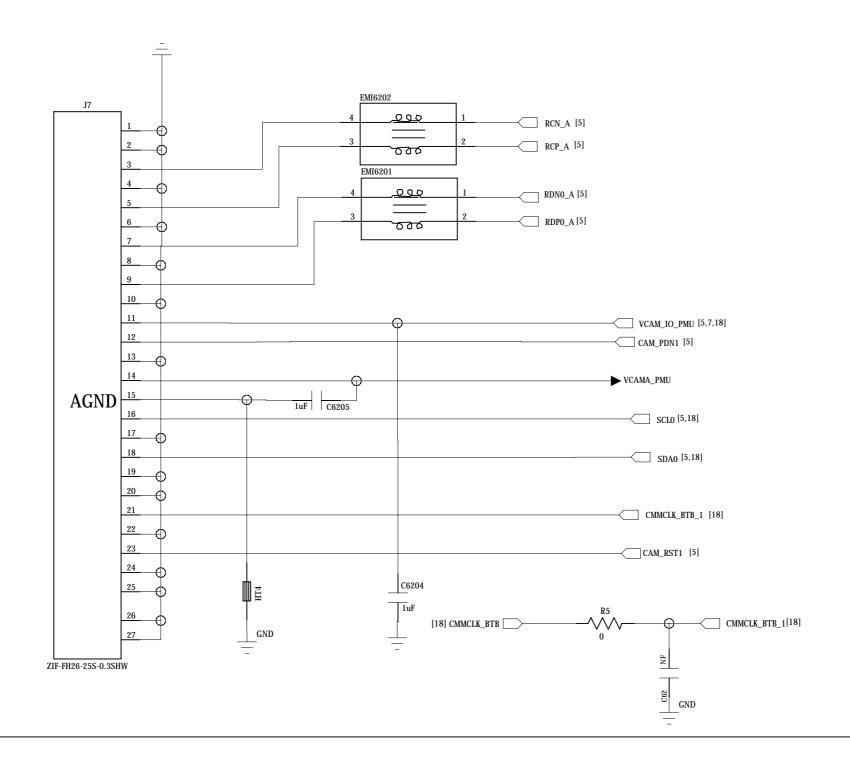
Schematic design notice of "61_PERI_LCD_CTP" page. GT1151 I2C address: 0X5D (Write:0xBA, Read:0xBB)

or 0x14 (Write:0x28, Read:0x29)

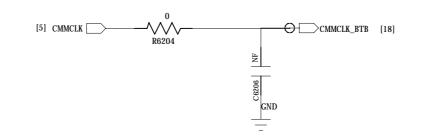
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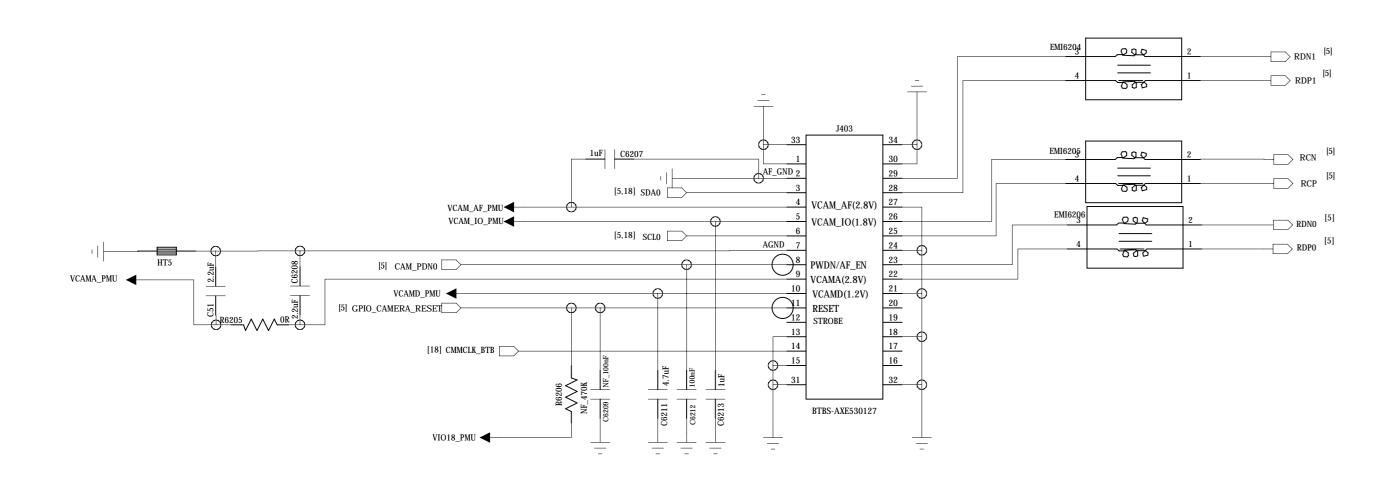
Front Camera 2M_FF

DOVDD=1.8V AVDD=2.8V

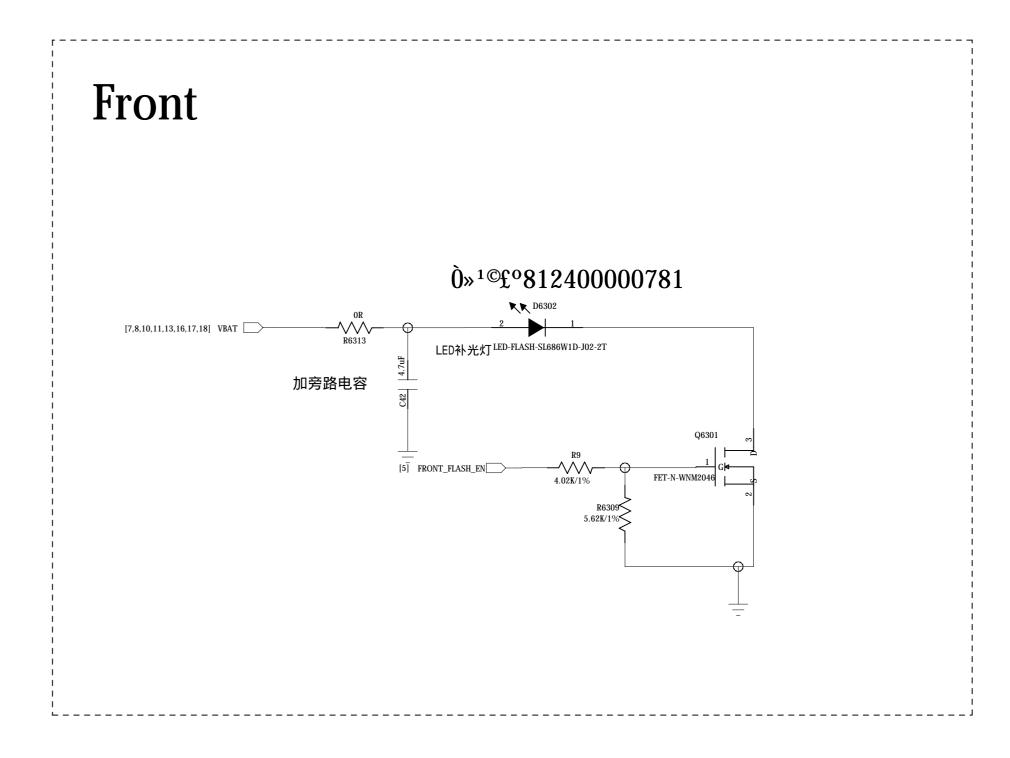


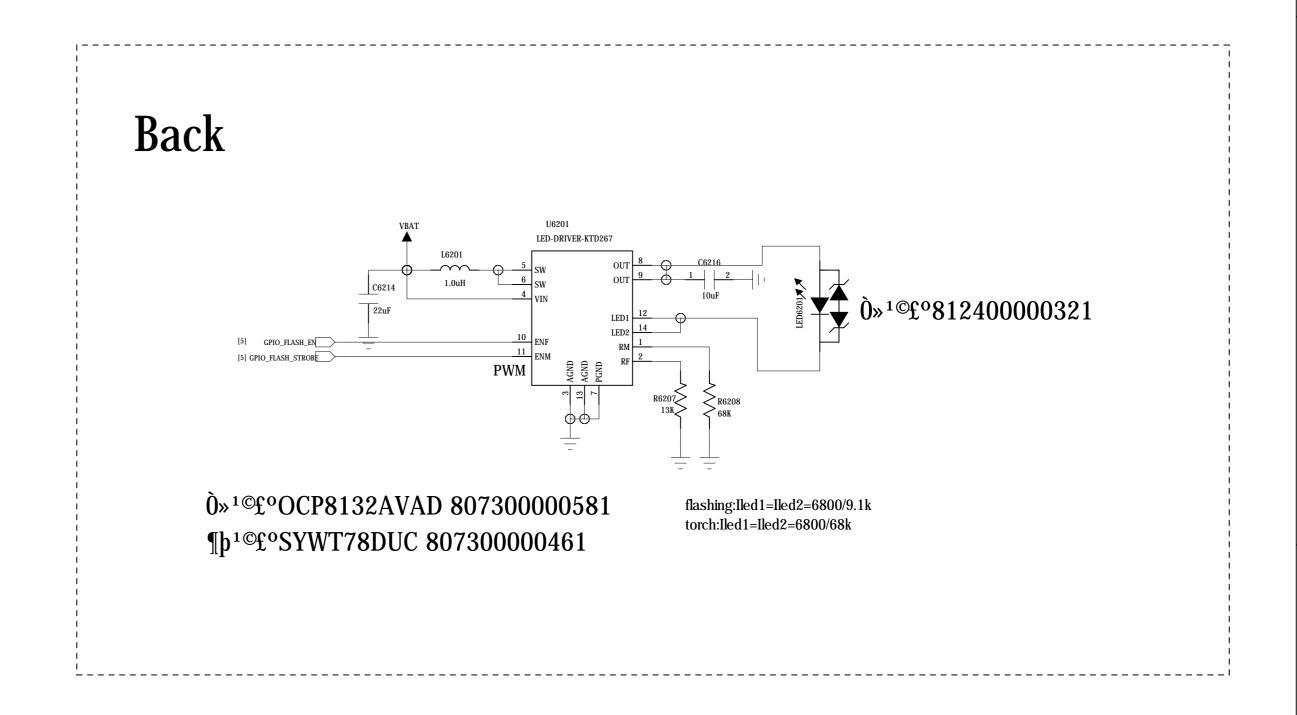
Main Camera 5M_AF





FLASH LED





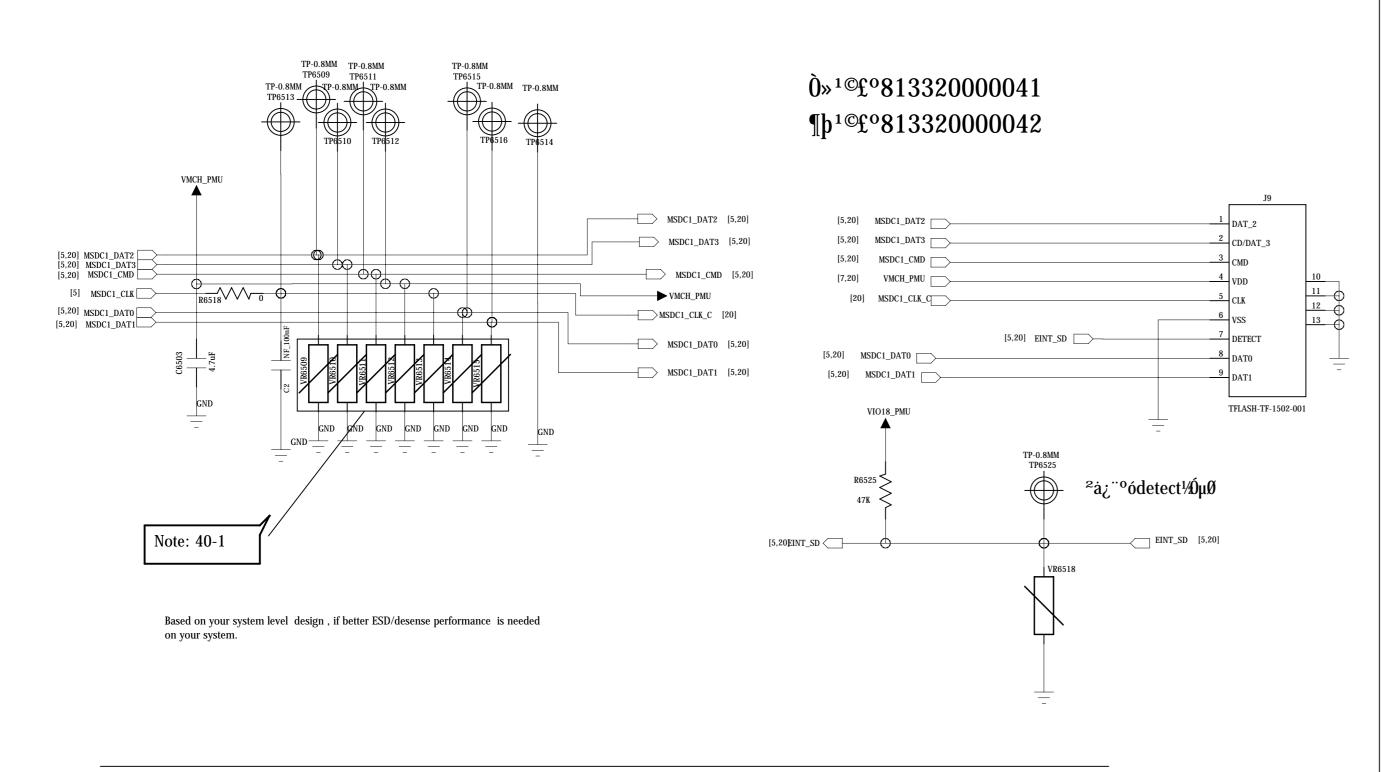
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M-Sensor	G-Sensor			
		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	SDA2 [5] SCL2 [5] VIO18_PMU [3,4,5,7,9,10,13,14,16,17,18,19,20] EINT_ACC [5]	
		BMA: R6323 0 R6324 NF BMC156: R6323 0 R6324 0 KXTJ2-1009: R6323 NF R6324 0 Ô» 1 © £ 0 8211		
Accerometer				
	ALS+PS+IR			
Thermistor				
NTC6301 close to BB , and located in the same layer (can refer to thermal design notice) NTC6301 NTC6301 NTC6301 100K 1% ENSOR-TEM	-1%-0402			
Thermistor / To sense board level ten	perature		TITLE: <title> DOCUMENT NO.: . 63_PERI_SENSORS DEPARTMENT: Hardware DEPT. COMPANY: Last Saved Date: 2017/1/16/ÞÇÆÍŮ»</td><td></td></tr></tbody></table></title>	

Note 40-1: The equivalent capacitance of MSDC ESD protection device must be <=10pF.

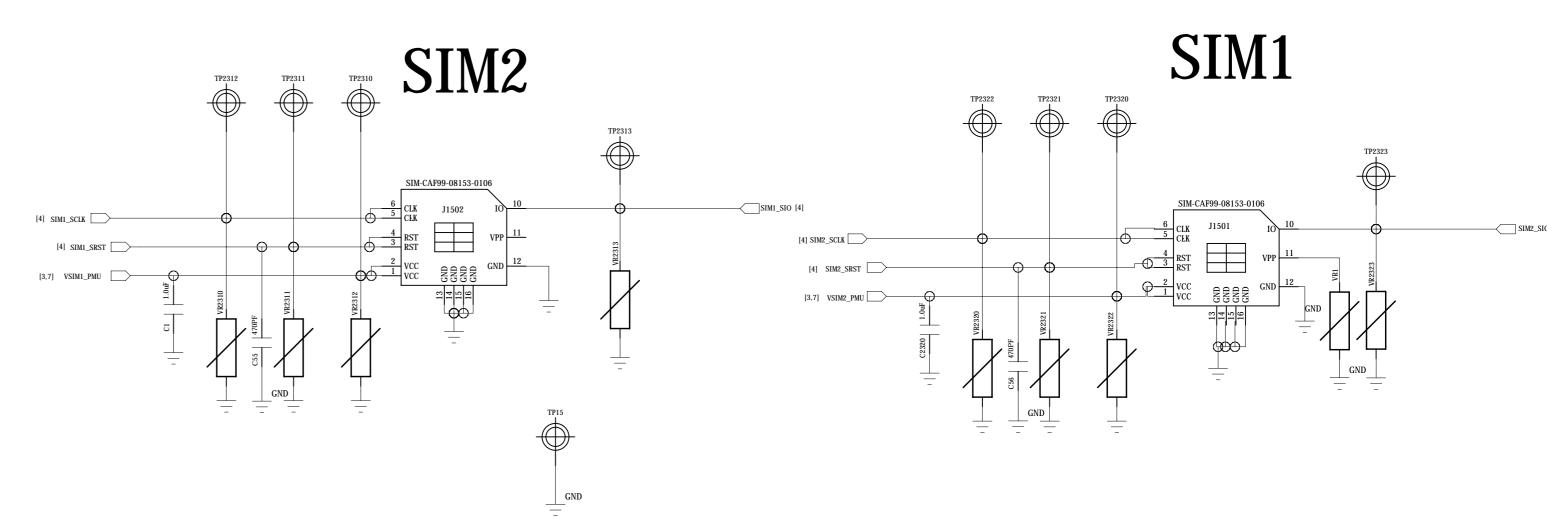
But for NFC app. equivalent capacitance of MSDC_NFC_SWPIO and MSDC_NFC_VCCSWP should <=0.5pF.

Schematic design notice of "40_MEMORY_SD Card" page.



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 $$$p^1$$ e^813310000222$



REV: $\langle REV \rangle$

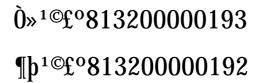
. 64_PERI_SD/SIM/KEY

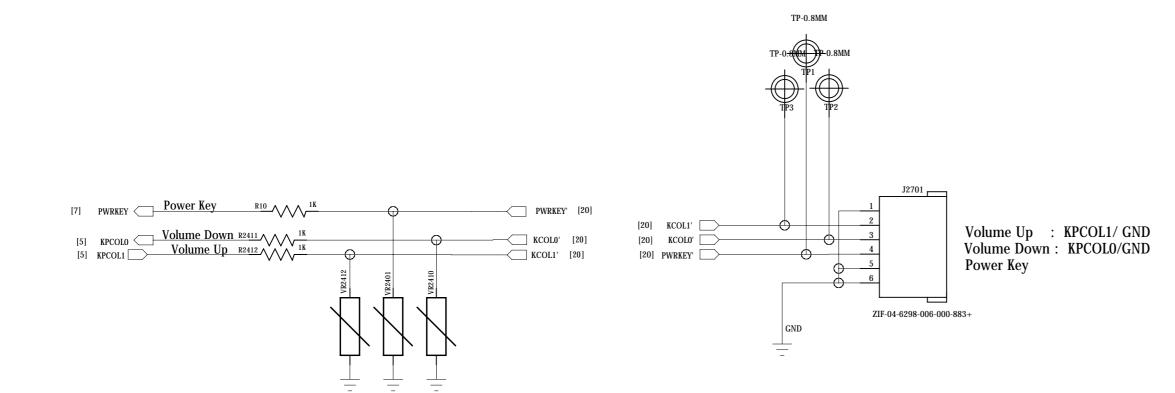
Hardware DEPT.

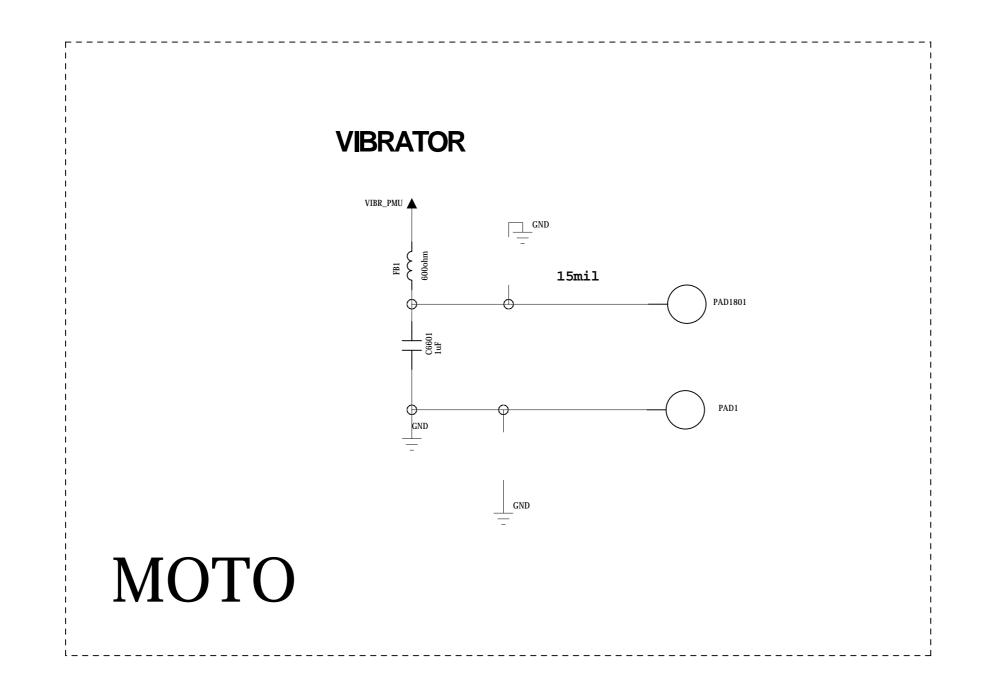
INGTEC!

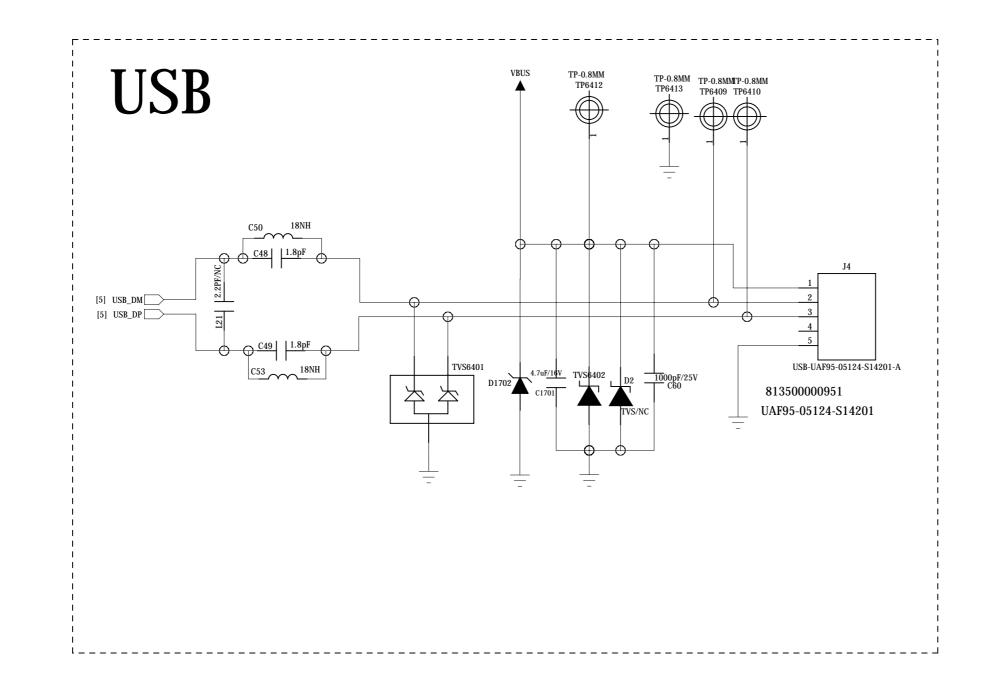
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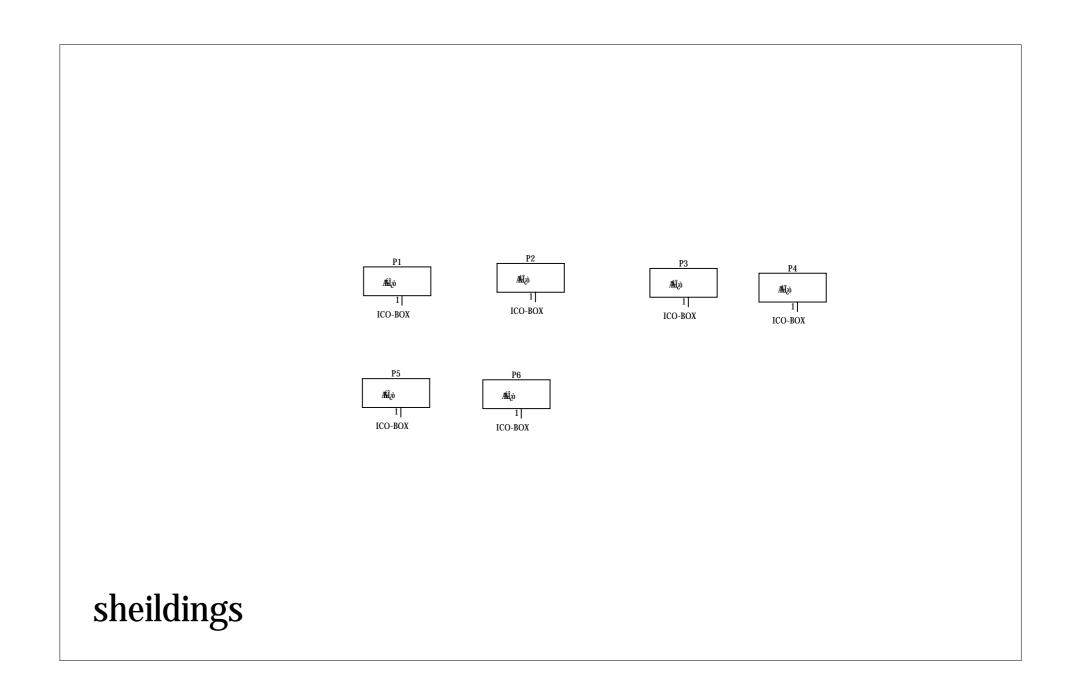
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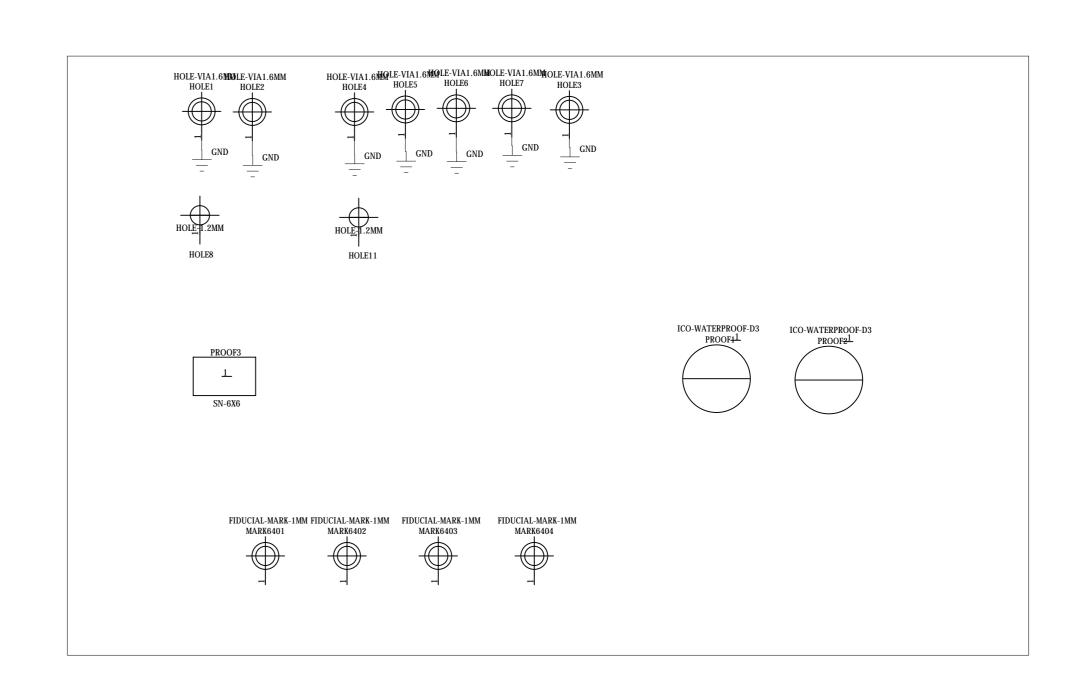












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