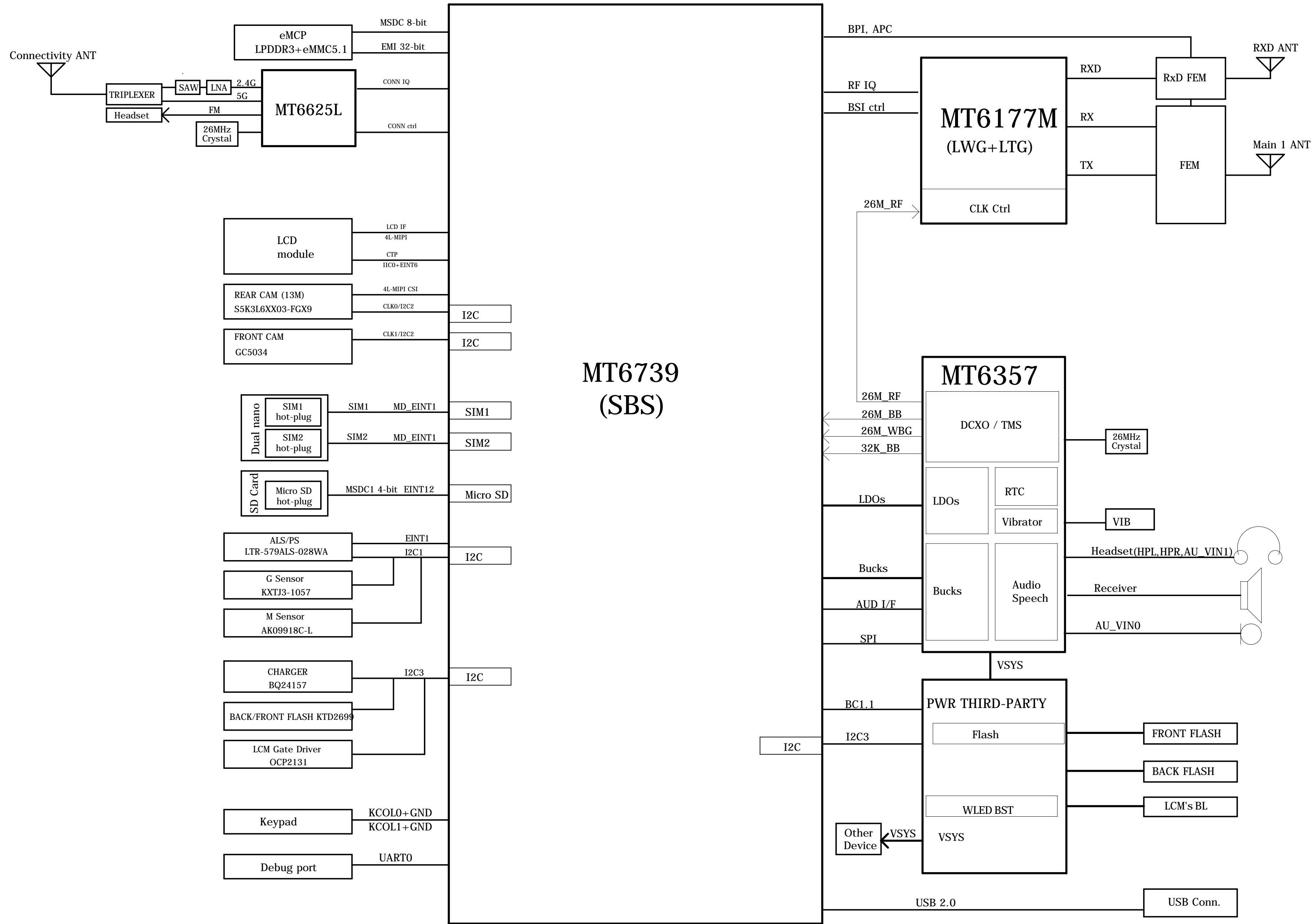


BLOCK_DIAGRAM

Project : MT6739

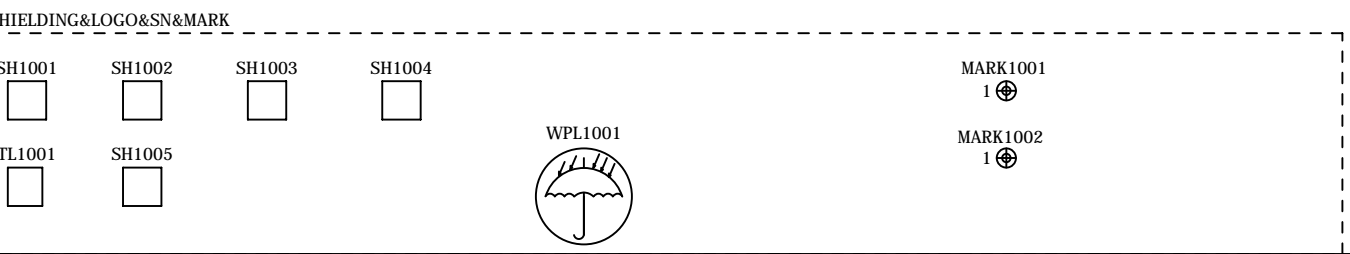
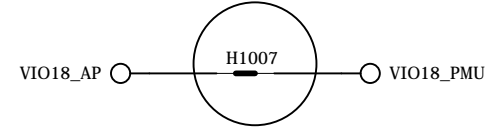
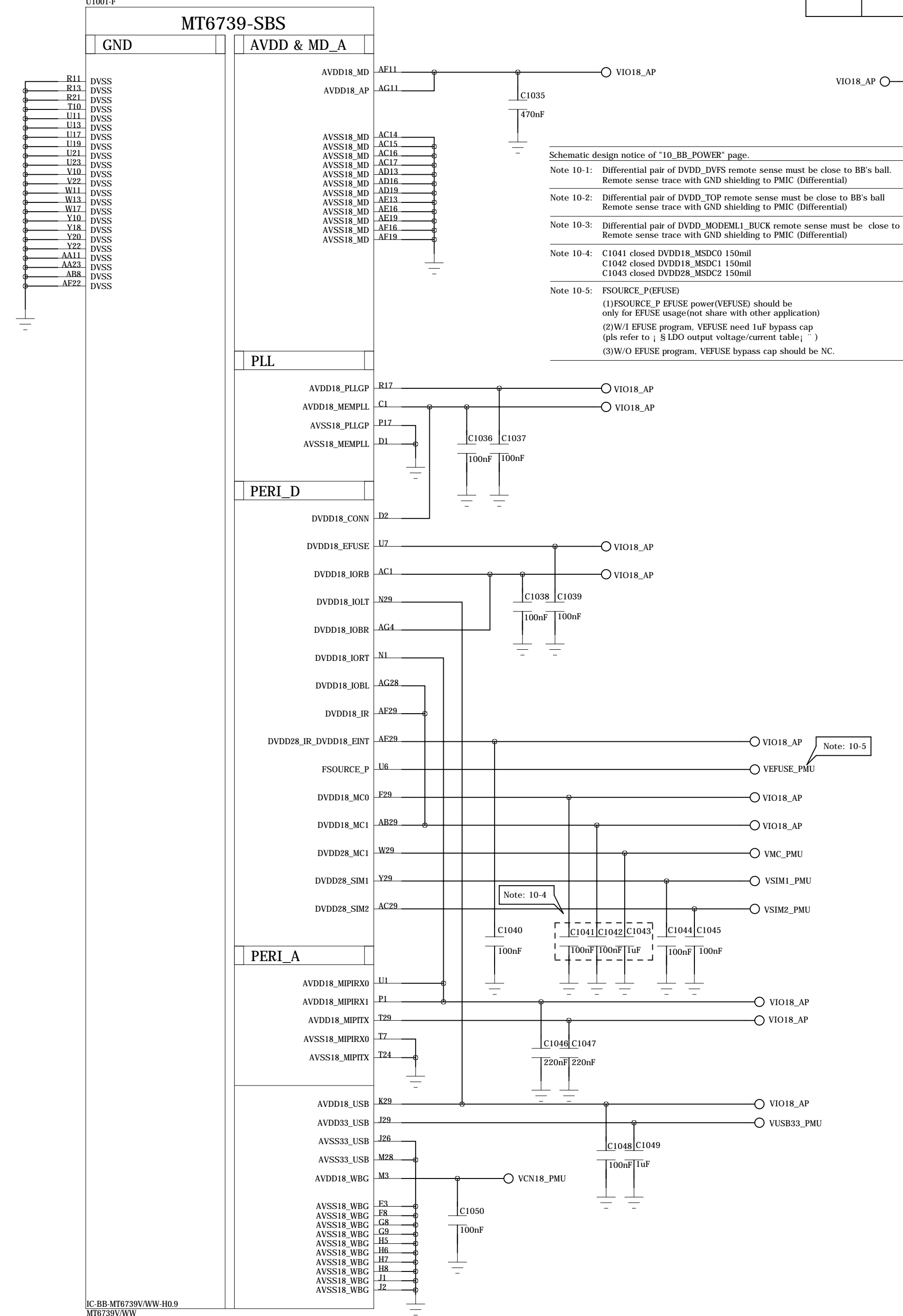
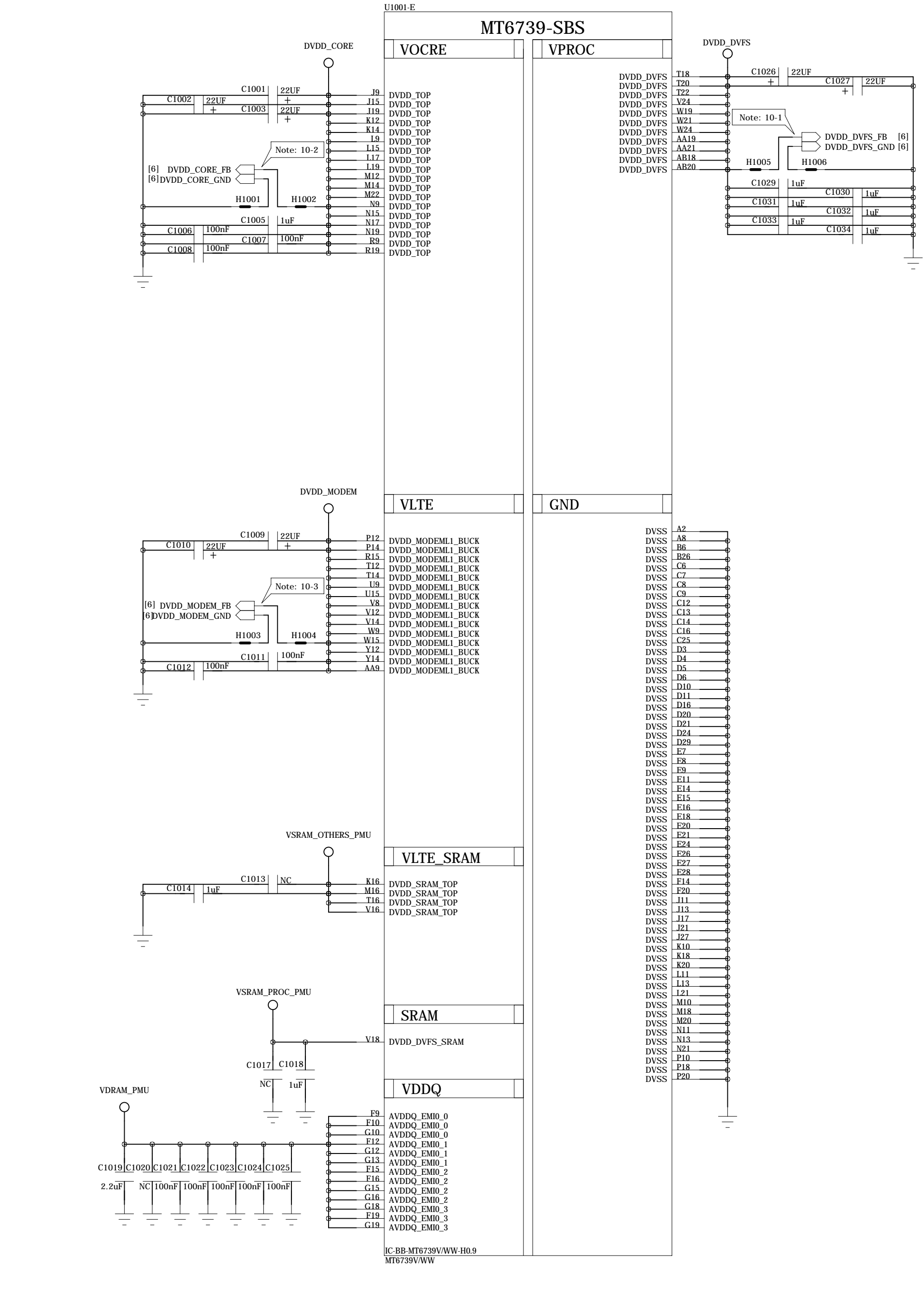
REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



COMPANY: TRANSSION HOLDINGS				MODEL: H399		Modified Date: 2018/4/28	
DRAWN	PAN	DATED	20180329	TITLE: 00_BLOCK_DIAGRAM		VERSION: V0.1	SHEET: 1 OF 21
CHECKED	<CHECKED>	DATED	< >	Confidentiality	CONFIDENTIAL		

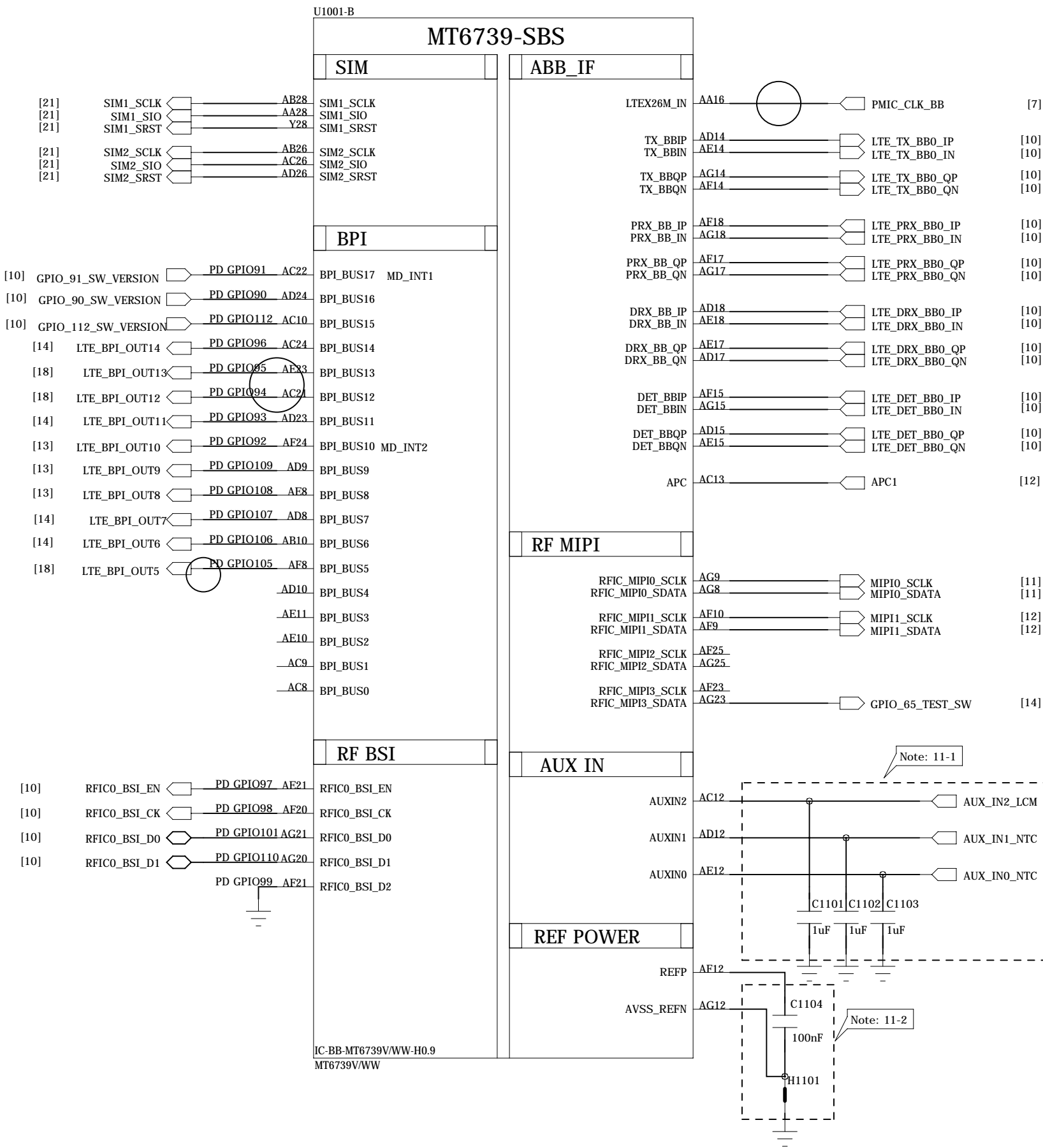
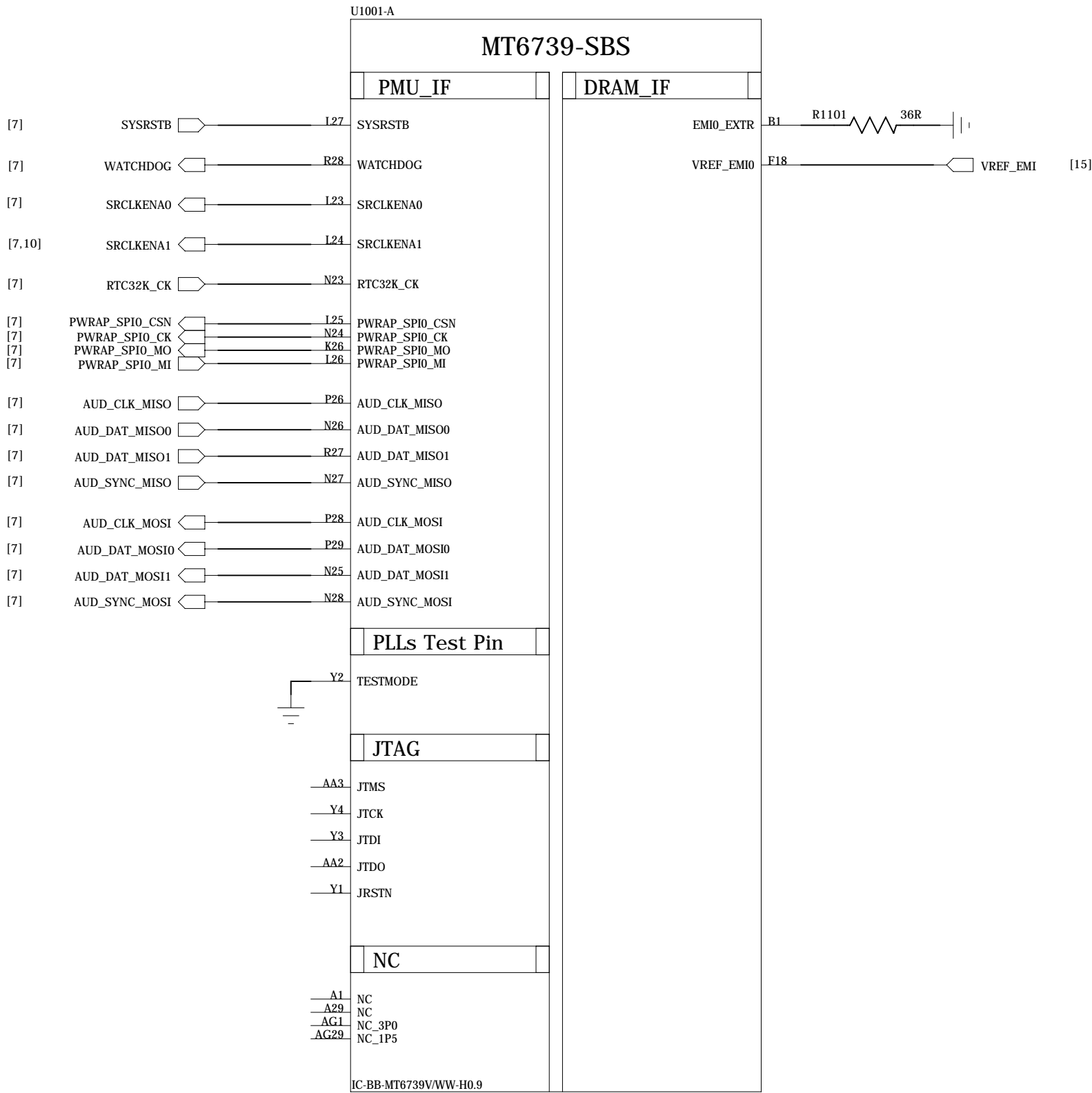
BB_POWER

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



COMPANY: TRANSSION HOLDINGS				MODEL: H399		Modified Date: 2018/4/28	
DRAWN	PAN	DATED	20180329	TITLE: 10_BB_POWER		VERSION: V0.1	SHEET: 2 OF 21
CHECKED	<CHECKED>	DATED	< >	Confidentiality	CONFIDENTIAL		

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



PWRAP_SPI0_CSN and AUD_DAT_MOSI are JTAG feature in bootstrap.

PWRAP_SPI0_CSN	AUD_DAT_MOSI0	Mode	Note
HI	LO	Default	N/A
HI	HI	Aux Func. trap_MD_JTAG_AP_JTAG	MD JTAG = CMDATO/CMDATI/CMPCCLK/CMMCLK/CMMCLK1
LO	LO	x	N/A
LO	HI	x	N/A

ANT_SEL2 and AUD_DAT_MISO1 is storage booting feature in bootstrap.

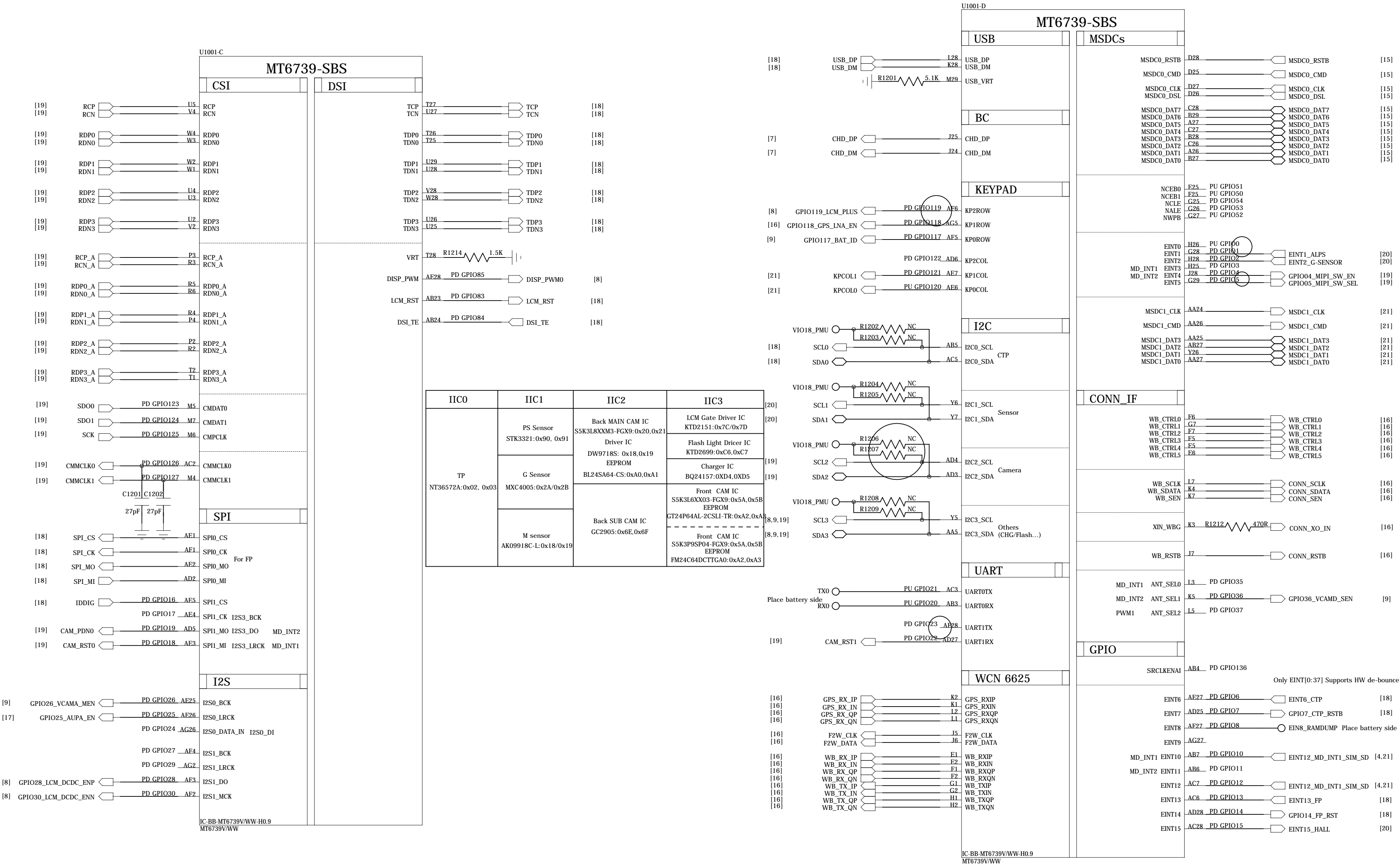
ANT_SEL2	AUD_DAT_MISO1	Storage Booting
HI	LO	TLC Boot
HI	HI	SLC Boot
LO	LO	eMMC Boot
LO	HI	N/A

Schematic design notice of "11_BB_I" page.

Note 11-1: 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.

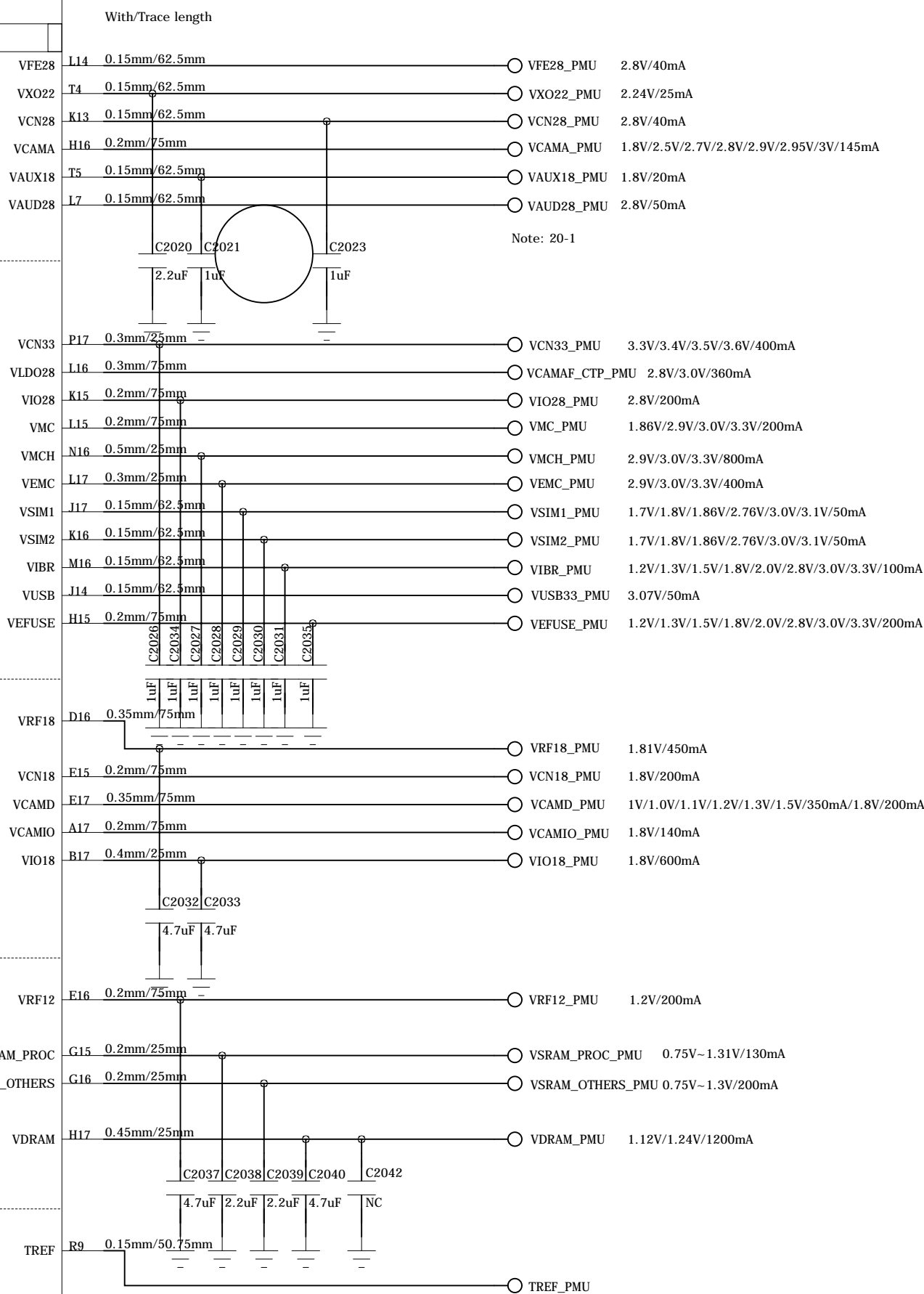
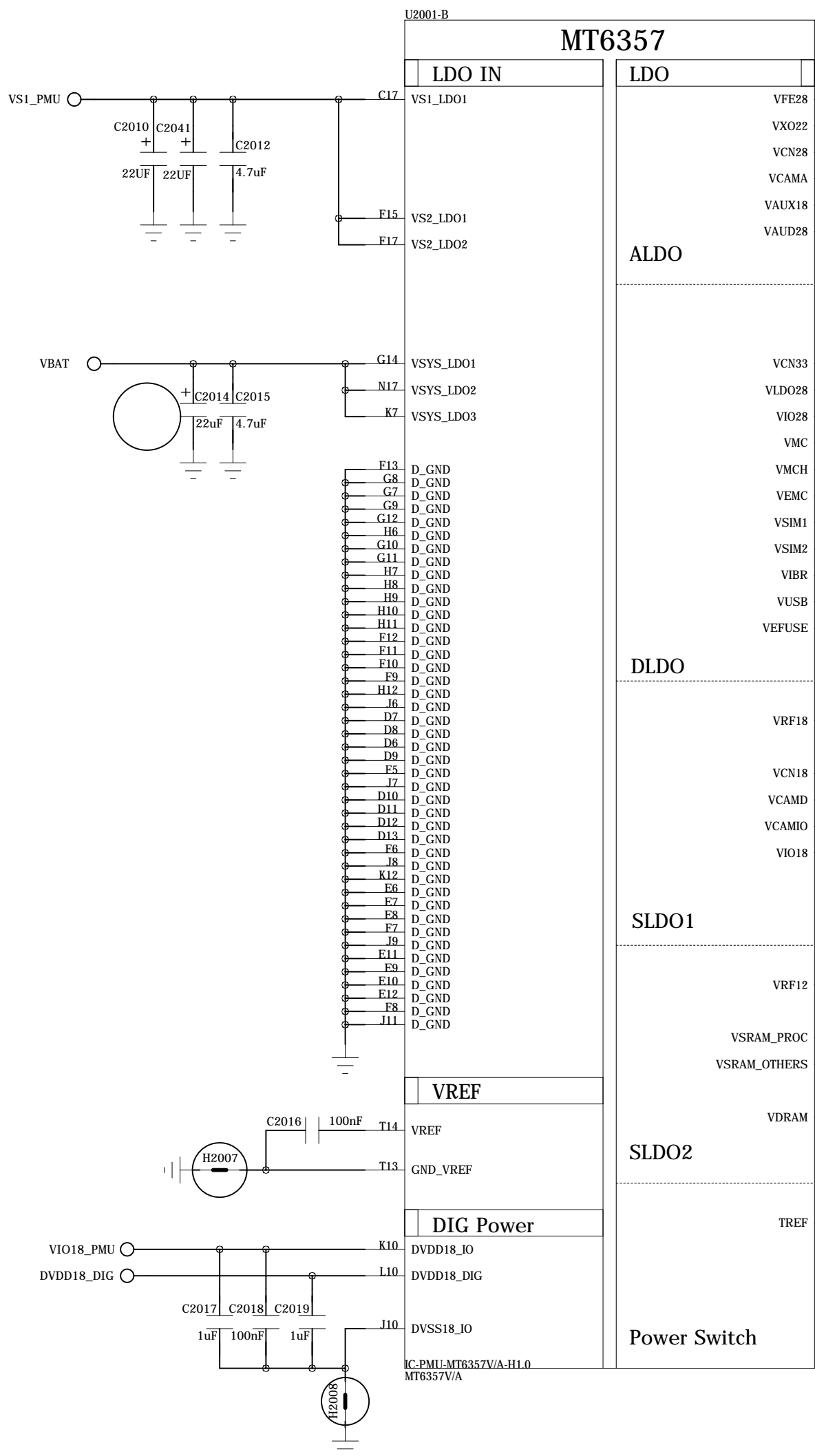
Note 11-2: The de-coupling cap. for REFP (AF12 ball) have to be placed as close to BB as possible.

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

PMU_LDO



Note 20-1: If these power trace can meet LDO layout constraint, these CAP can be NC or removed
Please refer to MT6357 design notice.

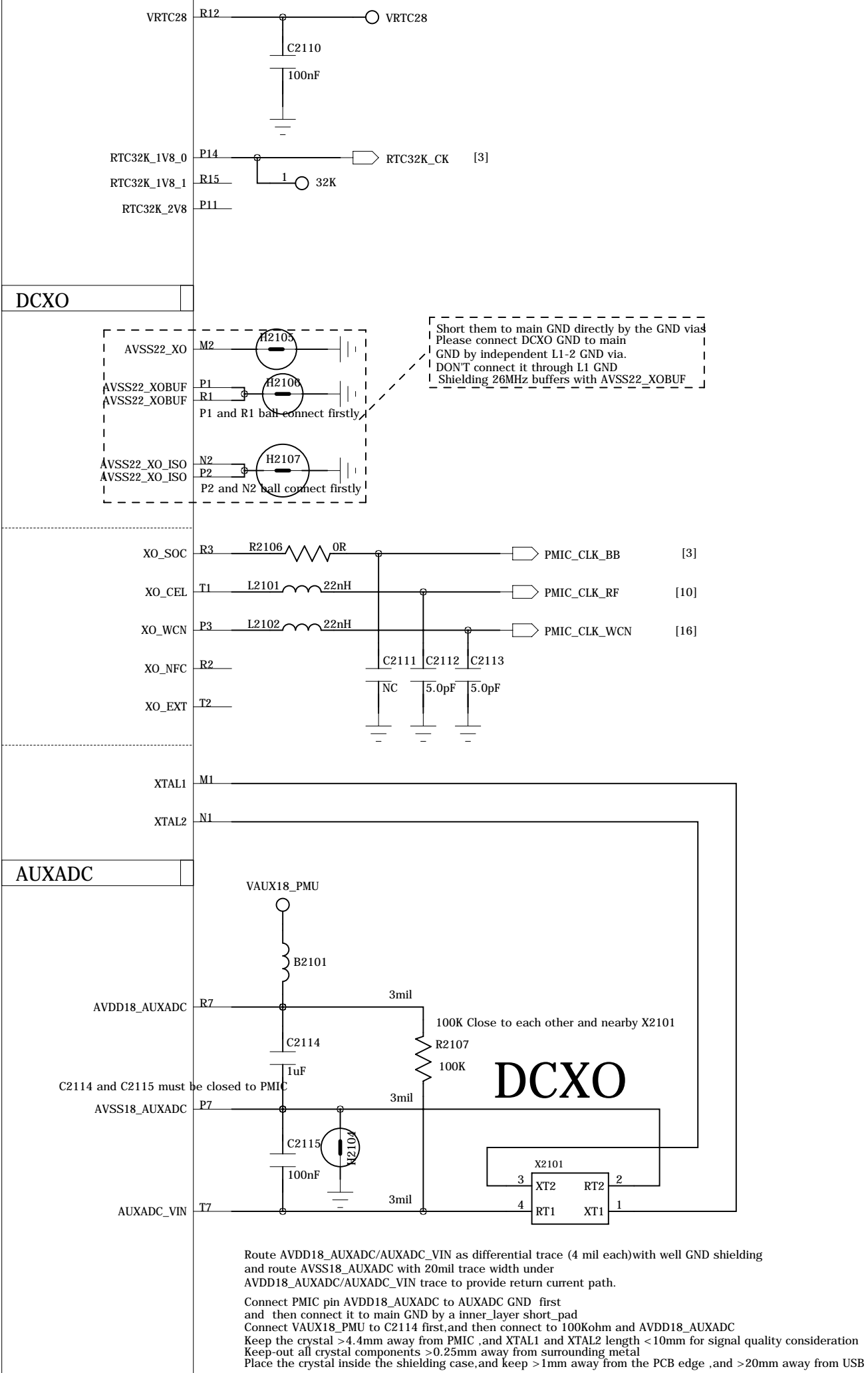
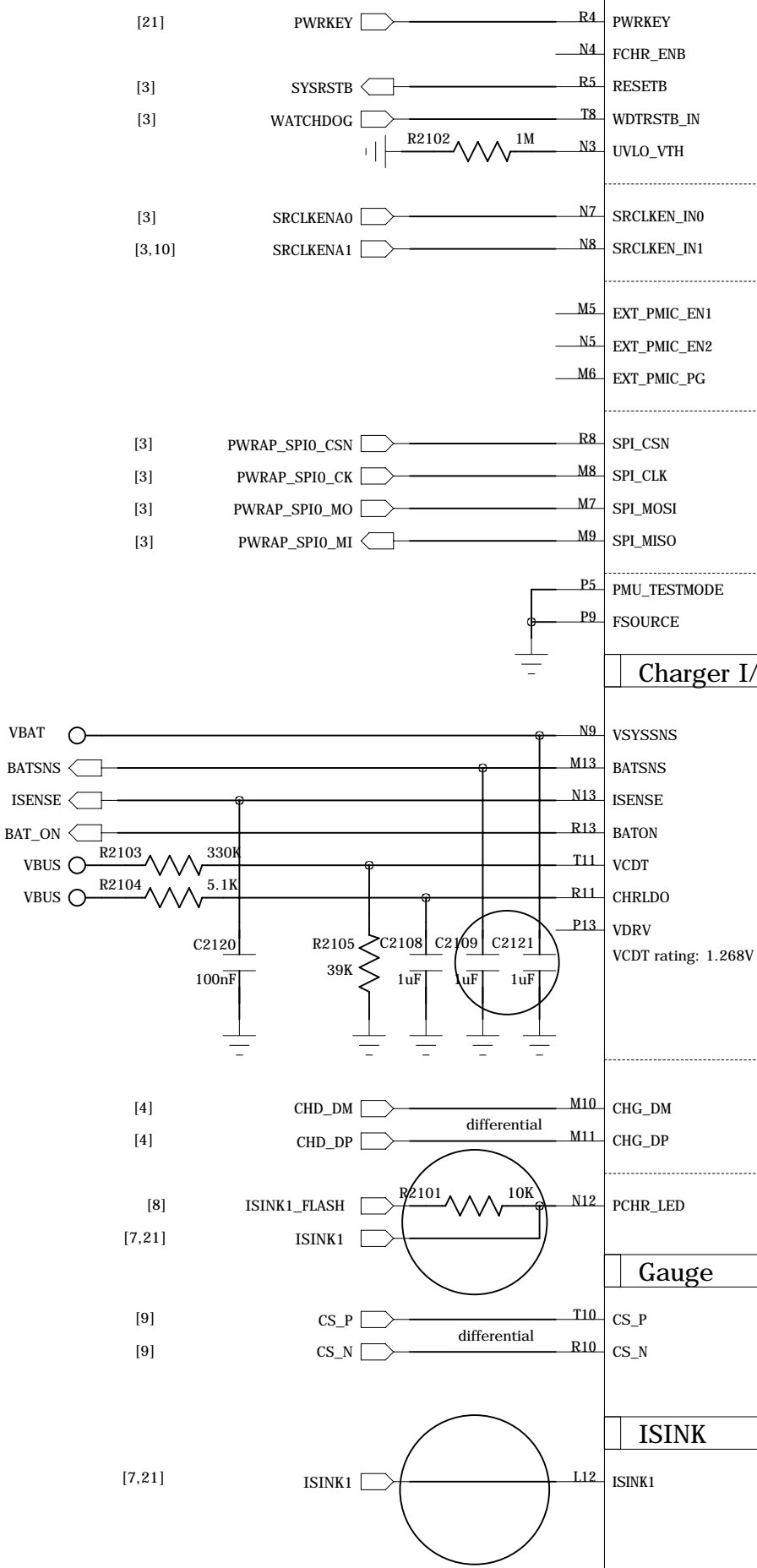
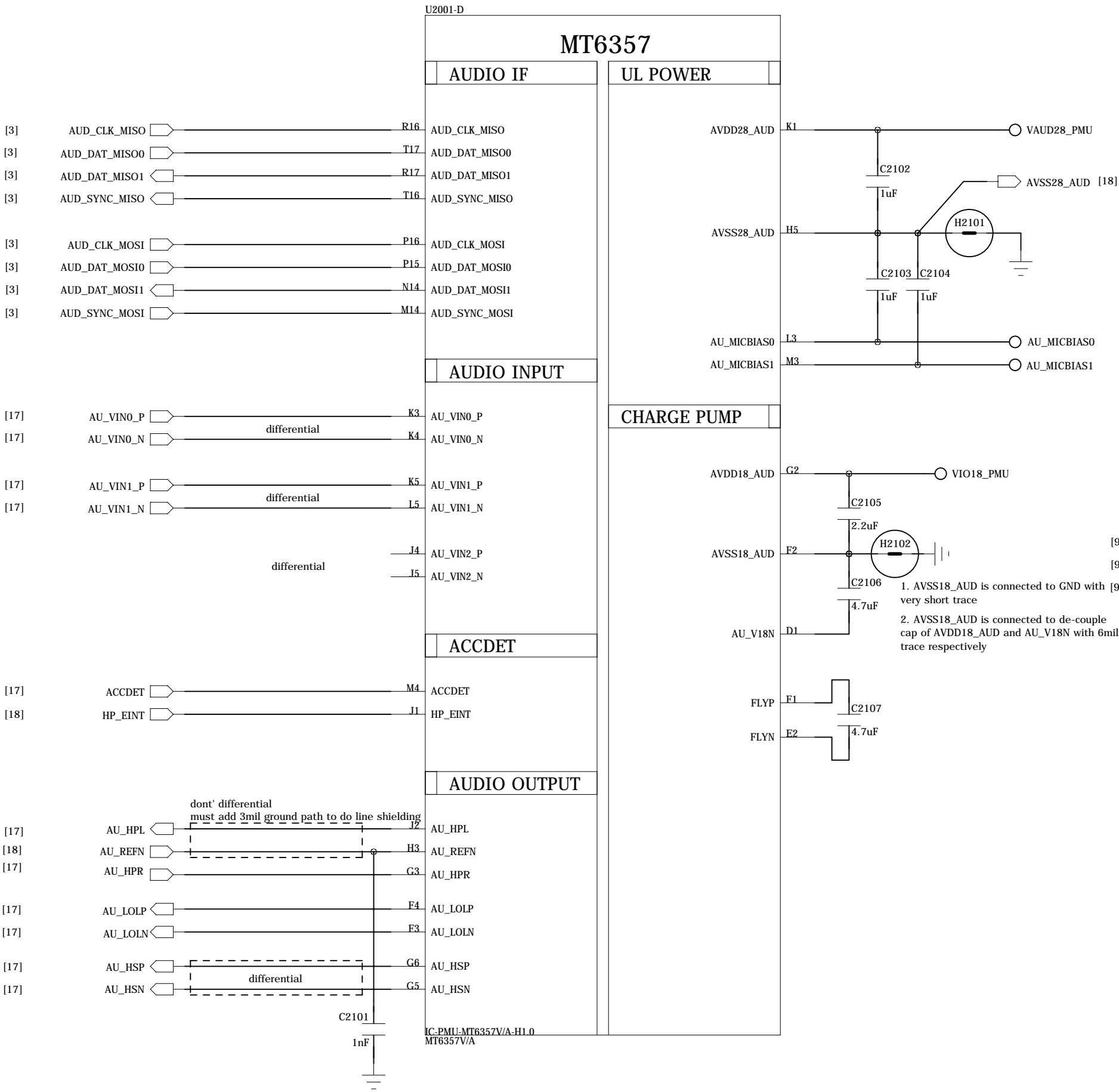
COMPANY: TRANSSION HOLDINGS				MODEL: H399		Modified Date: 2018/4/28	
DRAWN	PAN	DATED	20180329	TITLE: 20_POWER_MT6357_I		VERSION: V0.1	SHEET: 6 OF 21
CHECKED	<CHECKED>	DATED	< >	Confidentiality	CONFIDENTIAL		

POWER_MT6357_II

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

PMU_CLK

PMU_AUDIO



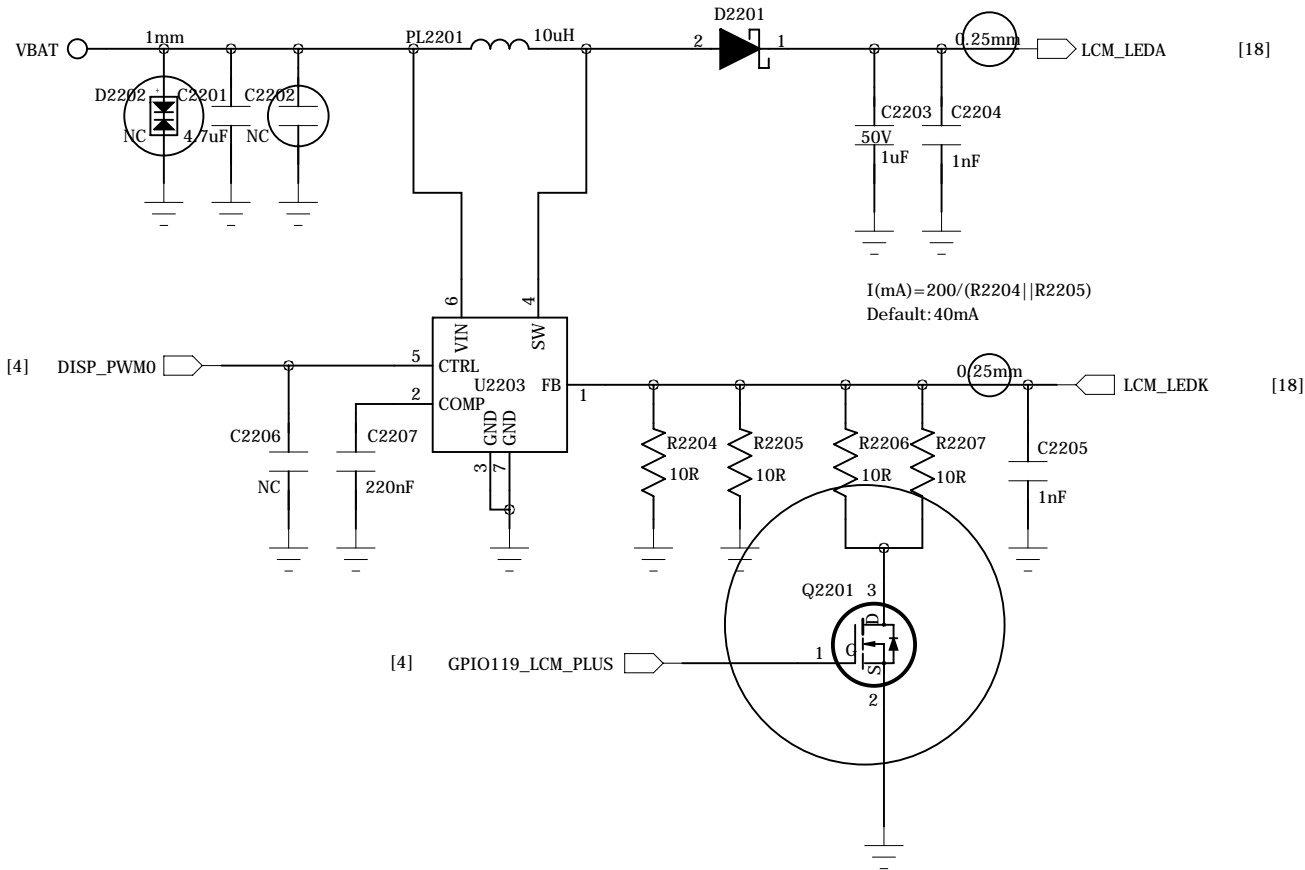
		R2101			R6504		R6506	R6507	D2105	D2106	LED6501	LED6502
	Double Blue indicator light	NC			470R		33R	33R	TVS	TVS	LED-B	LED-B
Default	Flash light as indicator light	10K			NC		NC	NC	NC	NC	NC	NC

COMPANY: TRANSSION HOLDINGS				MODEL: H399		Modified Date: 2018/4/28	
DRAWN	PAN	DATED	20180329	TITLE: 21_POWER_MT6357_II		VERSION: V0.1	SHEET: 7 OF 21
CHECKED	<CHECKED>	DATED	< >	Confidentiality	CONFIDENTIAL		

POWER_THIRD-PARTY_I

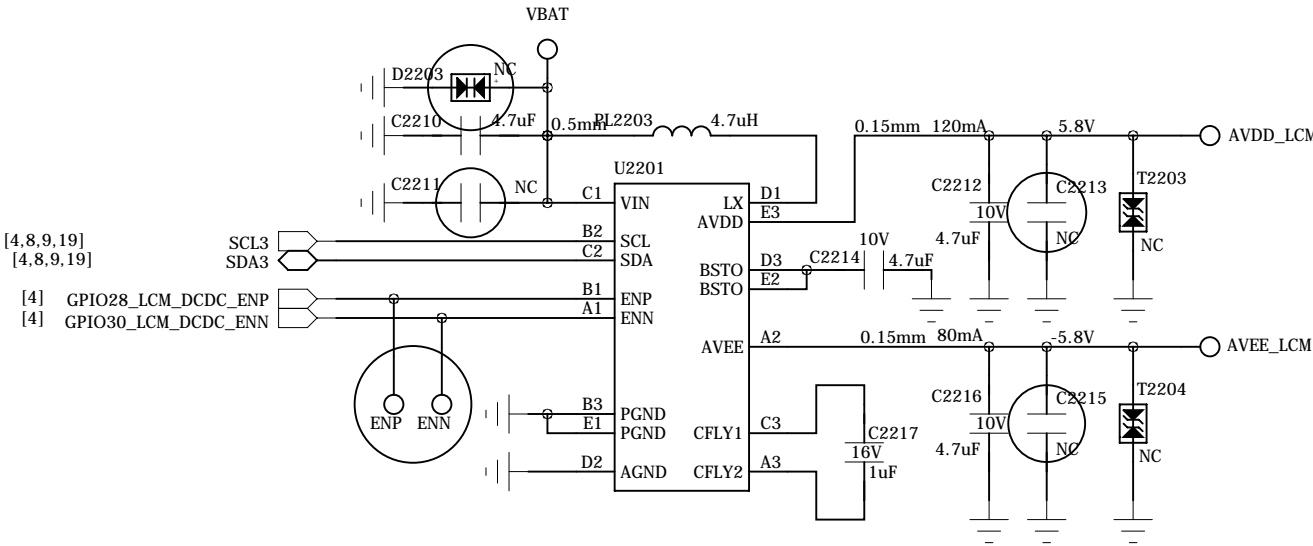
REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

LCM Backlight LED Driver



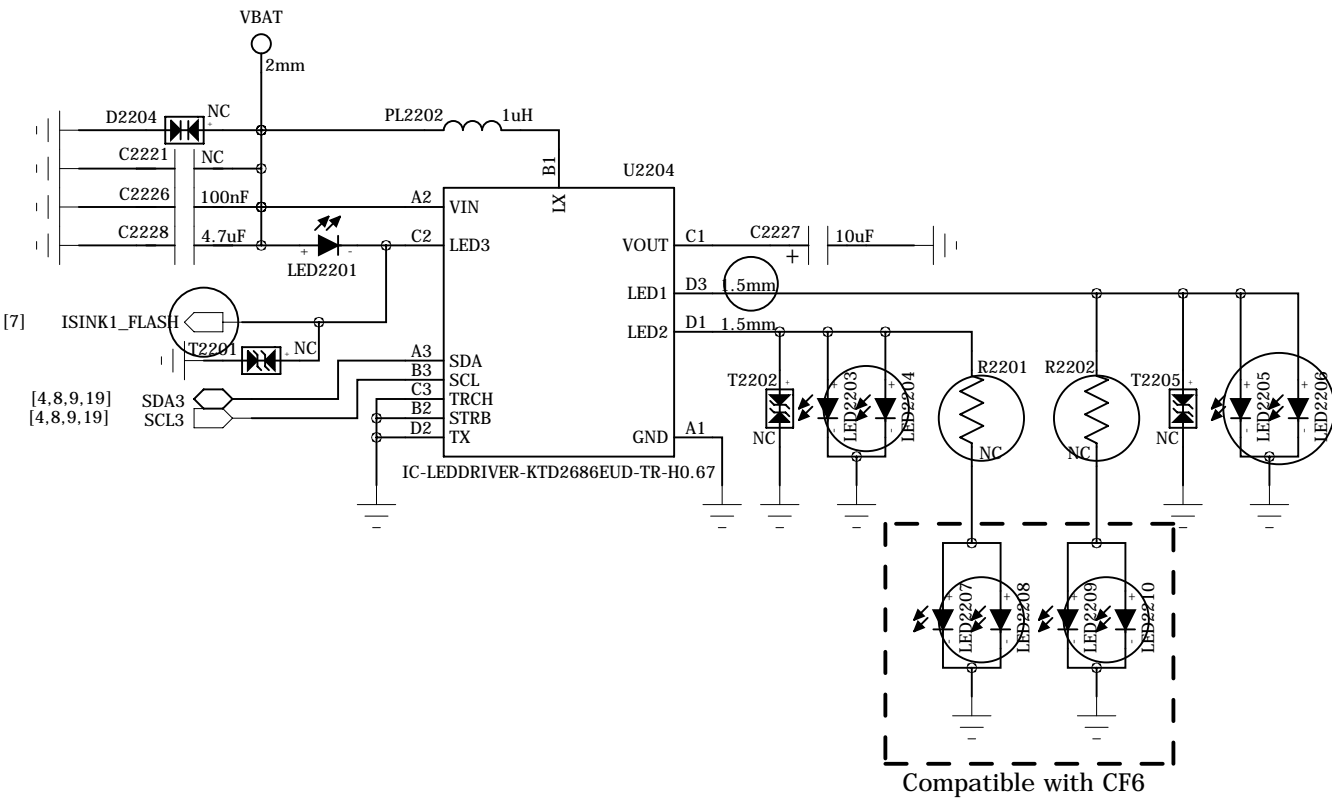
LCM Gate Driver

KTD2151:I2C ADDRESS:0x7C(Write)/0x7D(Read)



Camera Flash LED Driver

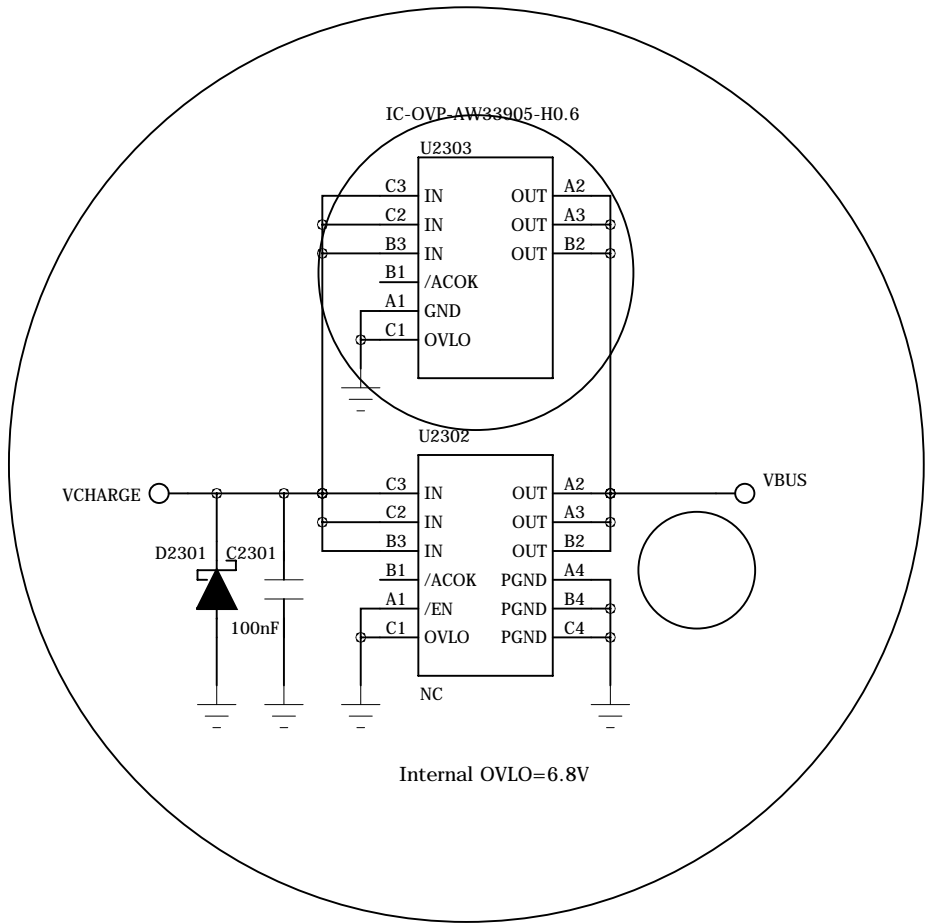
KTD2699:I2C Address=0x63 write:0xC6 read:0xC7



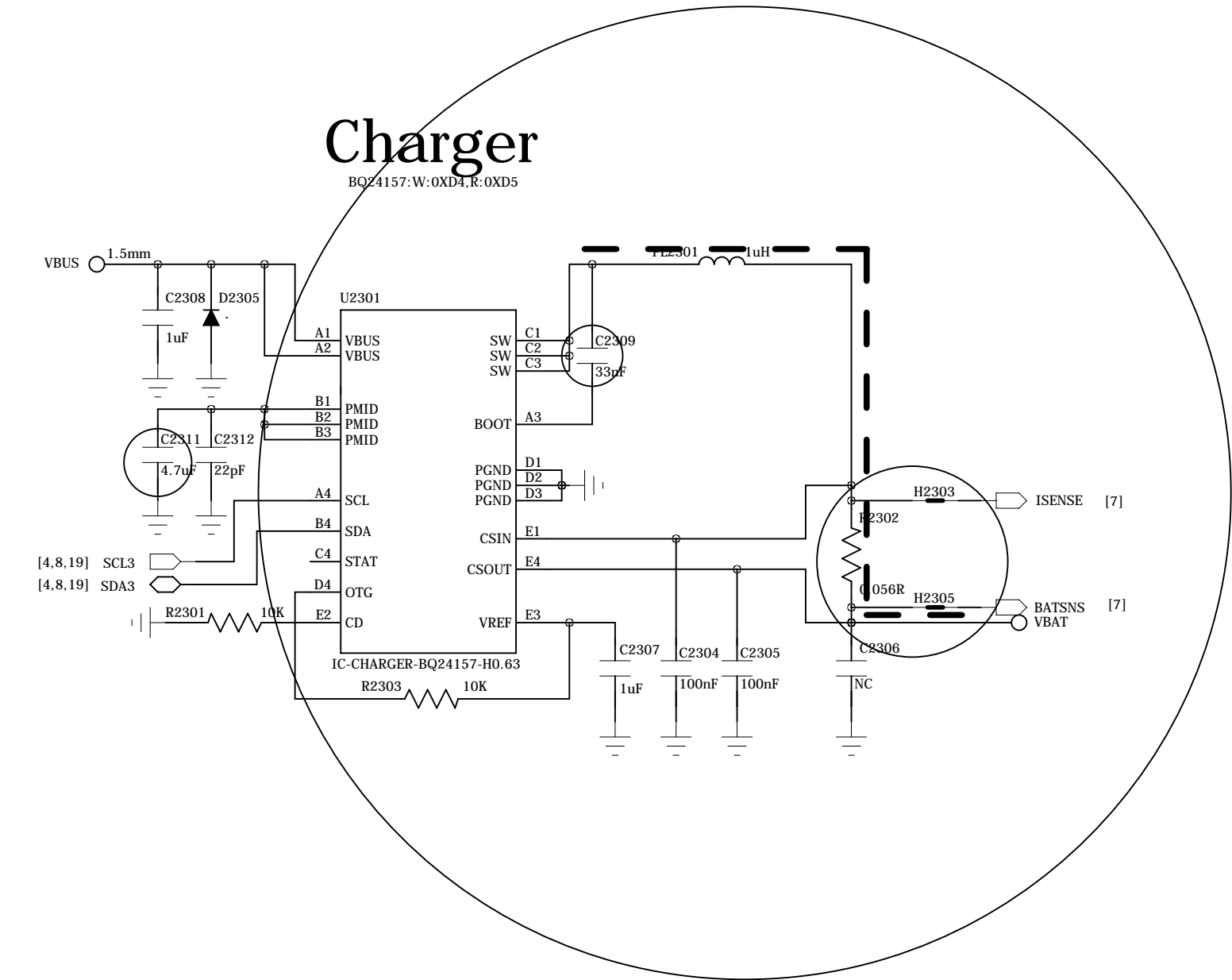
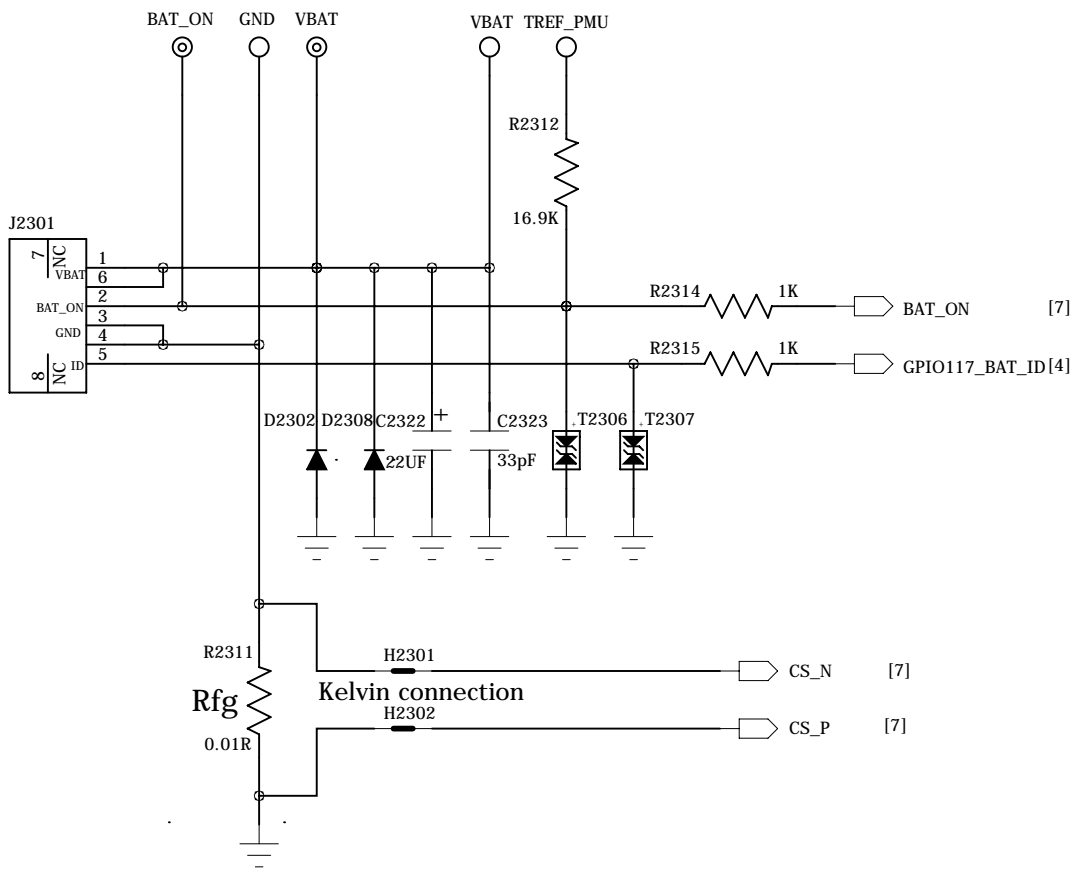
COMPANY: TRANSSION HOLDINGS				MODEL: H399		Modified Date: 2018/4/28	
DRAWN	PAN	DATED	20180329	TITLE: 22_POWER_THIRD-PARTY_I		VERSION: V0.1	SHEET: 8 OF 21
CHECKED	<CHECKED>	DATED	< >	Confidentiality	CONFIDENTIAL		

POWER_THIRD-PARTY II

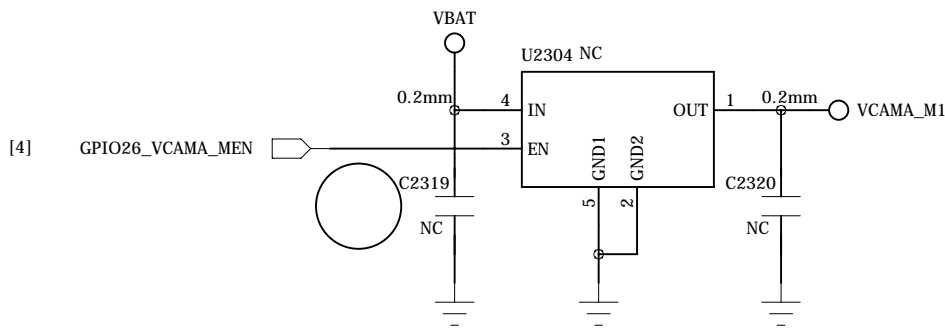
REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



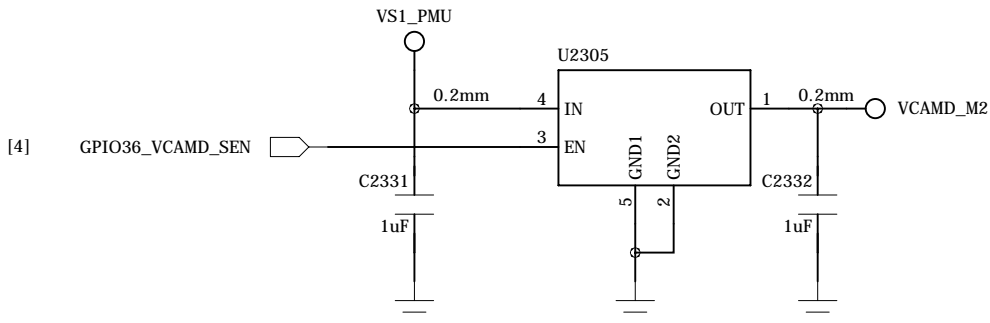
BATTERY CONNECTOR



VCAMA_MAIN_1(2.8V)



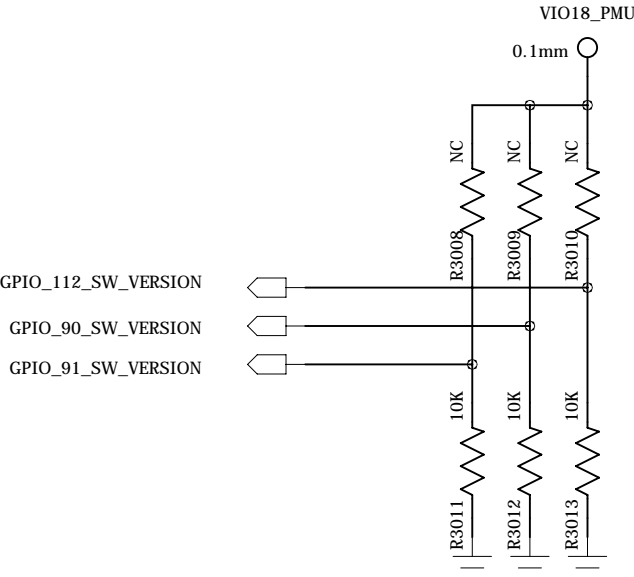
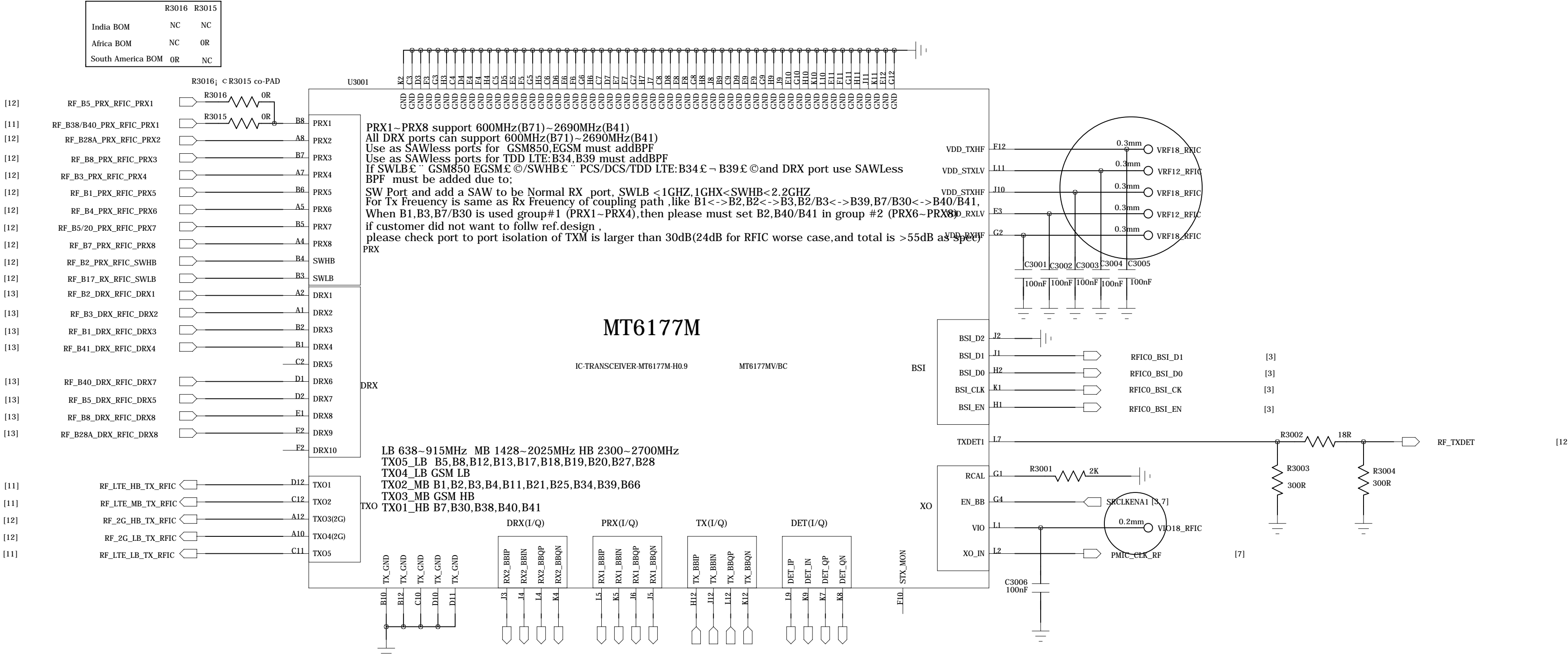
VCAMD_SUB (1.2V)



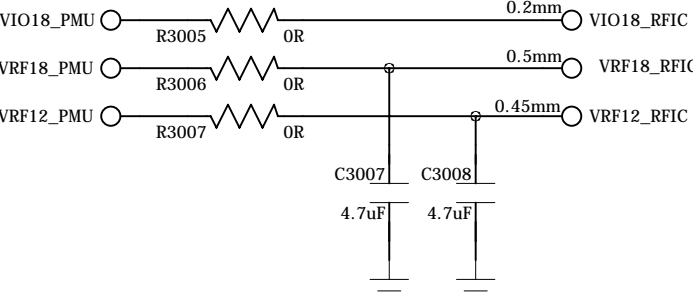
COMPANY: TRANSSION HOLDINGS				MODEL: H399		Modified Date: 2018/4/28	
DRAWN	PAN	DATED	20180329	TITLE: 23_POWER_THIRD-PARTY II		VERSION: V0.1	SHEET: 9 OF 21
CHECKED	<CHECKED>	DATED	< >	Confidentiality	CONFIDENTIAL		

RF_MT6177M_PIN_OUT

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



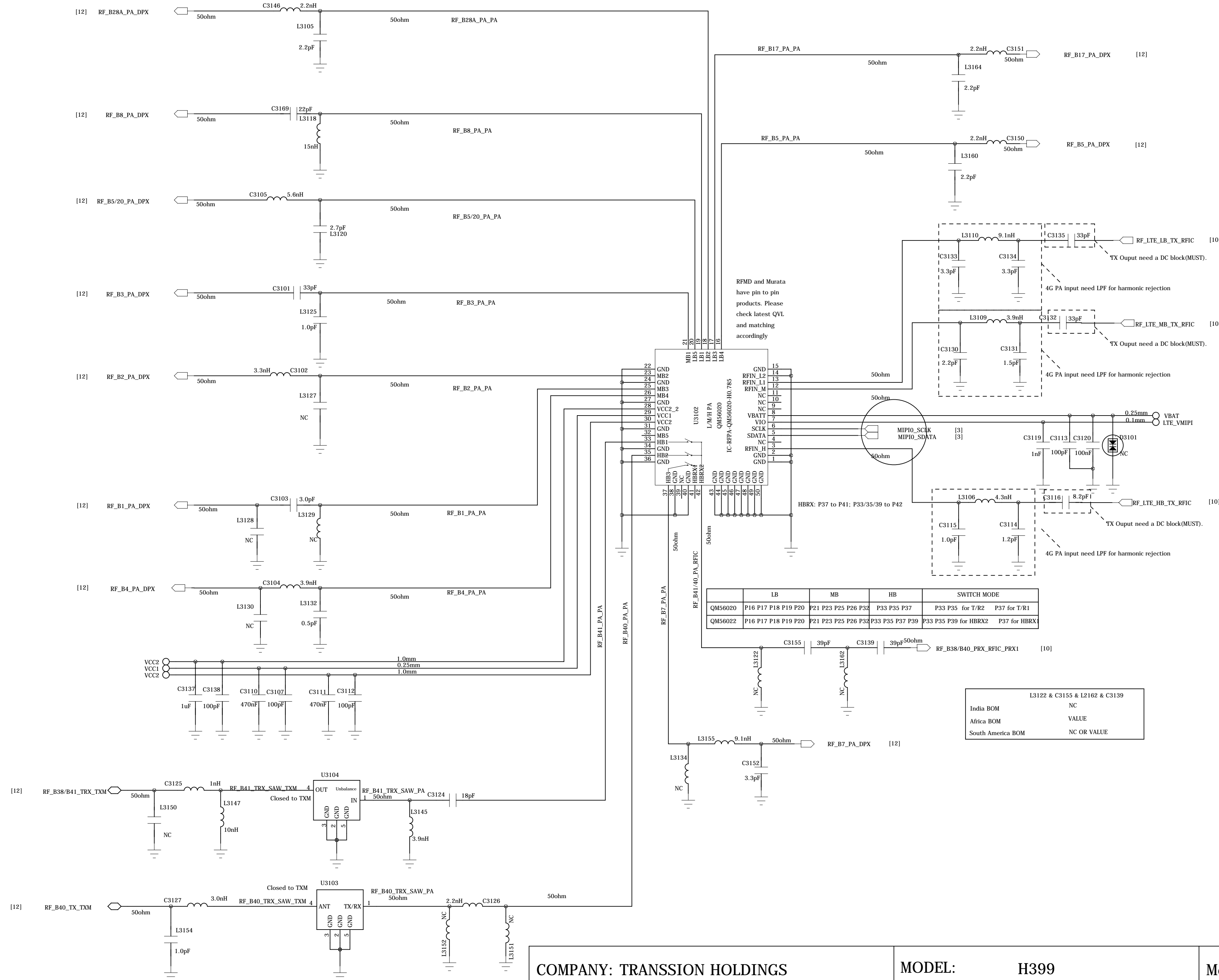
Power domain of MT6177M



COMPANY: TRANSSION HOLDINGS				MODEL: H399		Modified Date: 2018/4/28	
DRAWN	PAN	DATED	20180329	TITLE: 30_RF_MT6177M_PIN_OUT		VERSION: V0.1	SHEET: 10 OF 21
CHECKED	<CHECKED>	DATED	< >	Confidentiality	CONFIDENTIAL		

RF_MT6176_RF_TX

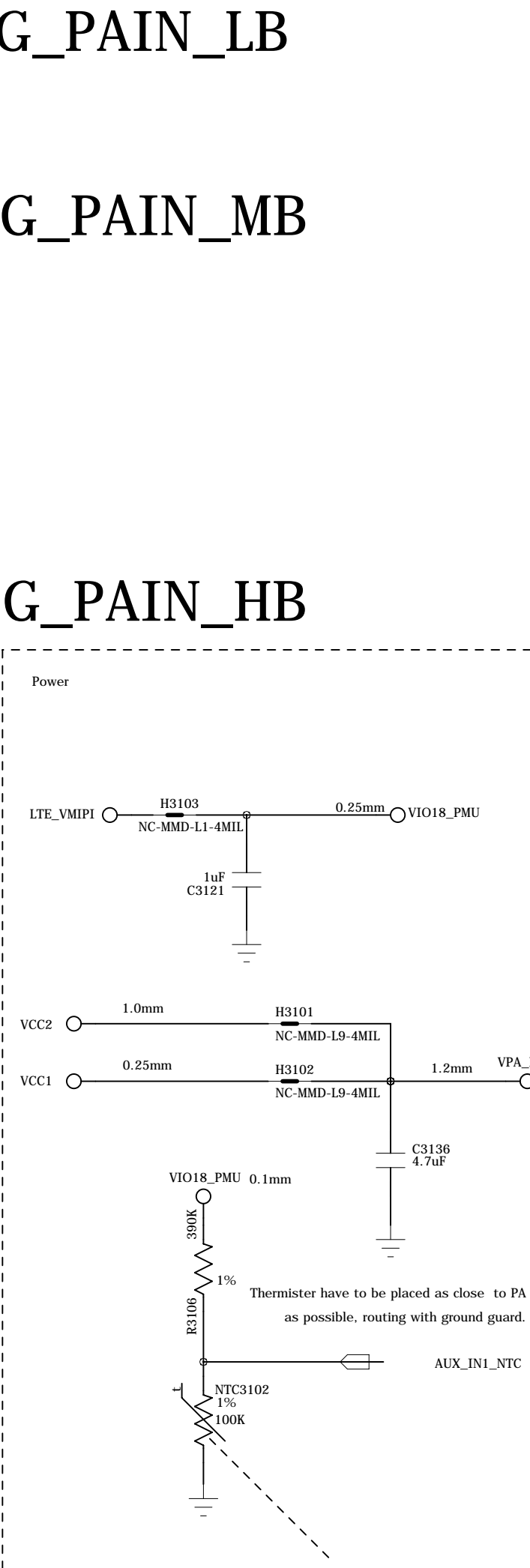
REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



3/4G_PAIN_LB

3/4G_PAIN_MB

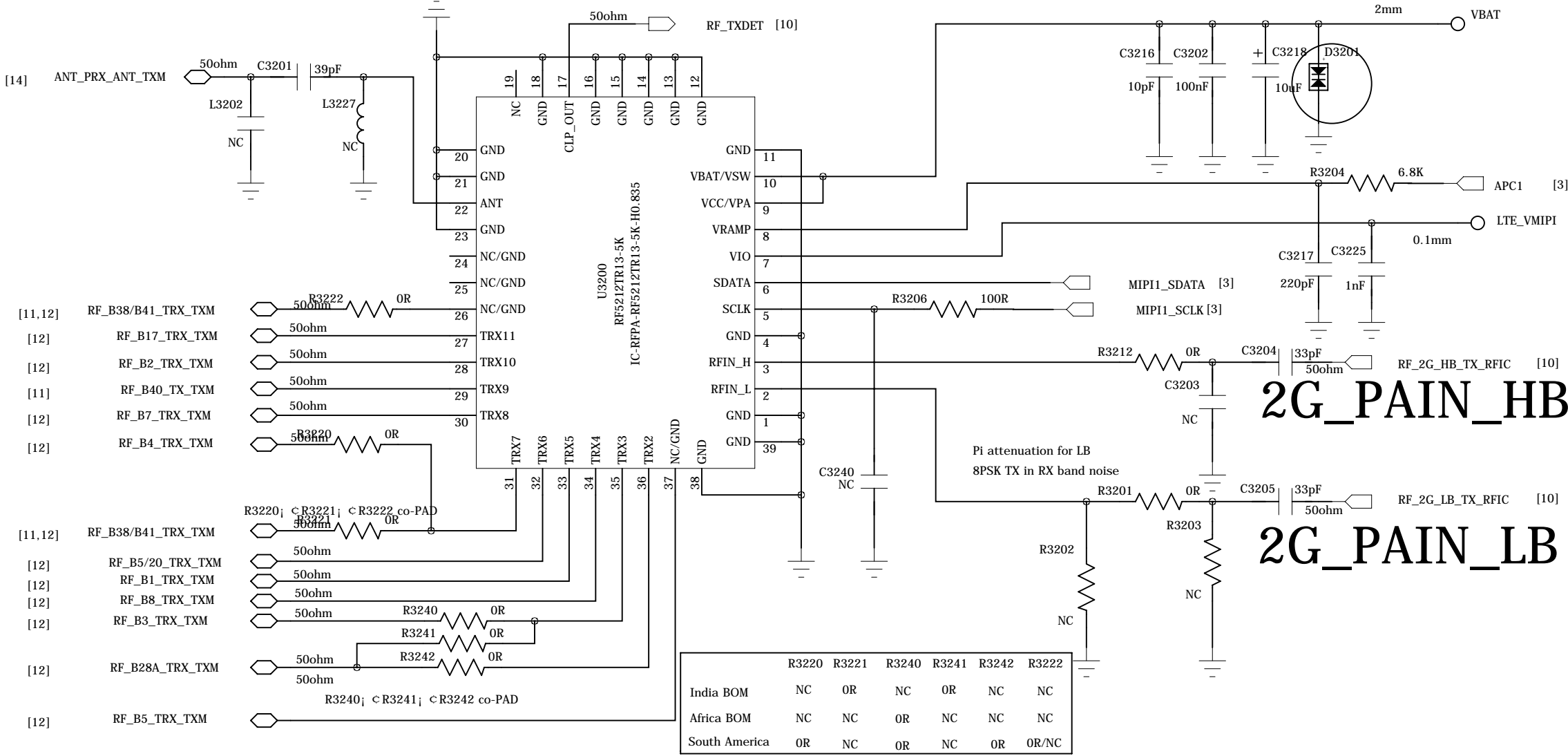
3/4G_PAIN_HB



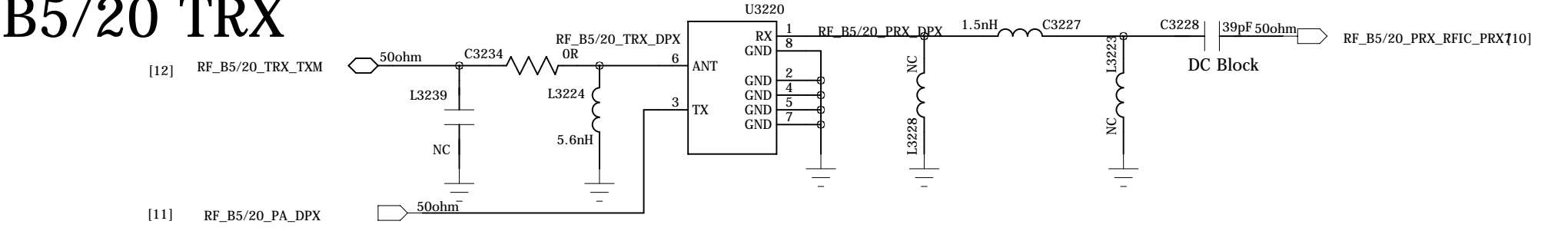
COMPANY: TRANSSION HOLDINGS				MODEL: H399		Modified Date: 2018/4/28	
DRAWN	PAN	DATED	20180329	TITLE: 31_RF_MT6177M_RF_TRX		VERSION: V0.1	SHEET: 11 OF 21
CHECKED	<CHECKED>	DATED	< >	Confidentiality	CONFIDENTIAL		

RF_MT6177M_RF_PRX

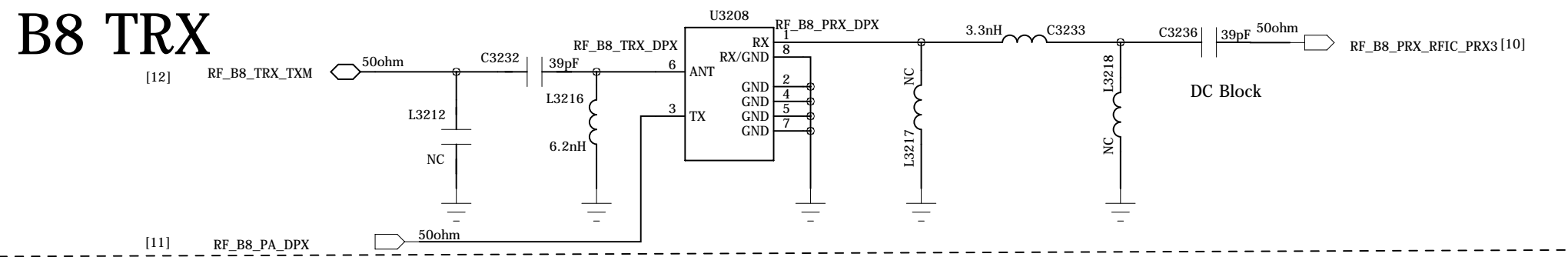
REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



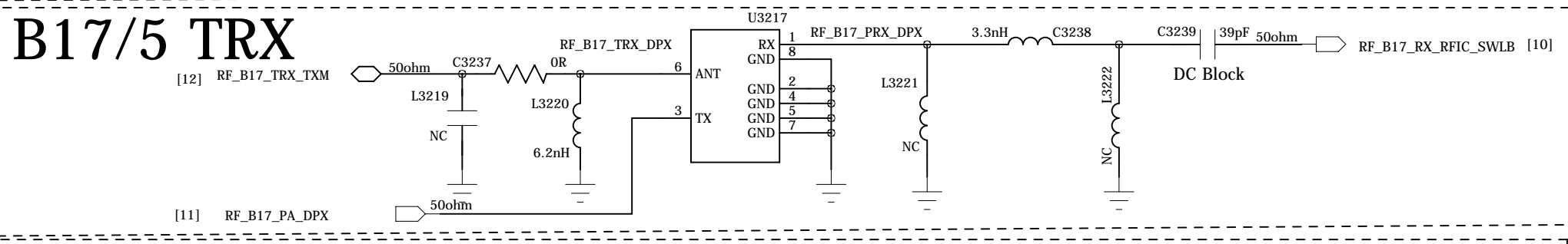
B5/20 TRX



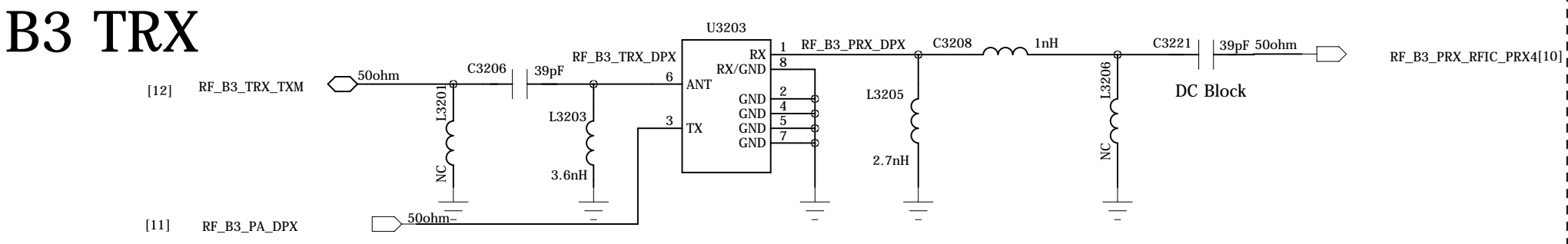
B8 TRX



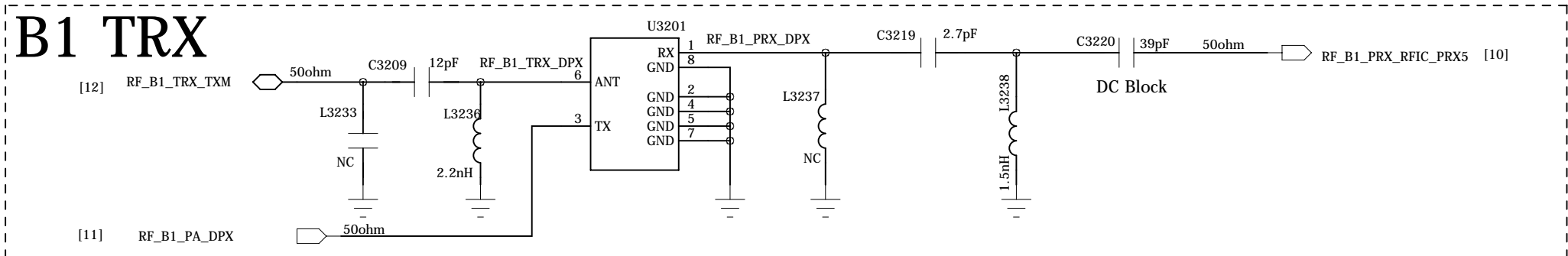
B17/5 TRX



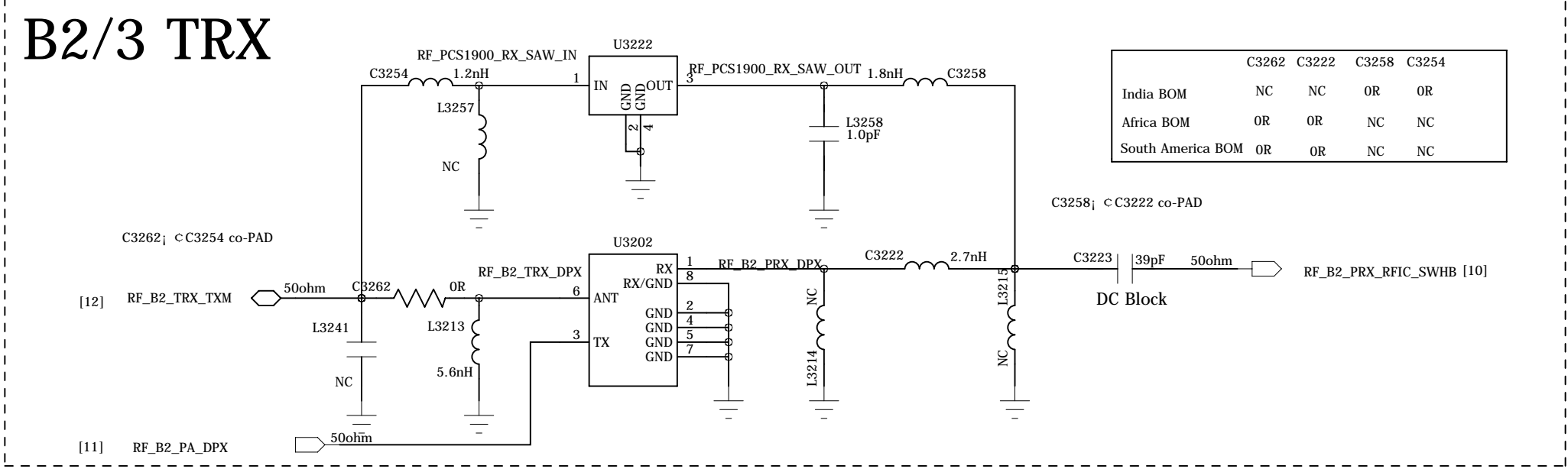
B3 TRX



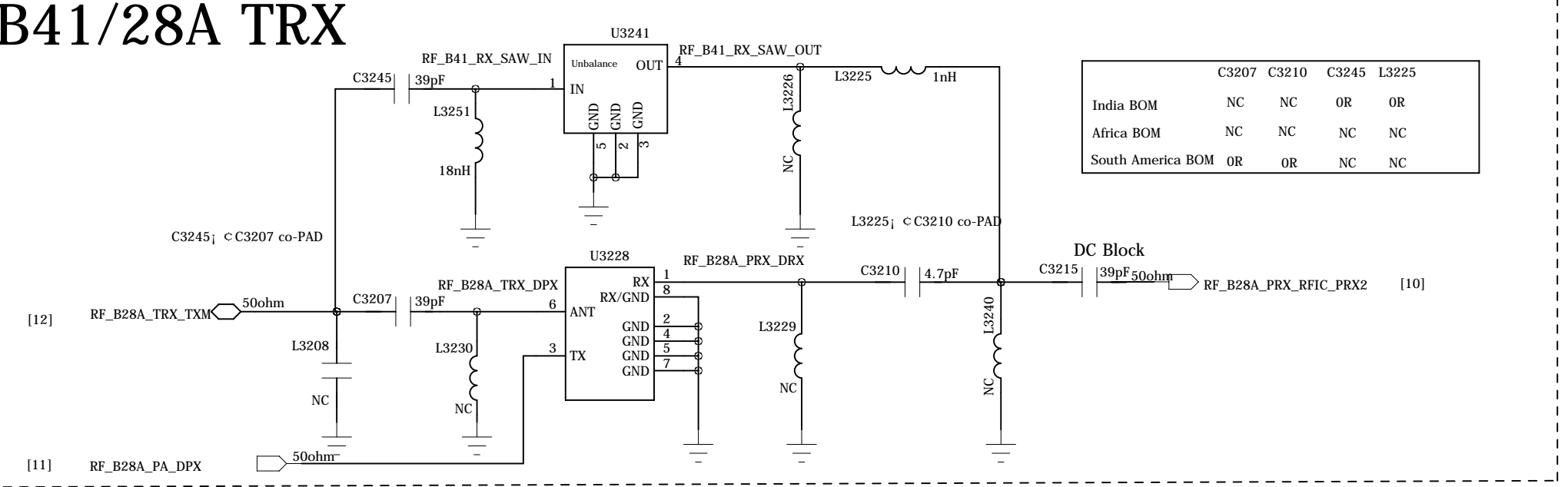
B1 TRX



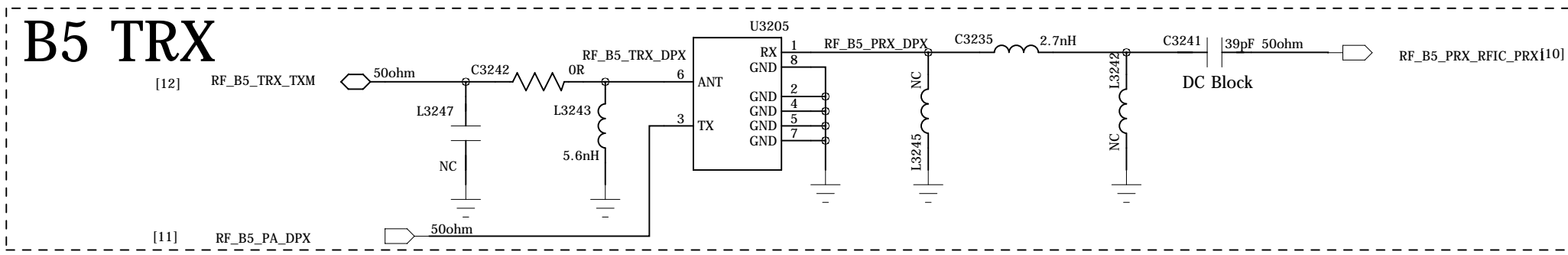
B2/3 TRX



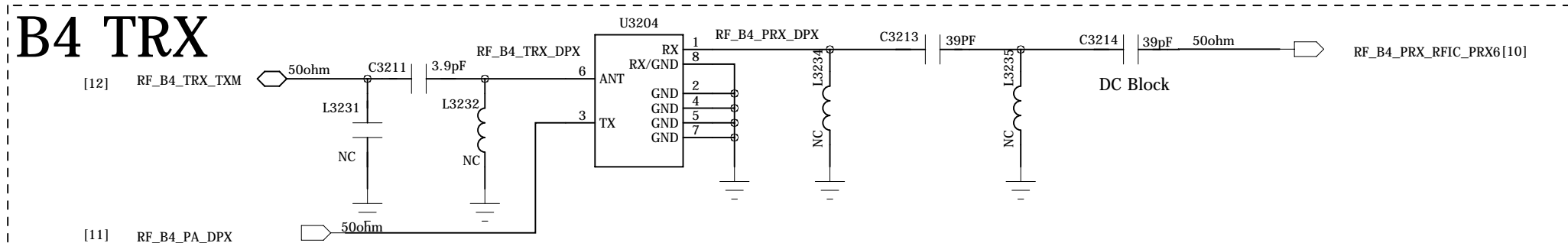
B41/28A TRX



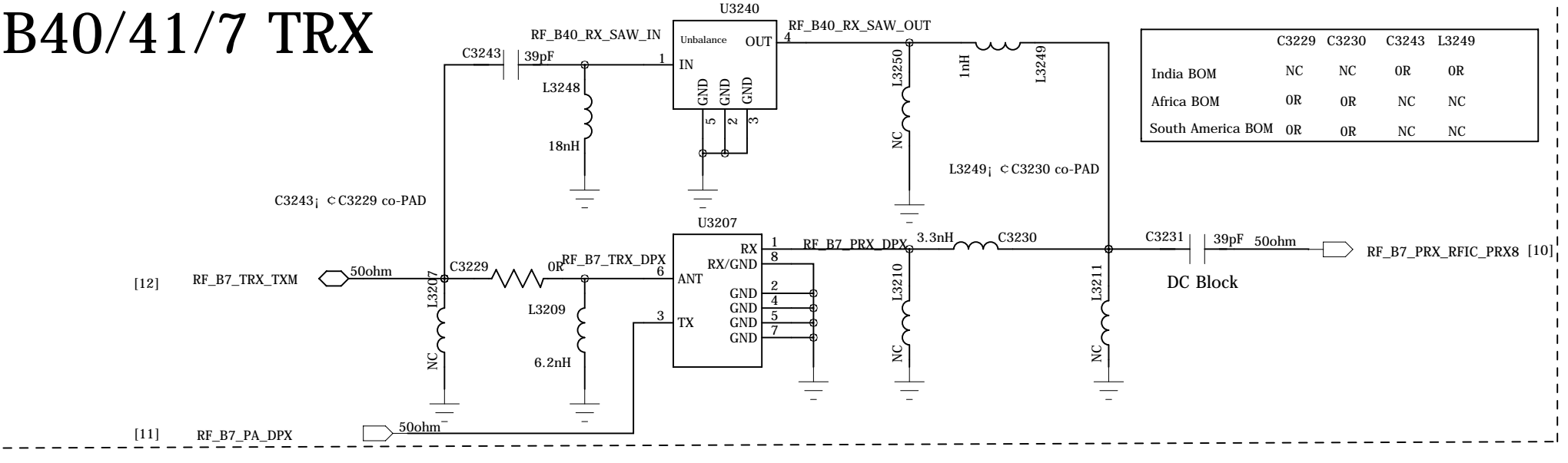
B5 TRX



B4 TRX



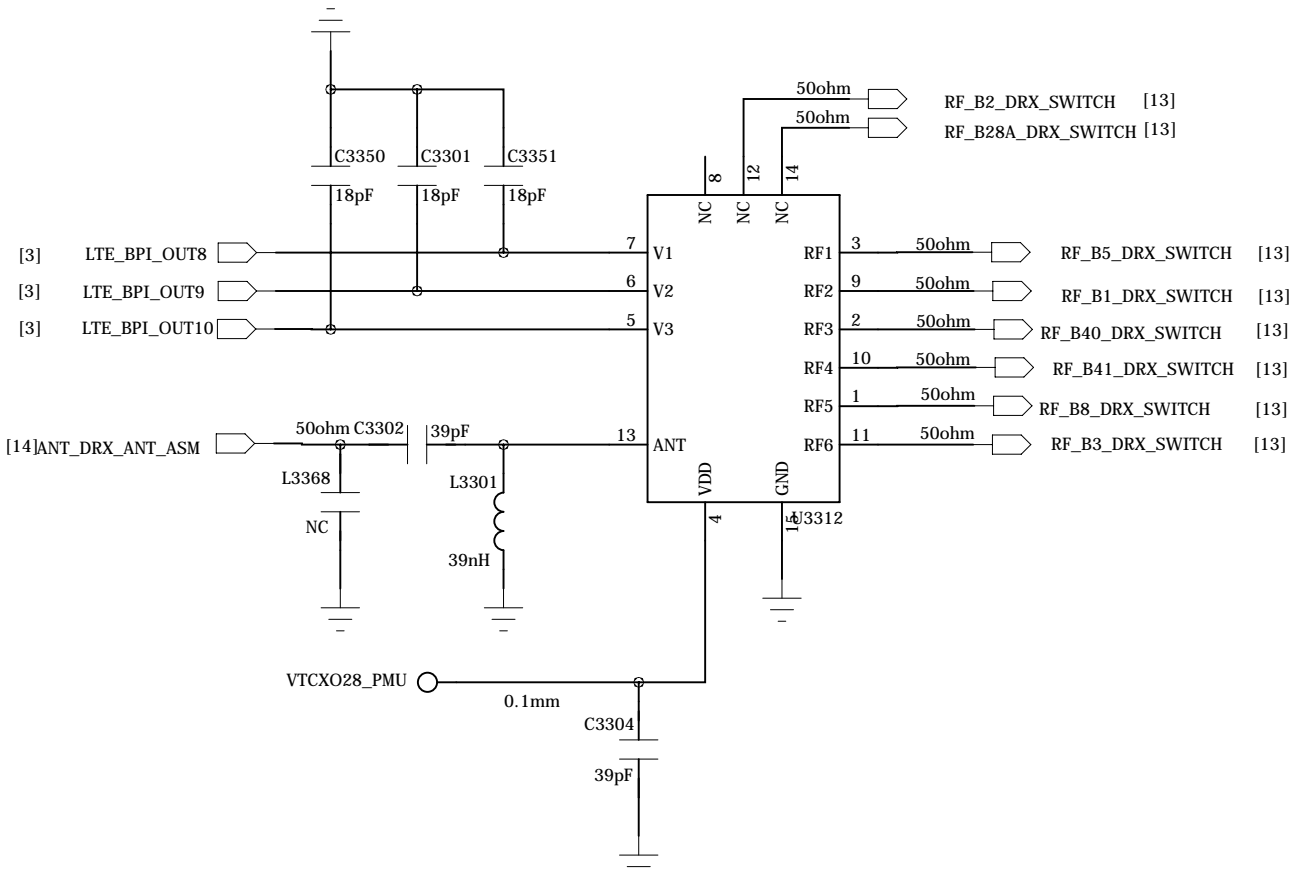
B40/41/7 TRX



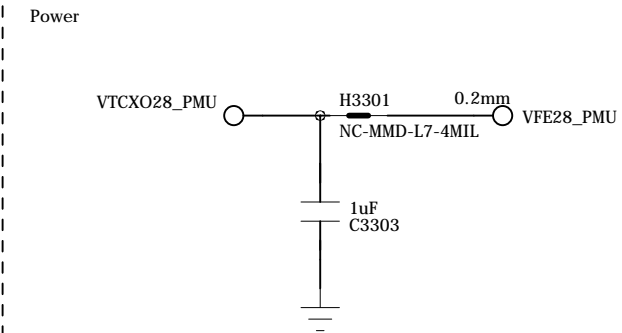
COMPANY: TRANSSION HOLDINGS				MODEL: H399		Modified Date: 2018/4/28	
DRAWN	PAN	DATED	20180329	TITLE: 32_RF_MT6177M_RF_PRX		VERSION: V0.1	SHEET: 12 OF 21
CHECKED	<CHECKED>	DATED	< >	Confidentiality	CONFIDENTIAL		

RF_MT6177M_RF_DRX

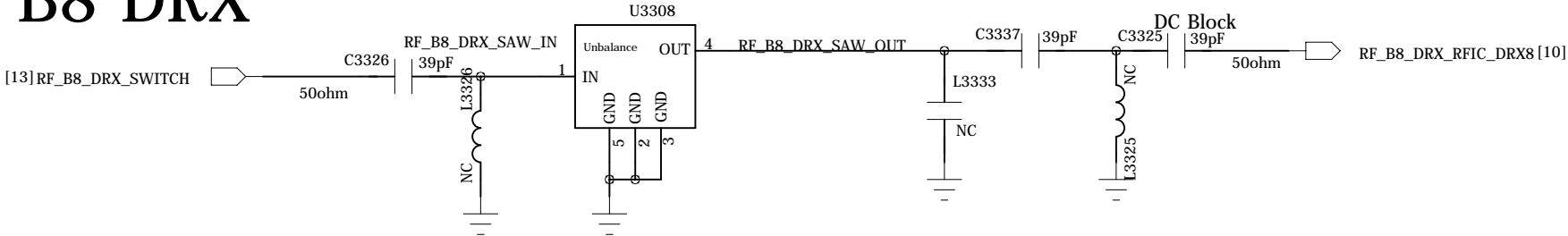
SP8T



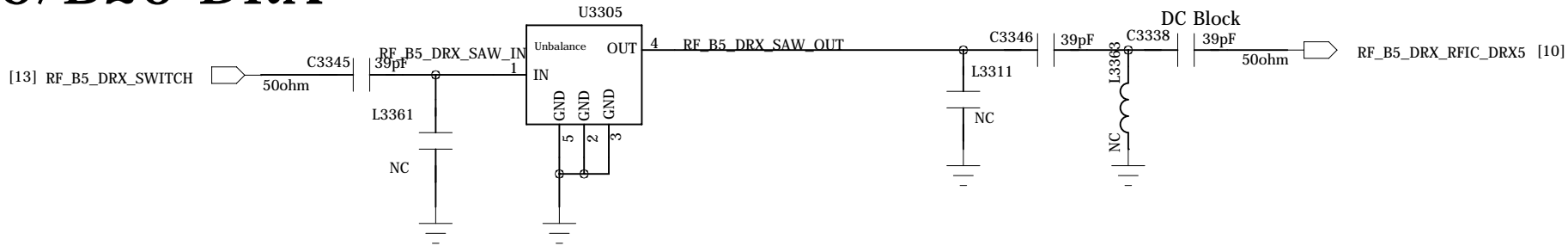
SP8T control logic										
SP6T control logic										
V1	V2	V3	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8
L	L	L	Y	N	N	N	N	N	N	N
L	L	H	N	Y	N	N	N	N	N	N
L	H	L	N	N	Y	N	N	N	N	N
L	H	H	N	N	N	Y	N	N	N	N
H	L	L	N	N	N	N	Y	N	N	N
H	L	H	N	N	N	N	N	Y	N	N
H	H	L	N	N	N	N	N	N	Y	N
H	H	H	N	N	N	N	N	N	N	Y



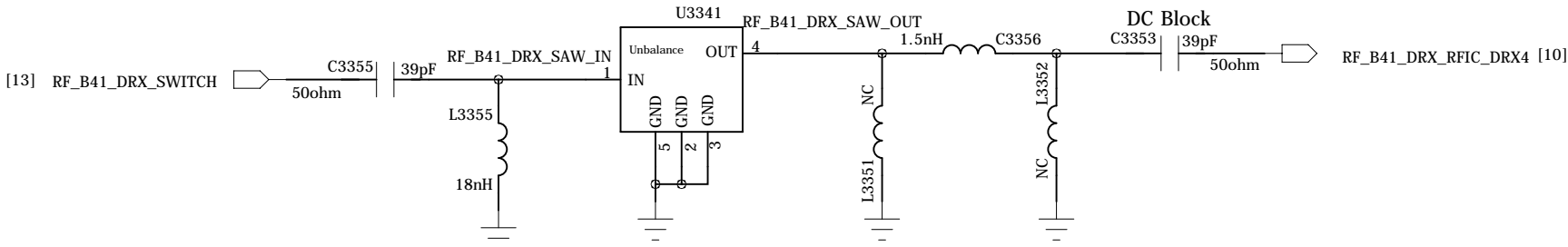
B8 DRX



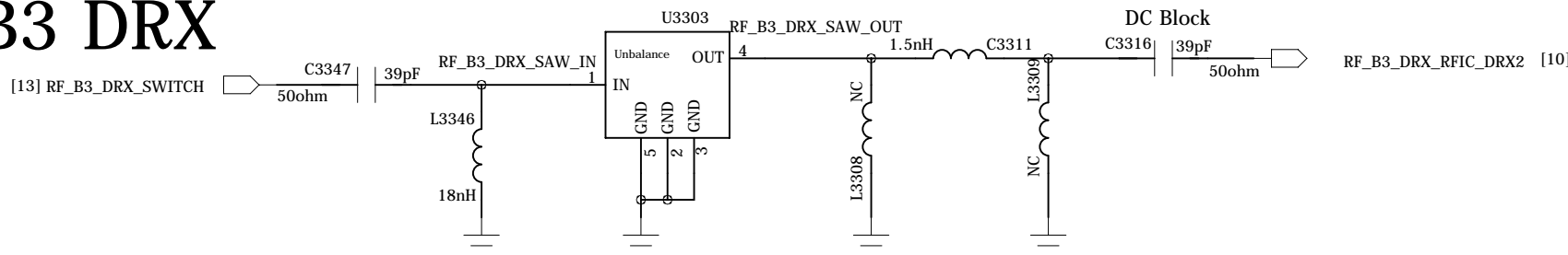
B5/B20 DRX



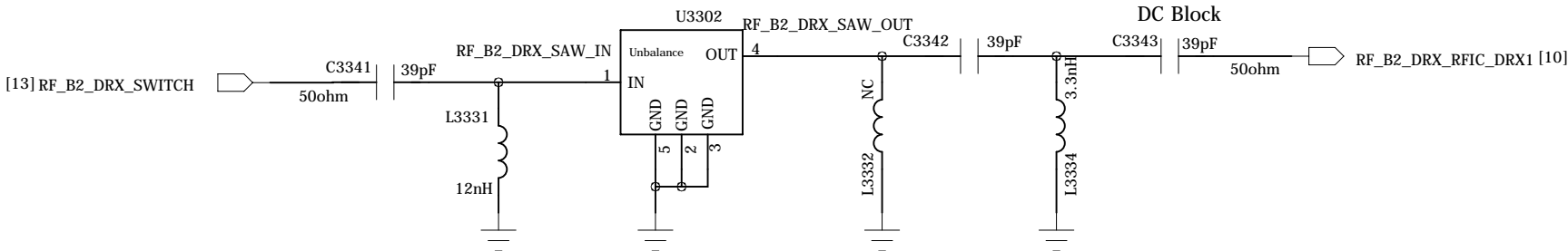
B41 DRX



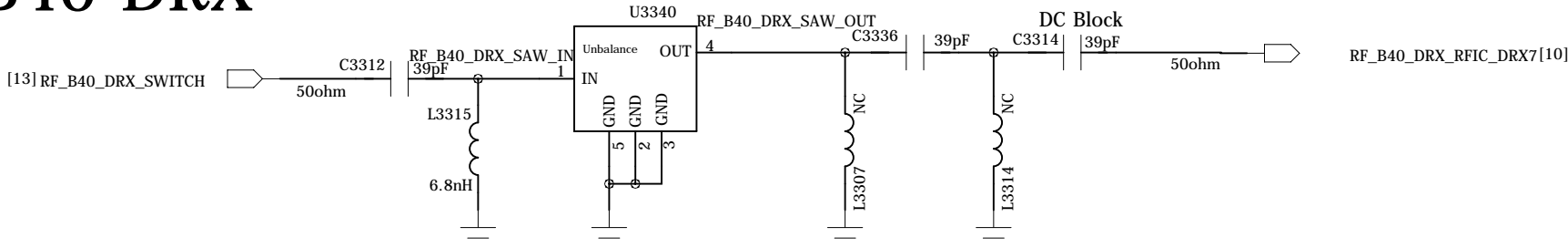
B3 DRX



B2 DRX



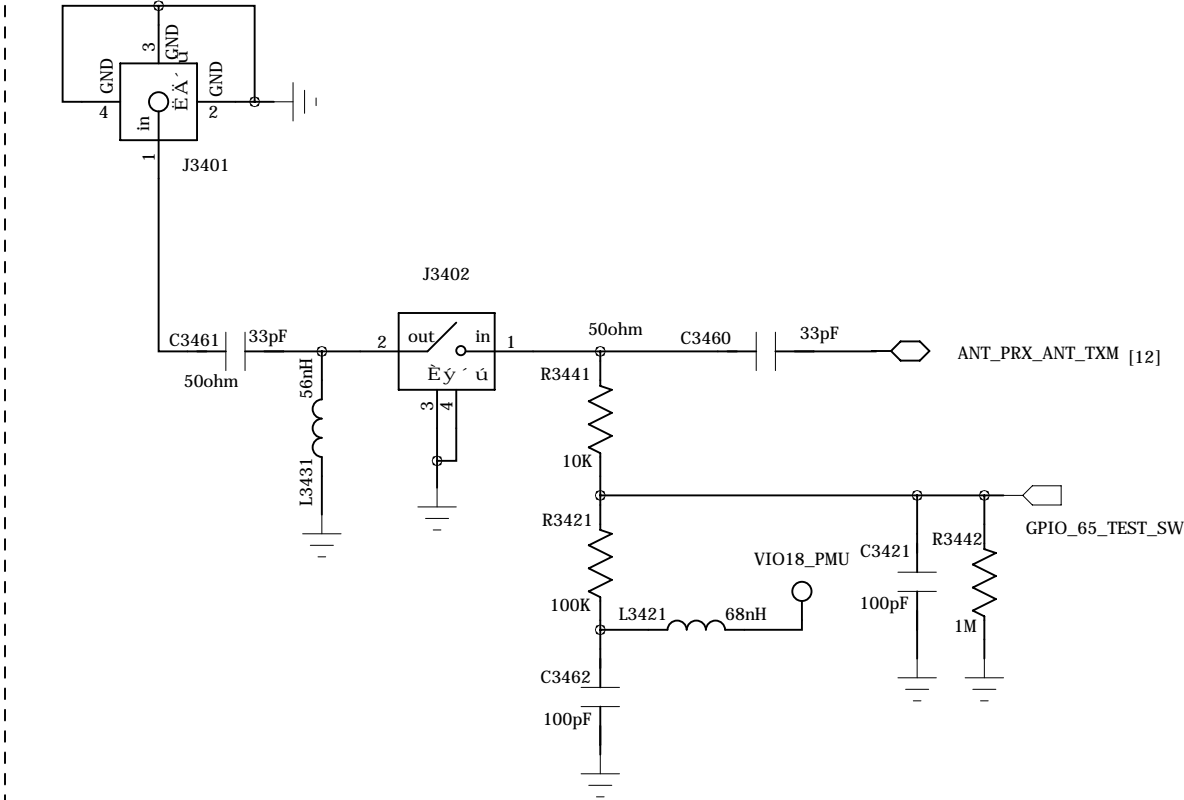
B40 DRX



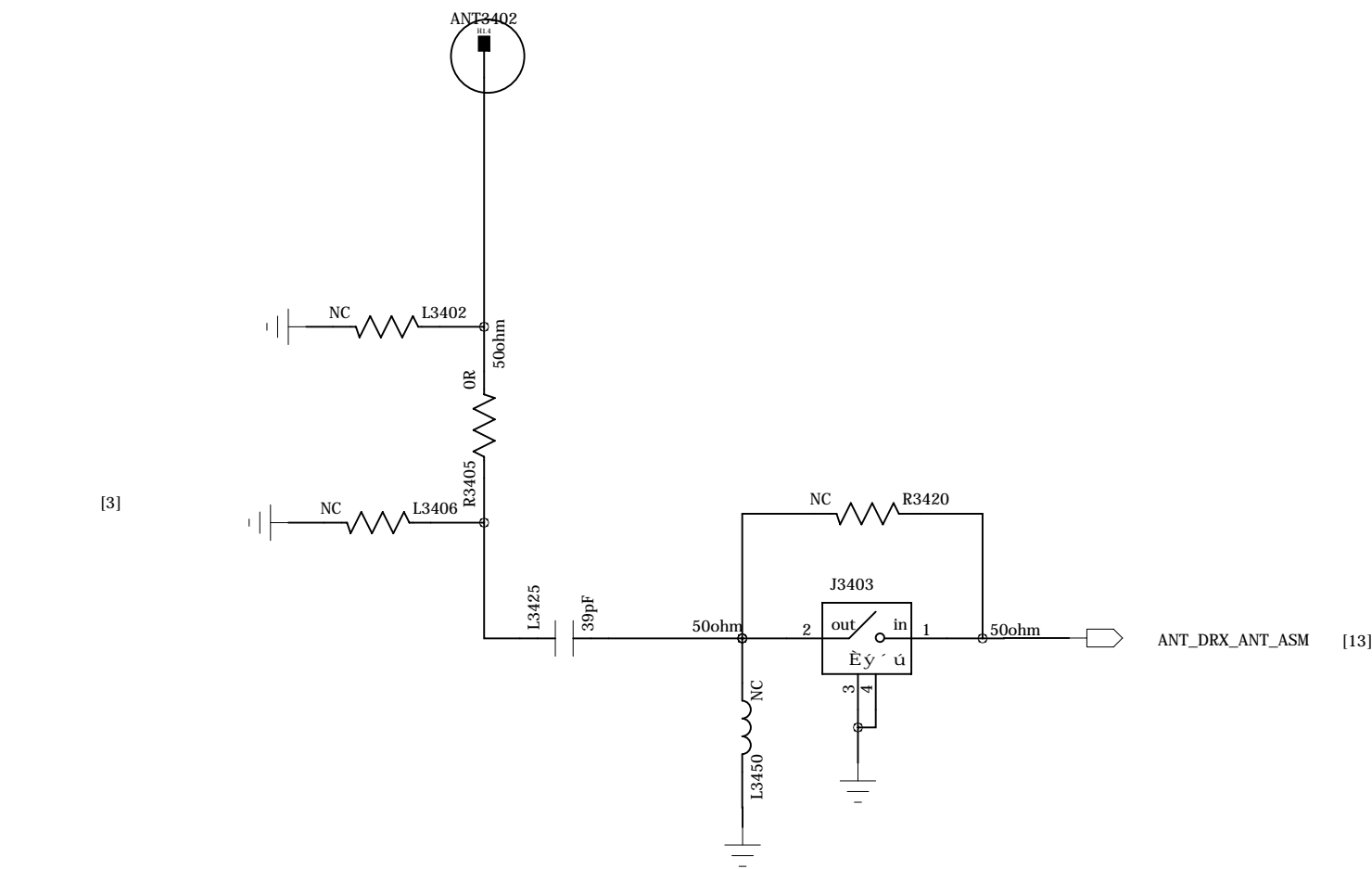
COMPANY: TRANSSION HOLDINGS				MODEL: H399		Modified Date: 2018/4/28	
DRAWN	PAN	DATED	20180329	TITLE: 33_RF_MT6177M_RF_DRX		VERSION: V0.1	SHEET: 13 OF 21
CHECKED	<CHECKED>	DATED	< >	Confidentiality	CONFIDENTIAL		

RF_MT6177M_RF_ANT

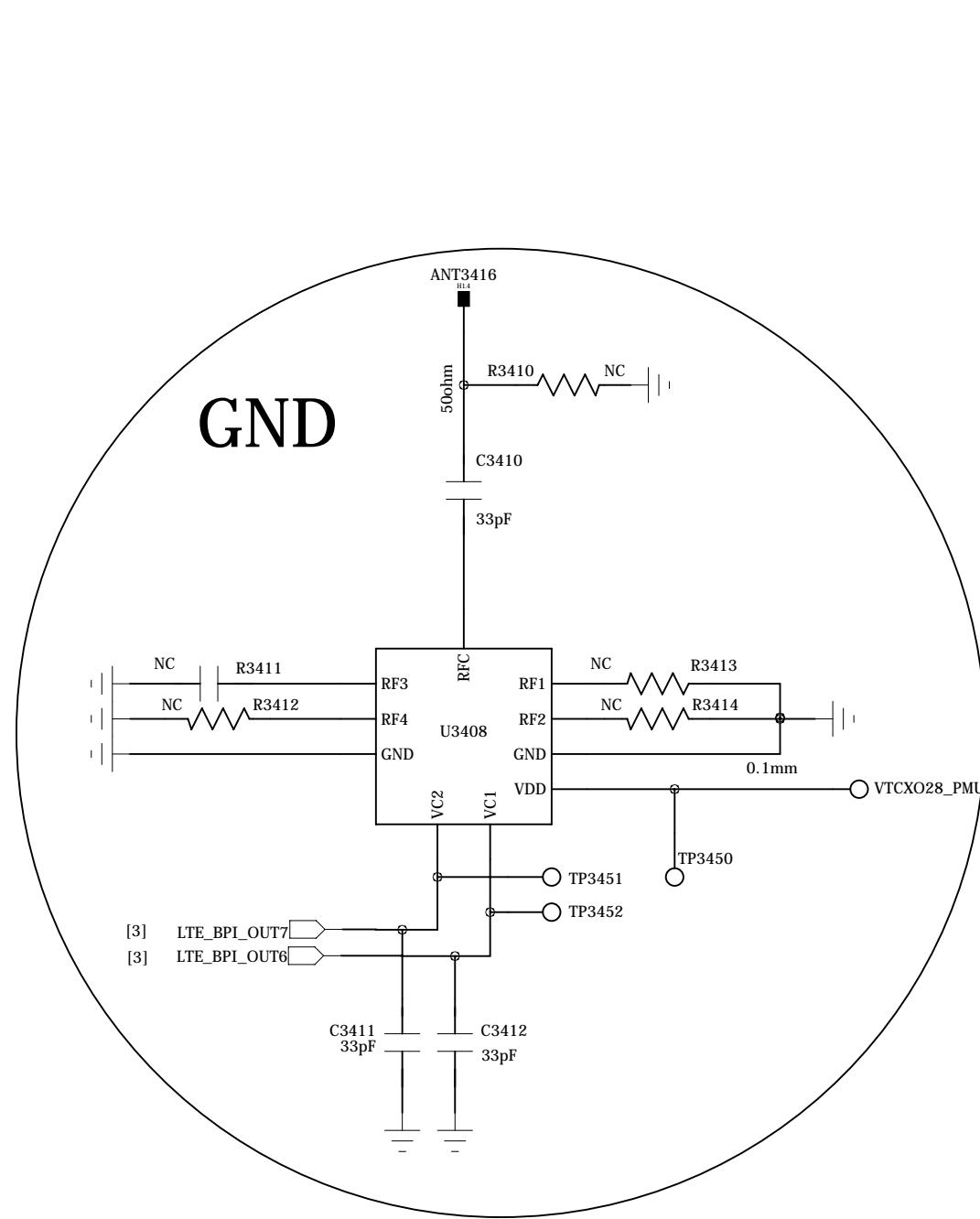
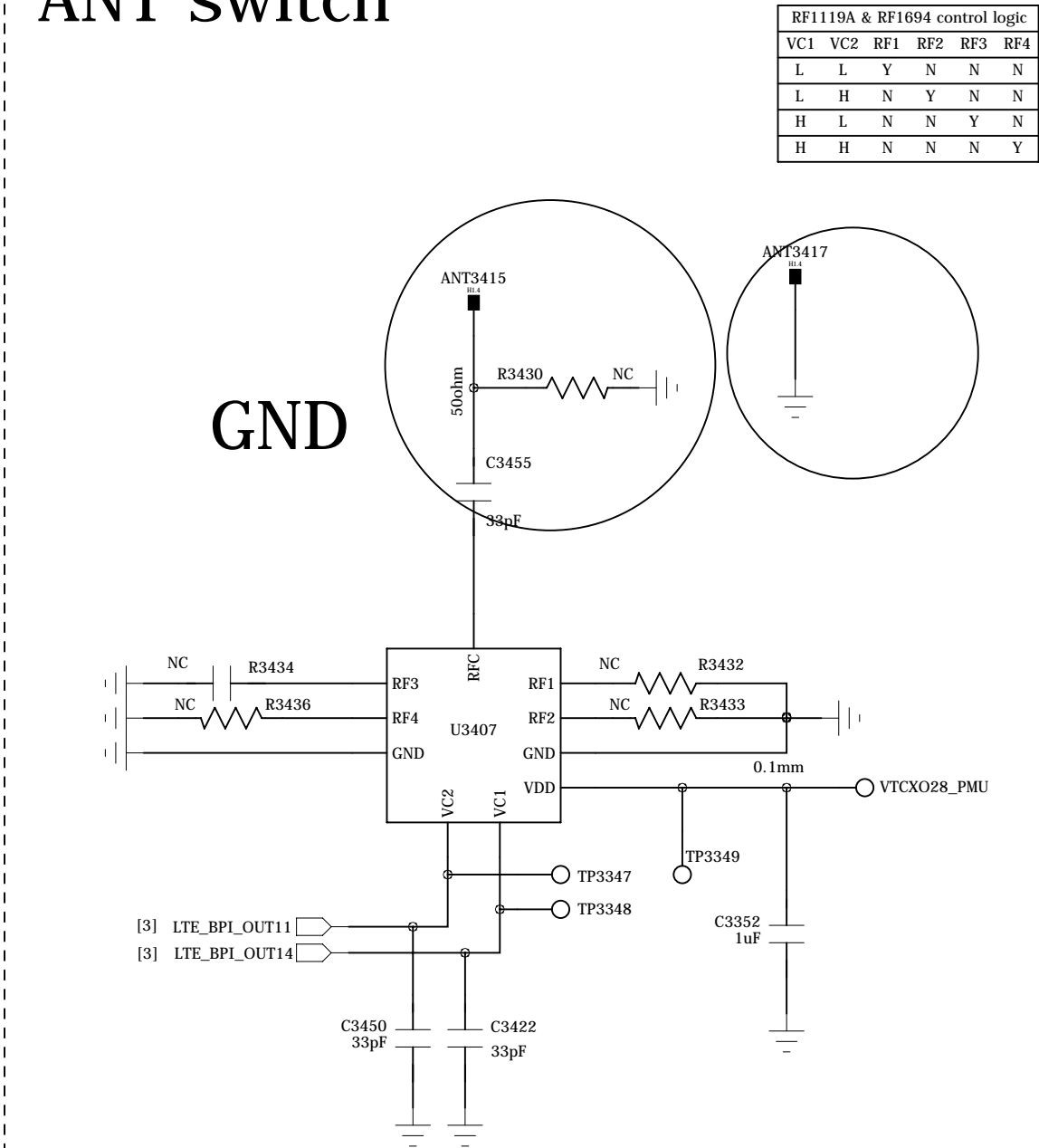
ASM_Main
791~960MHz + 1710~2690MHz



DRX ANT
791~821MHz + 1805~2690MHz



ANT switch



COMPANY: TRANSSION HOLDINGS

MODEL: H399

Modified Date: 2018/4/28

DRAWN

PAN

DATED

20180329

TITLE: 34_RF_ANT_CONTROLLER

CHECKED

<CHECKED>

DATED

< >

Confidentiality

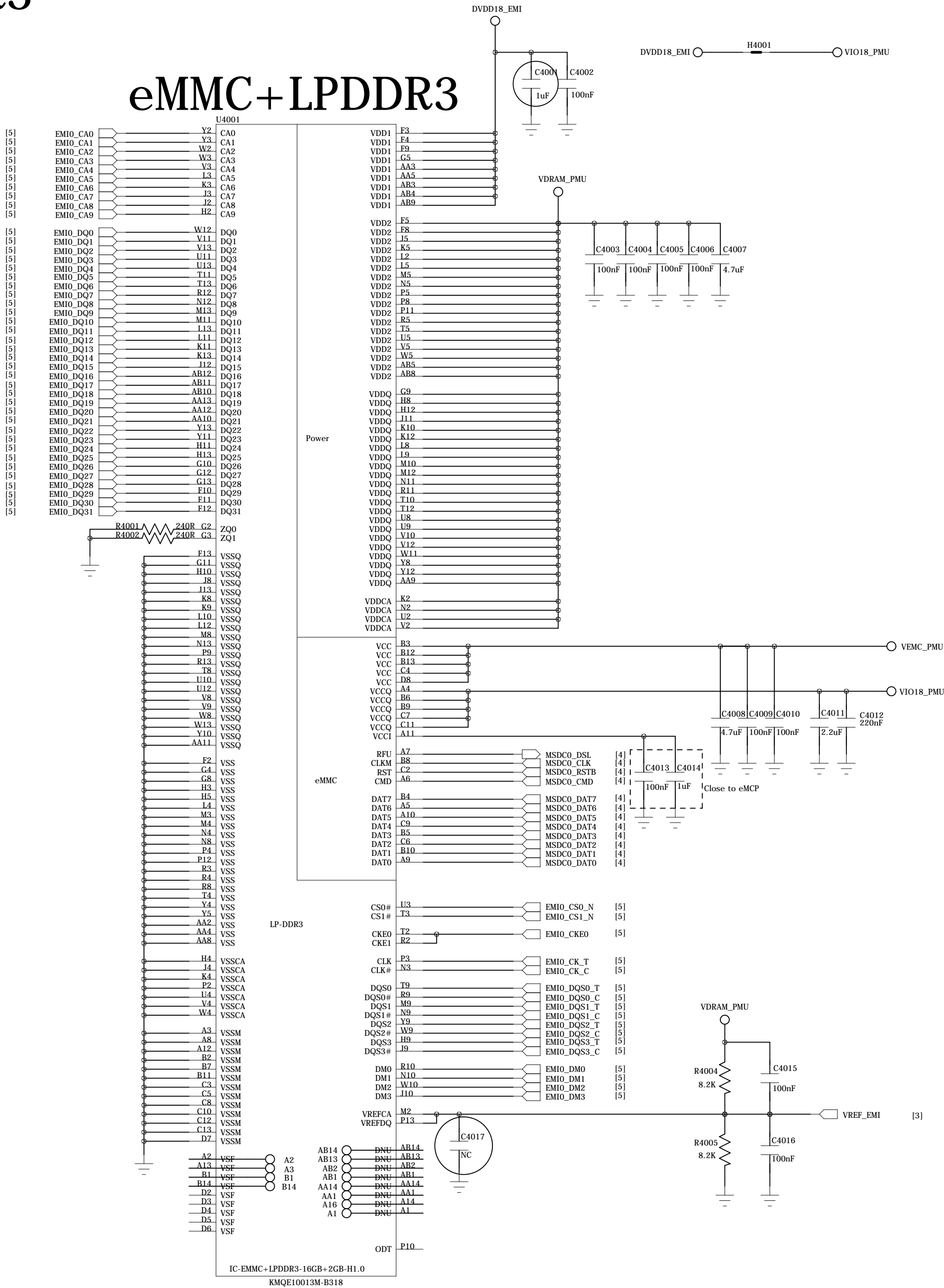
CONFIDENTIAL

VERSION: V0.1

SHEET: 14 OF 21

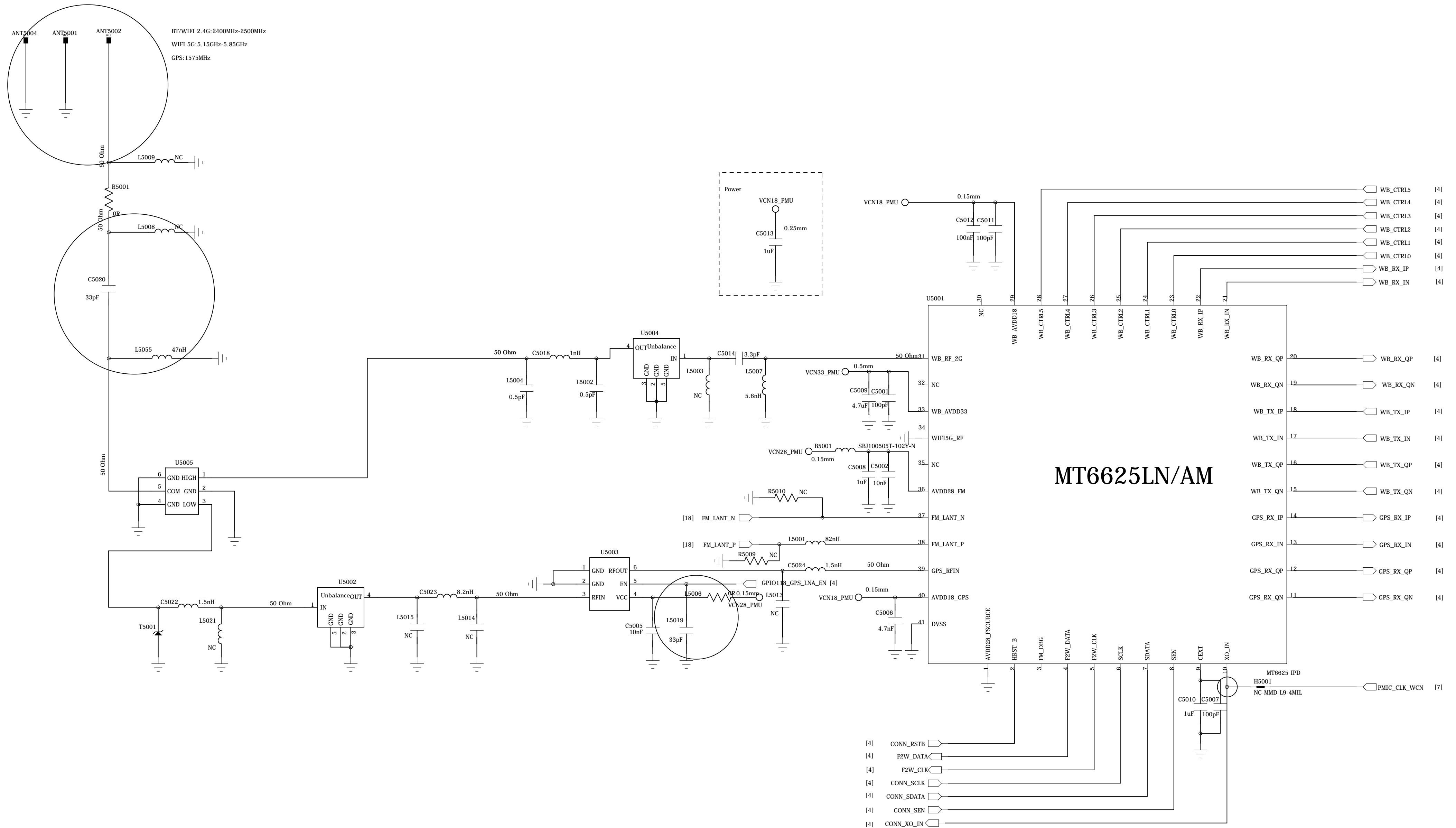
MEMORY_eMMC_LPDDR3

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



COMPANY: TRANSSION HOLDINGS				MODEL: H399		Modified Date: 2018/4/28	
DRAWN	PAN	DATED	20180329	TITLE: 40_MEMORY_EMMC_LPDDR3		VERSION: V0.1	SHEET: 15 OF 21
CHECKED	<CHECKED>	DATED	< >	Confidentiality	CONFIDENTIAL		

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



COMPANY: TRANSSION HOLDINGS				MODEL: H399		Modified Date: 2018/4/28	
DRAWN	PAN	DATED	20180329	TITLE: 50_CONNECTIVITY_MT6625		VERSION: V0.1	SHEET: 16 OF 21
CHECKED	<CHECKED>	DATED	< >	Confidentiality	CONFIDENTIAL		

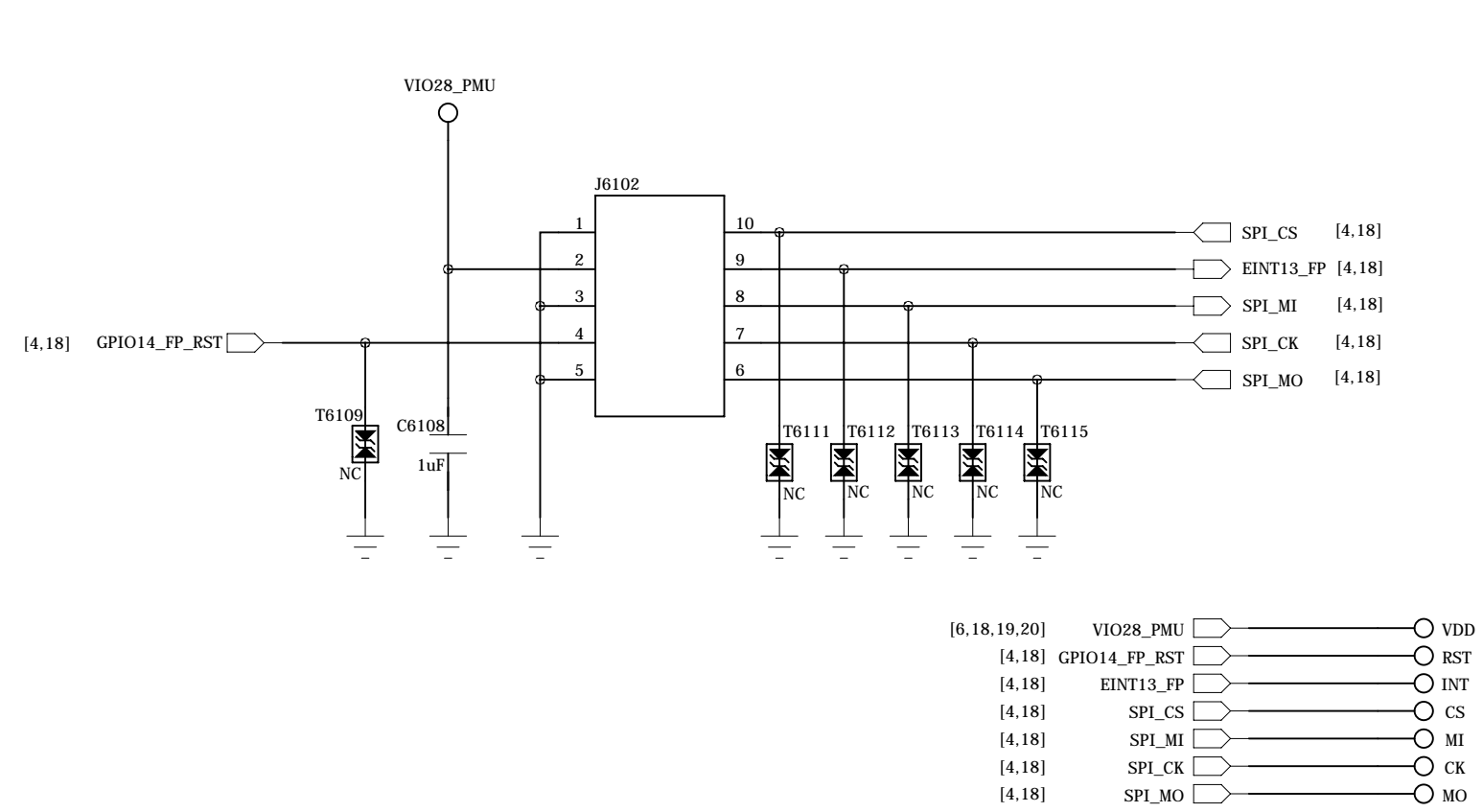
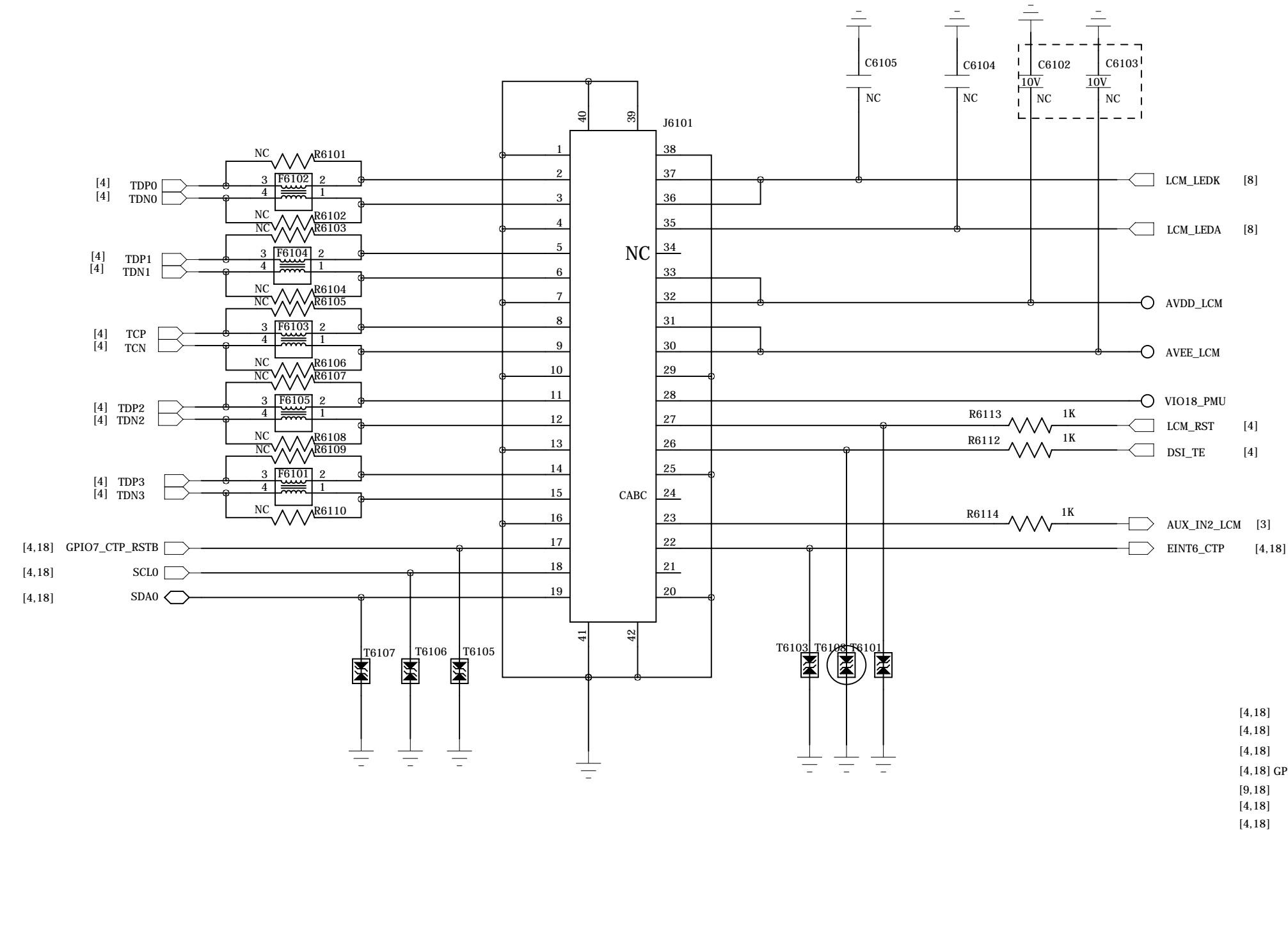
PERI_LCM_CTP_IO_FP

LCD_CTP_INTERFACE

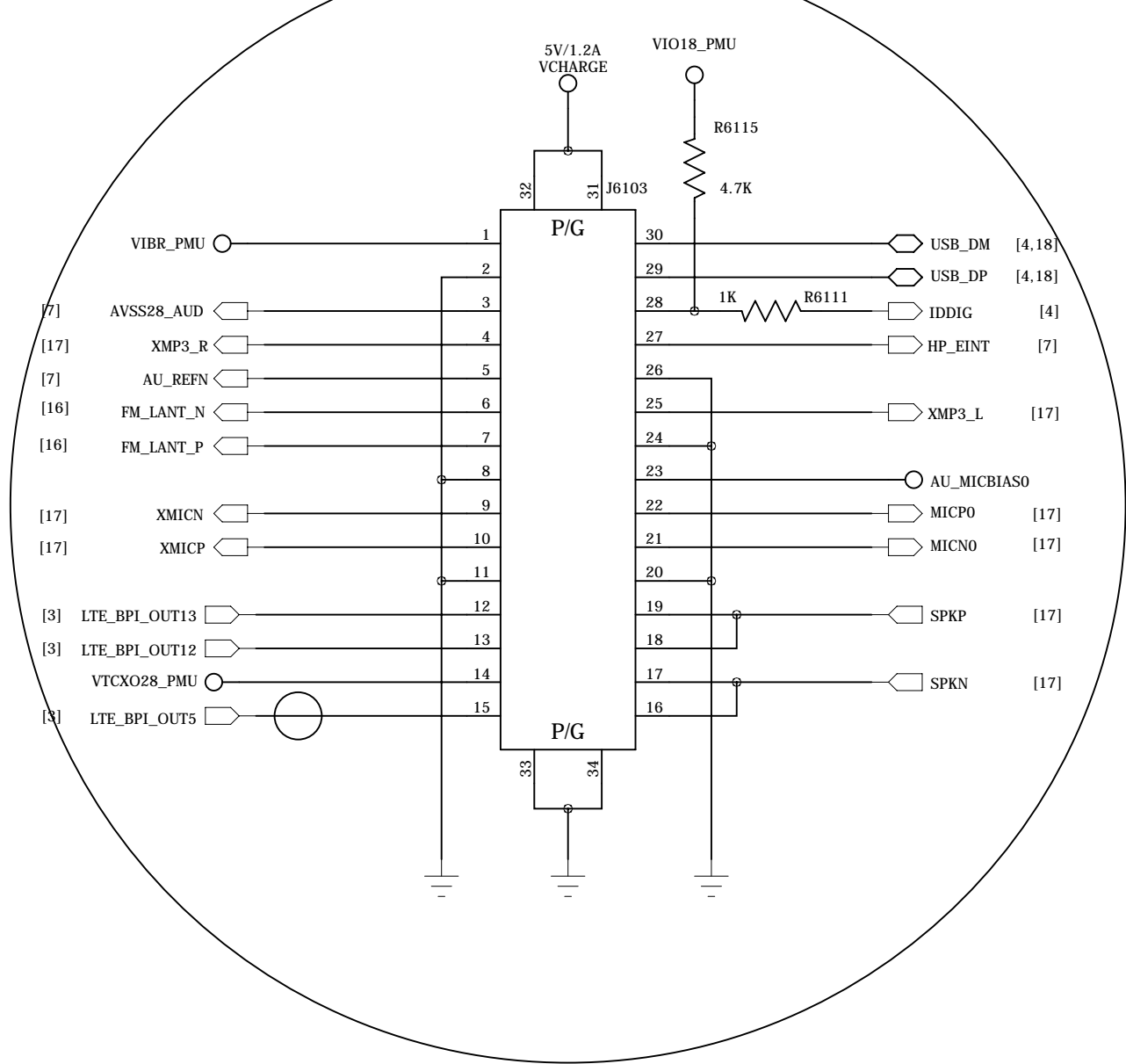
TP£ ¨ NT36572A£ © I2C address:write:0x02,read:0x03

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

FINGER PRINT



IO_INTERFACE



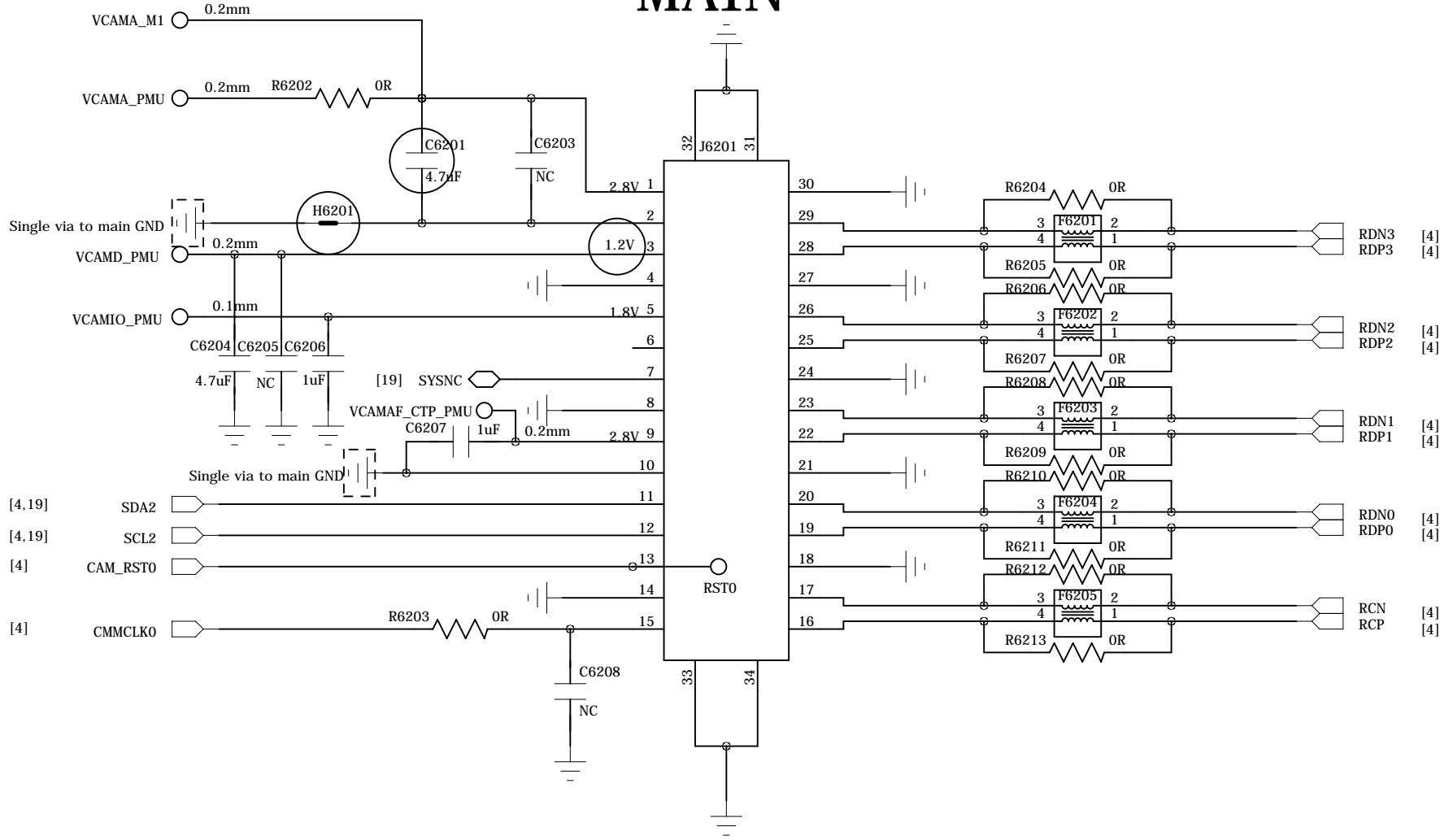
COMPANY: TRANSSION HOLDINGS				MODEL: H399		Modified Date: 2018/4/28	
DRAWN	PAN	DATED	20180329	TITLE: 61_PERI_LCM_CTP_IO_FP		VERSION: V0.1	SHEET: 18 OF 21
CHECKED	<CHECKED>	DATED	< >	Confidentiality	CONFIDENTIAL		

PERI_CAMERA

REAR CAMERA Wide (13M+ AF)

Back camera 1 (S5K3L8XXM3-FGX9) I2C address: (Write:0x20, Read:0x21)
Drv IC(DW9718S) I2C address: (Write:0x18, Read:0x19)
EEPROM IC(BL24SA64-CS) I2C address: (Write:0xA0, Read:0xA1)

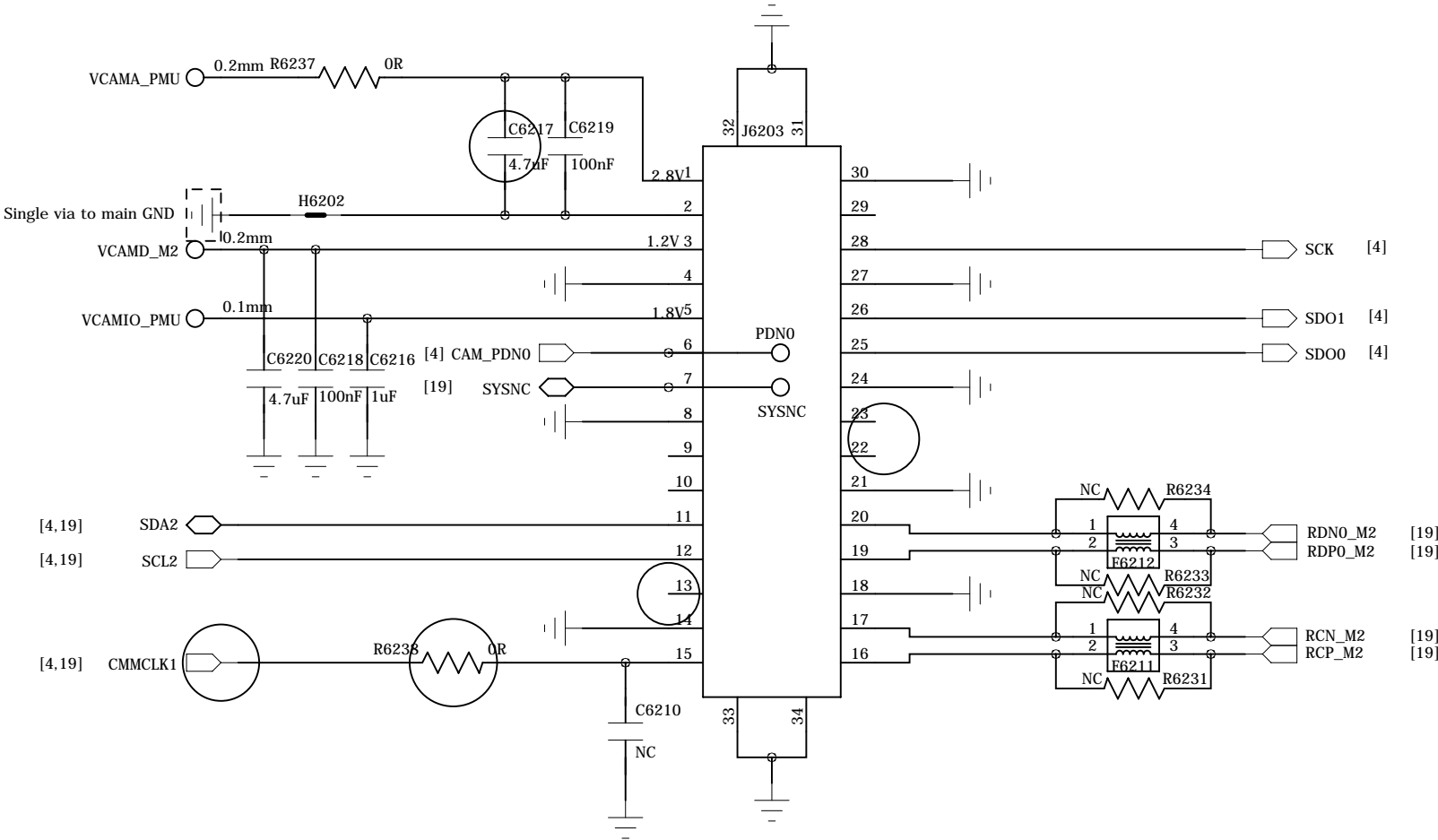
MAIN



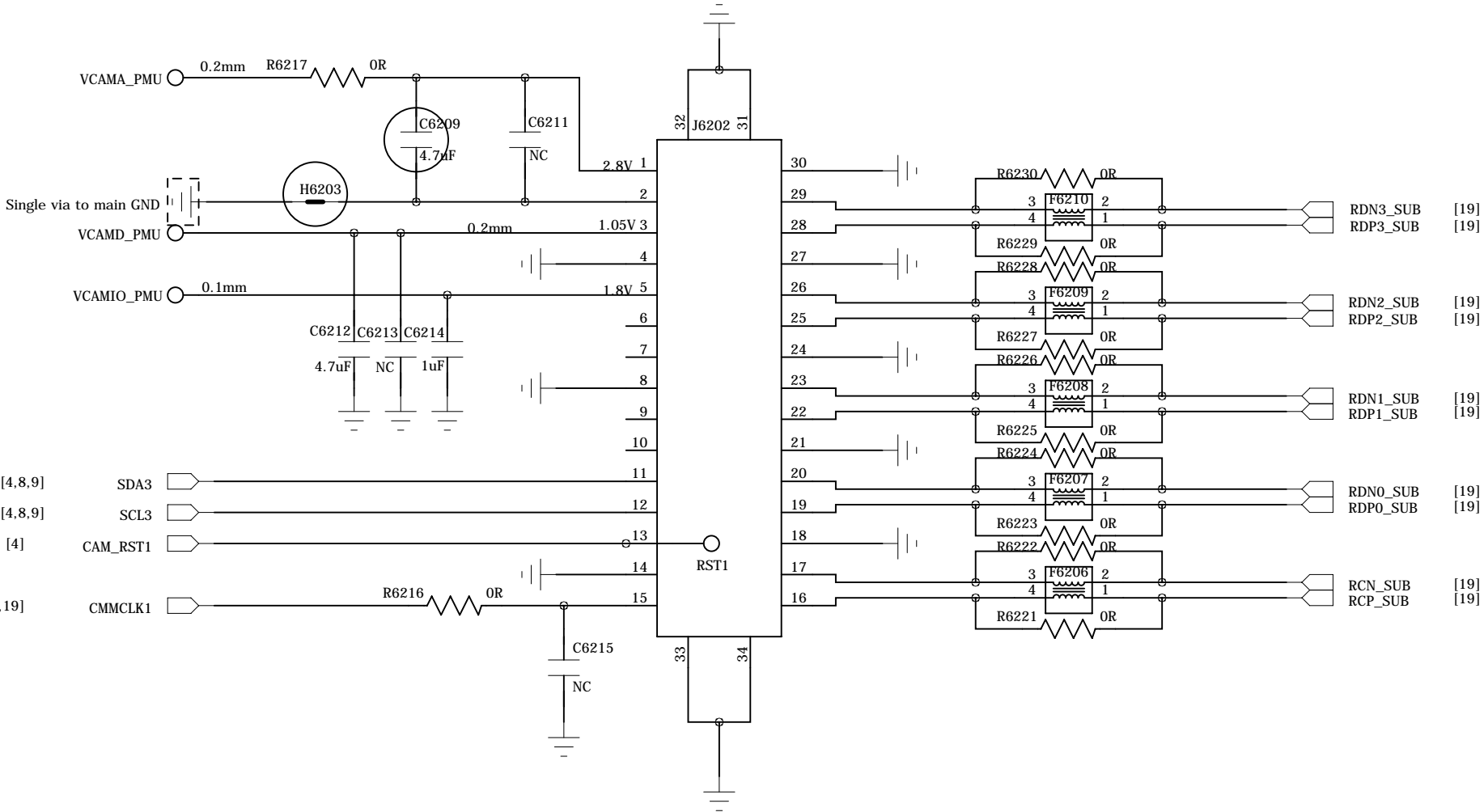
REAR CAMERA Tele (2M)

Back camera(GC2905) I2C address: (Write:0x6E, Read:0x6F)

SUB

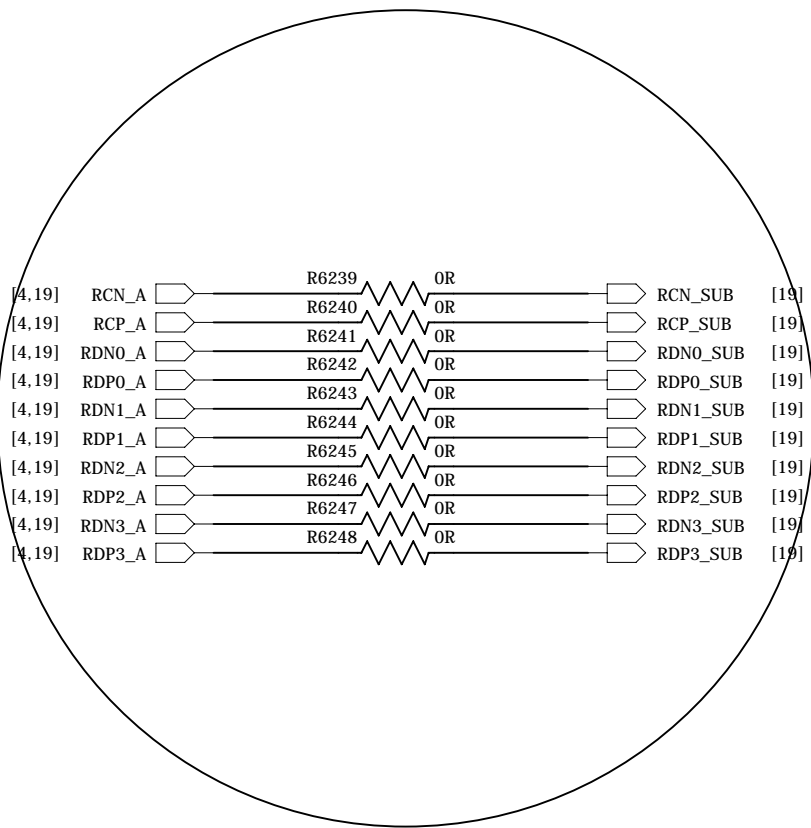
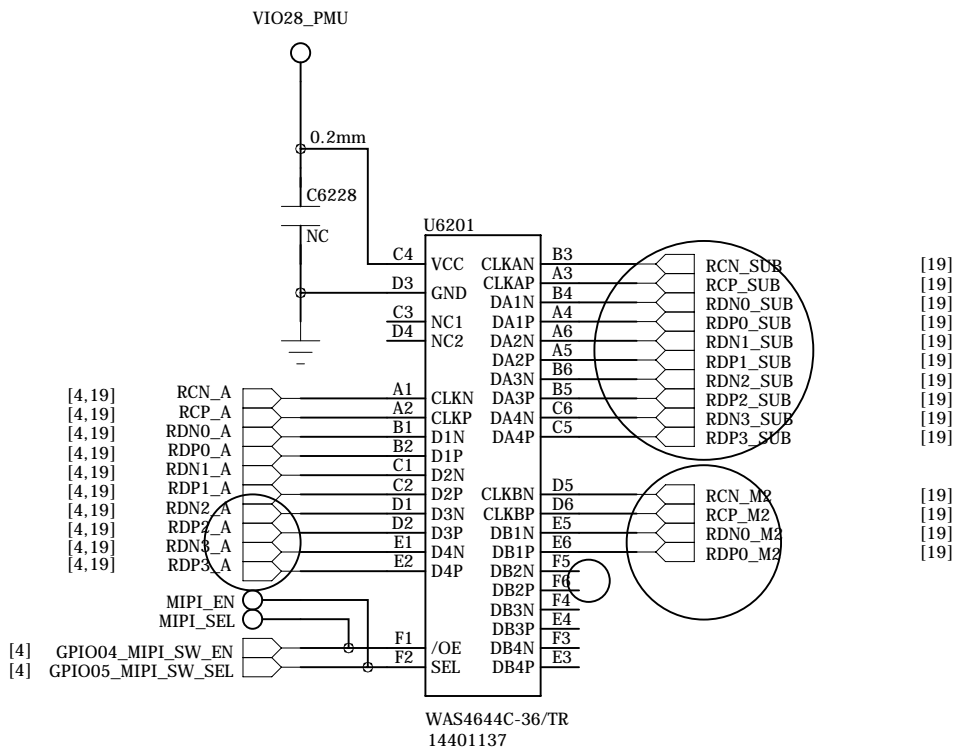


FRONT CAMERA



13M: Front camera(S5K3L6XX03-FGX9) I2C address: (Write:0x5A Read:0x5B)
EEPROM IC(GT24P64AL-2CSLI-TR) I2C address: (Write:0xA2, Read:0xA3)

CAMERA MIPI SWITCH CIRCUIT



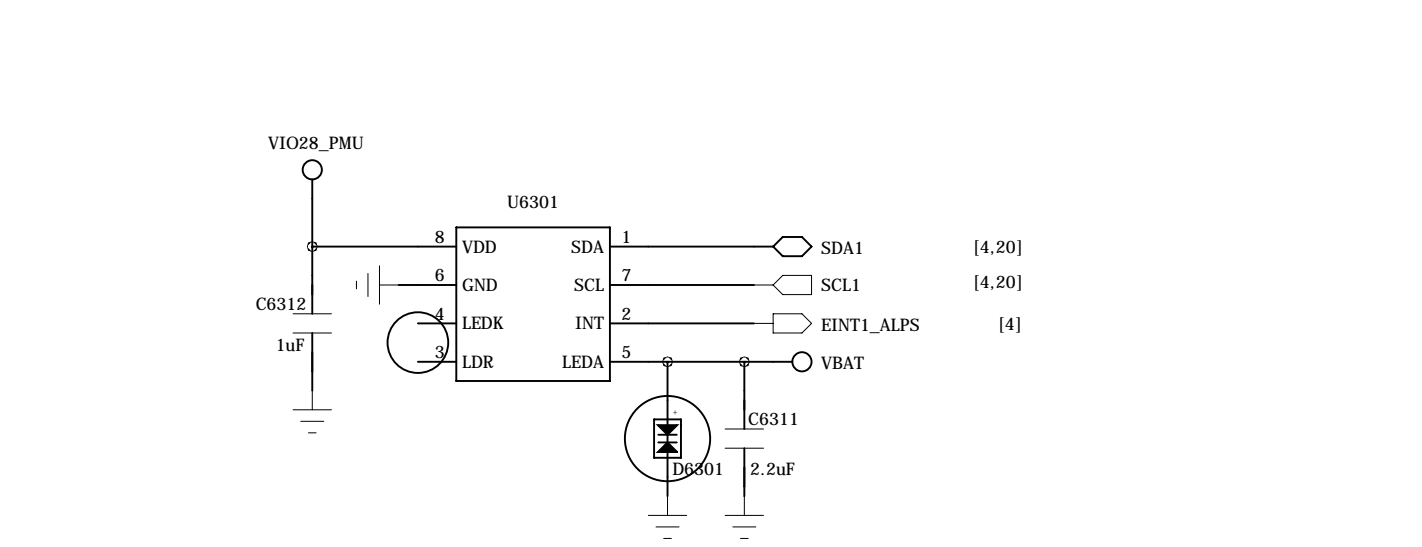
COMPANY: TRANSSION HOLDINGS				MODEL: H399		Modified Date: 2018/4/28	
DRAWN	PAN	DATED	20180329	TITLE: 62_PERI_CAMERA		VERSION: V0.1	SHEET: 19 OF 21
CHECKED	<CHECKED>	DATED	< >	Confidentiality	CONFIDENTIAL		

PERI_SENSORS

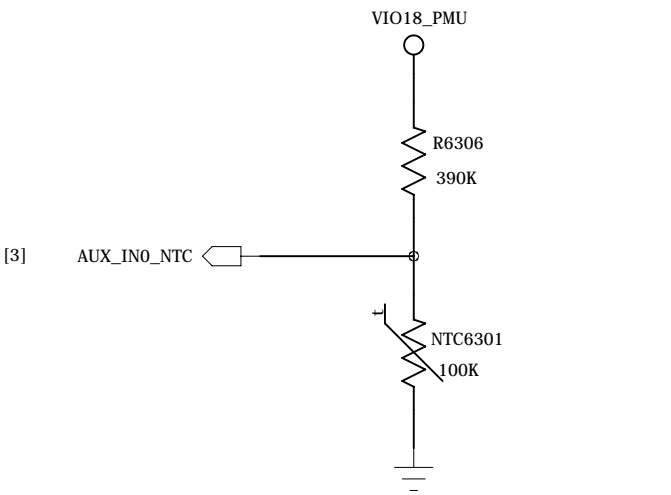
REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

AL& PS Sensor

STK3321:12C address: Write:0x90, Read:0x91



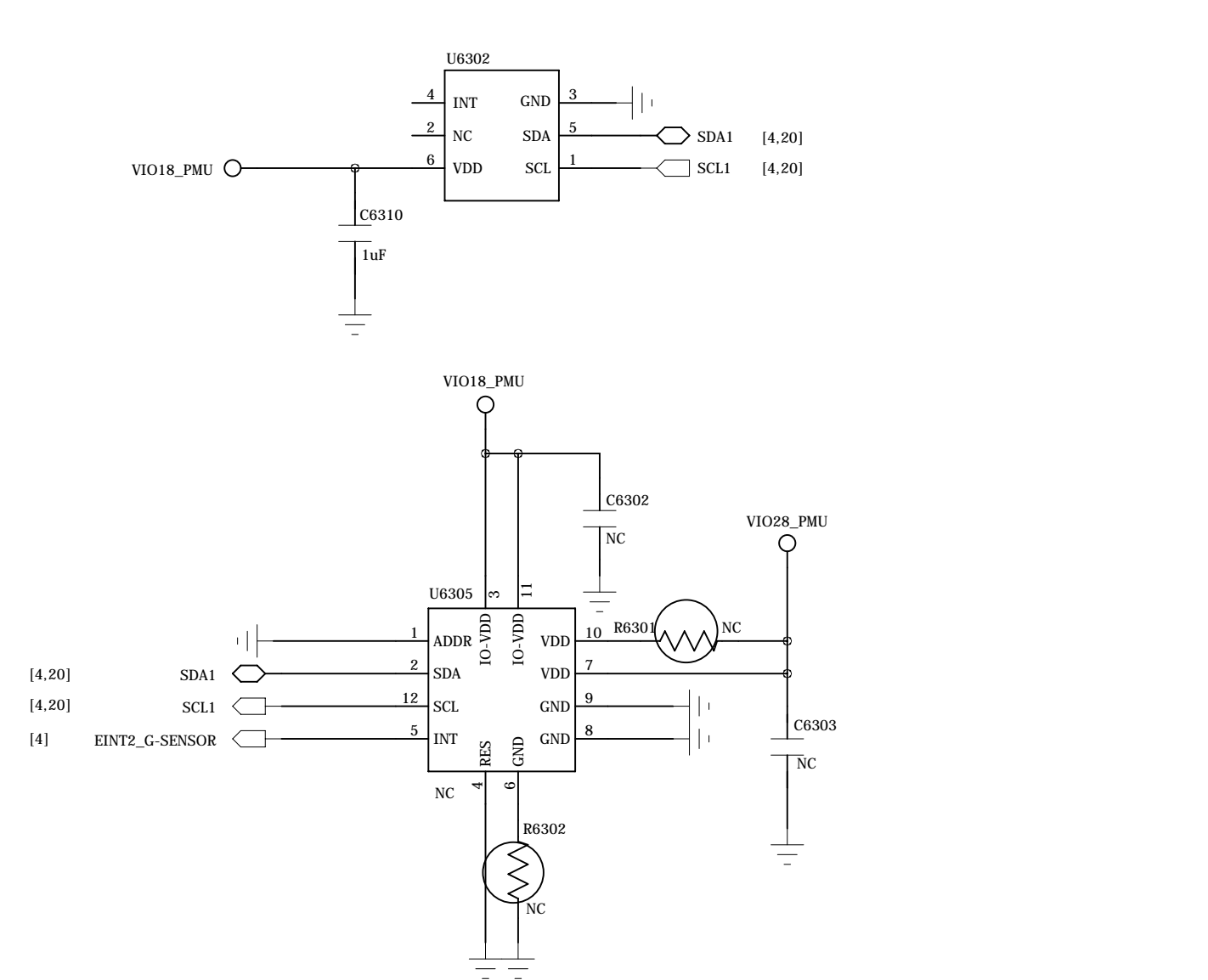
Thermister



To sense board level temperature
NTC6301 close to BB ,and located in the same layer
Keep 5~8mm to AP, and far to other heat source
(can refer to thermal design notice)

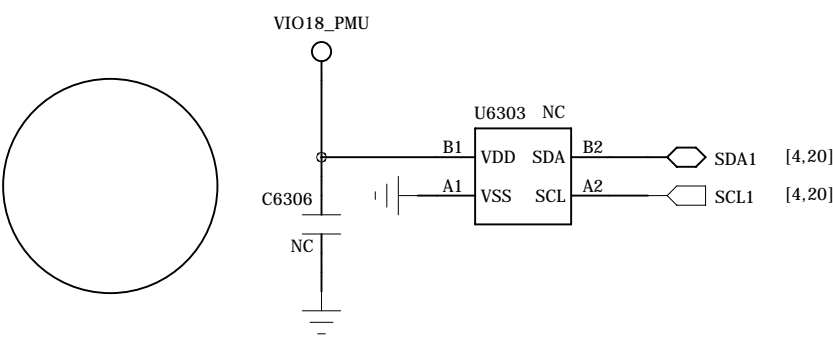
G-Sensor

MXC4005:12C ADDRESS:0x2A(Write)/0x2B(Read)

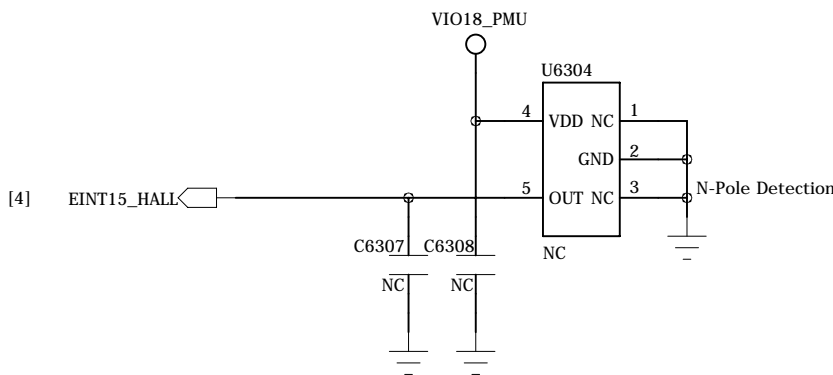


M-Sensor(COMPASS)

AK09918C-L:12C ADDRESS:0x18(Write)/0x19(Read)



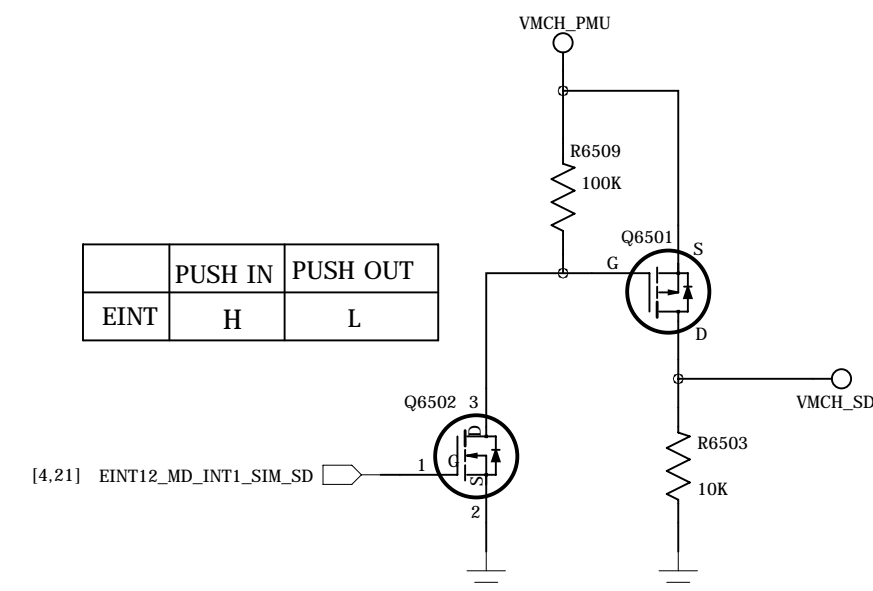
Unipolar HALL



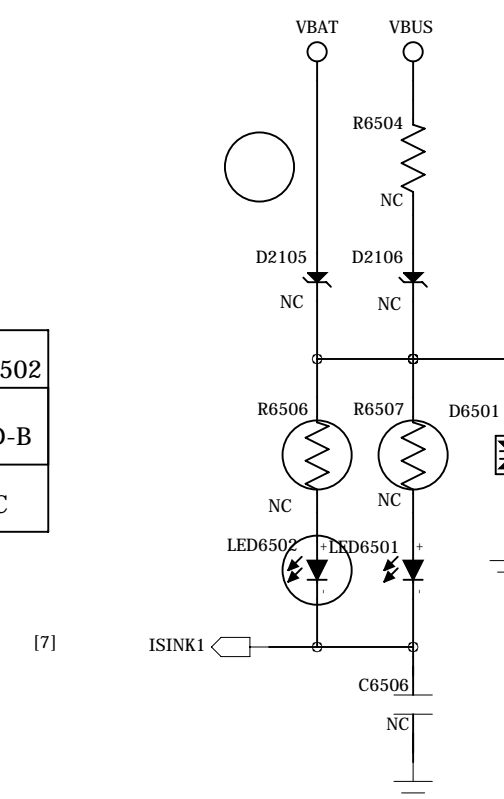
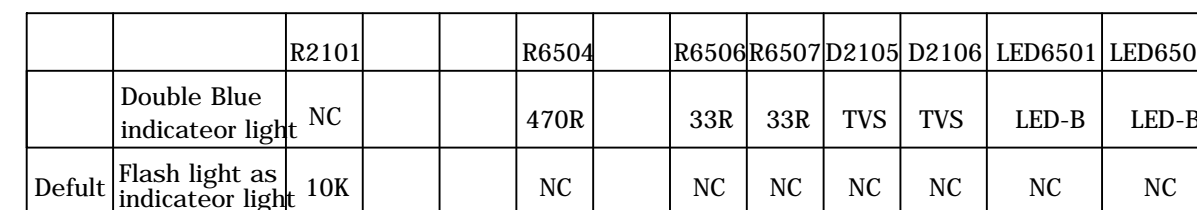
COMPANY: TRANSSION HOLDINGS				MODEL: H399		Modified Date: 2018/4/28	
DRAWN	PAN	DATED	20180329	TITLE: 63_PERI_SENSORS		VERSION: V0.1	SHEET: 20 OF 21
CHECKED	<CHECKED>	DATED	< >	Confidentiality	CONFIDENTIAL		

SD POWER CONTROL

SIM-SD-CARD



Charge lamp



COMPANY: TRANSSION HOLDINGS				MODEL: H399		Modified Date: 2018/4/28	
DRAWN	PAN	DATED	20180329	TITLE: 65_PERI_SIM_SD		VERSION: V0.1	SHEET: 21 OF 21
CHECKED	<CHECKED>	DATED	< >	Confidentiality	CONFIDENTIAL		