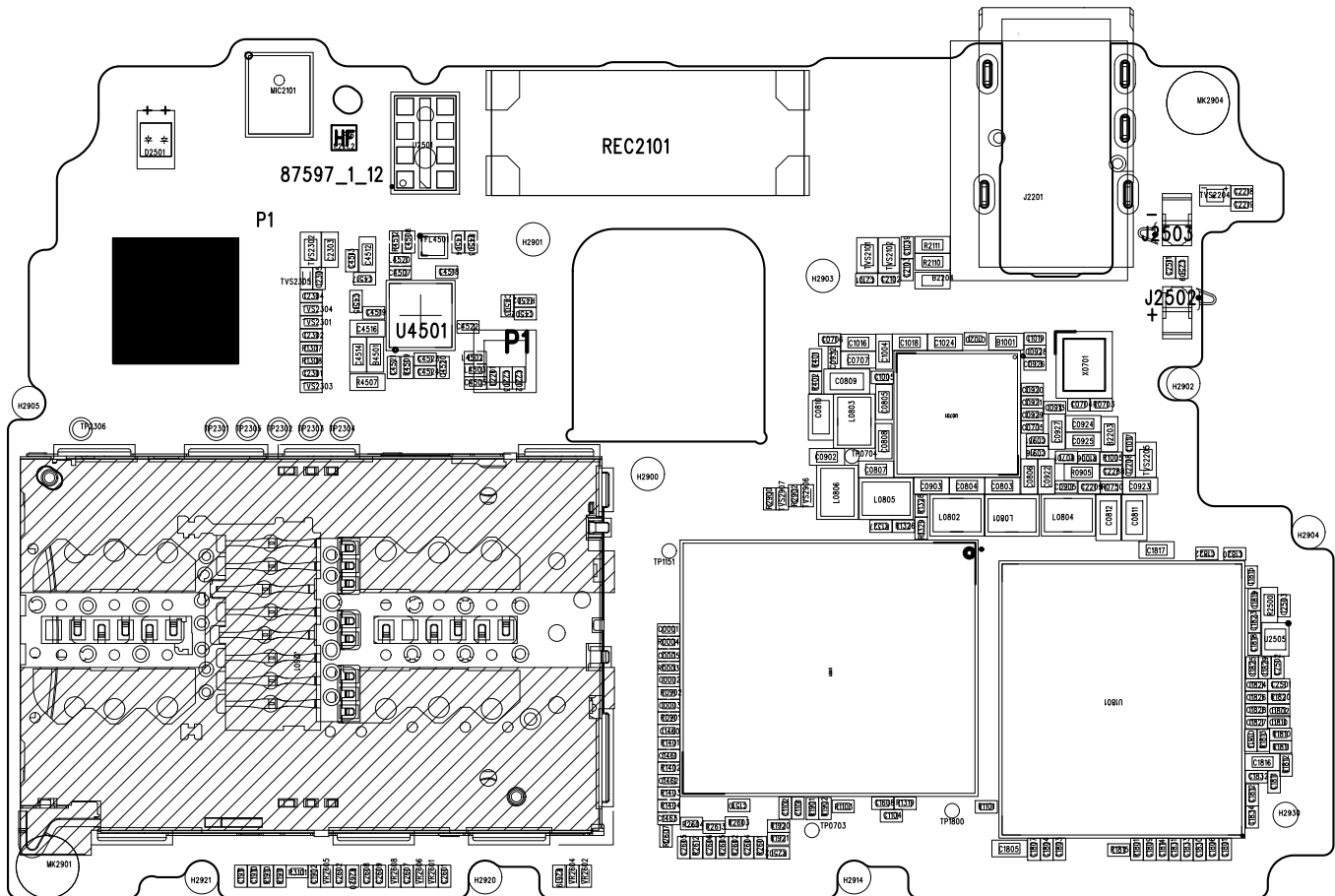
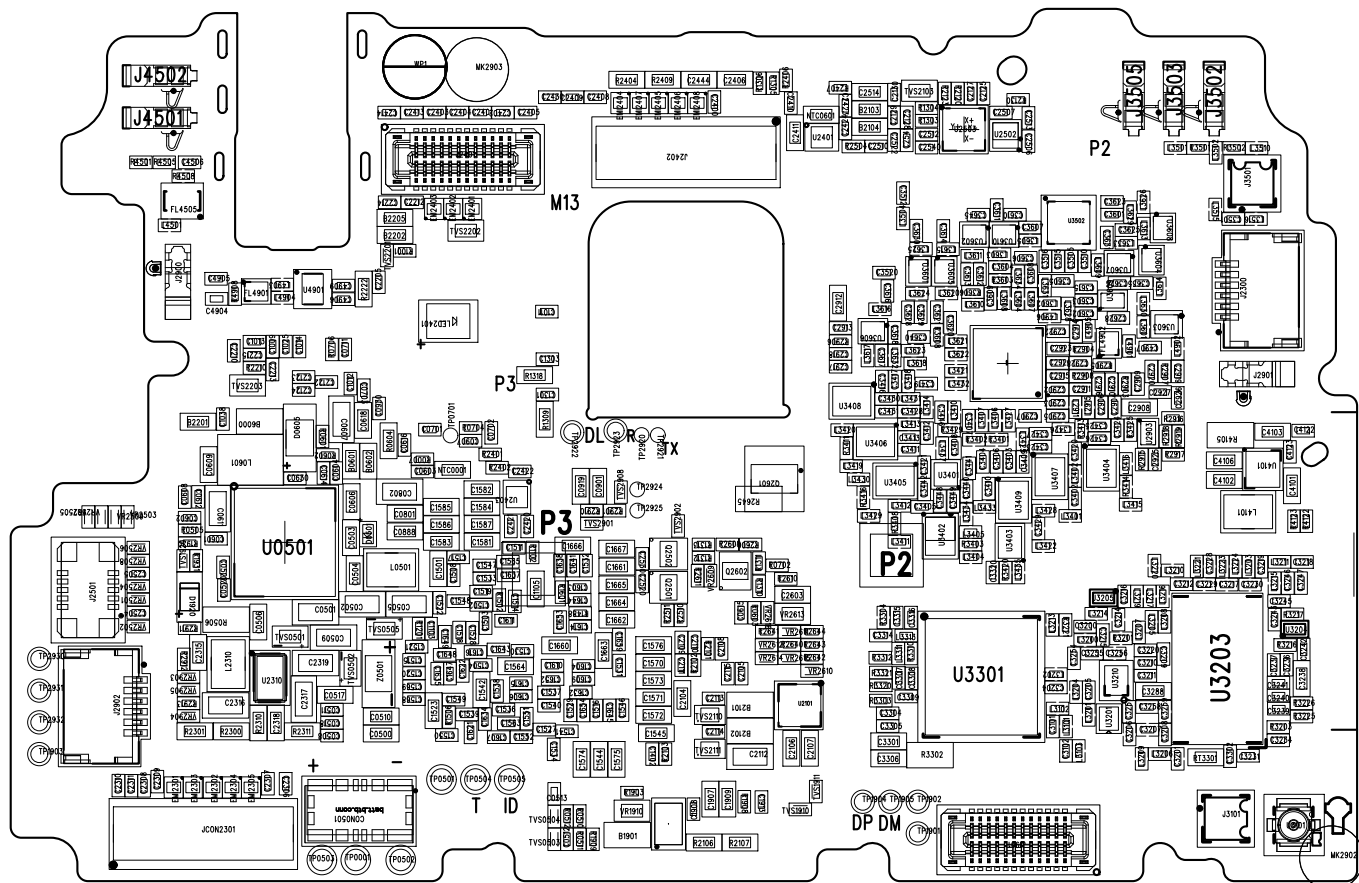
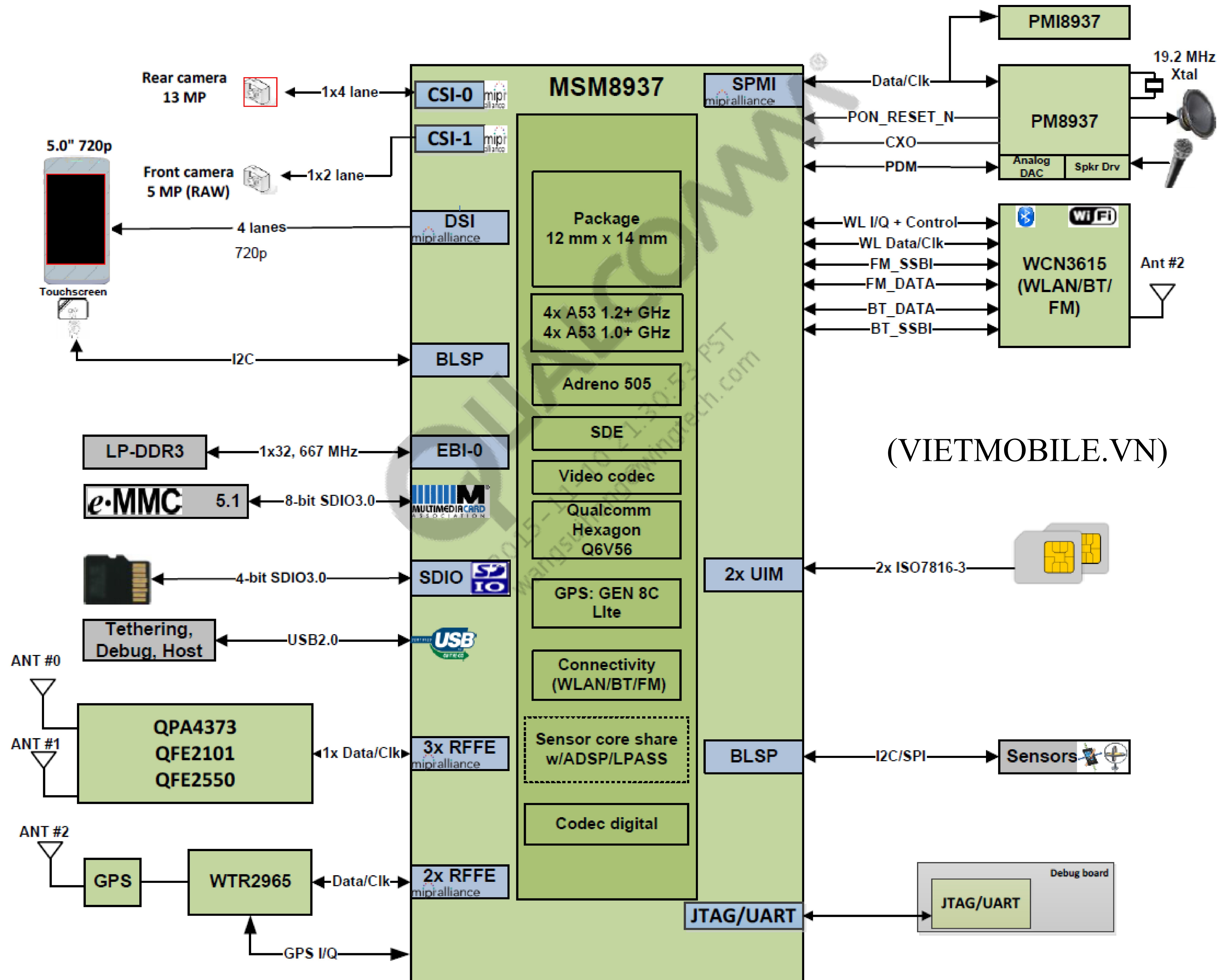


(VIETMOBILE.VN)



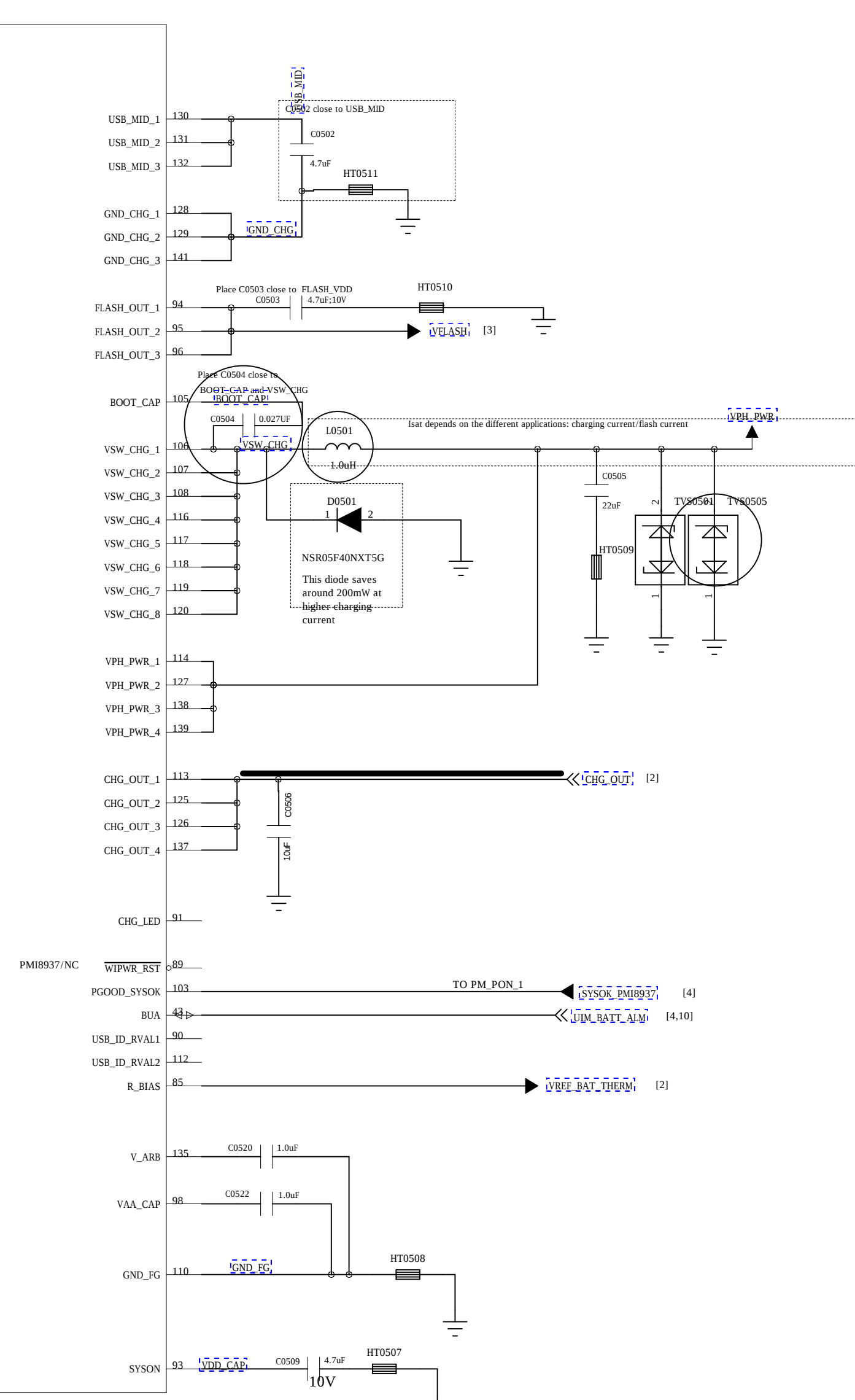
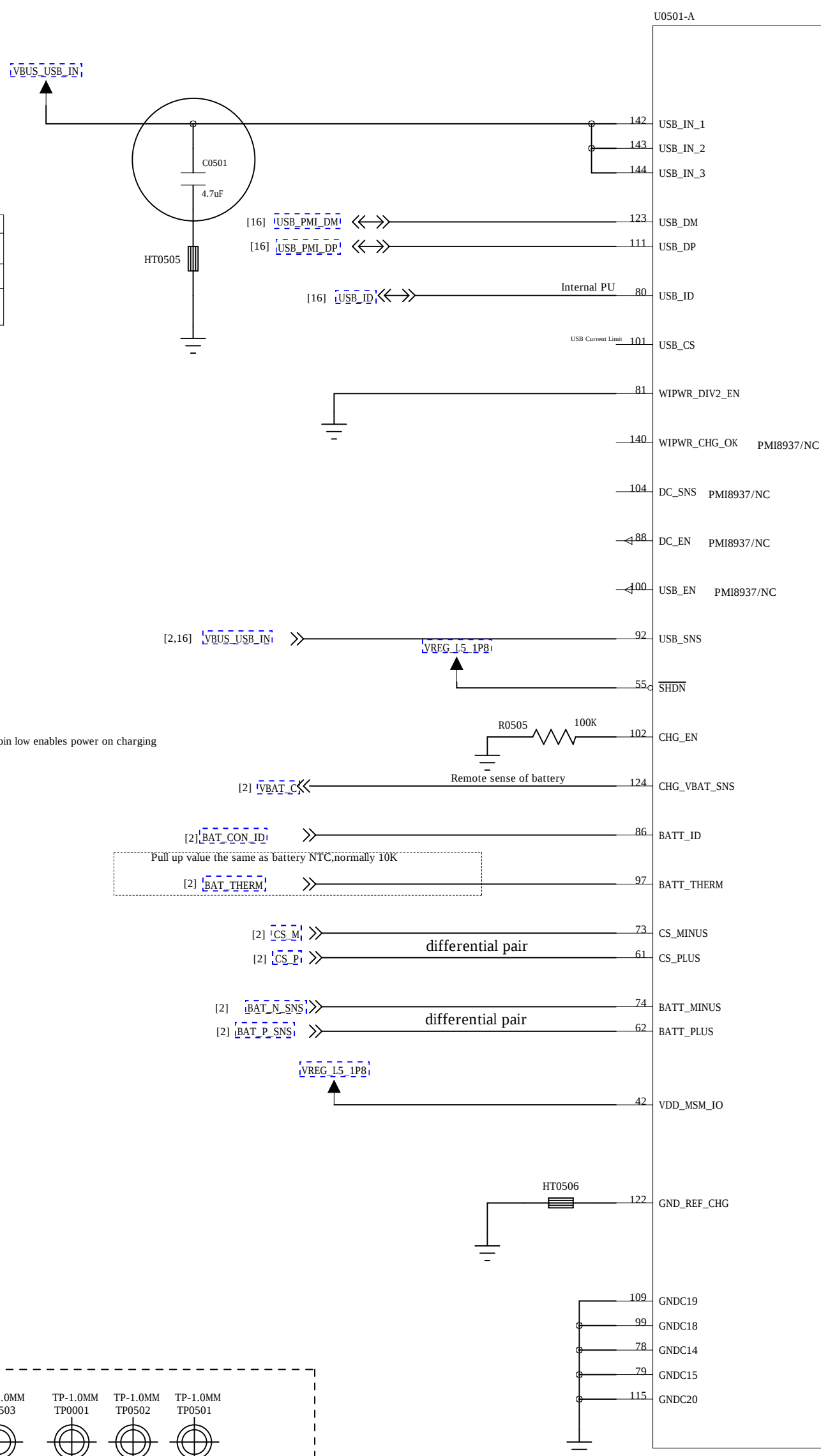
(VIETMOBILE.VN)



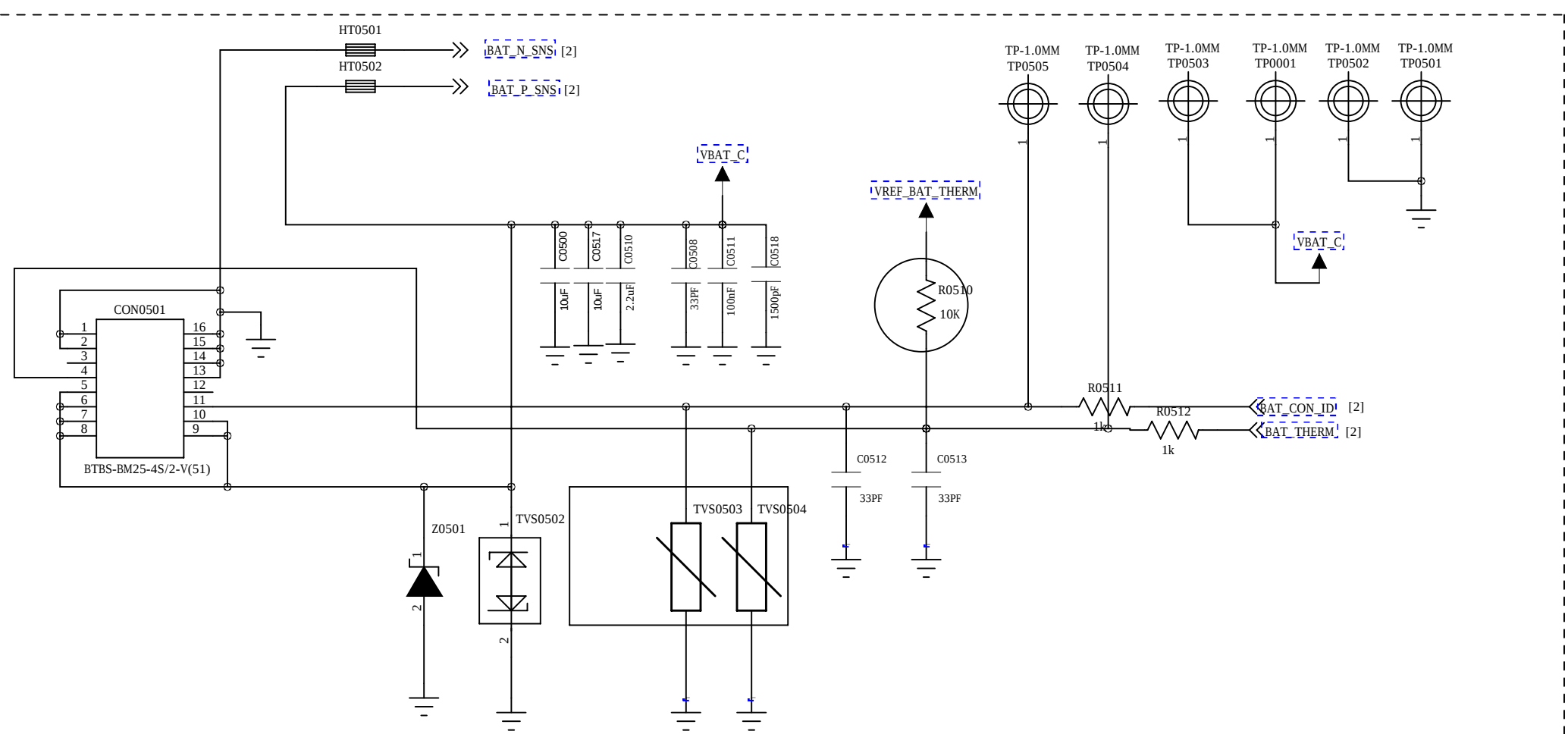


(VIETMOBILE.VN)

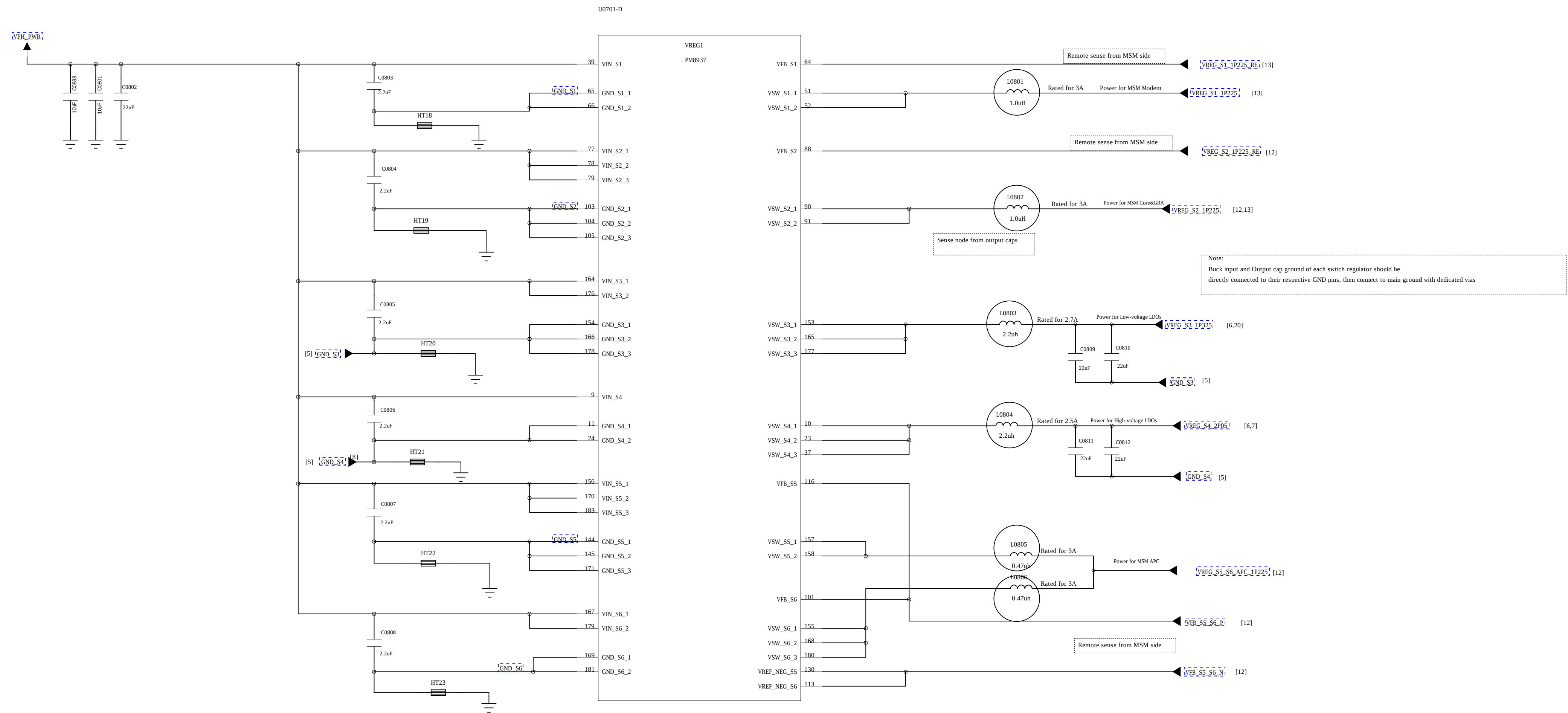
PMI PIN	connection on device without Wipower	connection on device with Wipower
CHG_OK	Pull up to VDD_CAP with 51kohm	Stark PRU CHG_OK
DIV2_EN	Pull down to GND with 0ohm	Stark PRU DIV2_EN
GPIO2	No Connect	10Kohm pull down to gnd

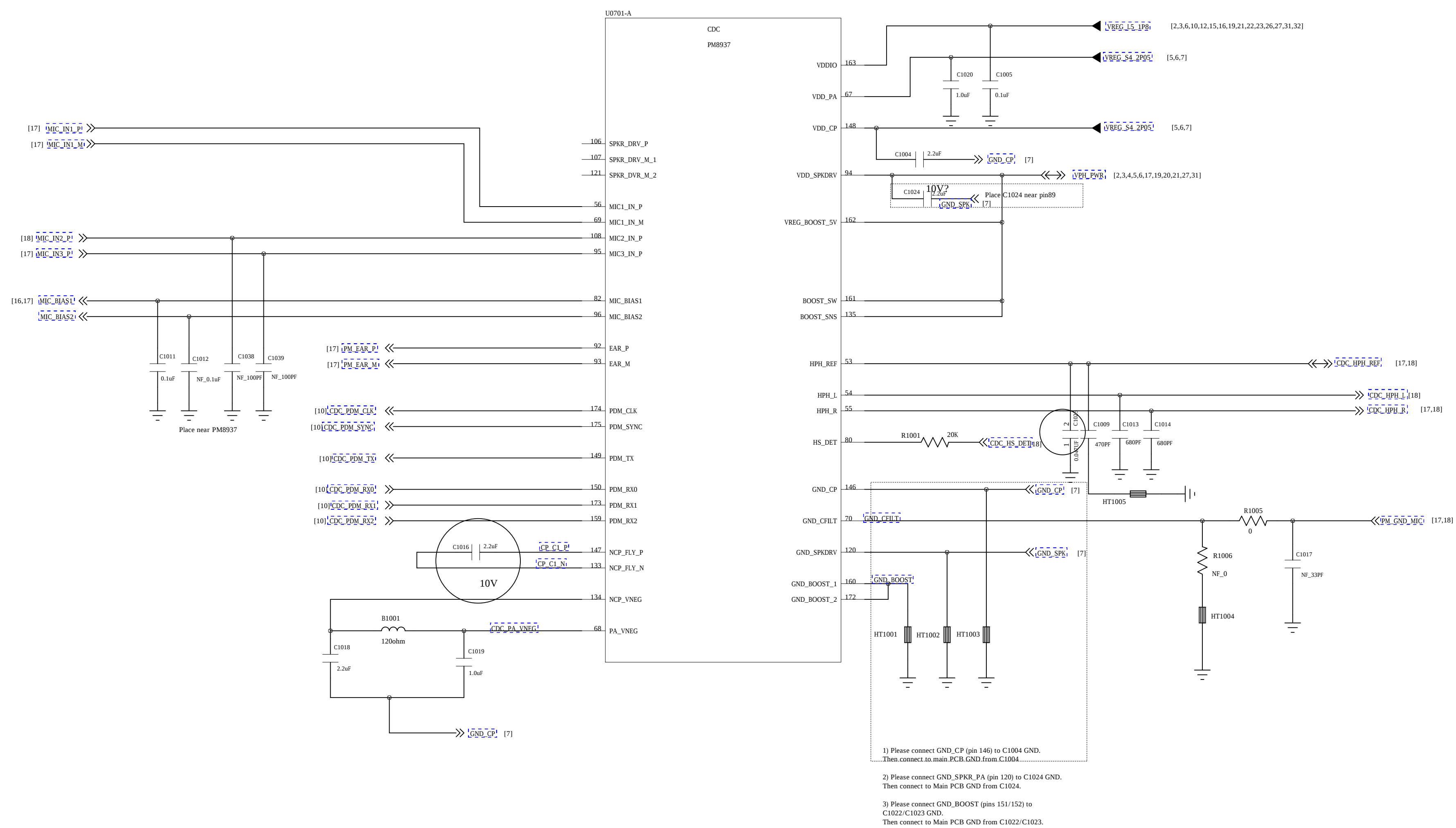


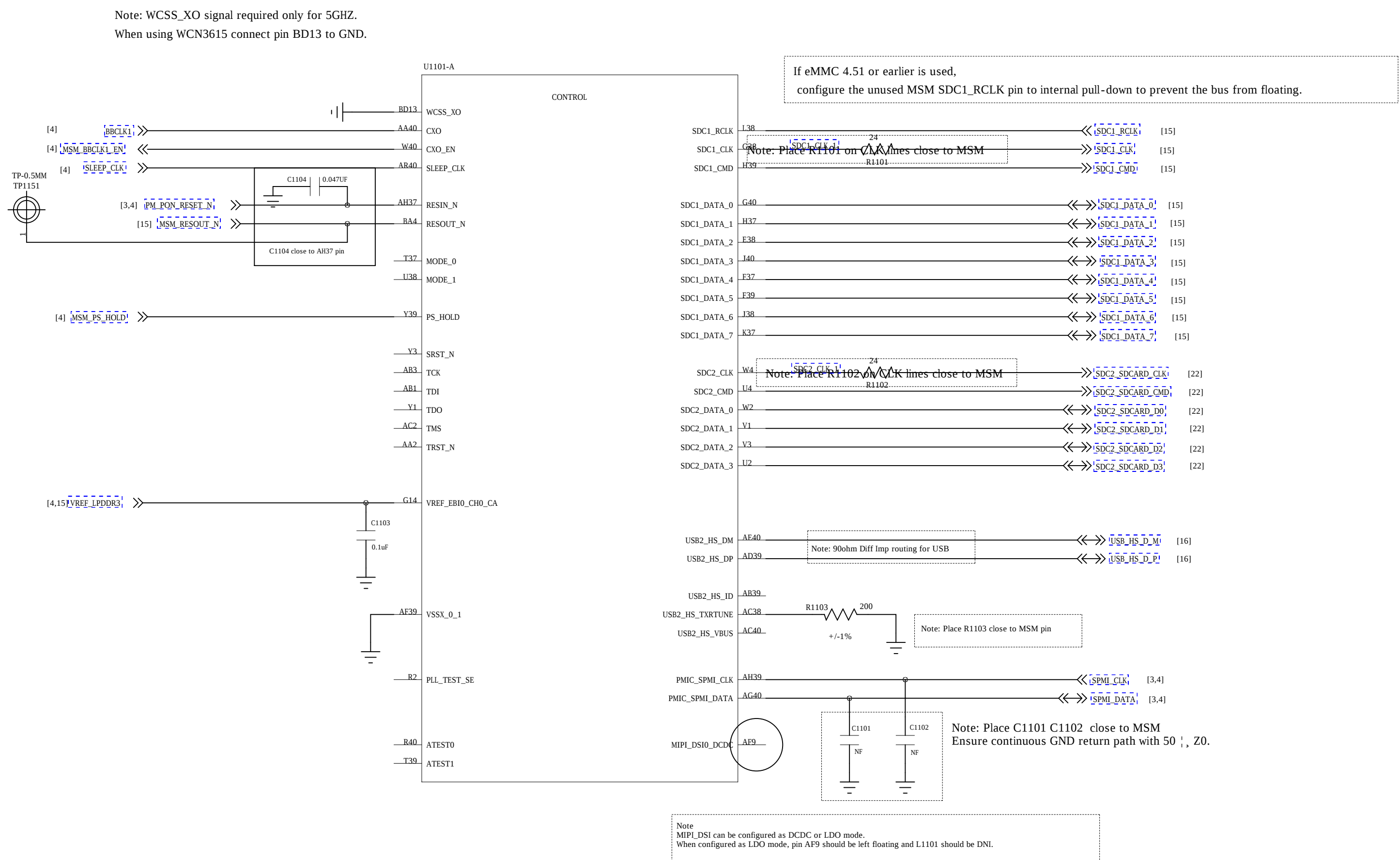
PMI_VDD_CAP net is 5VDC, cap is 0603.
Do not use 0402 as may derate to -80%.



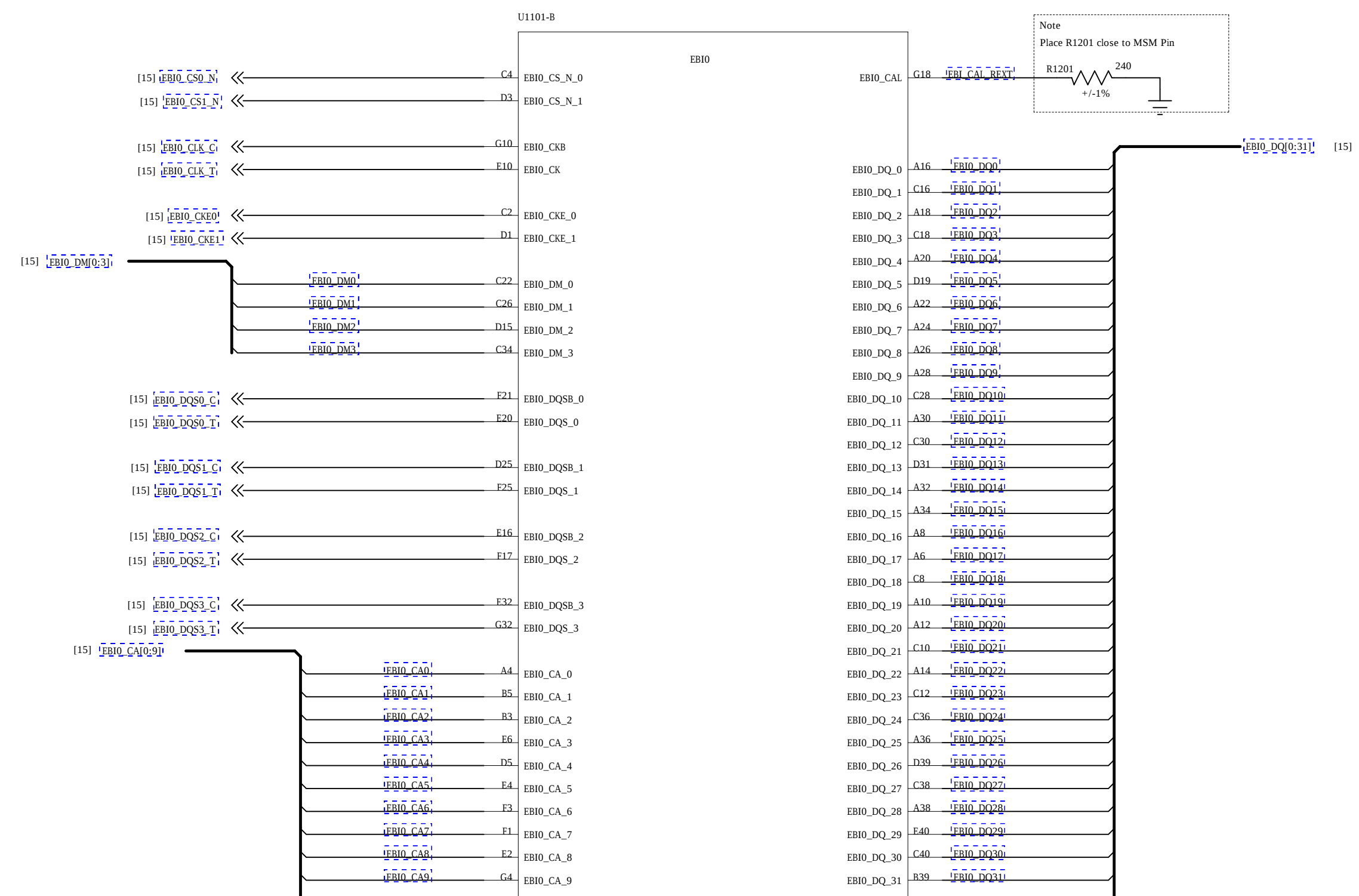
$\text{Bi}^{\text{I}}\text{A}^{\text{I}}$	$\cdot\tilde{\Delta}^{\text{I}+\text{I}}\tilde{\Sigma}^{\text{I}}$	$\mu\tilde{\text{C}}\tilde{\text{D}}^{\text{I}}\tilde{\Sigma}^{\text{I}}$	$\mu\tilde{\text{C}}\tilde{\text{D}}\tilde{\text{E}}\tilde{\text{C}}\tilde{\text{D}}^{\text{I}}$	$\mu\tilde{\text{C}}\tilde{\text{D}}\tilde{\text{E}}\tilde{\text{Y}}\tilde{\Delta}_{\text{I}}$	$\text{ID}^{\text{I}}\cdot\tilde{\kappa}\tilde{\Theta}_{\text{I}}$
BB-4053750CIV	EL-DE	LG	4.4V	2530	2608
	MLZ 1	NOVIV	8.4V	2530	1.63K
	YQI	YQI	4.4V	2530	228
	phh	ATL	6.4V	2530	38K



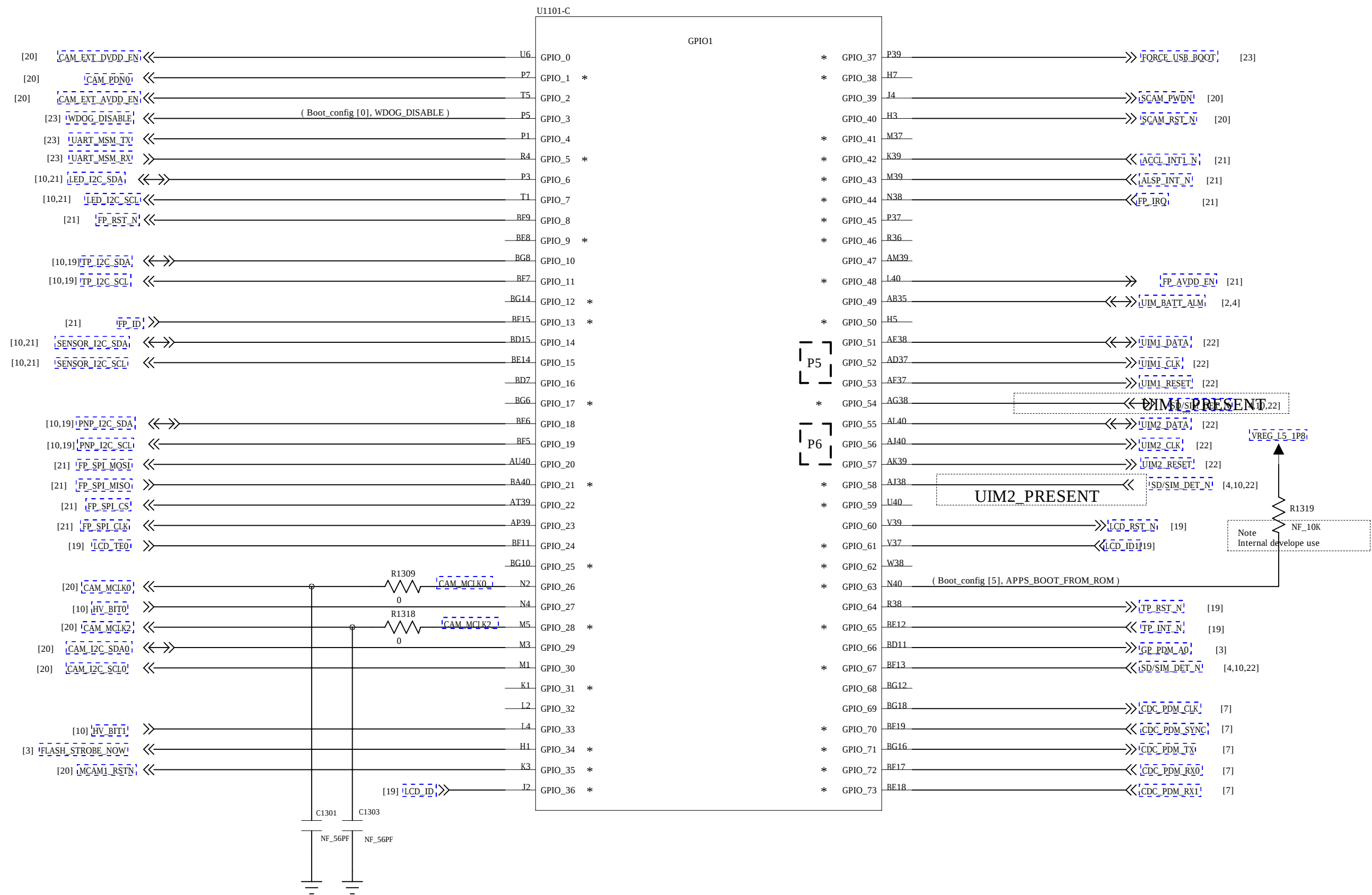




DC-DC mode ~C For better power ~3 mA lower



Note: Asterisks (*) indicate modem power management (MPM) wake-up pins



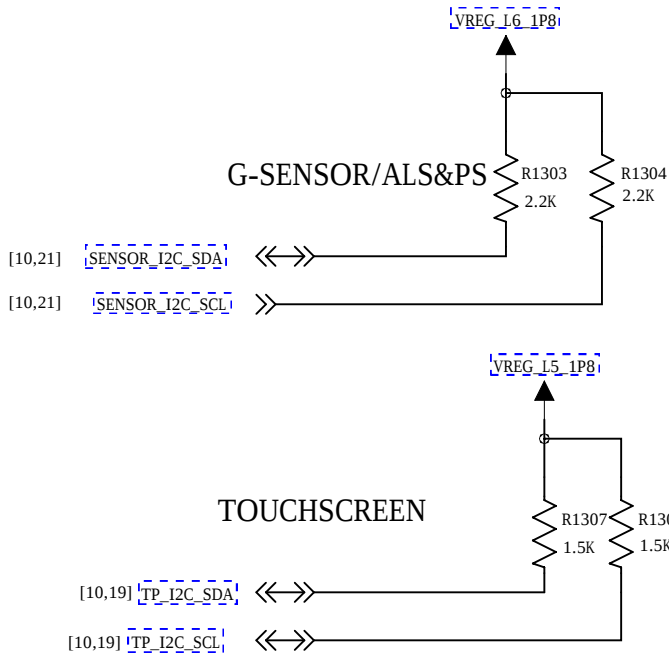
Note: Do not have pull-ups on the following GPIOs unless intend for boot or secure- boot related configurations:
GPIO_91, 107, 109

GPIO	BOOT_CONFIG
GPIO_3	BOOT_CONFIG[0]/WDG_DISABLE
GPIO_111	BOOT_CONFIG[1]
GPIO_112	BOOT_CONFIG[2]
GPIO_88	BOOT_CONFIG[3]

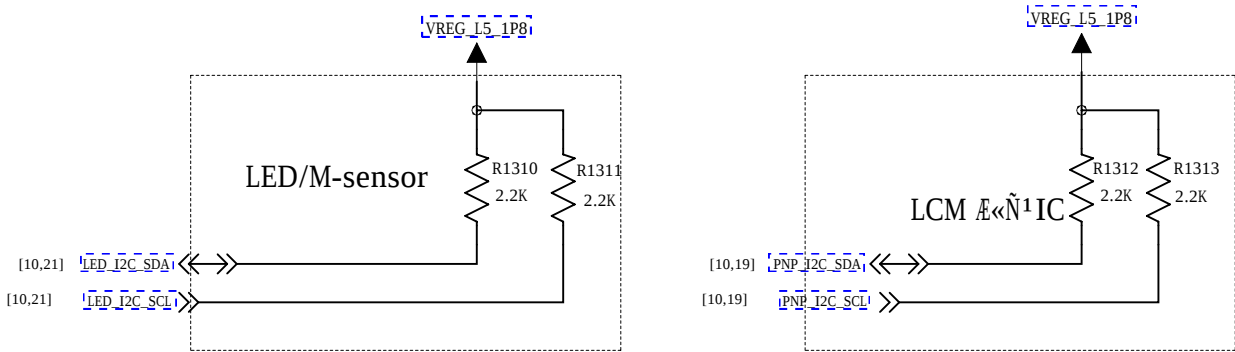
BOOT_CONFIG[3:1]	BOOT_CONFIG
0x000	SDC1 -> SDC2 -> USB2.0
0x010	SDC1
0x100	SDC2 -> SDC1

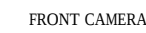
Default Boot Config (0x000) is SDC1(eMMC)

I2C PULL-UP RESISTORS

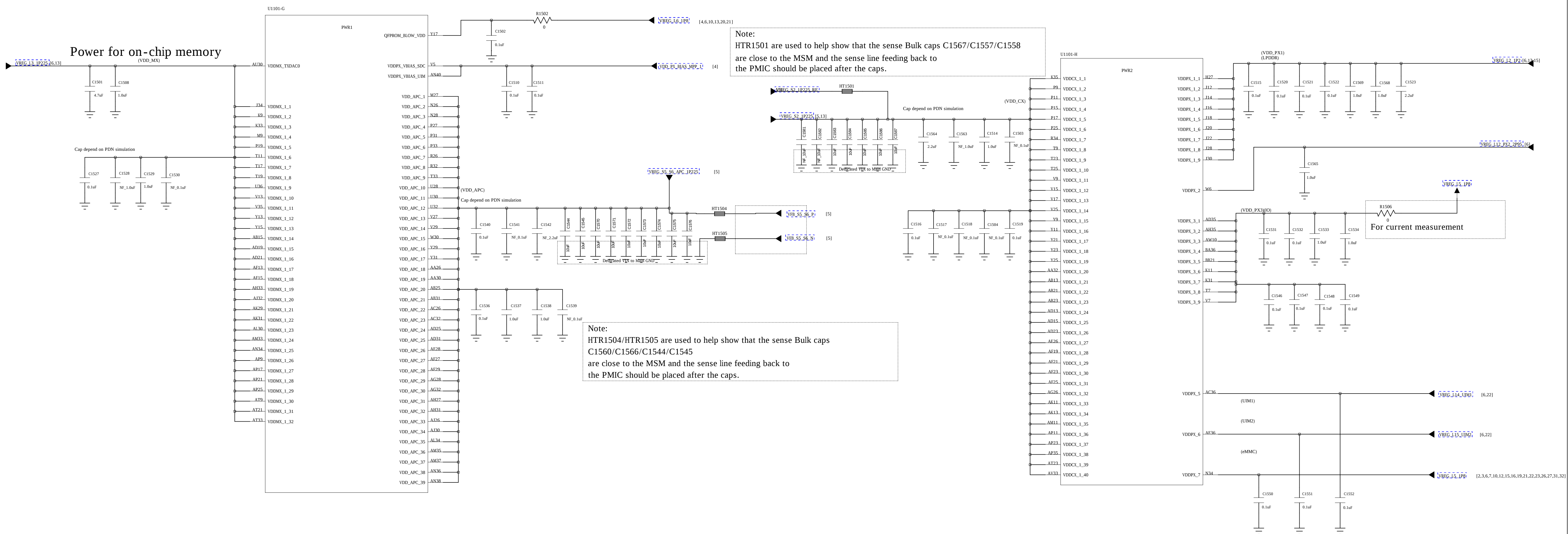


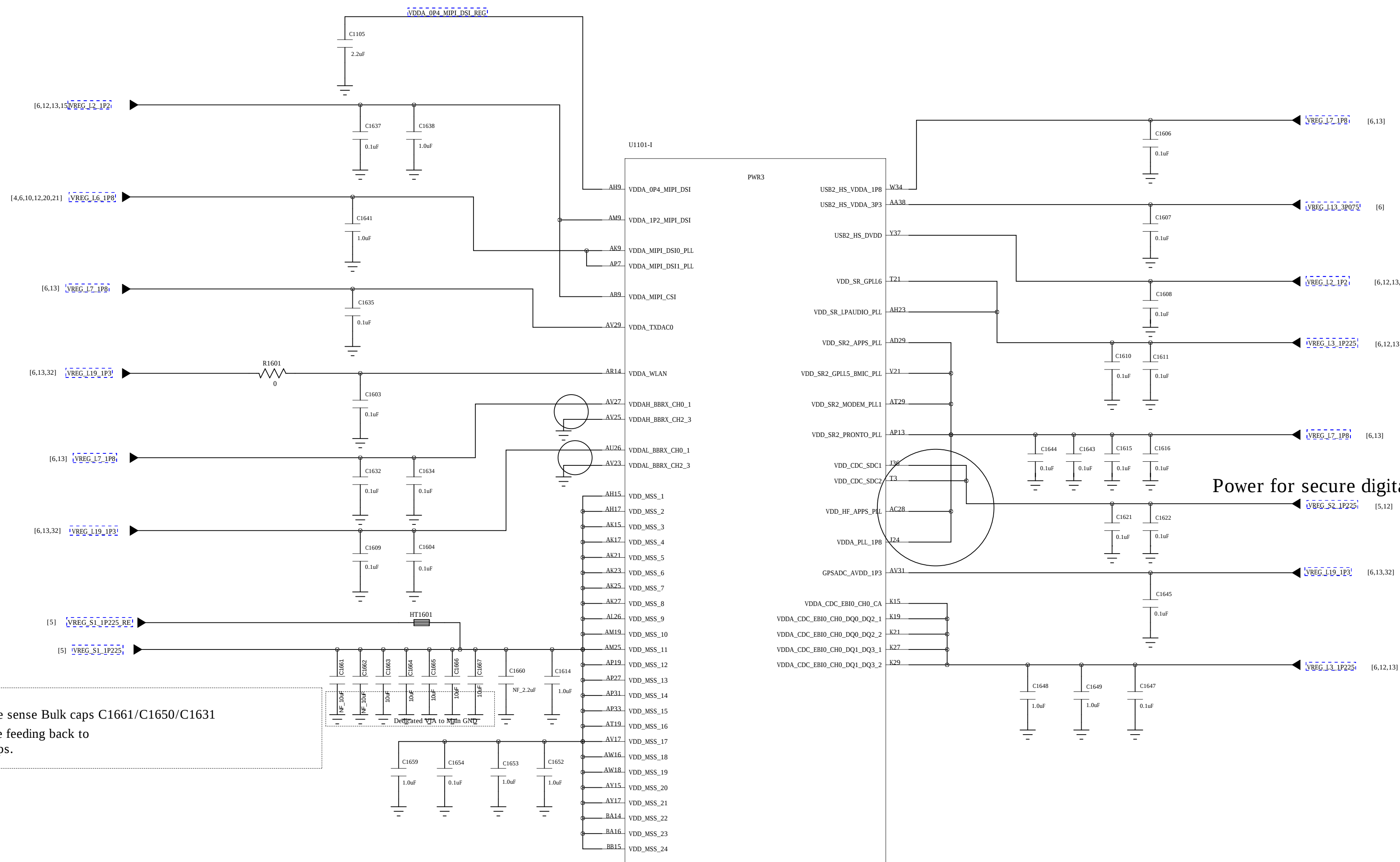
Note: Ensure SW sets these GPIOs (Sensor, CTP and Camera I2C bus) to inout pull down when the peripherals are powered off to eliminate leakage.

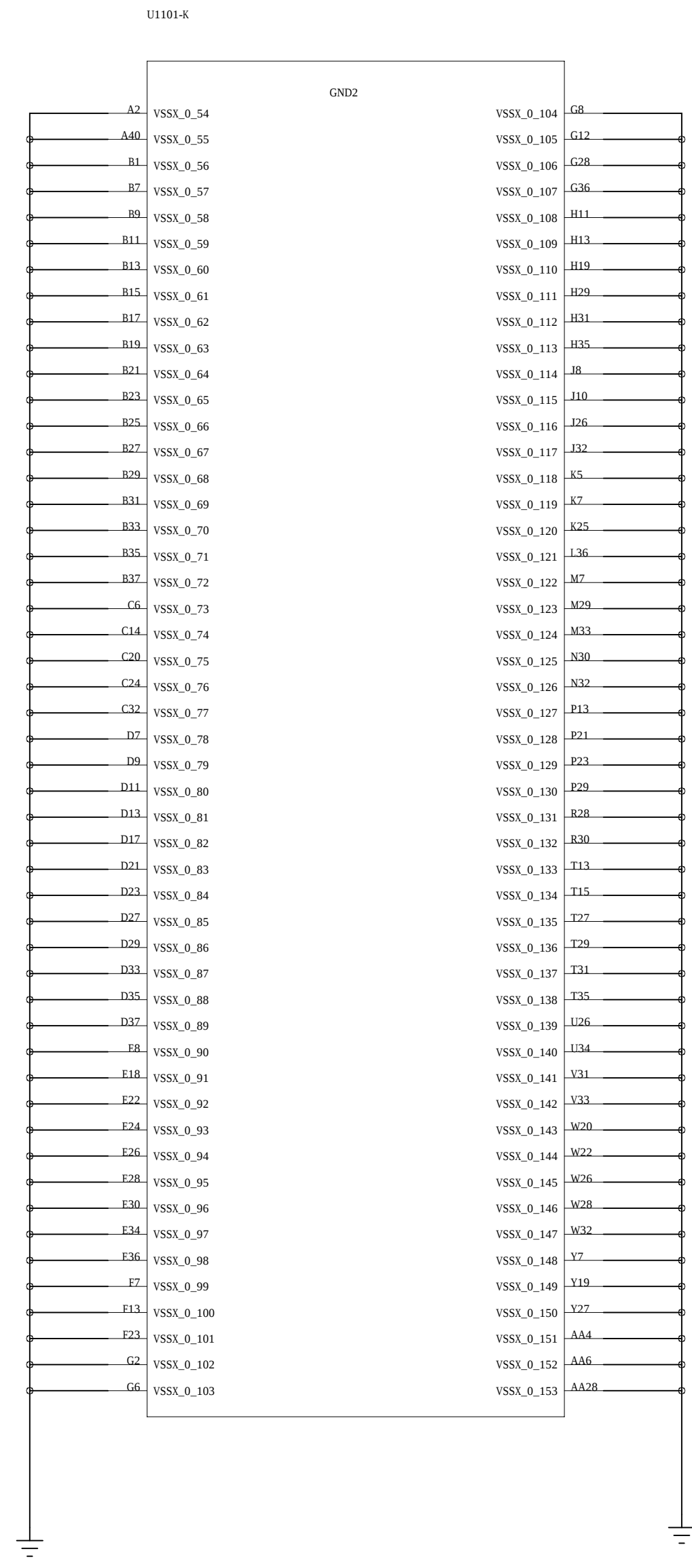
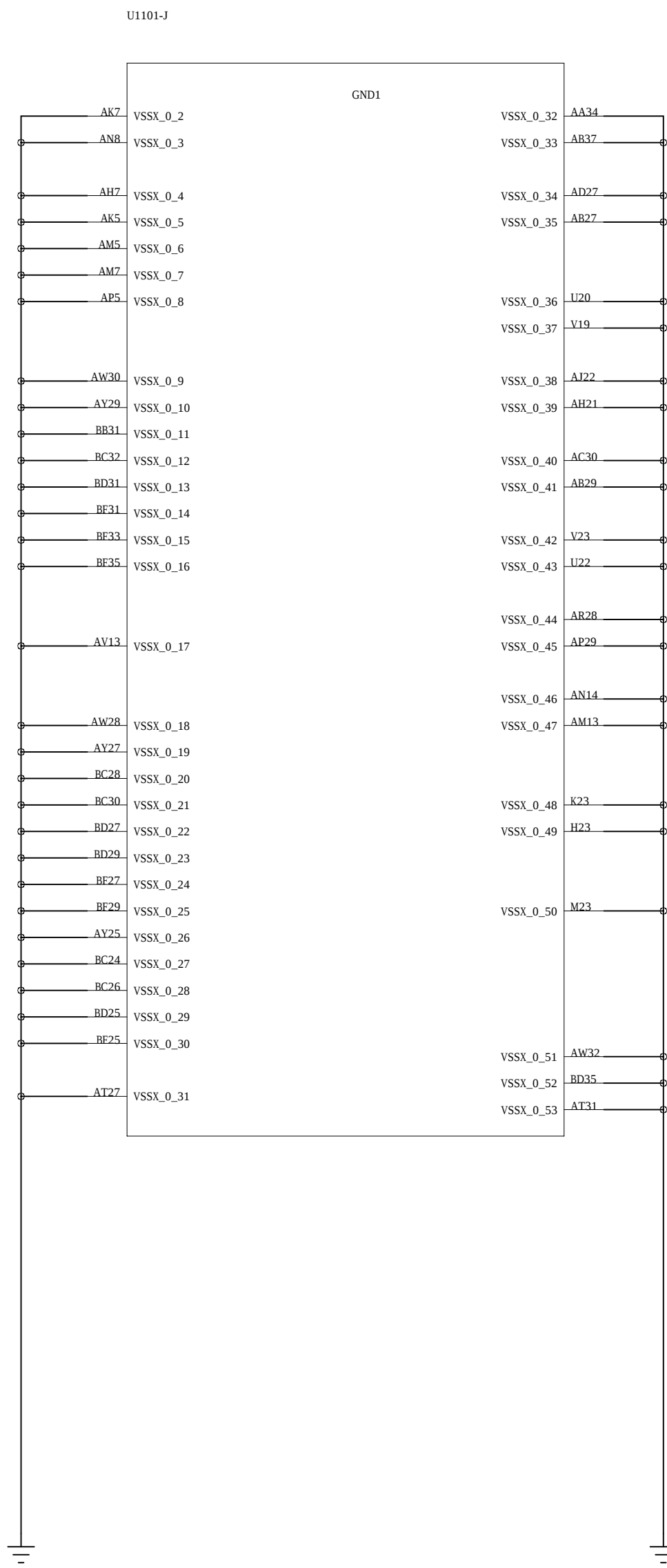
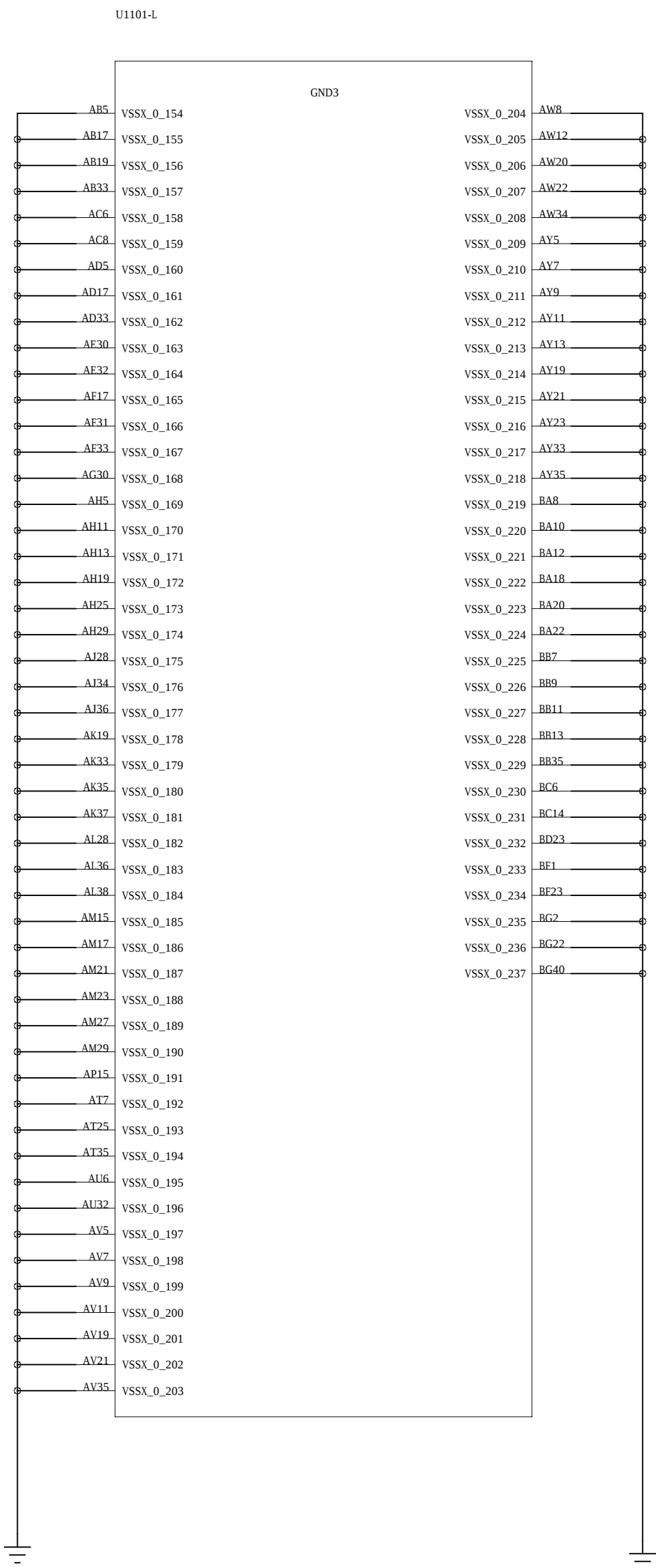




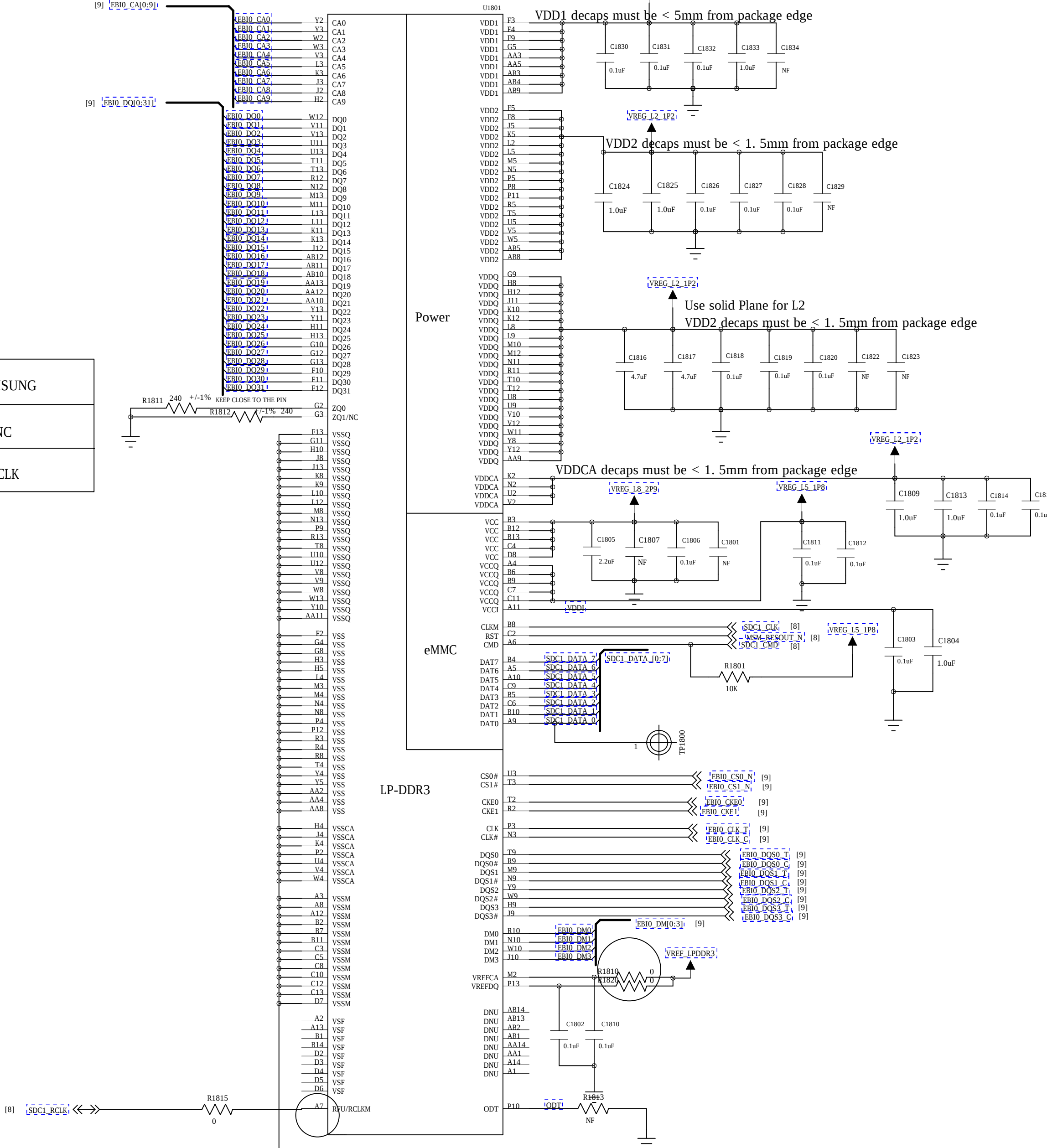
Note: If best EMI practices are followed for MIPI CSI/DSI signals, there is no need for common mode choke filters. You may choose to have placeholders for common mode depending upon your design constraints. Extreme care must be taken that no stubs are created by doing so.



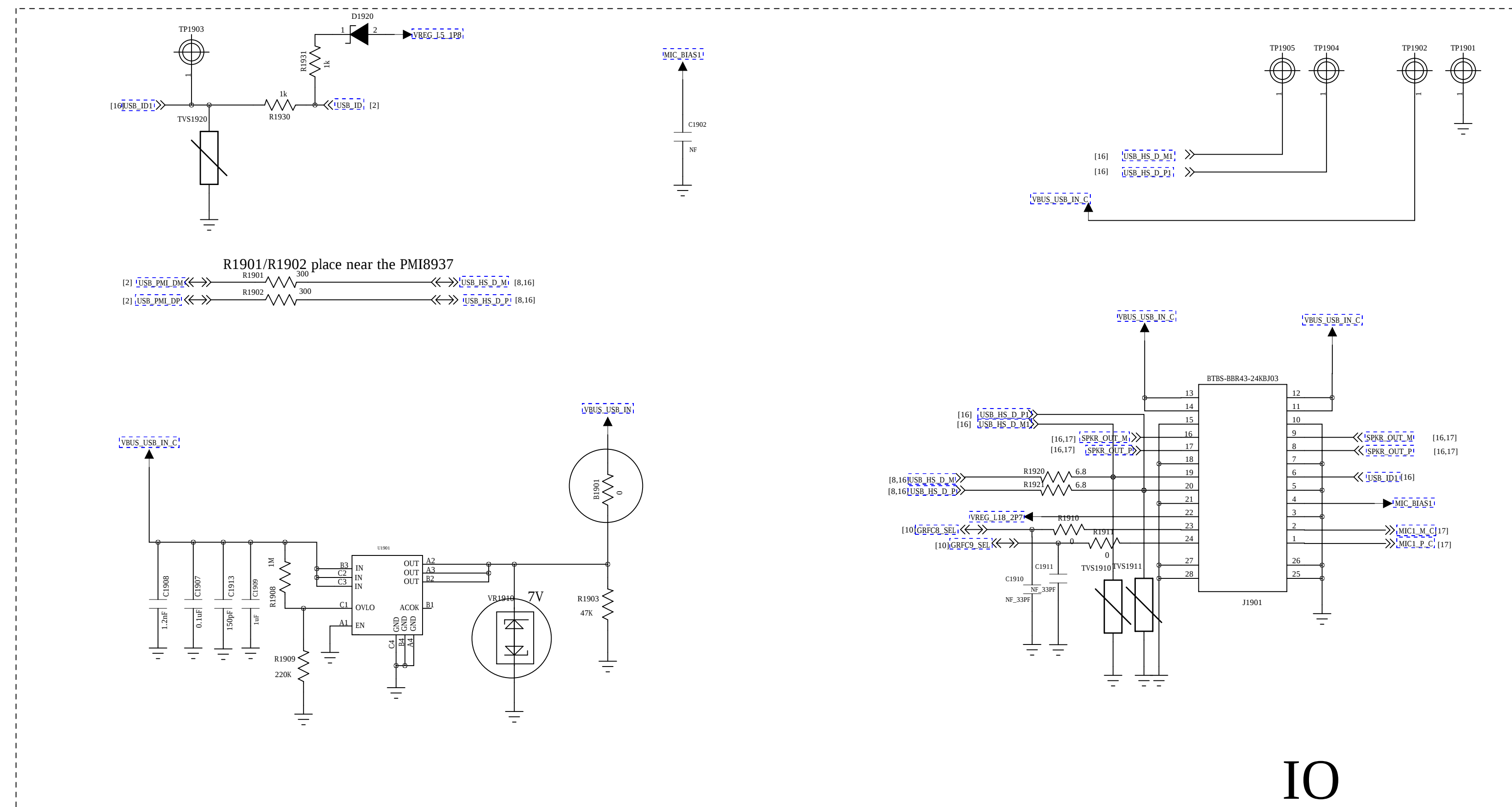


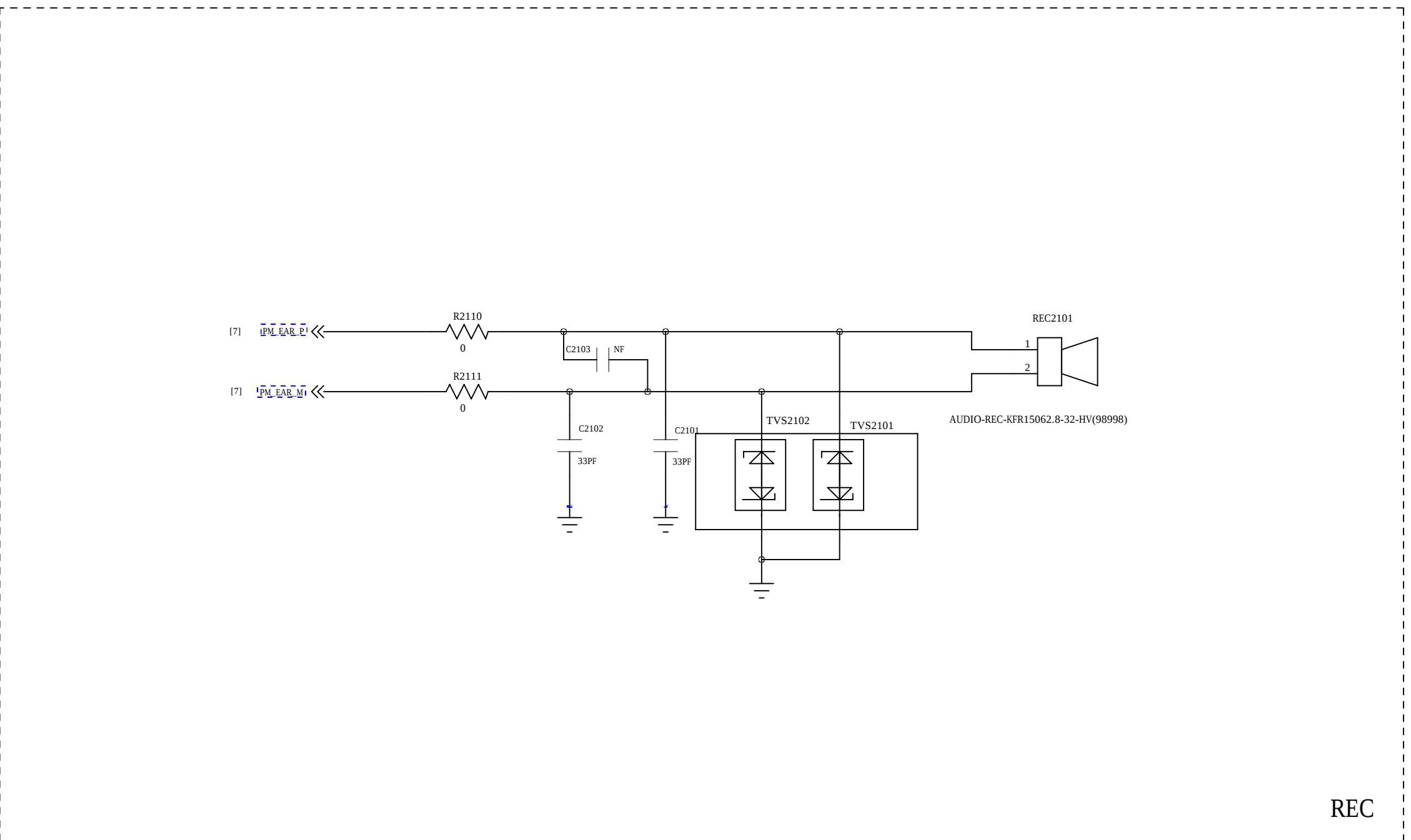
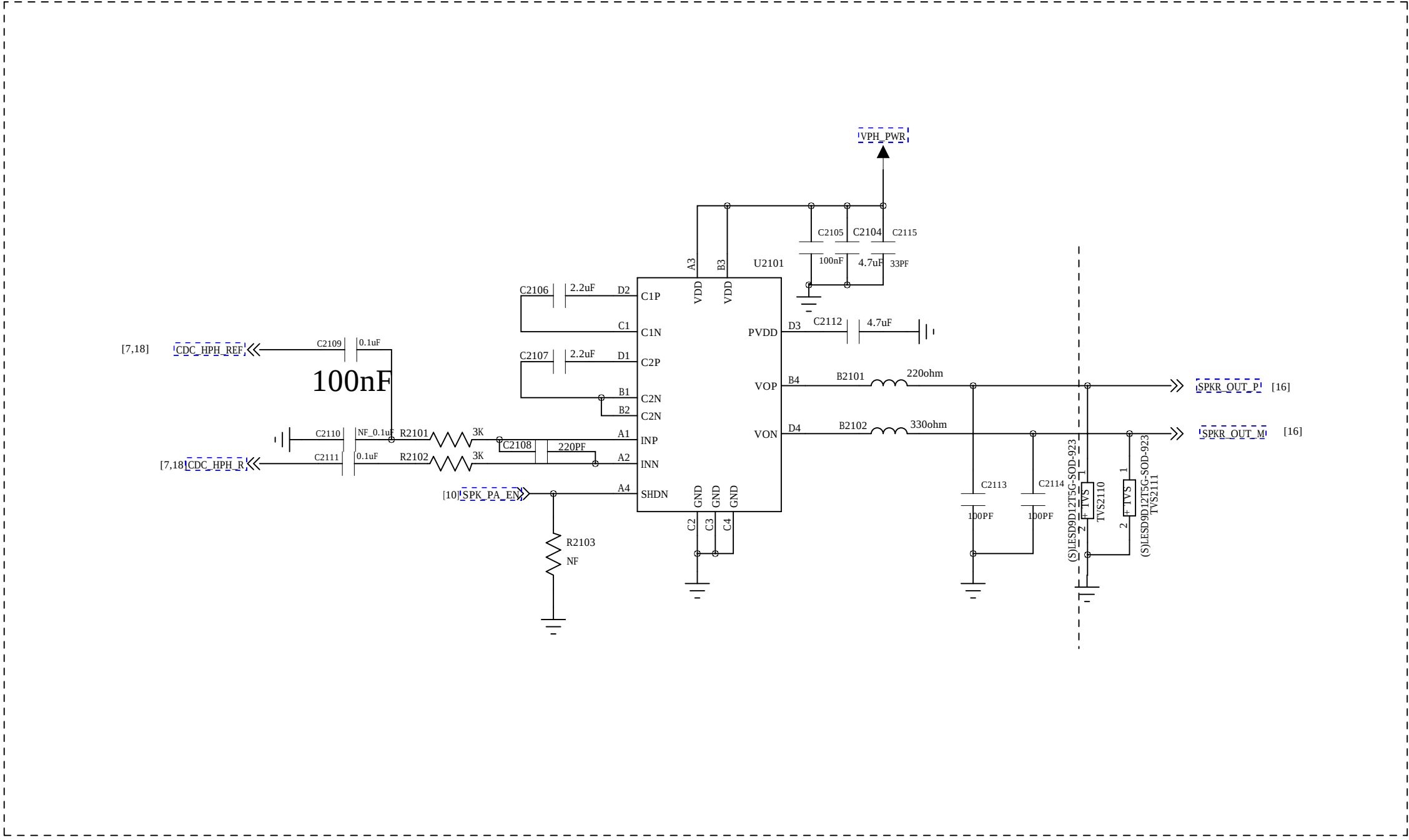


	MICRO/HYNIX	SAMSUNG
U1501.G3	ZQ1	NC
U1501.A7	RFU	RCLK



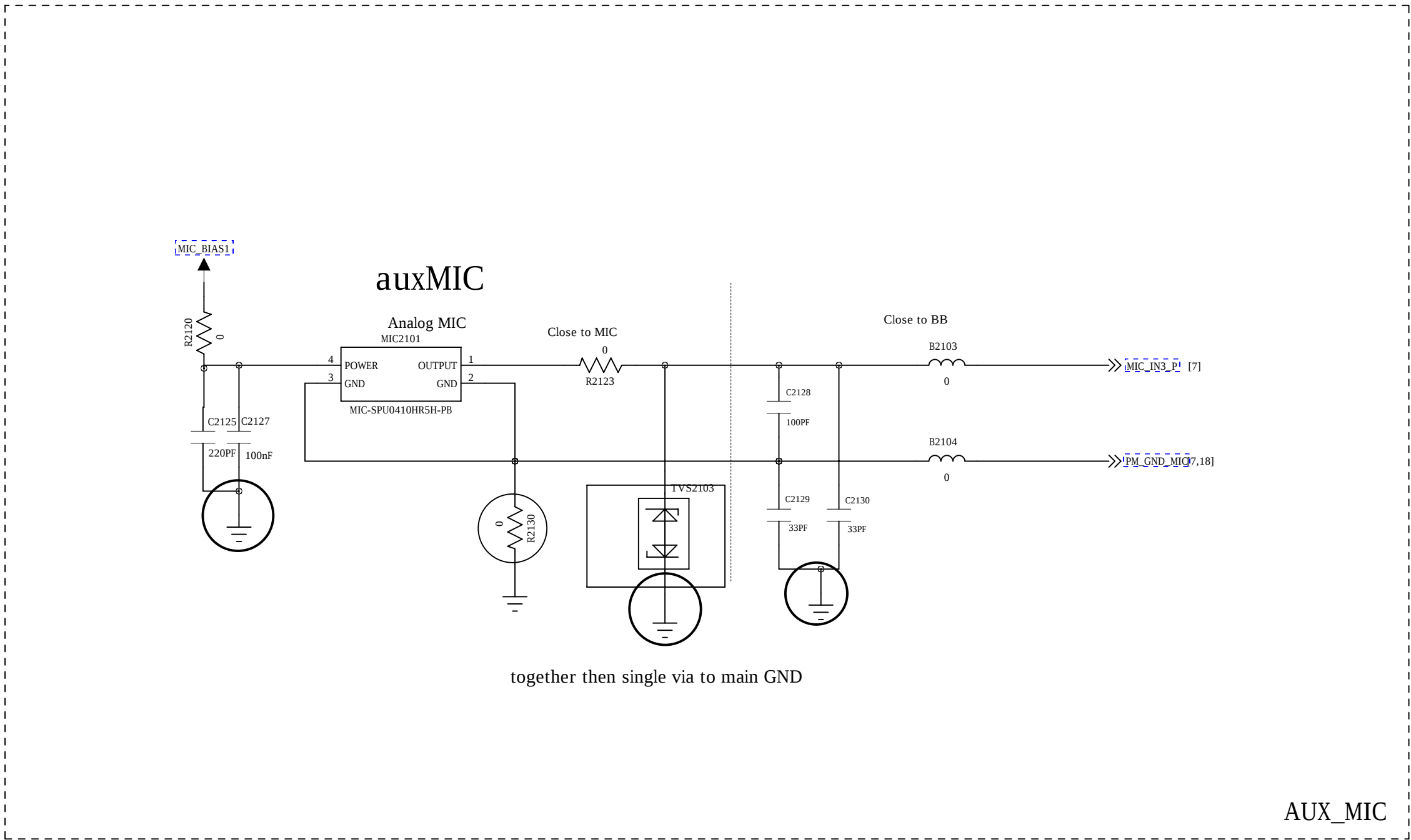
Note: Pull-up resistors on SDC1_DATA are PCB and eMMC vender dependent



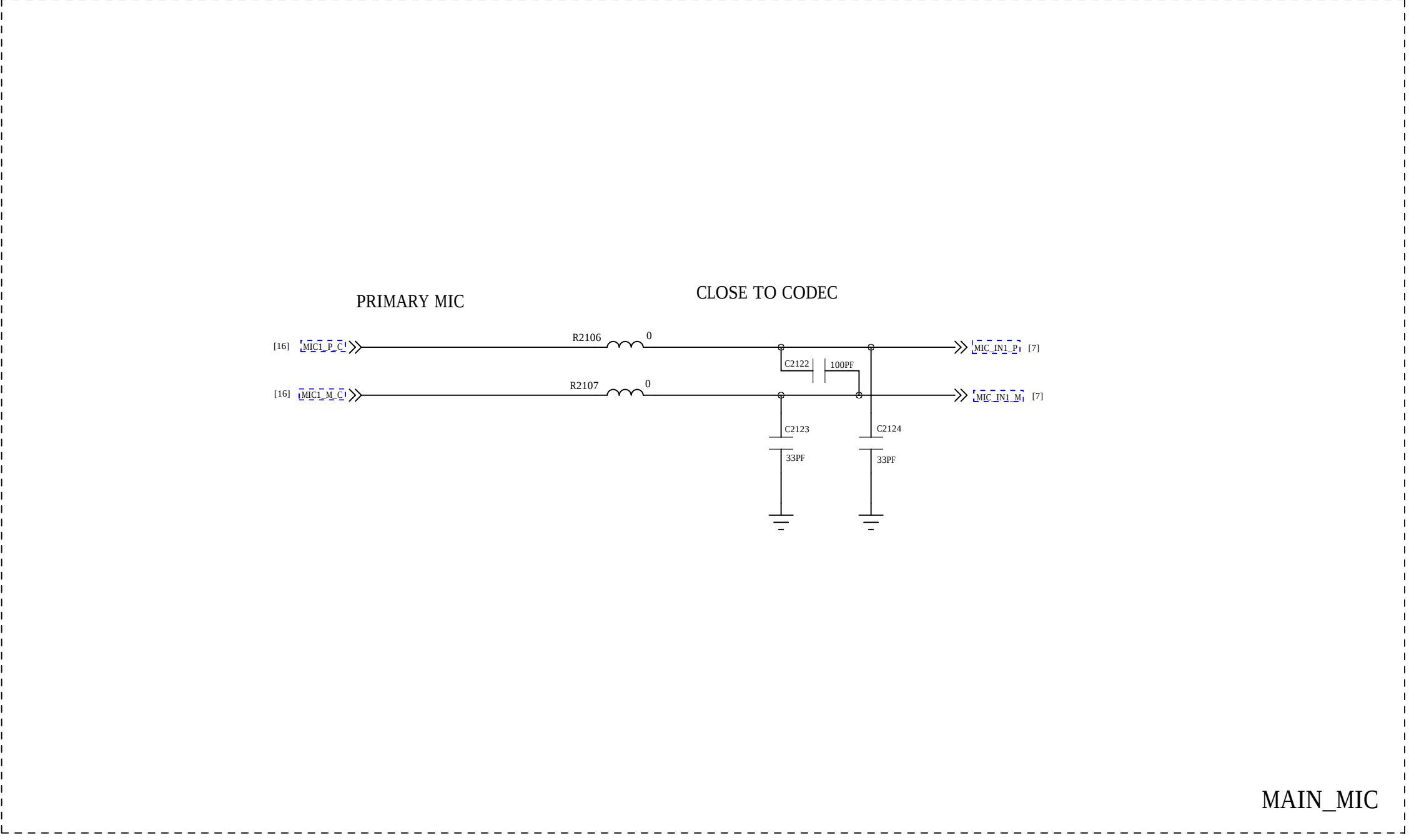


REC

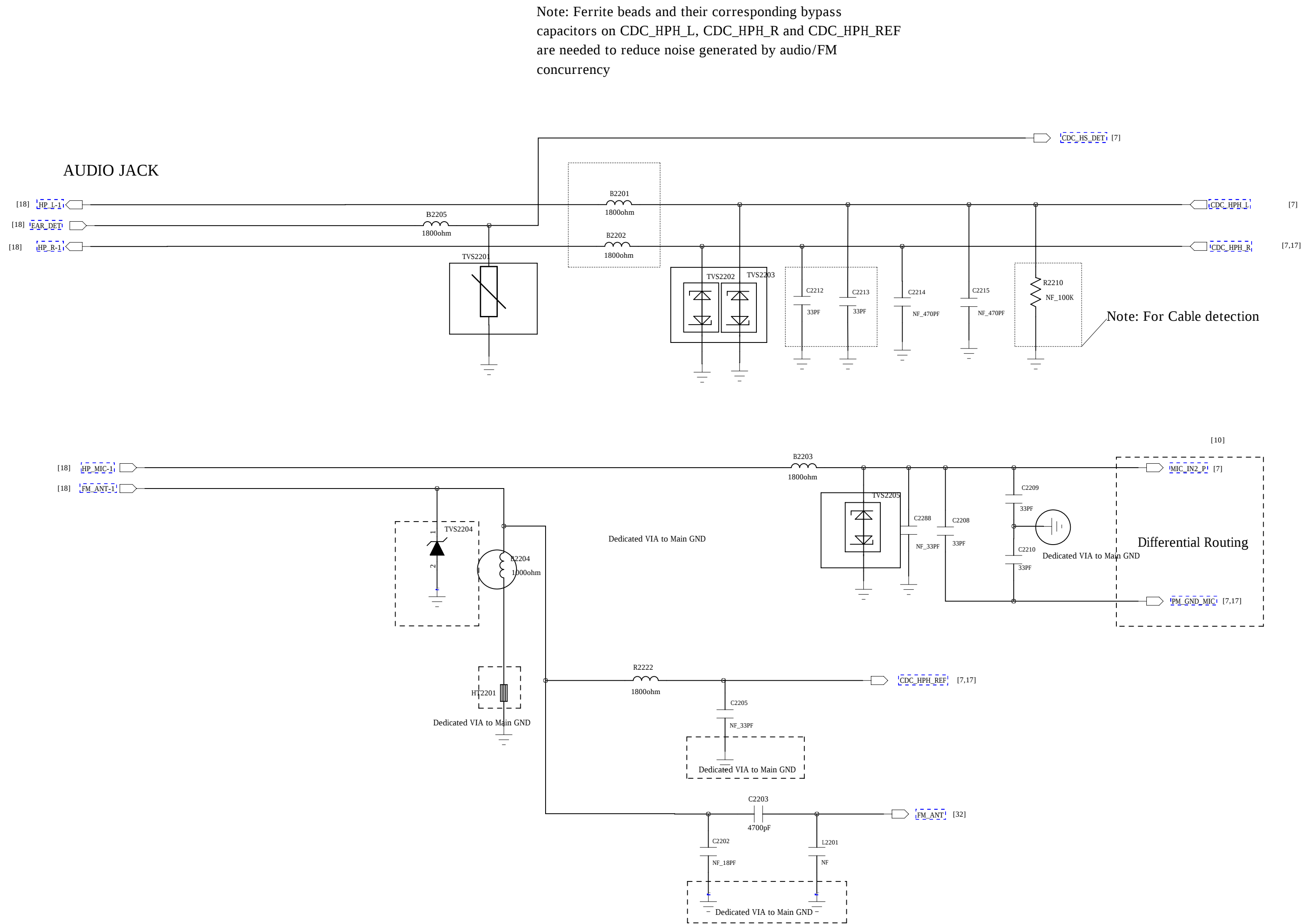
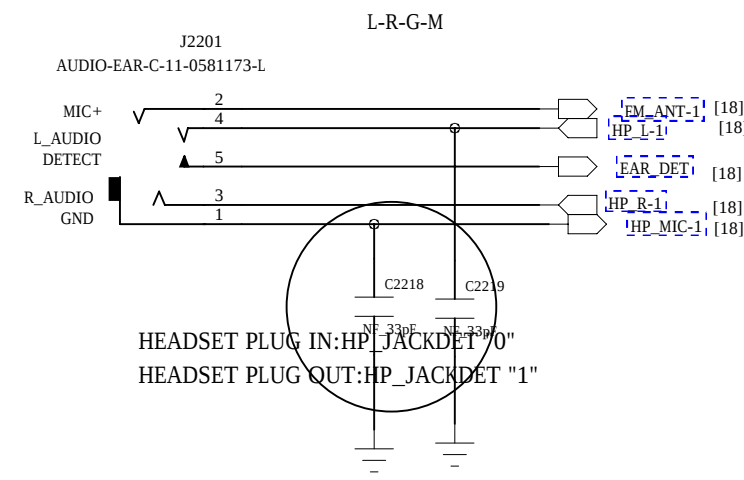
VPH_PWR [2,3,4,5,6,7,17,19,20,21,27,3

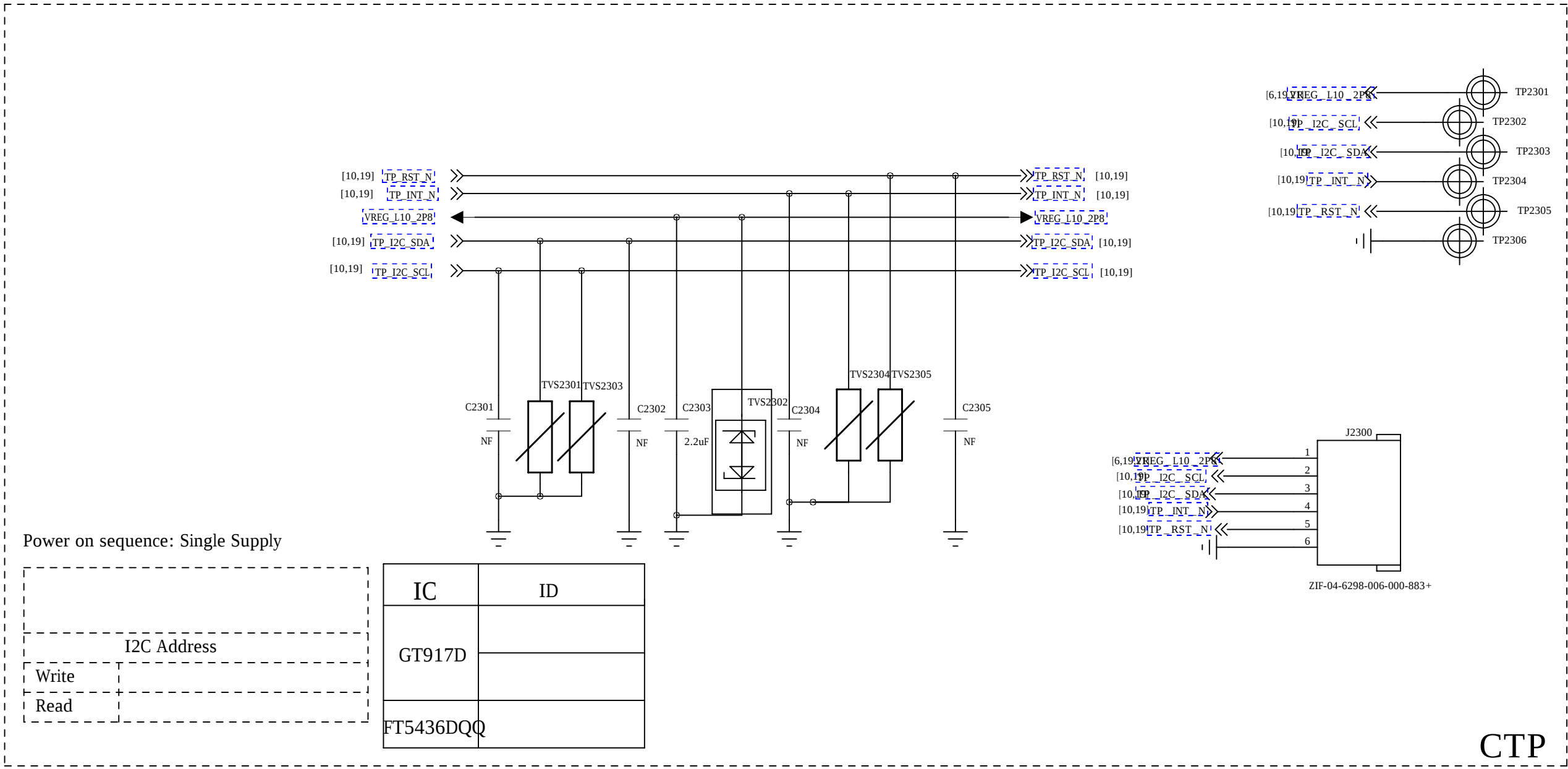


AUX_MIC

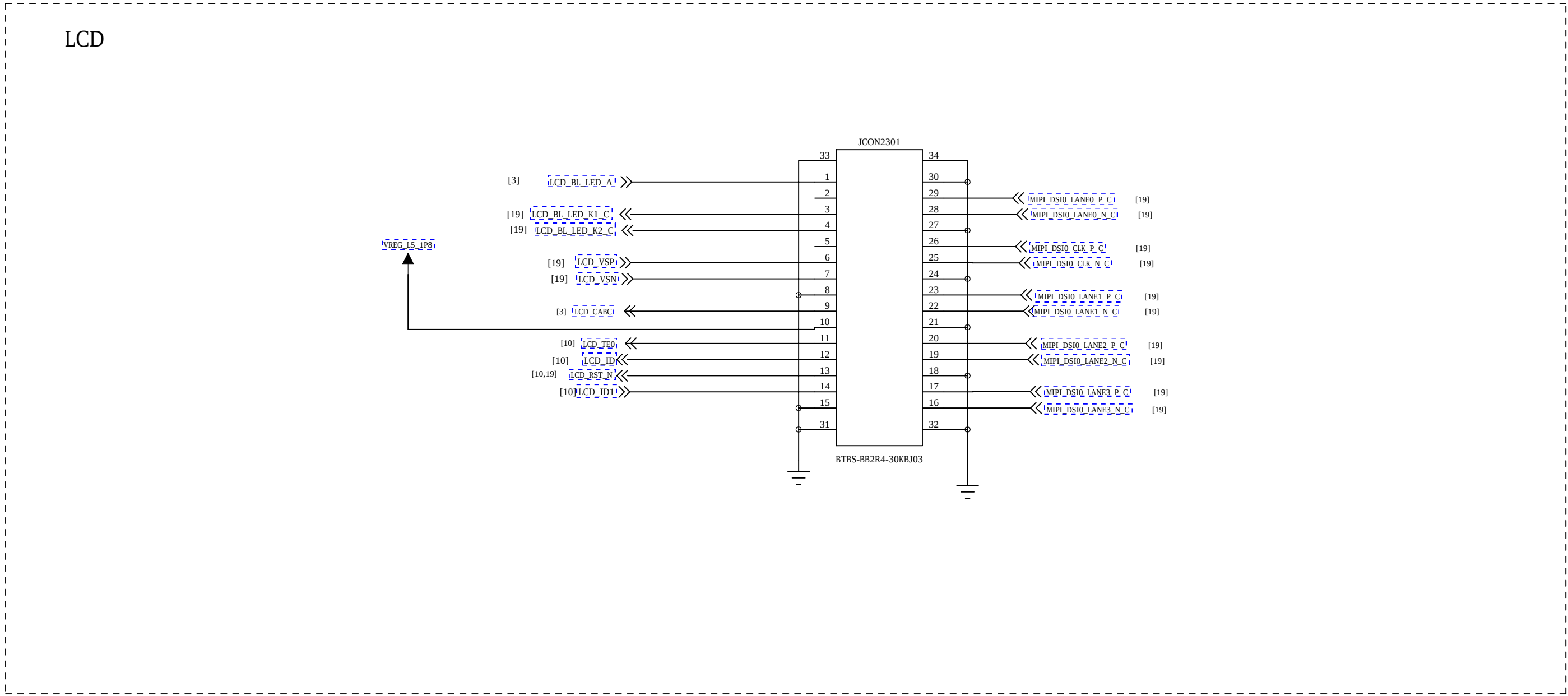


MAIN_MIC

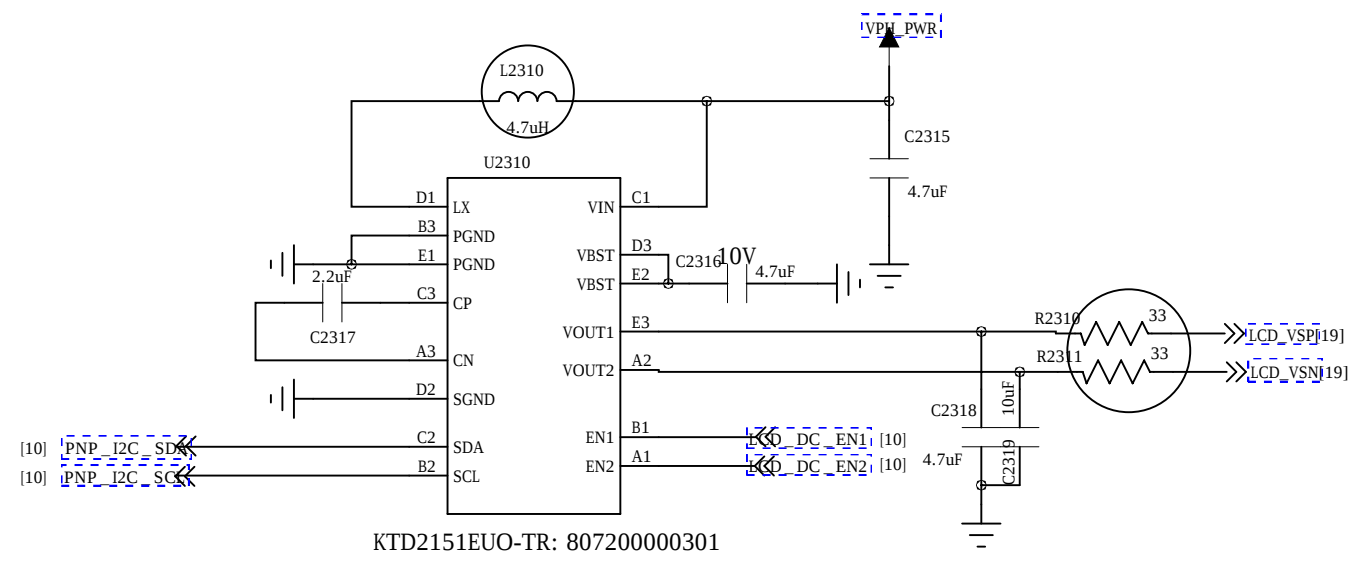
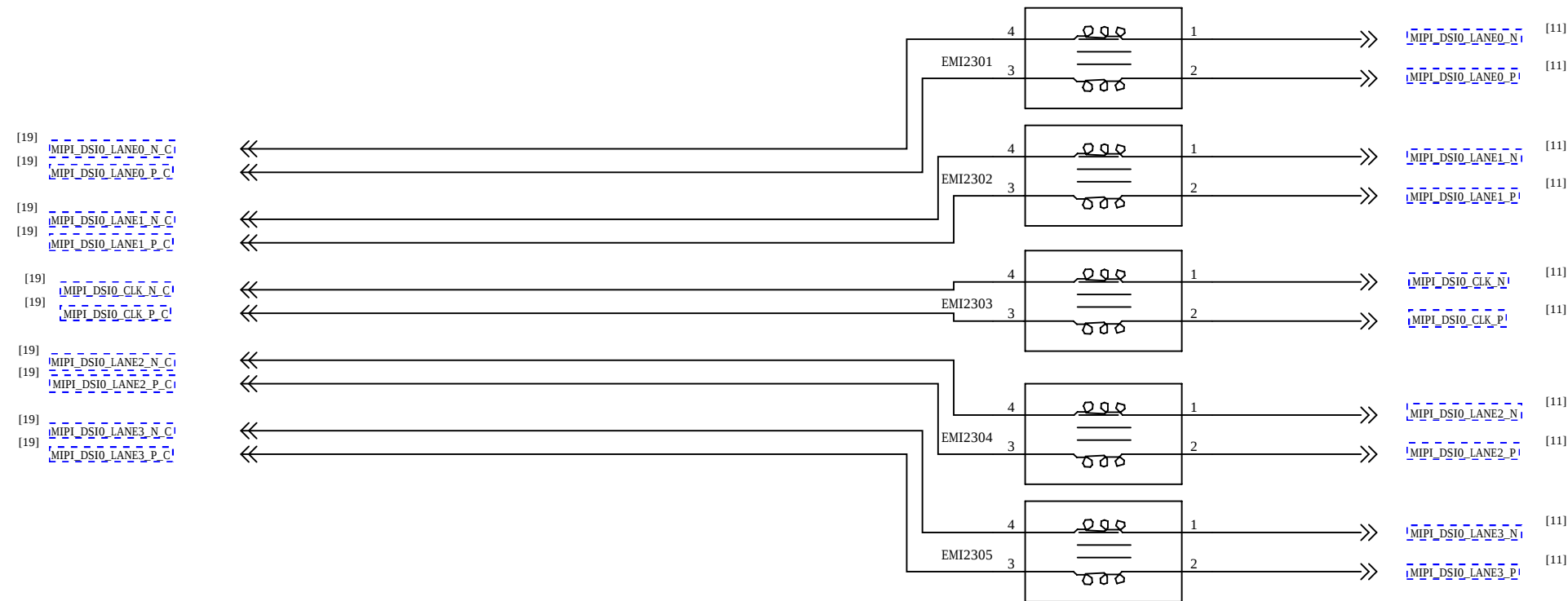




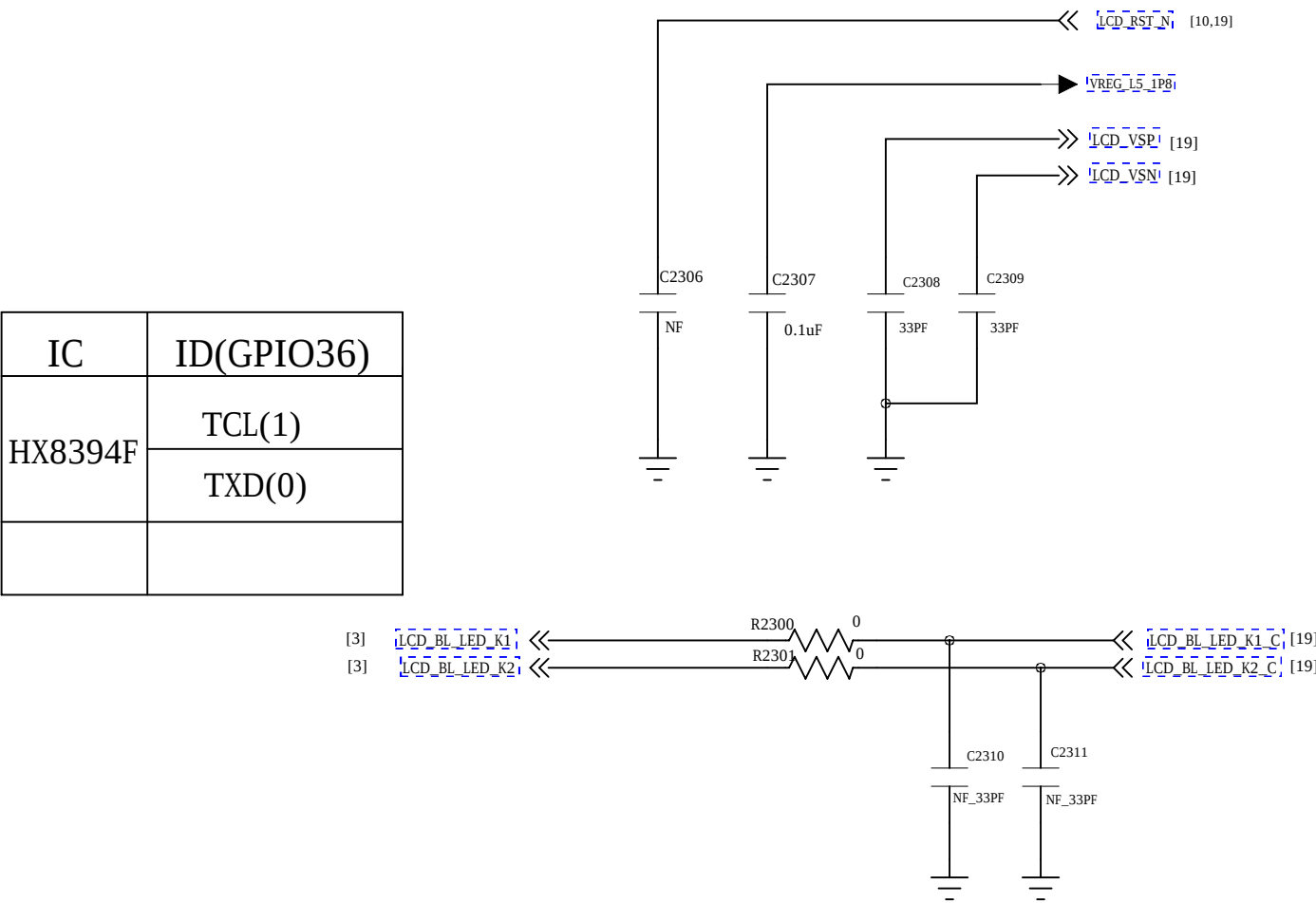
(VIETMOBILE.VN)



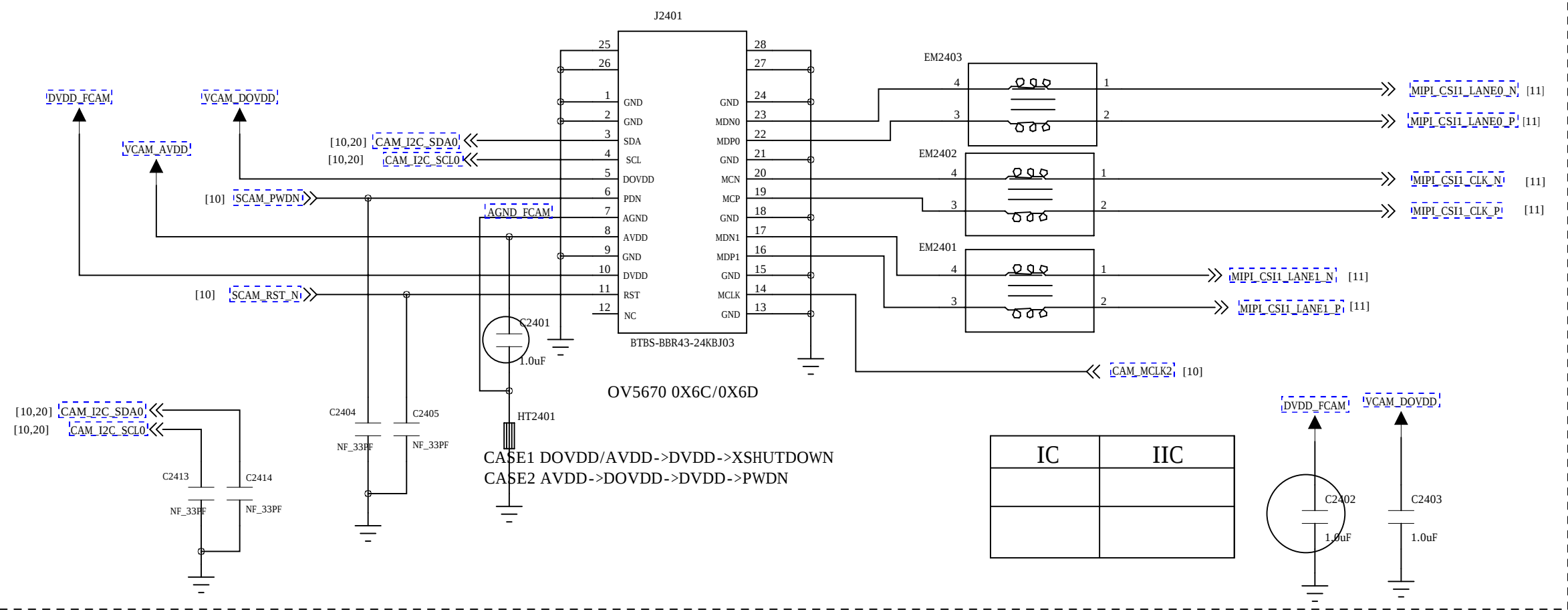
Note: If best EMI practices are followed for MIPI CSI/DSI signals, there is no need for common mode choke filters. You may choose to have placeholders for common mode depending upon your design constraints. Extreme care must be taken that no stubs are created by doing so.



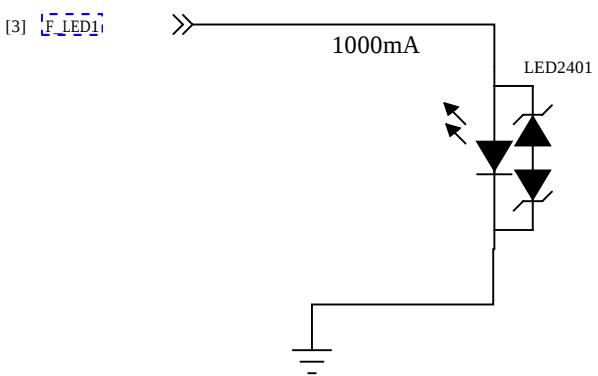
KTD2151& NT50358 powers ON with a default voltage of 5.0V software can use without I2C



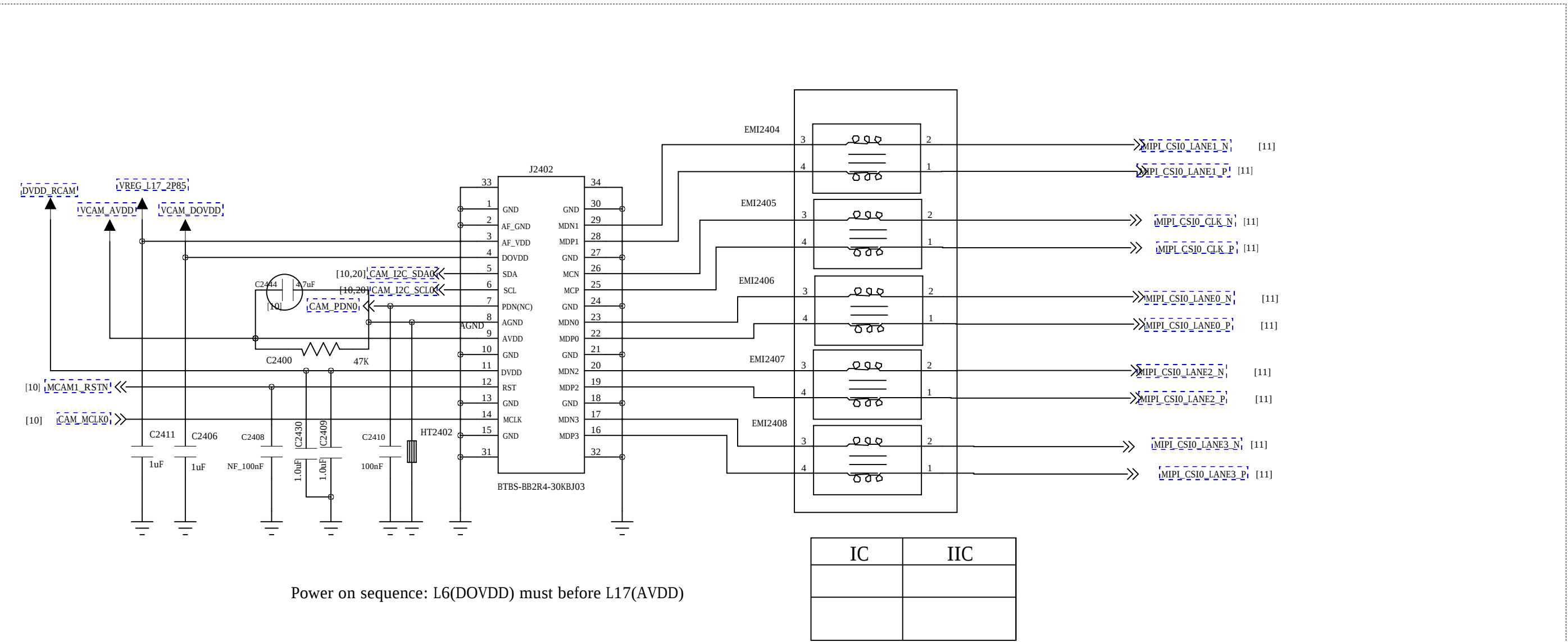
FRONT_camera



Main Camera / Sub Camera share power domain design should double check the voltage level is compatible

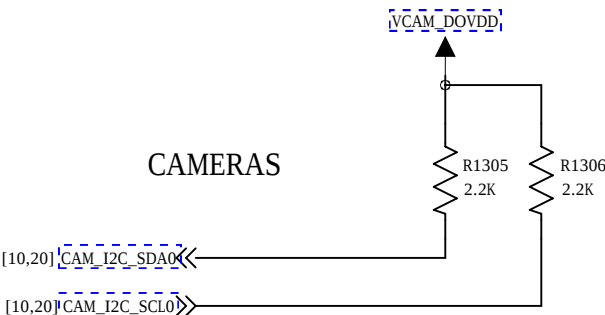
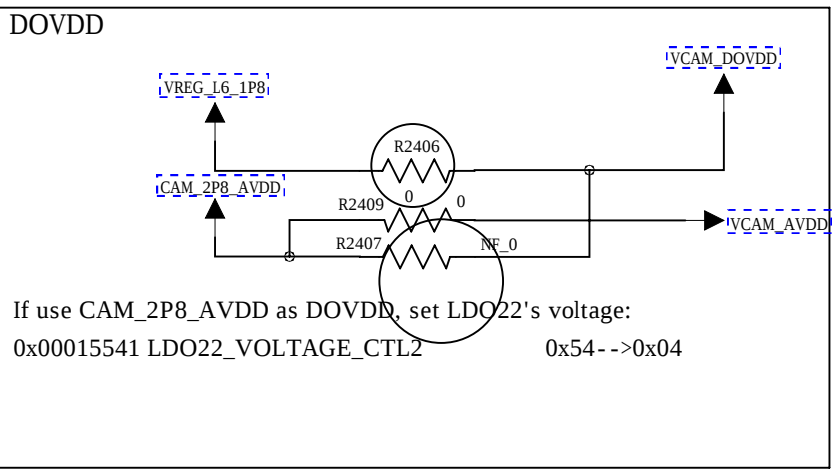
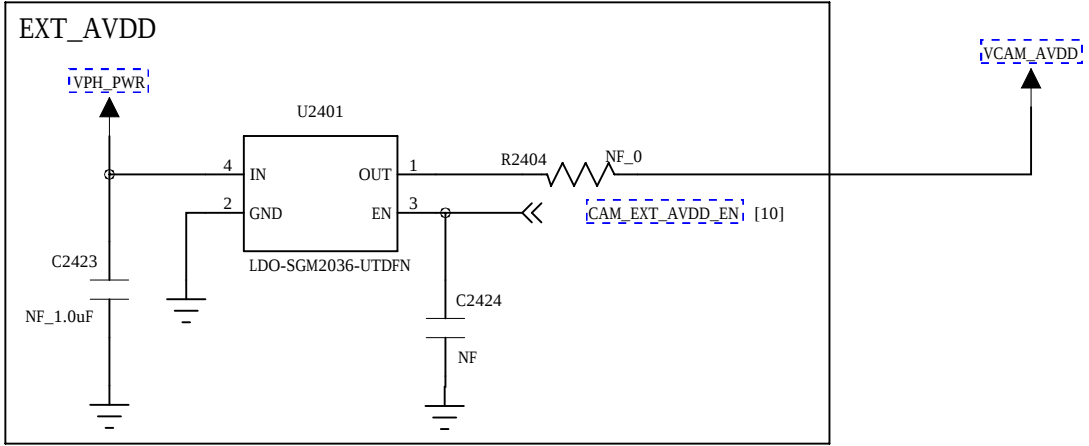
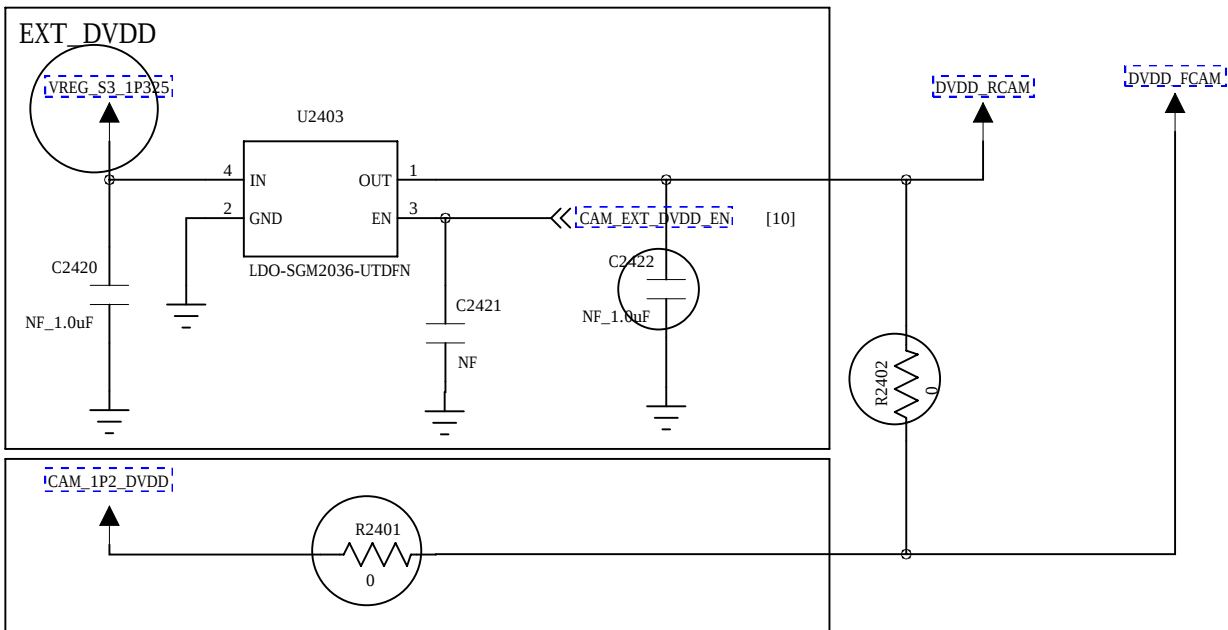


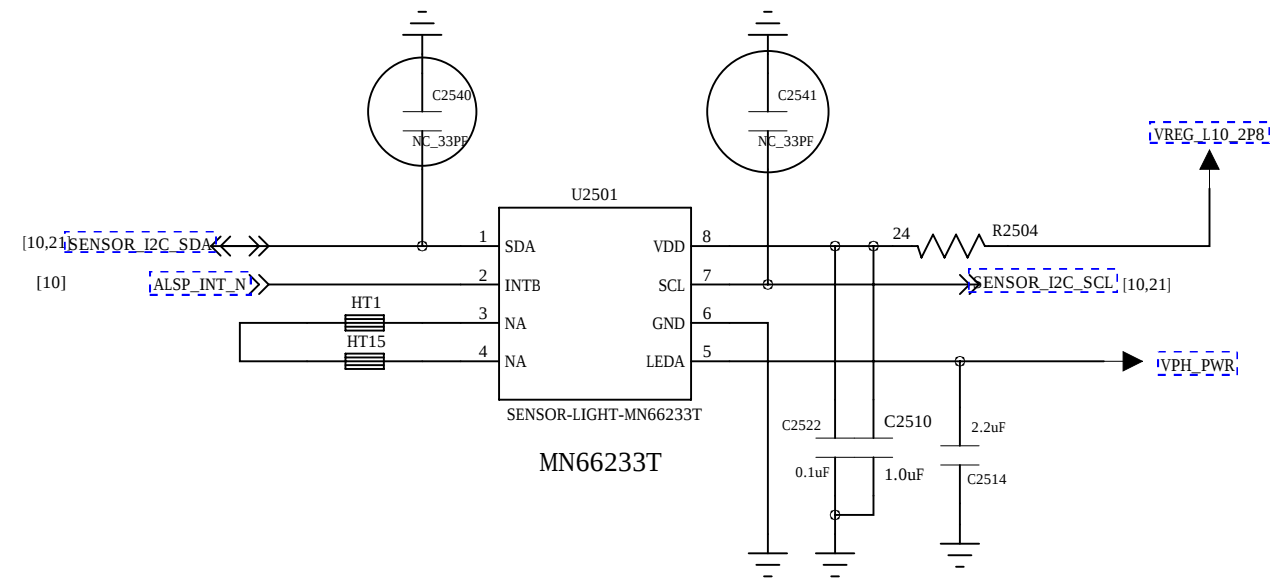
FLASH LED



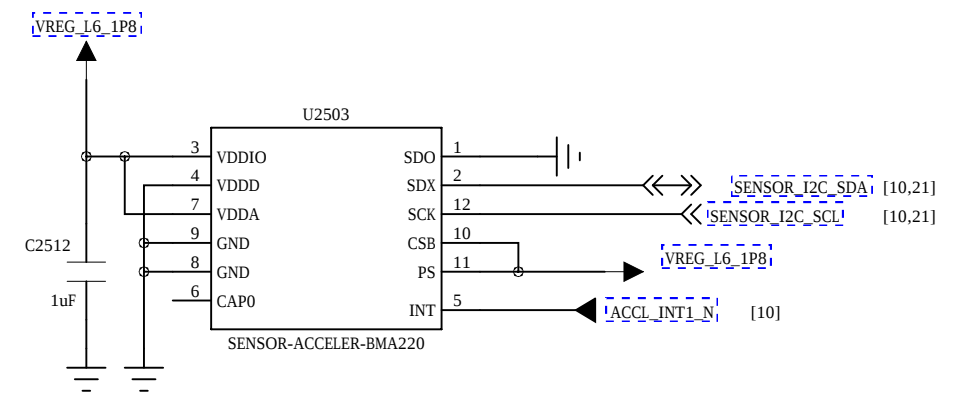
Power on sequence: L6(DOVDD) must before L17(AVDD)

Main Camera

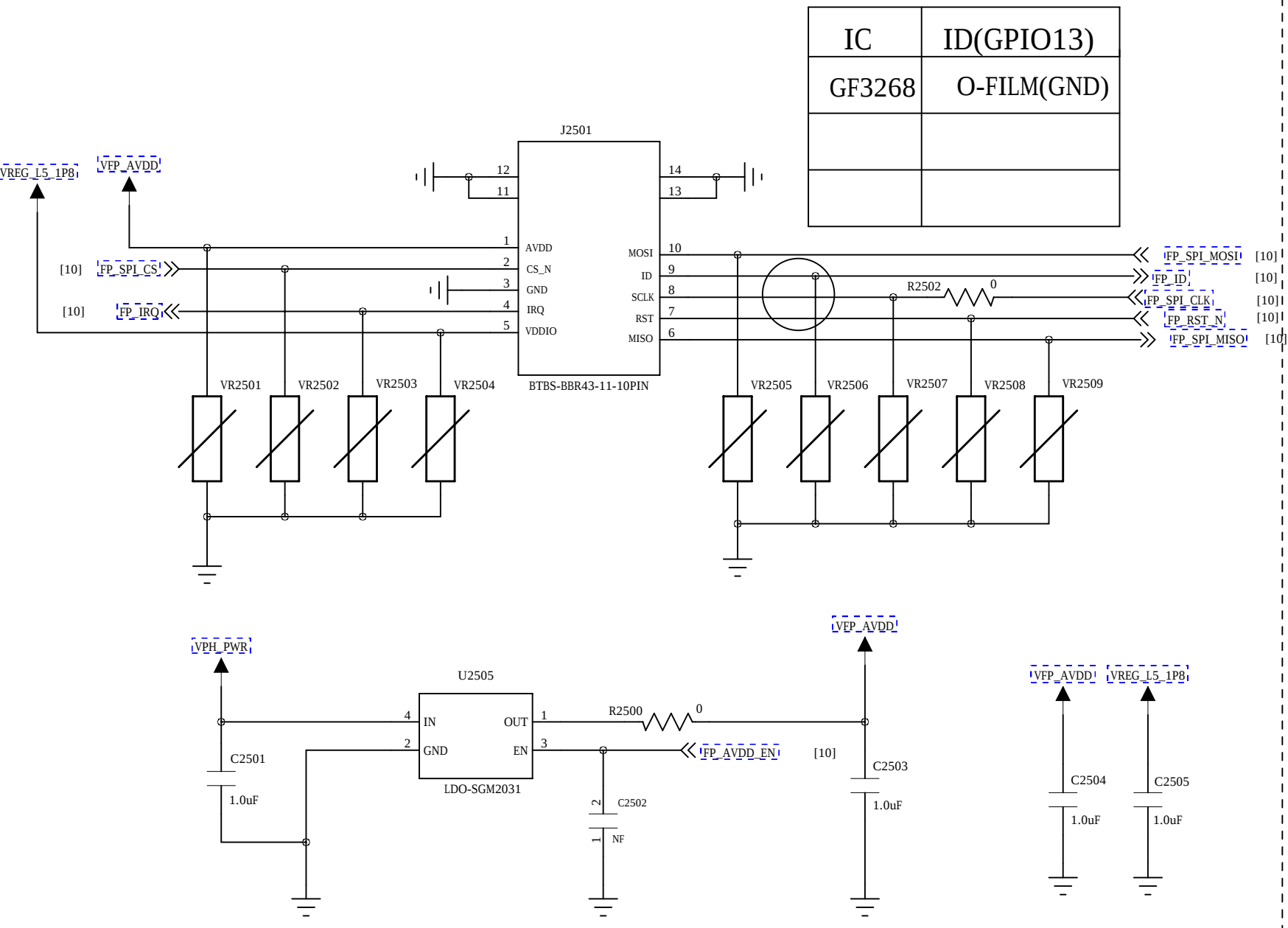




ALS+PS+IR



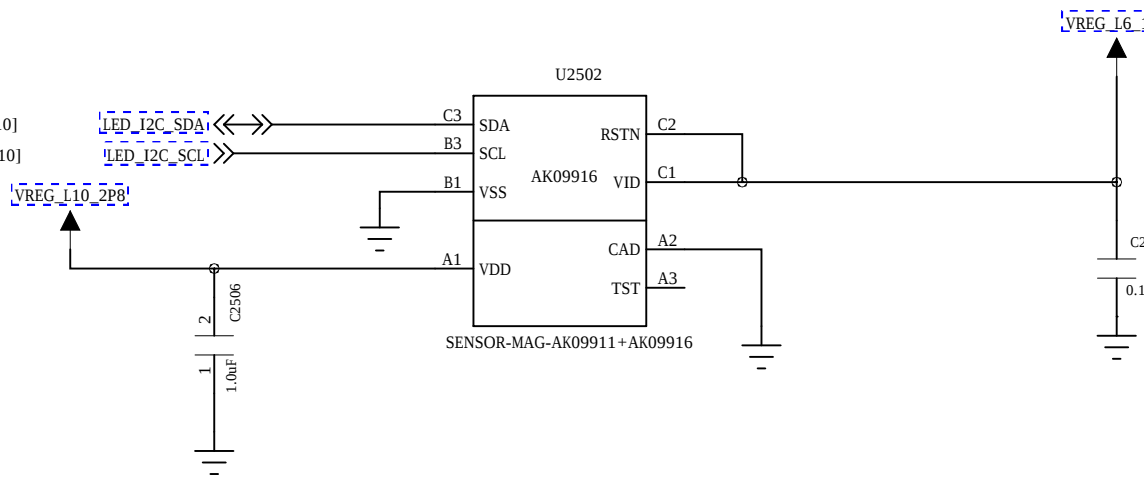
G-SENSOR



FP

AKM: AK09916

Write	0x18
Read	0x19



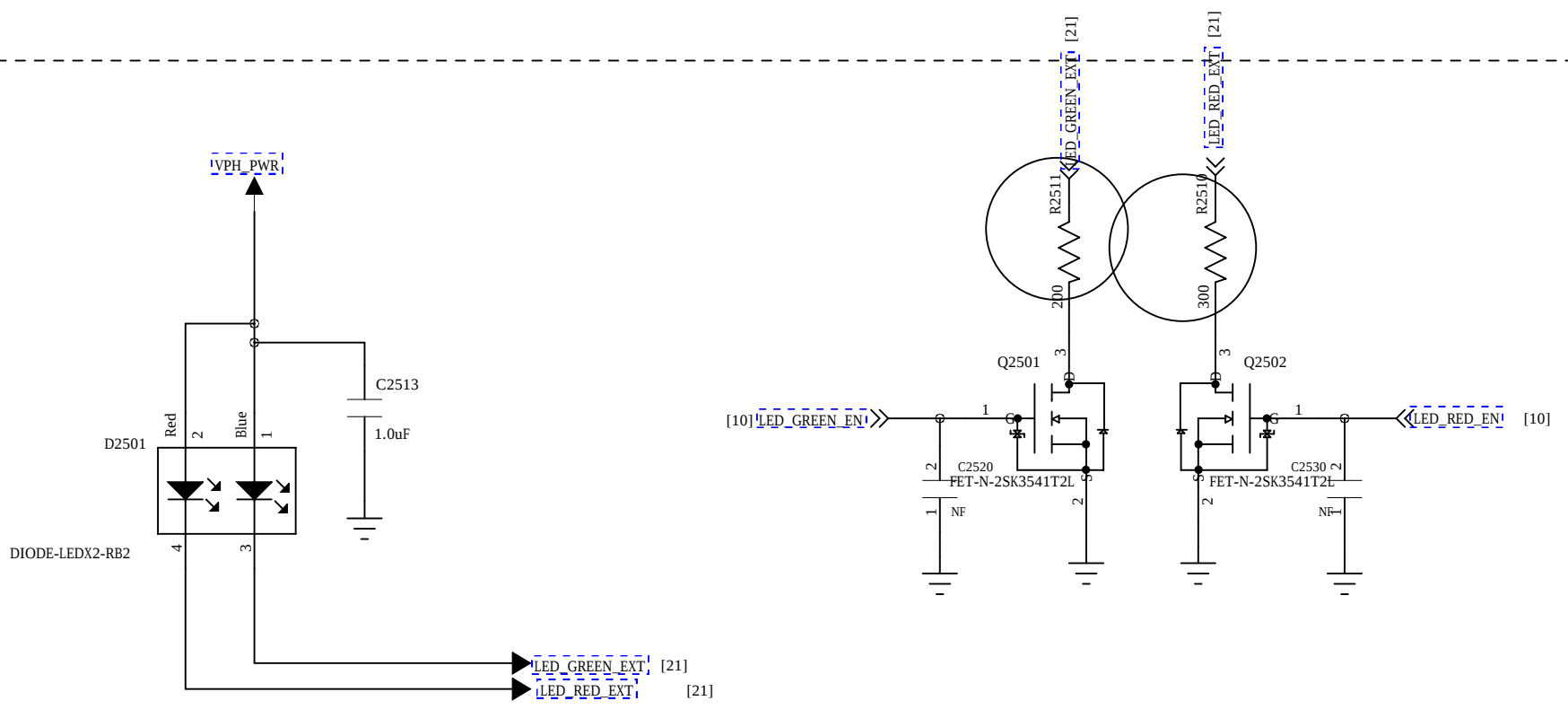
AKM: AK09911

I2C Address@CAD=0	
Write	0x18
Read	0x19

I2C Address@CAD=1	
Write	0x1A
Read	0x1B

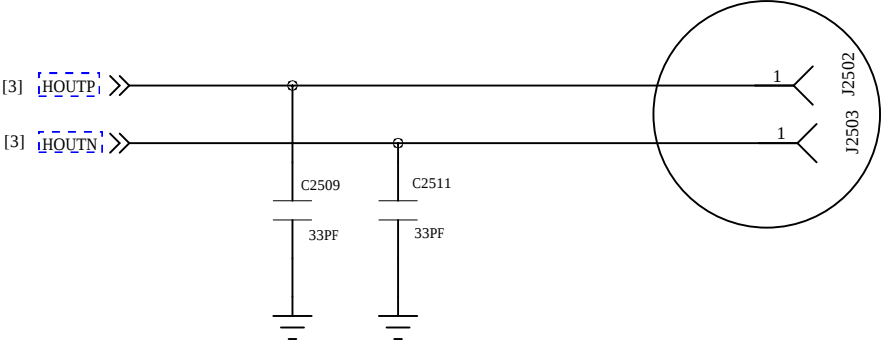
Power on sequence: L6/L17 can be applied in any order

M-SENSOR



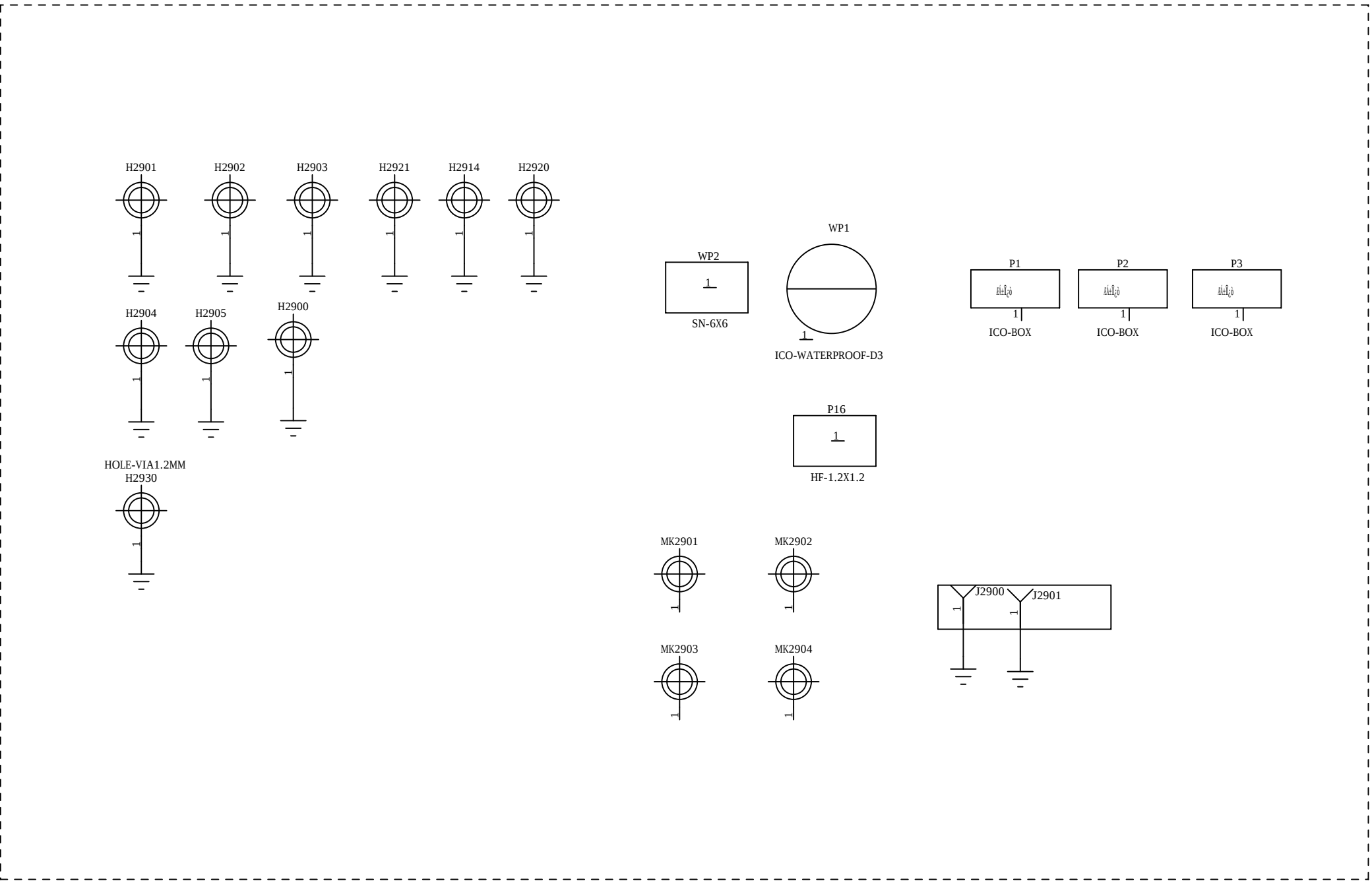
Power on sequence: can be applied in any order

RG

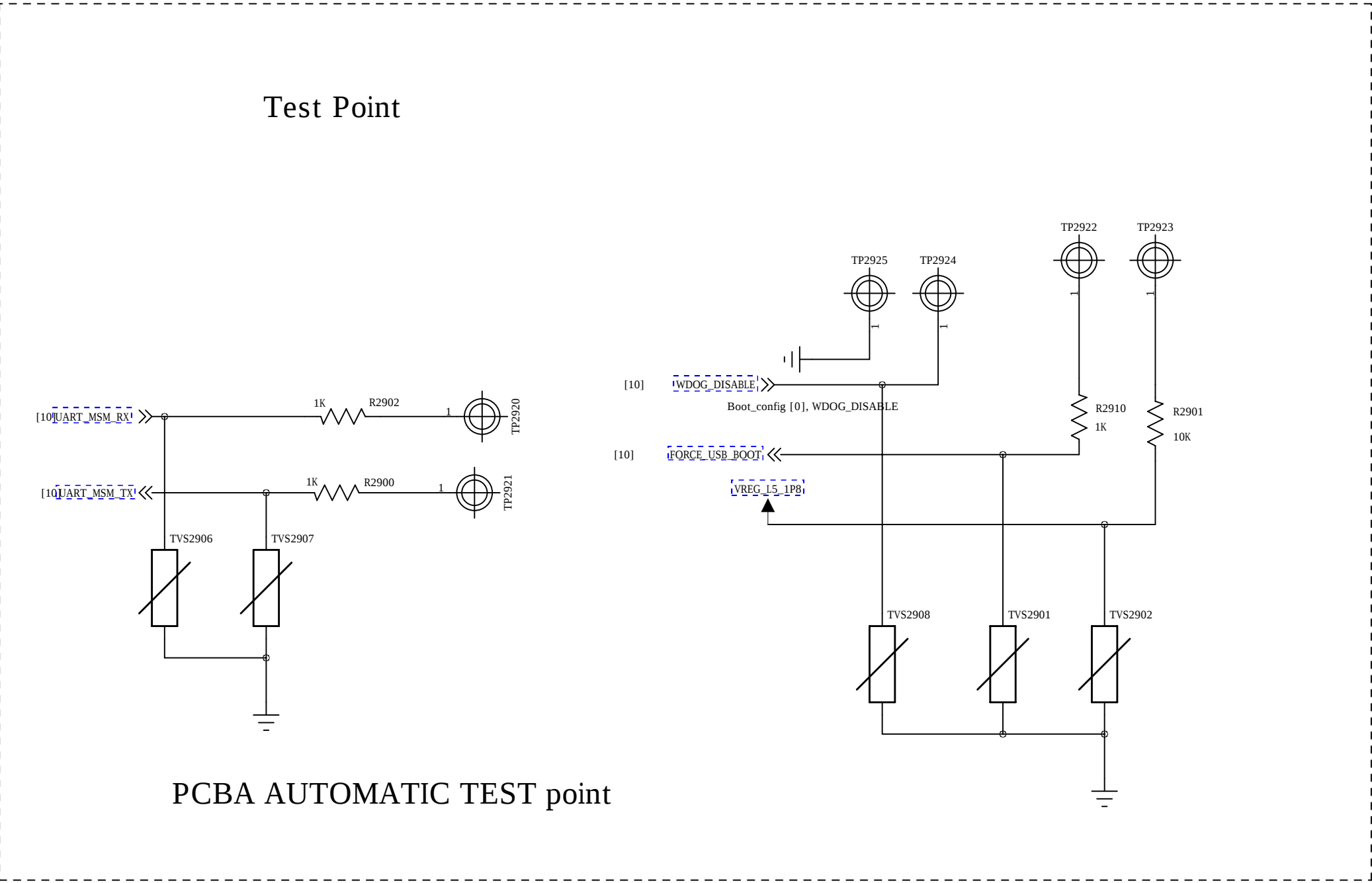


MOTOR





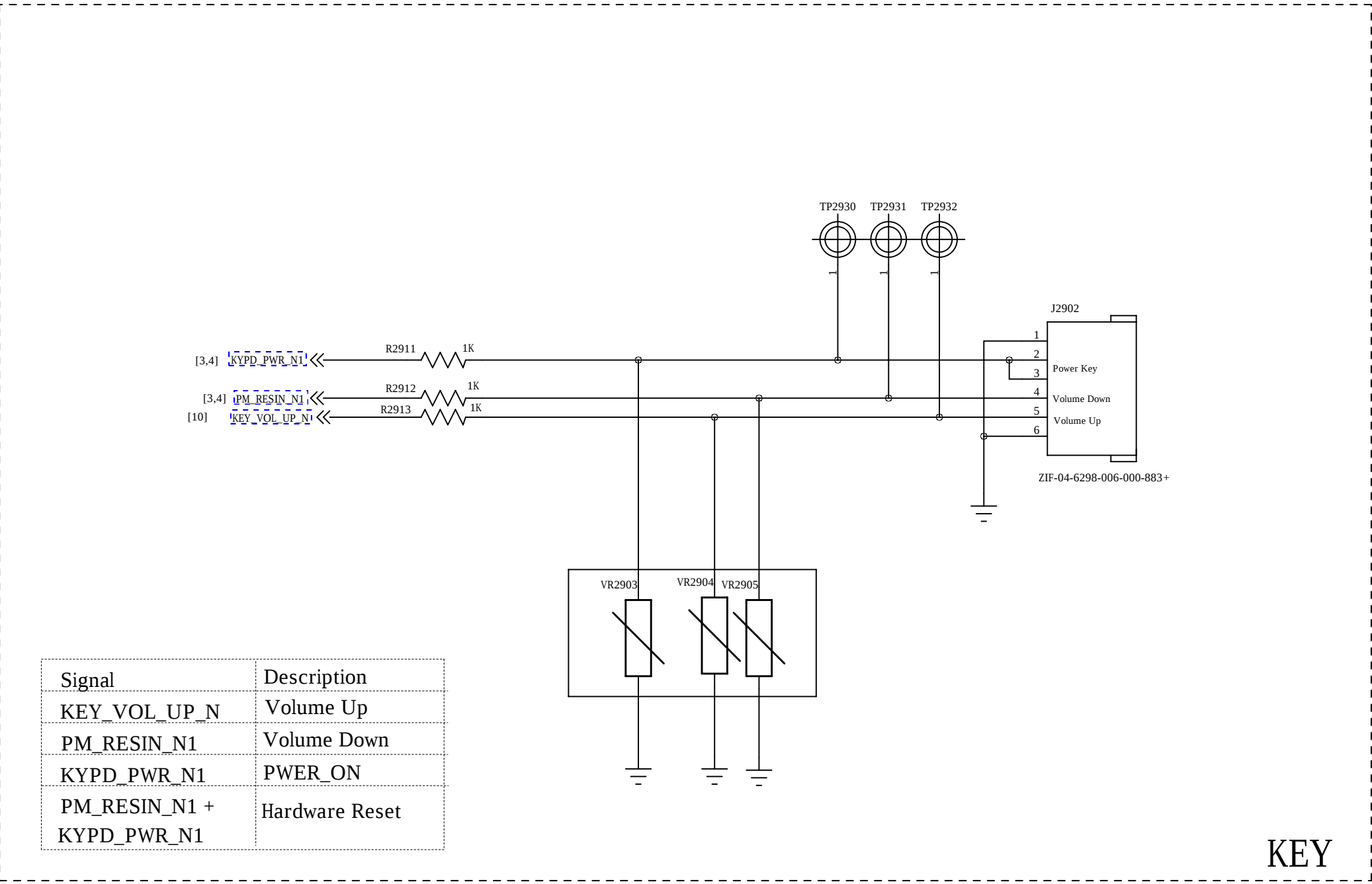
JTAG



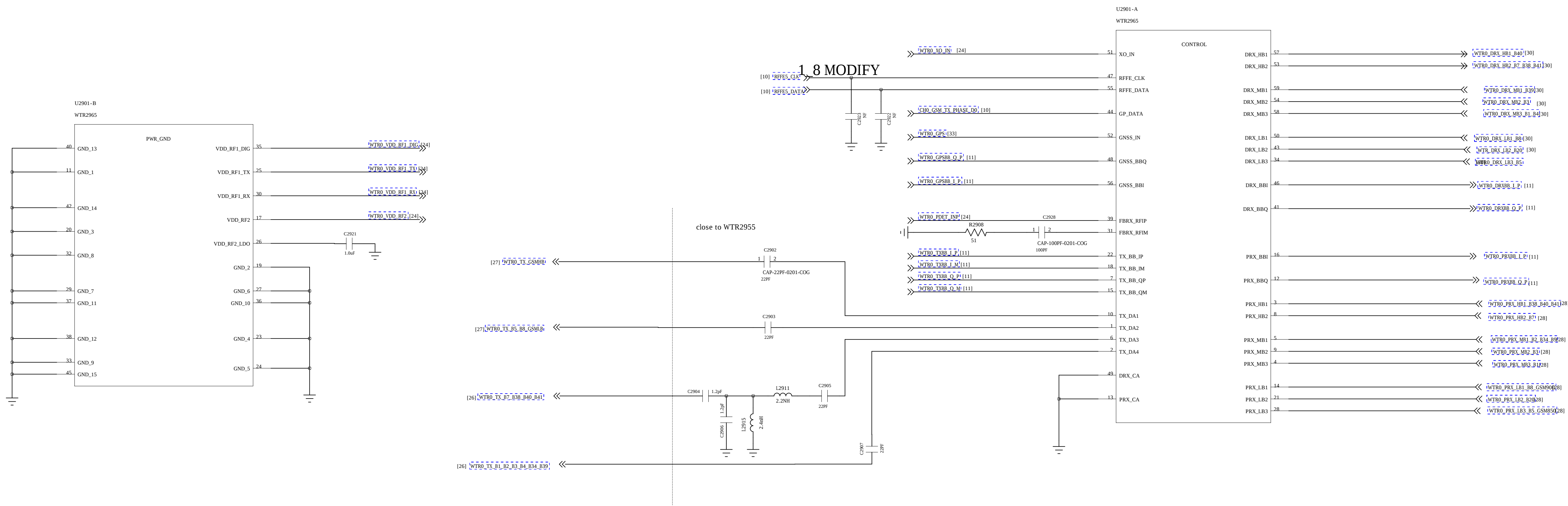
PCBA AUTOMATIC TEST point



JTAG

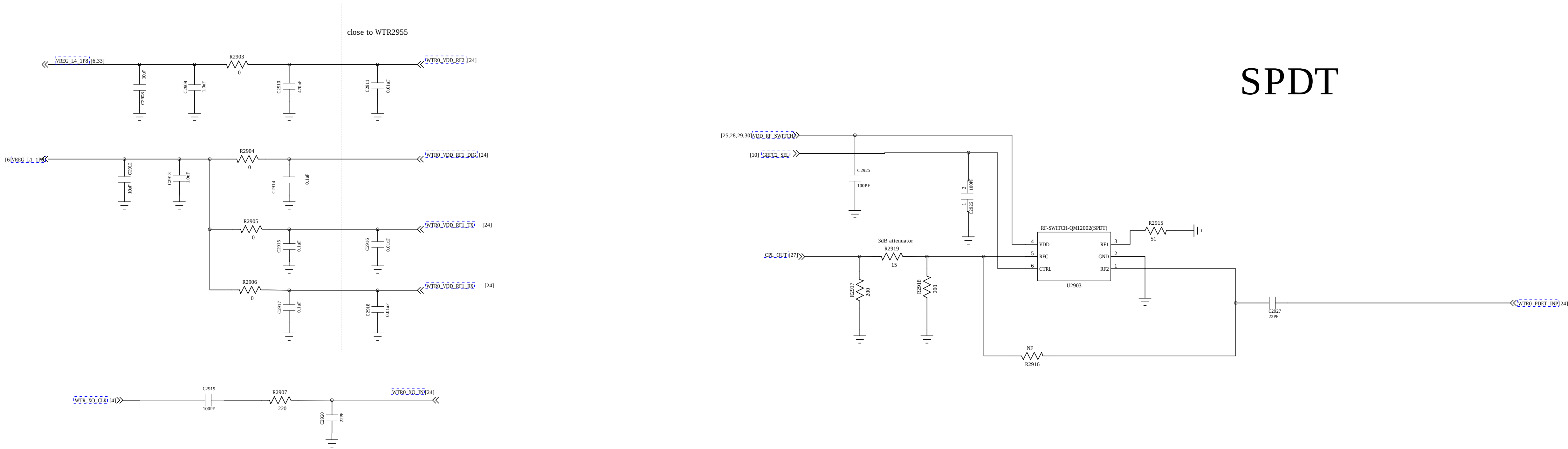


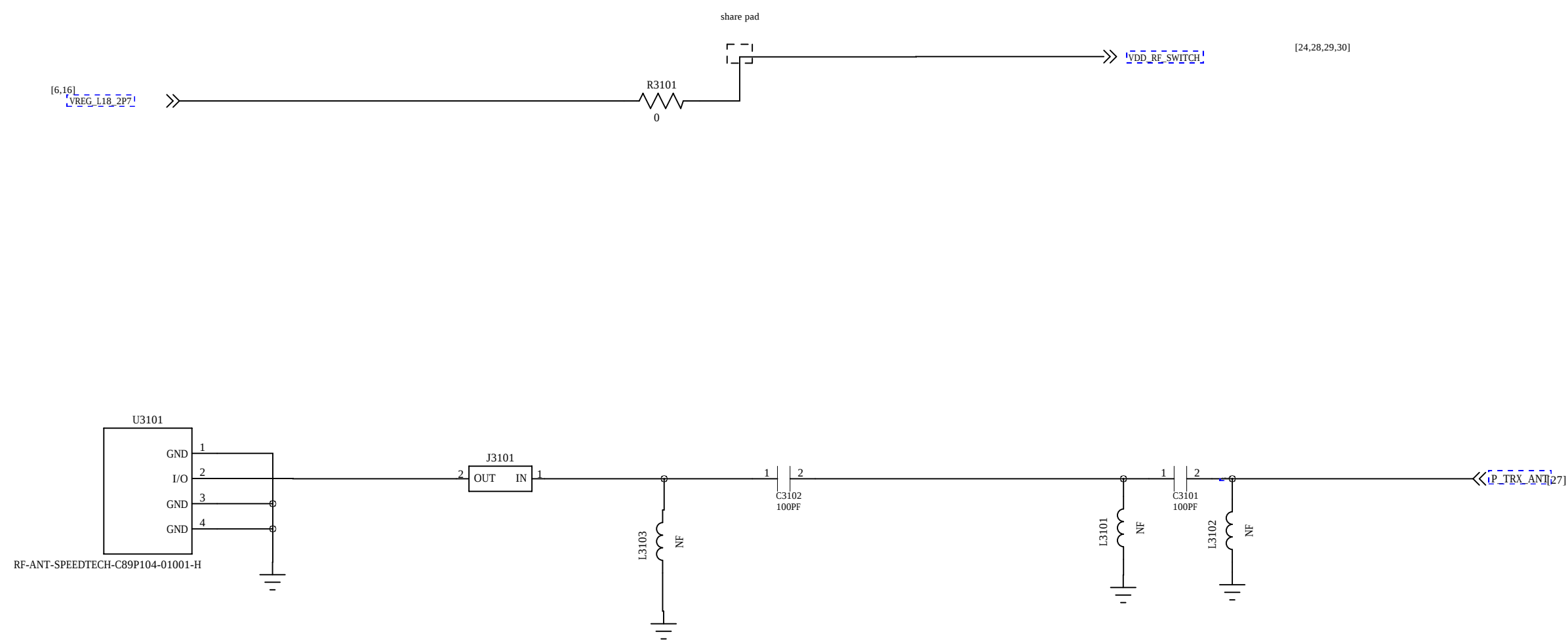
KEY



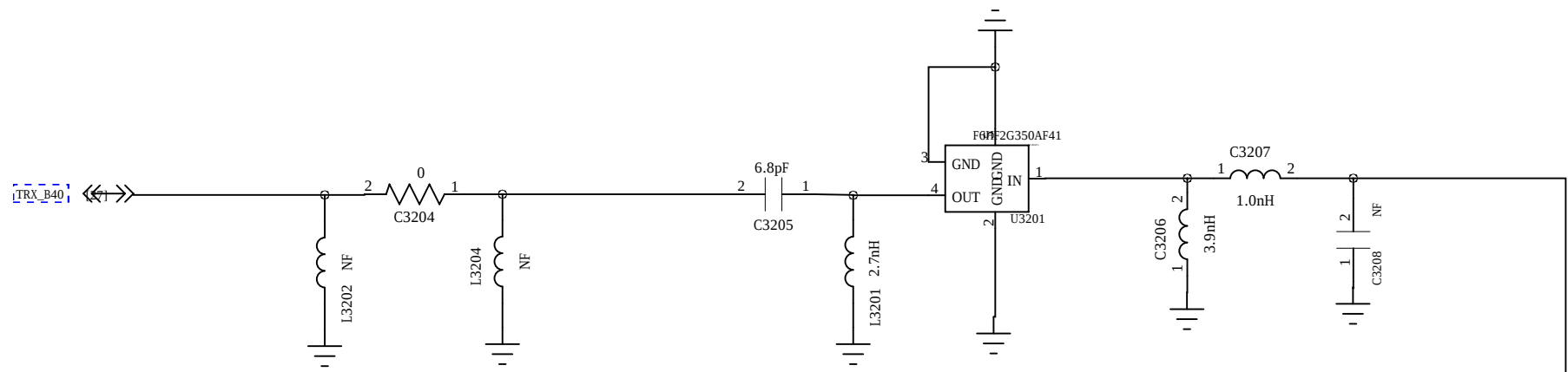
Note:RX ports have DC at the pin, so it need DC block,please make sure there is no DC short to other voltages and GND

SPDT





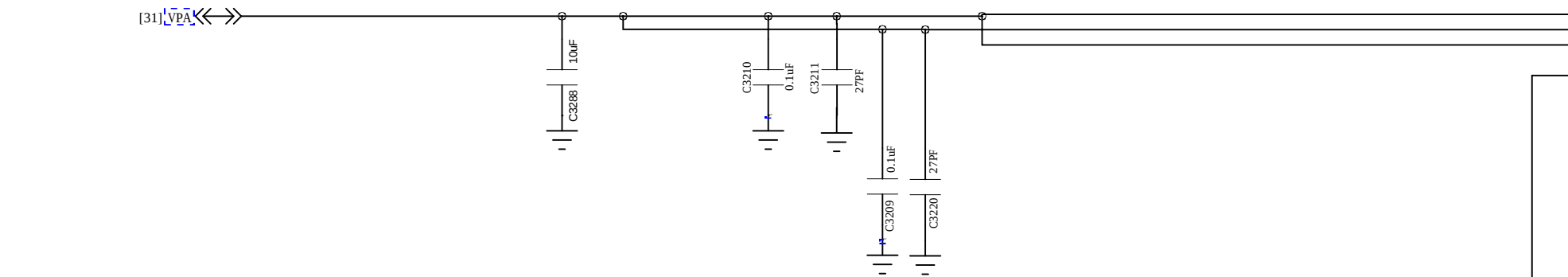
Band40



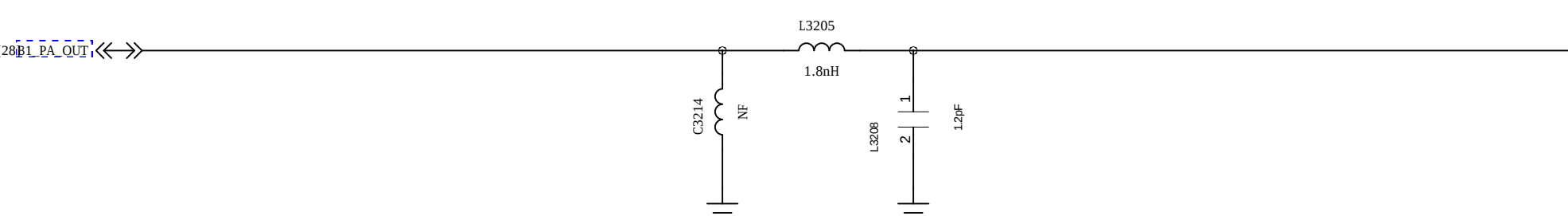
Band7



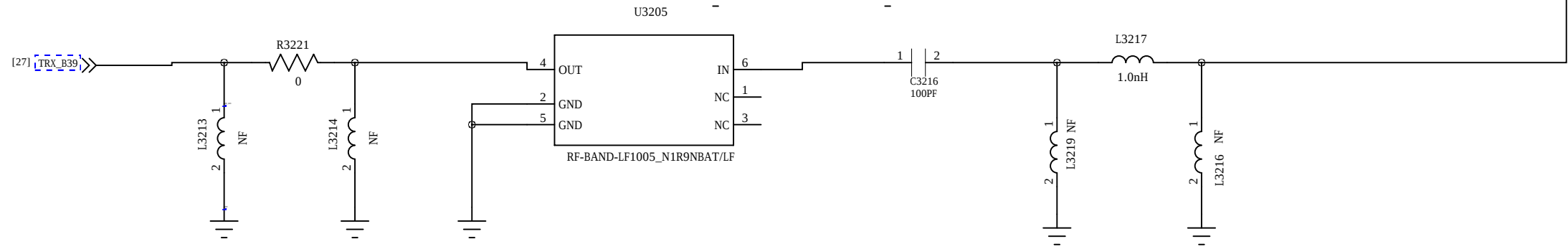
Band3



Band1



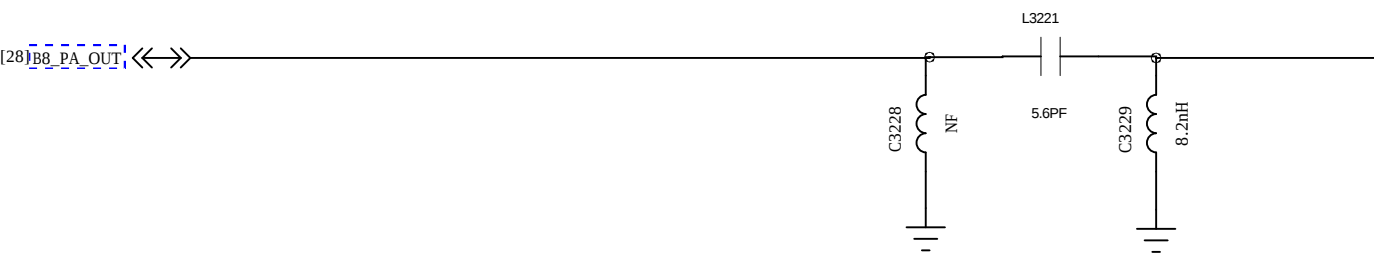
Band39



Band2



Band8



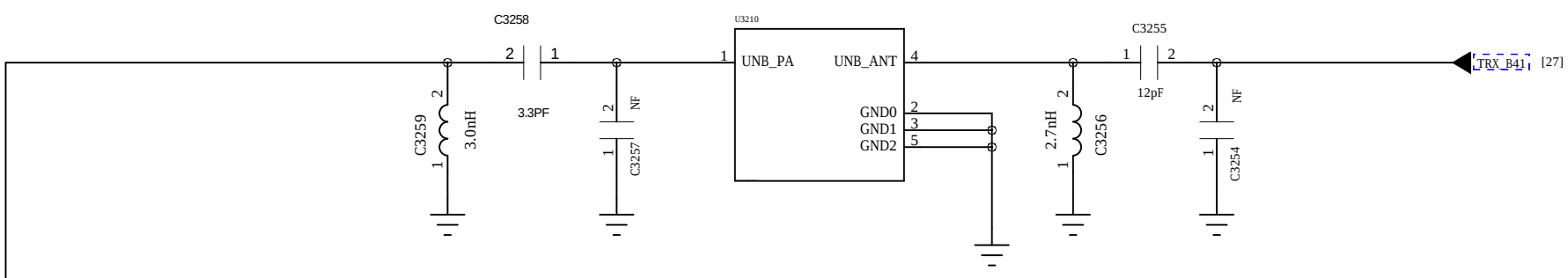
Band20



Band5

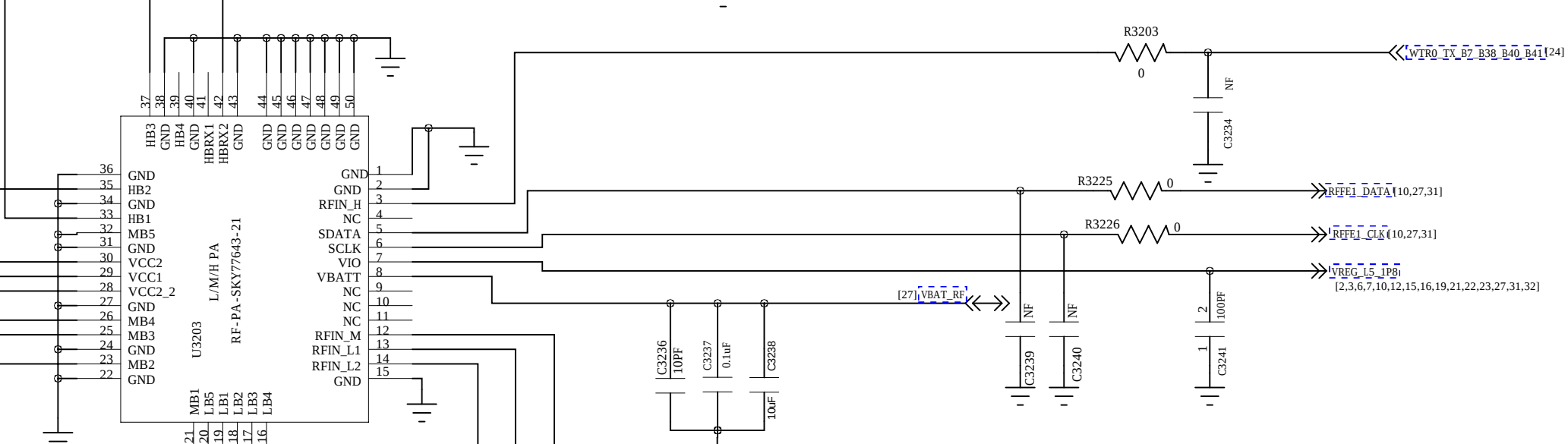


Band41

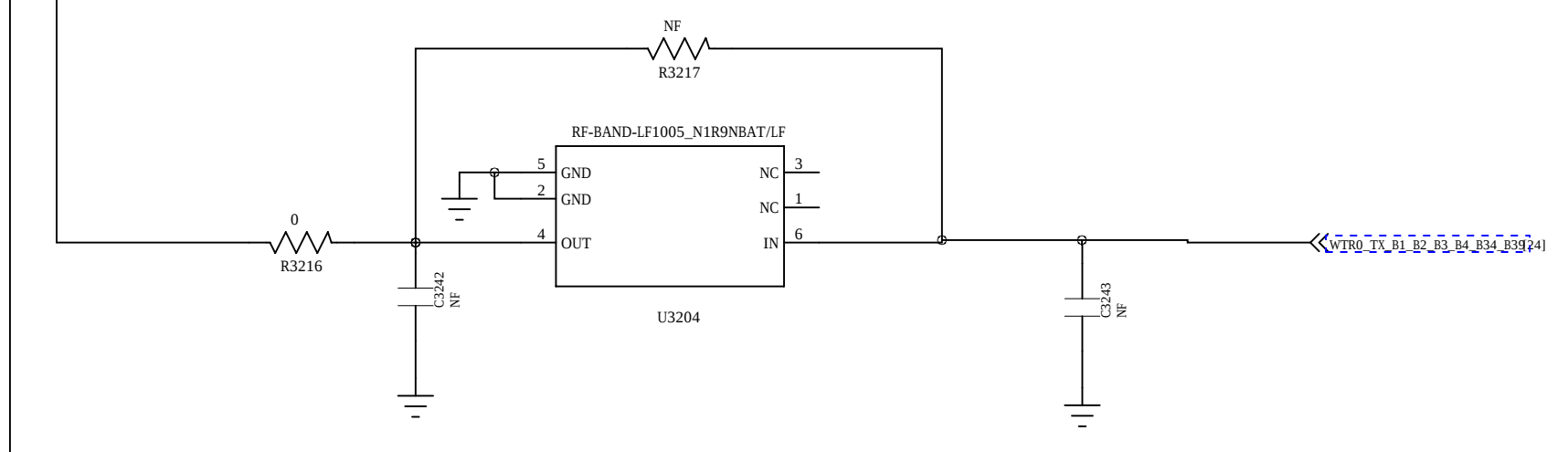


PRX_B40B41

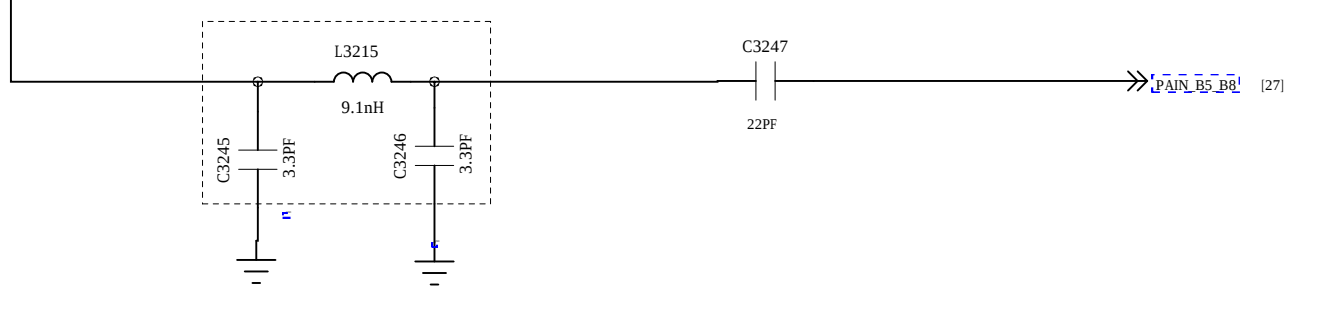
HB_IN



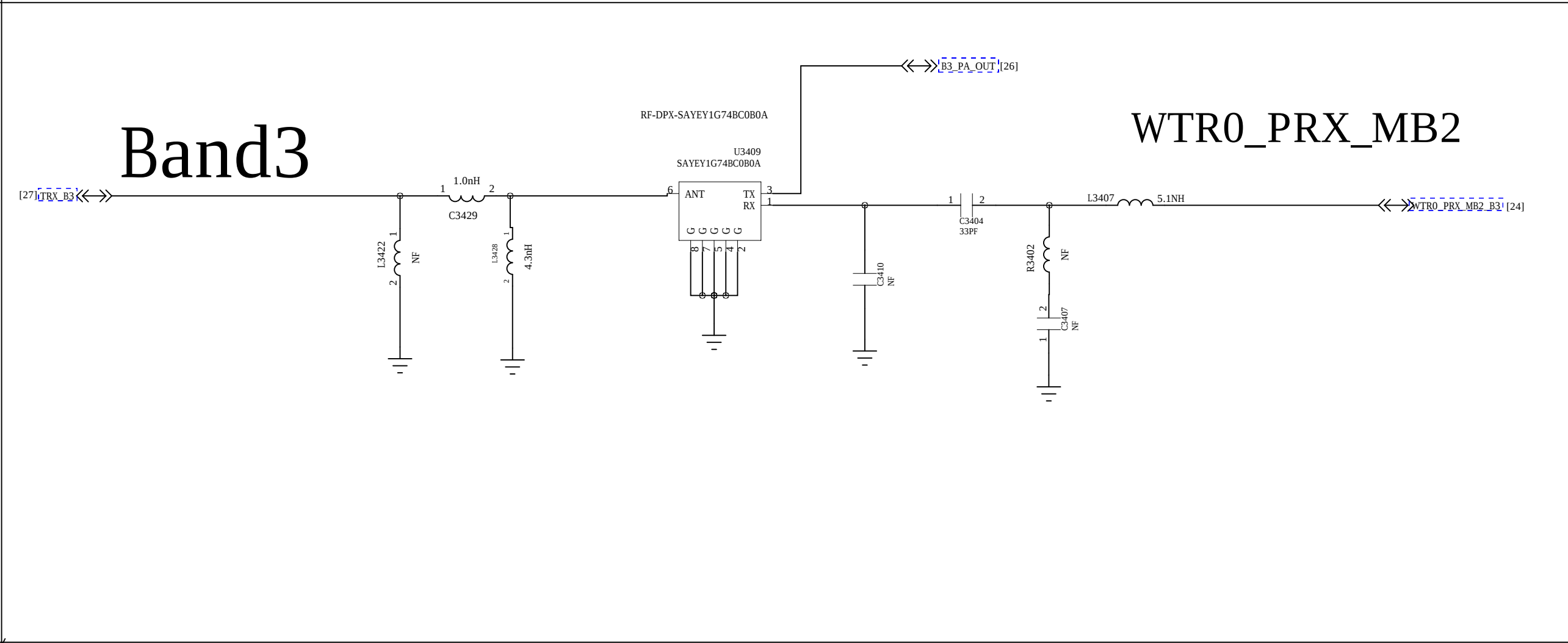
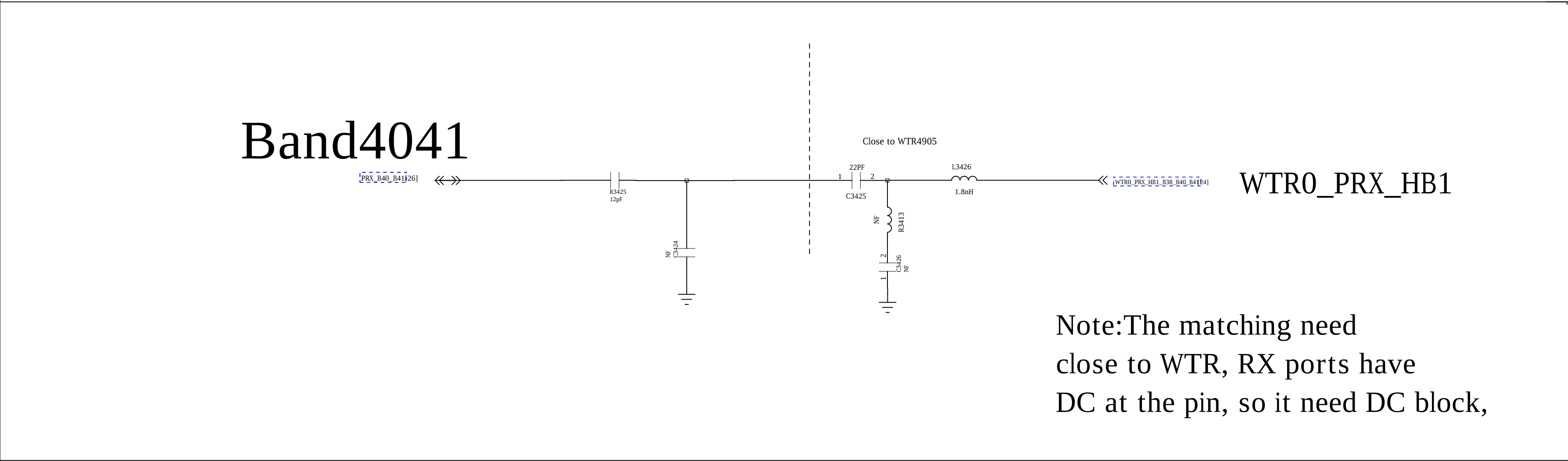
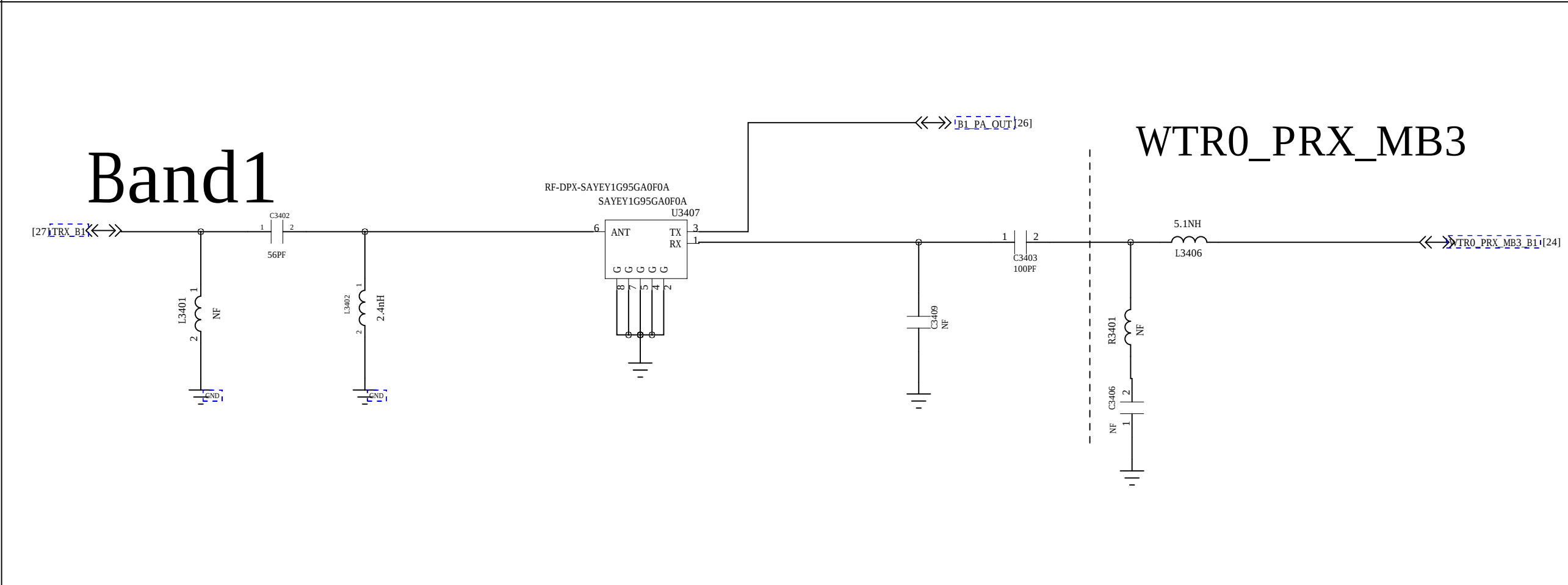
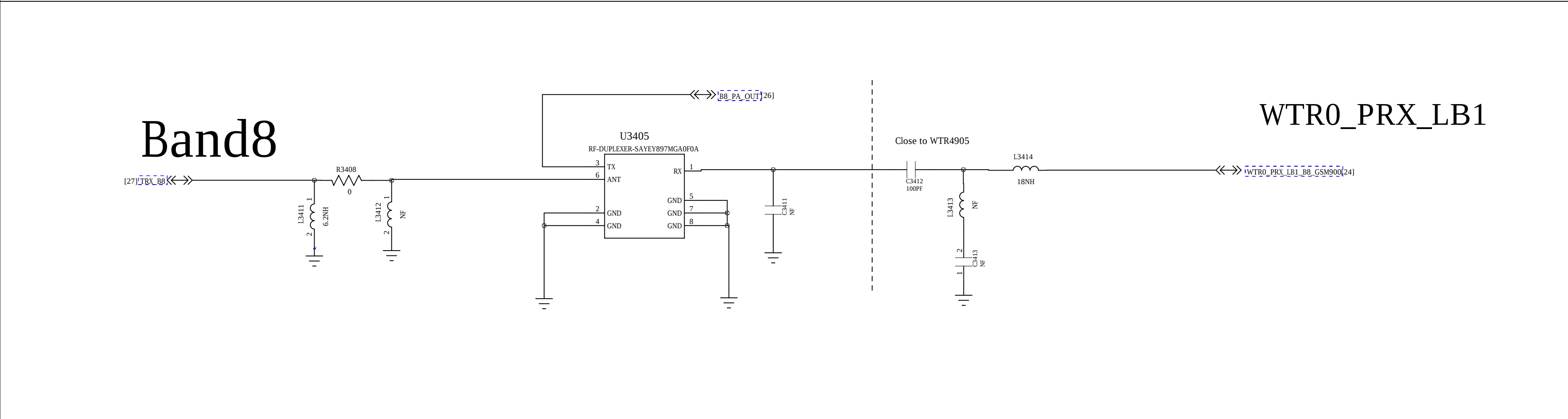
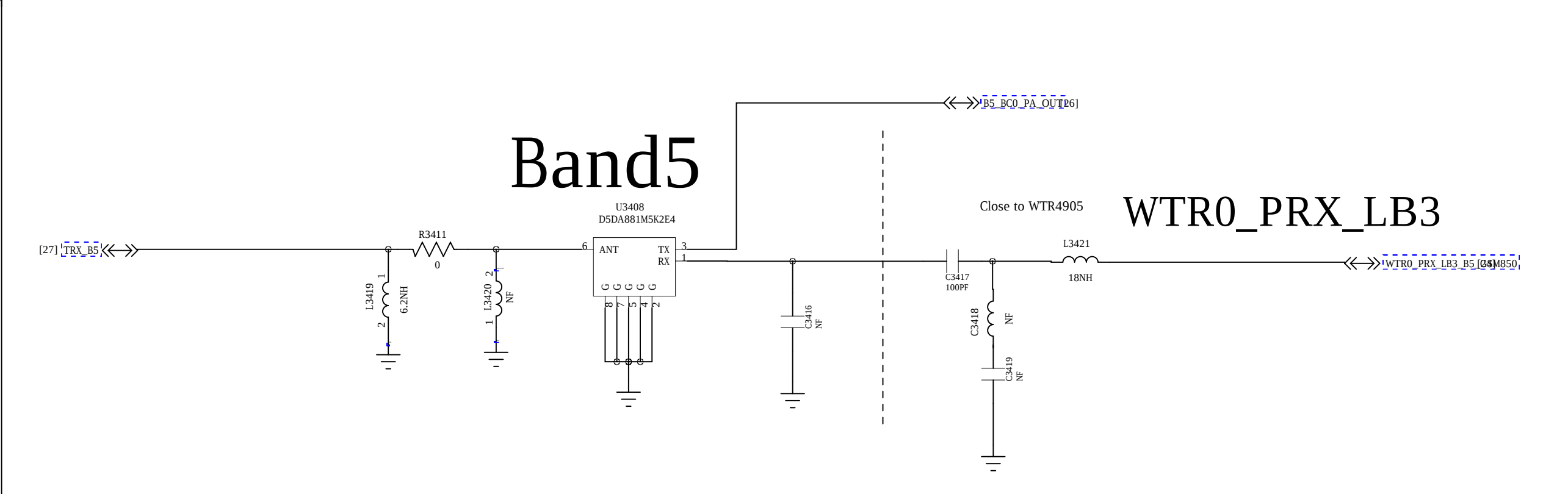
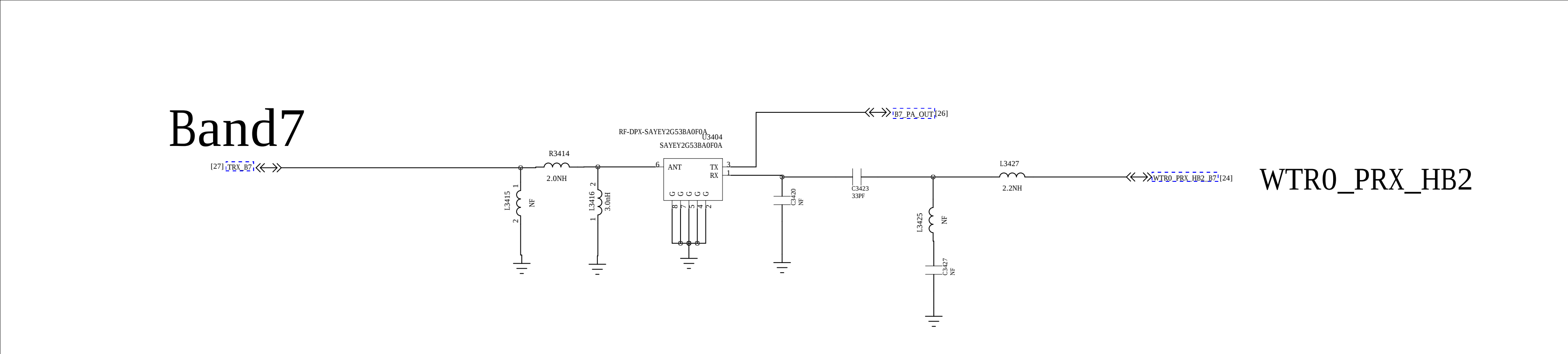
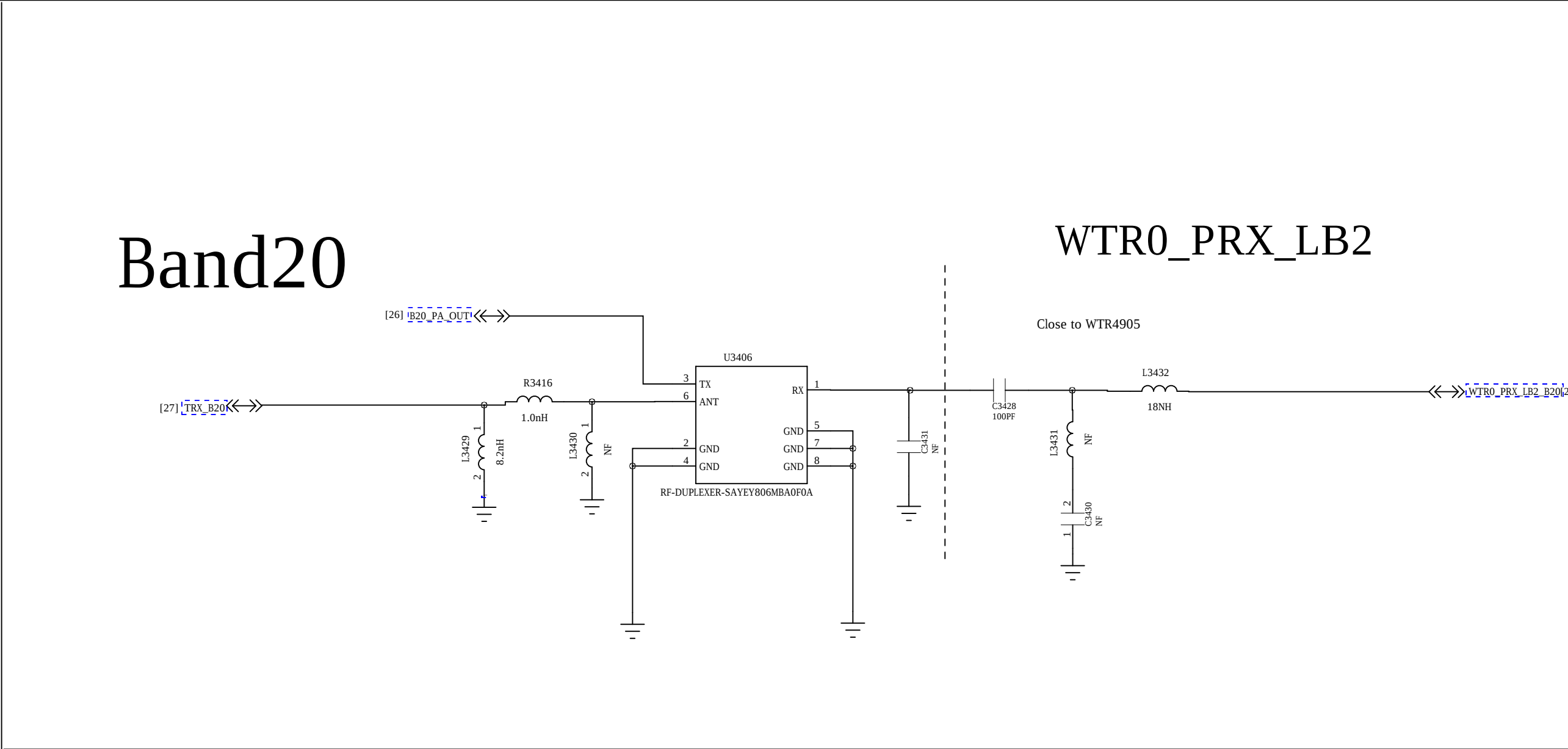
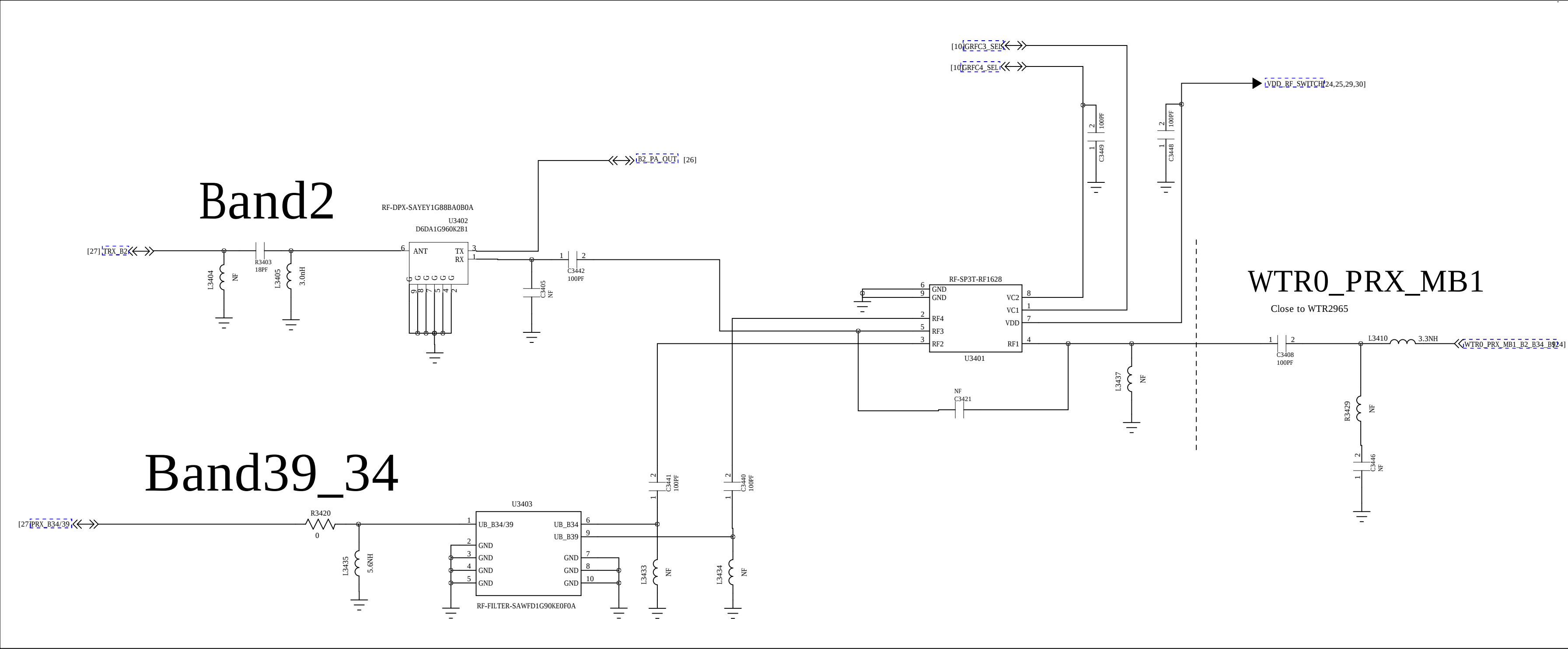
MB_IN



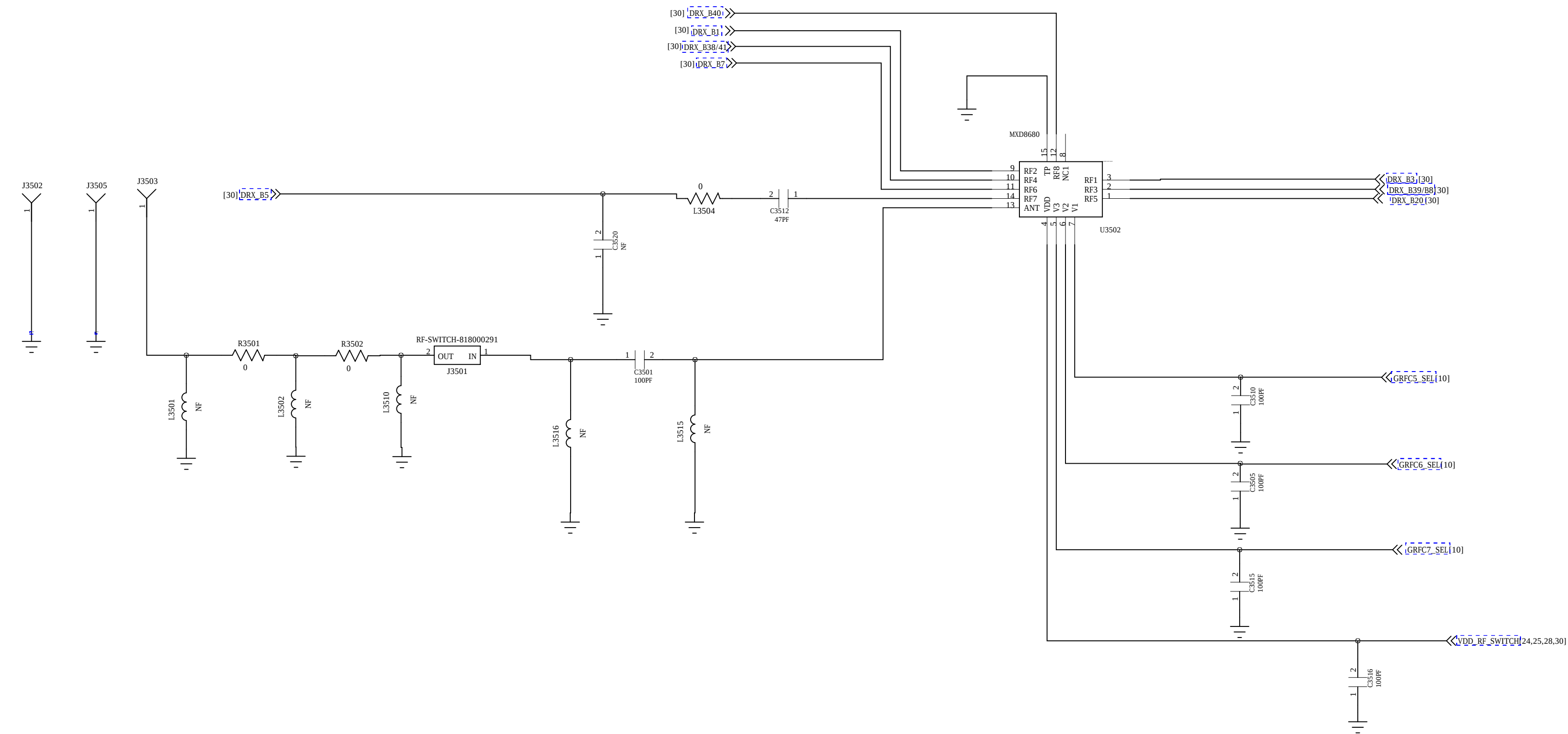
LB_IN



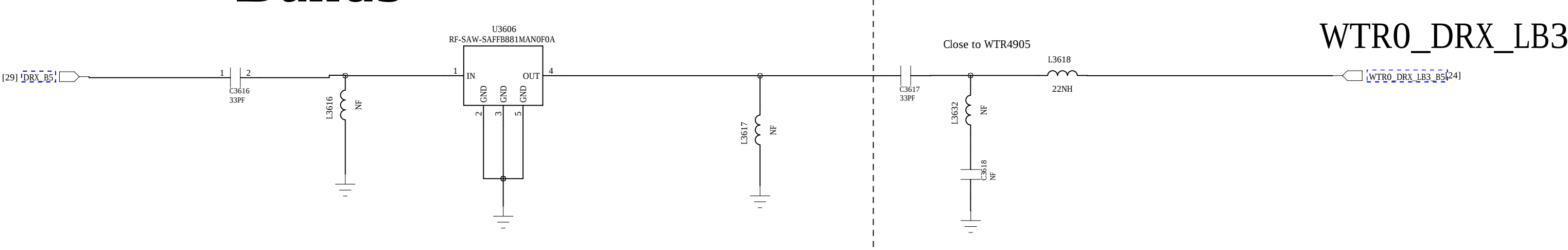
B5_B8



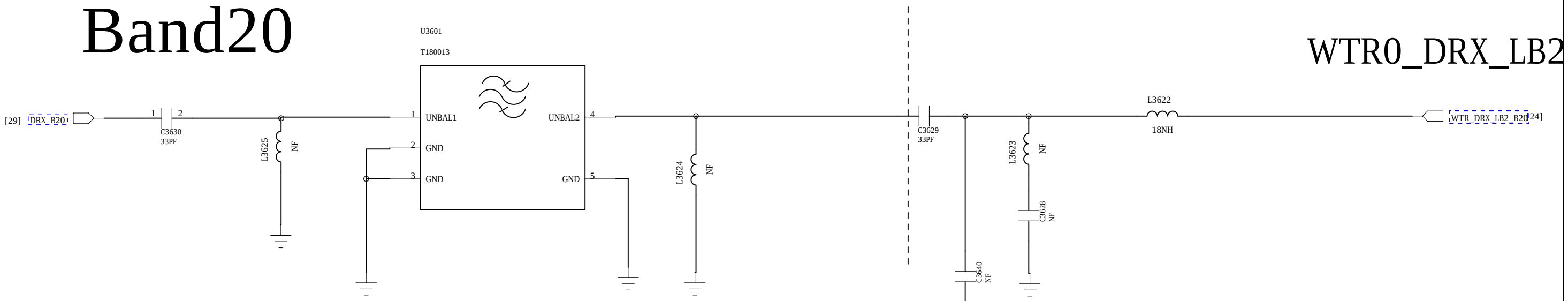
(VIETMOBILE.VN)



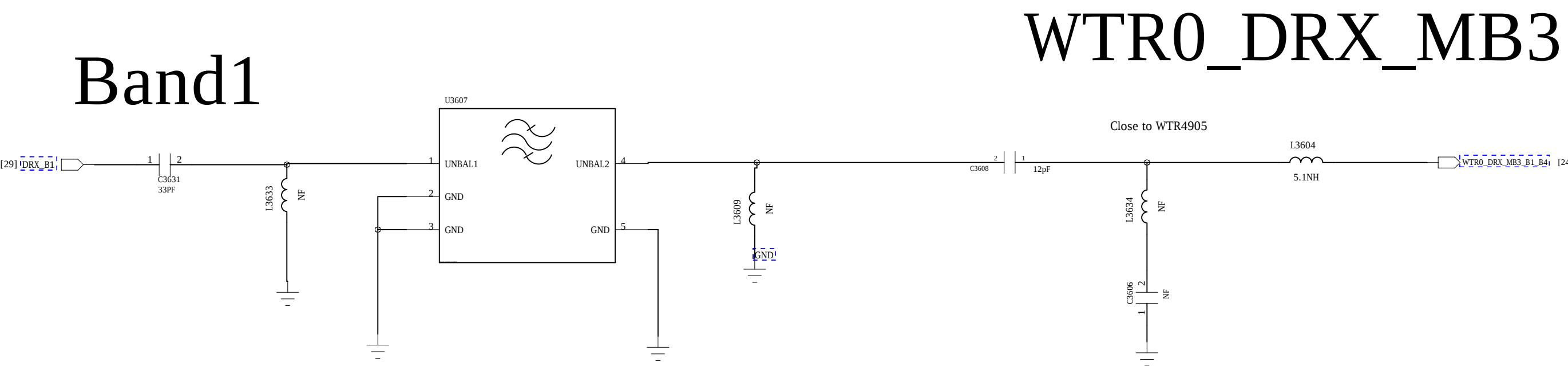
Band5



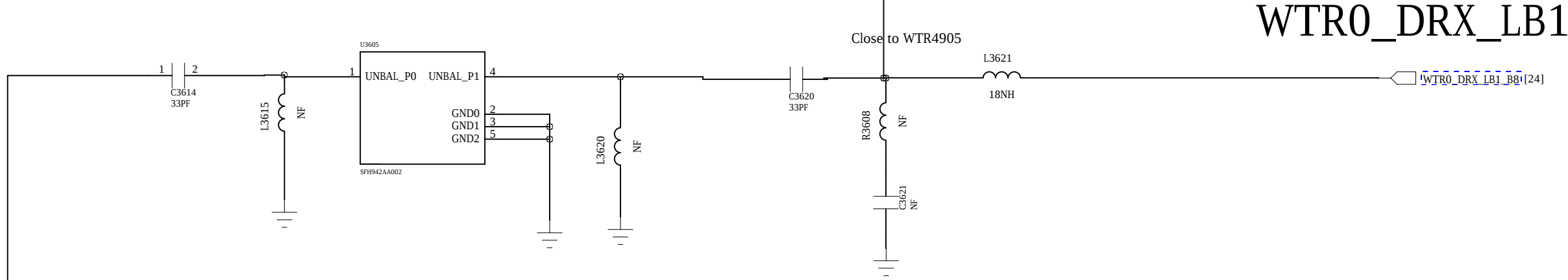
Band20



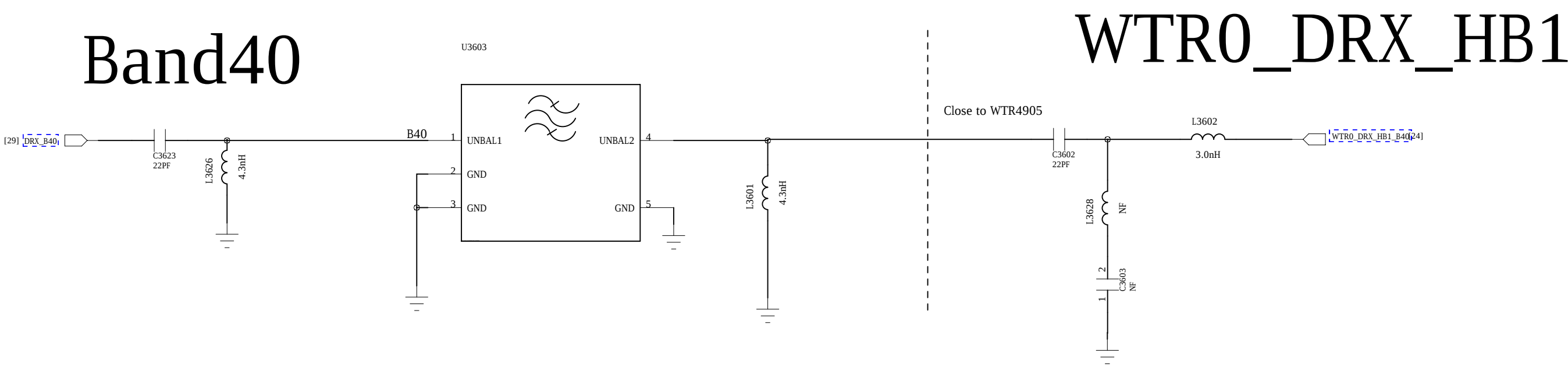
Band1



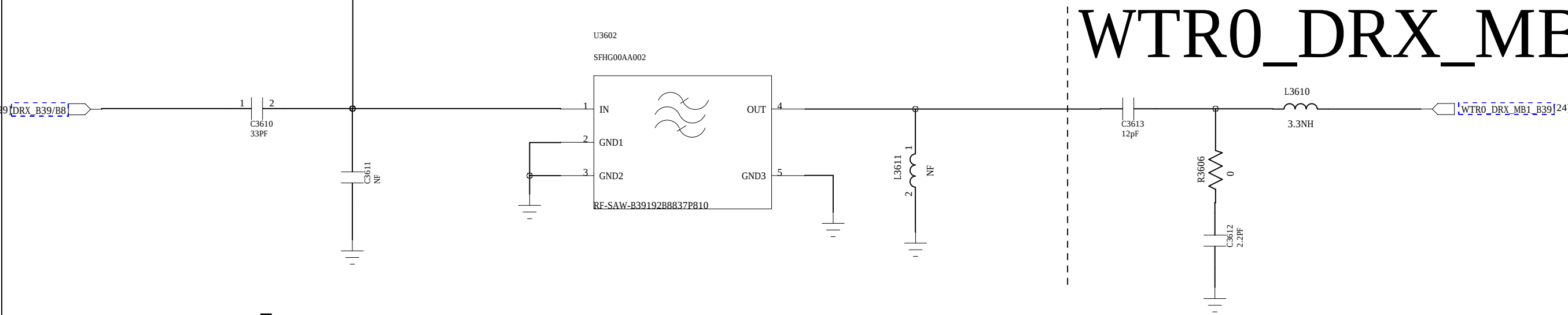
Band8



Band40

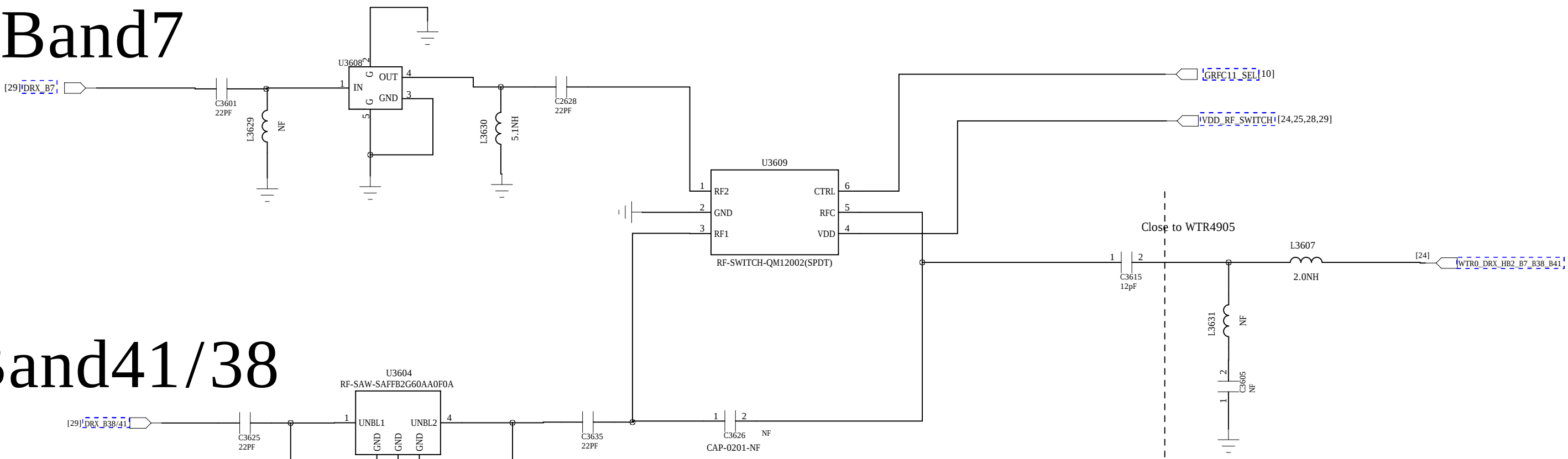


WTR0_DRX_MB1

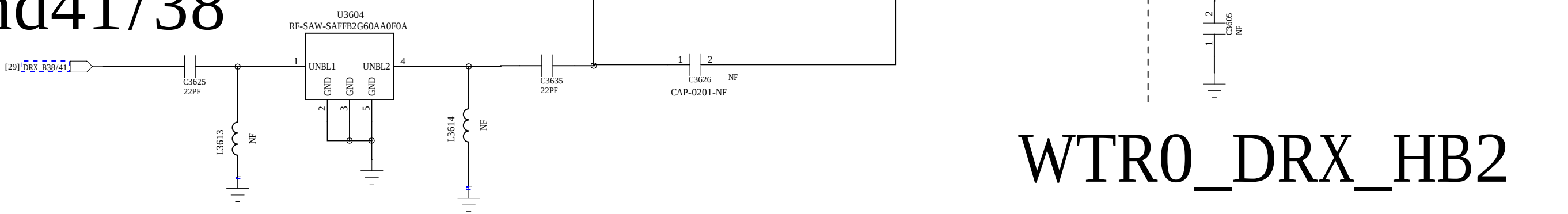


Band39

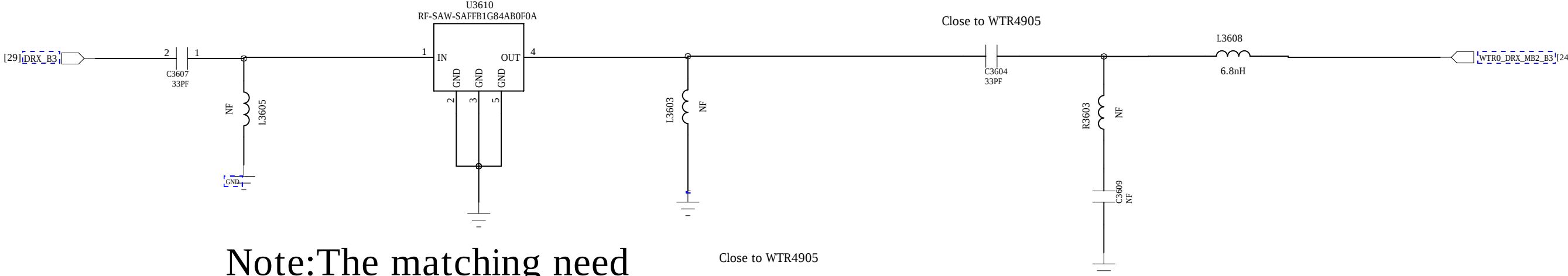
Band7



Band41/38



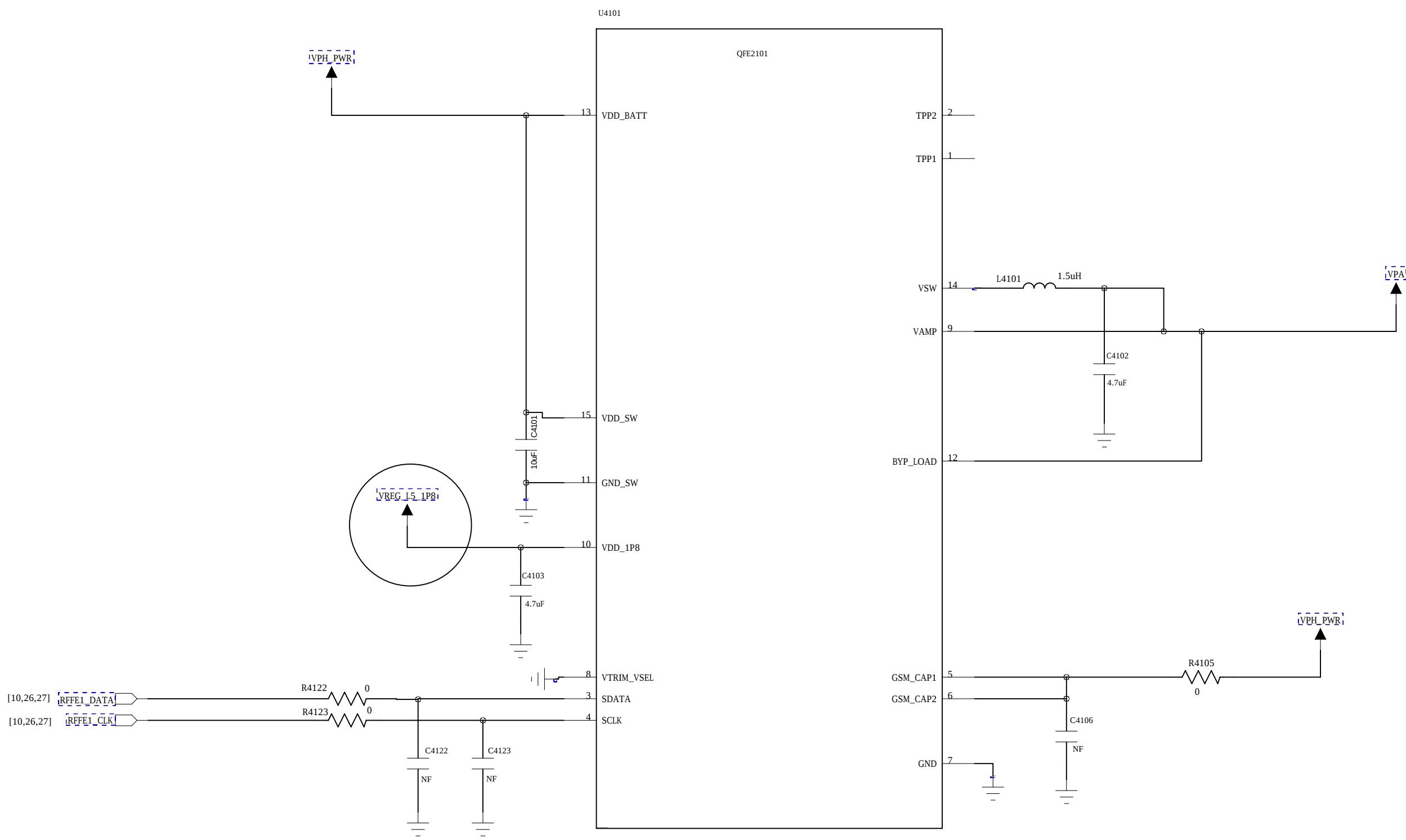
Band3



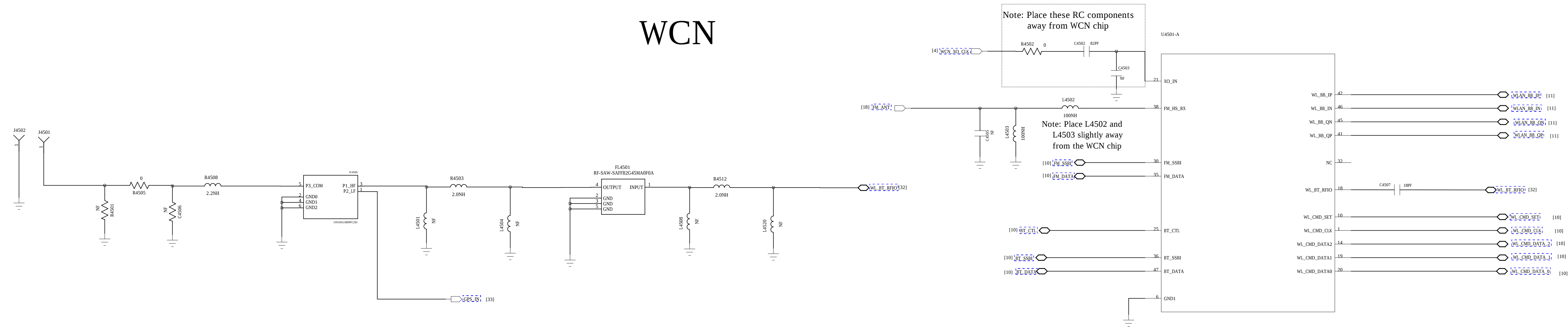
Note:The matching need close to WTR, RX ports have DC at the pin, so it need DC block,

Note: Use a single low impedance power plane/fill VPA for all ET PA VCC1/VCC2.

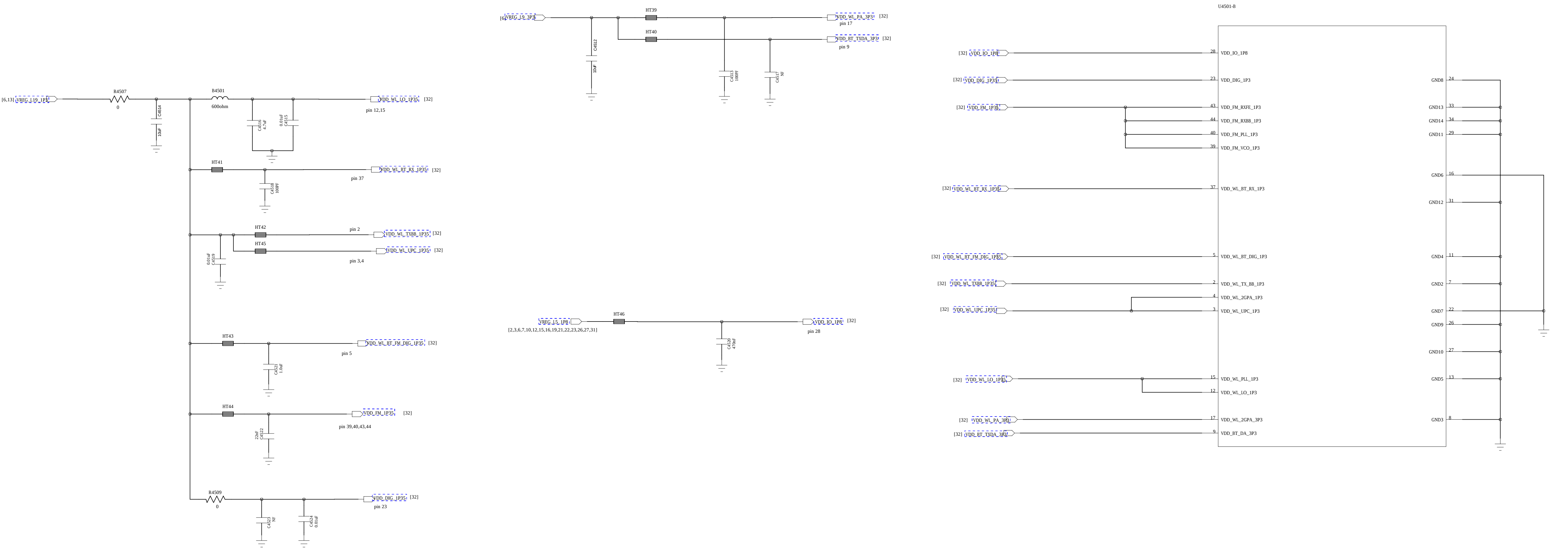
Refer to 80-NA681-91 rev.B or later revisions for more layout details.



WCN



(VIETMOBILE.VN)



GPS

