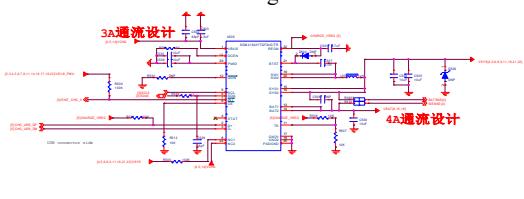
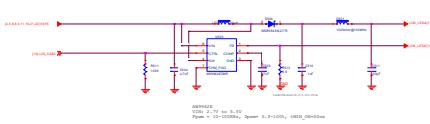


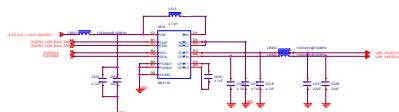
Charger



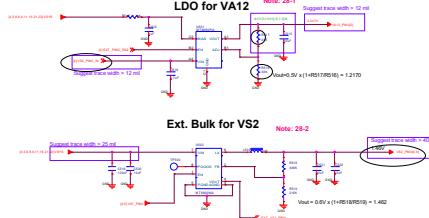
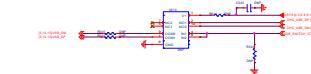
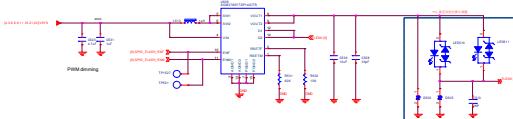
LCM Backlight LED driver



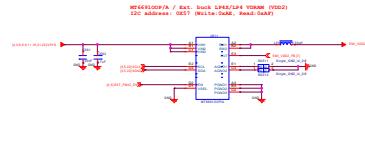
LCD Bias



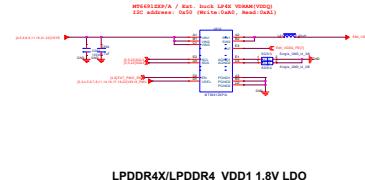
Flash LED 5V Boost



Ext. buck LPDDR4X/LPDDR4 VDRAM



Ext. buck LPDDR4X VDDQ



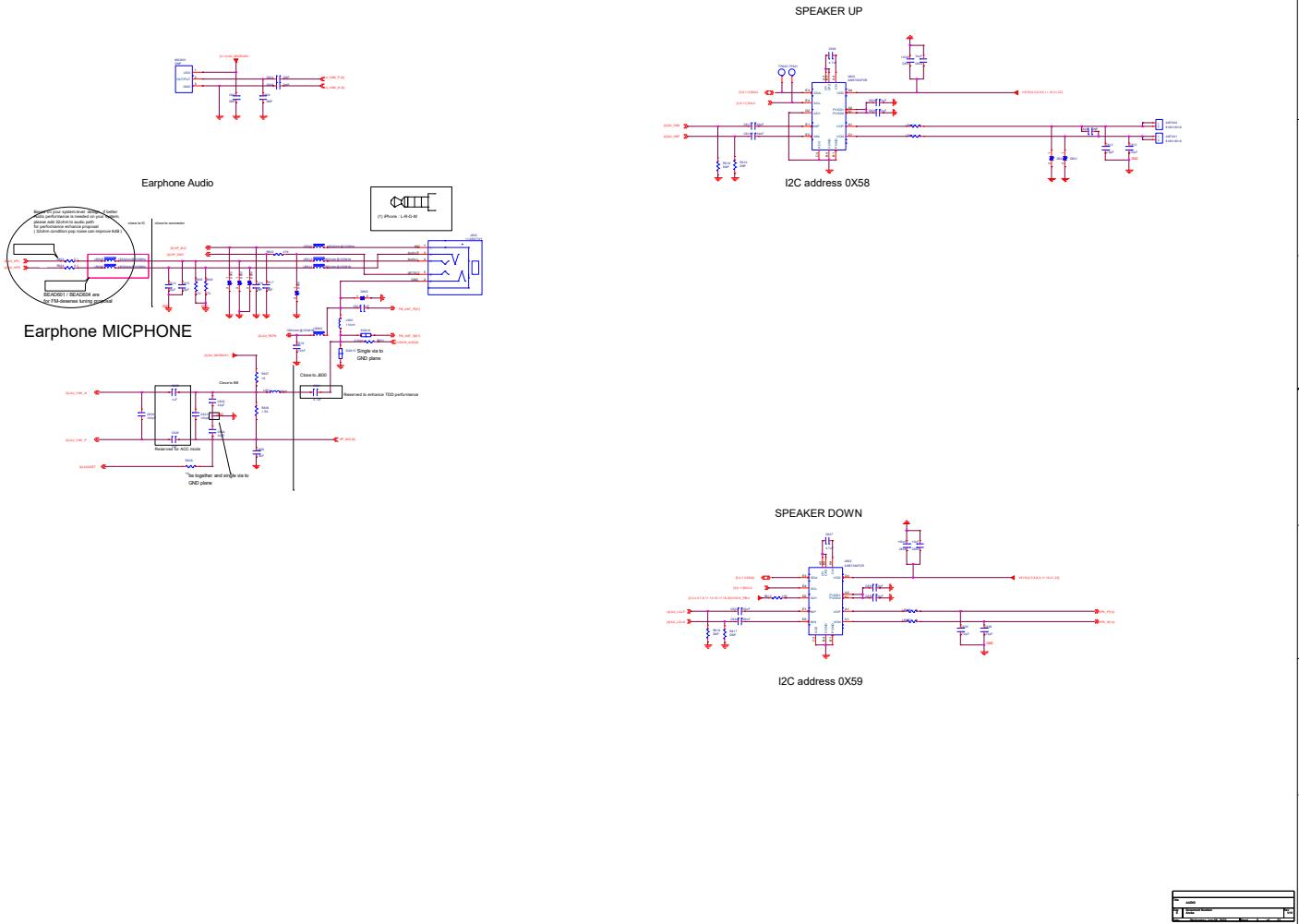
LPDDR4X/LPDDR4 VDD1 1.8V LDO

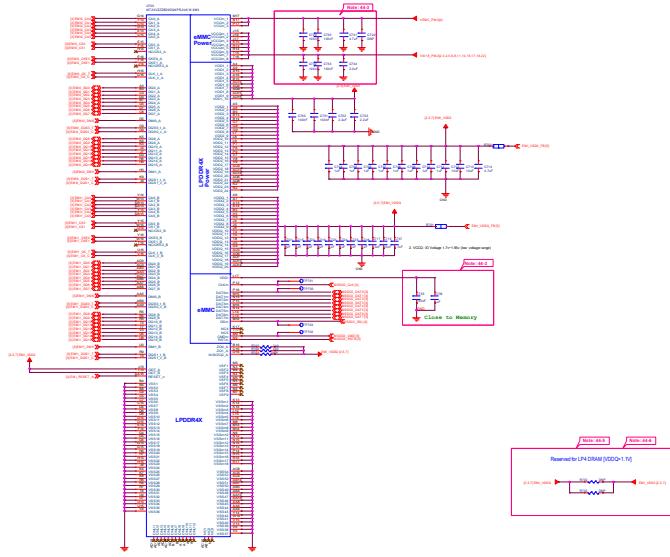


Schematic design notice of "28_POWER_ThirdPartyPower"

Note 28-1 VA12 Layout placement please close to AP
Note 28-2 VDQ2 Buck Layout placement, please close to PMIC MT6357
Note 28-3 VCN31 LDO Layout placement please close to MT6357

Handset 2nd Microphone





Note 44-1: Please refer to power supply related page select output voltage property for LP4XL/P4

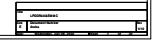
Note 44-2: DRAM ZDx resistor = 240mOhm (1%) that must be connected to VDDQ.

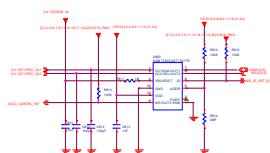
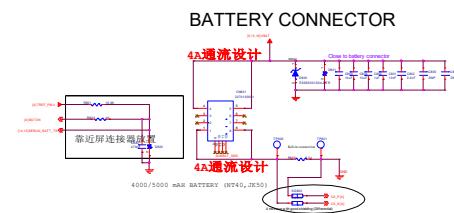
Note 44-3: Please refer to eMCP vendor's datasheet or MTK common design notice to get the recommended decoupling cap placement and the required VDDQ power domain of eMMC.

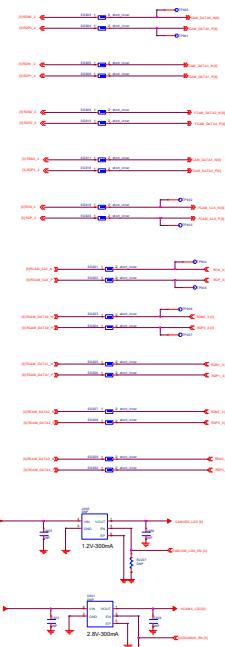
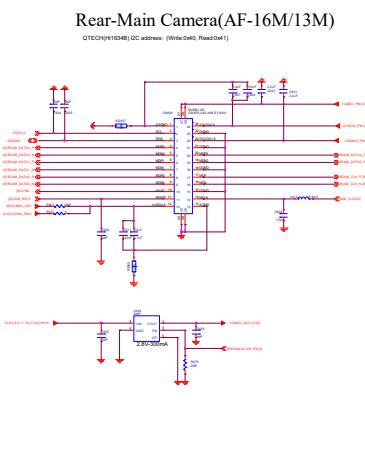
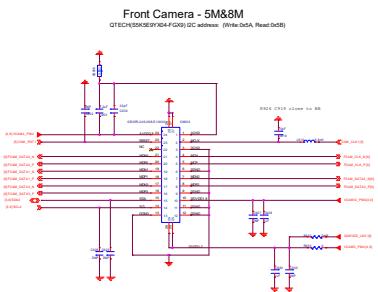
Note 44-4: VDDQ VIDEO decoupling cap: closest to DRAM ball
For other cap for PMC >10uF, at PMC page[
can be placed on the board or on the component placement]

Note 44-5:	DRAM type	R704	R704A	LPDDR4X	LPDDR4X
	LPDDR4	Mount	NC	NC	NC
	eMMC	Mount	LPDDR4X-eMMC	NC	NC
	LPDDR4	Mount	NC	NC	NC
	C606/C604	NC	Mount	NC	NC

Note 44-6: R703/R704 could be replaced with 0-ohm / 0402 * 3 for LP4 DRAM

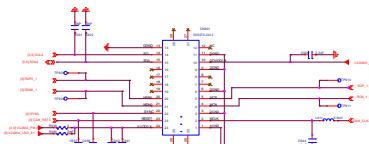






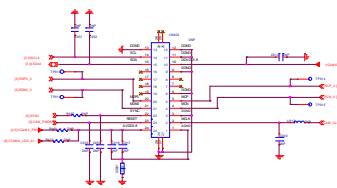
Dual CAM
Rear-Slave-FF Camera 2M Depth

TSP/CCD/MI-C2419S DC address: (Write0x0B, Read0x0C)

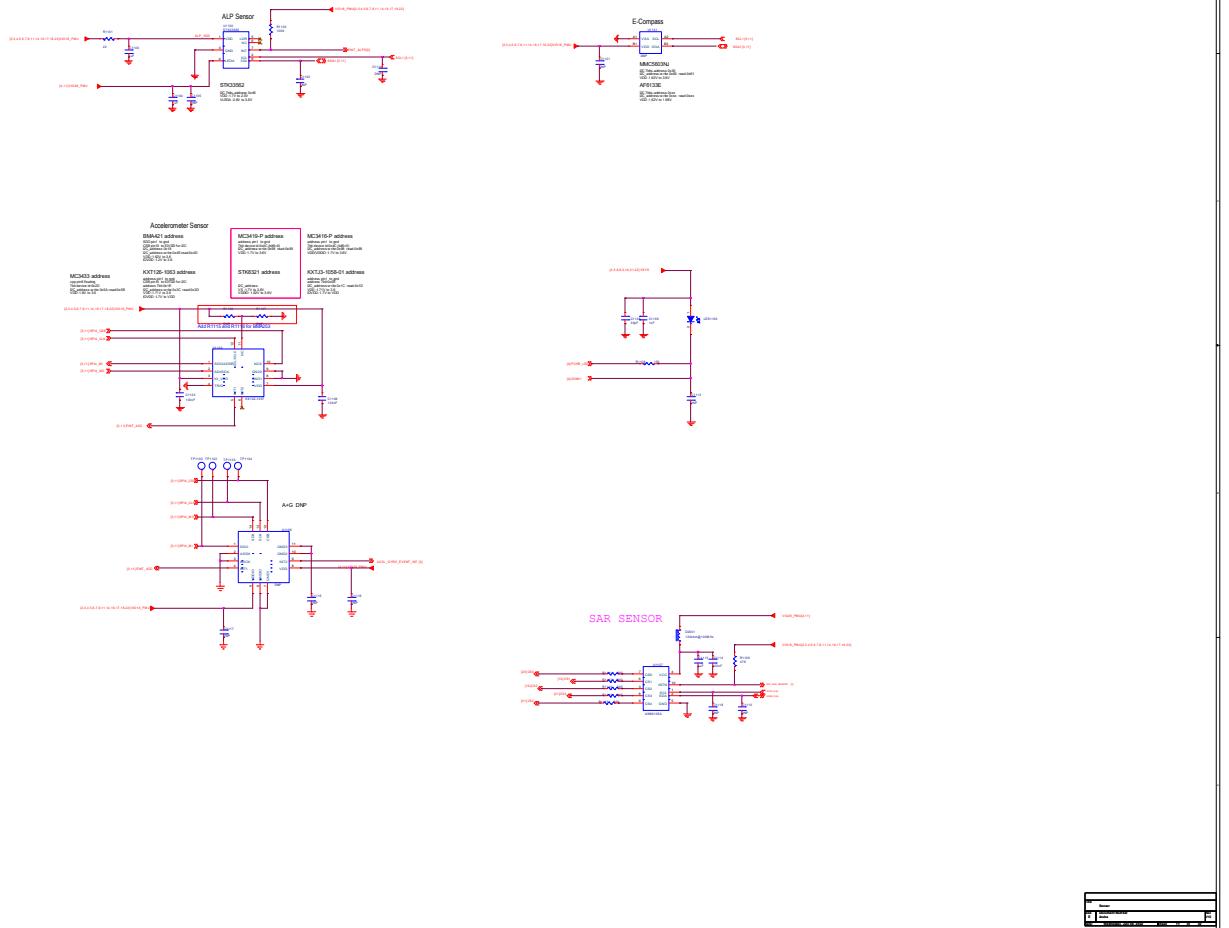


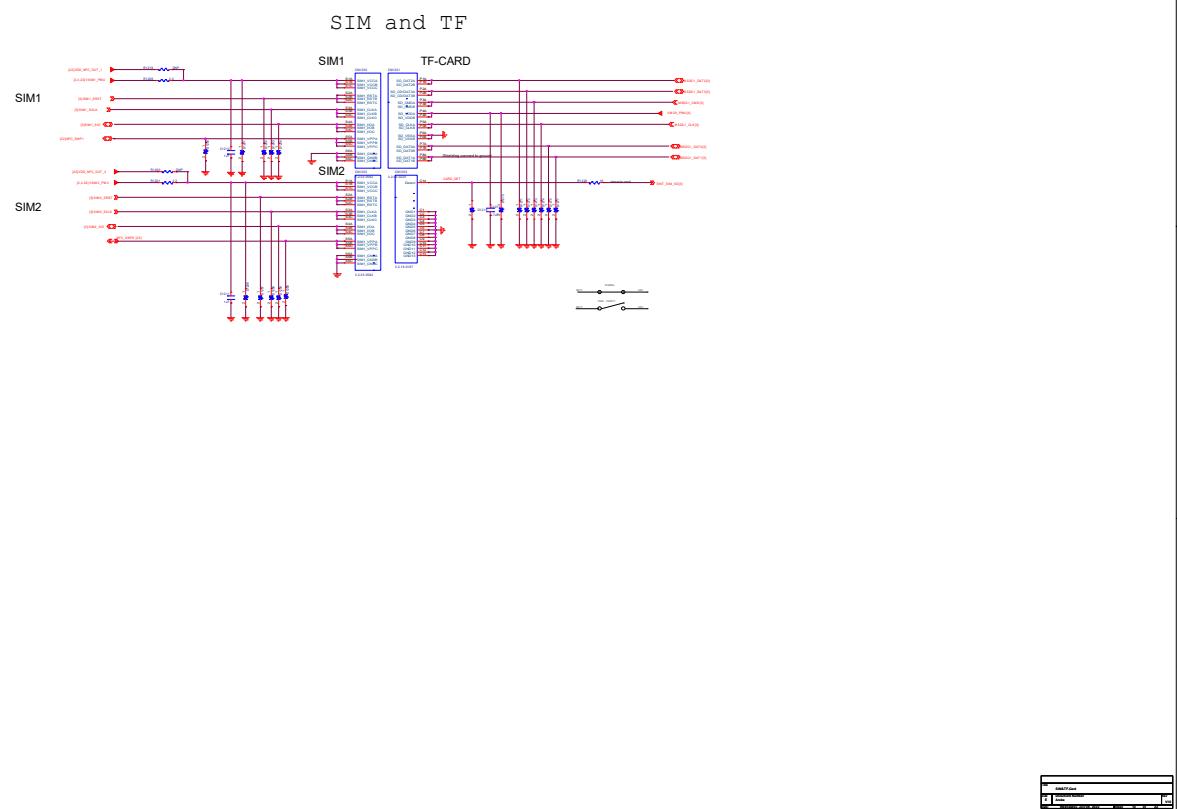
Dual CAM
Rear-Slave-FF Camera 2M Macro

Rear camera Union image ST-ZHAK5TFF-V1 DC address: (Write0x0D, Read0x0E)





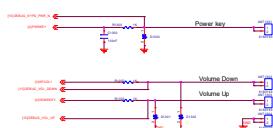


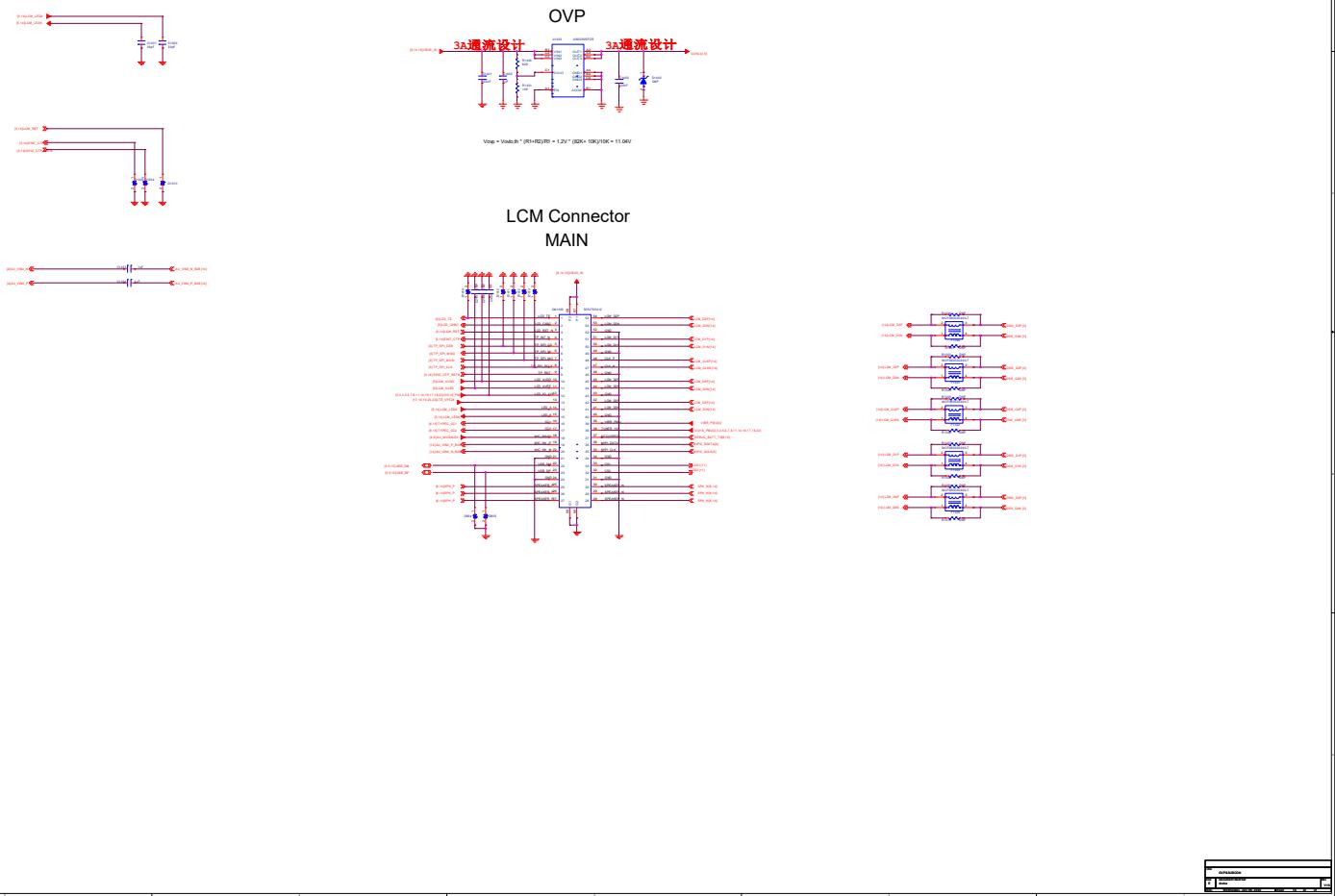


KEY

Volume Up : HOME Key / GND
Volume Down : KPCOLV/GND

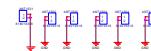
DO NOT put pull-up resistor on PWRKEY



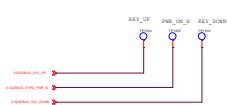


Download mode TP

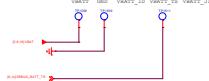
USB Test point



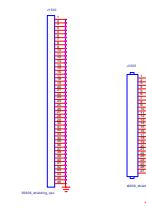
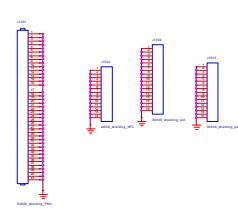
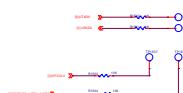
KEY Test point

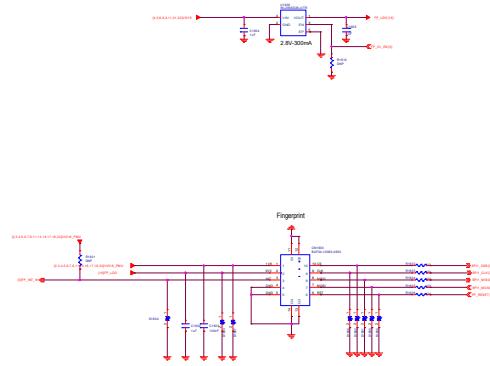


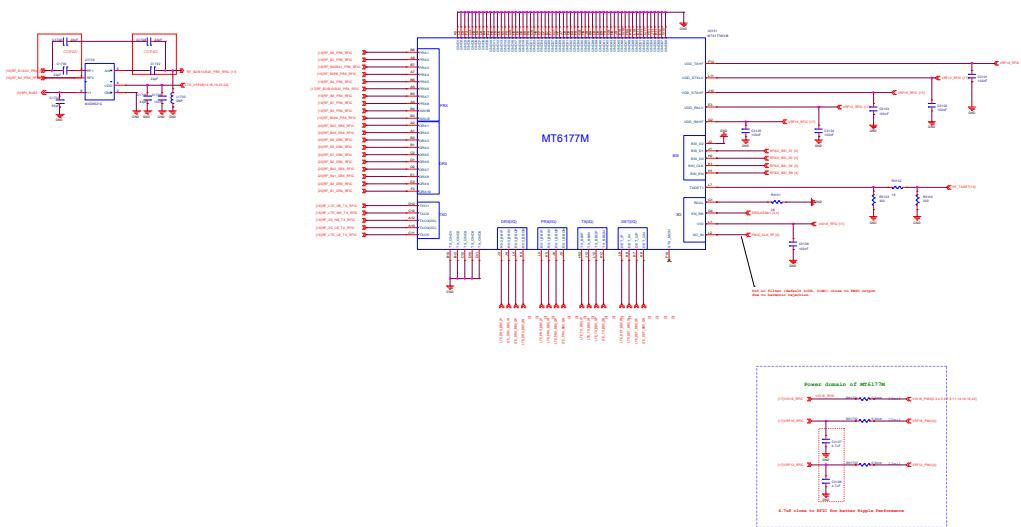
BATTERY Test point



UART







RF MT6177



