

SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.

Title
RT5037

Size
A1

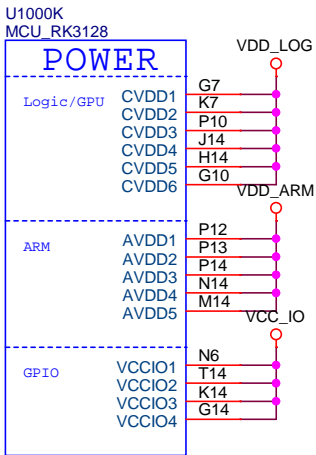
Date: Thursday, May 18, 2017

Document Number

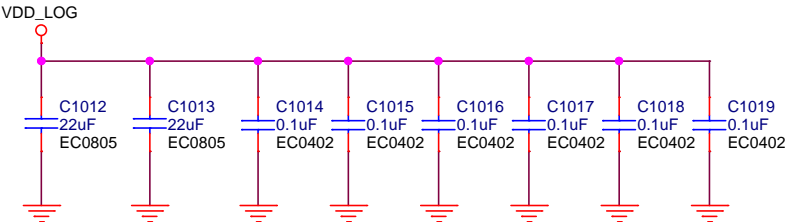
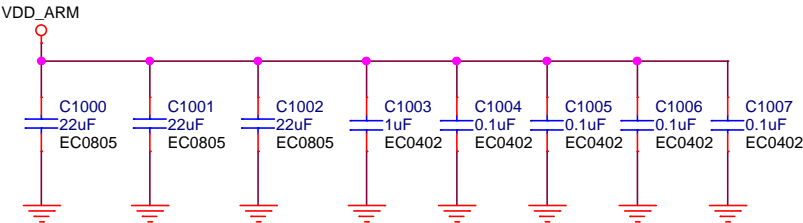
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Rev
A3

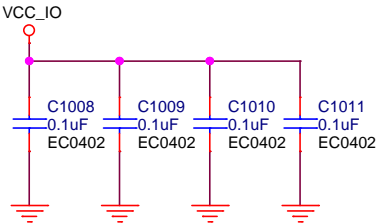
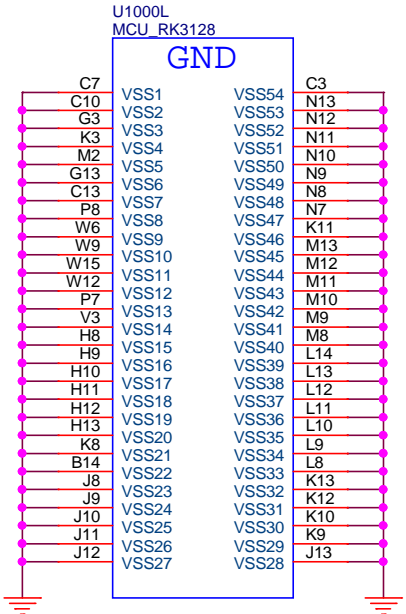
RK3128-K



Note:
Place these filter capacitors under CPU.



RK3128-L



SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.

Title
RK3128 POWER

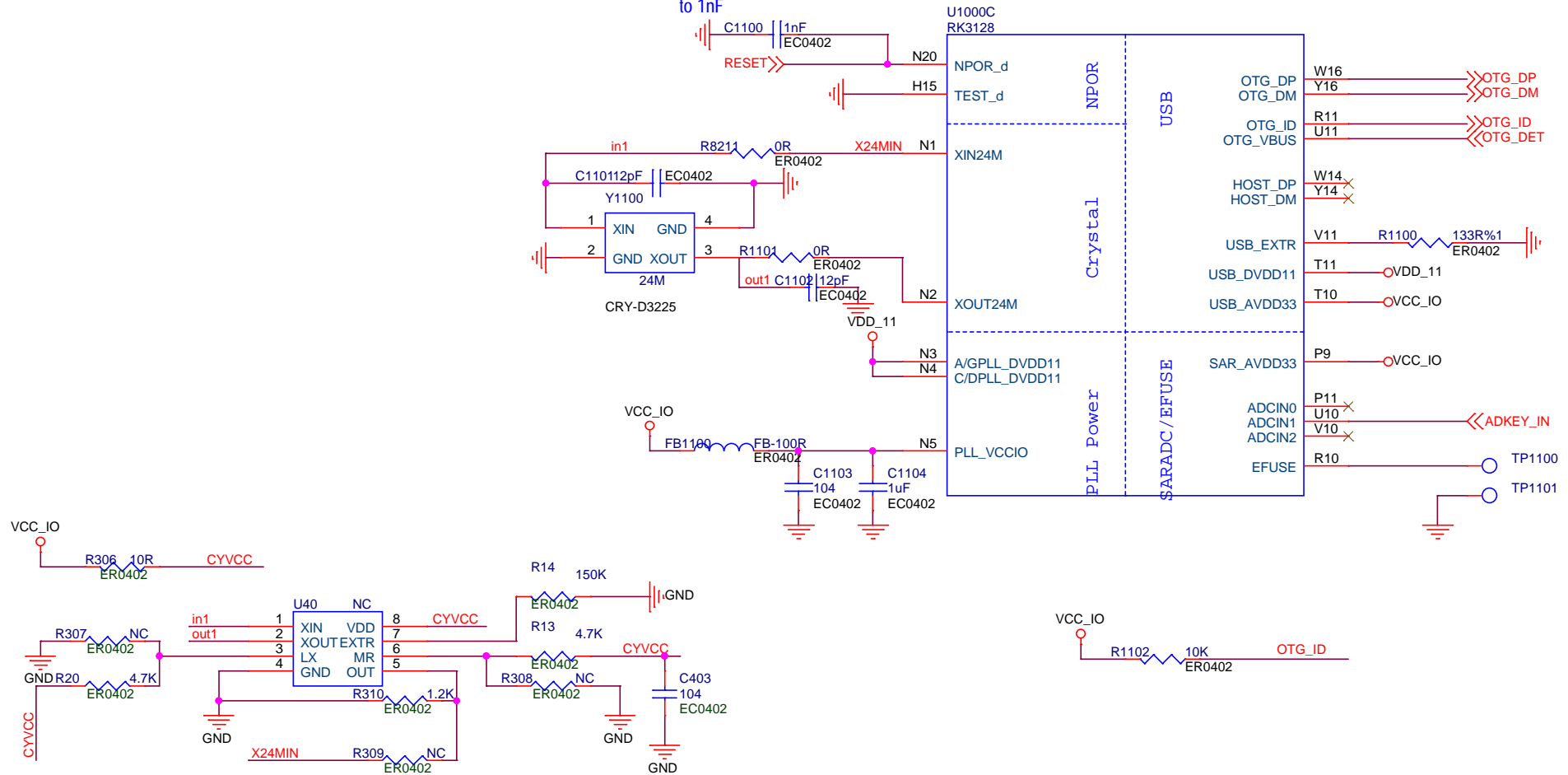
Size Document Number
A1

Rev
A3

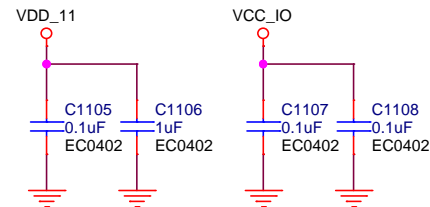
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RK3128-C

External capacitance @RESET change to 1nF



Note: All the capacitors should be placed close to the power pins of RK3128.



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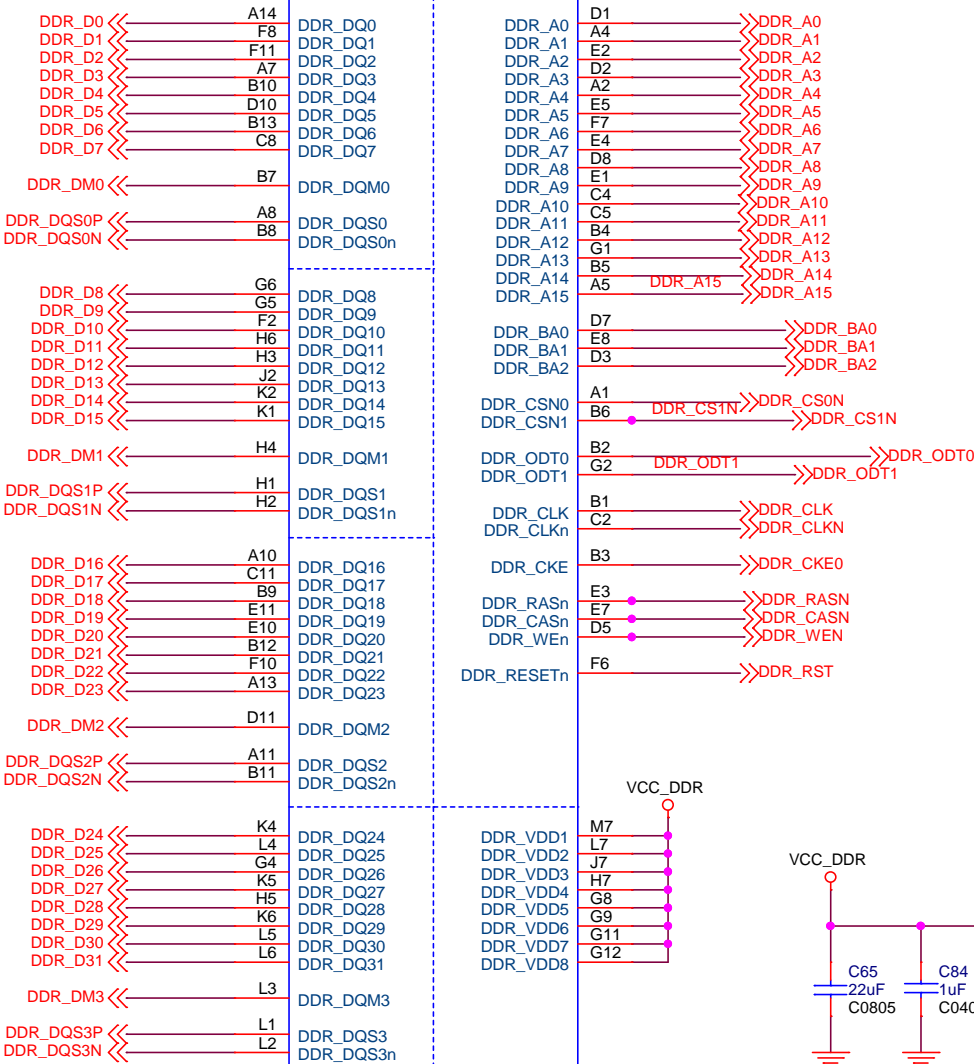
Title
MISC&USB

Size	Document Number	Rev
	A1	A3

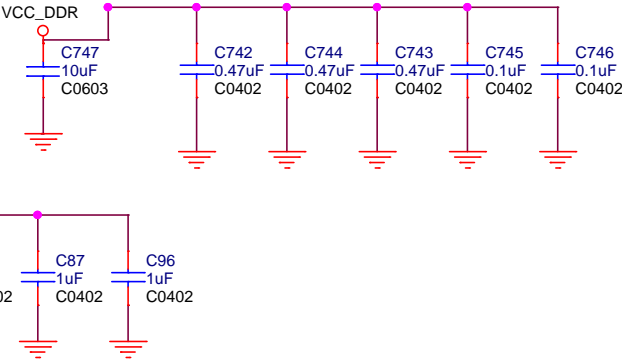
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U1000J

Memory



RK3128



SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.

Title
RK3128 DDR

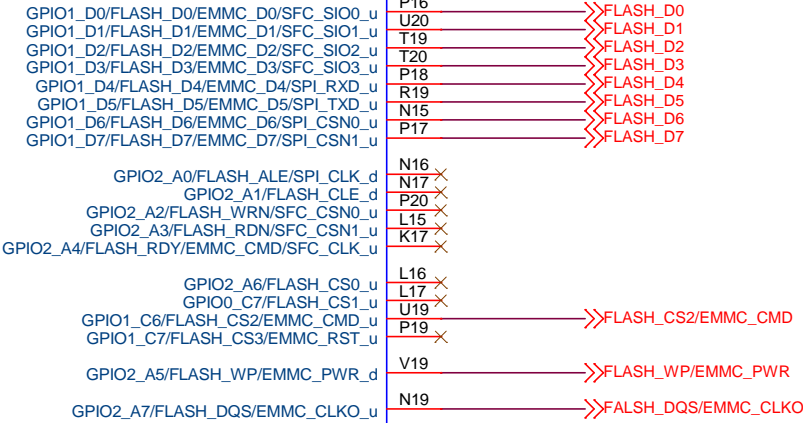
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RK3128-E

U1000E
RK3128

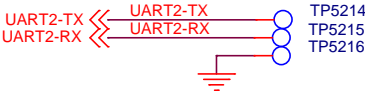
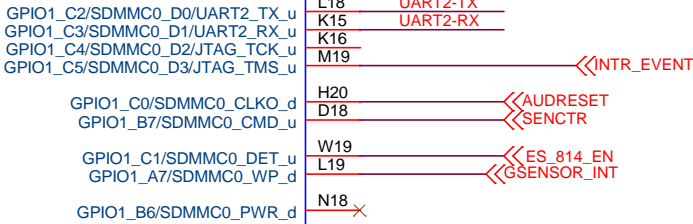
Nand Flash/eMMC/SFC/SPI



RK3128-D

U1000D
RK3128

SDMMC0



SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.

Title
RK3128 FLASH&SD

Size Document Number
A1

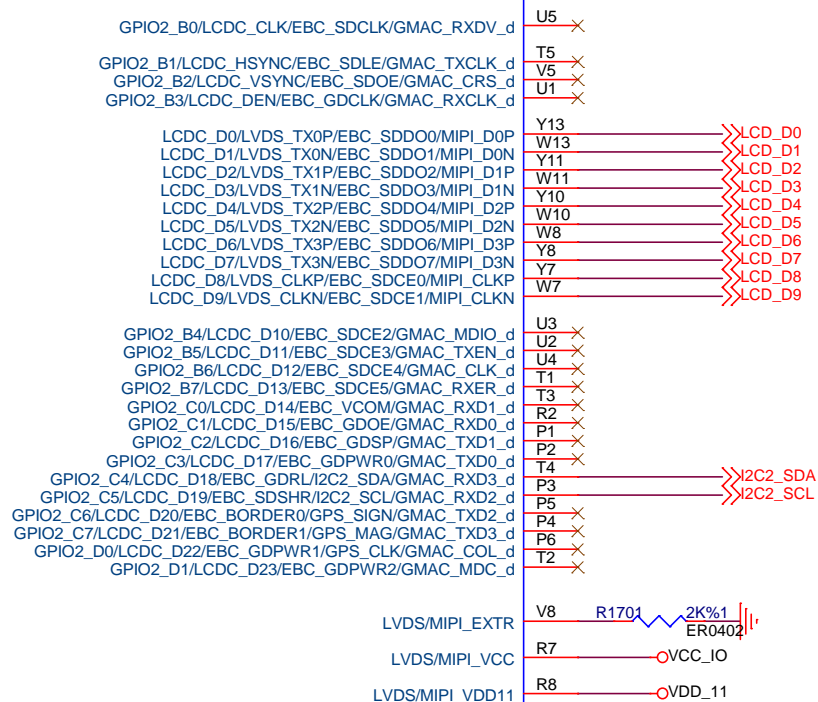
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RK3128-A

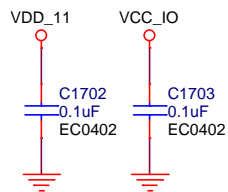
U1000A
RK3128

LCD / LVDS / MIPI / GMAC / EMAC



Correspondence between LCDC DATA and RGB

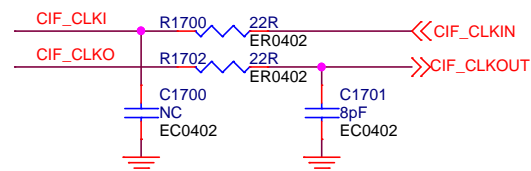
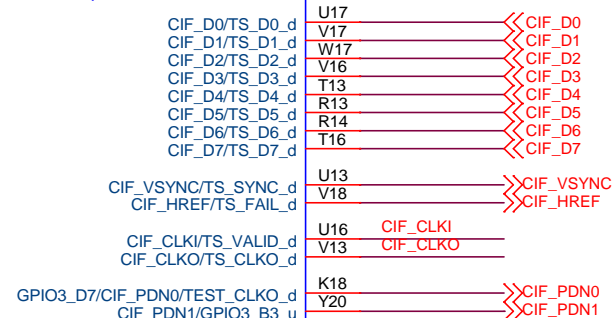
LCDC_D0	B2	LCDC_D9	G5
LCDC_D1	B3	LCDC_D10	G6
LCDC_D2	B4	LCDC_D11	G7
LCDC_D3	B5	LCDC_D12	R2
LCDC_D4	B6	LCDC_D13	R3
LCDC_D5	B7	LCDC_D14	R4
LCDC_D6	G2	LCDC_D15	R5
LCDC_D7	G3	LCDC_D16	R6
LCDC_D8	G4	LCDC_D17	R7



RK3128-B

U1000B
RK3128

CIF / TS



Note: 四器件根据测试结果，可选择否NC。

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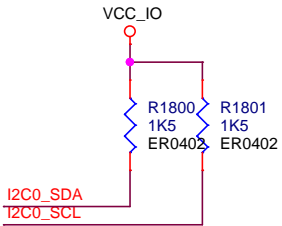
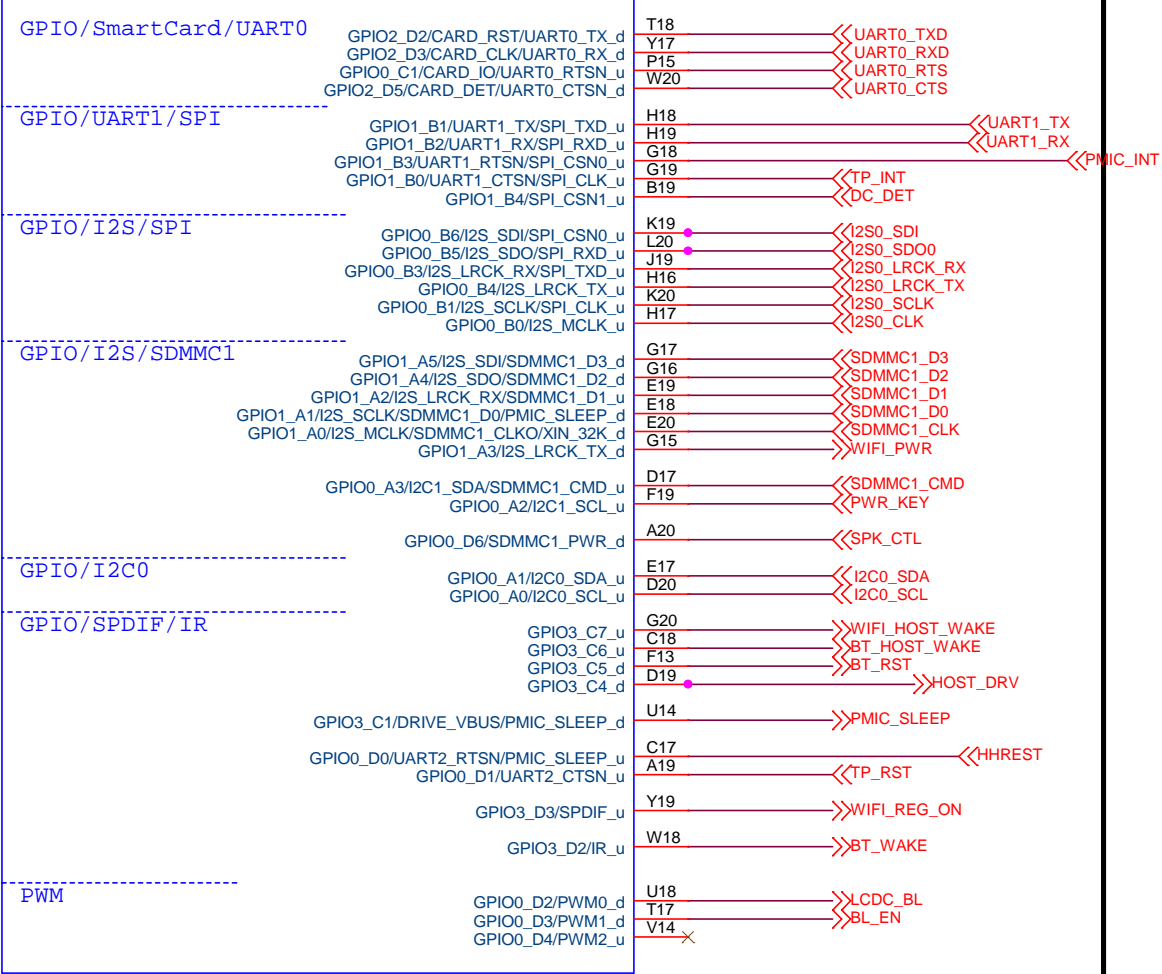
Title
RK3128 DISPLAYSize Document Number
A1Rev
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RK3128-I

U1000I
RK3128



SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.

Title
RK3128 GPIO

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A1

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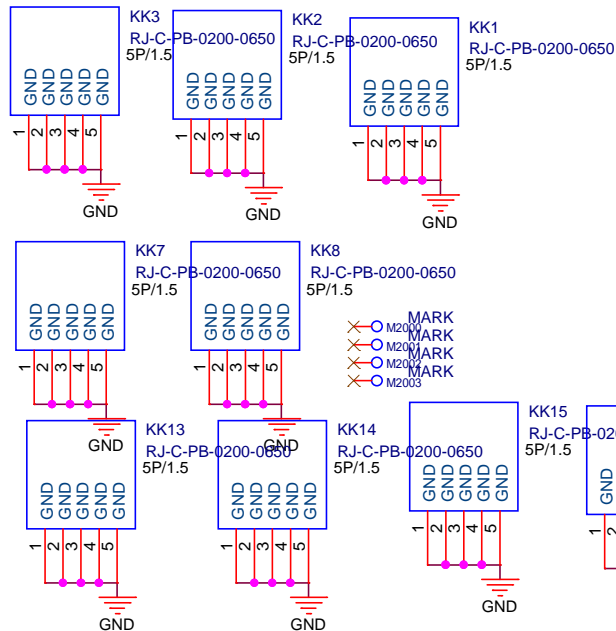
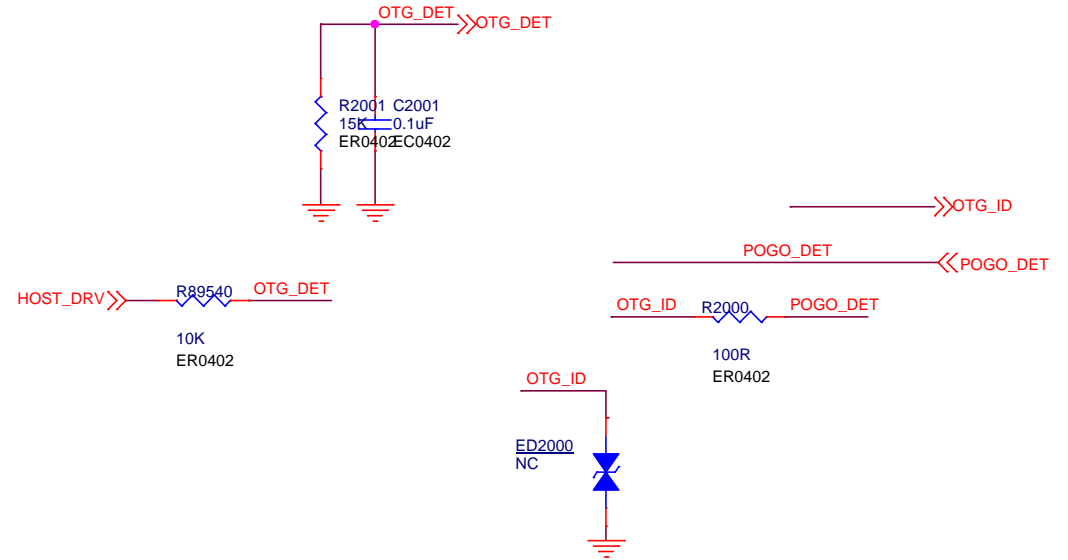
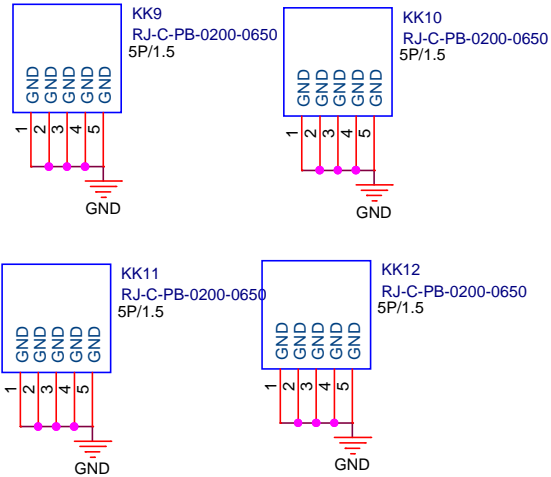
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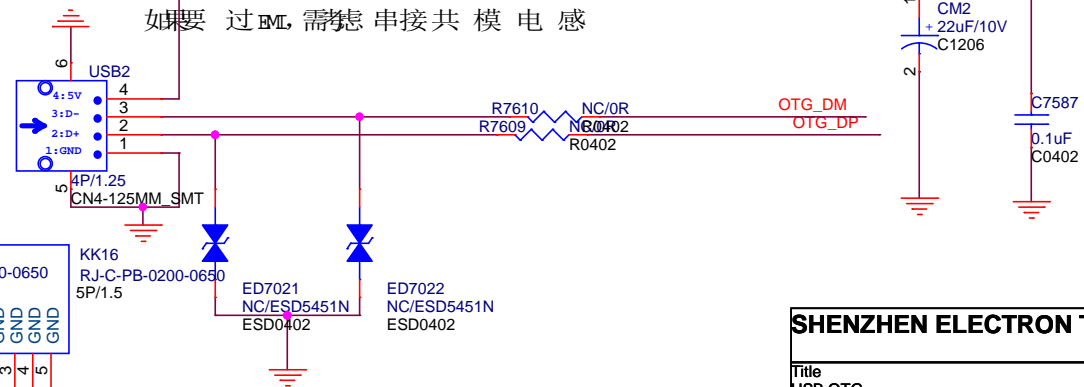
USB OTG CONNECTOR

USB_DET

OTG_DM
OTG_DP



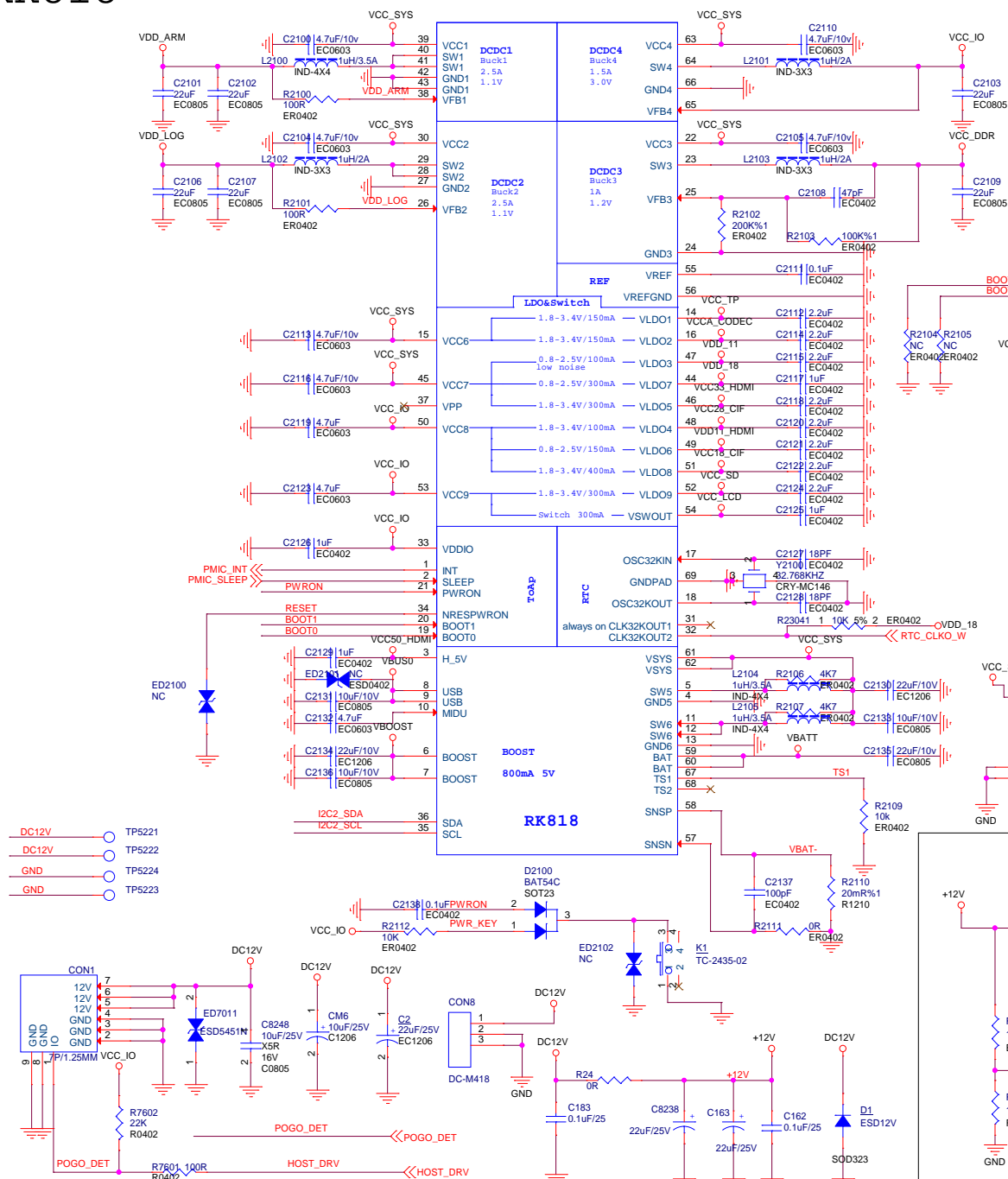
如果要过ML, 需串接共模电感



SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.

Title USB OTG		
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RK818



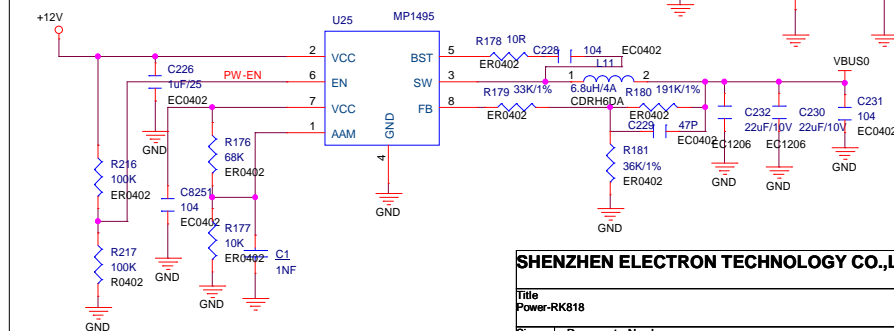
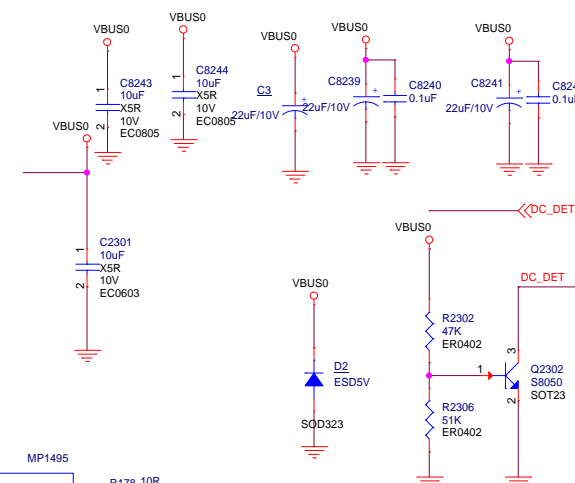
PCB POWER WIRE WIDTH INDICATE



above 80 miles
above 50 miles
above 30 miles
above 12 miles
Under needs

PowerName	PMU Channel	TIME (ms)	default ON/OFF	default voltage	sleep ON/OFF
VDD_ARM	DCDC1	soft1:3	ON	1.1V	ON
VDD_LDO	DCDC2	soft1:3	ON	1.1V	ON
VCC1_VDD	DCDC1	soft1:1	ON	1.0V	ON
VCC_DDR	DCDC3	soft1:5	ON	DDR3 1.5V DDR3L 1.35V	ON
VCCA_TPE	VLDO1	X	OFF	LP0R0R 1.2V	OFF
VCCA_C0DC0R	VLDO2	X	OFF	3.0V	OFF
VDD_11	VLDO3	soft1:1	ON	2.1V	ON
VCC28_CIF	VLDO4	soft1:2	ON	1.5V	OFF
VCC18_MUFG	VLDO5	soft1:1	ON	1.0V	ON
VDD_12	VLDO6	X	OFF	1.2V	OFF
VLDO7	soft1:2	ON	1.8V	OFF	OFF
VCC18_CIF	VLDO8	X	OFF	1.8V	OFF
VCC18_VDD	soft1:5	ON	1.8V	OFF	OFF
VCC_LCP	soft1:1	ON	3.0V	OFF	OFF

Only the USB Port
VCC50_USB cnnected to the VCC_RK819INOUT



SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.

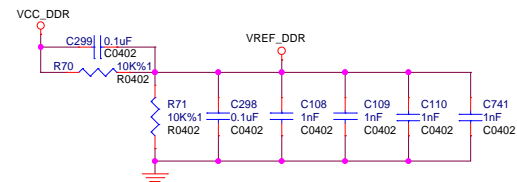
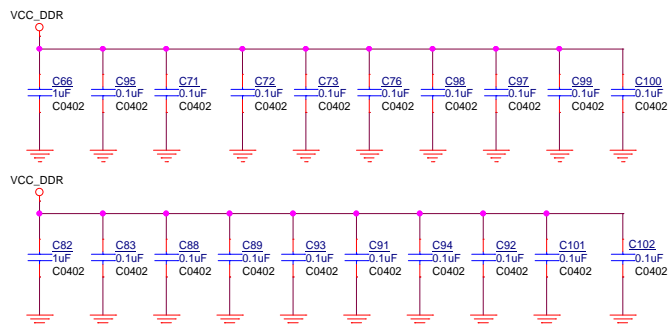
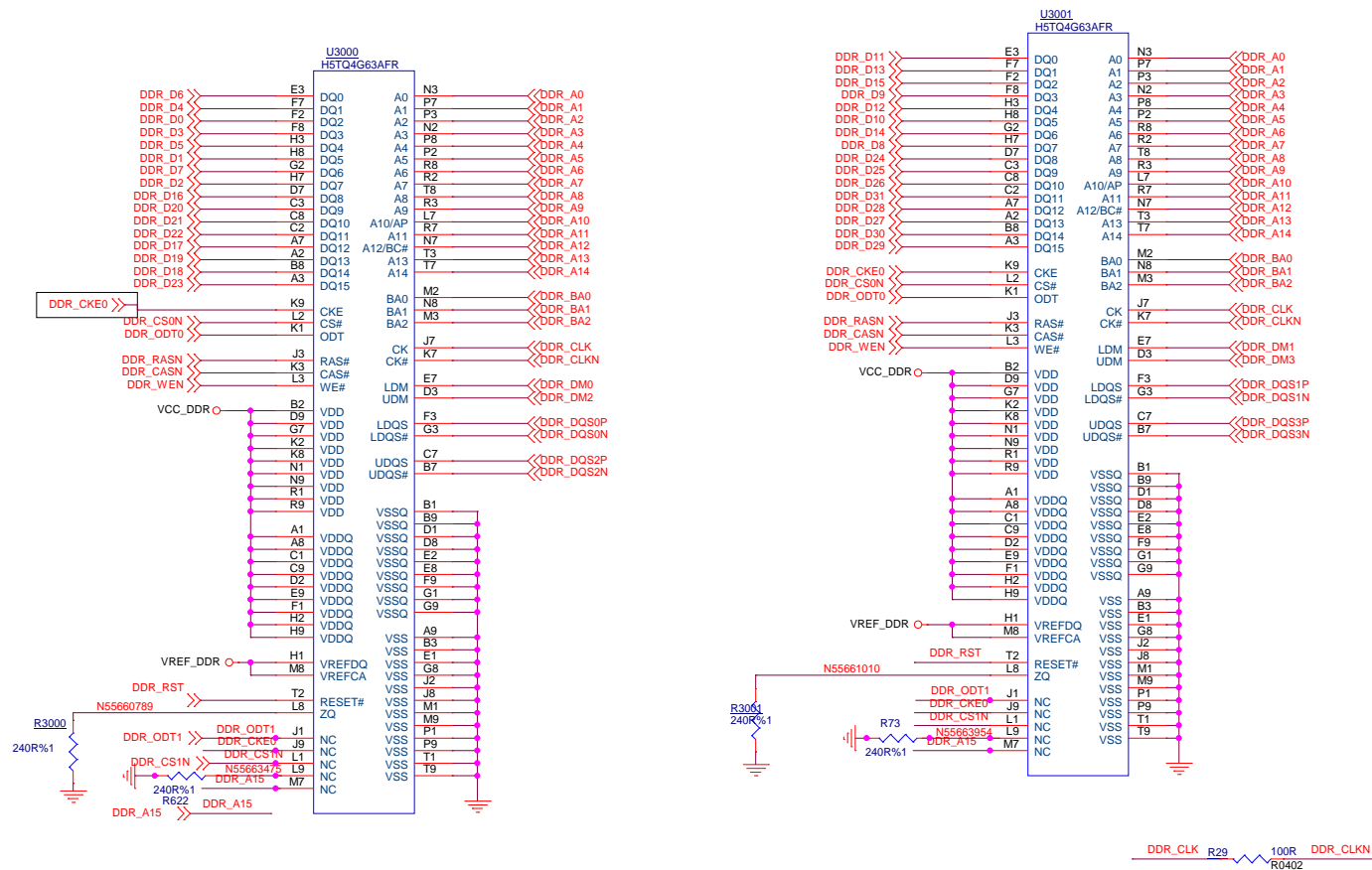
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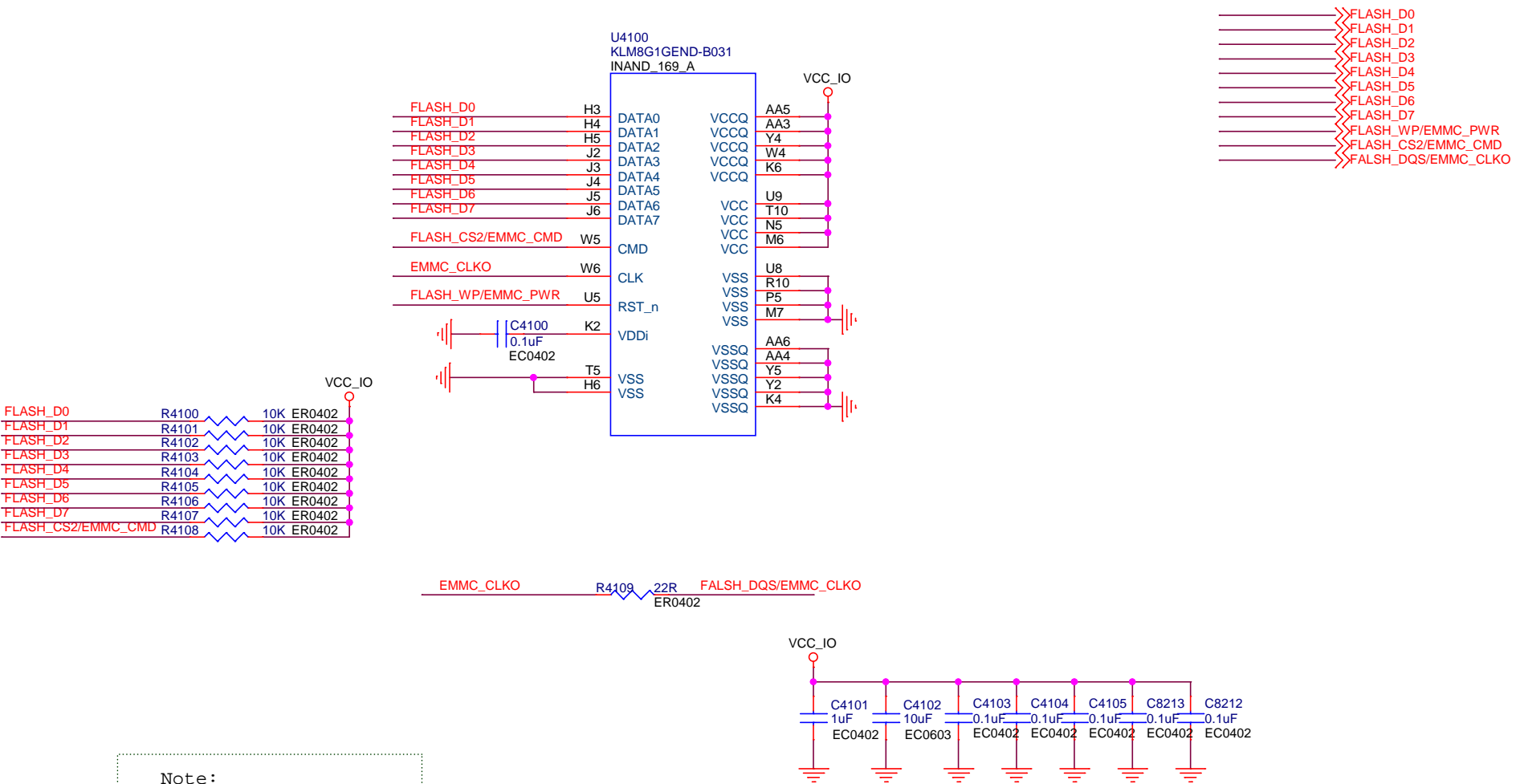
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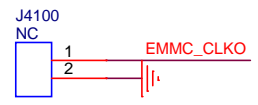
Re	
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eMMC FLASH

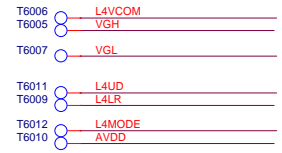
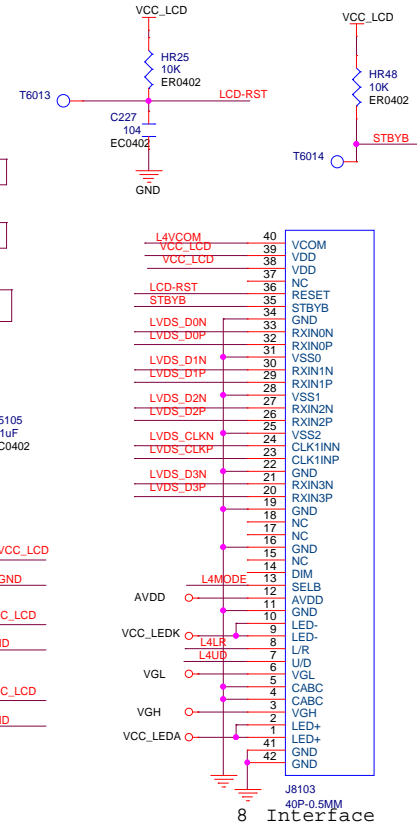
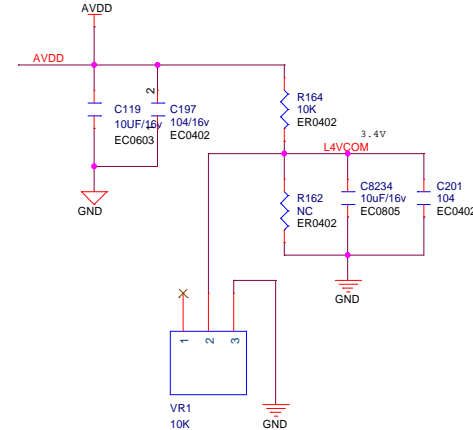
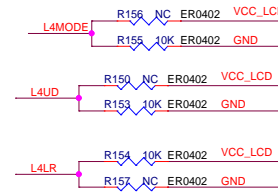
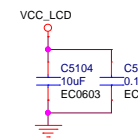
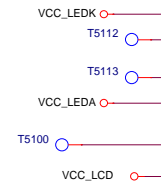
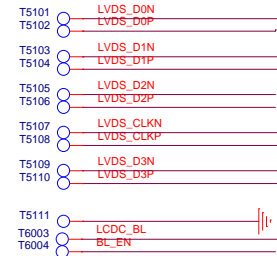
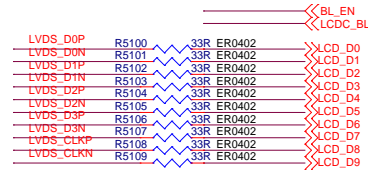
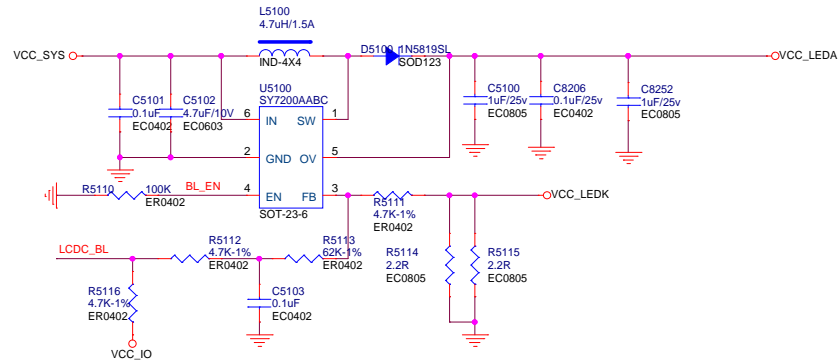


Note:
NC or reserve a PAD.



SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.			
Title			
Memory-eMMC Flash(option)			
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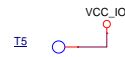
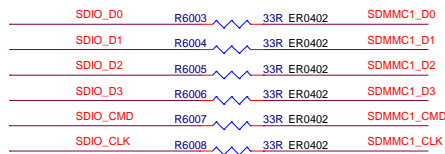
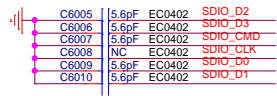
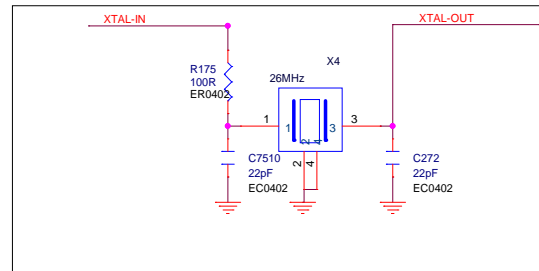
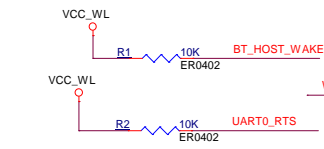
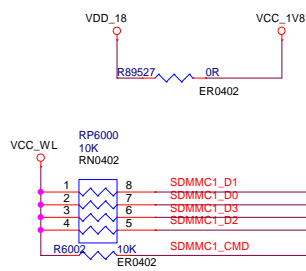
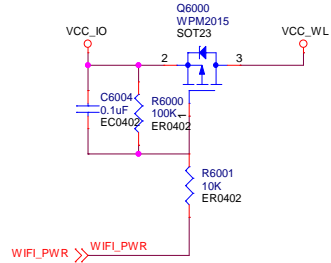
LVDS Panel



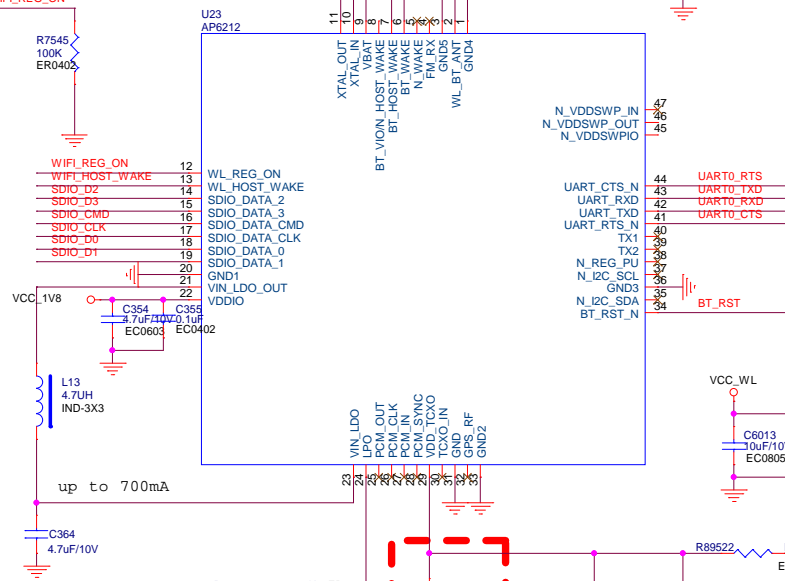
WIFI/WIFI

Note:
F23BDSM23-W2 VCC_WL=3.2~3.6V
F23BDSM25-W1 VCC_WL=3.5~5.0V

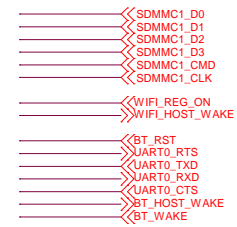
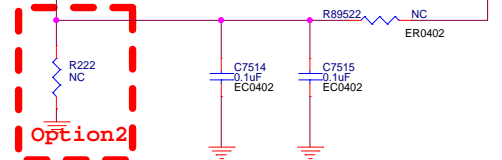
Note: VBAT 电压范围 3.2V~3.6V ,
电流至少 500mA



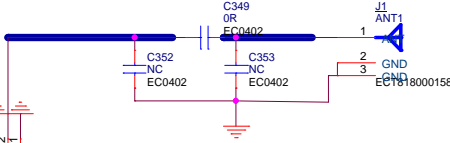
Option1



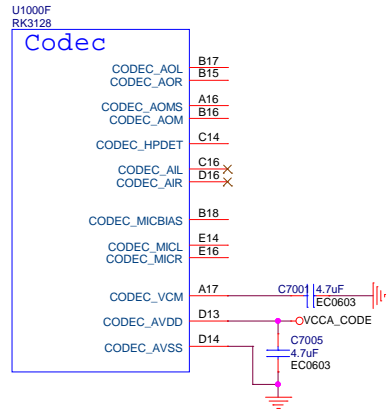
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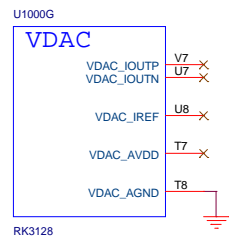
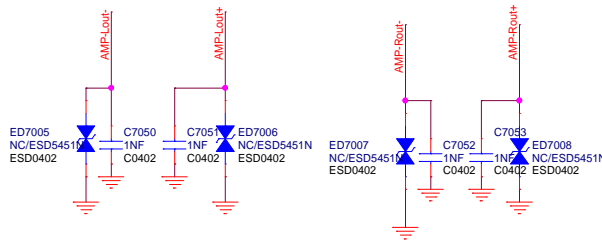
50 Ohm RF trace



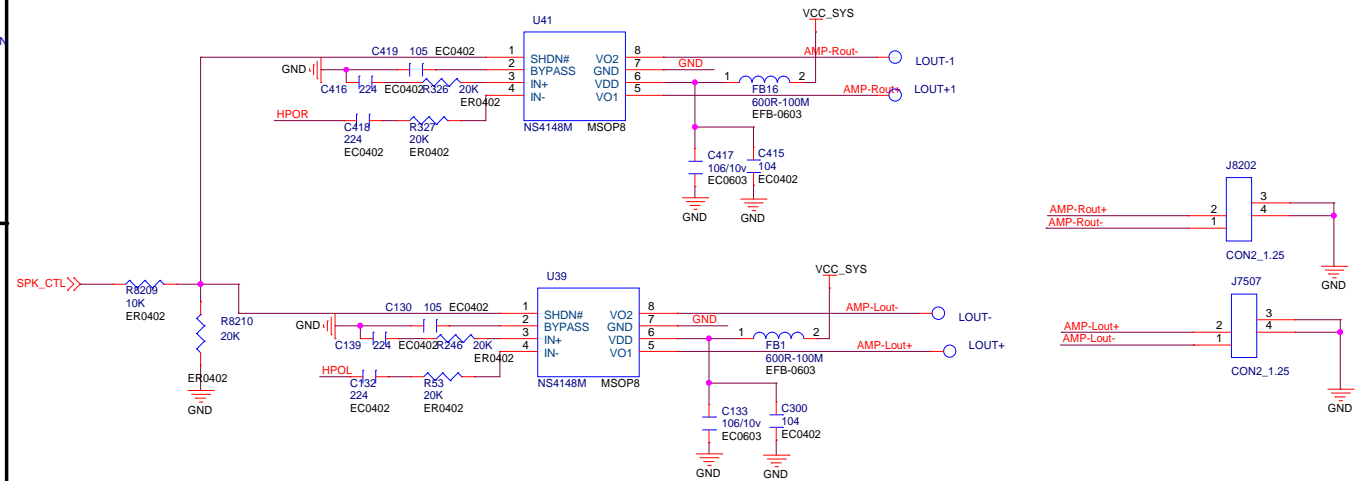
RK3128-F



ESD



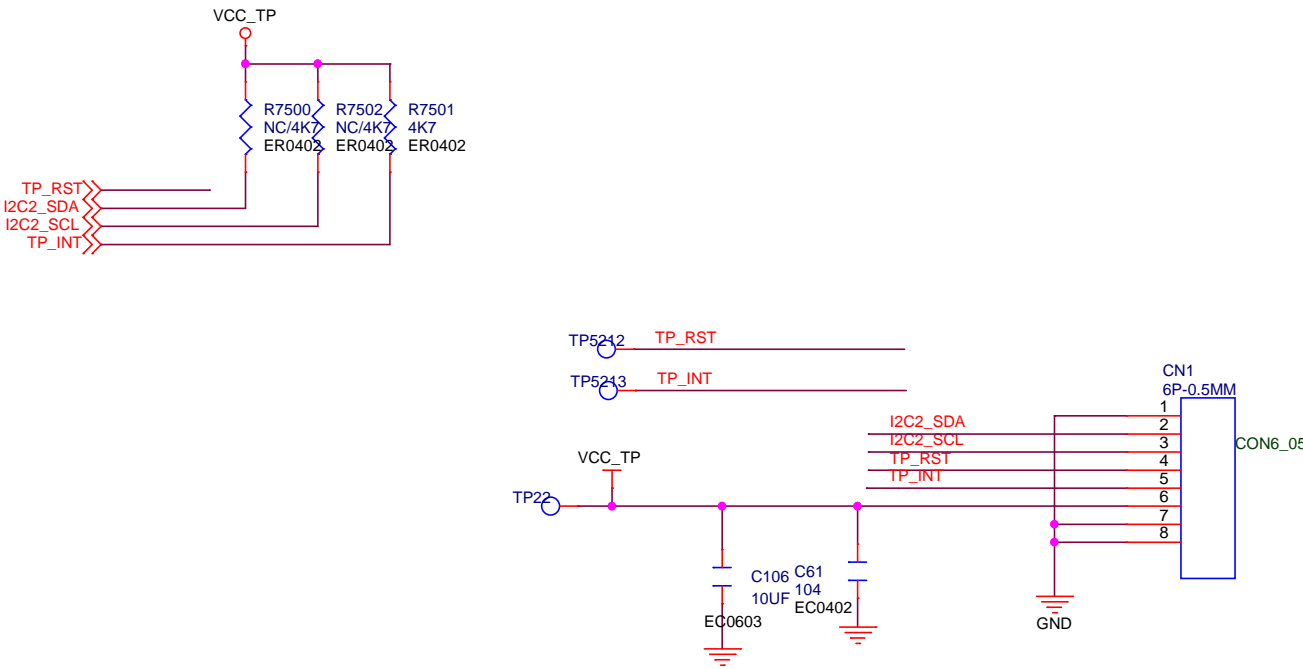
SPEAKER DRIVER



SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.

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AUDIO			
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TOUCH CONNECTOR



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