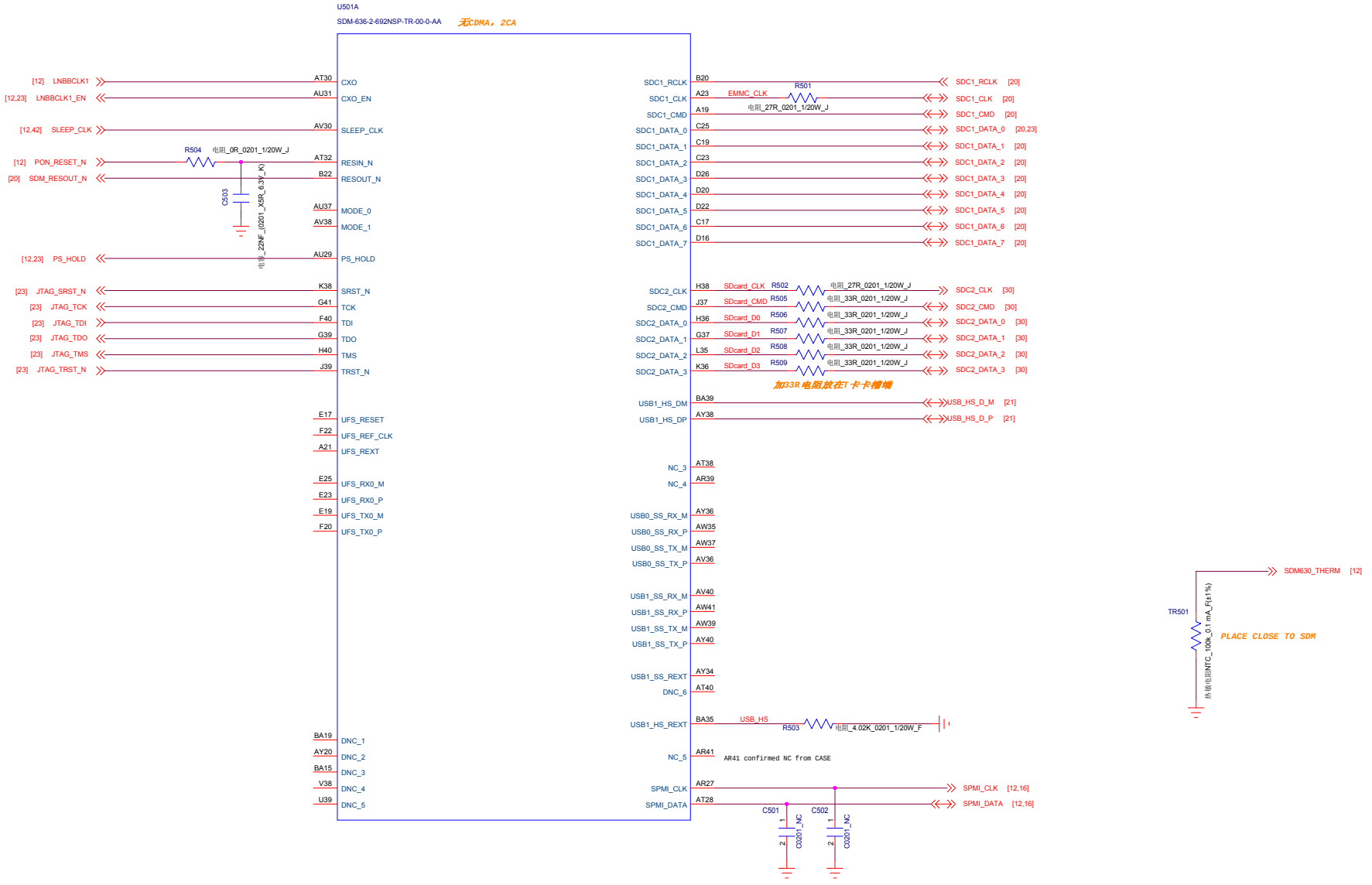
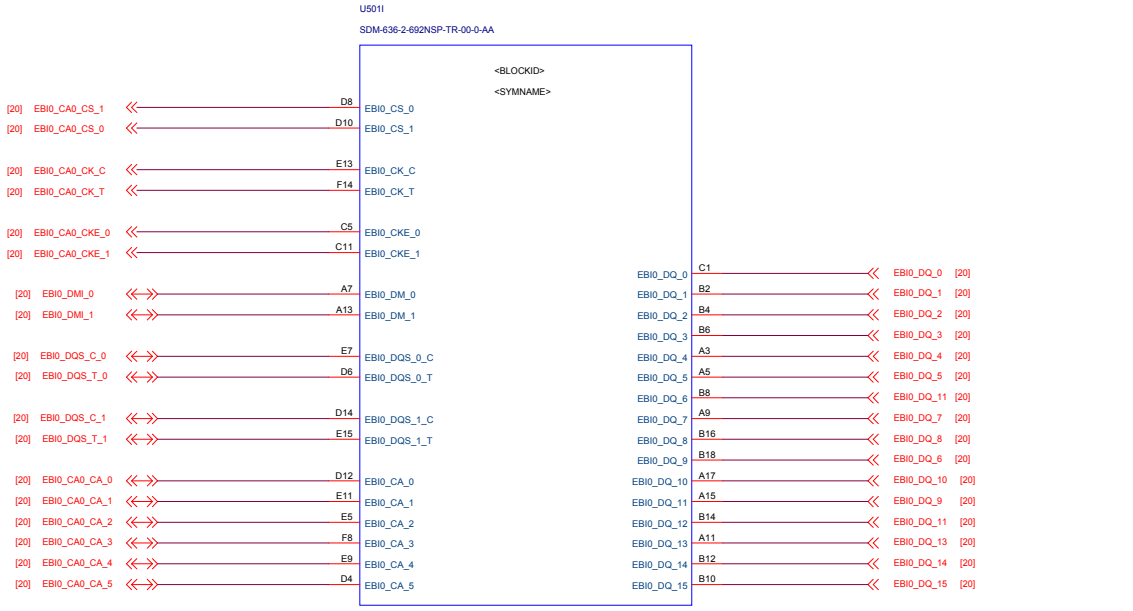
Block Diagram

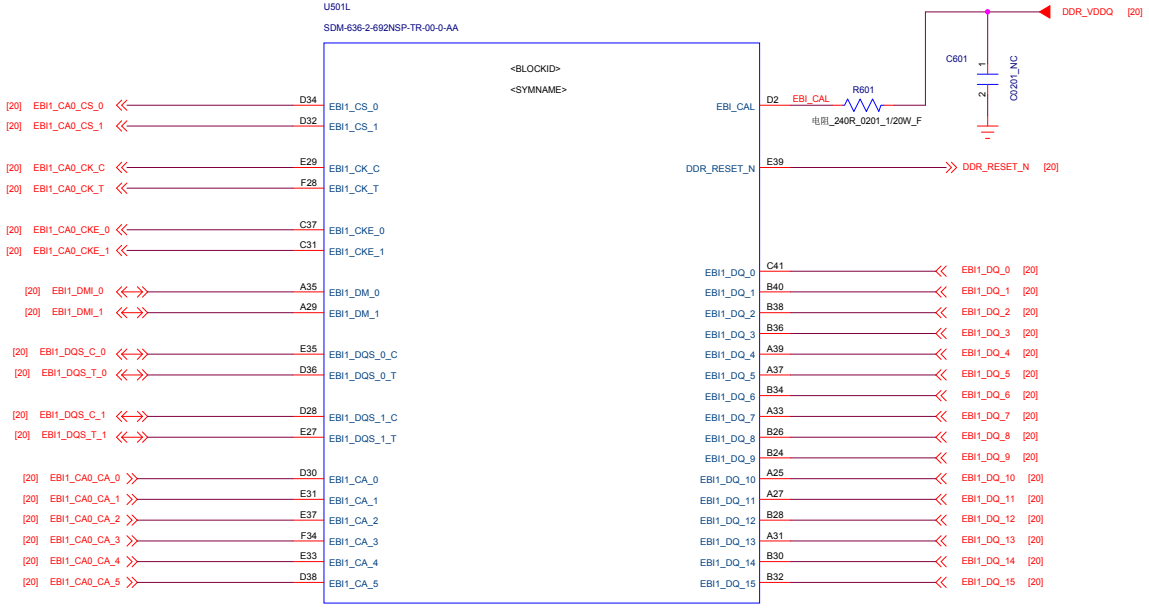


Company: Huaqin		
Block Title	SDM630 Control/UFS/SDC1/SDC2	
Project	Teller	Rev 1.0
Date: Thursday, September 06, 2018	Sheet 5 of 46	

SDM630 LPDDR4

REF 601-699

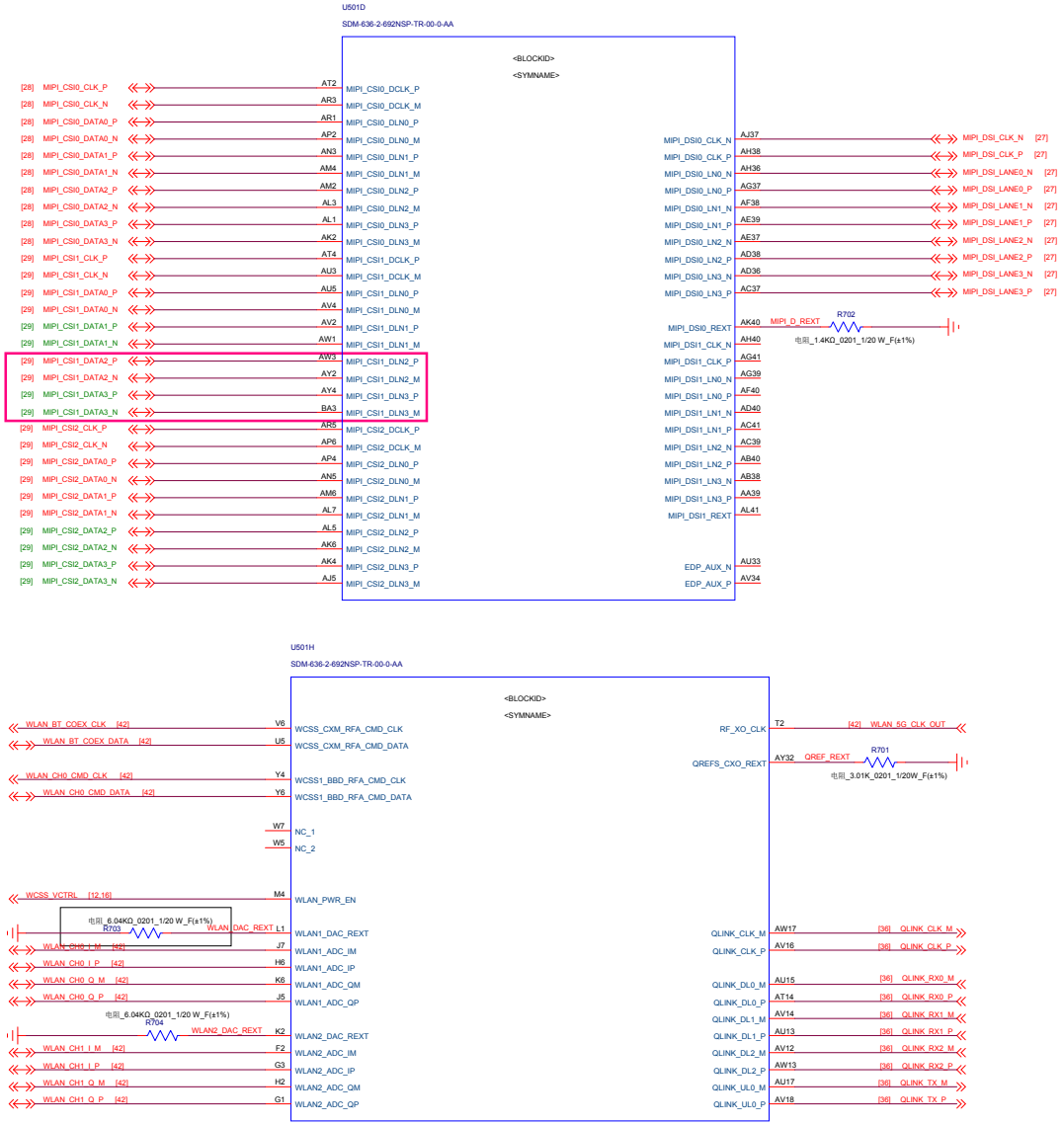




Company: Huaqin			
Block Title	SDM630 LPDDR4		
Project	Teller	Rev	1.0
Date: Thursday, September 06, 2018	Sheet 6 of 46		

SDM630 CSI/DSI

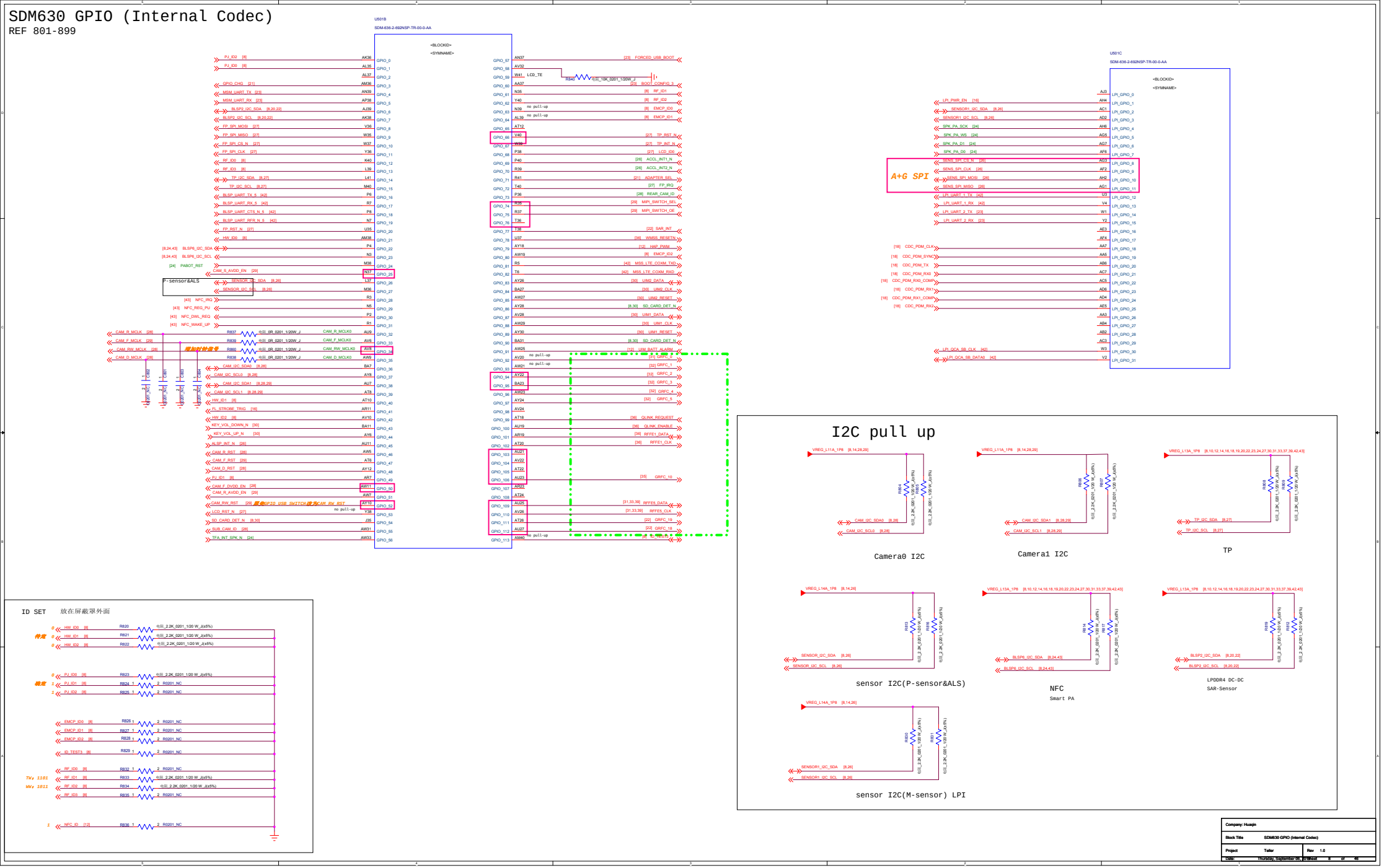
REF 701-799



Company: Huaqin			
Block Title	SDM630 CSI/DSI		
Project	Teller	Rev	1.0
Date:	Thursday, August 30, 2018	Sheet	7 of 46

SDM630 GPIO (Internal Codec)

REF 801-899

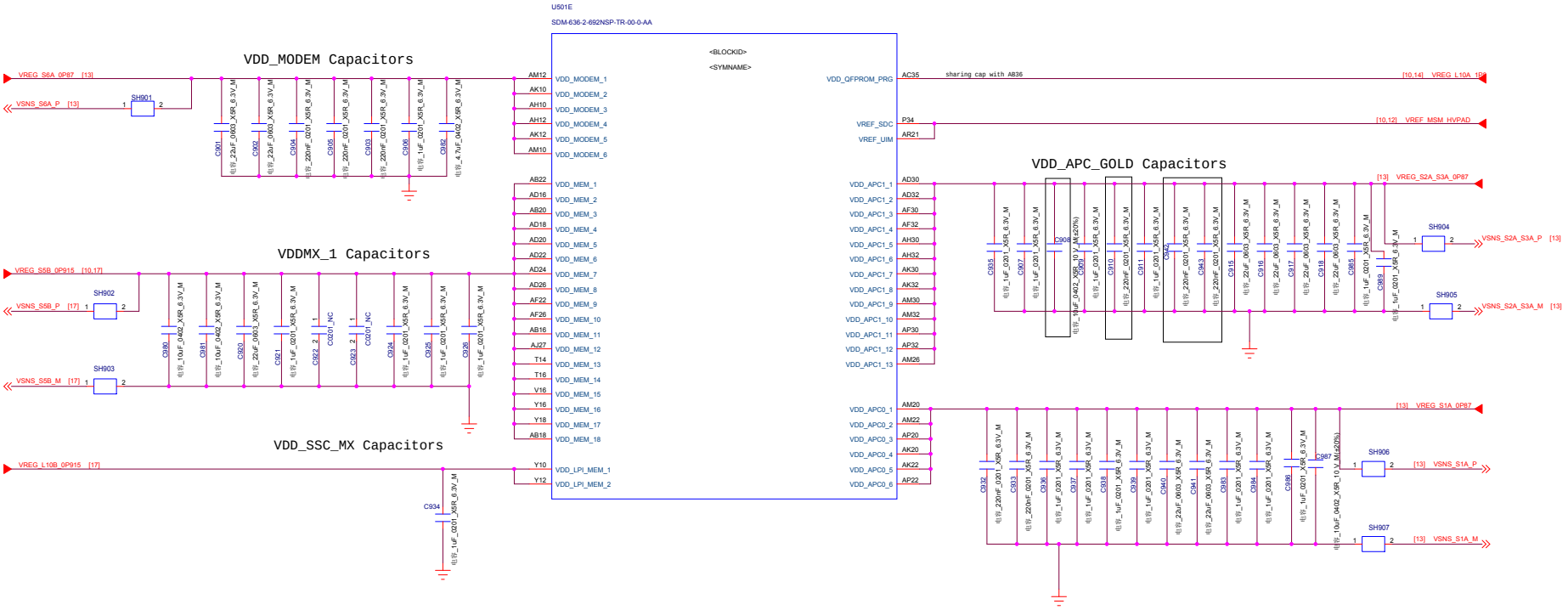


I2C pull up

Company: Huaqin	
Block Title: SDM630 GPIO (Internal Codec)	
Project: Teller	Rev: 1.0
Date: Thursday, September 06, 2018	Sheet 8 of 46

SDM630 Power (Core)

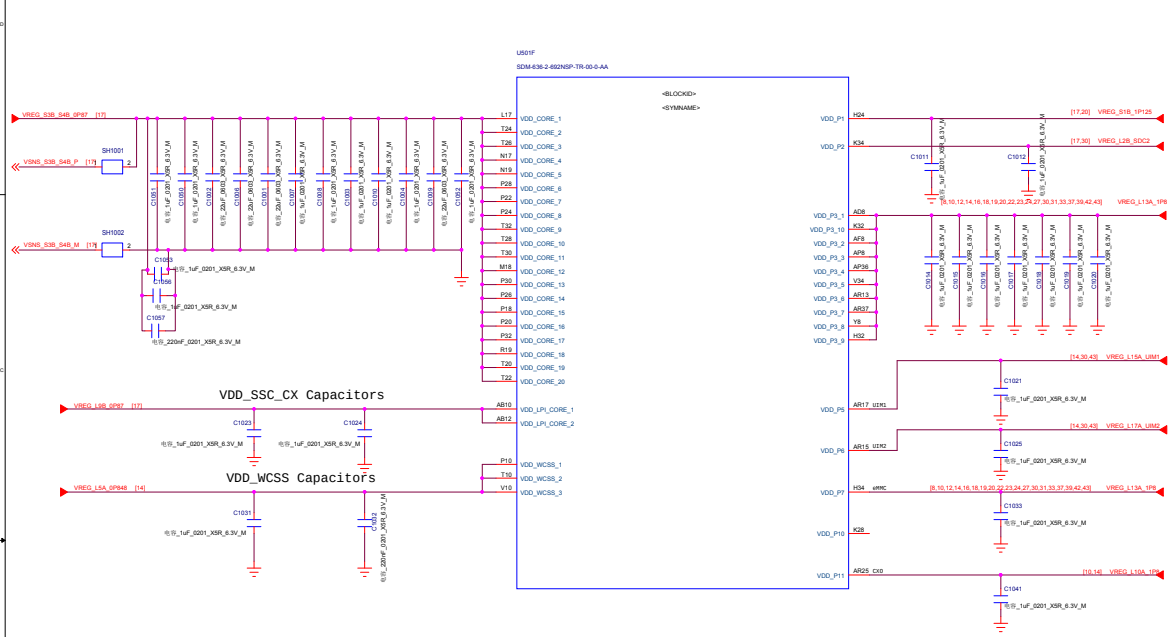
REF 901-999



Company: Huaqin			
Block Title	SDM630 Power (Core)		
Project	Teller	Rev	1.0
Date: Thursday, September 06, 2018	Sheet 9 of 46		

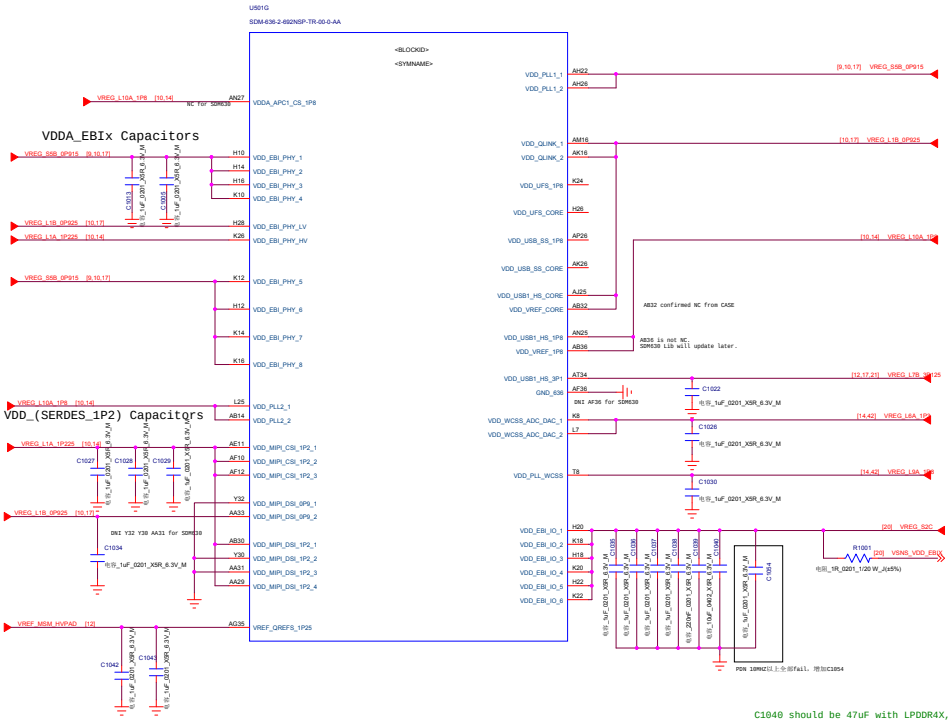
SDM630 Power (Other, LP4X)

REF 1001-1099



VDD_SSC_CX Capacitors

VDD_WCSS Capacitors

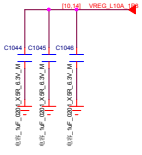


VDDA_EBIx Capacitors

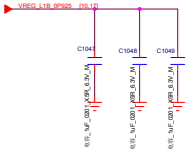
VDD_(SERDES_1P2) Capacitors

C1040 should be 47uF with LPDDR4X,
----->qualcomm

VDD_(1P8) Capacitors



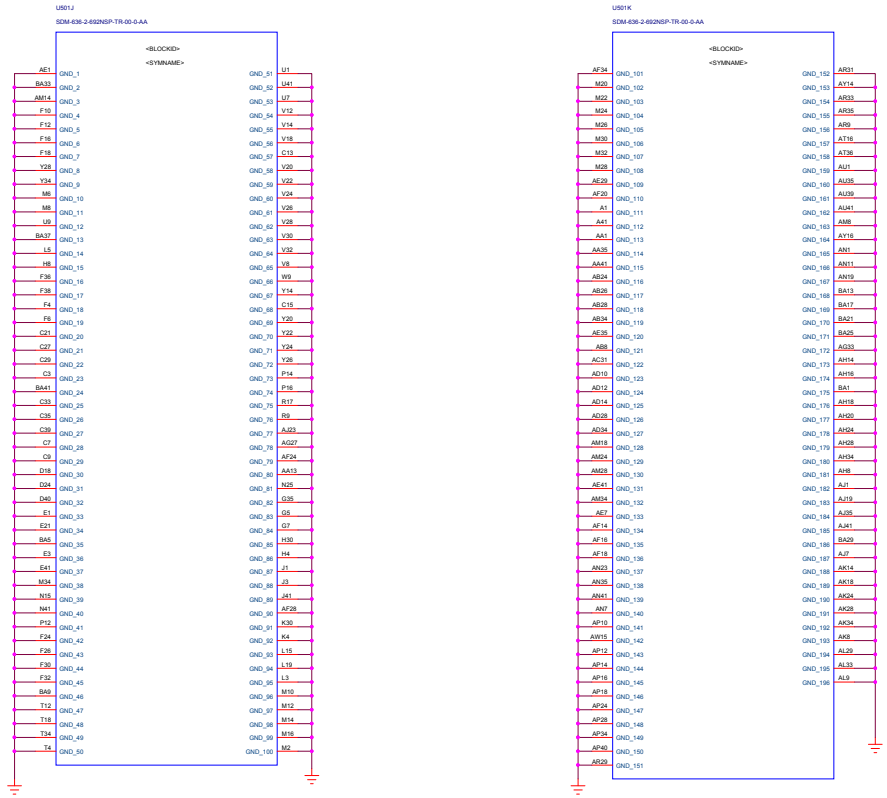
VDD_(SERDES_0P9) Capacitors



Company: Huaqin			
Block Title	SDM630 Power (Other, LP4X)		
Project	Teller	Rev	1.0
Date:	Thursday, September 06, 2018	Sheet	10 of 46

SDM630 Ground

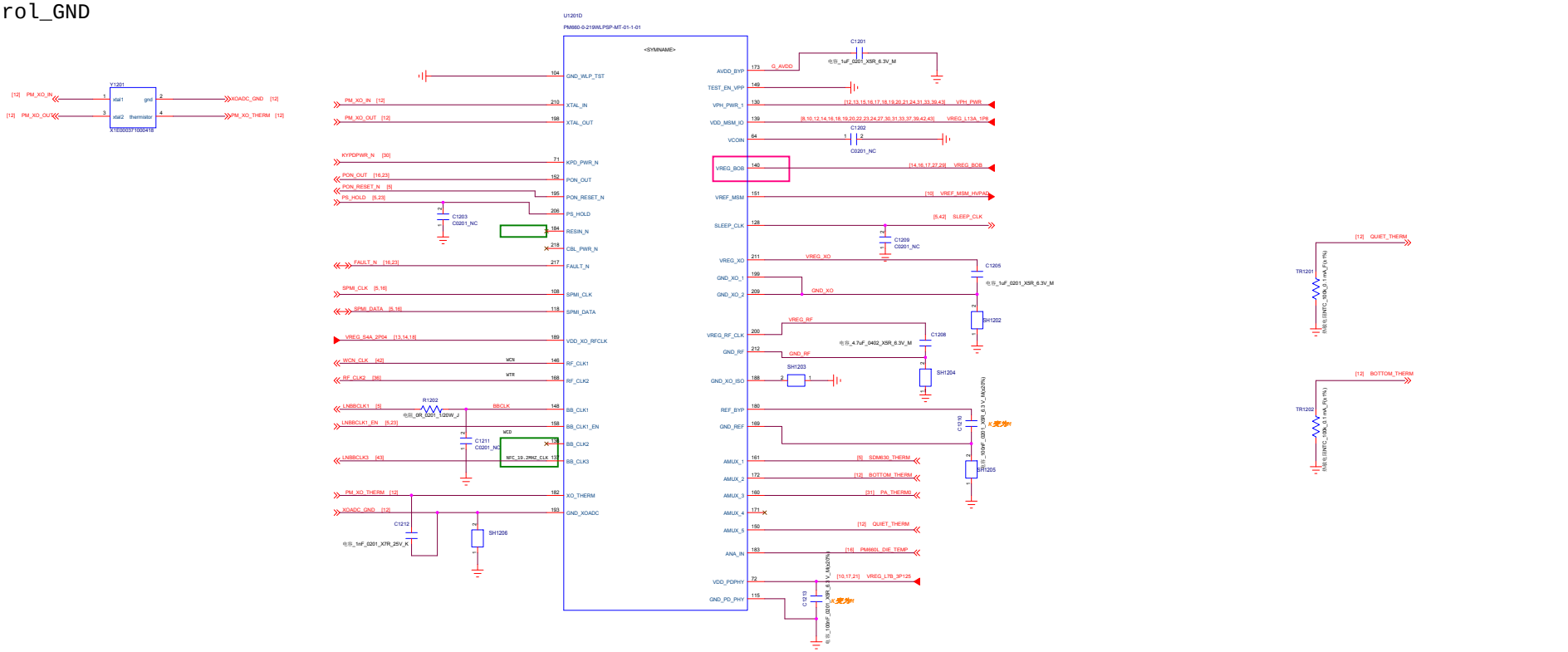
REF 1101-1199

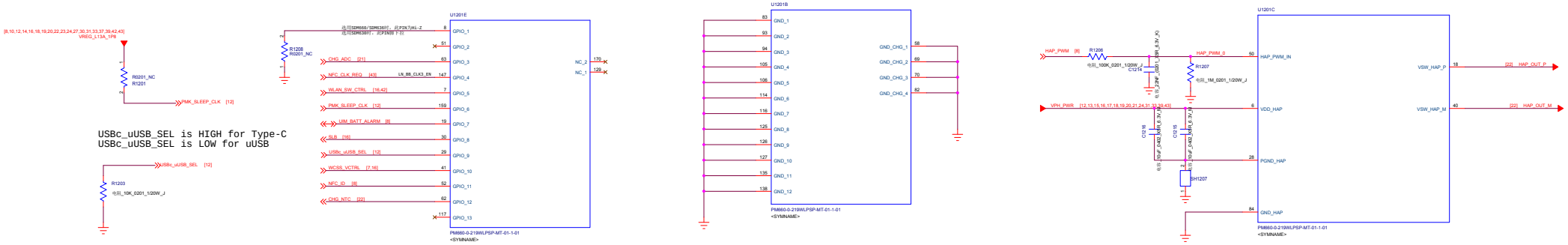


Company: Huaqin			
Block Title	SDM630 Ground		
Project	Teller	Rev	1.0
Date:	Thursday, August 30, 2018	Sheet	11 of 46

PM660 CLKs/Control_GND

REF 1201-1299

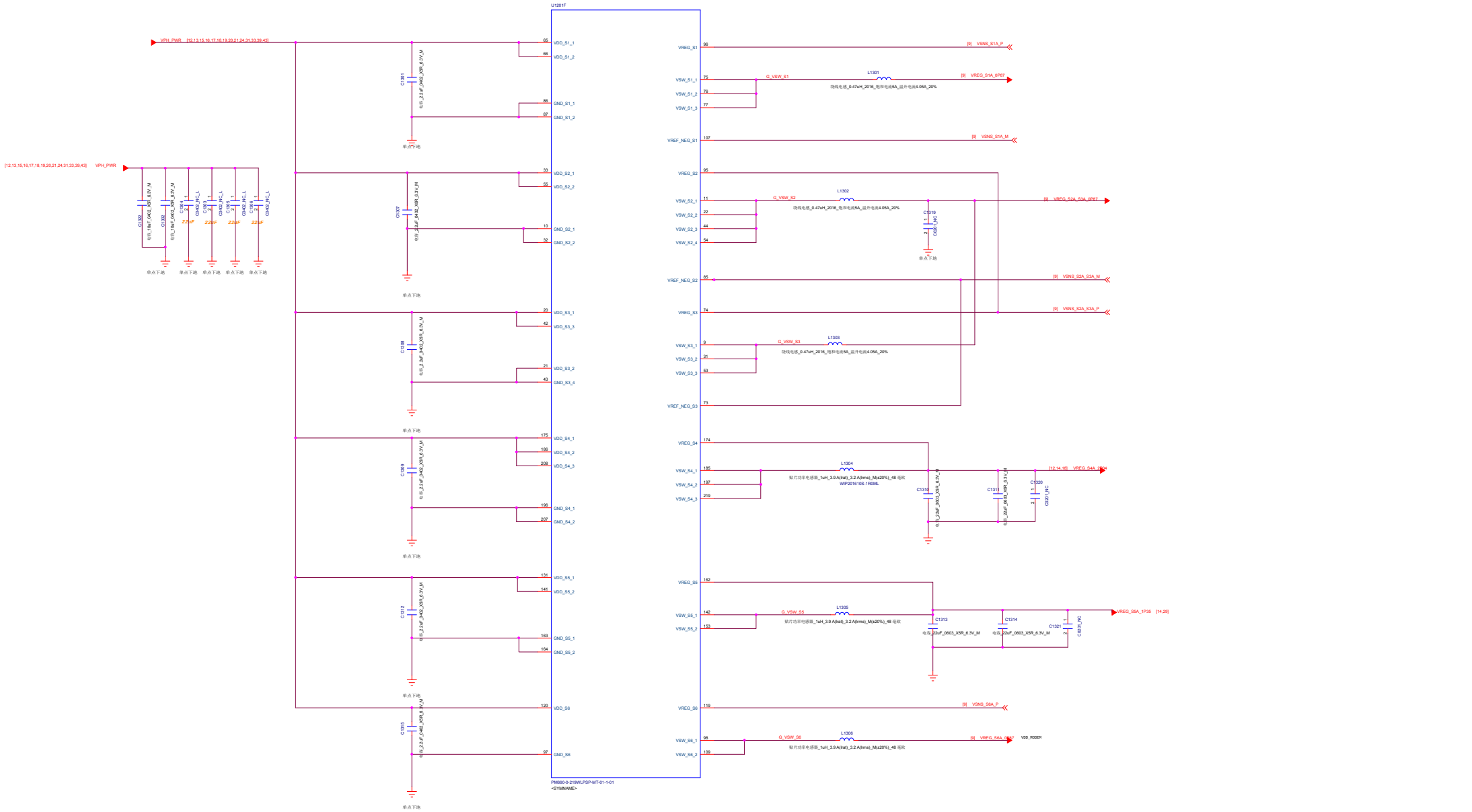




Company: Huaqin			
Block Title	PM660 CLKs/Control_GND		
Project	Teller	Rev	1.0
Date:	Thursday, September 06, 2018	Sheet	12 of 46

PM660 Buck Converter

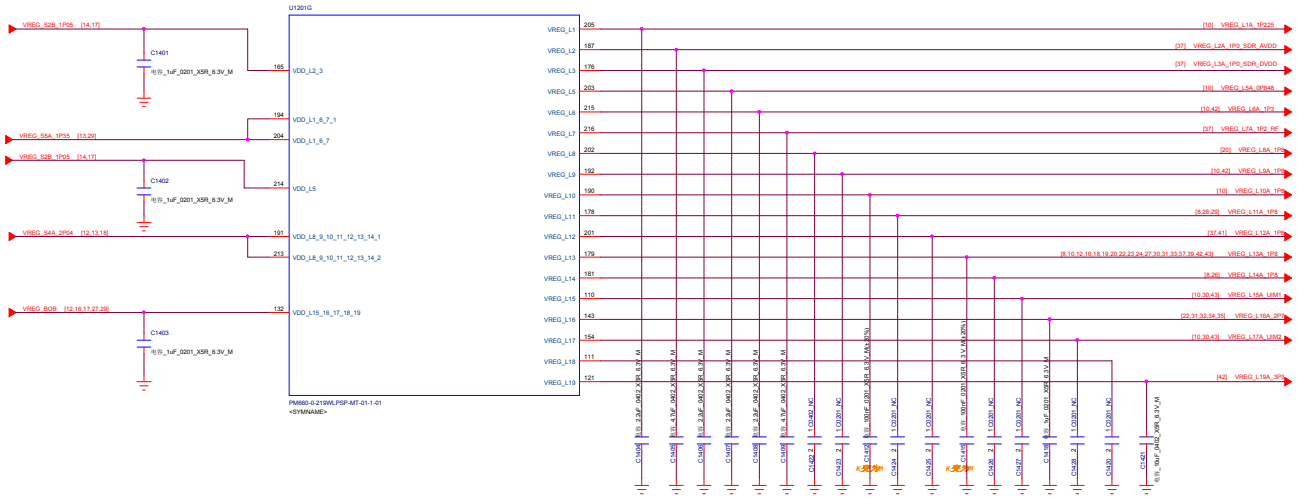
REF 1301-1399



Company: Huaqin			
Block Title	PM660 Buck Converter		
Project	Teller	Rev	1.0
Date:	Thursday, September 08, 2016	Sheet	13 of 46

PM660 LDO Circuits

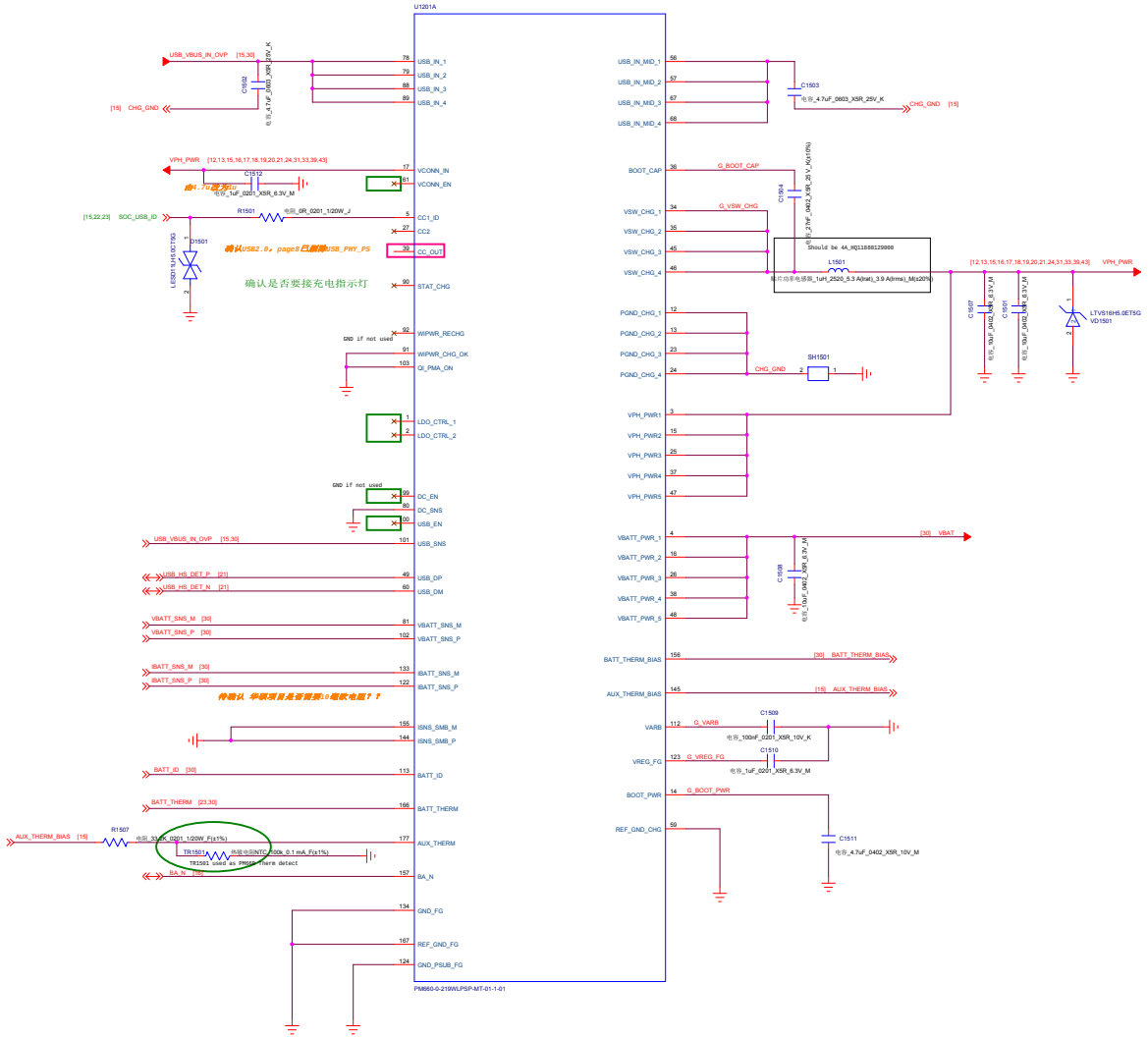
REF 1401-1499



Company: Huaqin			
Block Title	PM660 LDO Circuits		
Project	Teller	Rev	1.0
Date:	Thursday, September 06, 2018	Sheet	14 of 46

PM660 Charger_FG

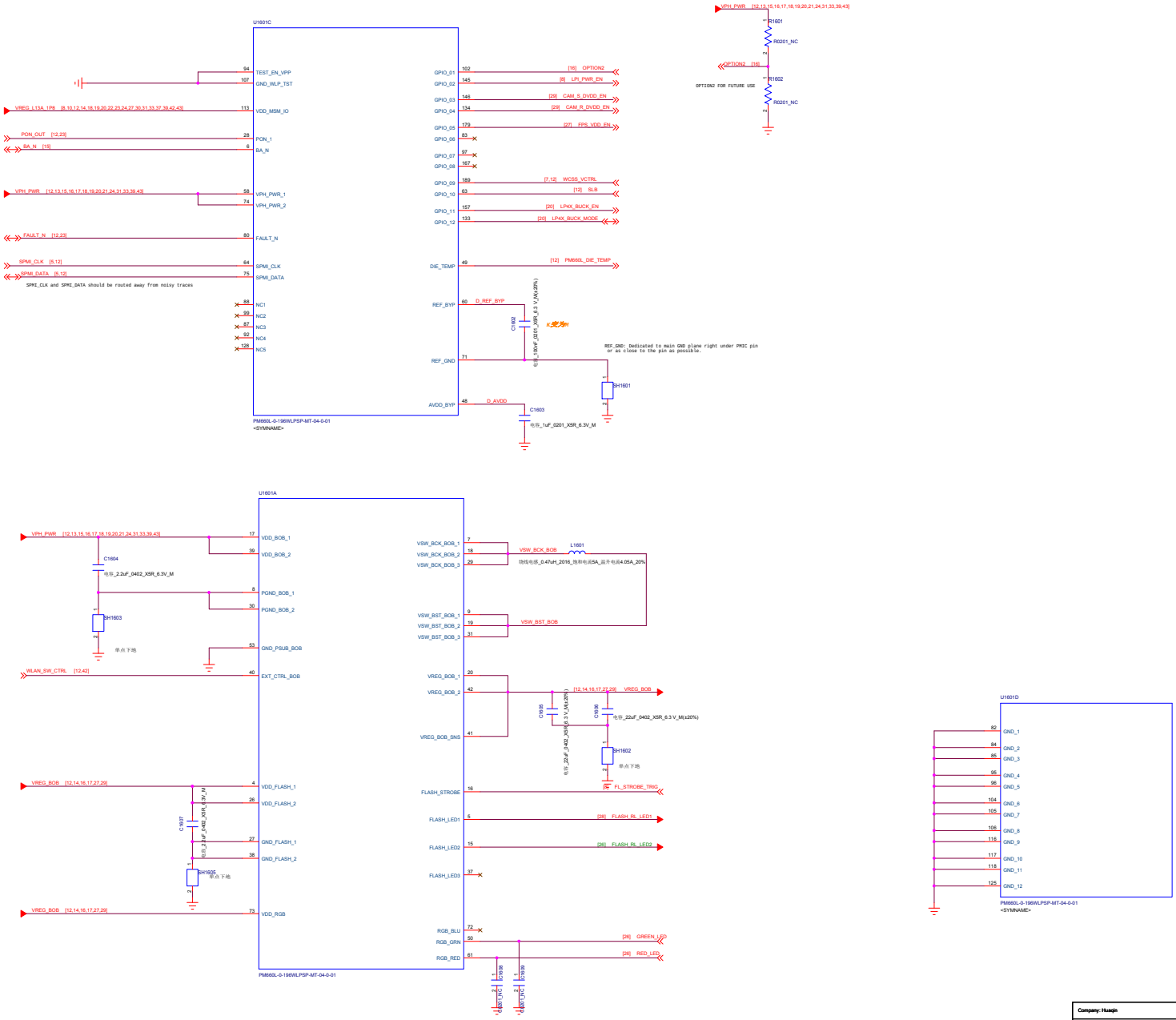
REF 1501-1599



Company: Huaqin			
Block Title	PM660 Charger_FG		
Project	Teller	Rev	1.0
Date:	Thursday, September 06, 2018	Sheet	15 of 46

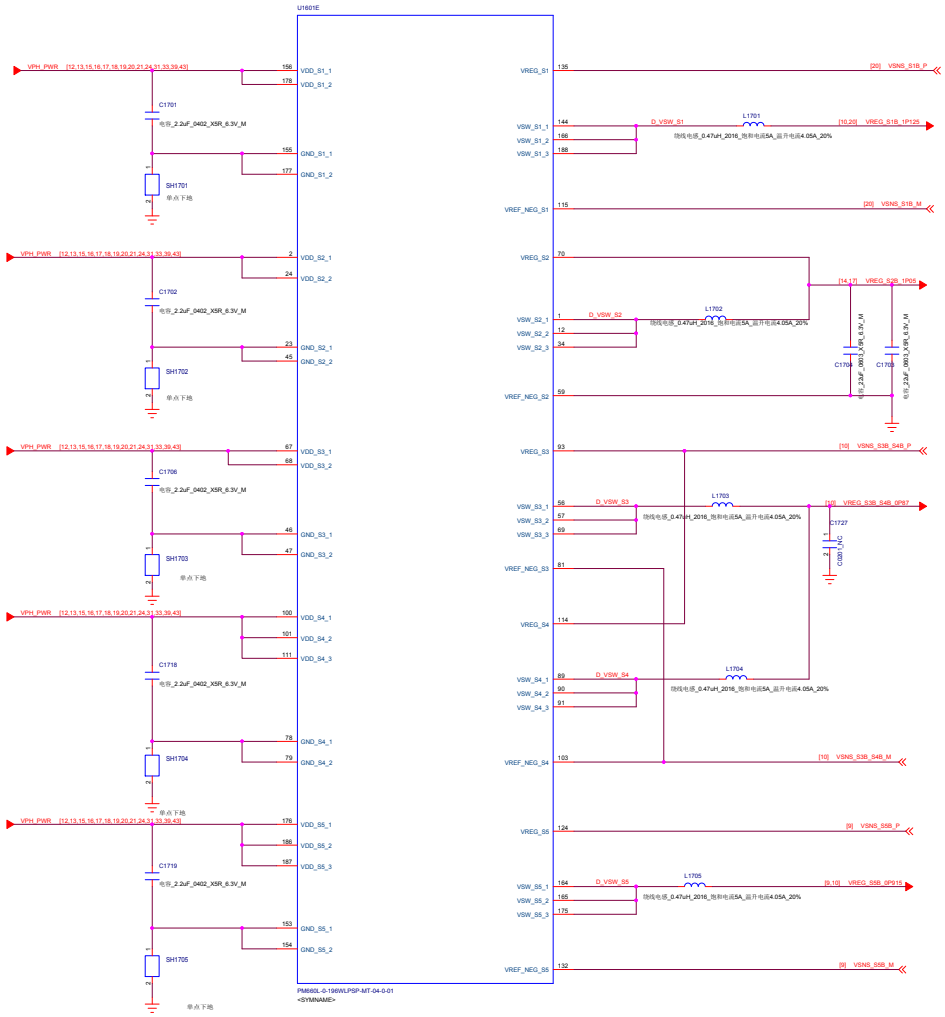
PM660L Control and Bob_Flash

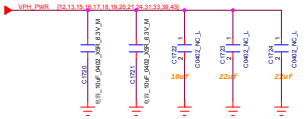
REF 1601-1699

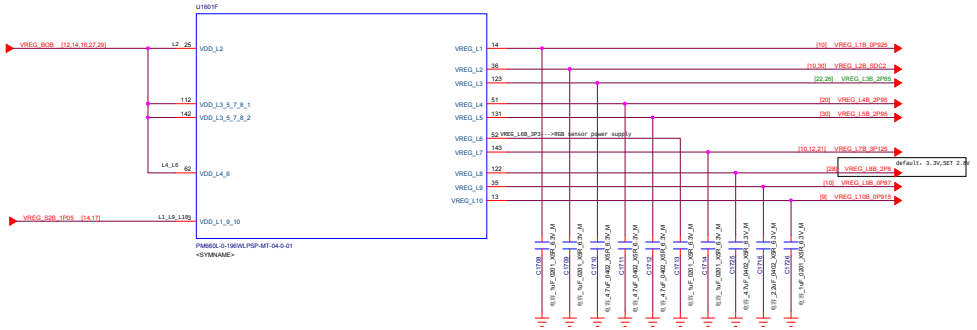


PM660L Buck and LDO

REF 1701-1799



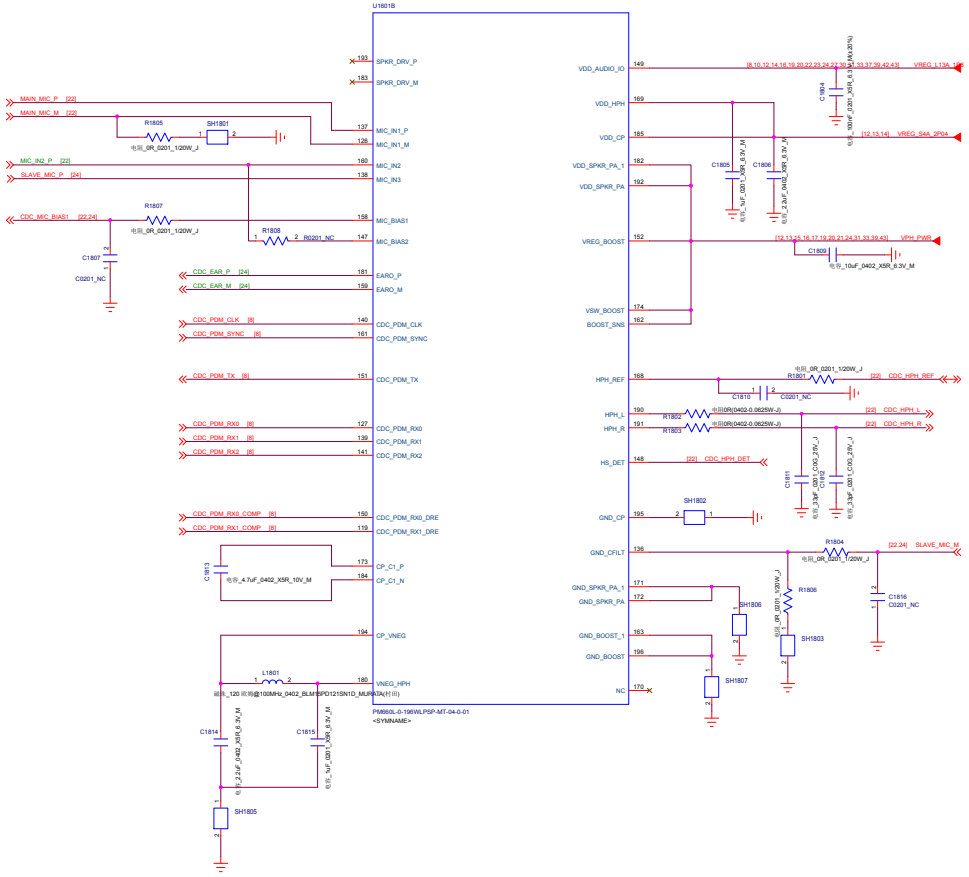




Company: Huaqin			
Block Title	PM660L Buck and LDO		
Project	Teller	Rev	1.0
Date:	Thursday, September 05, 2019	Sheet	17 of 46

PM660L CODEC

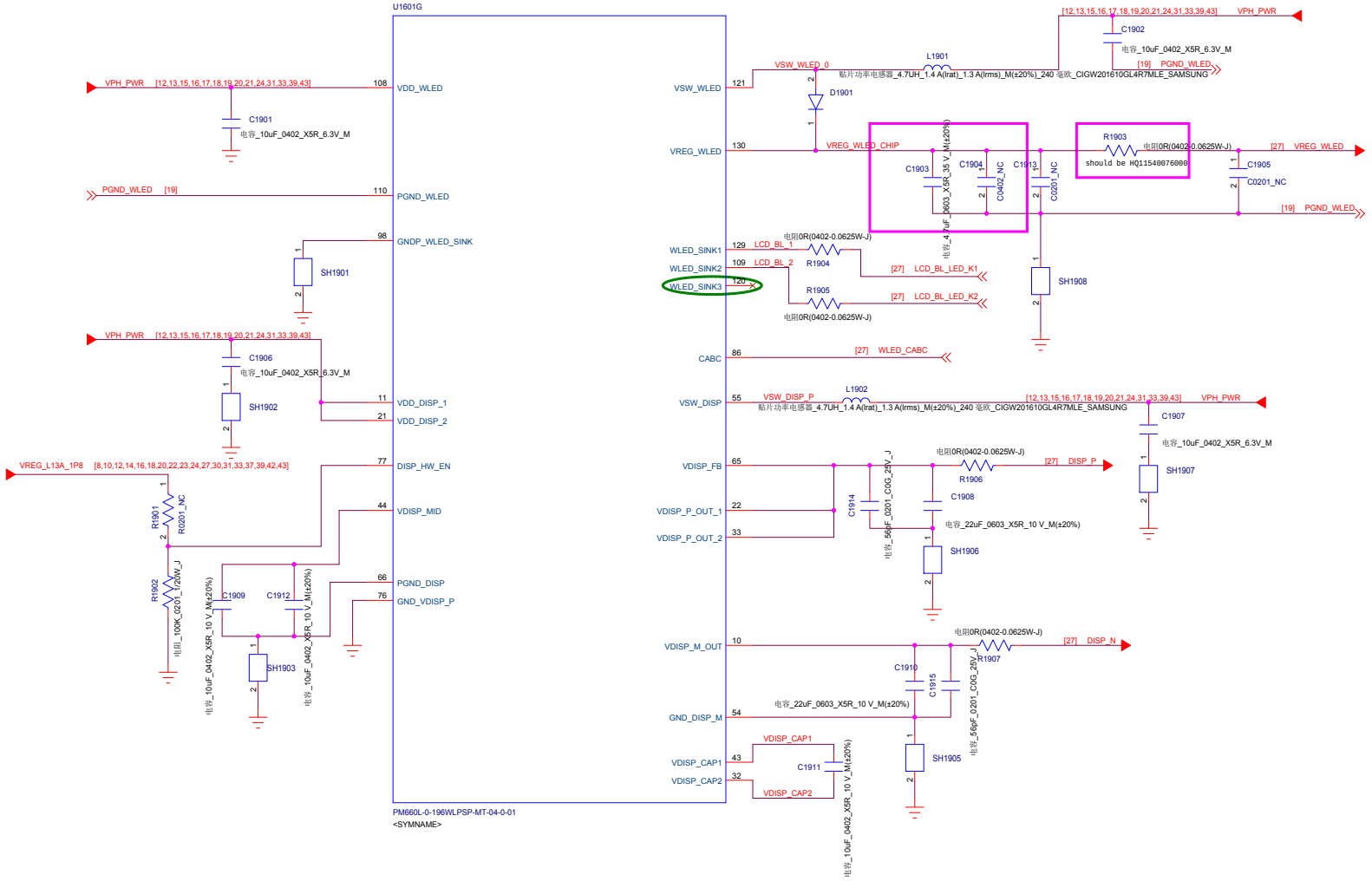
REF 1801-1899



Company: Huaqin			
Block Title	PM660L CODEC		
Project	Teller	Rev	1.0
Date:	Thursday, September 08, 2016	Sheet	18 of 46

PM660L Display

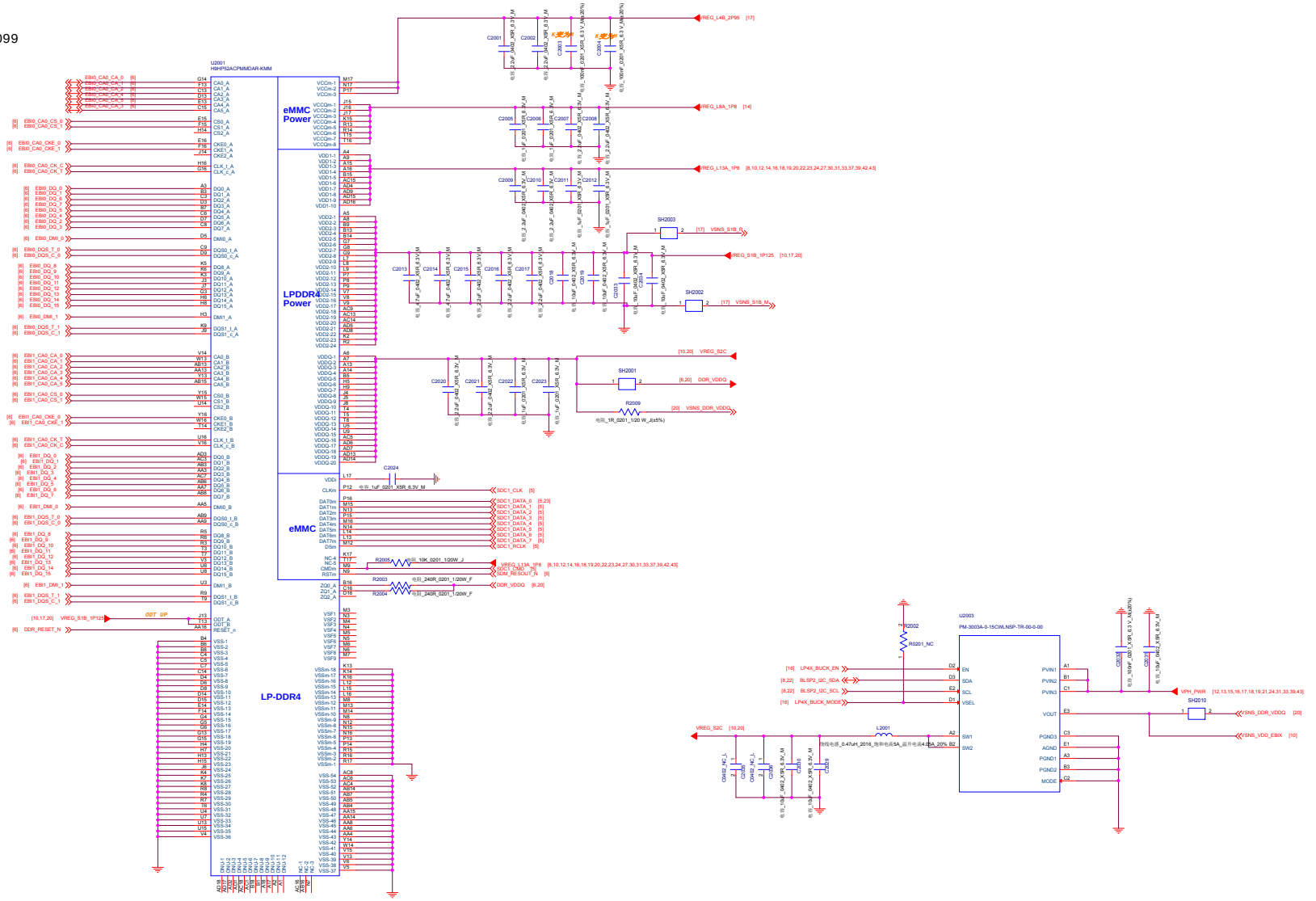
REF 1901-1999



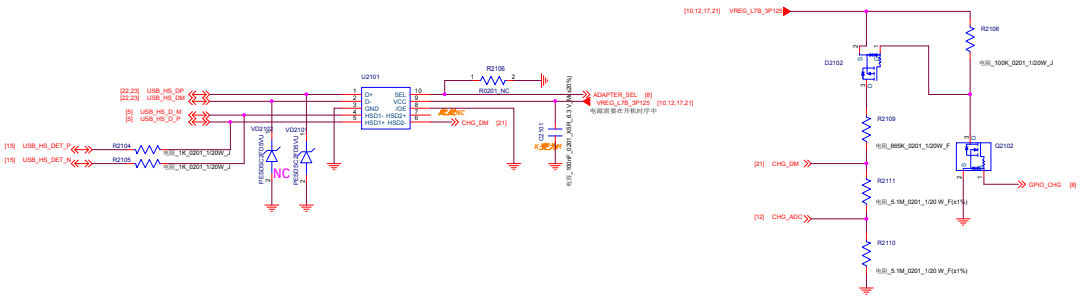
Company: Huaqin			
Block Title	PM660L Display		
Project	Teller	Rev	1.0
Date:	Thursday, September 06, 2018	Sheet	19 of 46

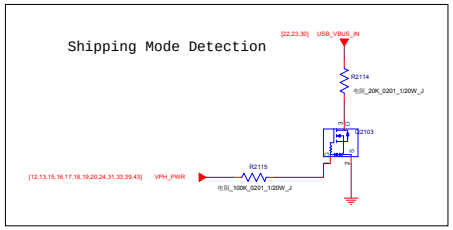
eMCP

REF 2001-2099



Company: Huaqin	
Block Title: eMCP	
Project: Teller	Rev: 1.0
Date: Thursday, September 08, 2016	Sheet 20 of 46

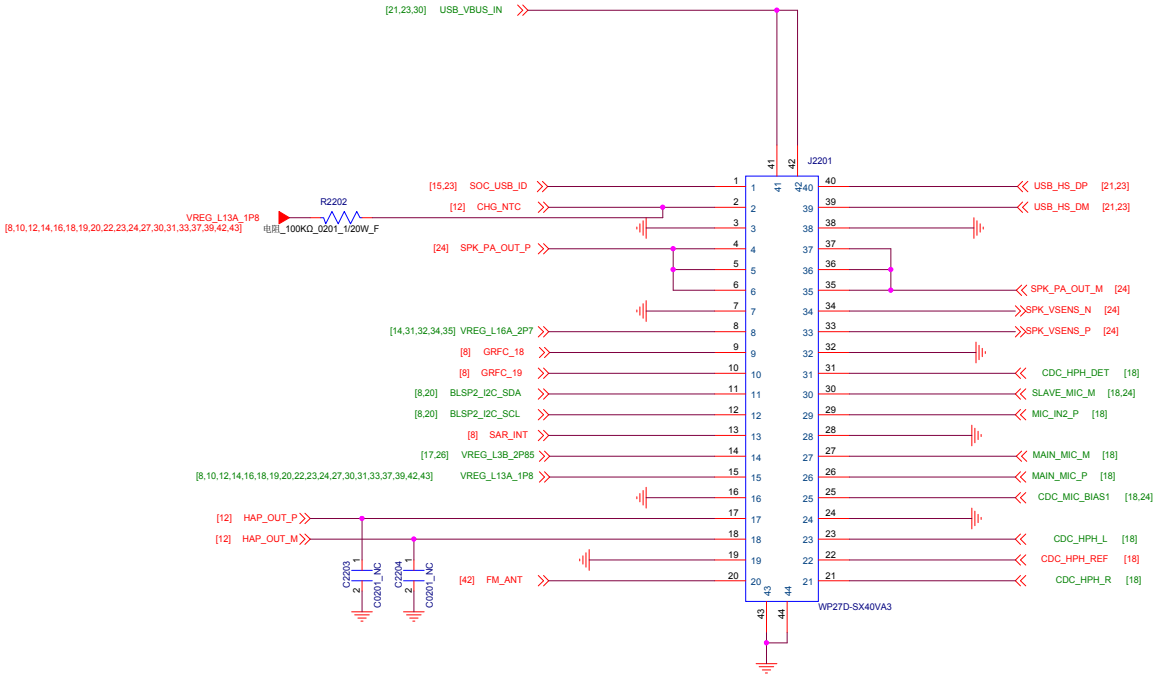




Company: Huaqin			
Block Title	30W CHARGE		
Project	Teller	Rev	1.0
Date:	Thursday, September 08, 2016	Sheet	21 of 46

B2B

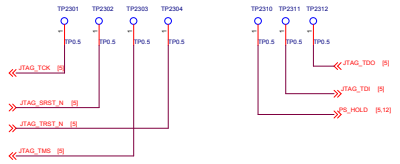
LINK FPC CON



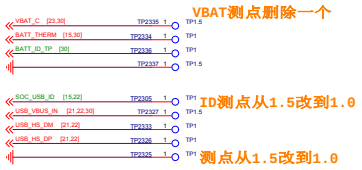
Company: Huaqin			
Block Title	Wipower		
Project	Teller	Rev	1.0
Date:	Thursday, September 06, 2018	Sheet 22 of 46	

Test Points

JTAG CONNECTOR



Factory TEST point



VBAT测点删除一个

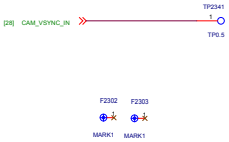
ID测点从1.5改到1.0

测点从1.5改到1.0

SYSTEM TEST point

测点从0.5改到0.8

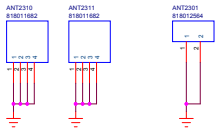
OTHER



Force USB boot

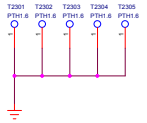
射频专用接地垫片

正面接地

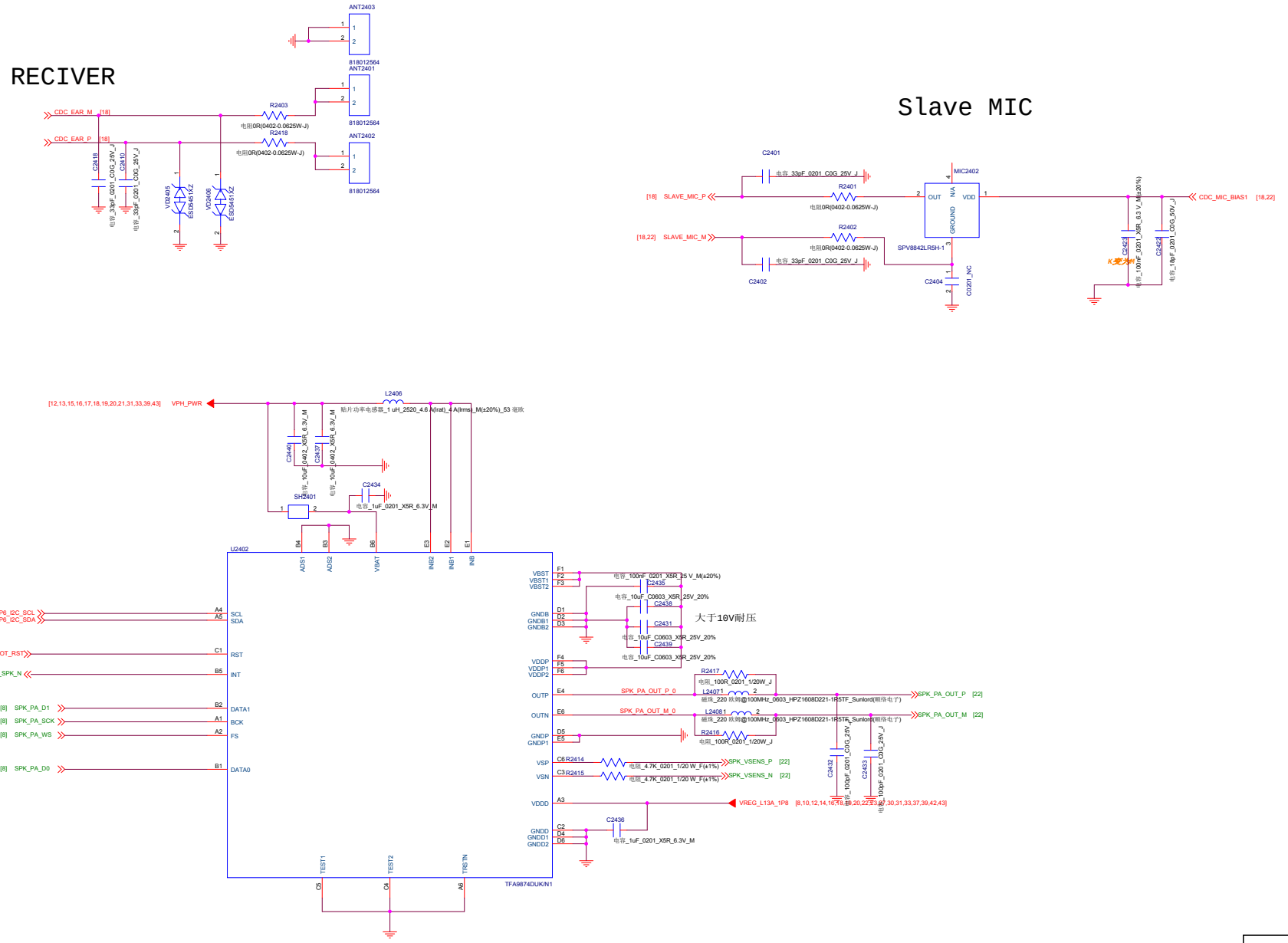


屏蔽罩

HOLE



Company: Huaqin			
Block Title	Test Points		
Project	Teller	Rev	1.0
Date:	Thursday, August 30, 2018	Sheet	23 of 46



Company: Huaqin		
Block Title	AUDIO_MIC_RCV_SPK	
Project	Teller	Rev 1.0
Date: Thursday, September 06, 2018	Sheet 24 of 46	

AUDIO_HEADSET

REF 2501-2599

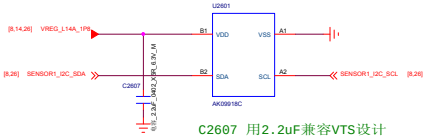
Company: Huaqin			
Block Title	AUDIO_HEADSET		
Project	Telfar	Rev	1.0
Date:	Thursday, August 30, 2018	Sheet	25 of 46

SENSORS_MOTOR

REF 2601-2699

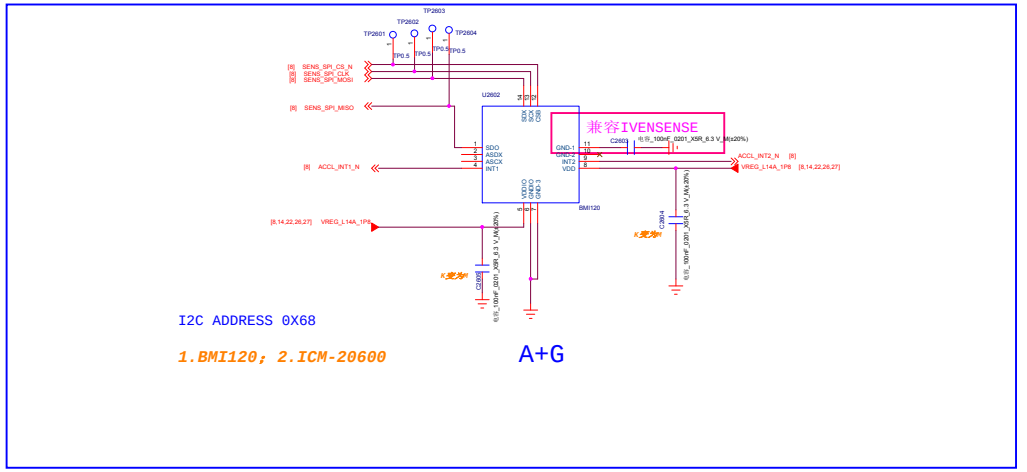
eCOMPASS

I2C Adress:0x0C



C2607 用2.2uF兼容VTS设计

1.AF6133 ; 2.MMC5603NJL美新新料



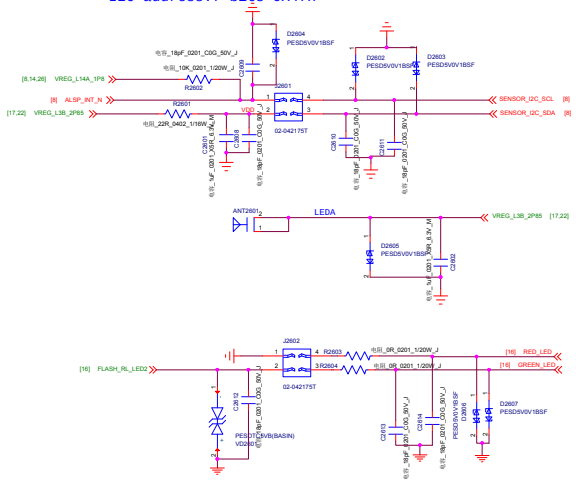
I2C ADDRESS 0X68

1.BMI120; 2.ICM-20600

A+G

接近光感STK3335

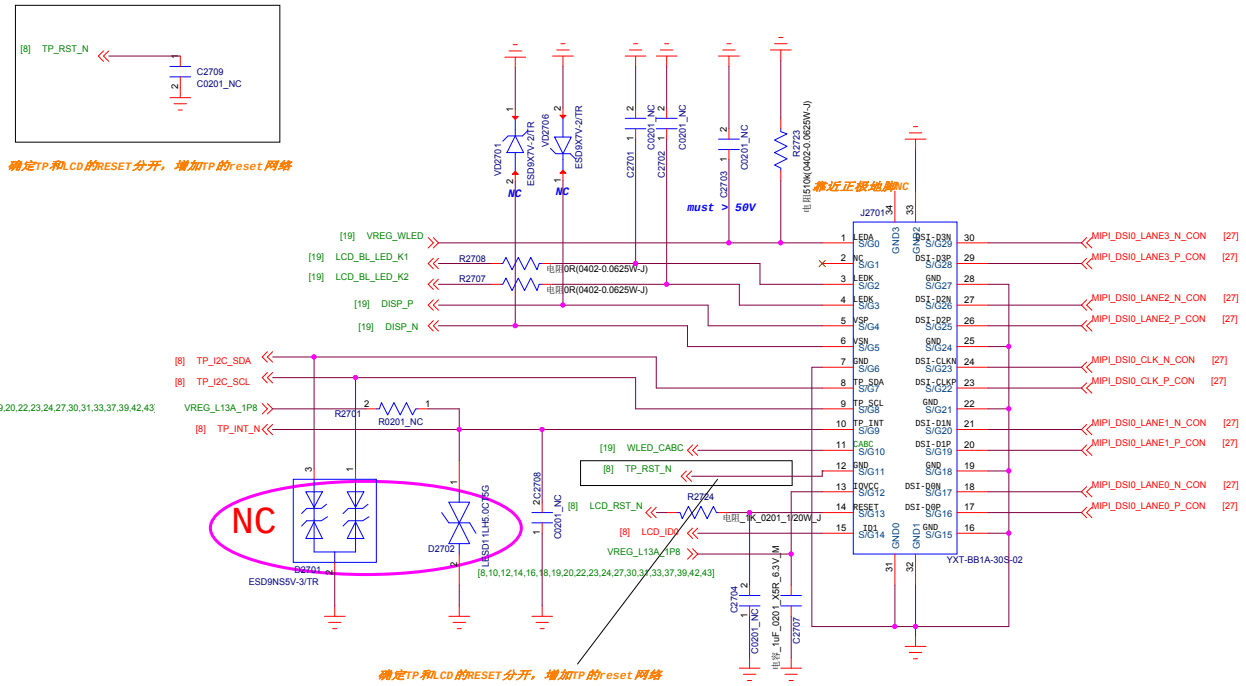
I2C address:7 bits 0X47H



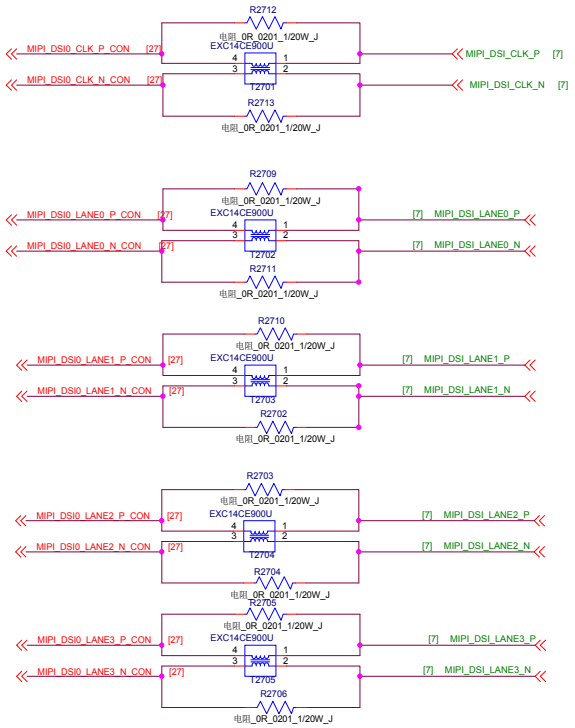
Company: Huaqin			
Block Title	SENSORS_MOTOR		
Project	Teller	Rev	1.0
Date:	Thursday, September 08, 2016	Sheet	25 of 46

LCD_TP_FPS

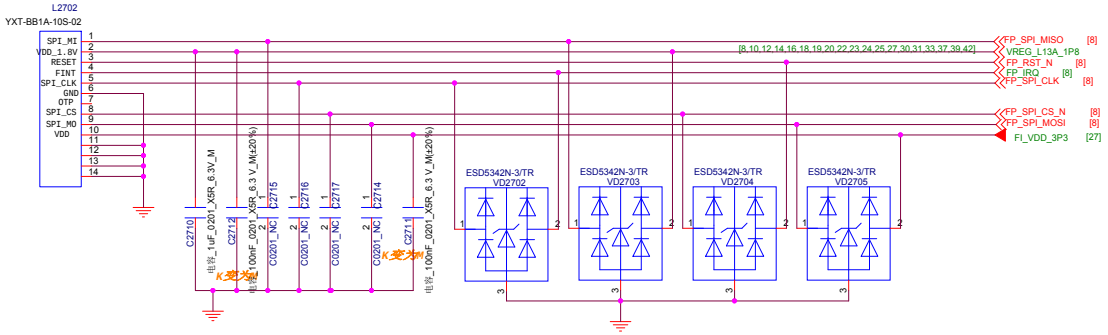
LCD&CTP-Connector

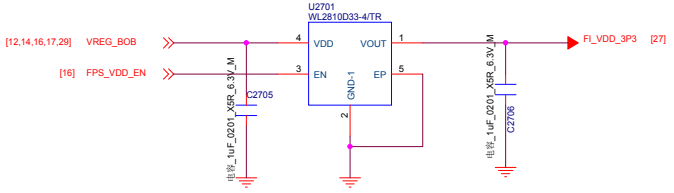


LCD MIPI Common Mode Filter



FPS Interface and Power

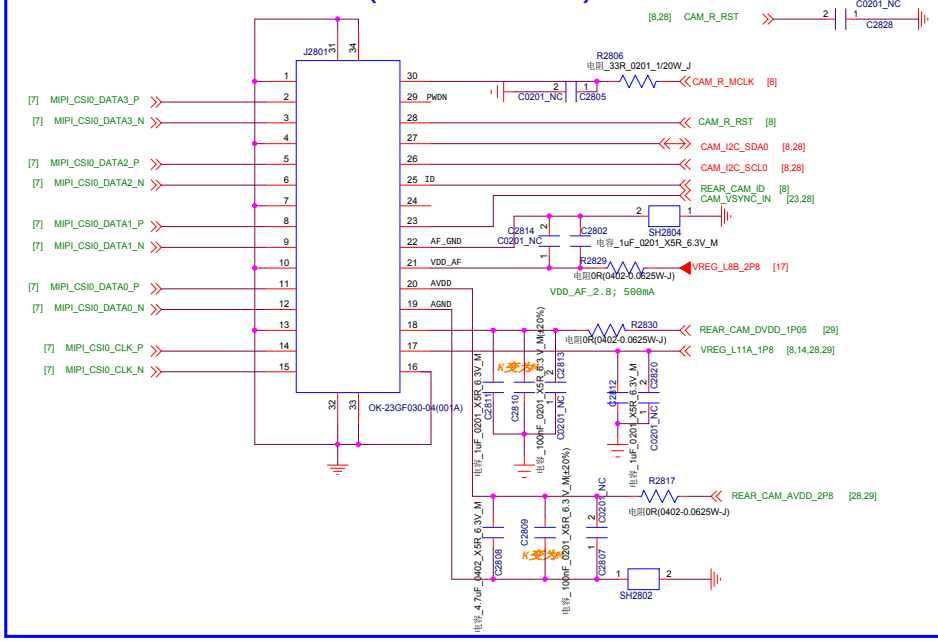




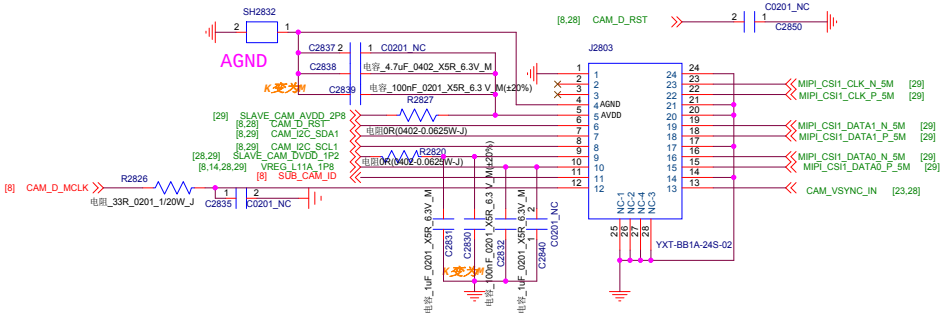
Company: Huaqin			
Block Title	LCD_TP		
Project	Teller	Rev	1.0
Date:	Thursday, September 06, 2018	Sheet	27 of 46

REAR_CAM/FLASH

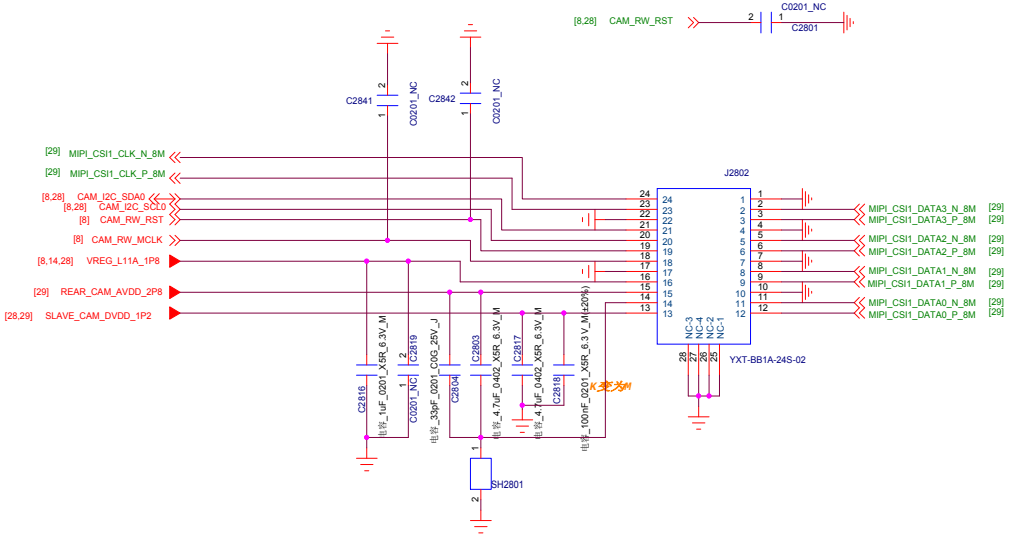
Rear CAM 1 12M AF(imx363和2L8)



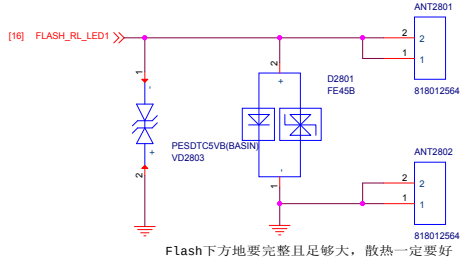
Slave CAM 2 5M(OV5670)



Rear CAM 3 8M wide angle(OV8856)



Rear Cam FLASH

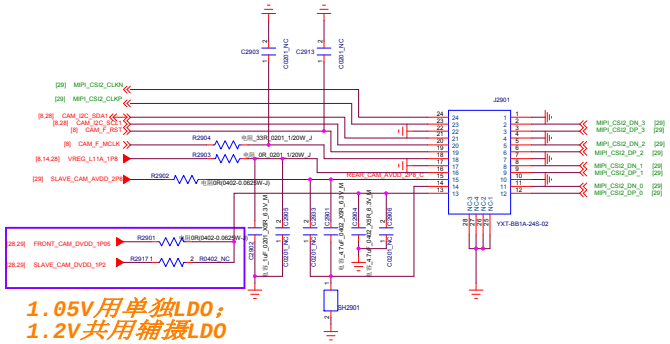


Flash下方地要完整且足够大，散热一定要好

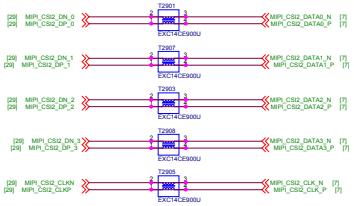
Company: Huaqin			
Block Title	REAR_CAM/FLASH		
Project	Teller	Rev	1.0
Date:	Thursday, September 06, 2018	Sheet	28 of 46

FRONT_CAM/CAM_POWER

REF 2901-2999 Front Camera 13M or 24M

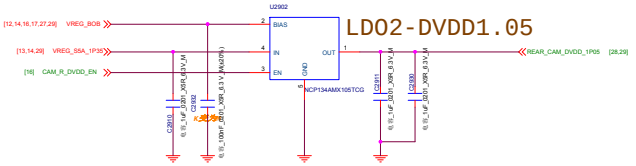


1.05V用单独LDO;
1.2V共用辅摄LDO



13M DVDD 1.2V/1.05V; 24M DVDD 1.05V

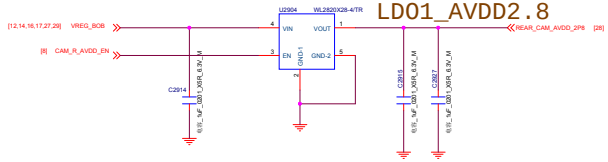
Rear-Main DVDD 1.05



LDO2-DVDD1.05

DVDD 1.05V 给12M后主摄

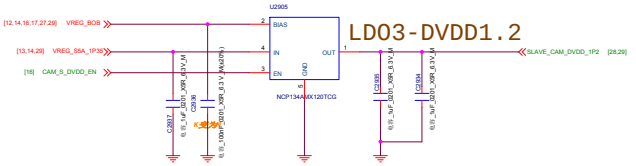
Rear-Main AVDD 2.8V



LDO1_AVDD2.8

AVDD 2.8V给12M后主摄和8M广角

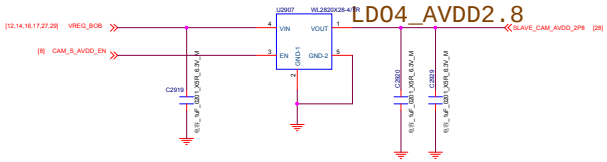
Slave-Main DVDD 1.2V



LDO3-DVDD1.2

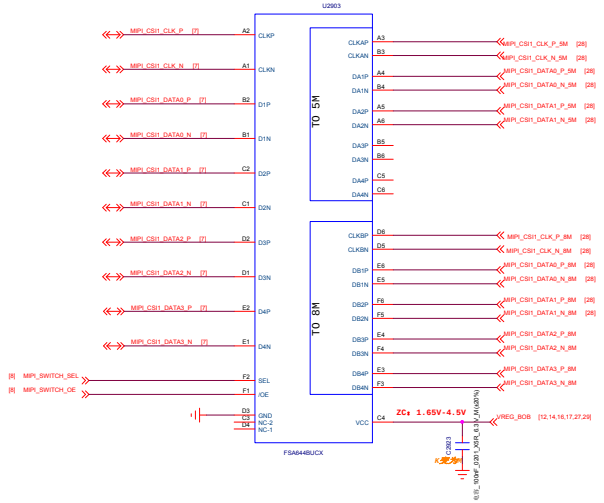
DVDD 1.2V 给5M后辅摄和8M广角或前摄

Slave-Main AVDD 2.8V



LDO4_AVDD2.8

AVDD 2.8V给5M后辅摄和前摄

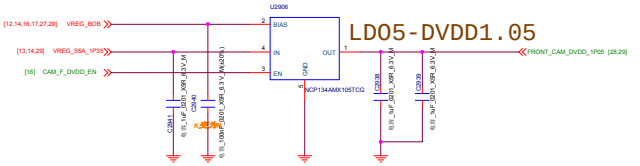


TO 5M

TO 8M

ZC: 1.65V-4.5V

Front DVDD 1.05V



LDO5-DVDD1.05

Company: Huaqin	
Block Title	FRONT_CAM/CAM_POWER
Project	Teller Rev 1.0
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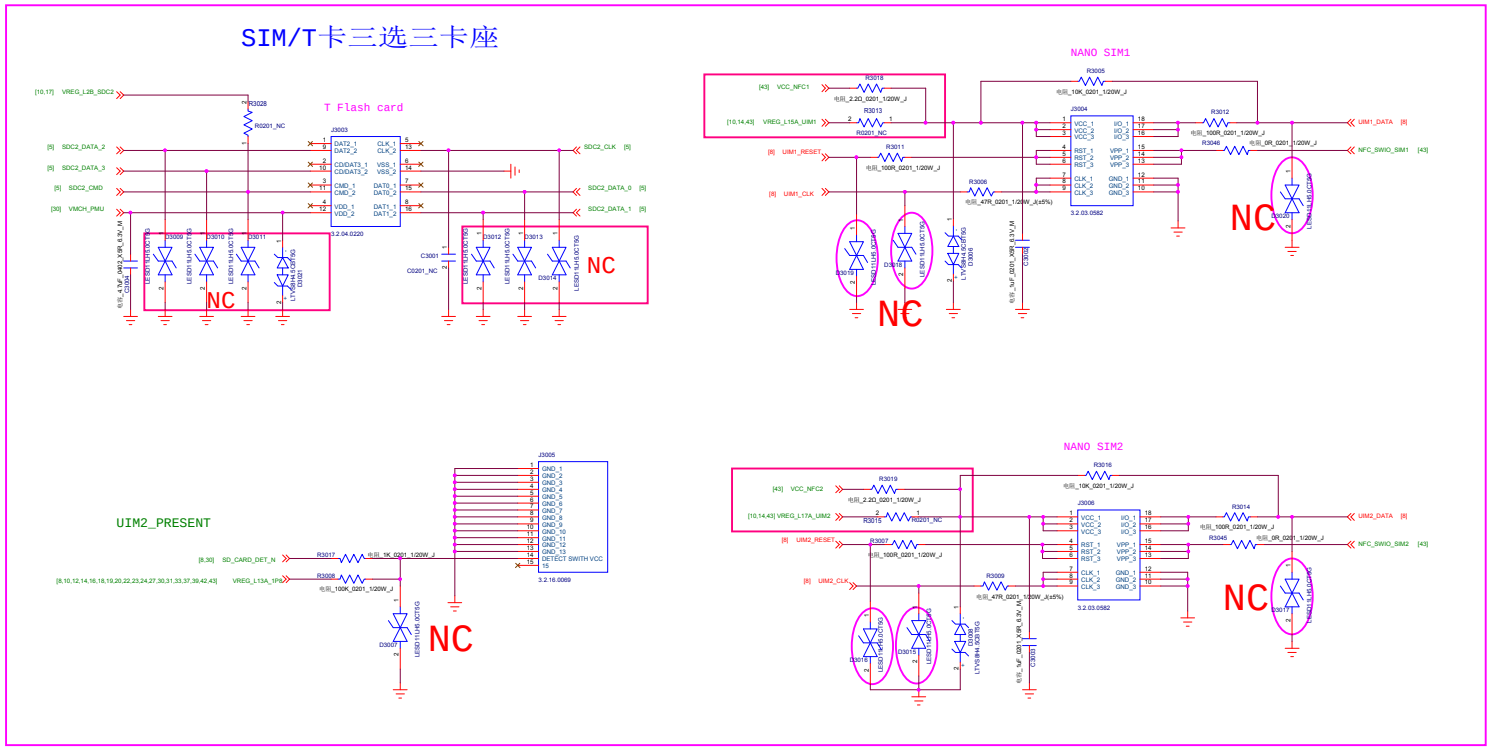

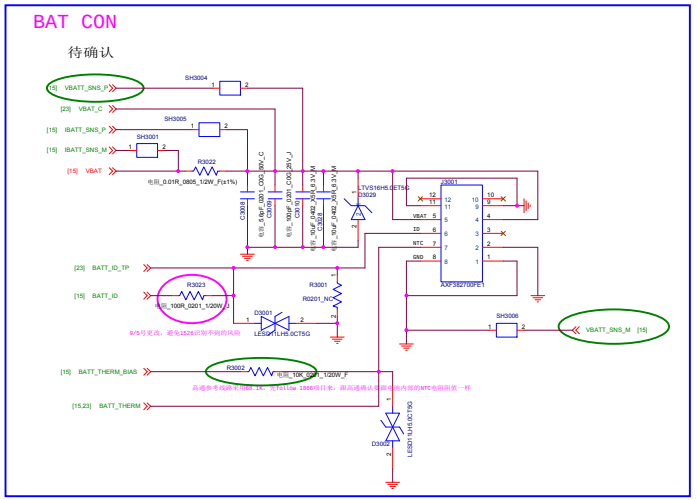

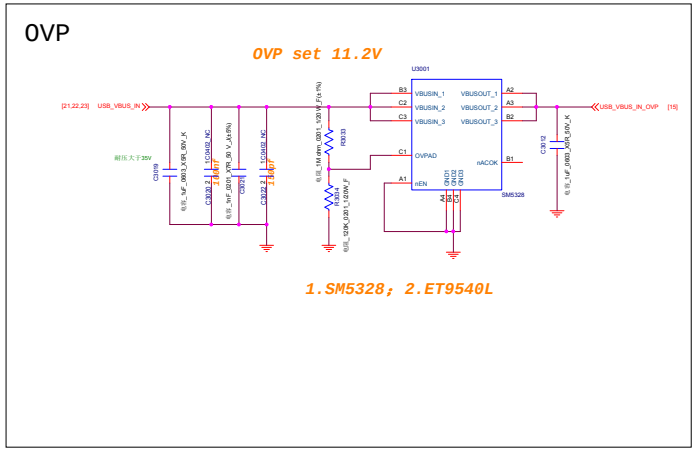

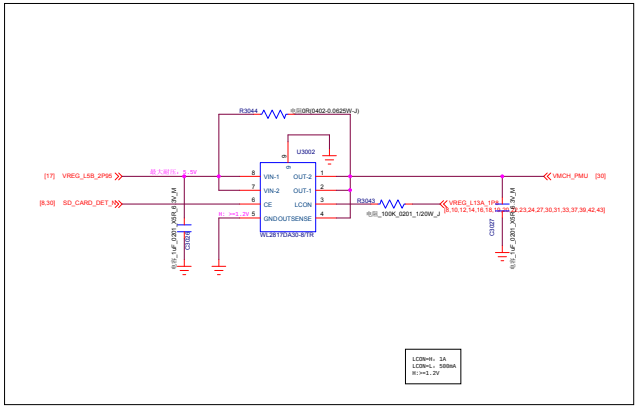

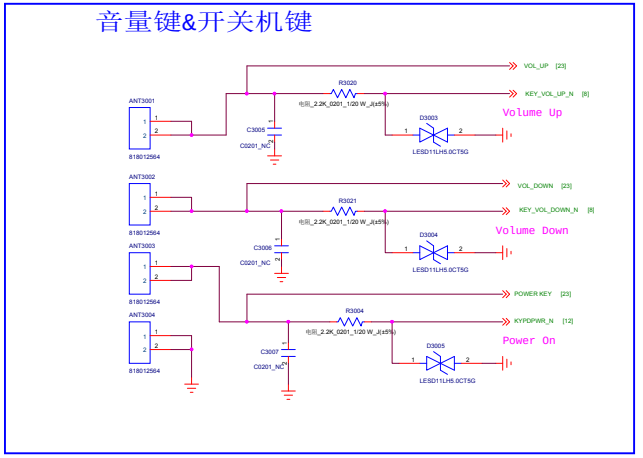

Company: Huaqin	
Block Title	SIM_SD_KEY_LINK_BATT
Project	Teller Rev 1.0
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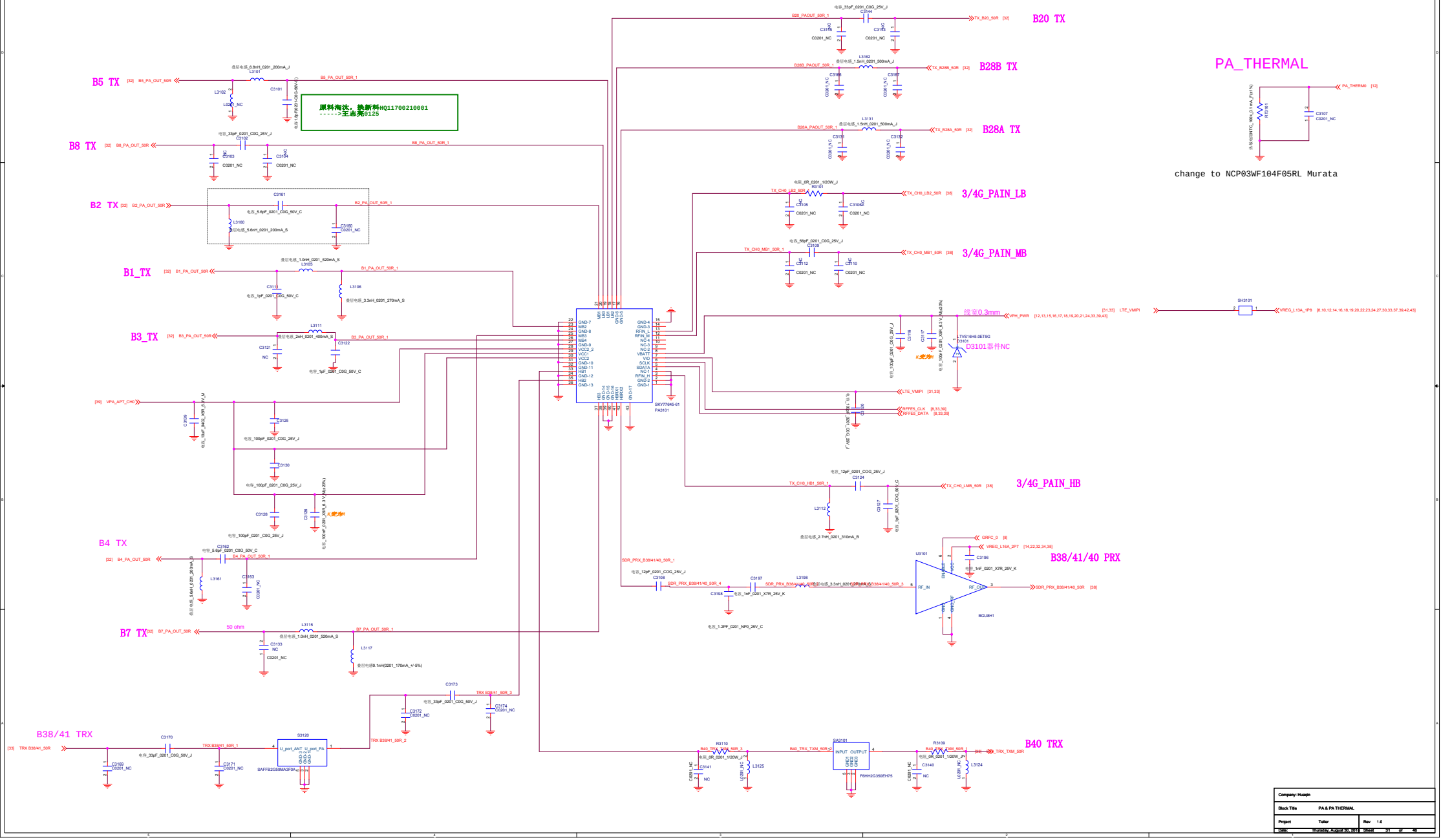
PA & PA THERMAL
REF 3401-3499

MMMB PA_CDMA/WCDMA/LTE TDD/FDD



Company: Huaqin	
Block Title: PA & PA THERMAL	
Project: Teller	Rev: 1.0
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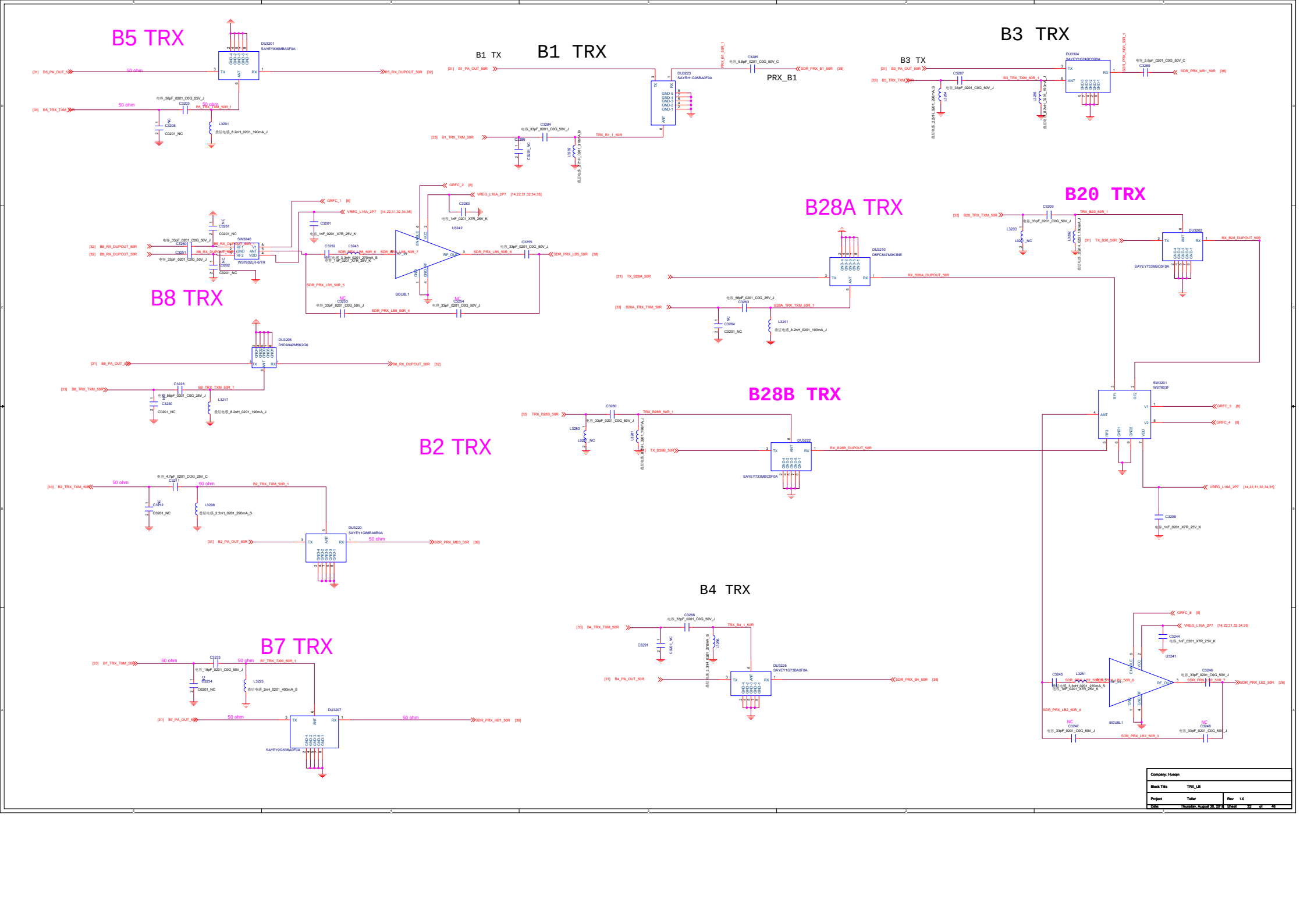
B5 TRX
B1 TX
B1 TRX
PRX_B1
B3 TRX
B3 TX
B8 TRX
B28A TRX
B20 TRX
B28B TRX
B2 TRX
B4 TRX
B7 TRX
Company: Huaqin
Block Title TRX_LB
Project Teller
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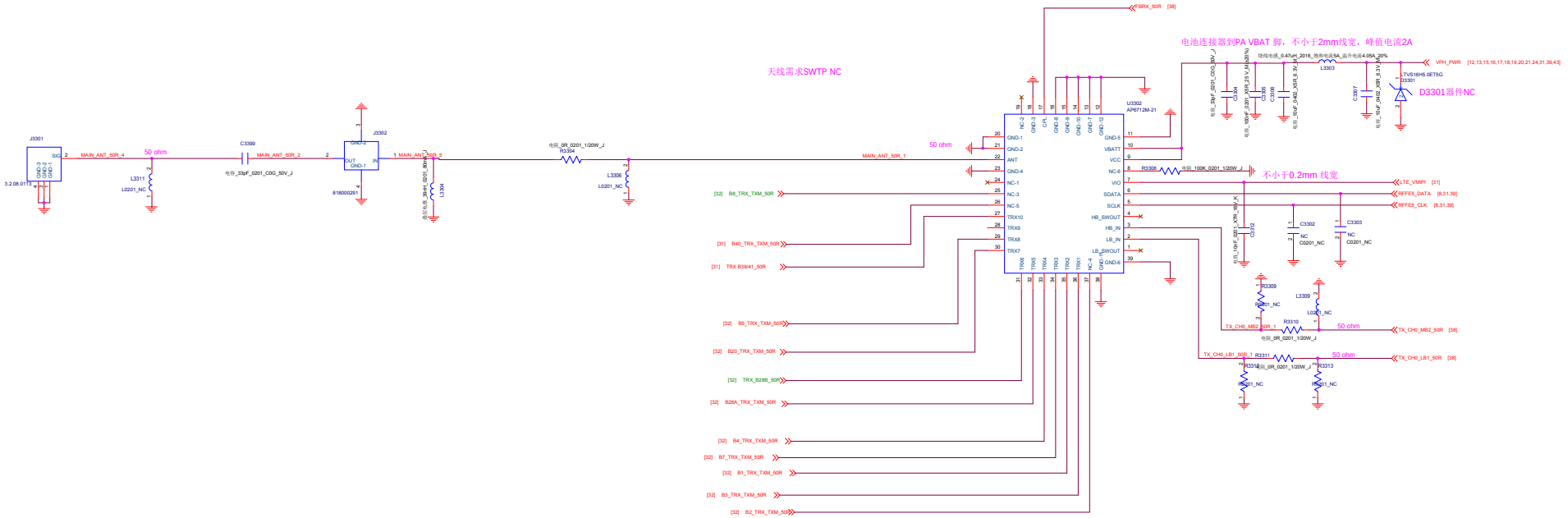
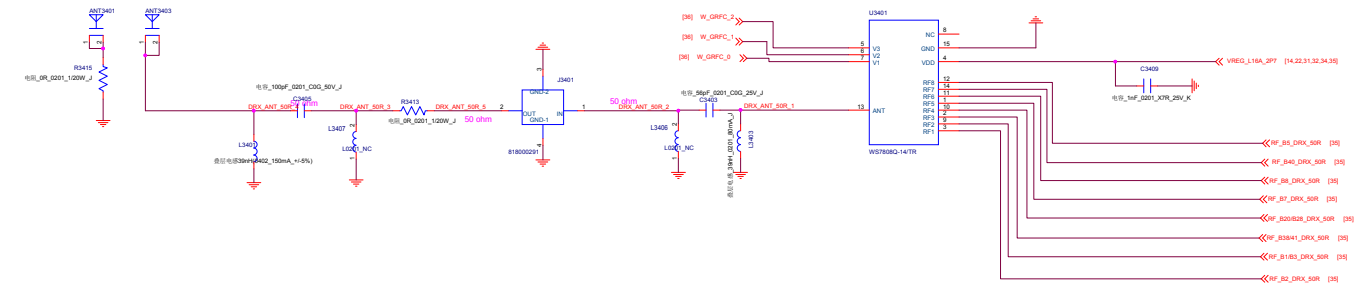
TXM_GSM

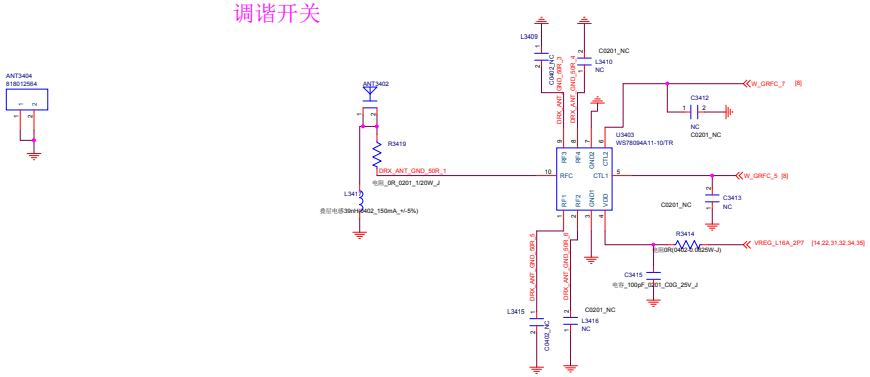


Company: Huaqin			
Block Title	TRX_MHB		
Project	Teller	Rev	1.0
Date:	Thursday, August 30, 2018	Sheet	33 of 46

DIV_ANT



调谐开关



Company: Huaqin			
Block Title	DIVERSITY_ANT		
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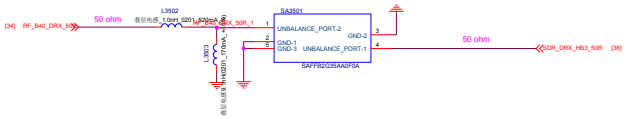
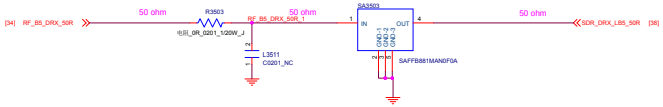
DRX_MB_HB

DRX_B1/B3

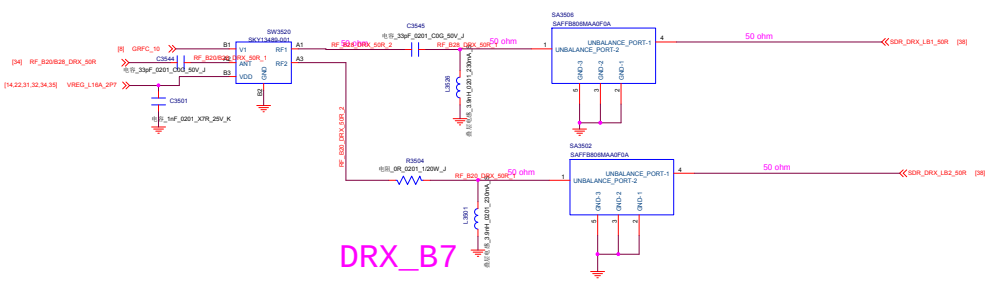
DRX_B40



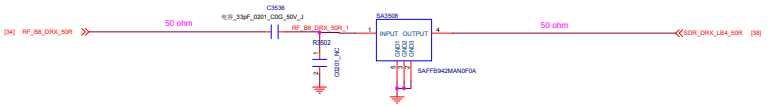
DRX_B5



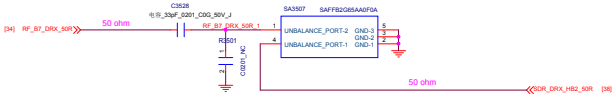
DRX_B20/B28



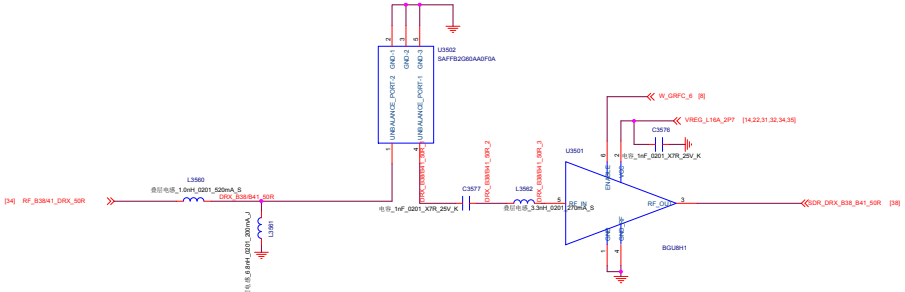
DRX_B8



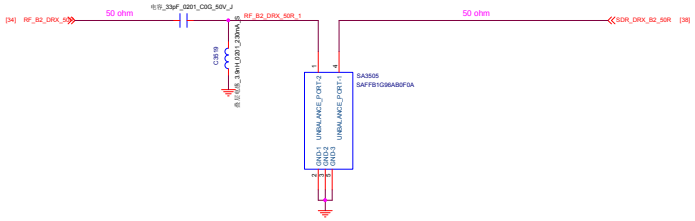
DRX_B7



DRX_B38/B41



DRX_B2



Company: Huaqin			
Block Title	DRX_MB_HB		
Project	Teller	Rev	1.0
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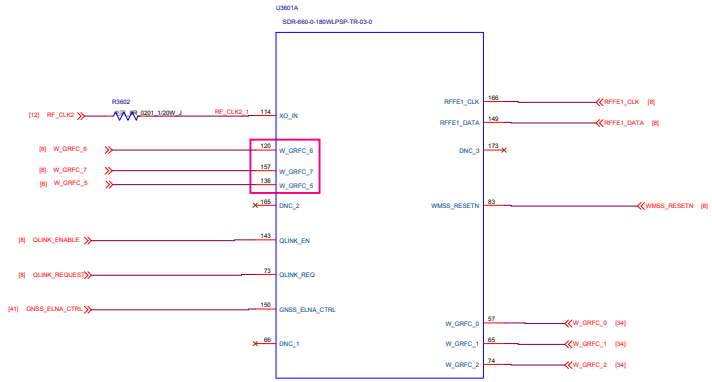
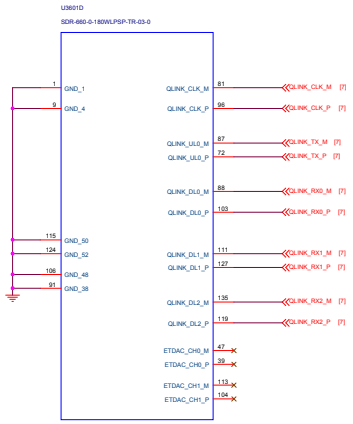
SDR660_MSS





Company: Huaqin			
Block Title	SDR660_MSS		
Project	Teller	Rev	1.0
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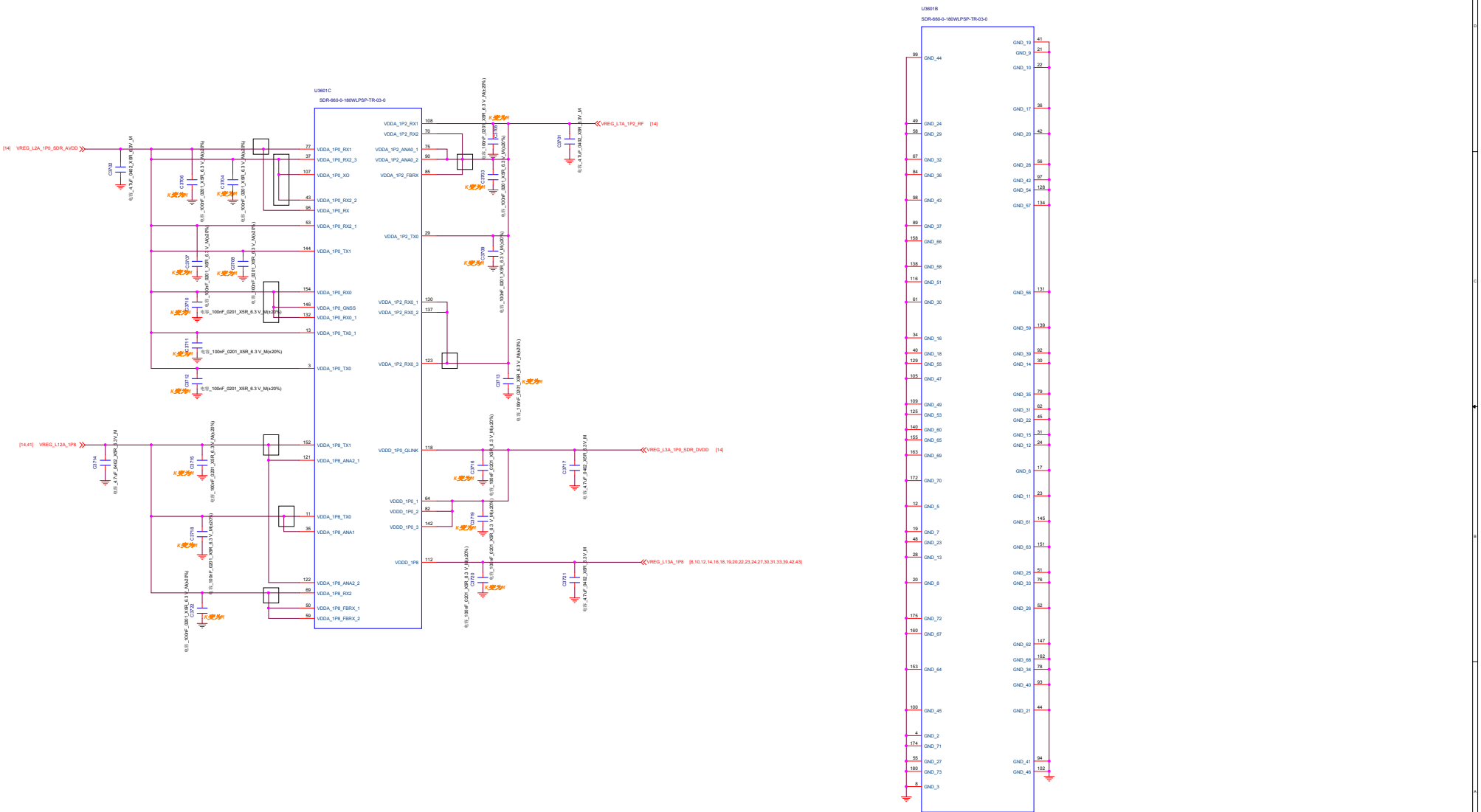
SDR660_PWR



Company: Huaqin			
Block Title	SDR660_PWR		
Project	Teller	Rev	1.0
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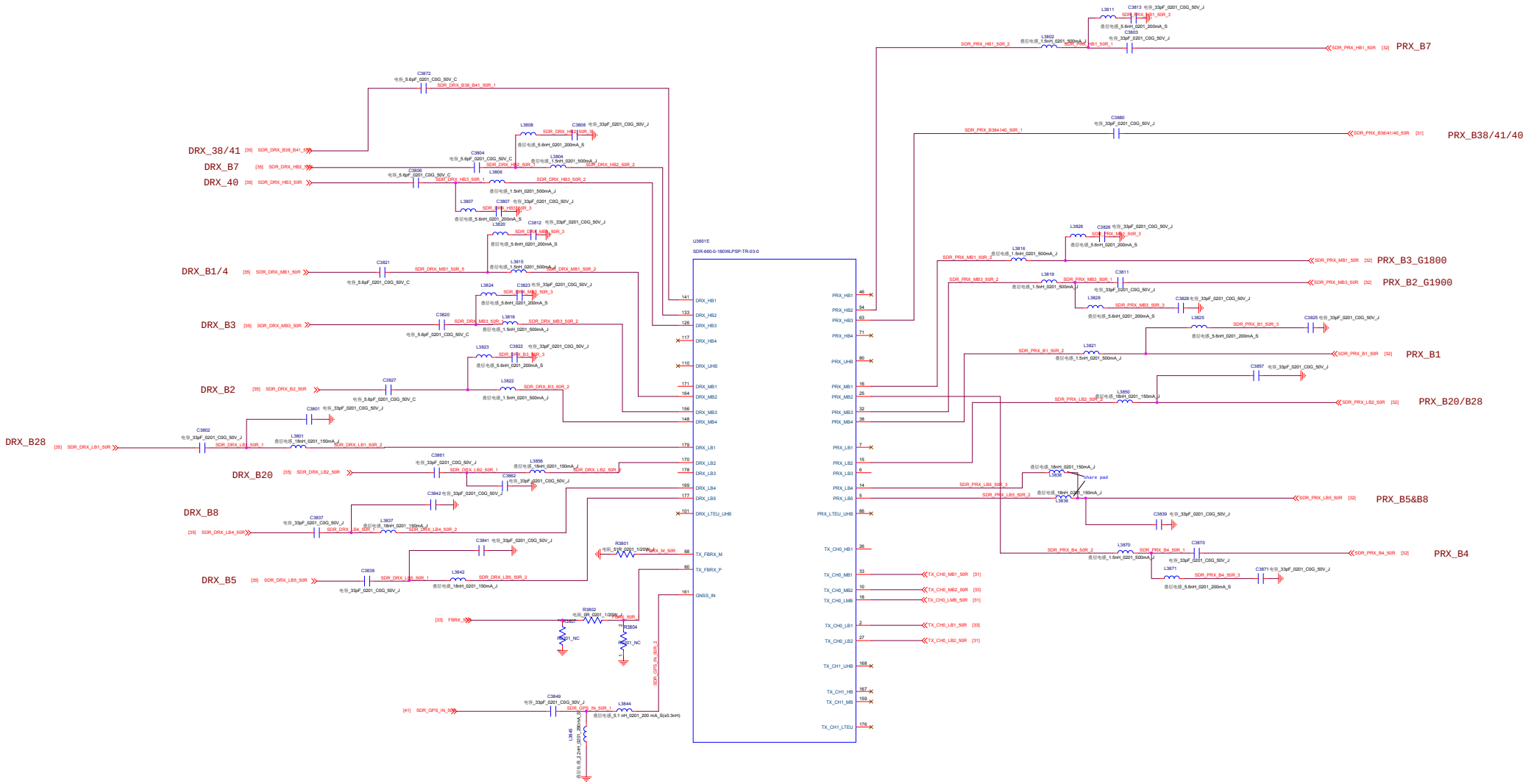
SDR660_DA/PRX/DRX/FBRX



Company: Huaqin			
Block Title	SDR660_DA/PRX/DRX/FBRX		
Project	Teller	Rev	1.0
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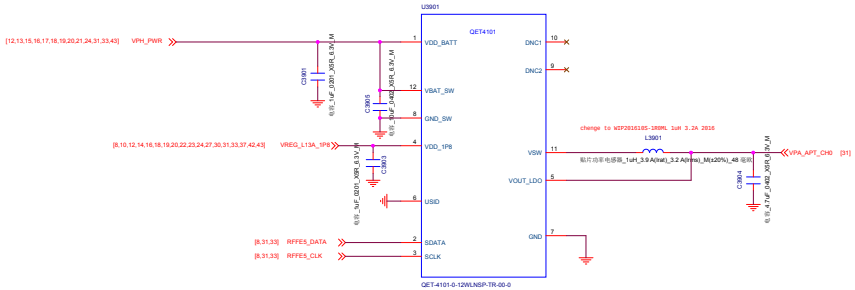
QET4101



Company: Huaqin			
Block Title	QET4101		
Project	Teller	Rev	1.0
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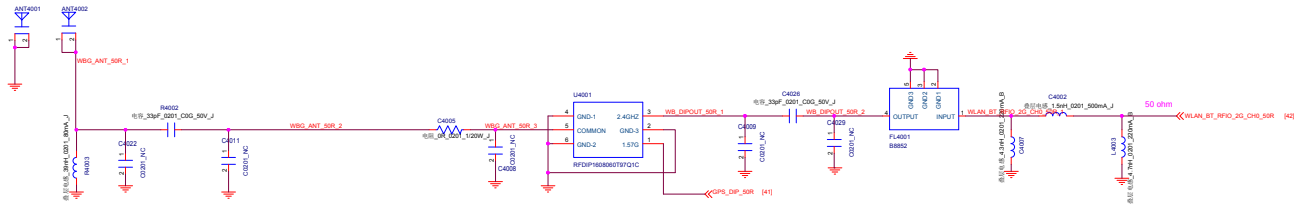
WIFI 2.4G/BT



Company: Huaqin			
Block Title	WIFI 2.4G/5G/BT		
Project	Teller	Rev	1.0
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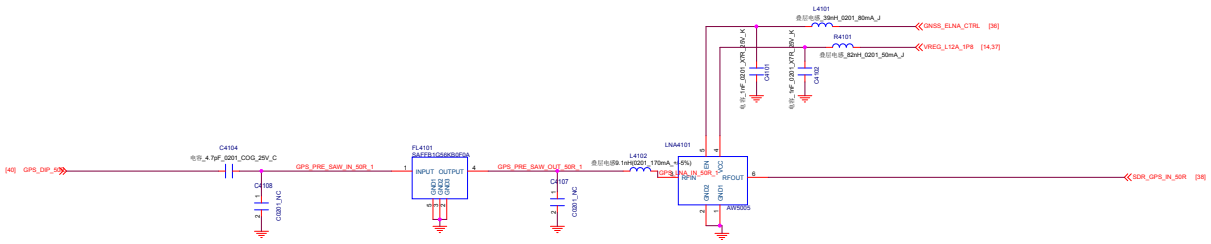
GPS



Company: Huaqin			
Block Title	GPS		
Project	Teller	Rev	1.0
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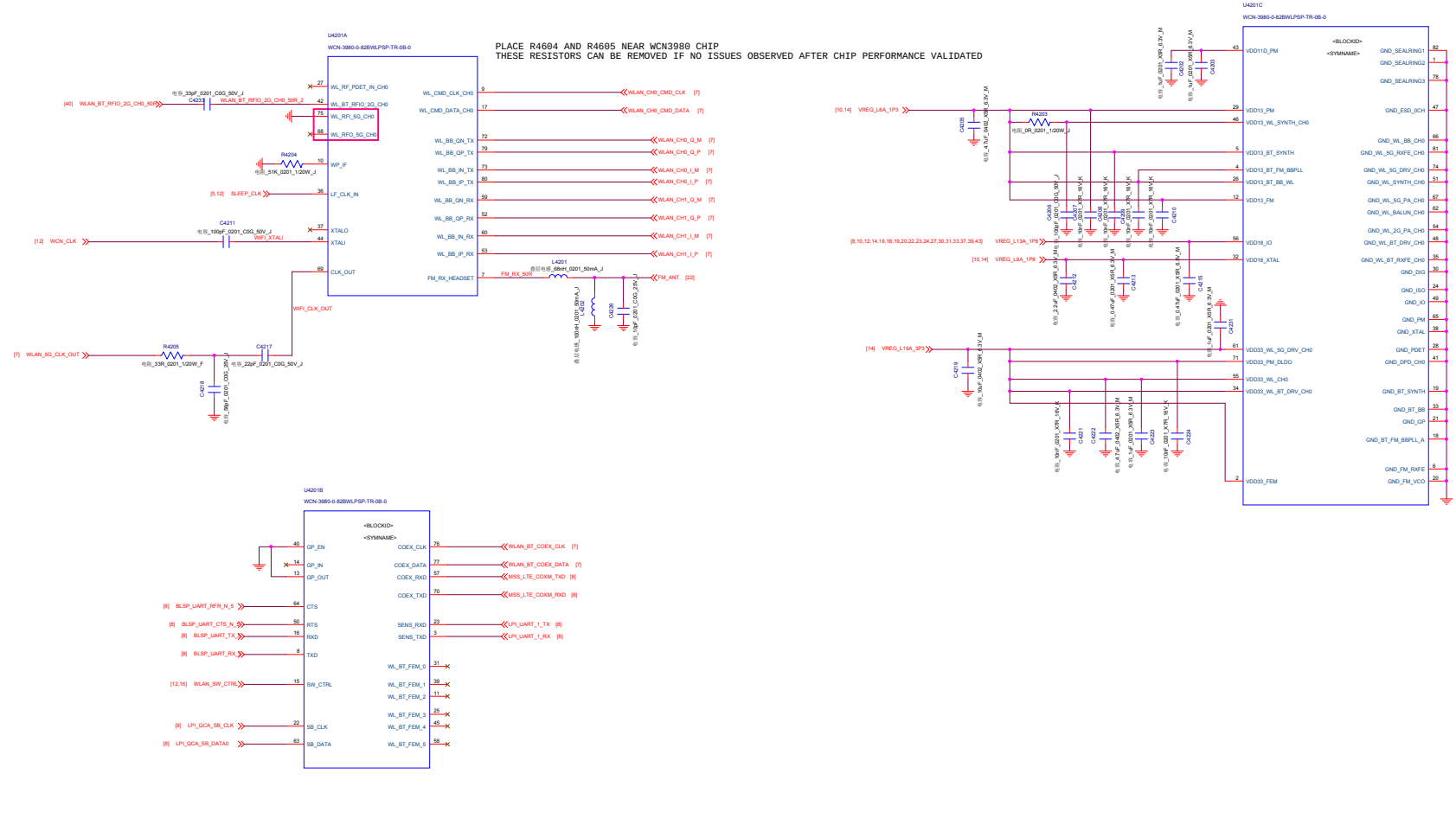
WCN_3980


PLACE R4604 AND R4605 NEAR WCN3980 CHIP
THESE RESISTORS CAN BE REMOVED IF NO ISSUES OBSERVED AFTER CHIP PERFORMANCE VALIDATED
U4201A
WCN-3980-0-82BWLPSP-TR-0B-0
U4201B
U4201C
WL_RF_PDET_IN_CH0
WL_BT_RFIO_2G_CH0
WL_RFI_5G_CH0
WL_RFO_5G_CH0
WP_IF
LF_CLK_IN
XTALO
XTALI
CLK_OUT
WL_CMD_CLK_CH0
WL_CMD_DATA_CH0
WL_BB_QN_TX
WL_BB_QP_TX
WL_BB_IN_TX
WL_BB_IP_TX
WL_BB_QN_RX
WL_BB_QP_RX
WL_BB_IN_RX
WL_BB_IP_RX
FM_RX_HEADSET
WLAN_CH0_CMD_CLK [7]
WLAN_CH0_CMD_DATA [7]
WLAN_CH0_Q_M [7]
WLAN_CH0_Q_P [7]
WLAN_CH0_I_M [7]
WLAN_CH0_I_P [7]
WLAN_CH1_Q_M [7]
WLAN_CH1_Q_P [7]
WLAN_CH1_I_M [7]
WLAN_CH1_I_P [7]
FM_ANT [22]
WIFI_CLK_OUT
WLAN_BT_RFIO_2G_CH0_50R_2
SLEEP_CLK
WCN_CLK
WIFI_XTALI
WLAN_5G_CLK_OUT
GP_EN
GP_IN
GP_OUT
CTS
RTS
RXD
TXD
SW_CTRL
SB_CLK
SB_DATA
COEX_CLK
COEX_DATA
COEX_RXD
COEX_TXD
SENS_RXD
SENS_TXD
WL_BT_FEM_0
WL_BT_FEM_1
WL_BT_FEM_2
WL_BT_FEM_3
WL_BT_FEM_4
WL_BT_FEM_5
WLAN_BT_COEX_CLK [7]
WLAN_BT_COEX_DATA [7]
MSS_LTE_COXM_TXD [8]
MSS_LTE_COXM_RXD [8]
LPI_UART_1_TX [8]
LPI_UART_1_RX [8]
VDD11D_PM
VDD13_PM
VDD13_WL_SYNTH_CH0
VDD13_BT_SYNTH
VDD13_BT_FM_BBPLL
VDD13_BT_BB_WL
VDD13_FM
VDD18_IO
VDD18_XTAL
VDD33_WL_5G_DRV_CH0
VDD33_PM_DLDO
VDD33_WL_CH0
VDD33_WL_BT_DRV_CH0
VDD33_FEM
GND_SEALRING1
GND_SEALRING2
GND_SEALRING3
GND_ESD_0CH
GND_WL_BB_CH0
GND_WL_5G_RXFE_CH0
GND_WL_5G_DRV_CH0
GND_WL_SYNTH_CH0
GND_WL_5G_PA_CH0
GND_WL_BALUN_CH0
GND_WL_2G_PA_CH0
GND_WL_BT_DRV_CH0
GND_WL_BT_RXFE_CH0
GND_DIG
GND_ISO
GND_IO
GND_PM
GND_XTAL
GND_PDET
GND_DPD_CH0
GND_BT_SYNTH
GND_BT_BB
GND_GP
GND_BT_FM_BBPLL_A
GND_FM_RXFE
GND_FM_VCO
VREG_L6A_1P3
VREG_L13A_1P8
VREG_L19A_3P3
R4204
R4205
R4303
C4211
C4217
C4218
C4232
C4233
C4235
C4236
C4237
C4238
C4239
C4410
C4412
C4413
C4415
C4419
C4421
C4422
C4423
C4424
L4201
L4202
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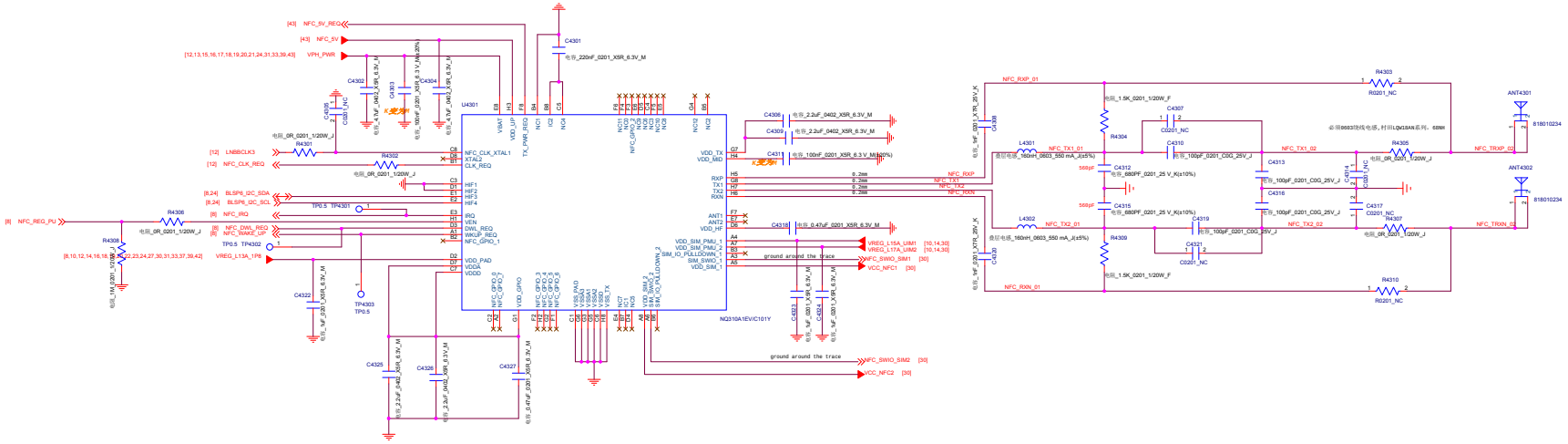
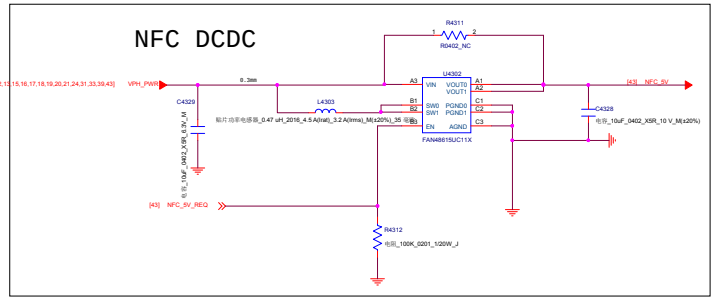
NFC

REF 3201-3299

PN553　I2C Adress:0x28　(Write:0x50　　Read:0x51)





Company: Huaqin	
Block Title: WCN3980	
Project: Teller	Rev: 1.0
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