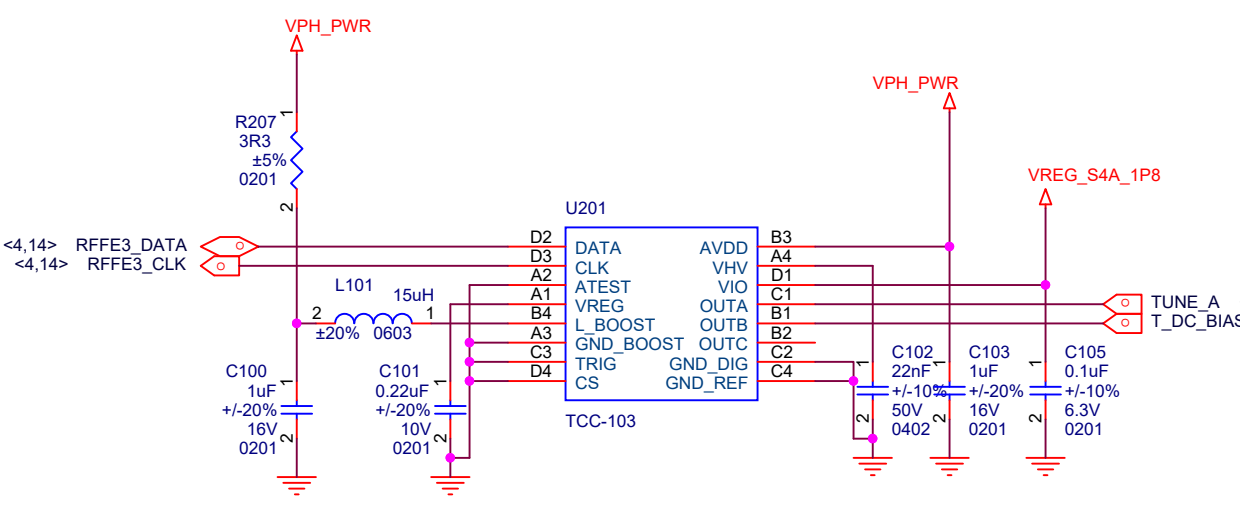


### PRIMARY SWITCH(SP16T) LOGIC

Antenna Path	Bit[7]	Bit[6]	Bit[5]	Bit[4]	Bit[3]	Bit[2]	Bit[1]	Bit[0]
Sleep mode (standby)	X	0	0	0	0	0	0	0
2G transmit low band	X	0	0	0	1	0	1	0
2G transmit high band	X	0	0	0	1	0	0	0
TRX1	X	0	0	0	0	1	0	0
TRX2	X	0	0	0	0	1	0	1
TRX3	X	0	0	0	0	1	1	0
TRX4	X	0	0	0	0	1	1	1
TRX5	X	0	0	0	1	0	0	1
TRX6	X	0	0	0	1	0	1	1
TRX7	X	0	0	0	1	1	0	0
TRX8	X	0	0	0	0	0	0	1
TRX9	X	0	0	0	0	0	1	0
TRX10	X	0	0	0	0	0	1	1
TRX11	X	0	0	0	1	1	0	1
TRX12	X	0	0	0	1	1	1	0
TRX13	X	0	0	1	0	0	0	0
TRX14	X	0	0	1	0	0	0	1
Isolation mode (warm-up)	X	1	1	1	1	1	1	1

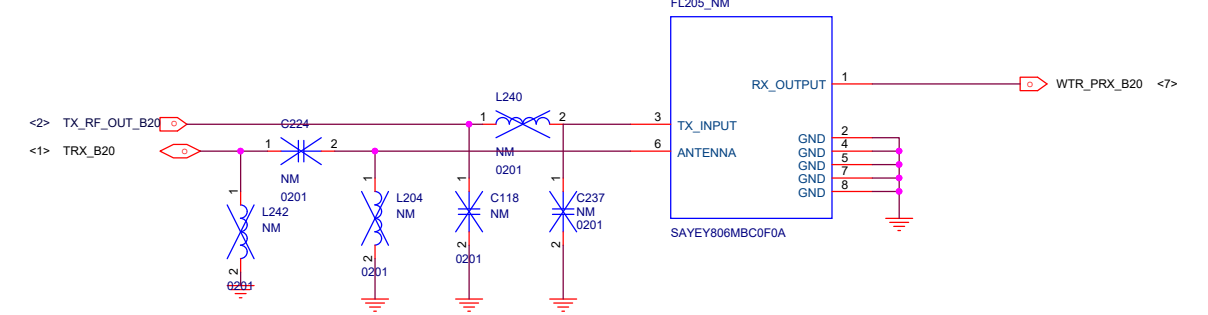
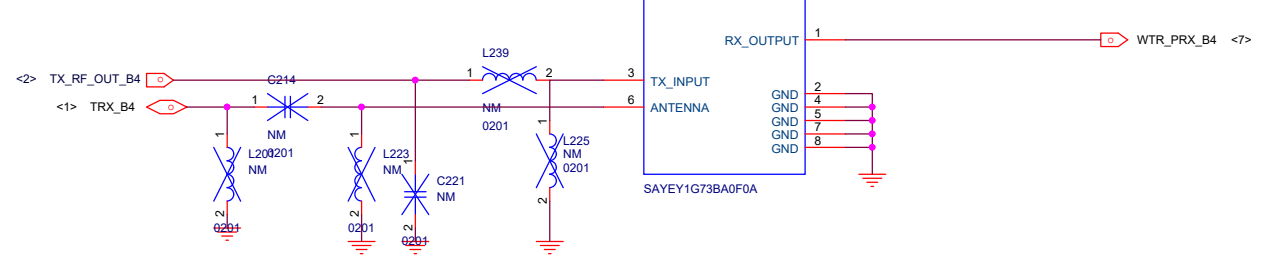
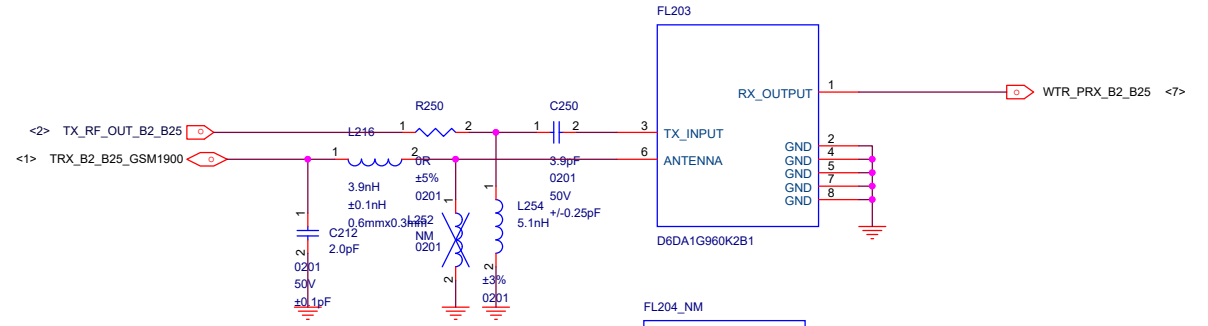
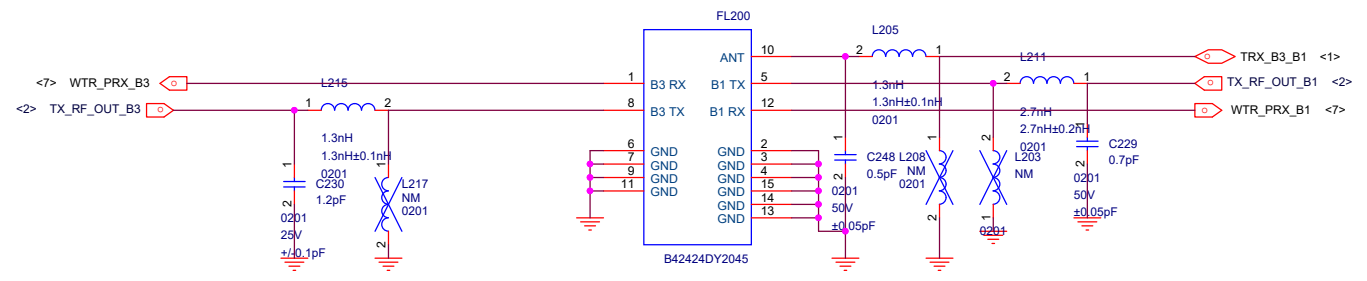
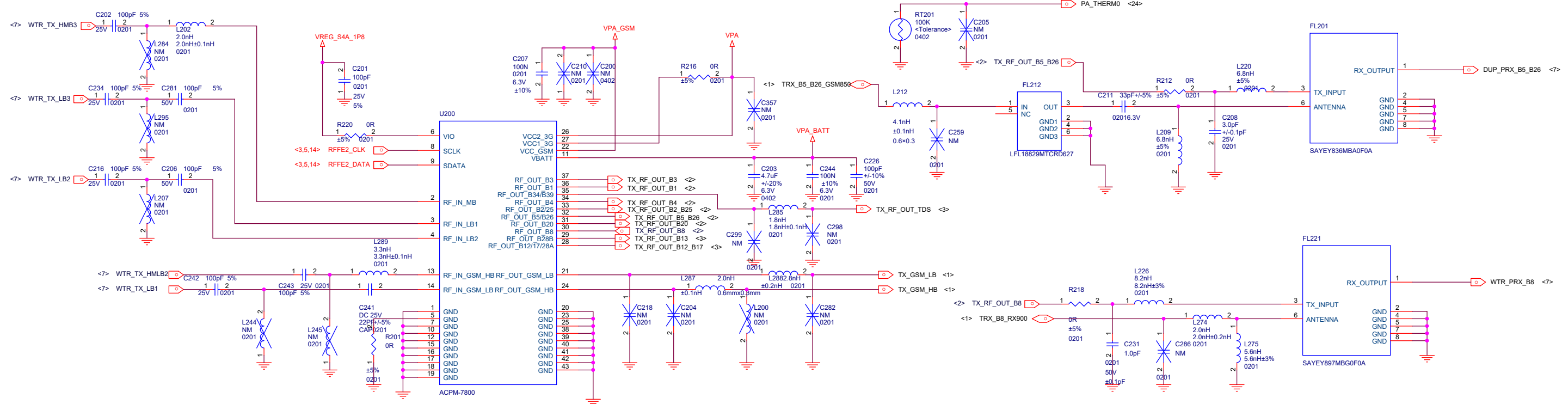


### CXM3593

CTL 1	CTL 2	Active path
L	H	RF1-RF4 RF2-RF3
H	L	RF1-RF3 RF2-RF4

Primary Ant Connector, Coupler and Primary Switchplexer

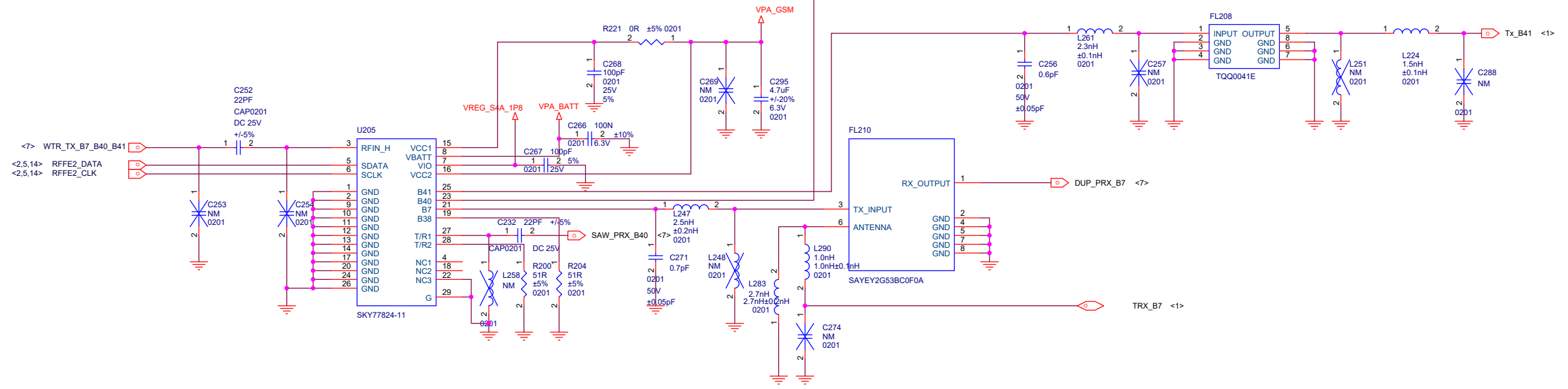
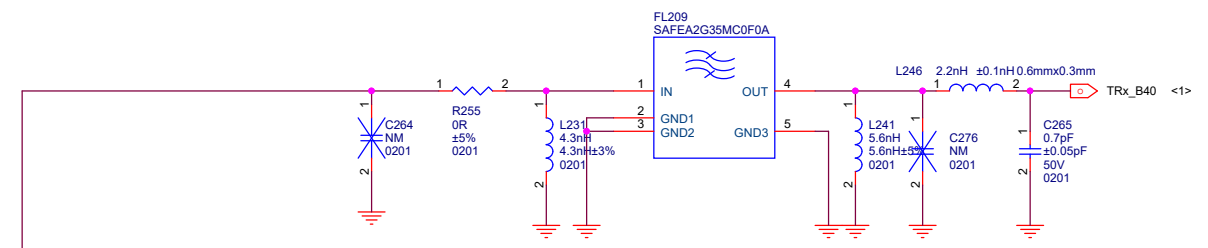
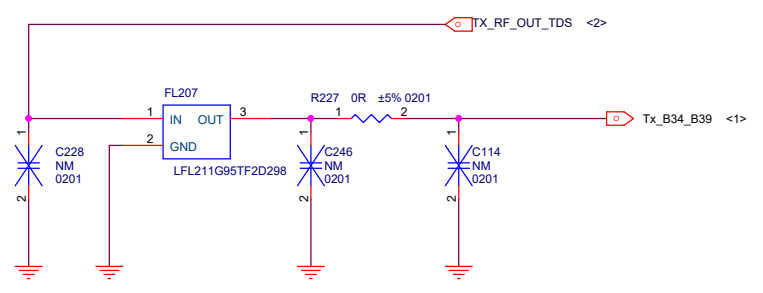
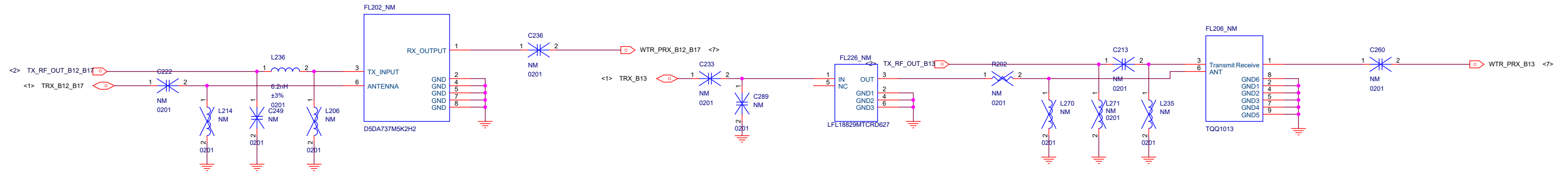
Title		
B7		
Size	Document Number	Rev
A3	ANT CON&COUPLER&SWITCHPL	P0
Date:	Wednesday, August 17, 2016	Sheet 1 of 35



RF7301 LOGIC

POWER MODE	PA_ON3_B34_B39	TDS_PA0_R0	TDS_PA0_R1
POWER DOWN MODE	L	L	L
STANDBY MODE	L	X	X
HIGH POWER STATE	H	L	L
MEDIUM POWER STATE	H	H	L
LOW POWER STATE		H	H

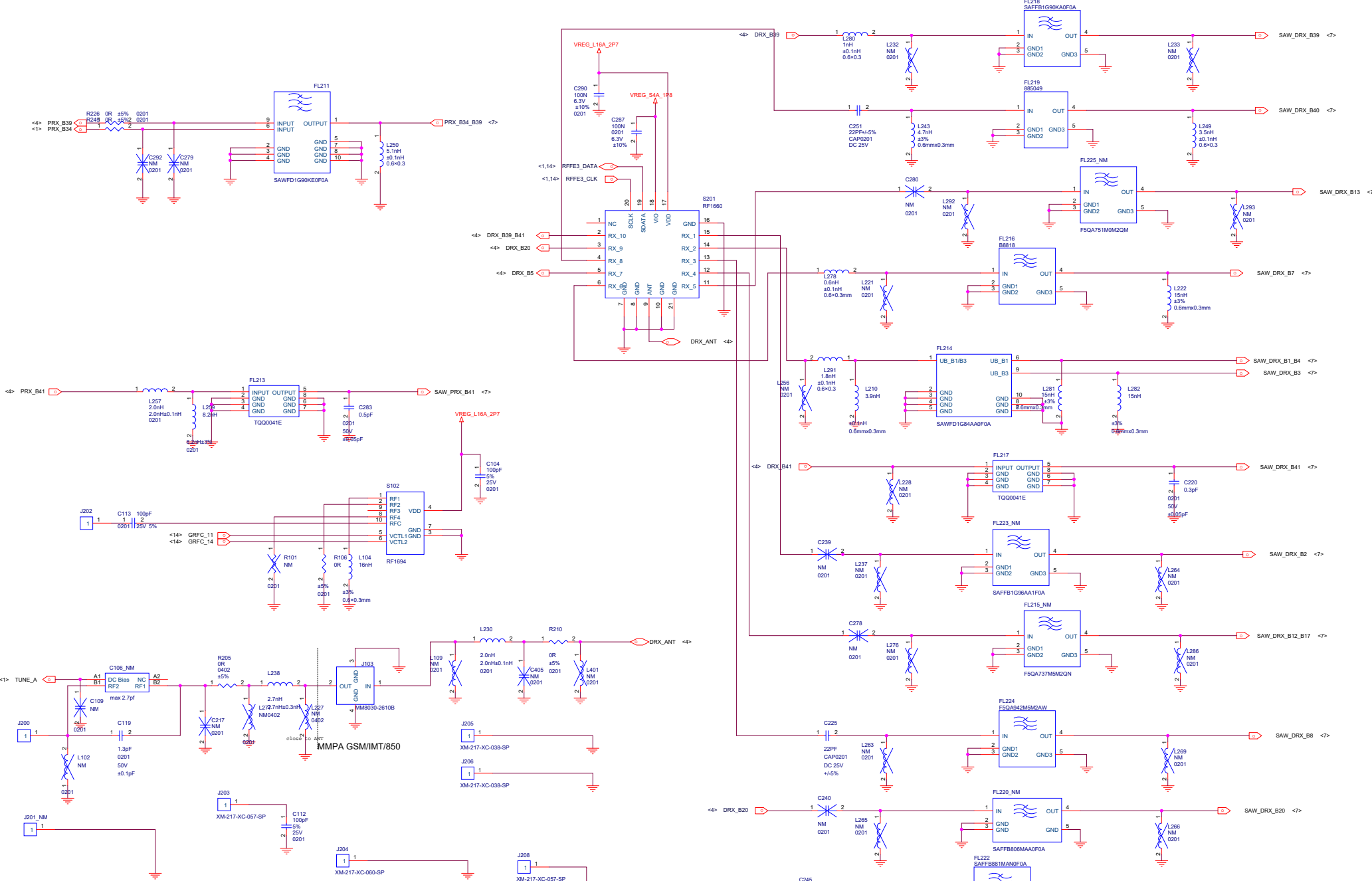




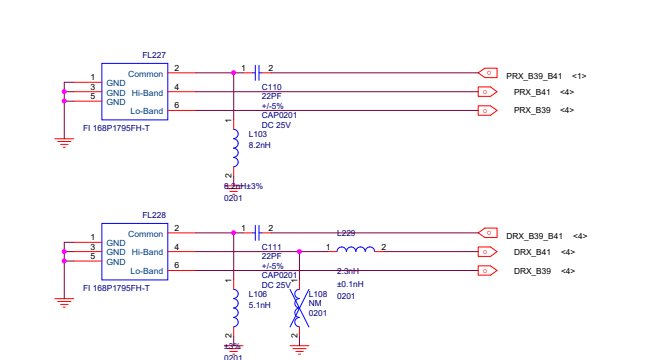
RF7301 LOGIC

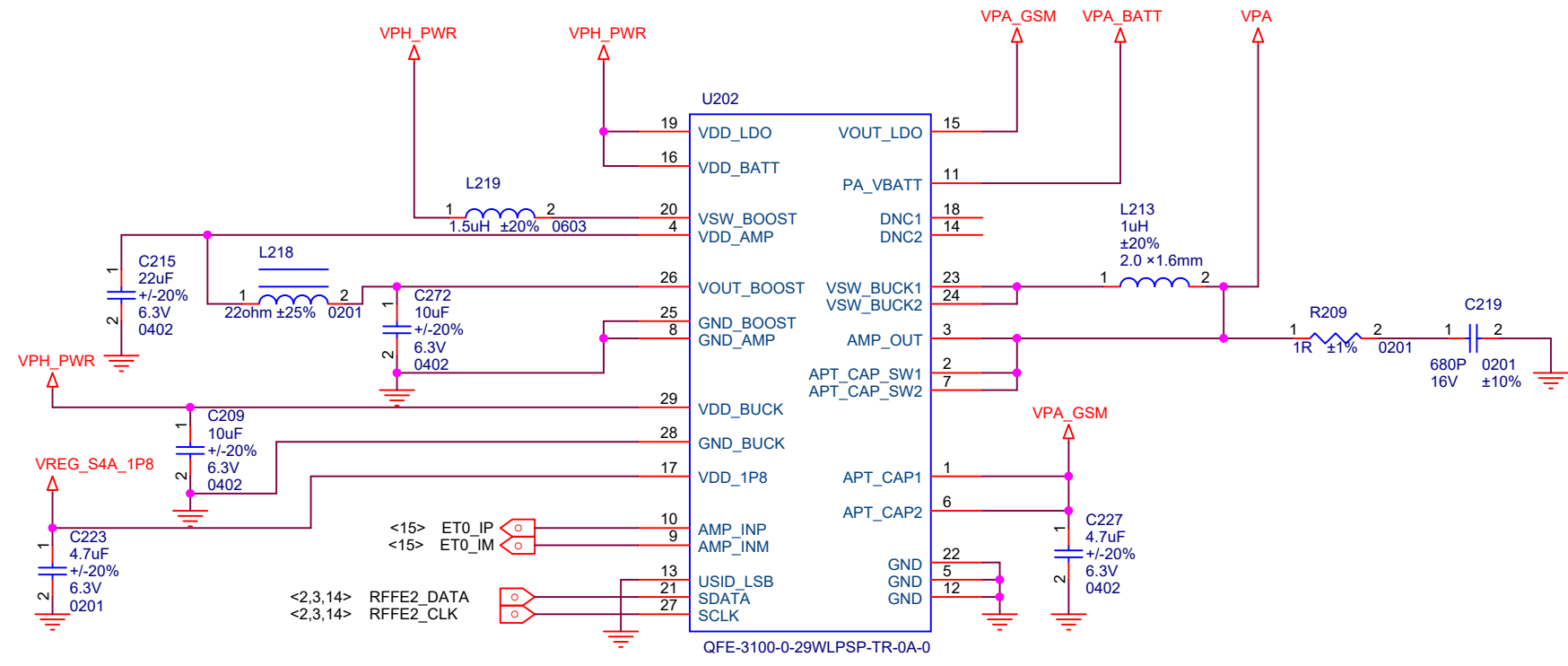
POWER MODE	PA_ON3_B34_B39	TDS_PA0_R0	TDS_PA0_R1
POWER DOWN MODE	L	L	L
STANDBY MODE	L	X	X
HIGH POWER STATE	H	L	L
MEDIUM POWER STATE	H	H	L
LOW POWER STATE		H	H





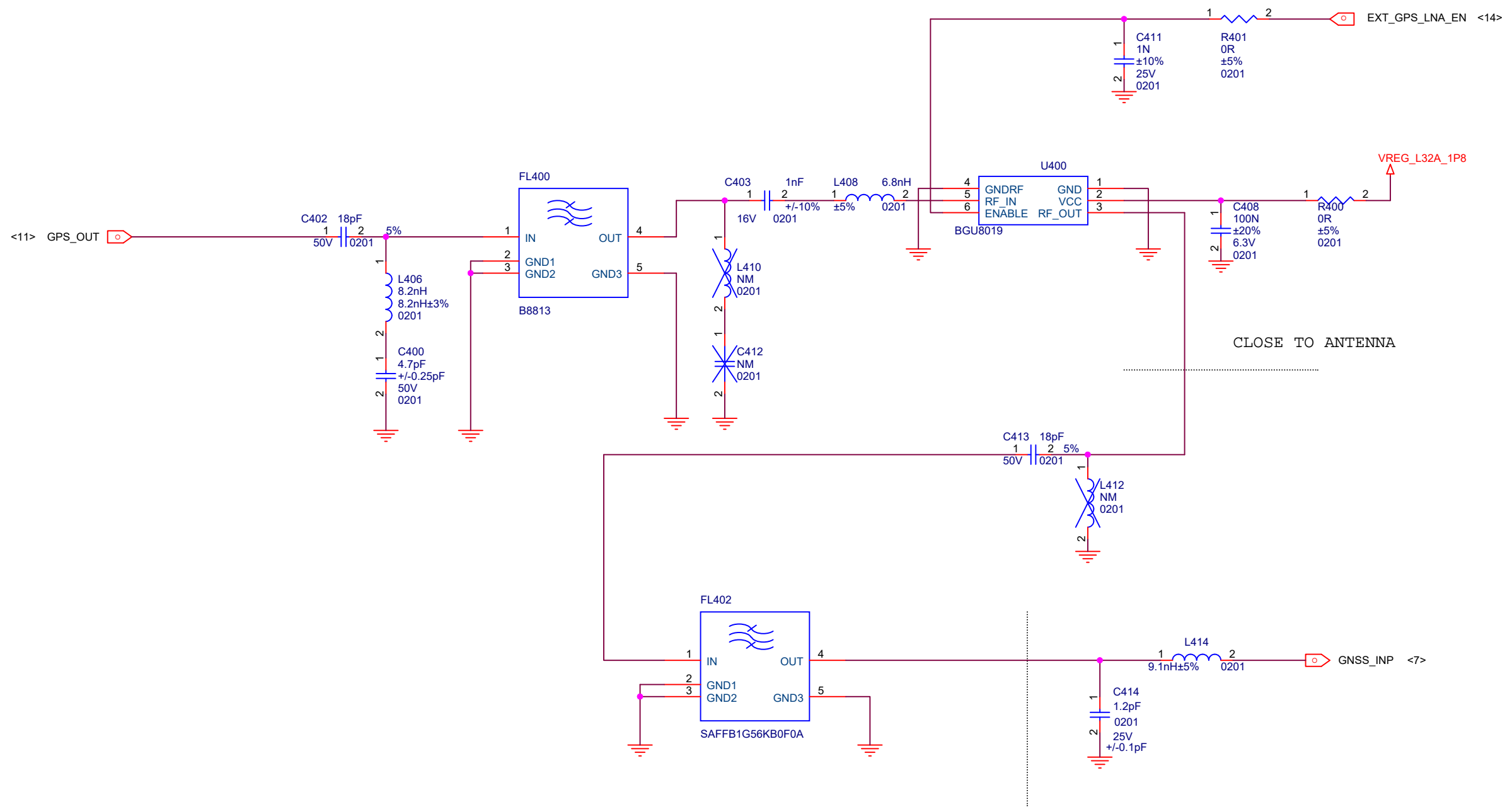
PRx and Drx	SP4T_CTRL_1	SP4T_CTRL_2
B2	H	L
B34	L	L
B1	L	H
B3	H	H

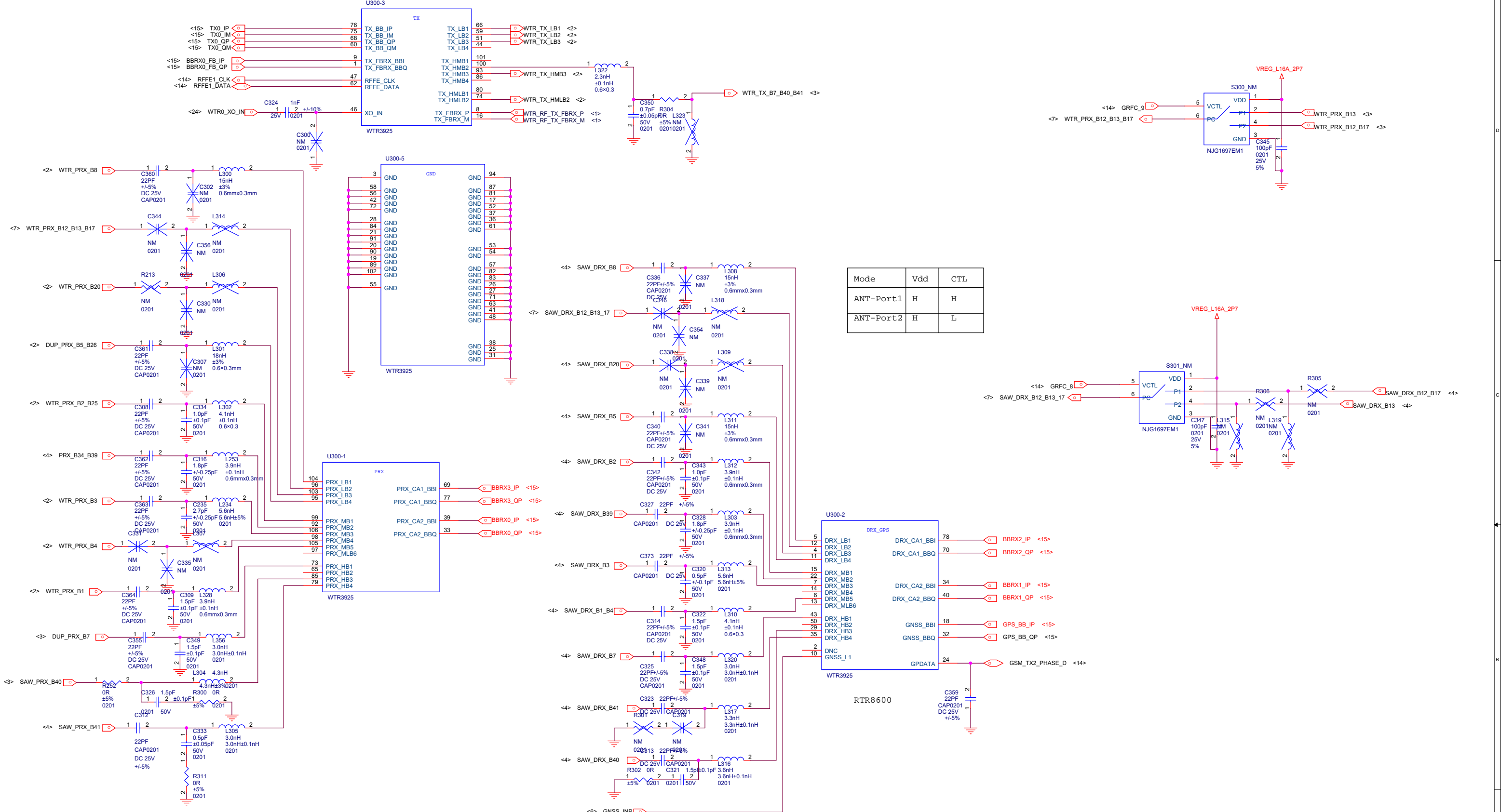




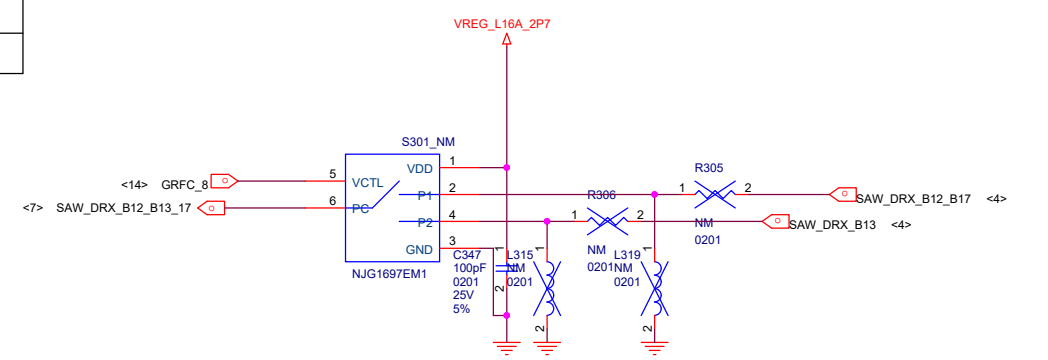
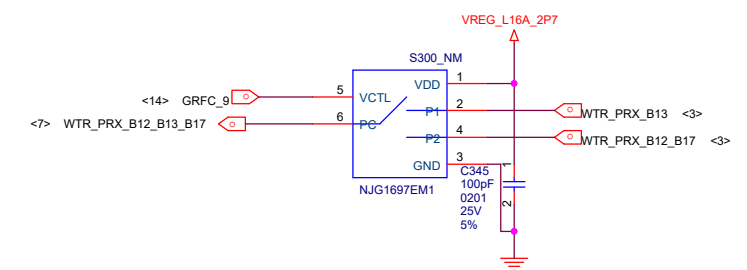
QFE3100

Title		
B7		
Size	Document Number	Rev
A3	QFE3100	P0
Date:	Wednesday, August 17, 2016	Sheet 5 of 35

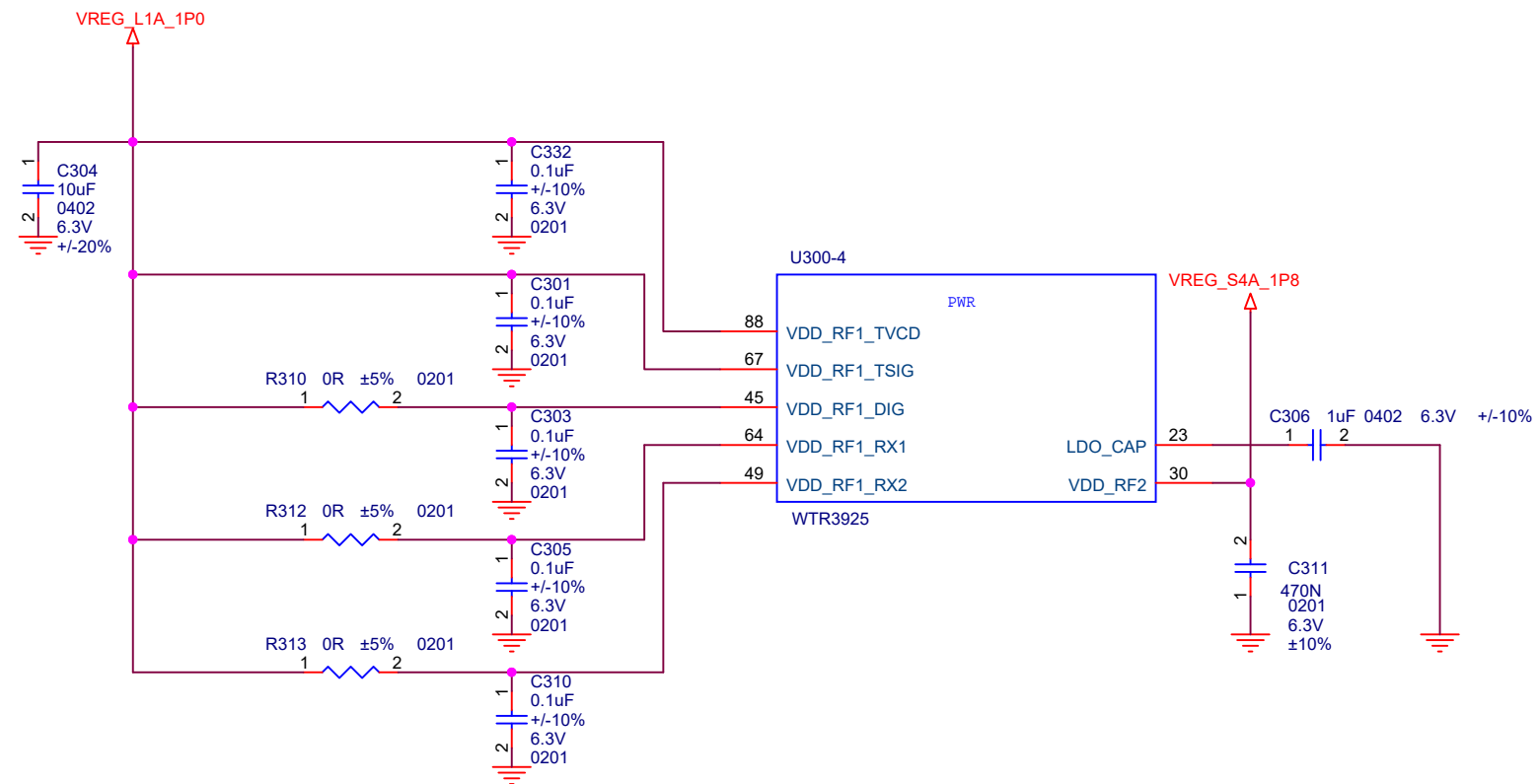




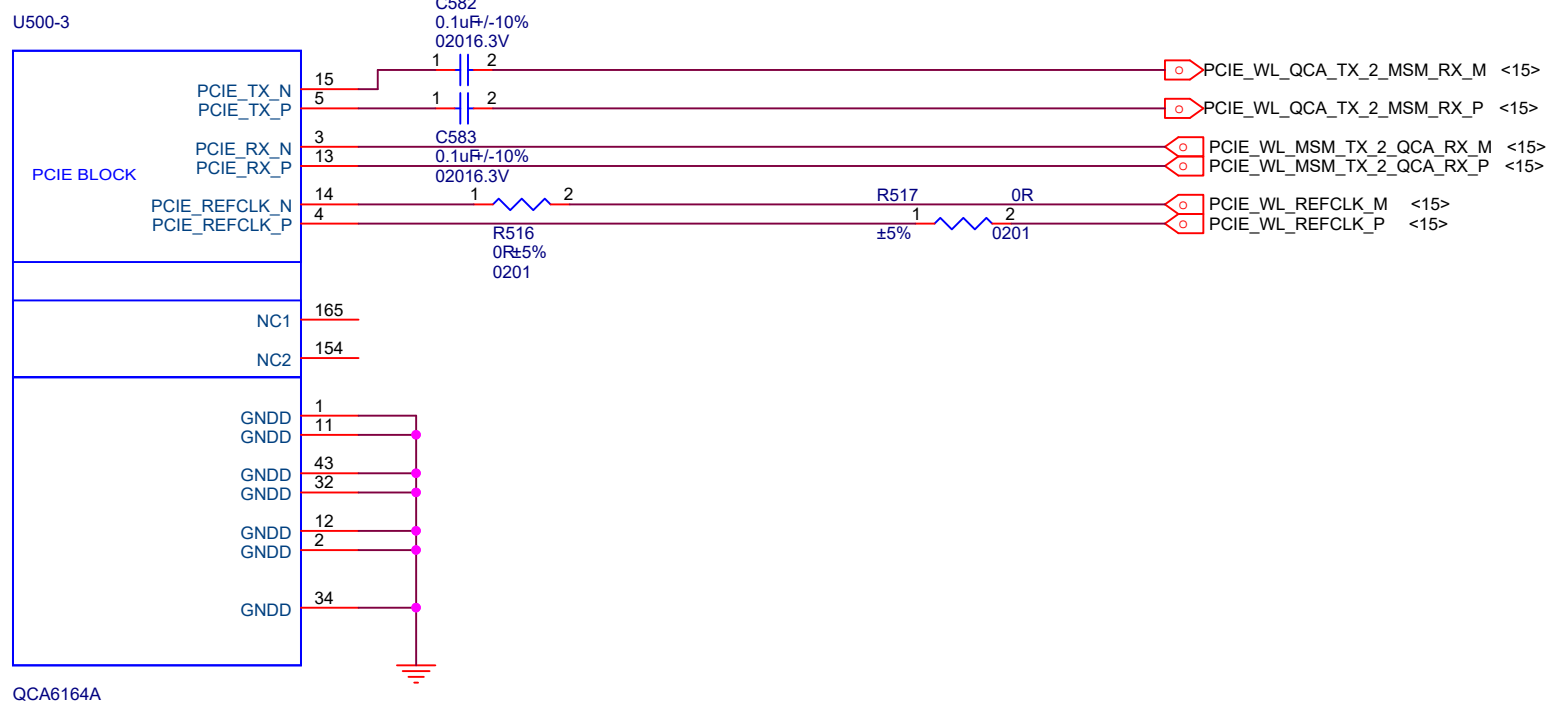
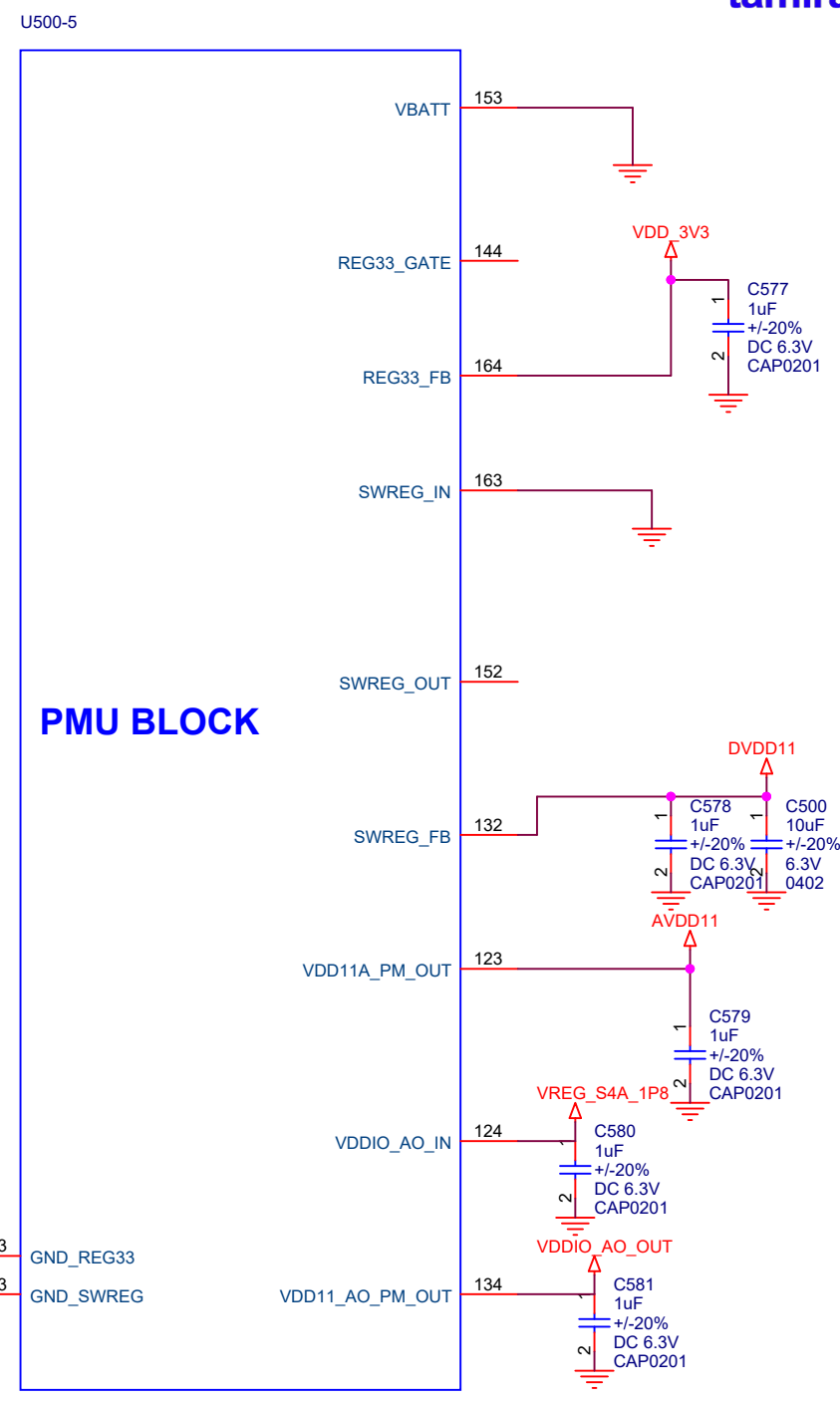
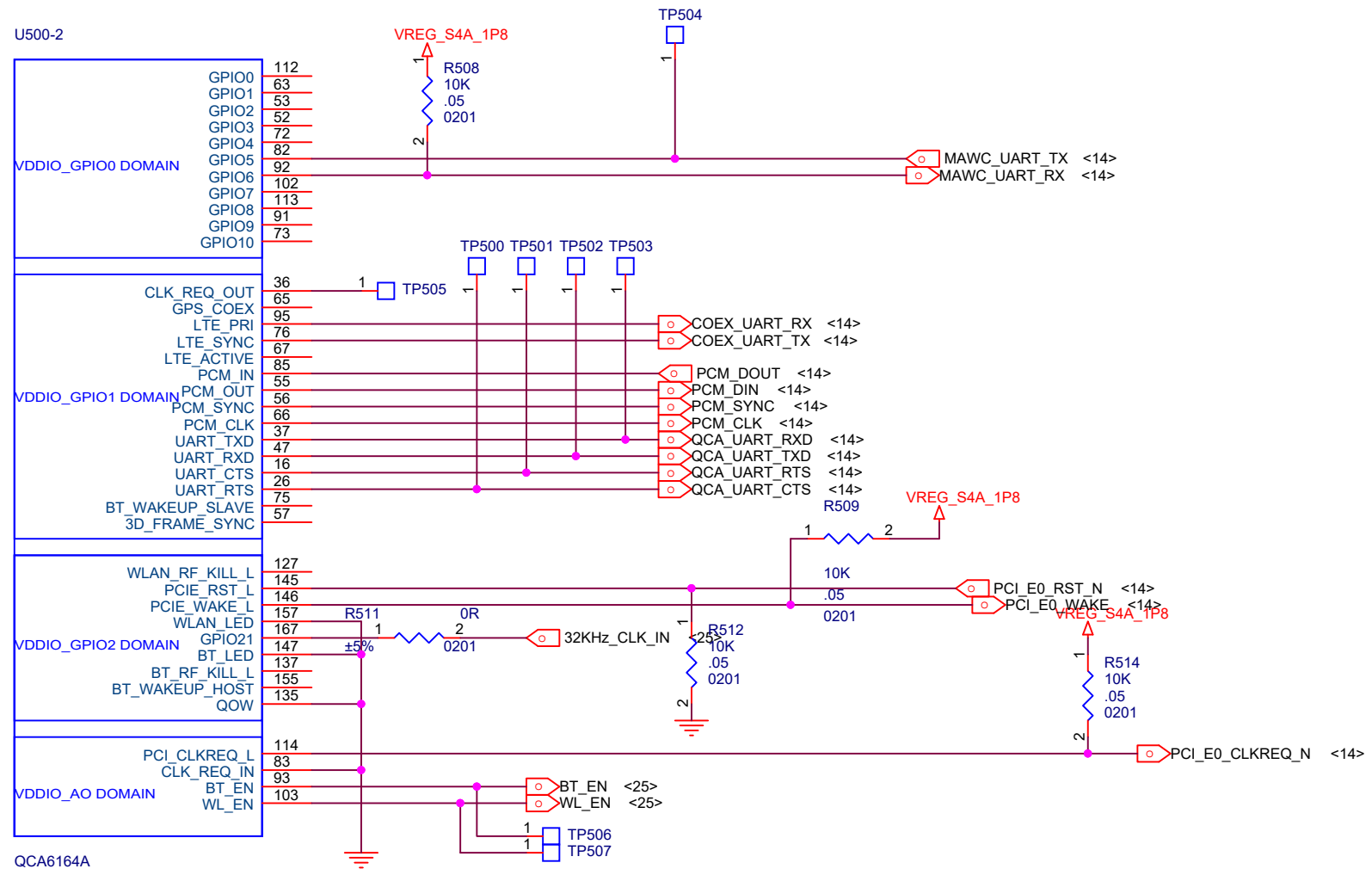
Mode	Vdd	CTL
ANT-Port1	H	H
ANT-Port2	H	L



WTR3925L		
Title	B7	
Size	Document Number	Rev
A2	WTR3925L	PO
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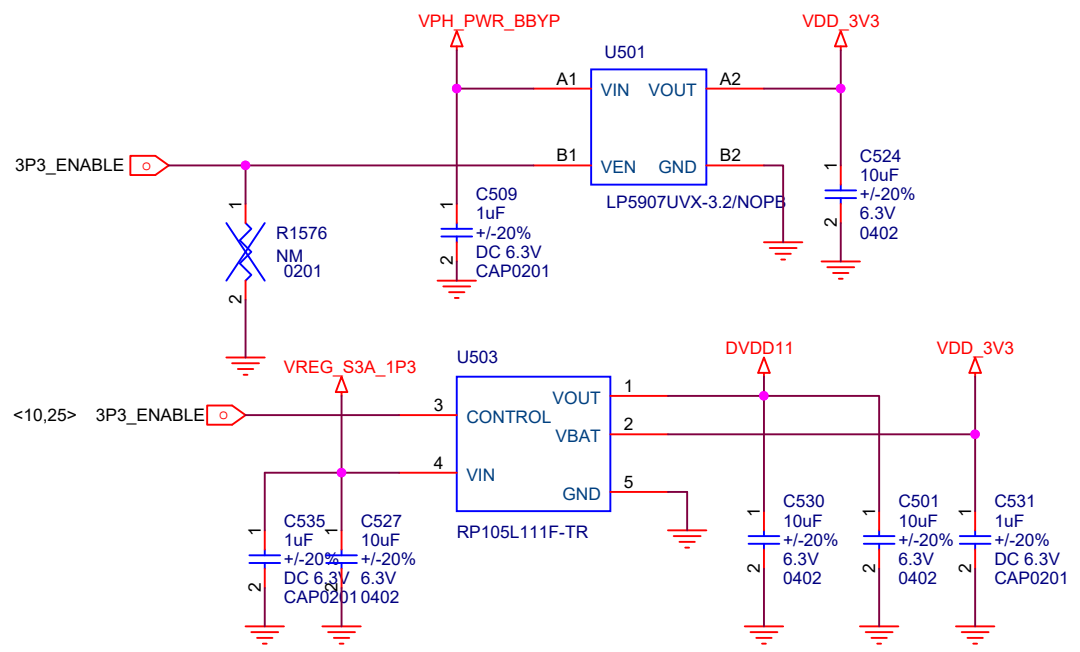
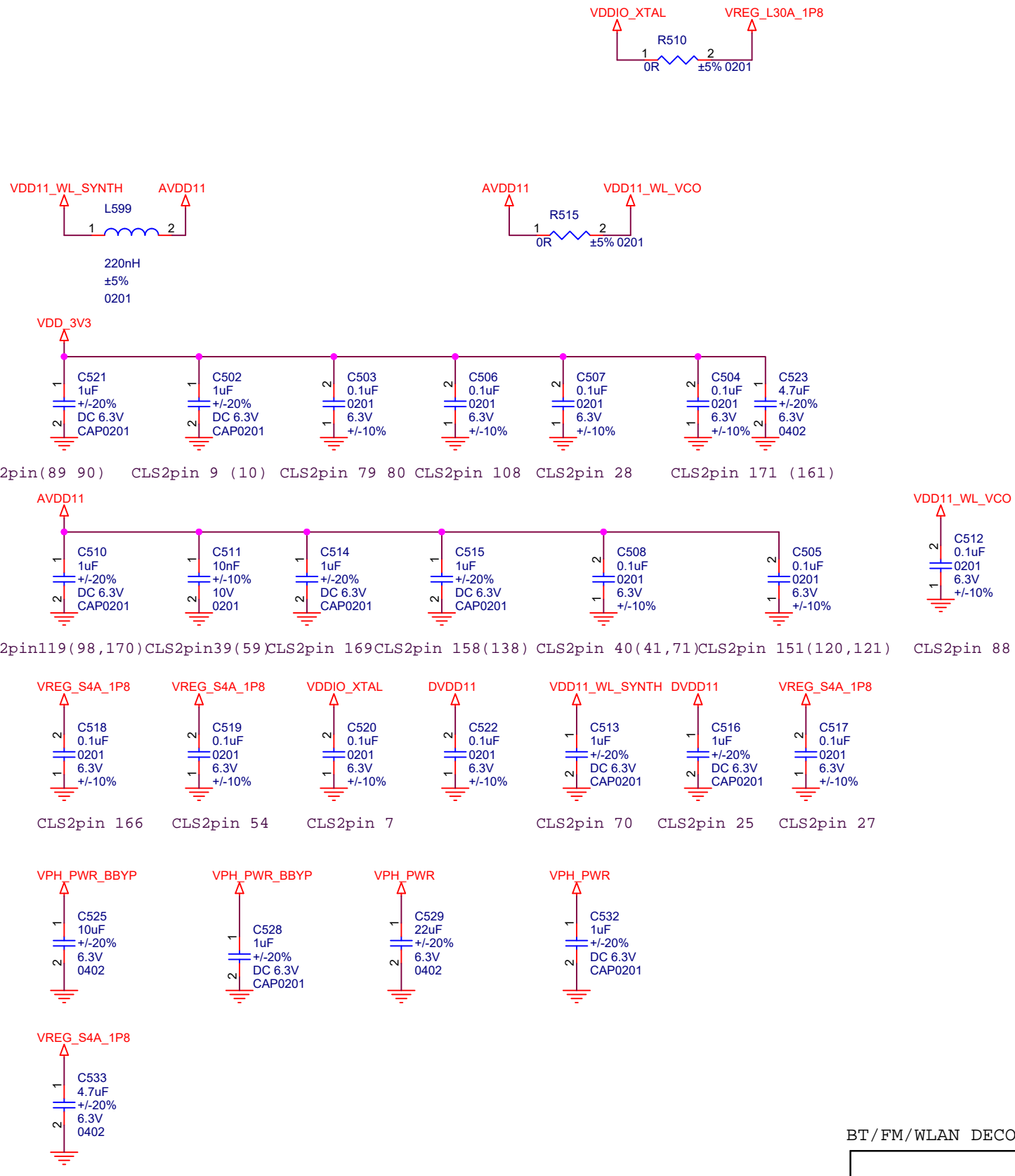
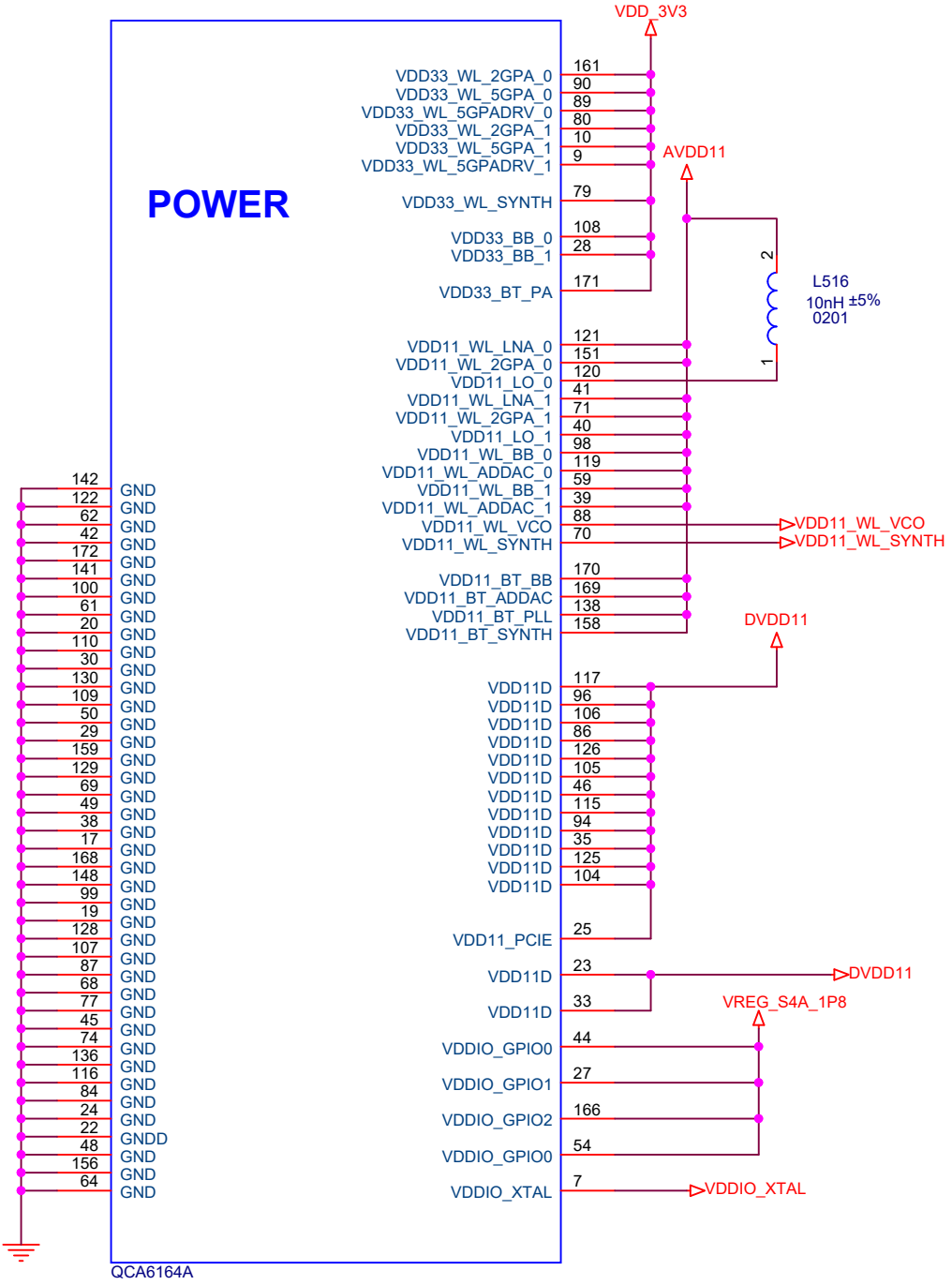


**WIFI INTERFACE**

Title		
B7		
Size	Document Number	Rev
A3	WIFI INTERFACE	P0
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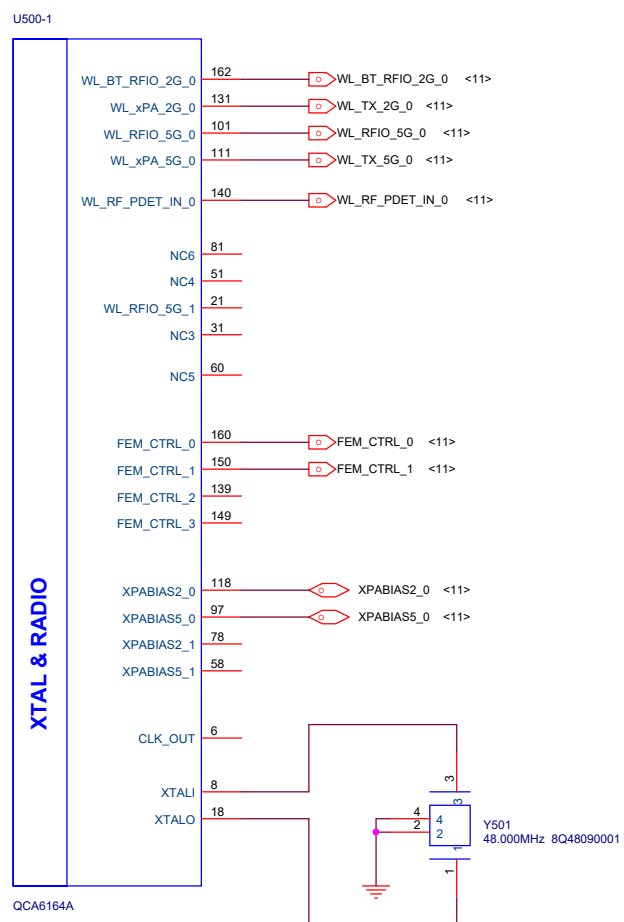
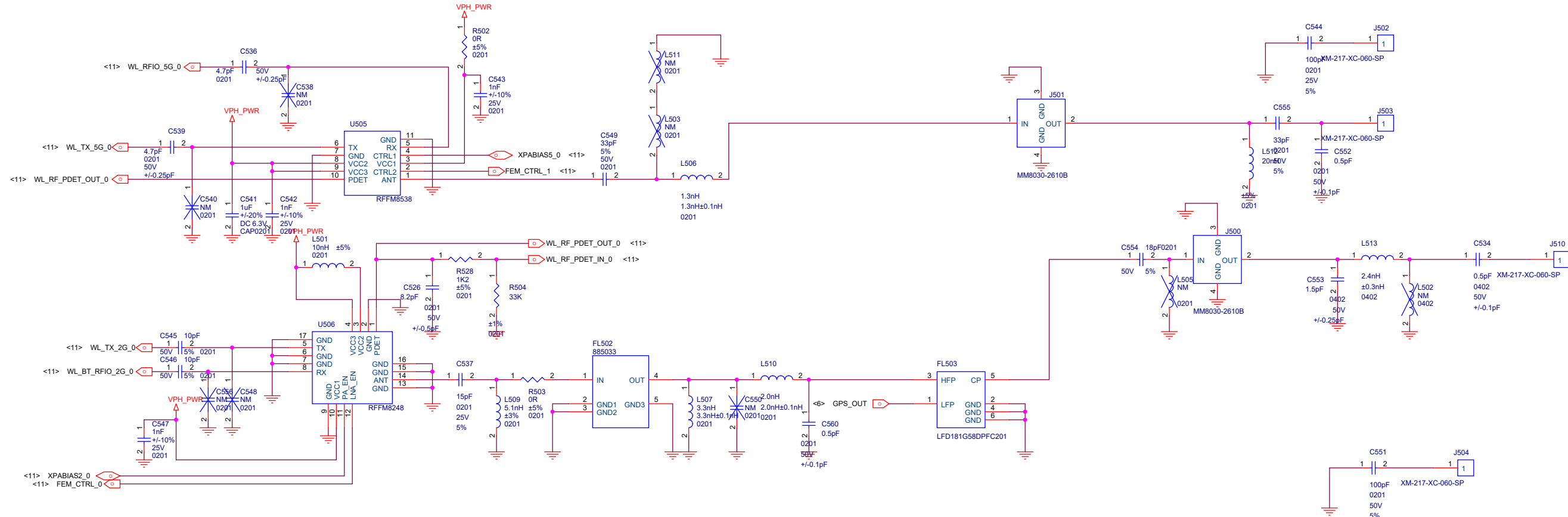
U500-4

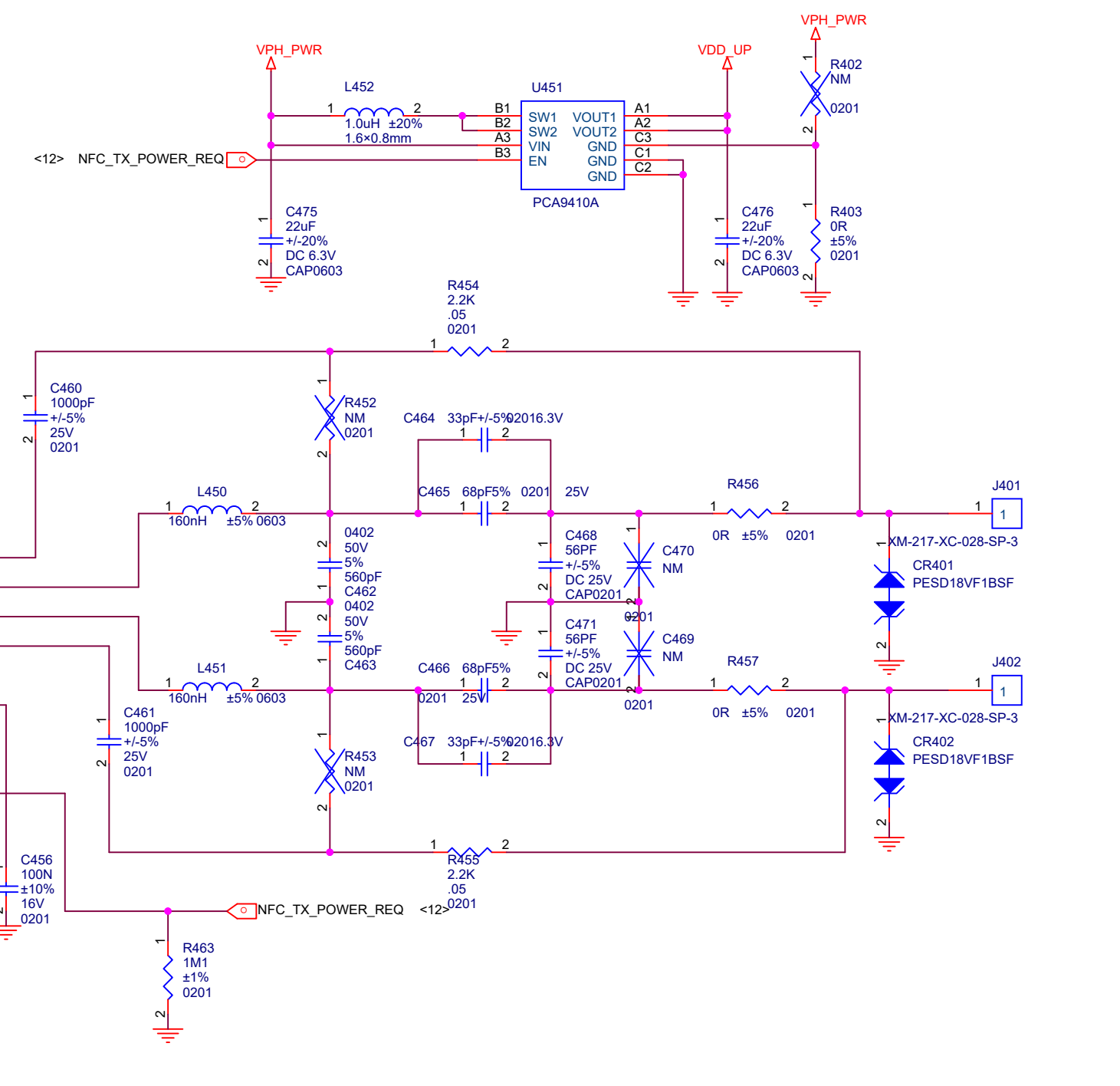
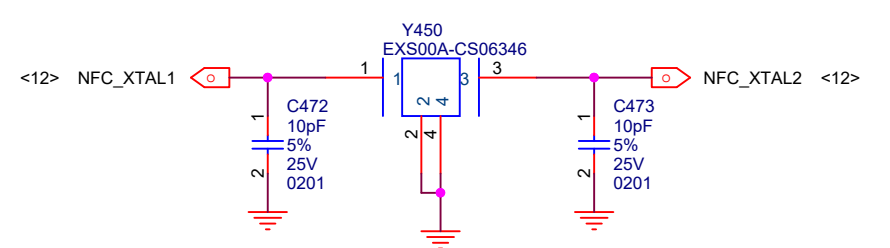
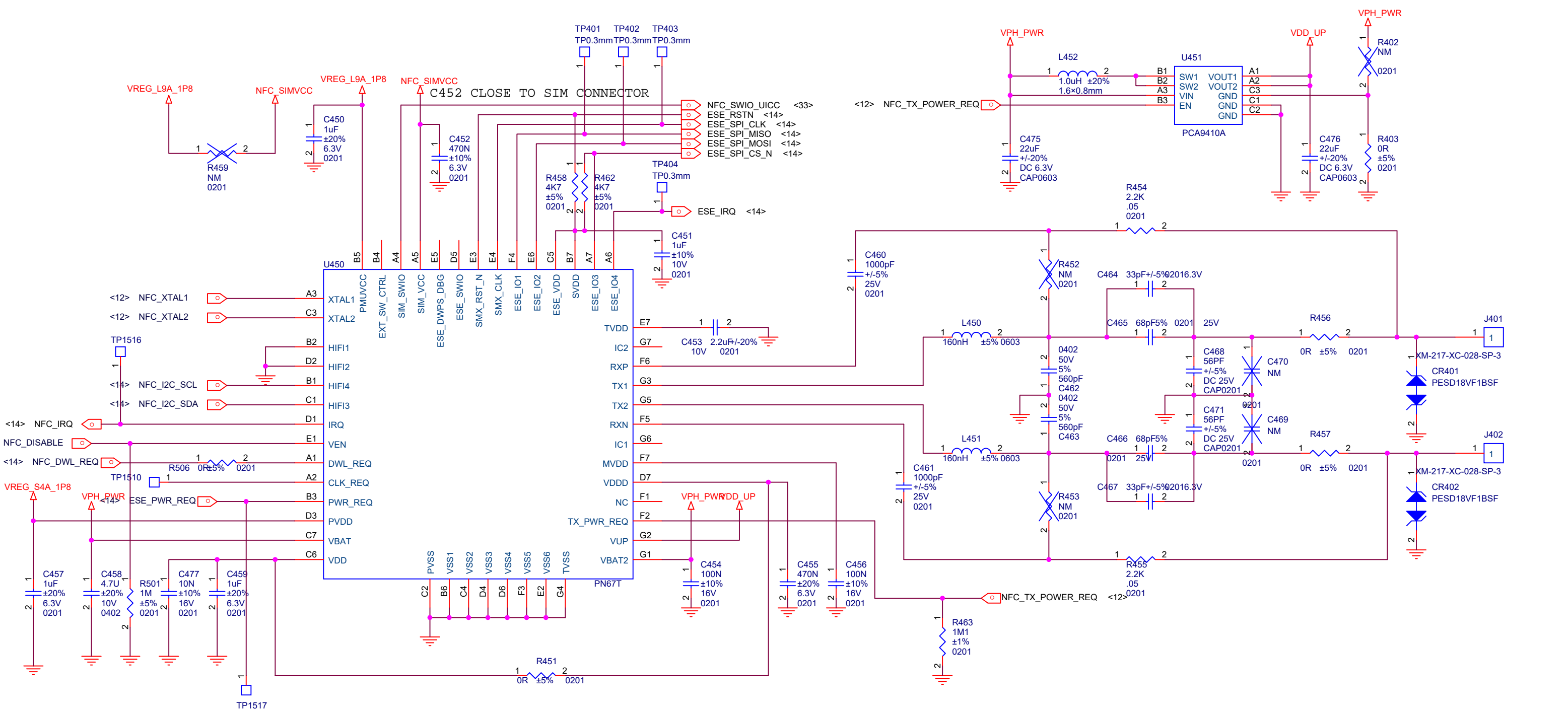
**POWER**

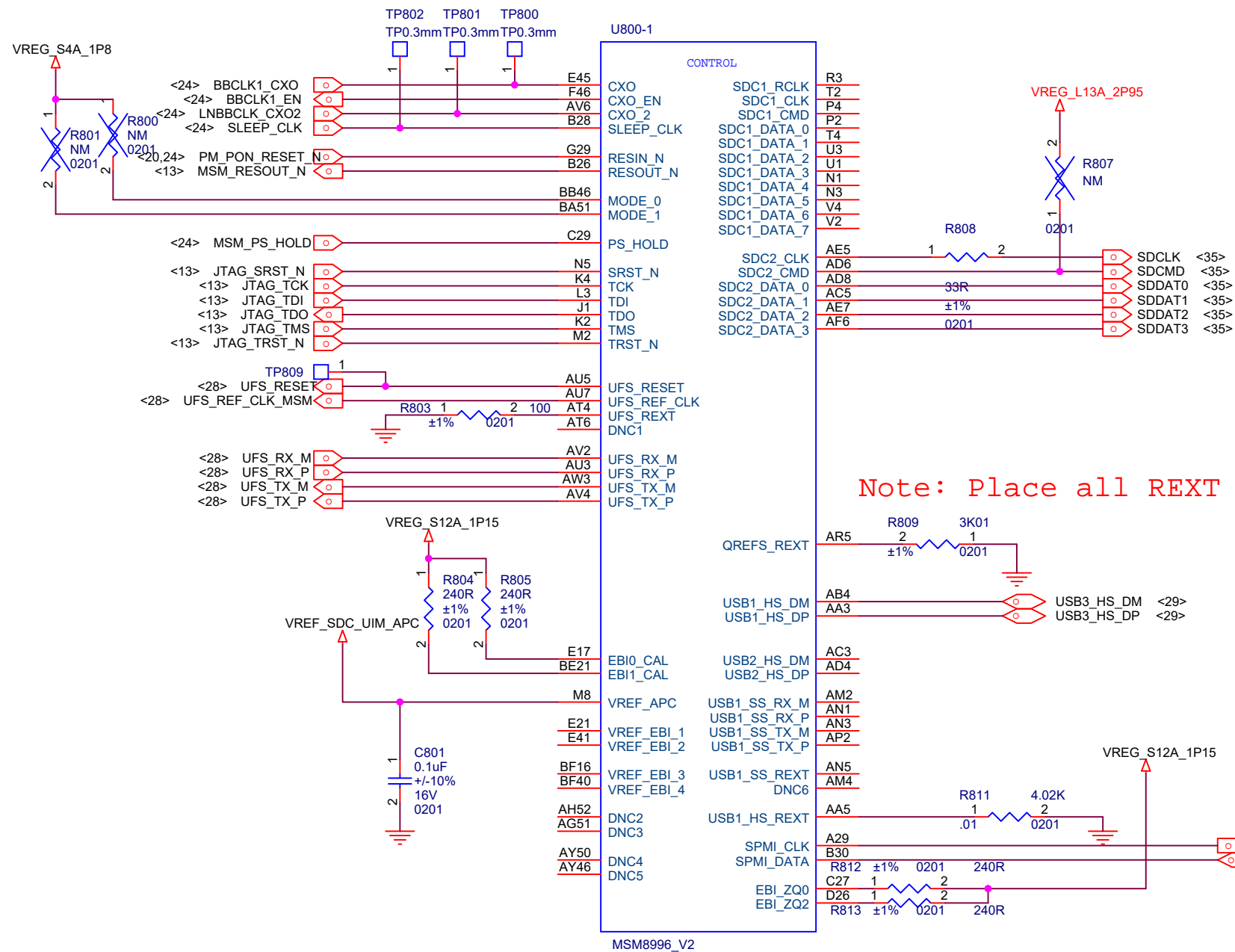


BT/FM/WLAN DECOUP

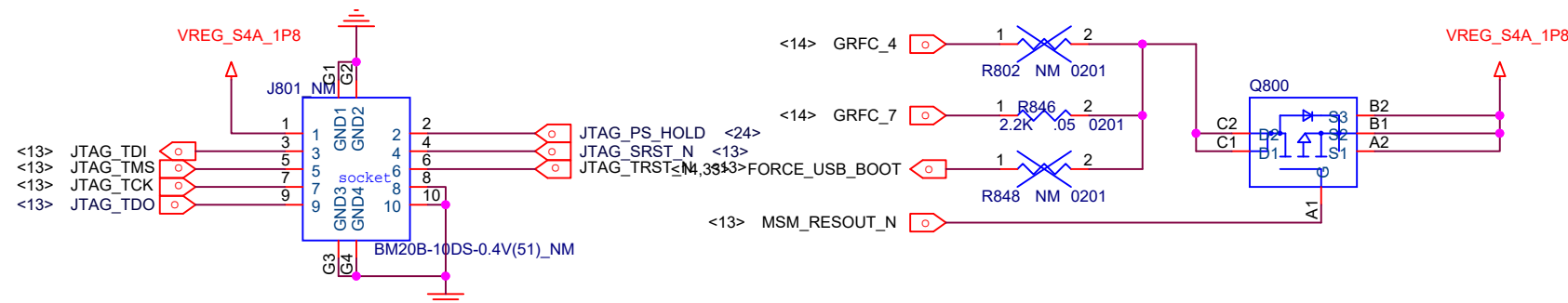
Title		
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Size	Document Number	Rev
A3	BT/WLAN DECOUP	P0
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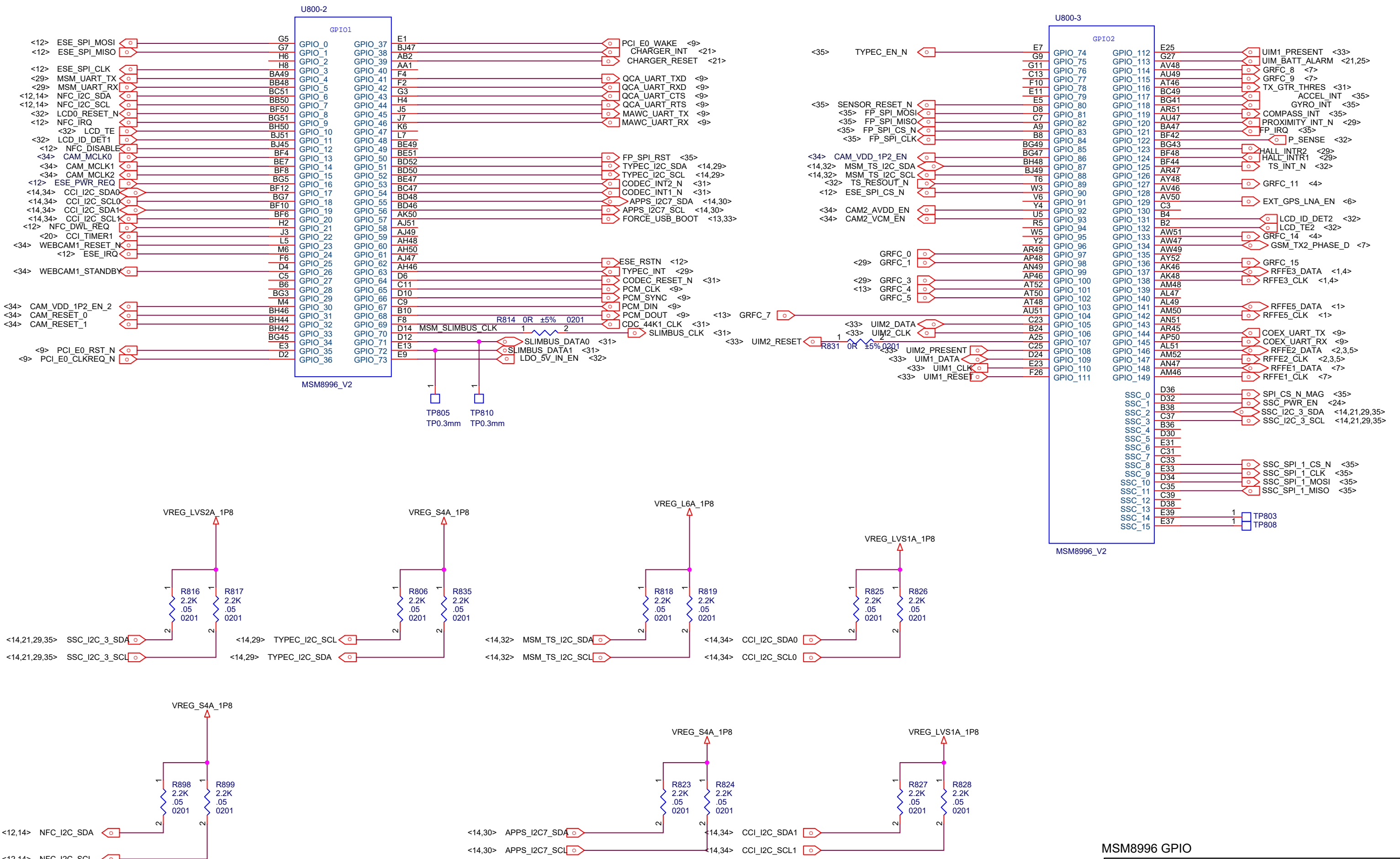


Note: Place all REXT resistors close to MSM

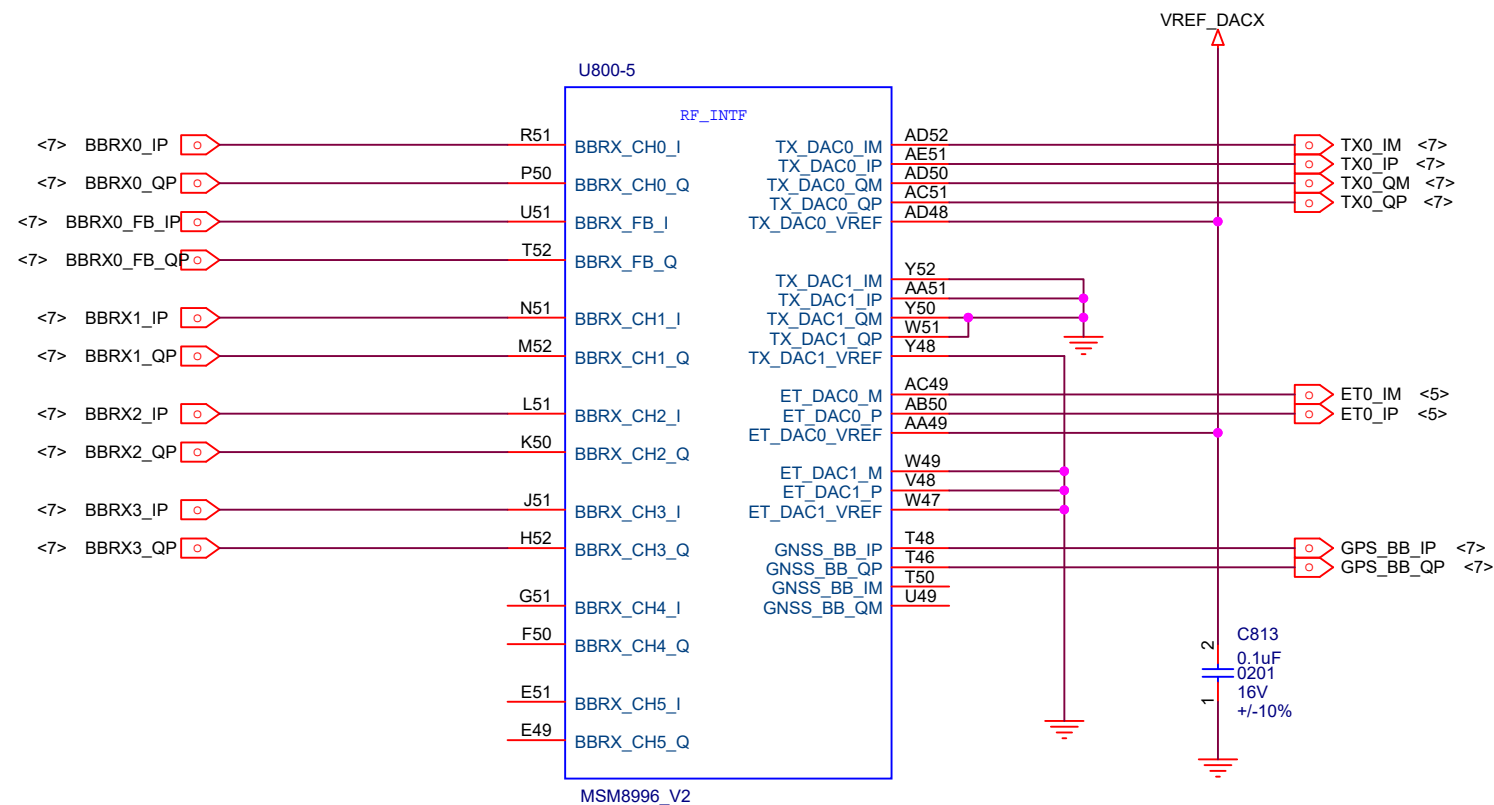
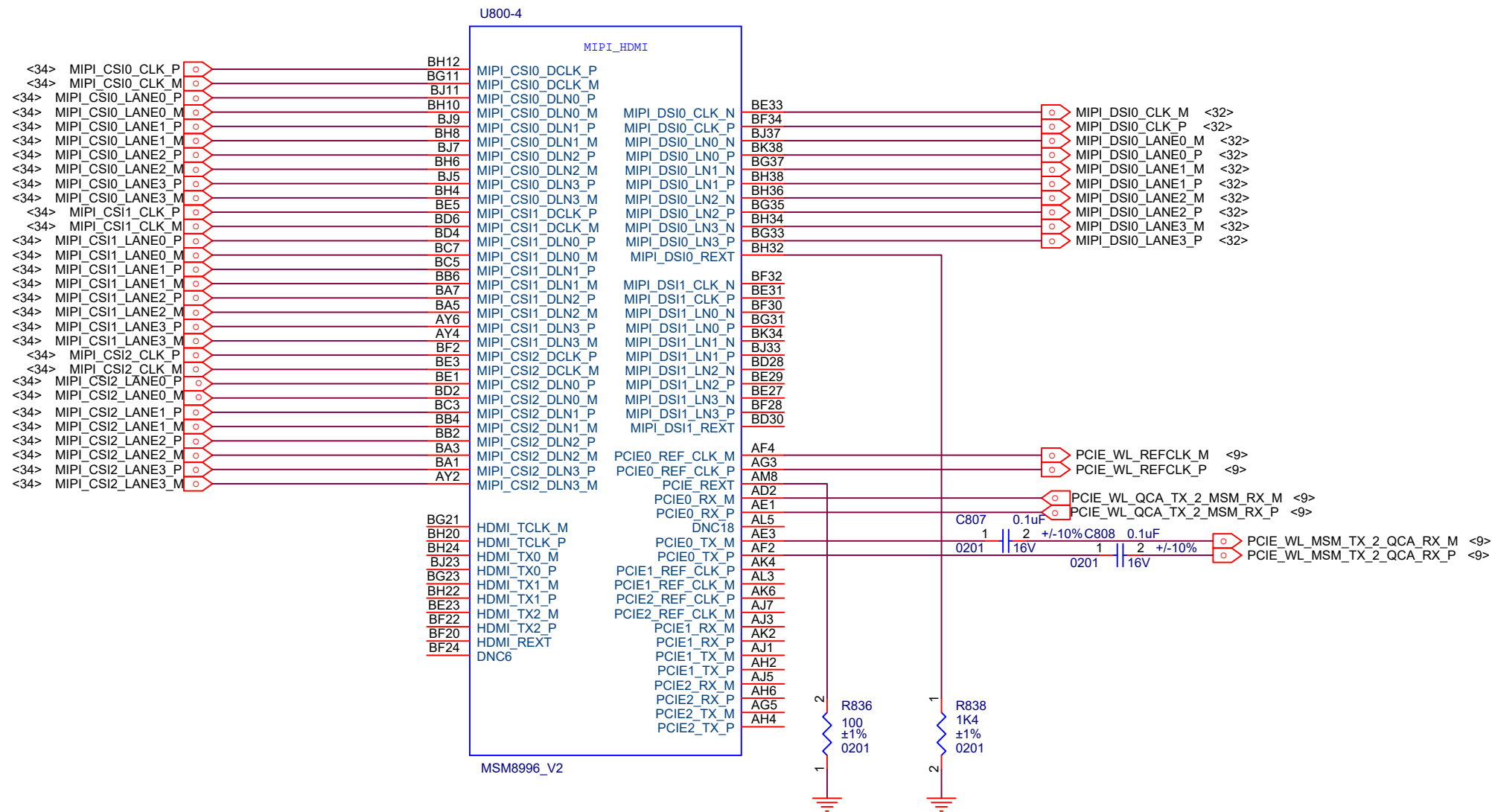


MSM8996 CONTROL

Title		
B7		
Size	Document Number	Rev
A3	MSM8996 CONTROL	P0
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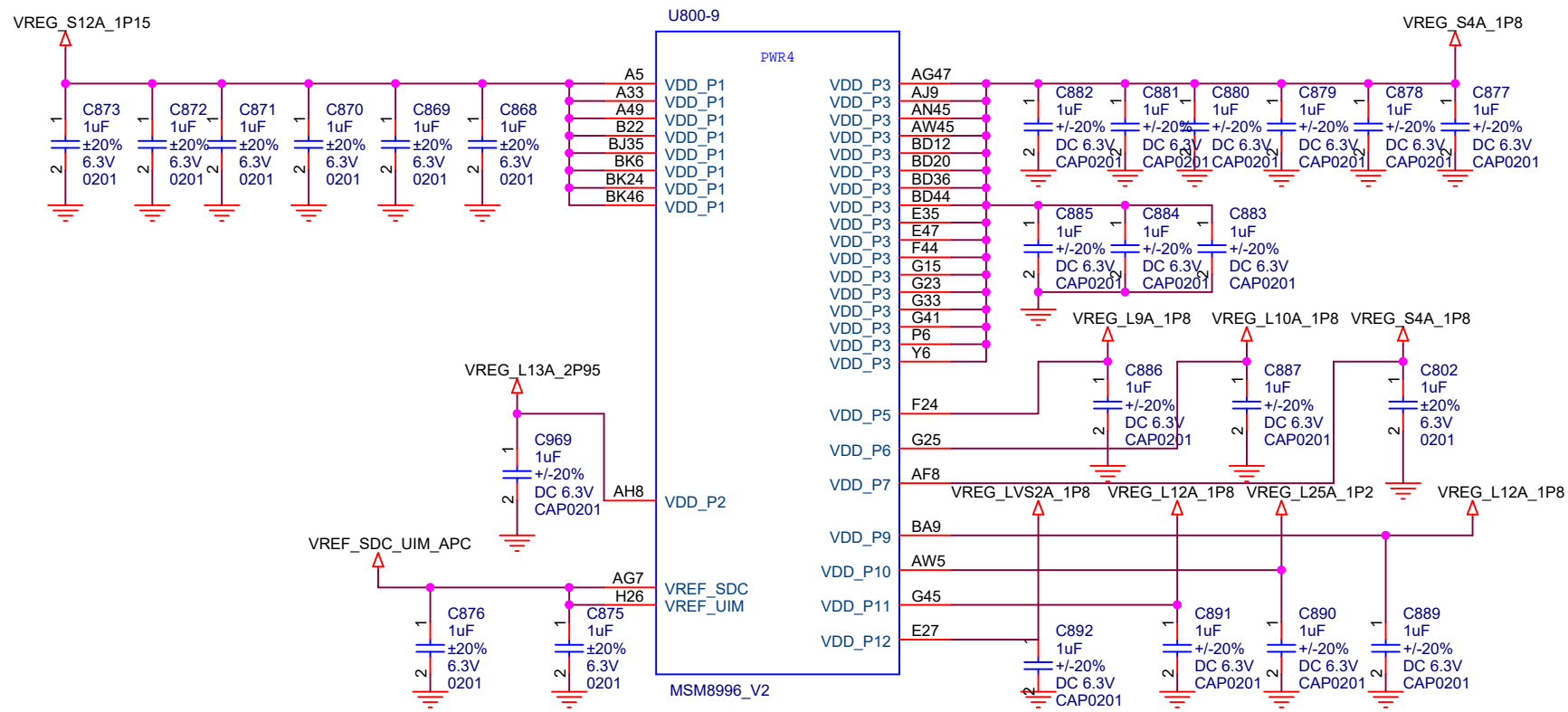
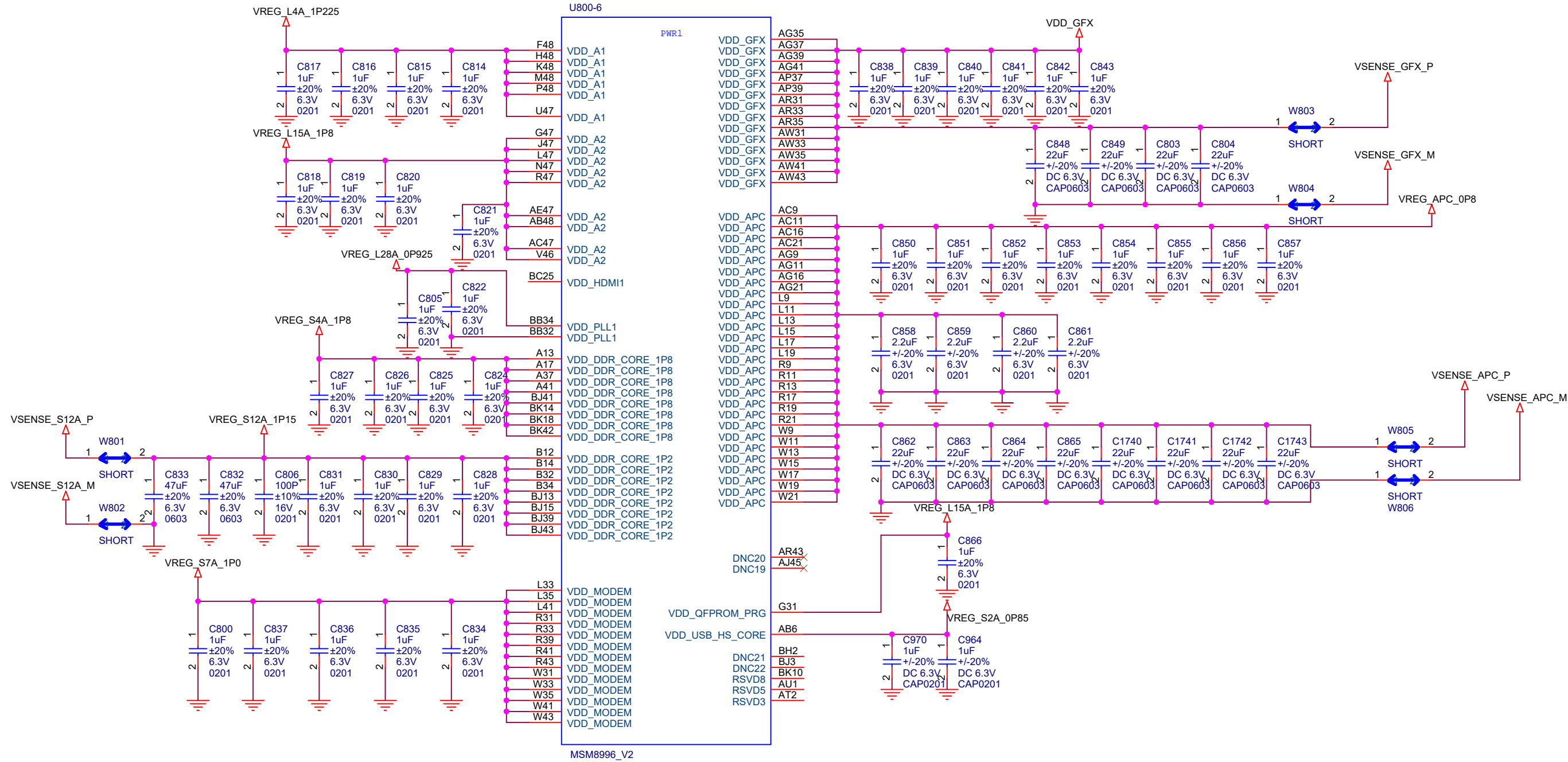
MSM8996 GPIO		
Title B7		
Size A3	Document Number MSM8996 GPIO	Rev P0
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**MSM8996 MIPI**

Title			B7
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A3	MSM8996 MIPI	P0	
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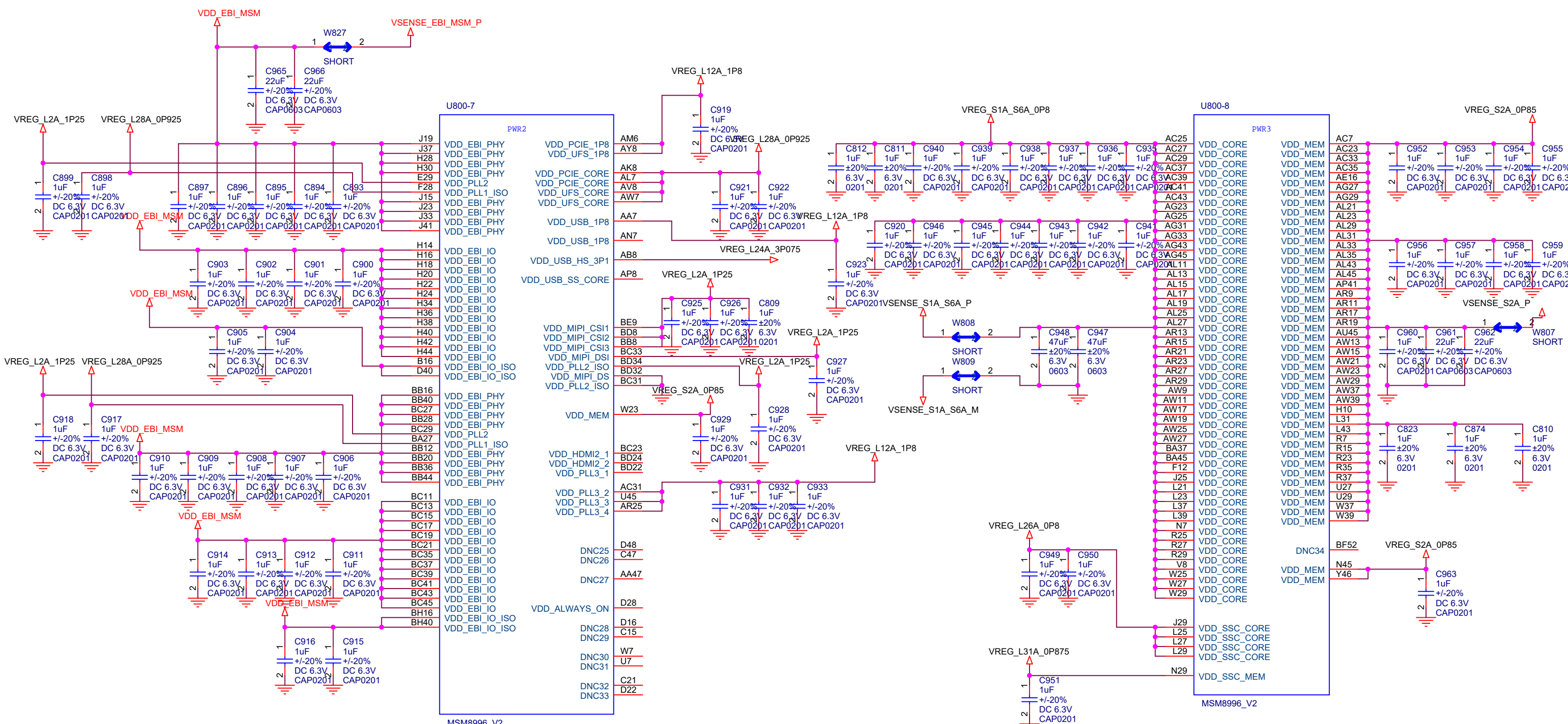


**MSM8996 PWR1**

Title		B7
Size	Document Number	Rev
A3	MSM8996 PWR1	P0
Date:	Wednesday, August 17, 2016	Sheet 16 of 35

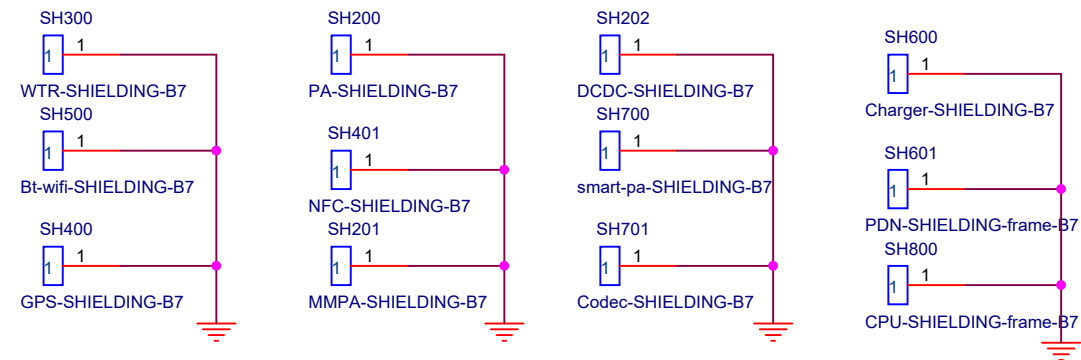
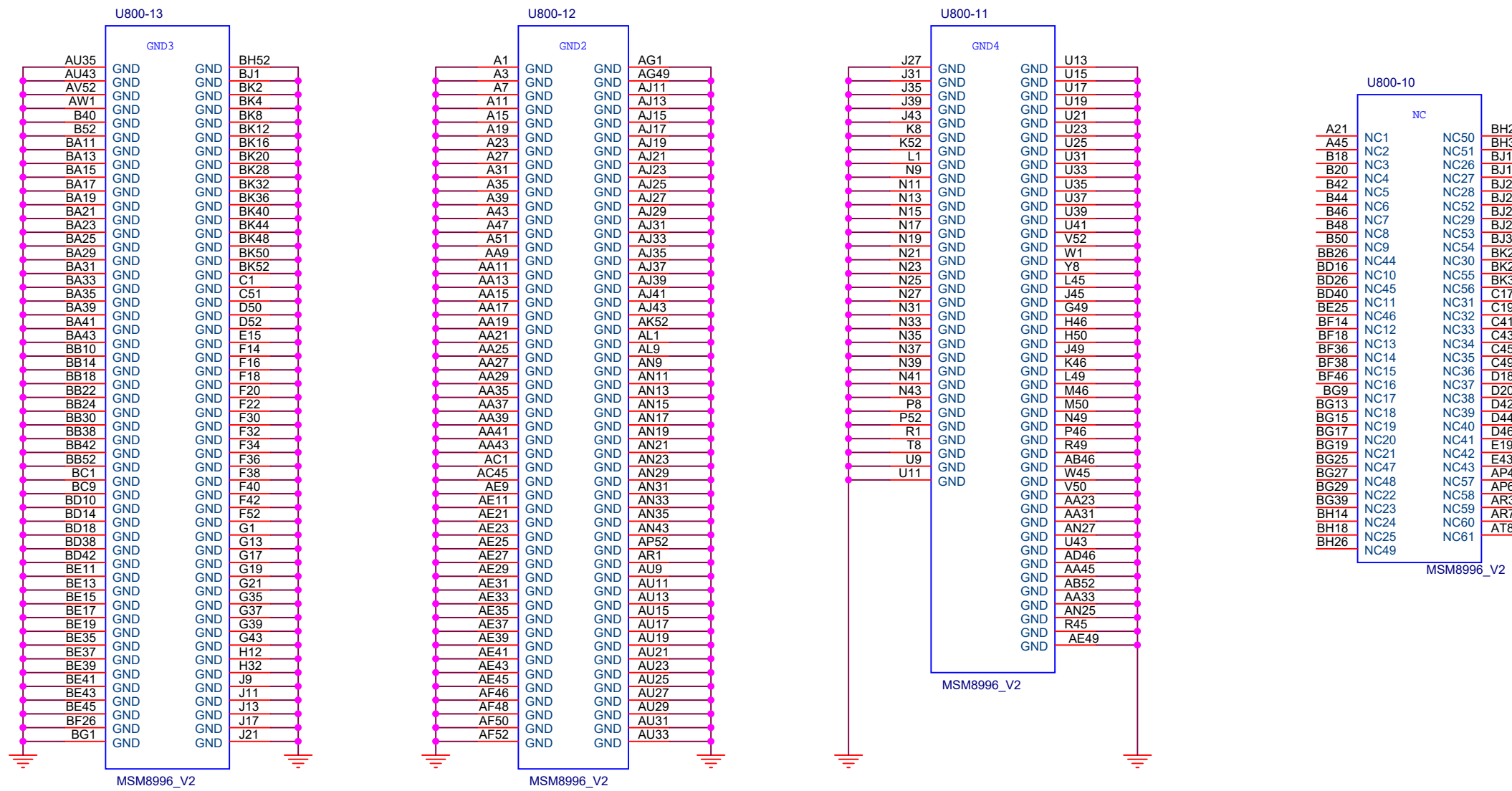






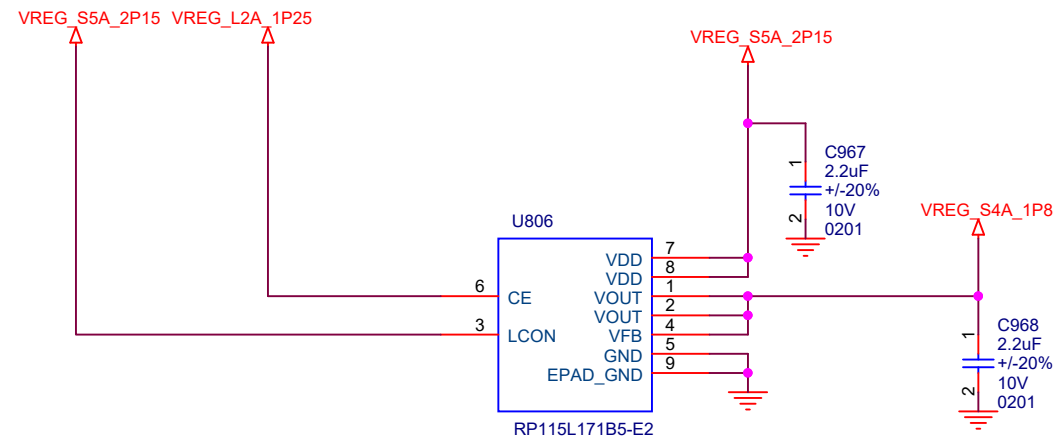
MSM8996 PWR2

Title			B7
Size	Document Number	MSM 8996 PWR2	
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Rev	P0		



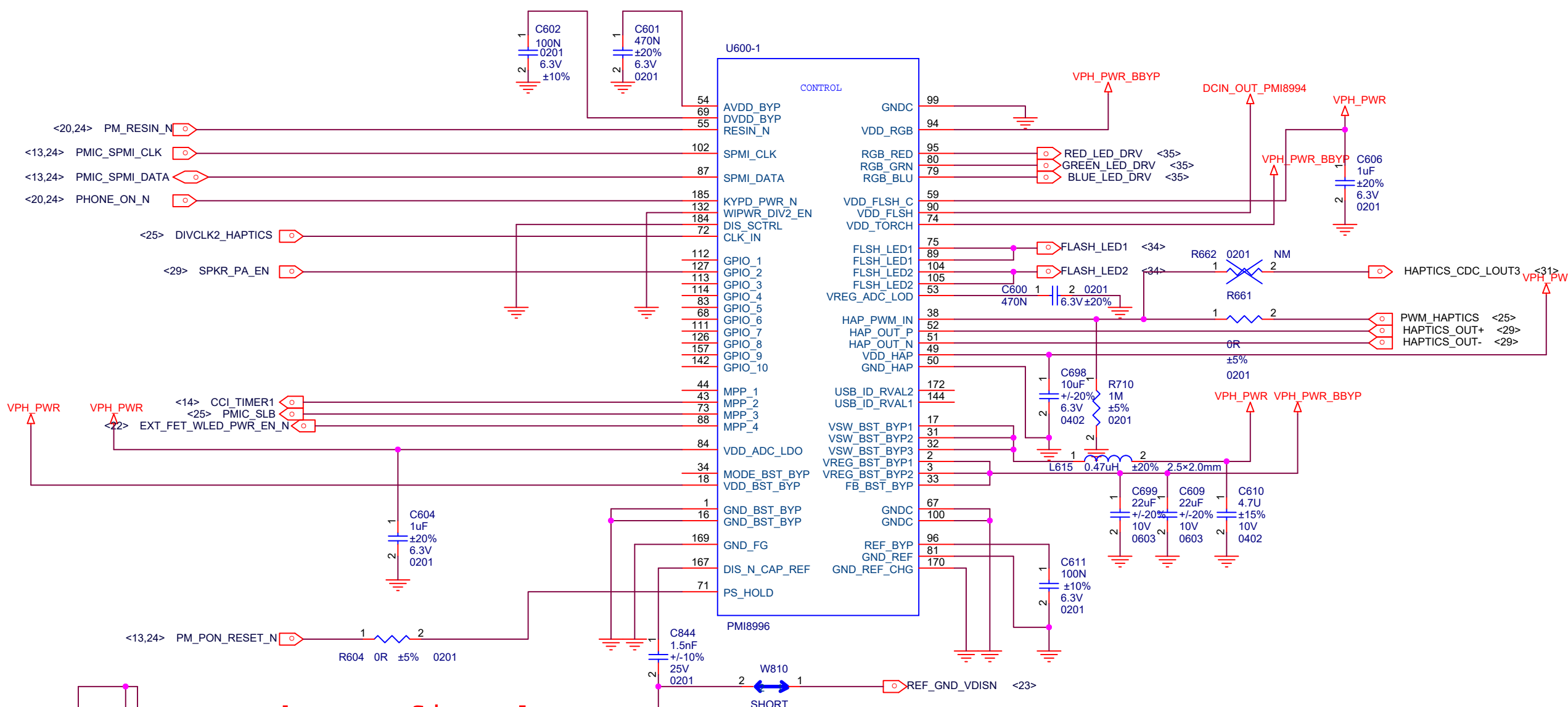
MSM8996 GND

Title		
B7		
Size	Document Number	Rev
A3	MSM8996 GND	P0
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MSM8996 LPDDR REGULATOR

Title		
B7		
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A3	MSM8996 LPDDR REGULATOR	P0
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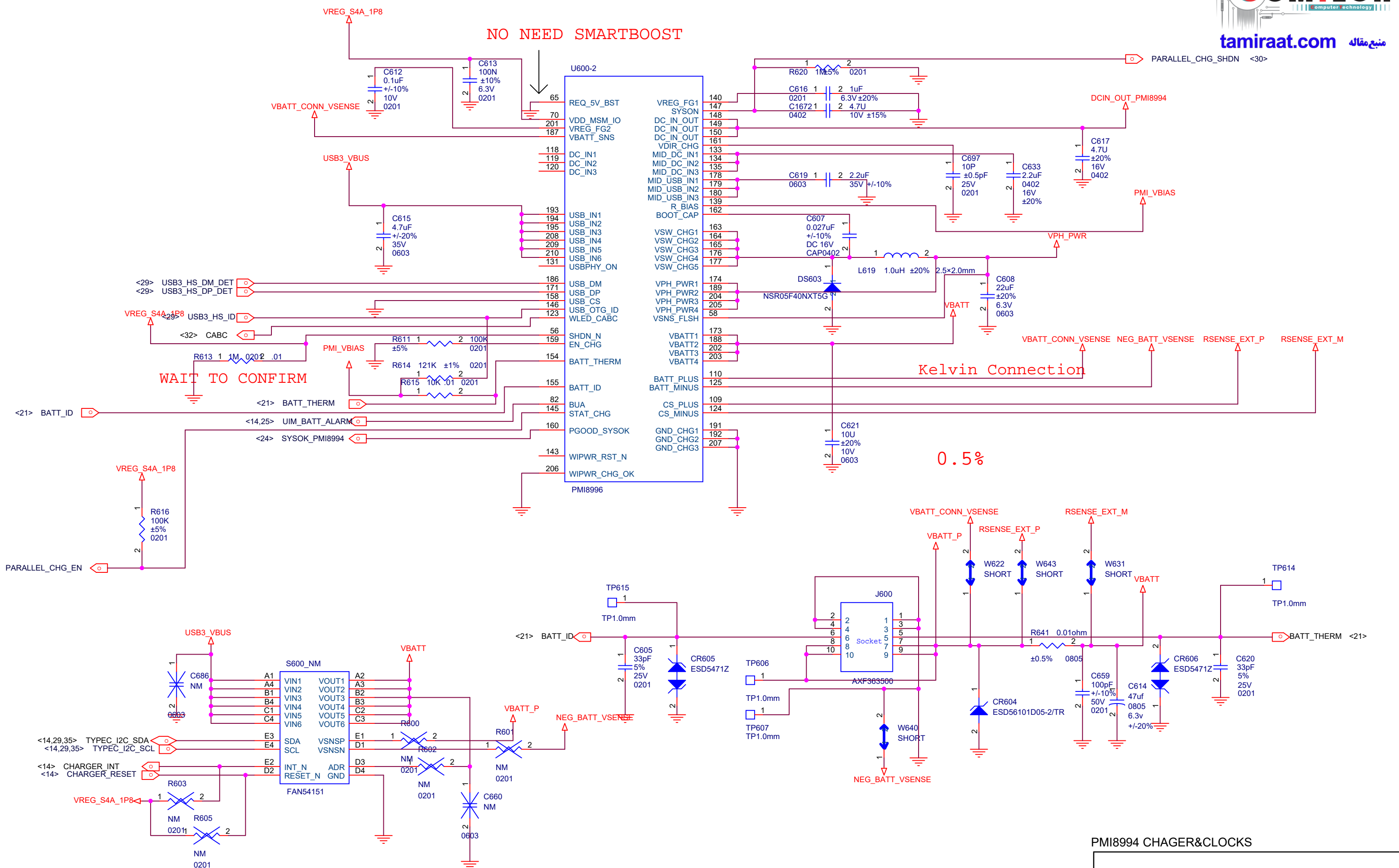


To be confirmed!



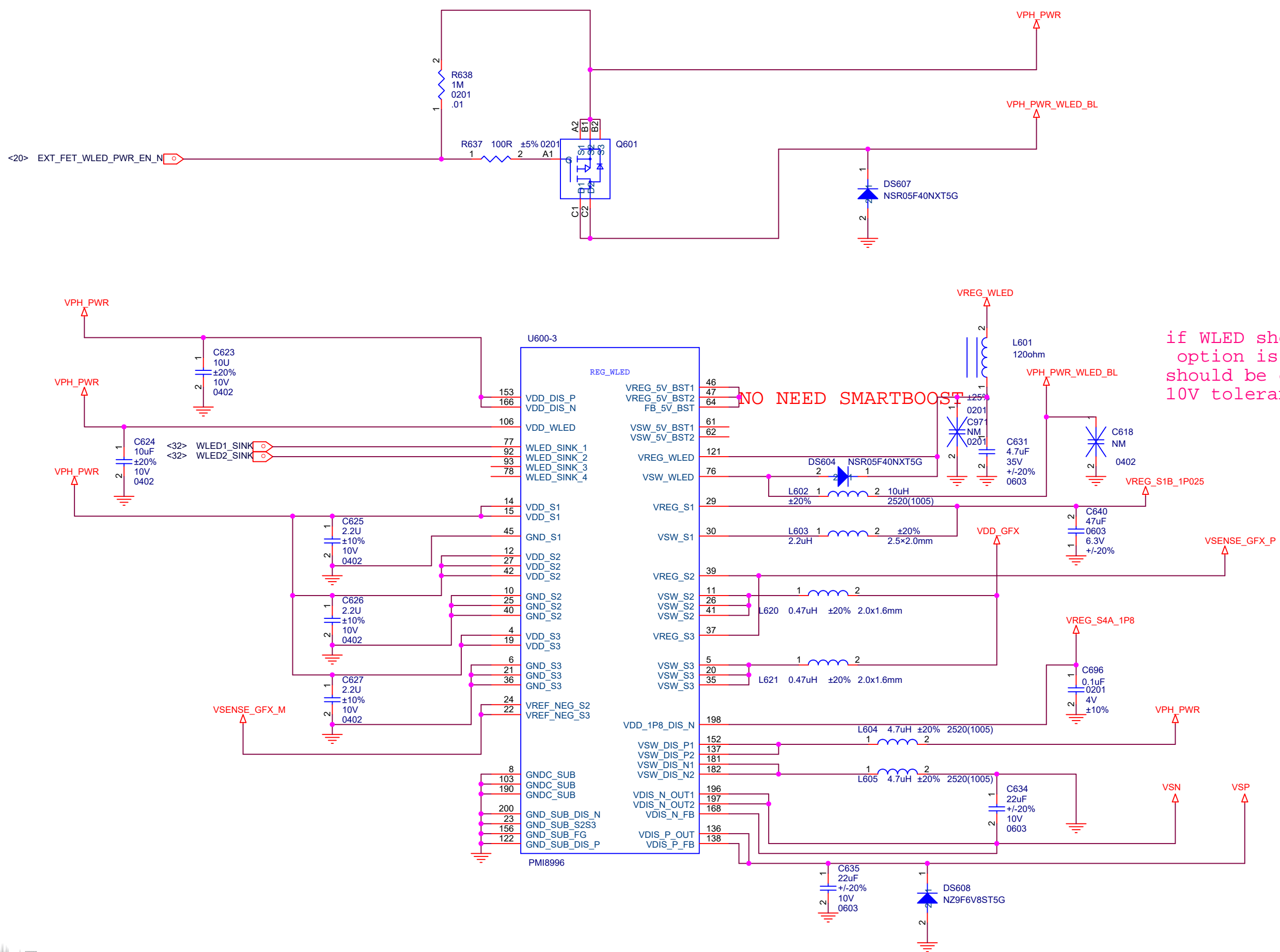
PMI8996 CONTROL

Title		
B7		
Size	Document Number	Rev
A3	PMI8996 CONTROL	P0
Date:	Wednesday, August 17, 2016	Sheet 20 of 35



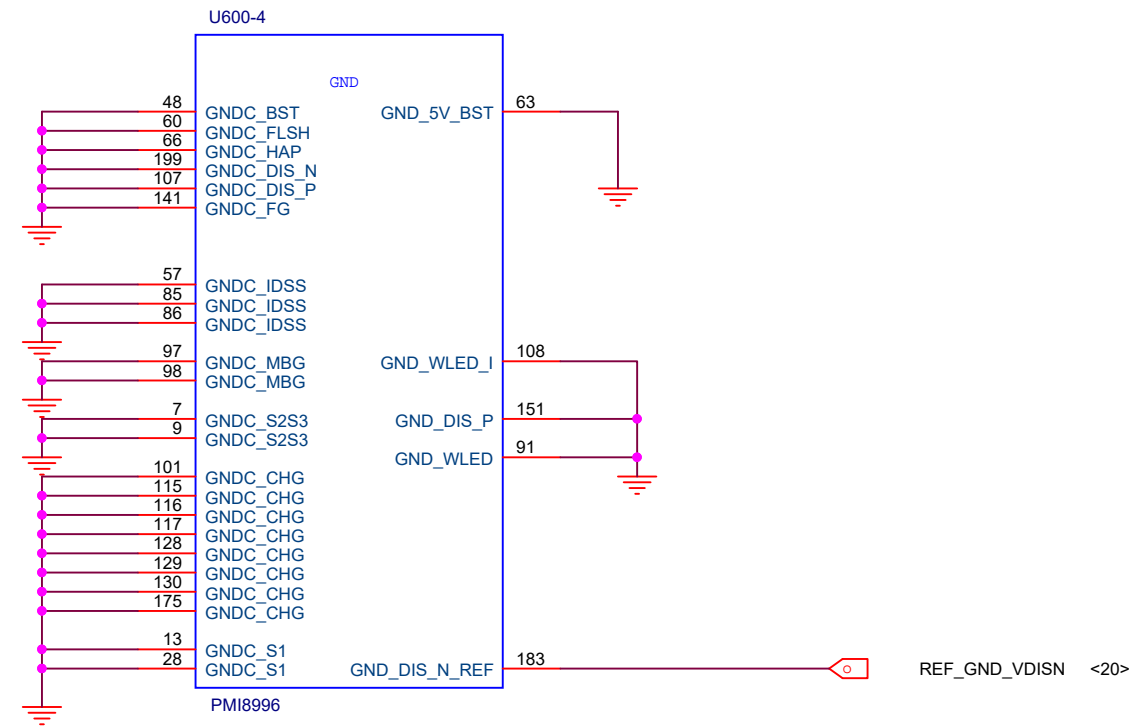
PM18996 CHAGER&CLOCKS

Title		B7
Size	Document Number	Rev
A3	PM18996 CHARGE&cCLOCKS	P0
Date:	Wednesday, August 17, 2016	Sheet 21 of 35

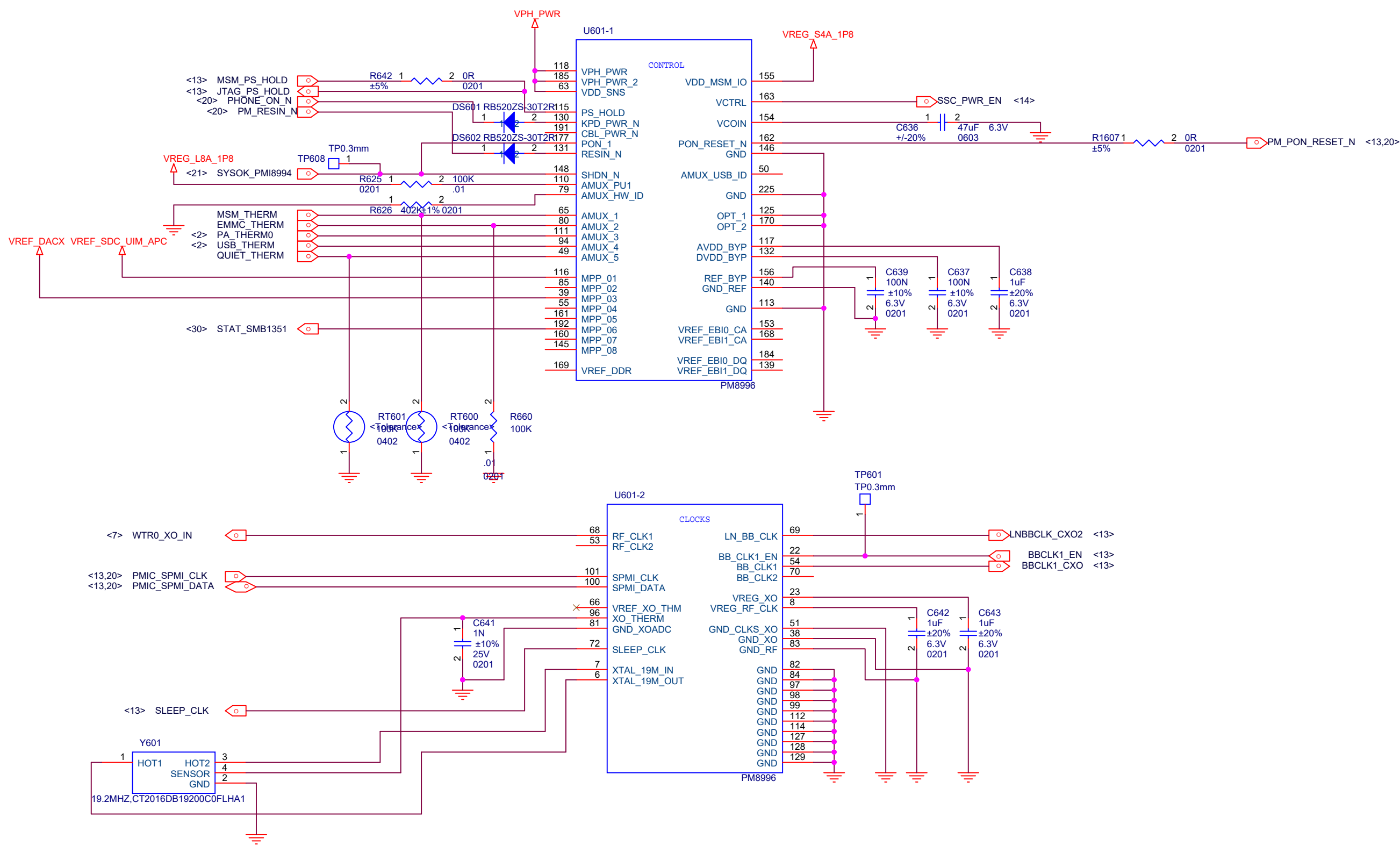


NO NEED SMARTBOOST

if WLED short circuit protection option is not used, C1670 should be changed to 10uF, 10V tolerance capacitor



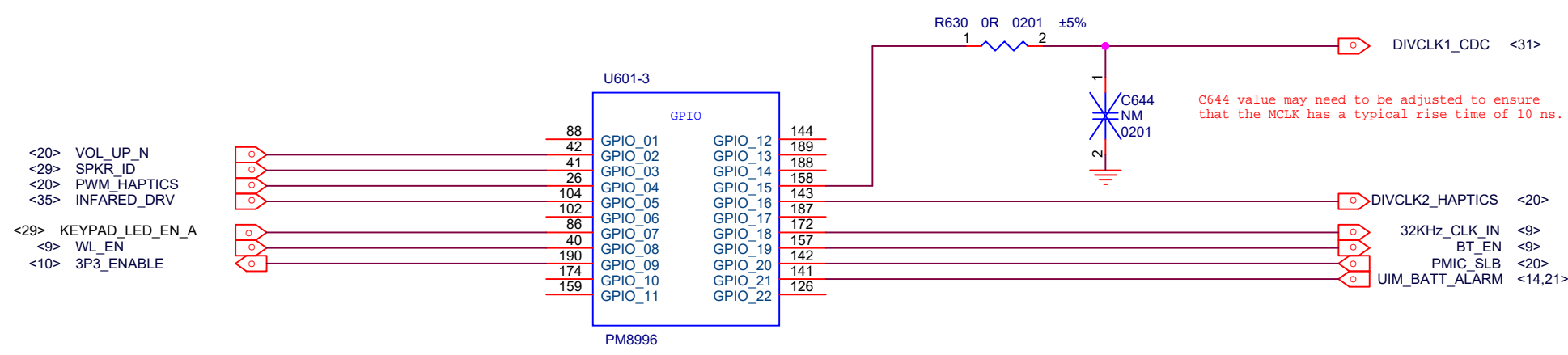
CAD NOTE: Connect to pin183 then GND with single via



PM8996 CONTROL

Title		
B7		
Size	Document Number	Rev
A3	PM8996 CONTROL	P0
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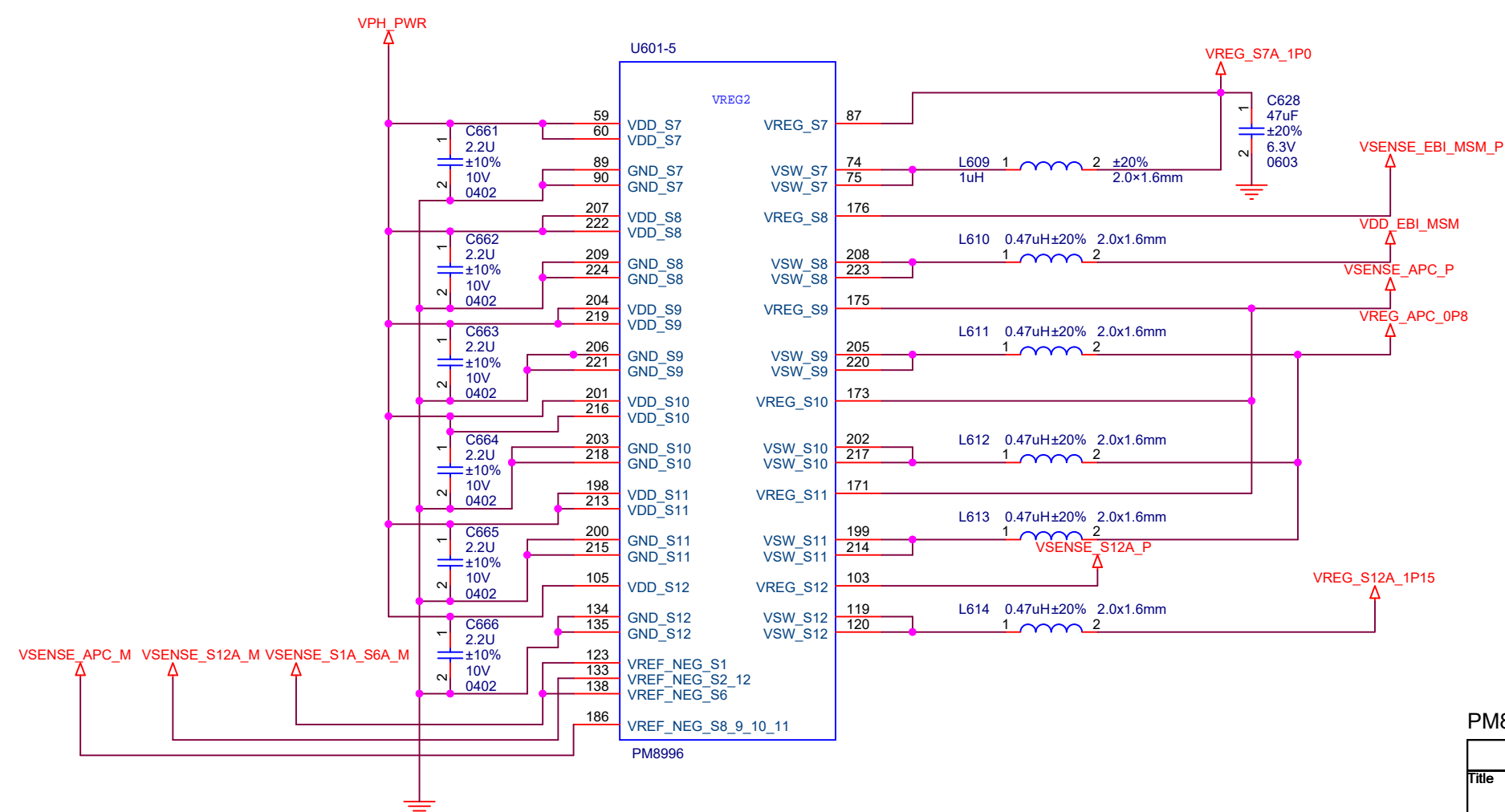
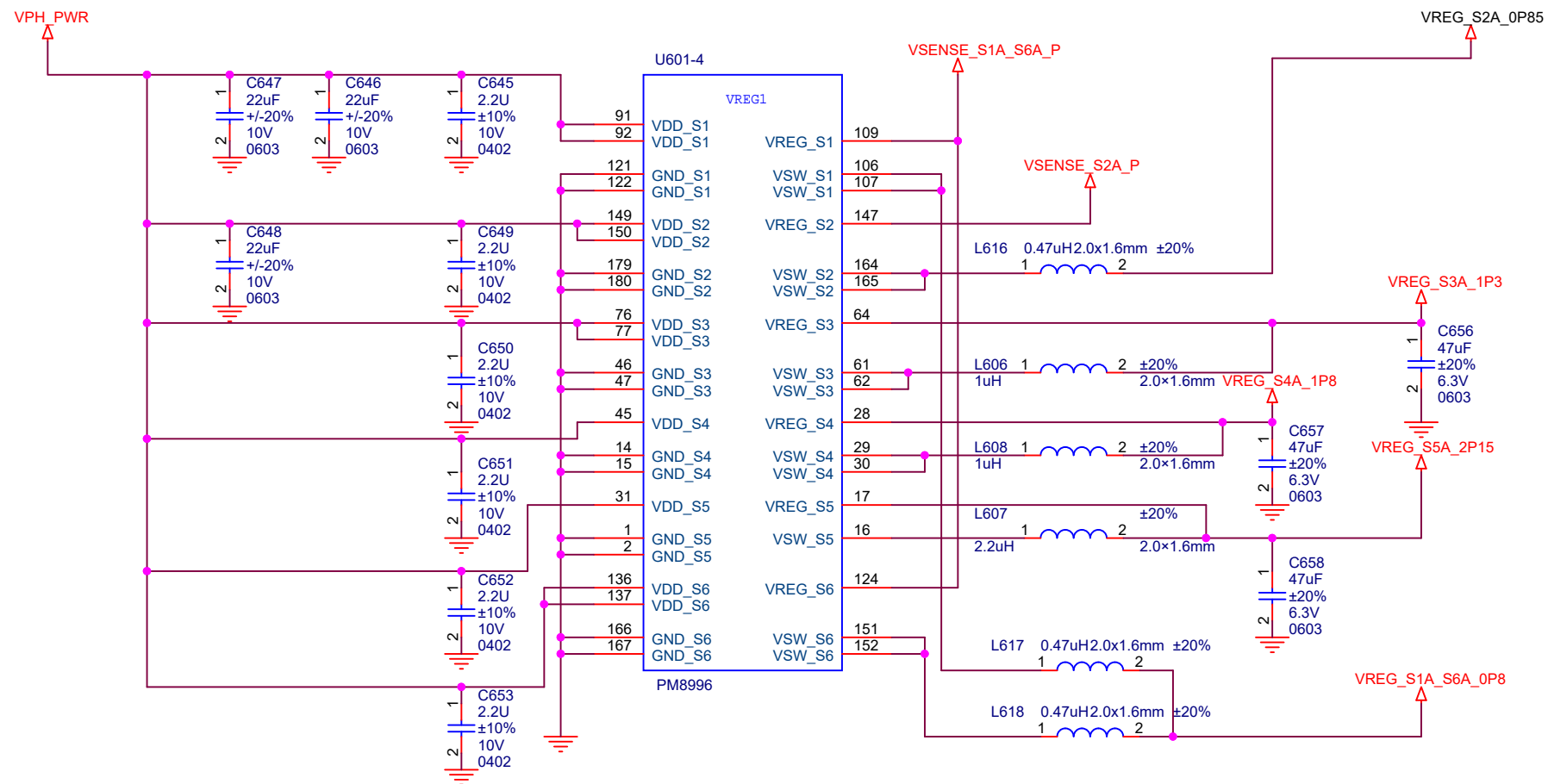




<20> VOL\_UP\_N  
 <29> SPKR\_ID  
 <20> PWM\_HAPTICS  
 <35> INFARED\_DRV  
 <29> KEYPAD\_LED\_EN\_A  
 <9> WL\_EN  
 <10> 3P3\_ENABLE

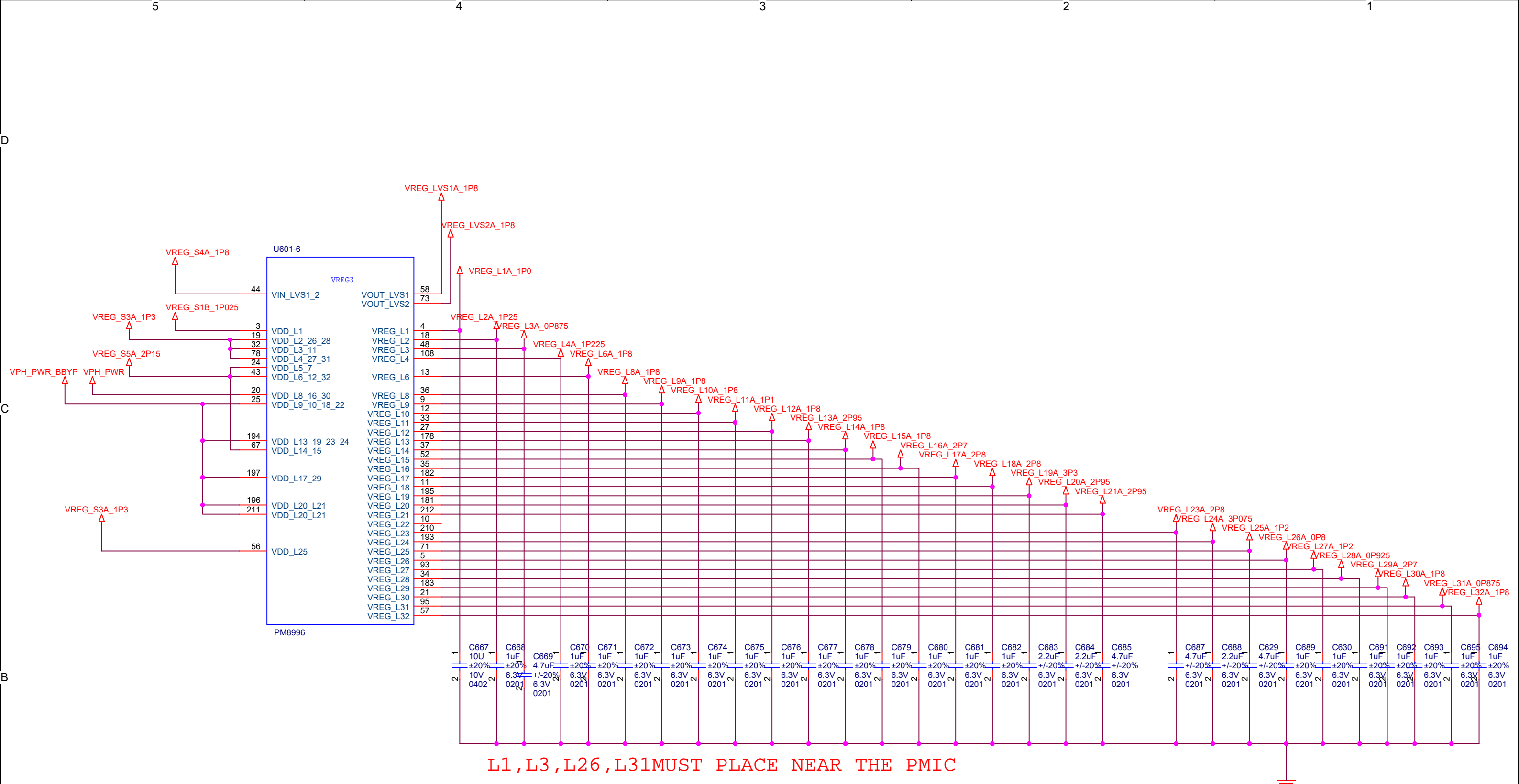
PM8996 GPIO

Title		B7
Size	Document Number	Rev
A3	PM8996 GPIO	P0
Date:	Wednesday, August 17, 2016	Sheet 25 of 35

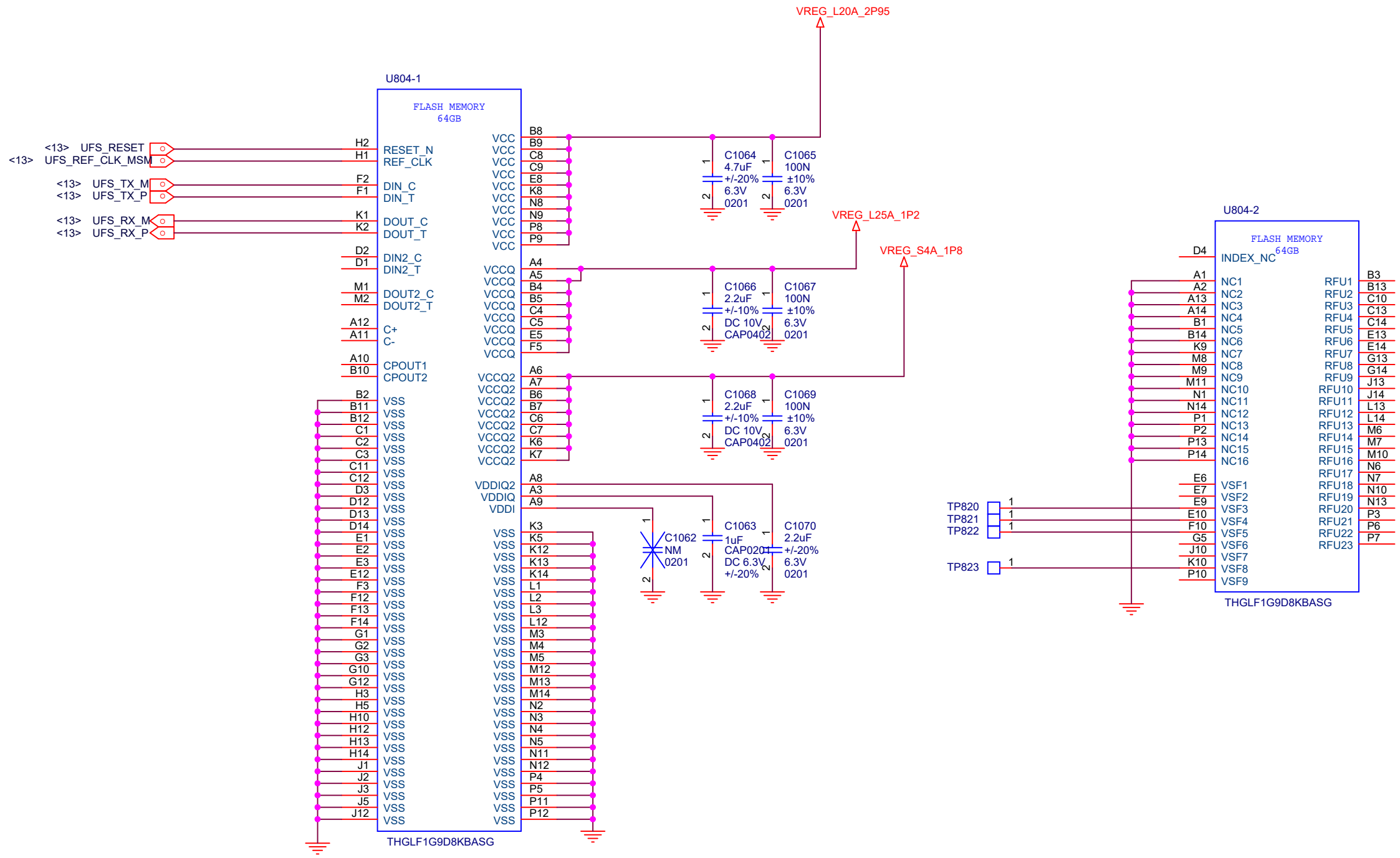


PM8996 VREG

Title		
B7		
Size	Document Number	Rev
A3	PM8996 VREG	P0
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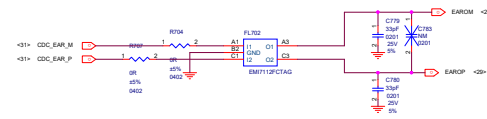
Title		B7
Size	Document Number	Rev
A3	PM8996 LDO	P0
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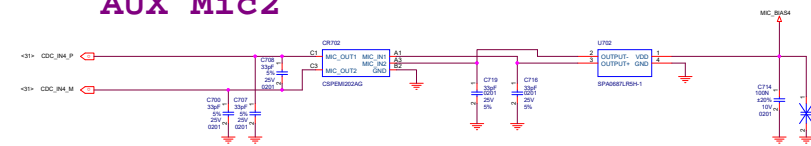
MEMORY UFS

Title			B7
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A3	MEMORY UFS	P0	
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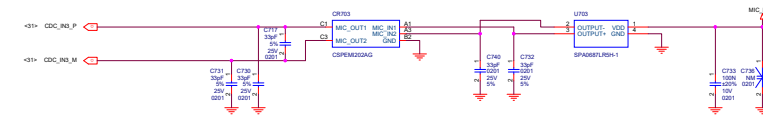
# HANDSET



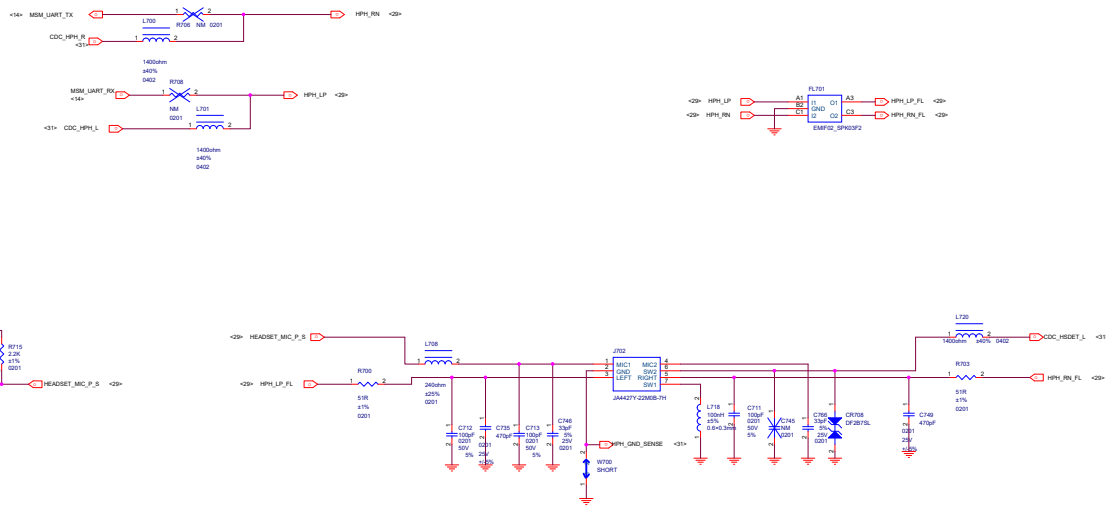
# AUX Mic2



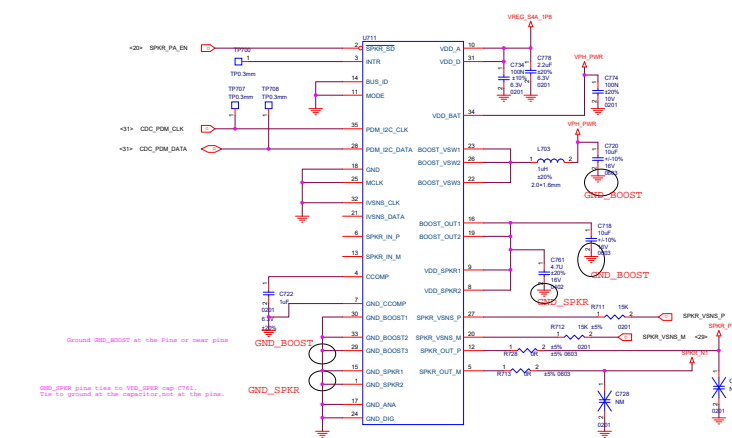
# AUX Mic1



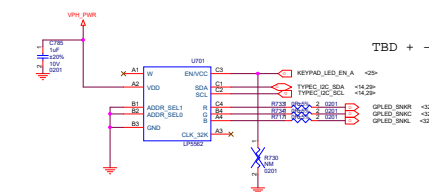
# HEADSET



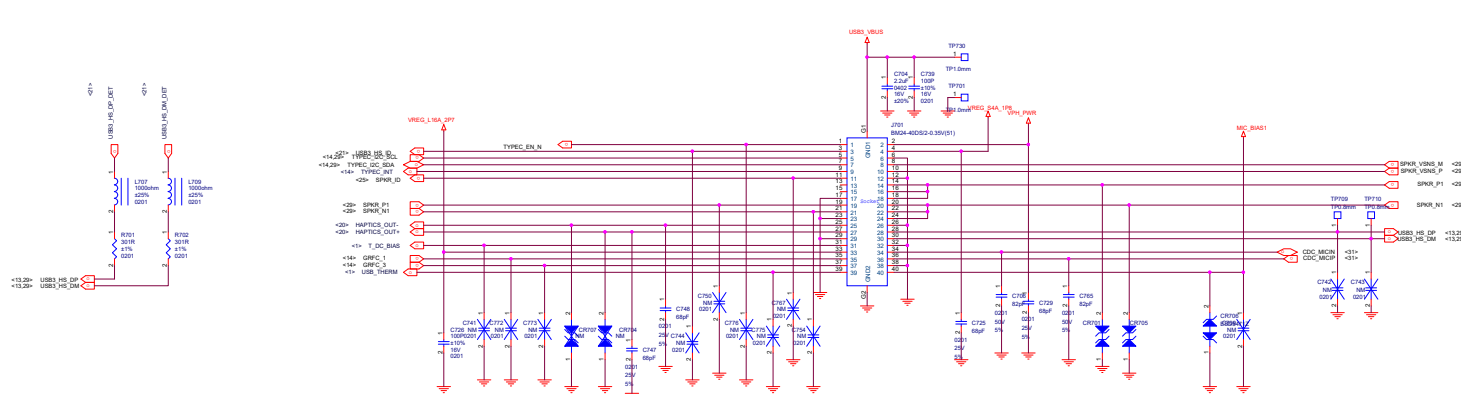
# Speaker PA



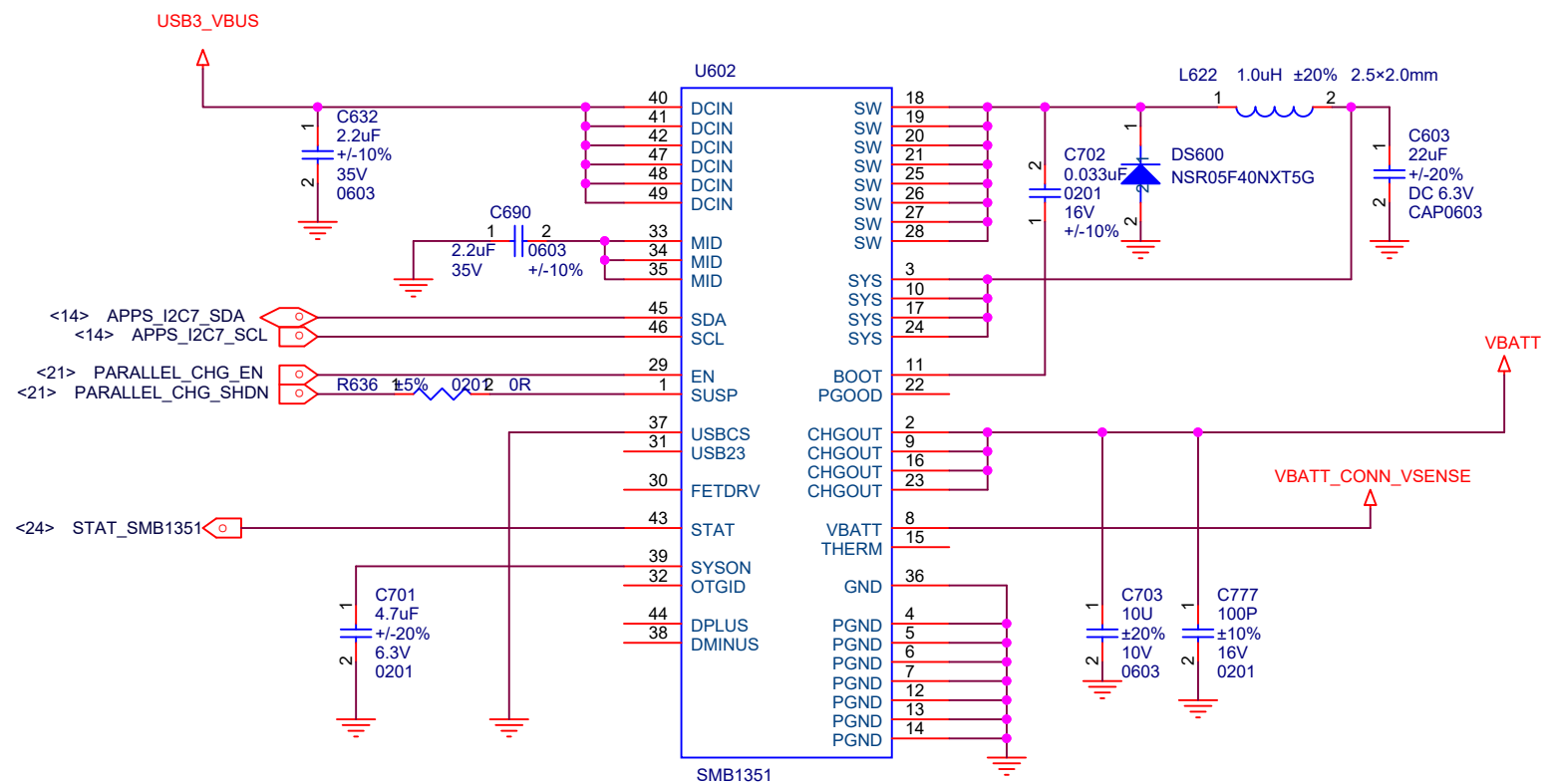
# KEYPAD LED DRIVER



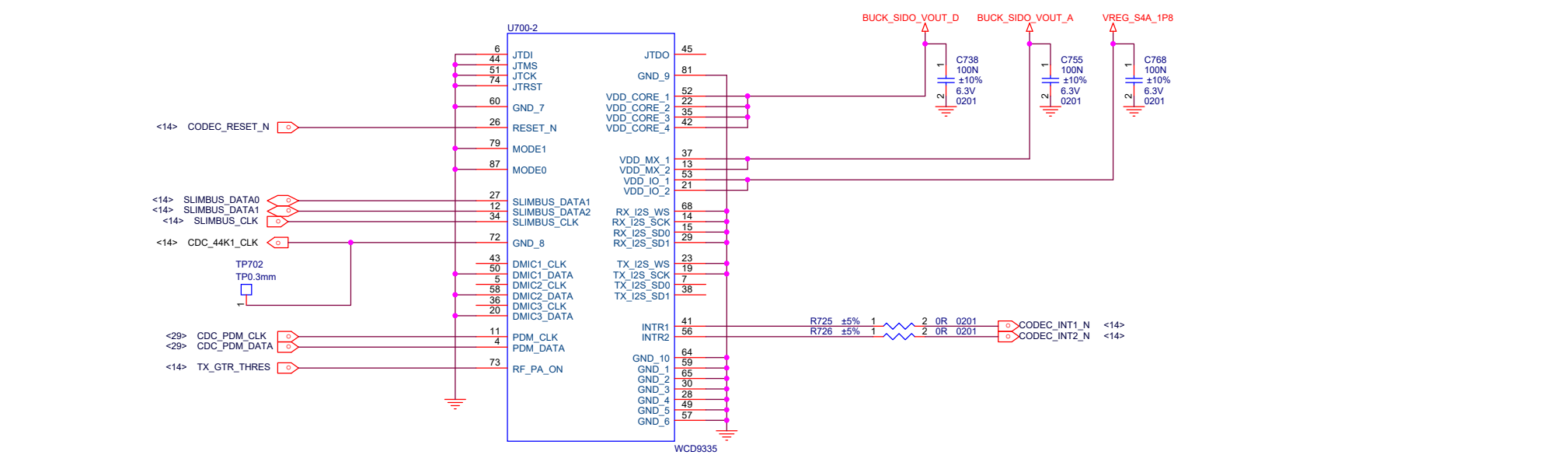
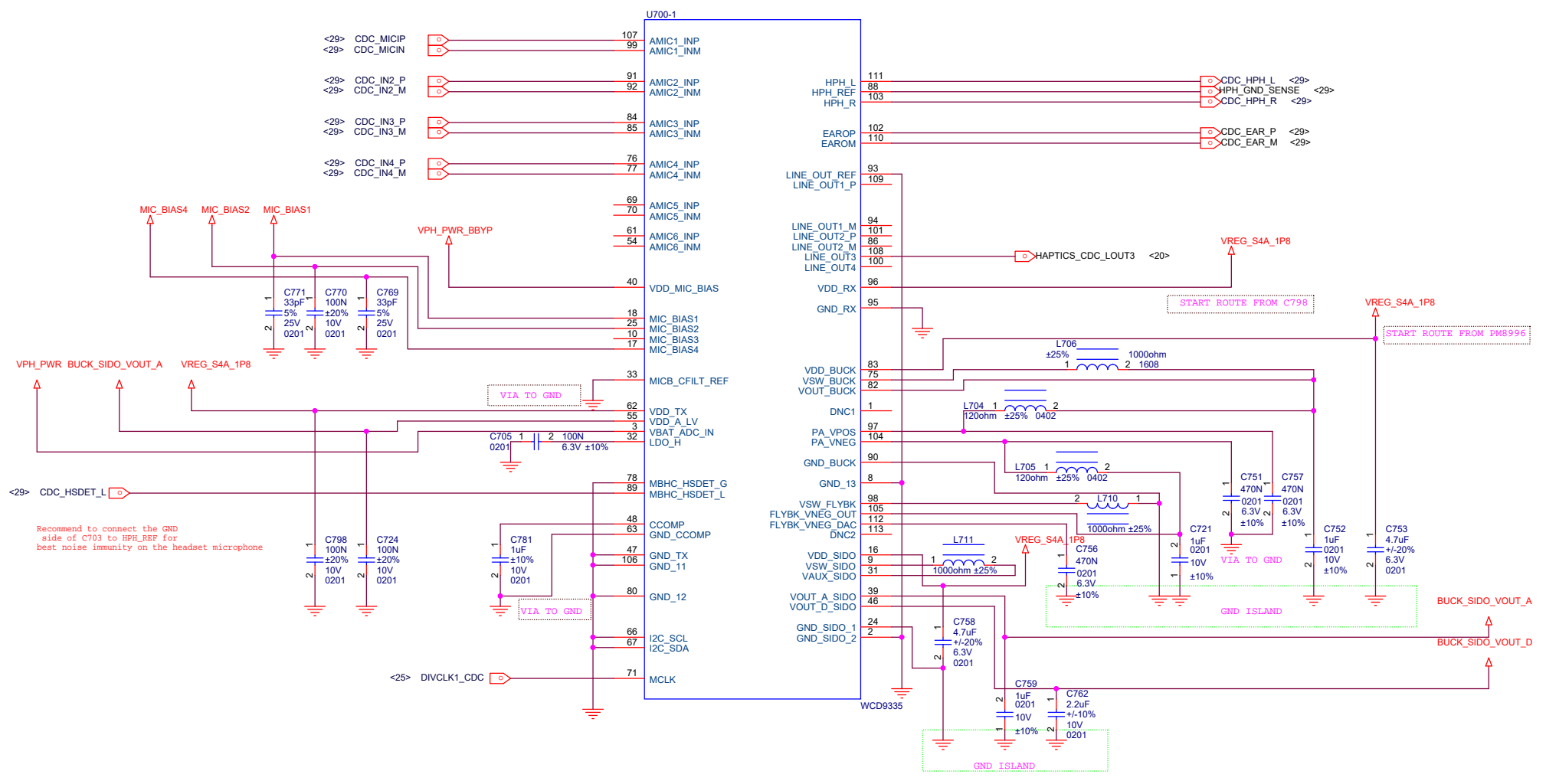
# Bottom fpc Connector

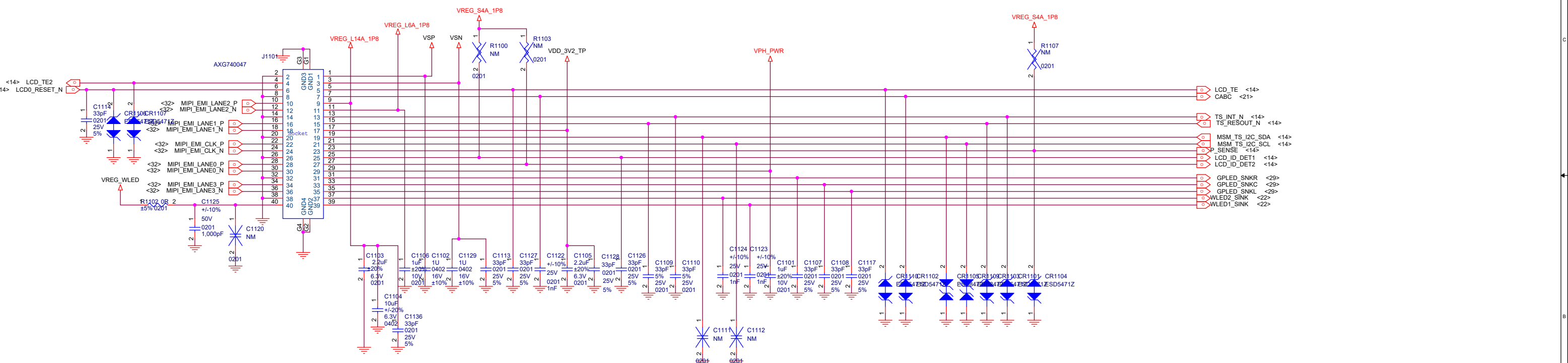
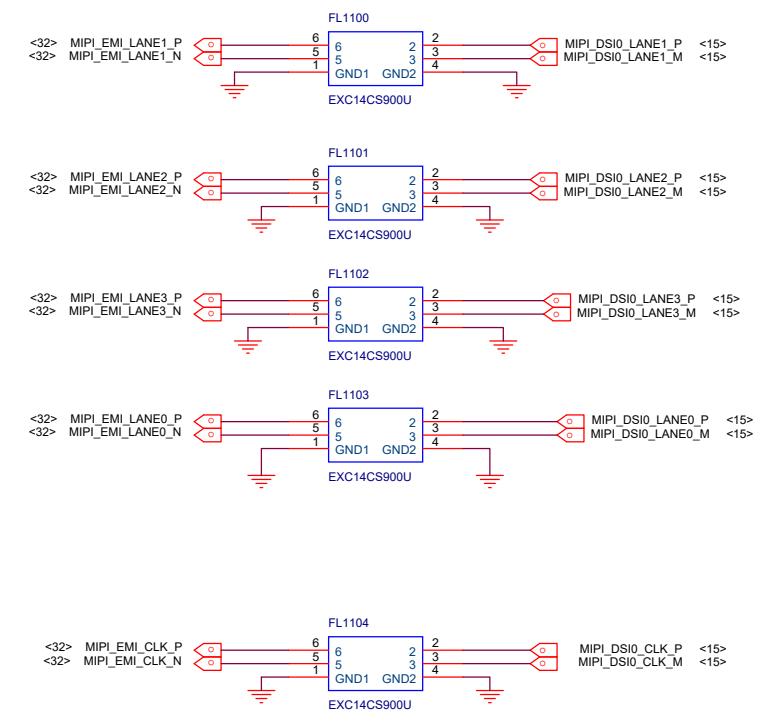
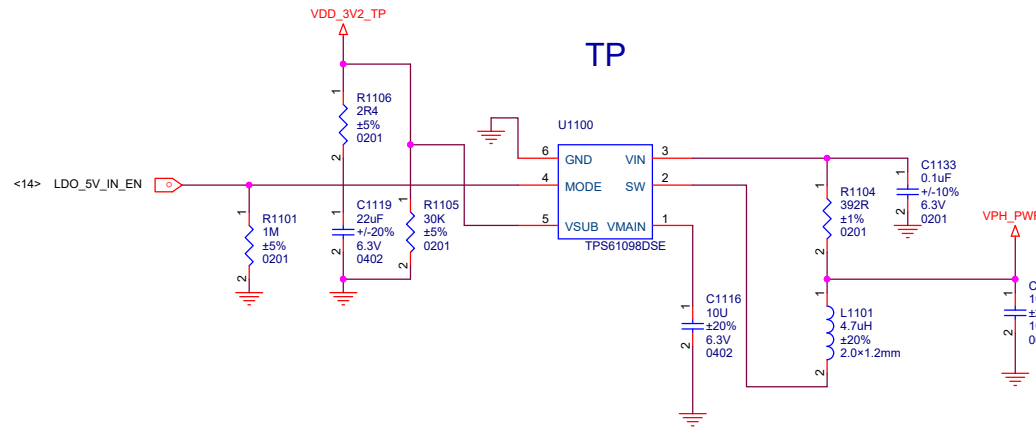


AUDIO	
BP	
KEYPAD_LED_S0	
KEYPAD_LED_S1	
KEYPAD_LED_S2	
KEYPAD_LED_S3	
KEYPAD_LED_S4	
KEYPAD_LED_S5	
KEYPAD_LED_S6	
KEYPAD_LED_S7	
KEYPAD_LED_S8	
KEYPAD_LED_S9	
KEYPAD_LED_S10	
KEYPAD_LED_S11	
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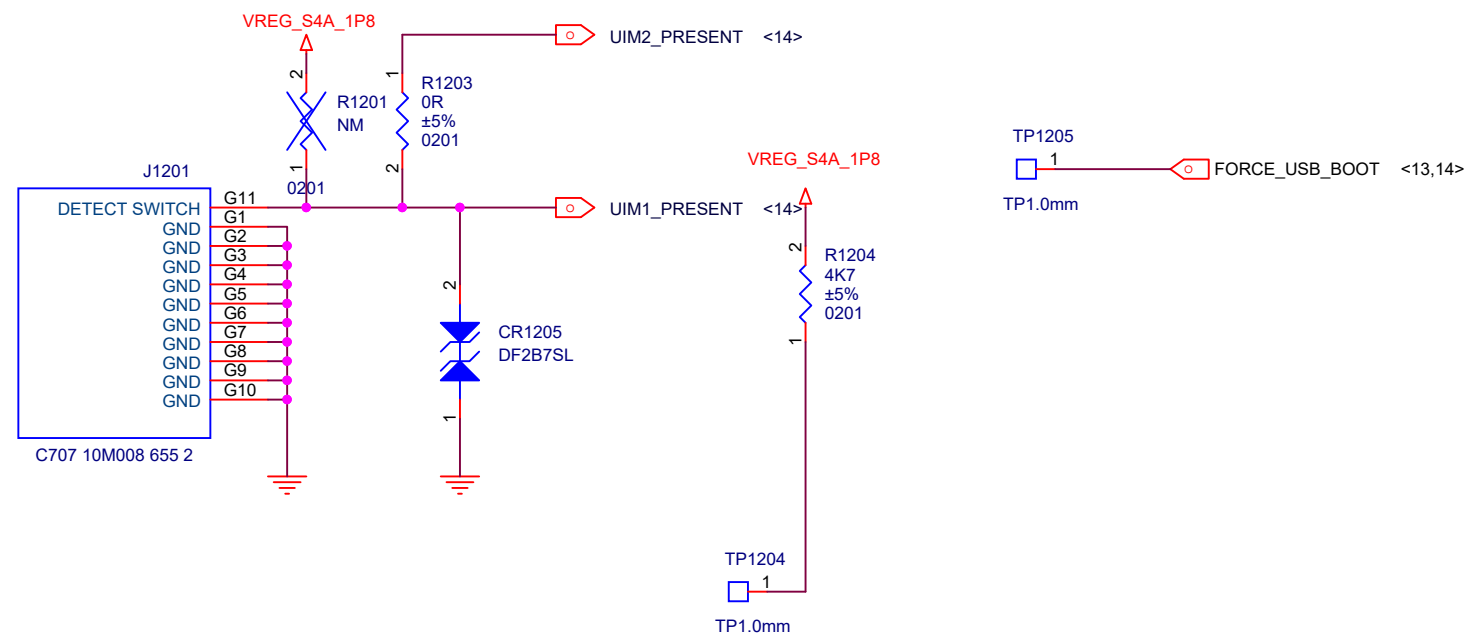
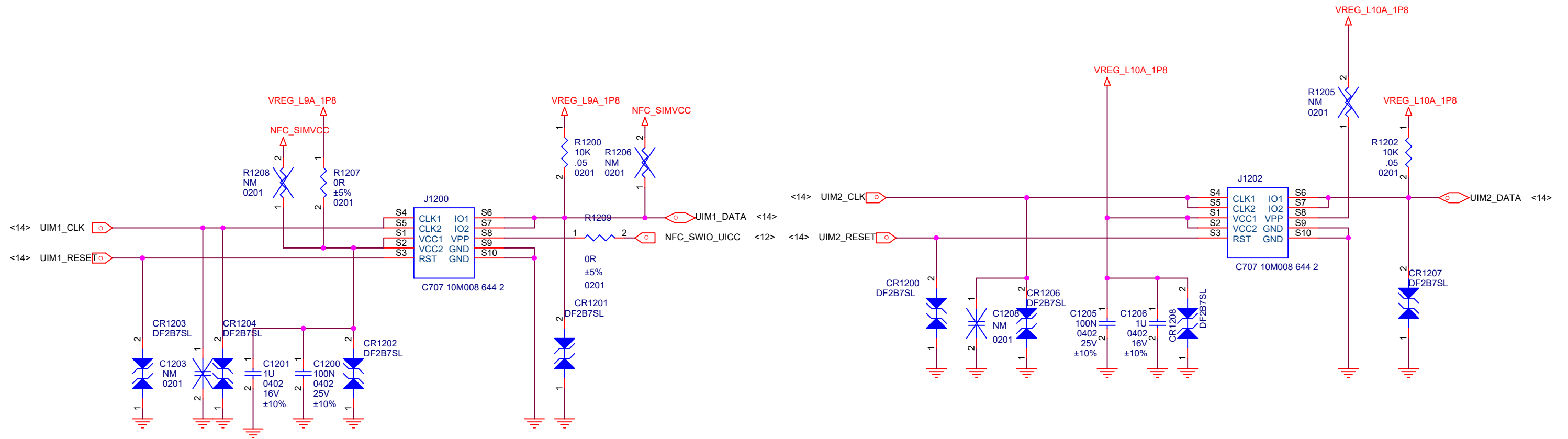


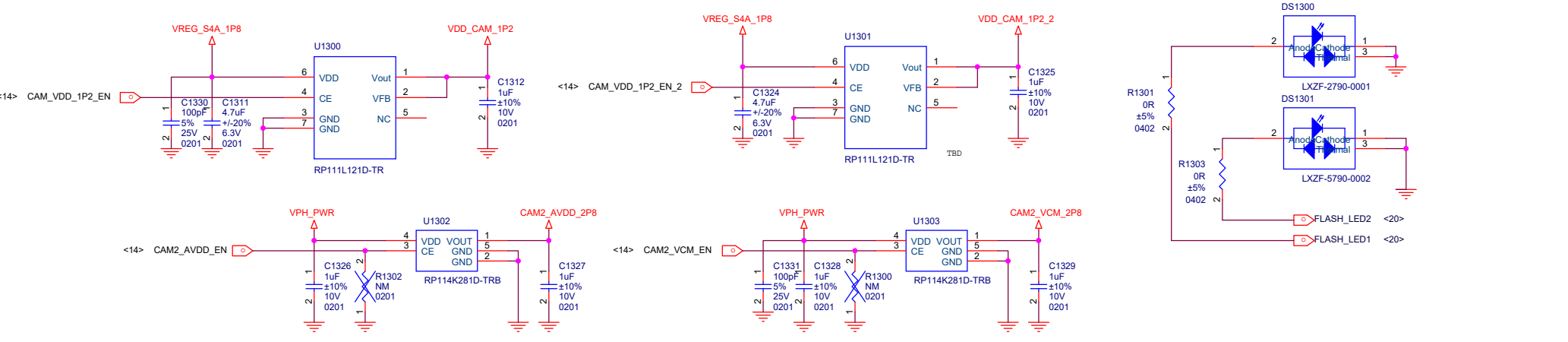
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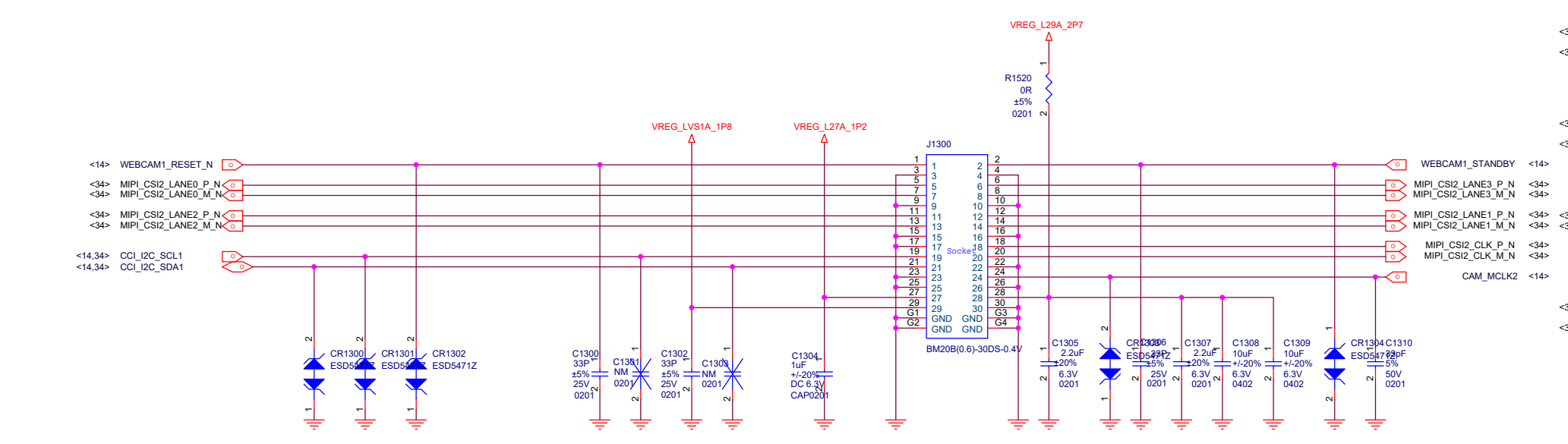
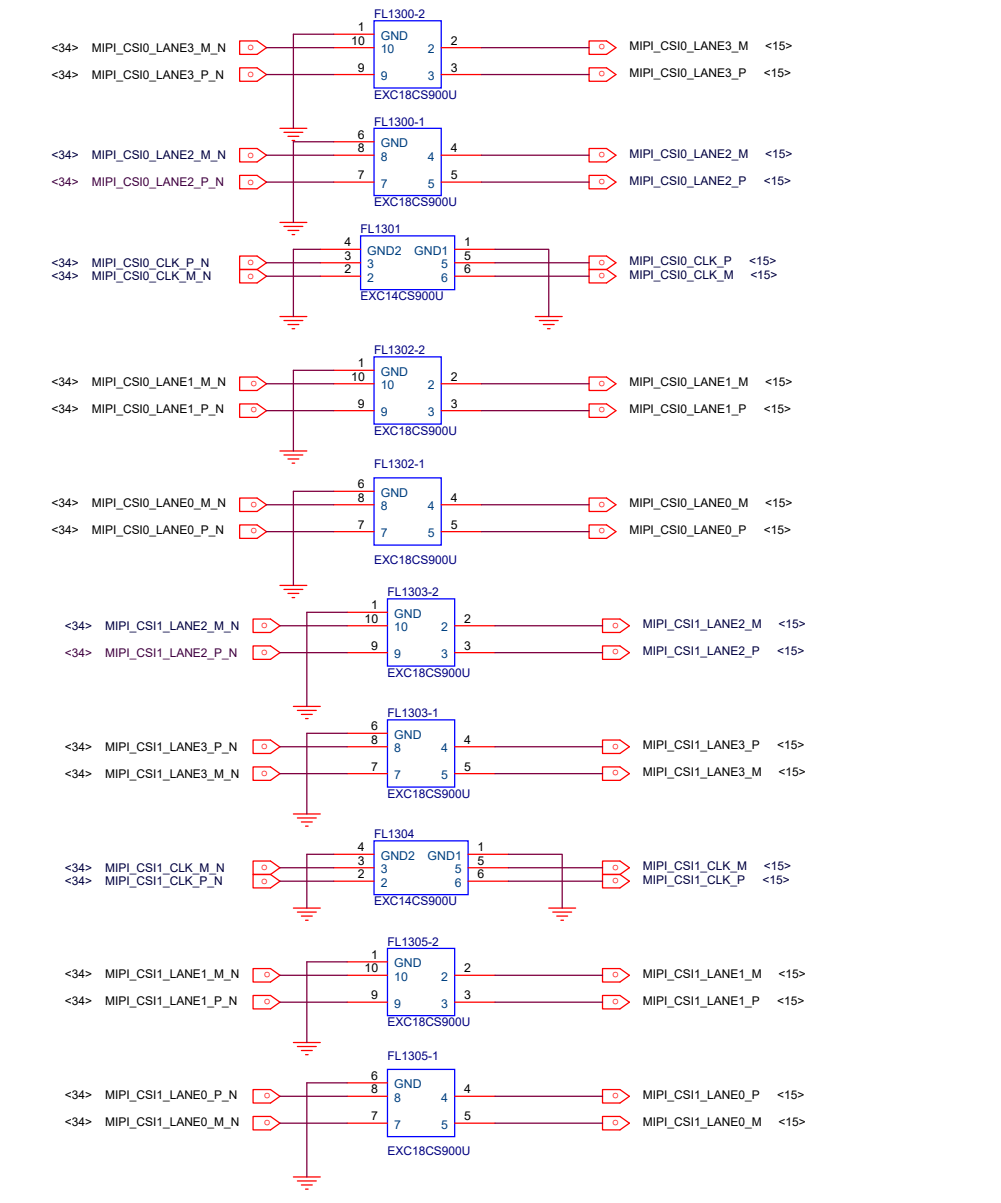
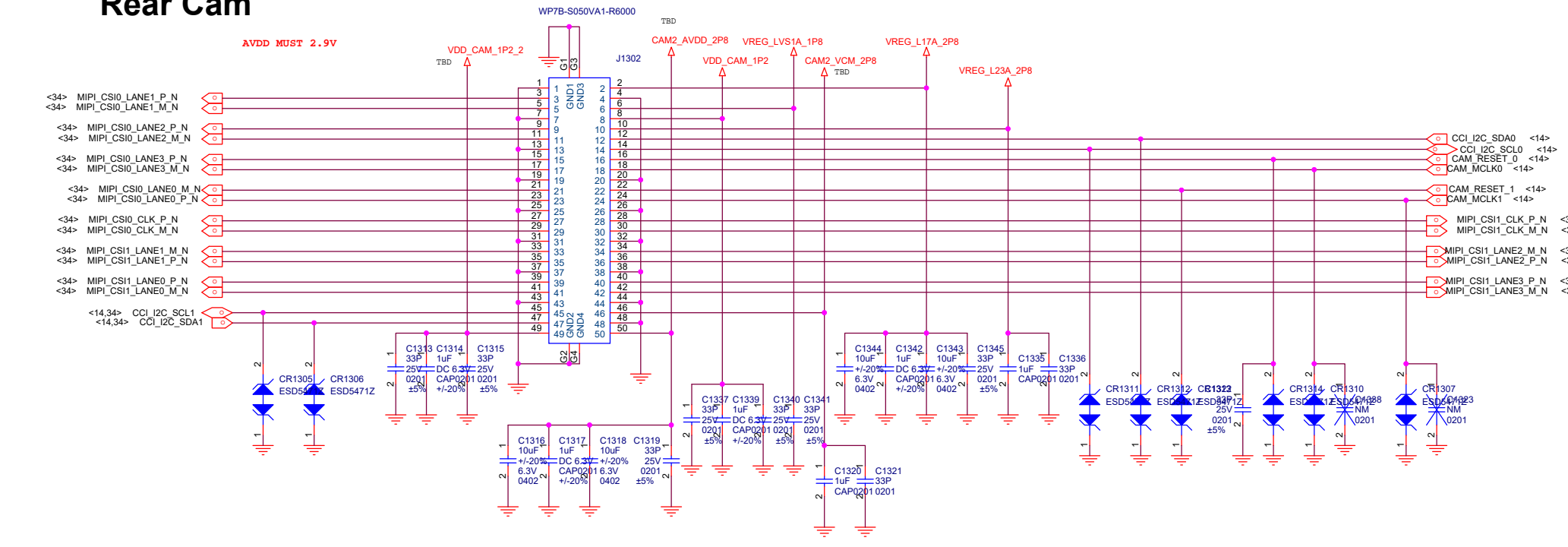




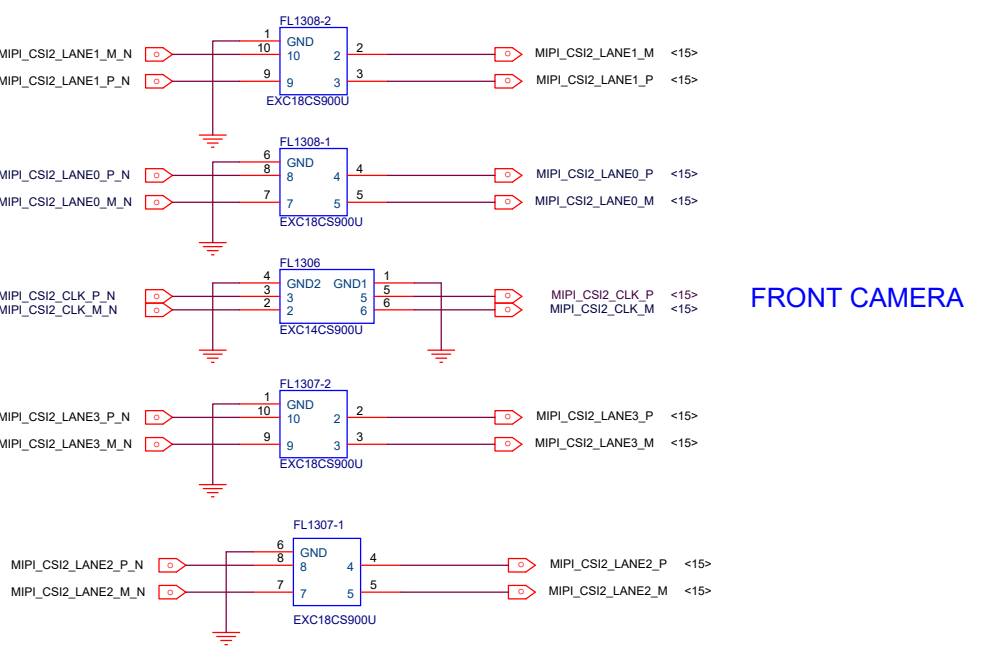




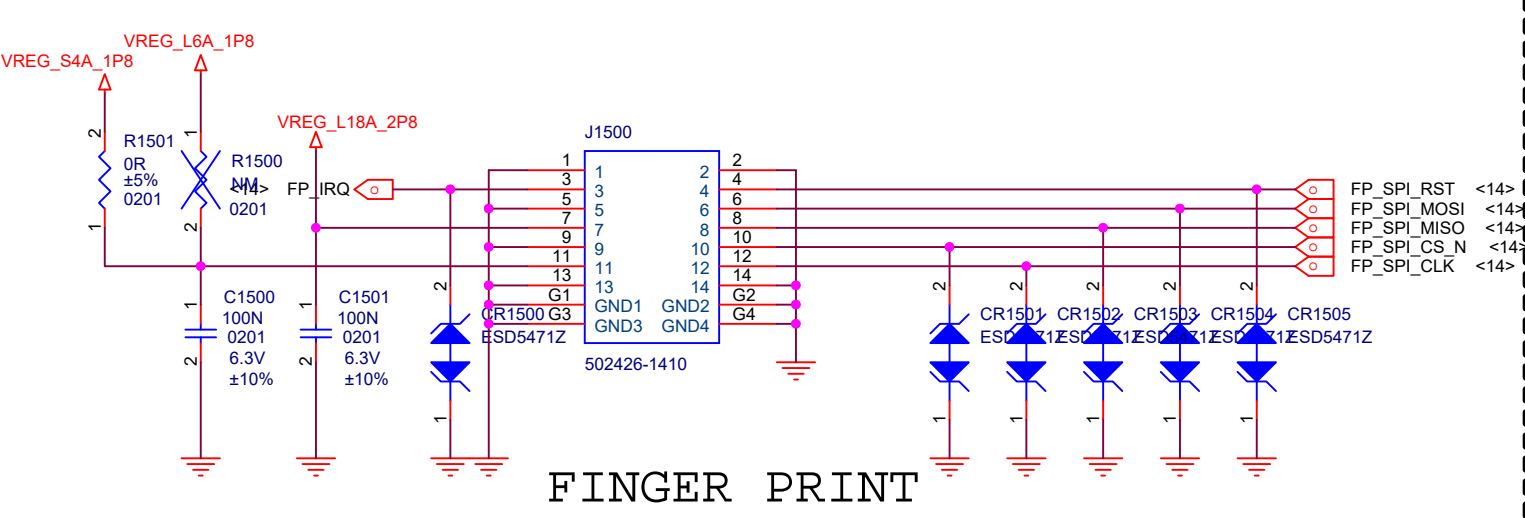
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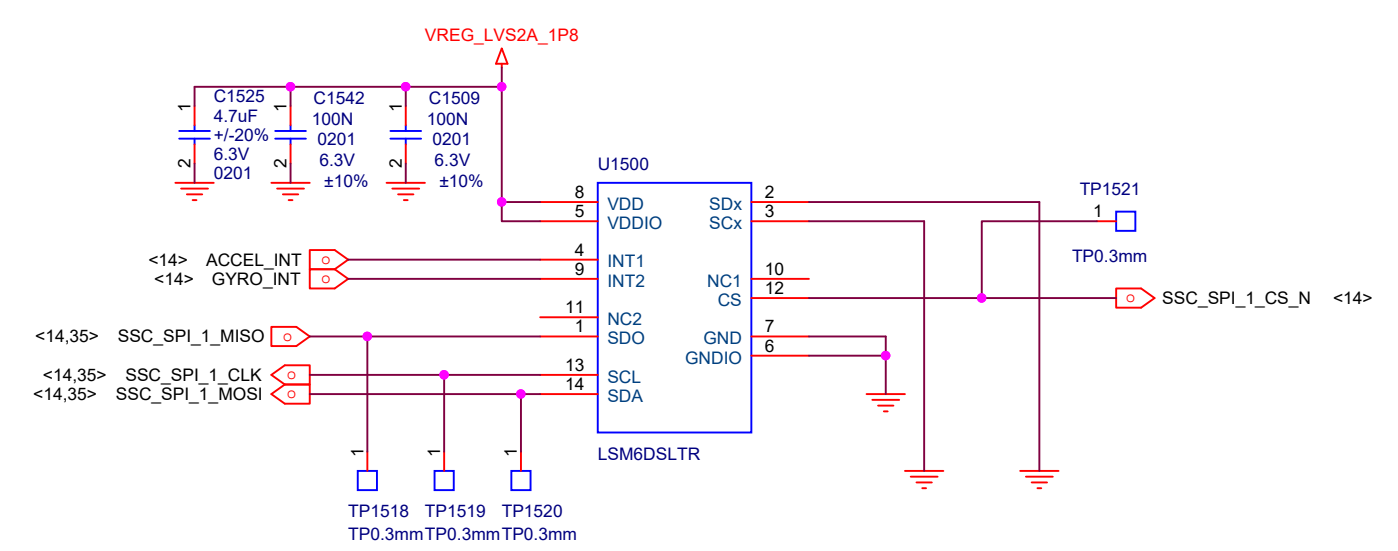
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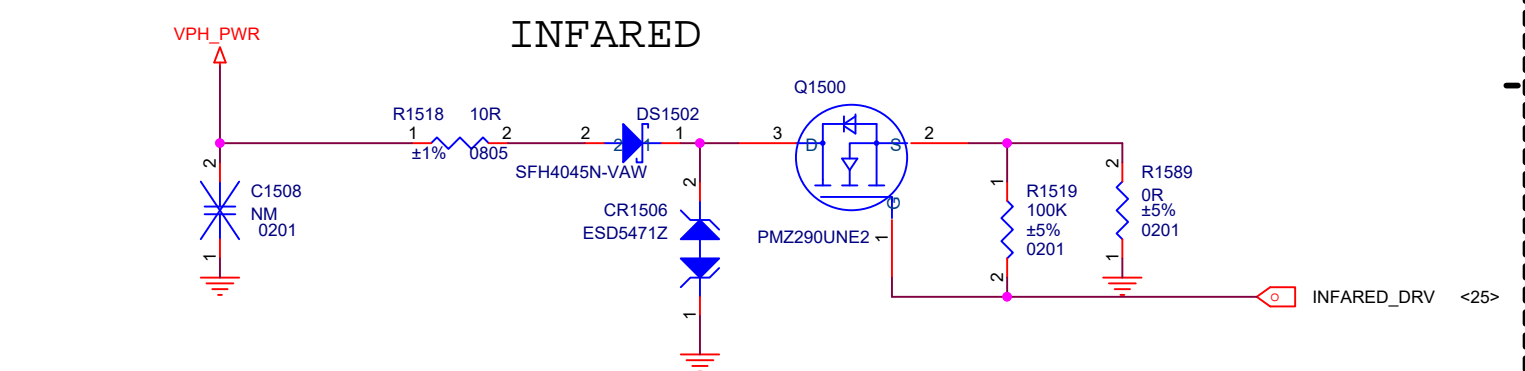
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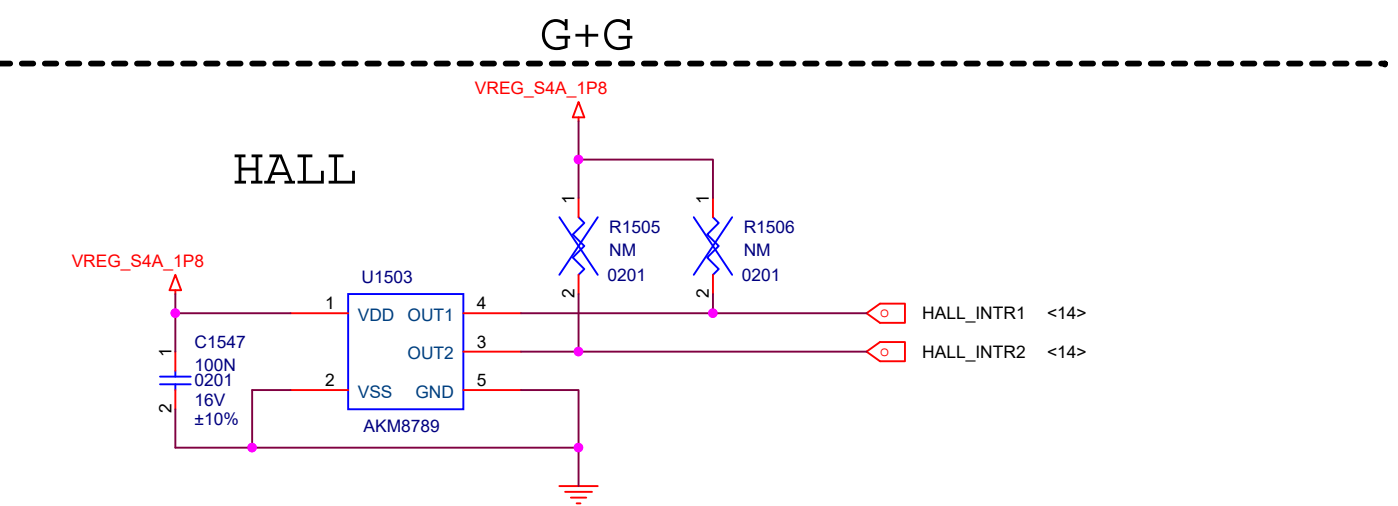
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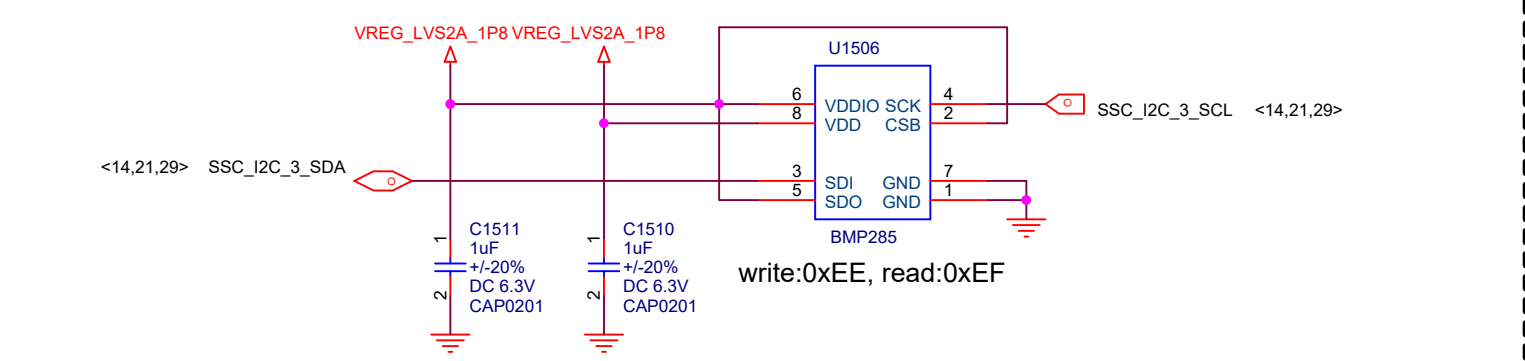
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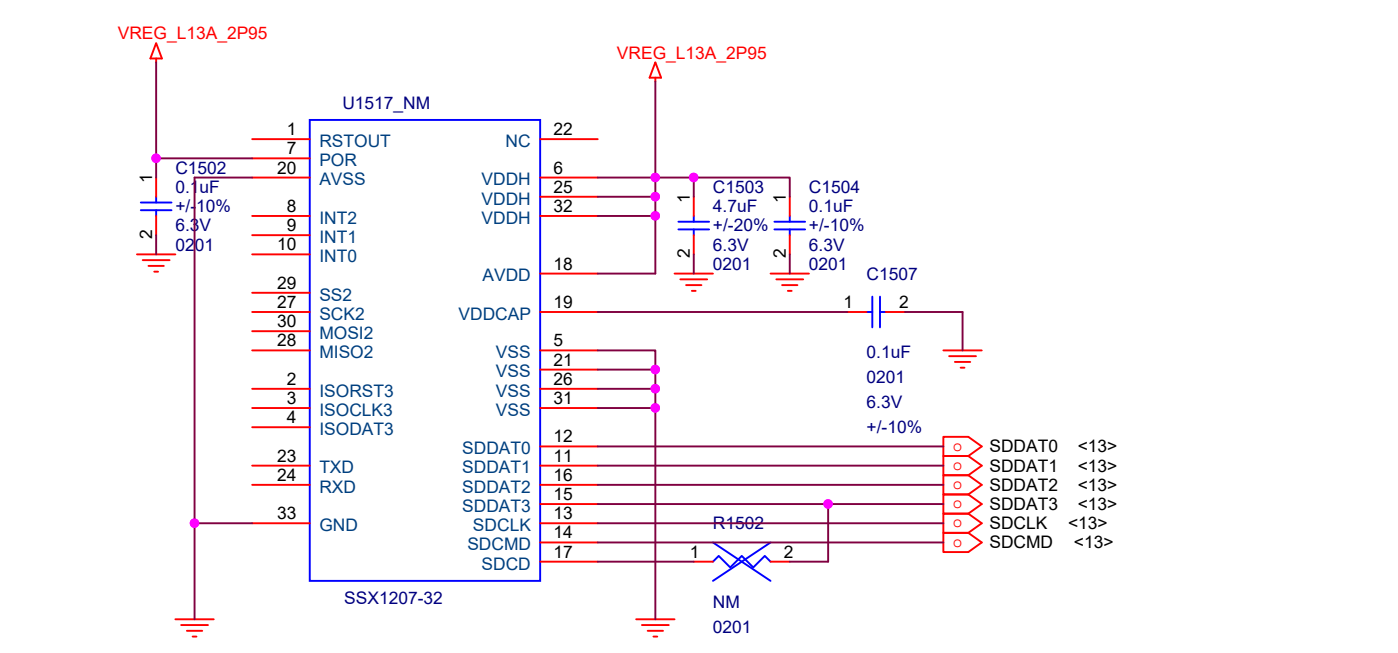
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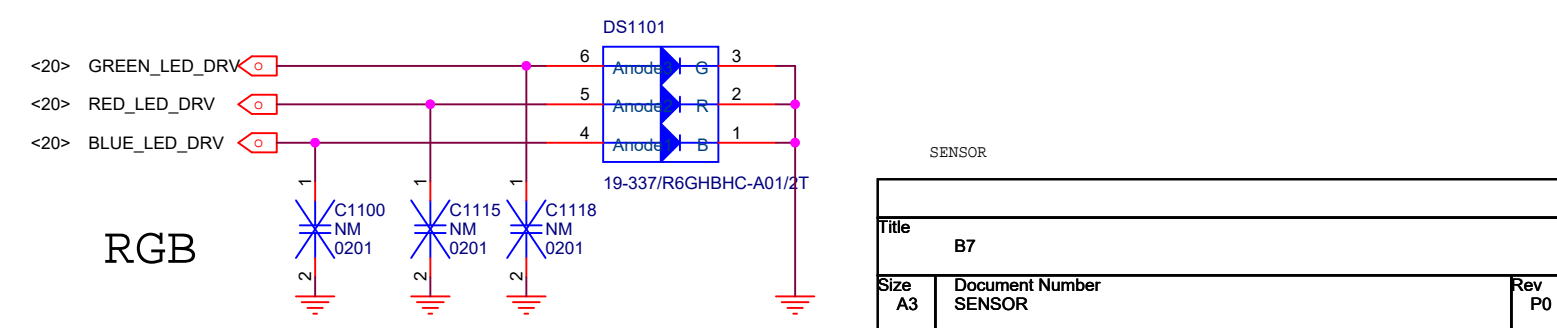
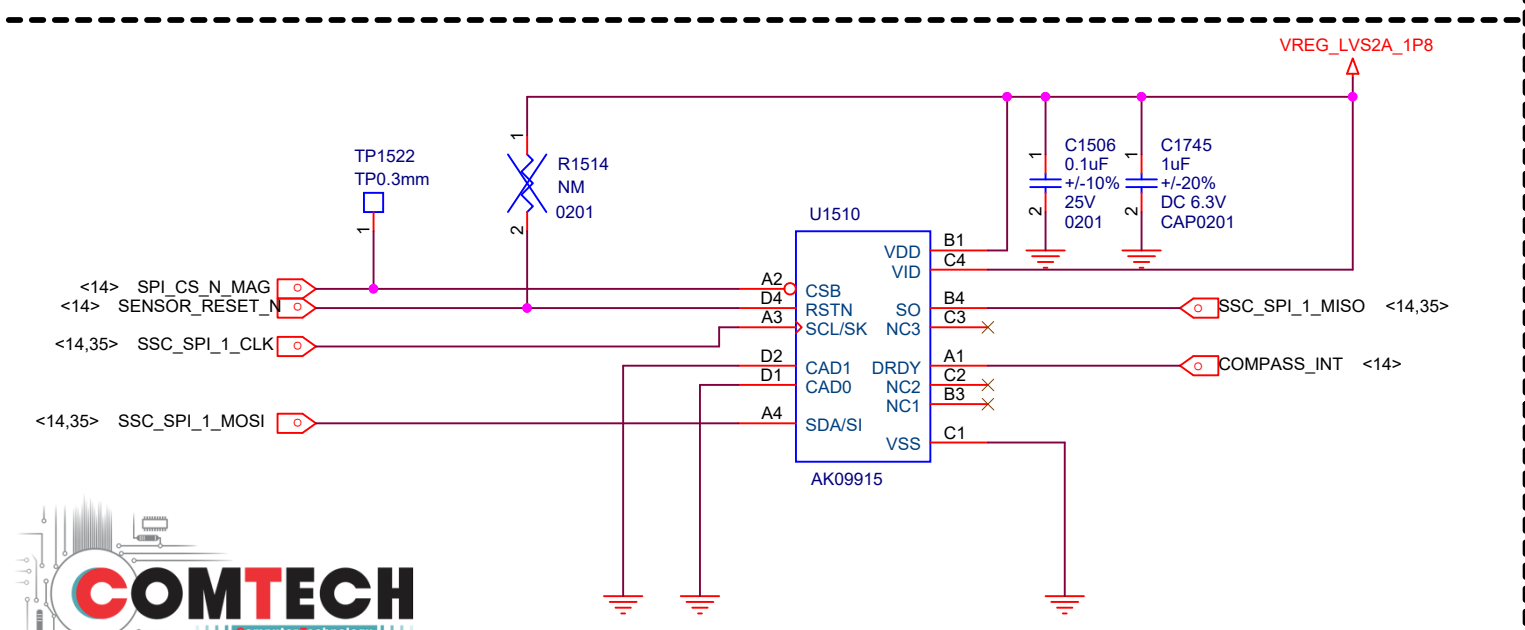
HALL



PRESSURE



COMPASS



RGB



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