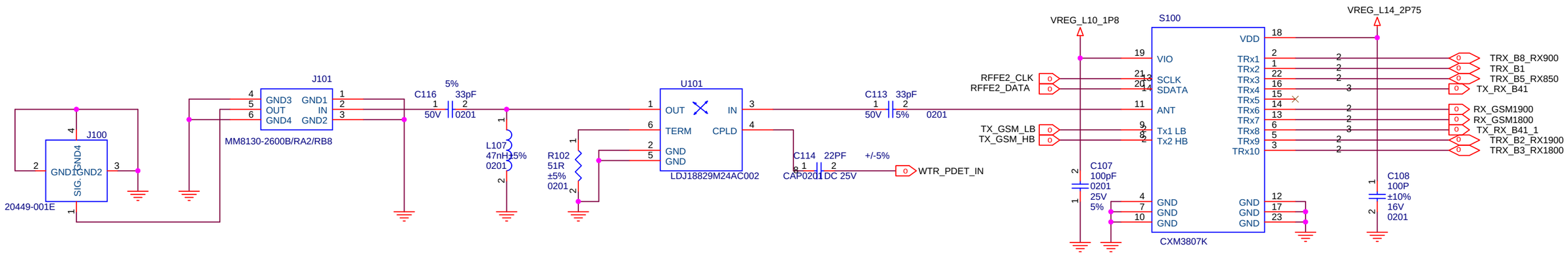

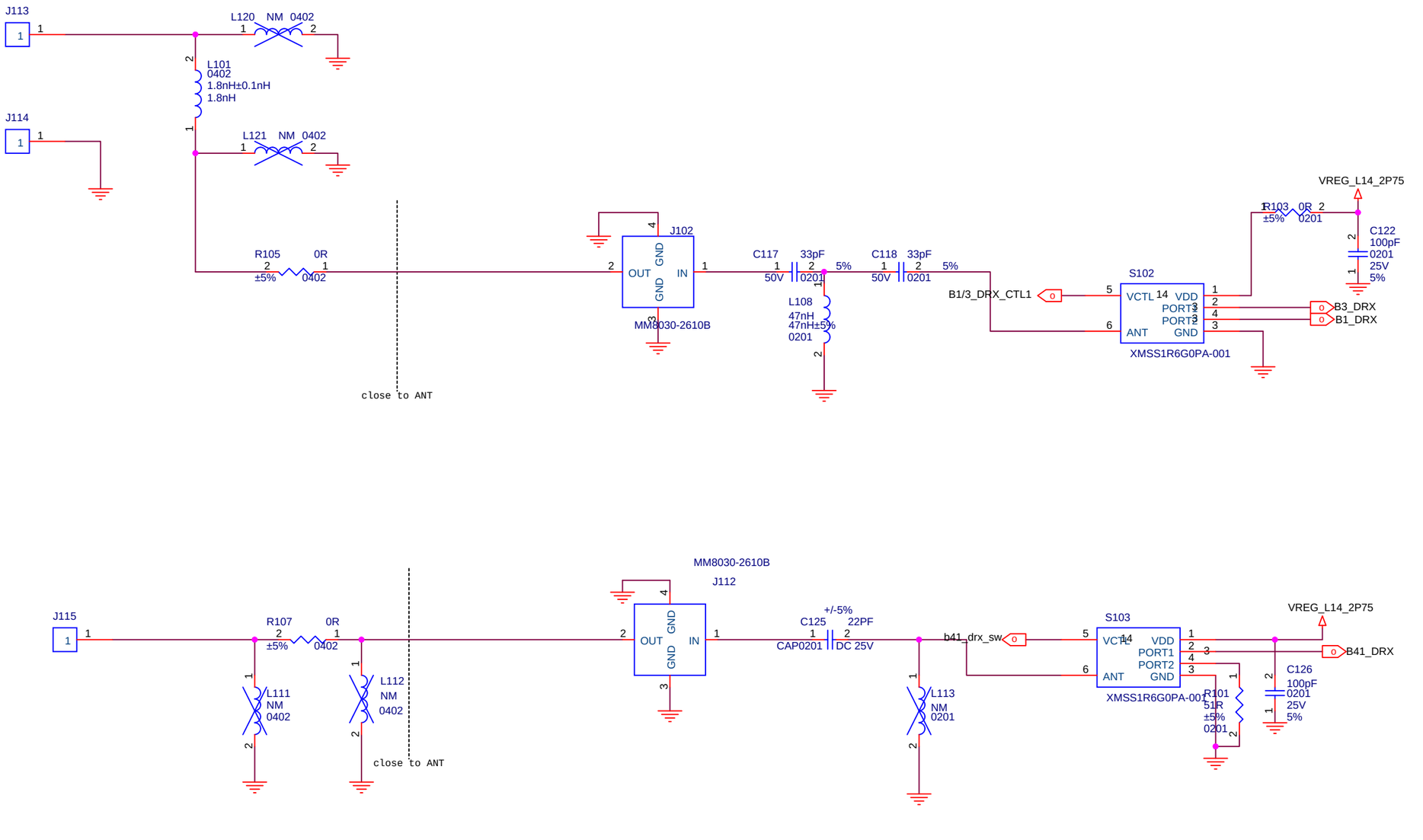

多集 GPIO 配 置 表

V1	V2	State
0	0	shutdown
1	0	B1
0	1	B3
1	1	B41

b41_drx_sw	State
1	B41
0	shutdown

Primary Ant Connector, Coupler and Primary Switchplexer

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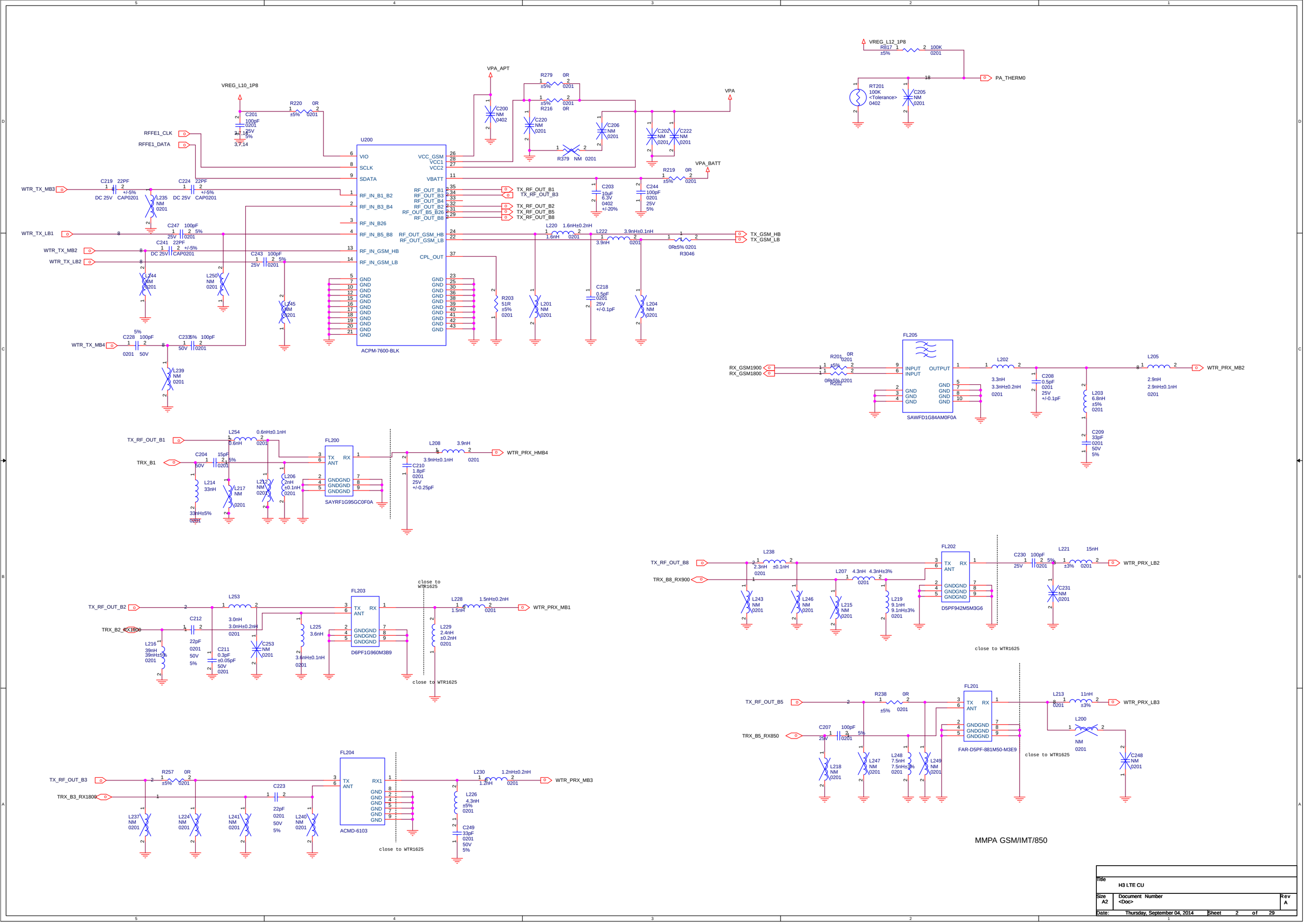
VREG_L10_1P8
R220 0R
C201 100pF 25V
RFFE1_CLK
RFFE1_DATA
U200
VIO
SCLK
SDATA
RF_IN_B1_B2
RF_IN_B3_B4
RF_IN_B26
RF_IN_B5_B8
RF_IN_GSM_HB
RF_IN_GSM_LB
CPL_OUT
VCC_GSM
VCC1
VCC2
VBATT
RF_OUT_B1
RF_OUT_B3
RF_OUT_B4
RF_OUT_B2
RF_OUT_B5_B26
RF_OUT_B8
RF_OUT_GSM_HB
RF_OUT_GSM_LB
GND
ACPM-7600-BLK
VPA_APT
R279 0R
R216 0R
C200 NM 0402
C220 NM 0201
C206 NM 0201
R379 NM 0201
C202 NM 0201
C222 NM 0201
VPA
VPA_BATT
R219 0R
C203 10uF 6.3V 0402 +/-20%
C244 100pF 25V 5%
TX_RF_OUT_B1
TX_RF_OUT_B3
TX_RF_OUT_B2
TX_RF_OUT_B5
TX_RF_OUT_B8
WTR_TX_MB3
C219 22PF
C224 22PF
L235 NM 0201
WTR_TX_LB1
C247 100pF 25V 5%
WTR_TX_MB2
C241 22PF
WTR_TX_LB2
C243 100pF 25V 5%
L244 NM 0201
L250 NM 0201
L245 NM 0201
WTR_TX_MB4
C228 100pF
C233 100pF 50V
L239 NM 0201
L220 1.6nH±0.2nH 1.6nH 0201
L222 3.9nH±0.1nH 3.9nH 0201
TX_GSM_HB
TX_GSM_LB
0R±5% 0201 R3046
R203 51R ±5% 0201
L201 NM 0201
C218 0.5pF 0201 25V +/-0.1pF
L204 NM 0201
VREG_L12_1P8
R817 100K ±5% 0201
PA_THERM0
RT201 100K <Tolerance> 0402
C205 NM 0201
FL205
SAWFD1G84AM0F0A
INPUT
OUTPUT
GND
RX_GSM1900
RX_GSM1800
R201 0R 0201
0R±5% 0201 R202
L202 3.3nH 3.3nH±0.2nH 0201
C208 0.5pF 0201 25V +/-0.1pF
L205 2.9nH 2.9nH±0.1nH 0201
WTR_PRX_MB2
L203 6.8nH ±5% 0201
C209 33pF 0201 50V 5%
TX_RF_OUT_B1
TRX_B1
L254 0.6nH±0.1nH 0.6nH 0201
C204 15pF 50V 5%
L214 33nH
33nH±5% 0201
L217 NM 0201
L212 NM 0201
L206 2nH ±0.1nH 0201
FL200
SAYRF1G95GC0F0A
L208 3.9nH 3.9nH±0.1nH 0201
C210 1.8pF 0201 25V +/-0.25pF
WTR_PRX_HMB4
TX_RF_OUT_B2
TRX_B2_RX1800
L253 3.0nH 3.0nH±0.2nH 0201
C212 22pF 0201 50V 5%
L216 39nH 39nH±5% 0201
C211 0.3pF ±0.05pF 50V 0201
C253 NM 0201
L225 3.6nH
3.6nH±0.1nH 0201
FL203
D6PF1G960M3B9
close to WTR1625
L228 1.5nH±0.2nH 1.5nH 0201
L229 2.4nH ±0.2nH 0201
WTR_PRX_MB1
TX_RF_OUT_B3
TRX_B3_RX1800
R257 0R
C223 22pF 0201 50V 5%
L237 NM 0201
L224 NM 0201
L241 NM 0201
L240 NM 0201
FL204
ACMD-6103
RX1
L230 1.2nH±0.2nH 1.2nH 0201
L226 4.3nH ±5% 0201
C249 33pF 0201 50V 5%
WTR_PRX_MB3
TX_RF_OUT_B8
TRX_B8_RX900
L238 2.3nH ±0.1nH 0201
L243 NM 0201
L246 NM 0201
L207 4.3nH 4.3nH±3% 0201
L215 NM 0201
L219 9.1nH 9.1nH±3% 0201
FL202
D5PF942M5M3G6
C230 100pF 25V 5%
L221 15nH ±3% 0201
C231 NM 0201
WTR_PRX_LB2
TX_RF_OUT_B5
TRX_B5_RX850
R238 0R ±5% 0201
C207 100pF 25V 5%
L218 NM 0201
L247 NM 0201
L248 7.5nH 7.5nH±3% 0201
L249 NM 0201
FL201
FAR-D5PF-881M50-M3E9
L213 11nH ±3% 0201
L200 NM 0201
C248 NM 0201
WTR_PRX_LB3
MMPA GSM/IMT/850
Title
H3 LTE CU
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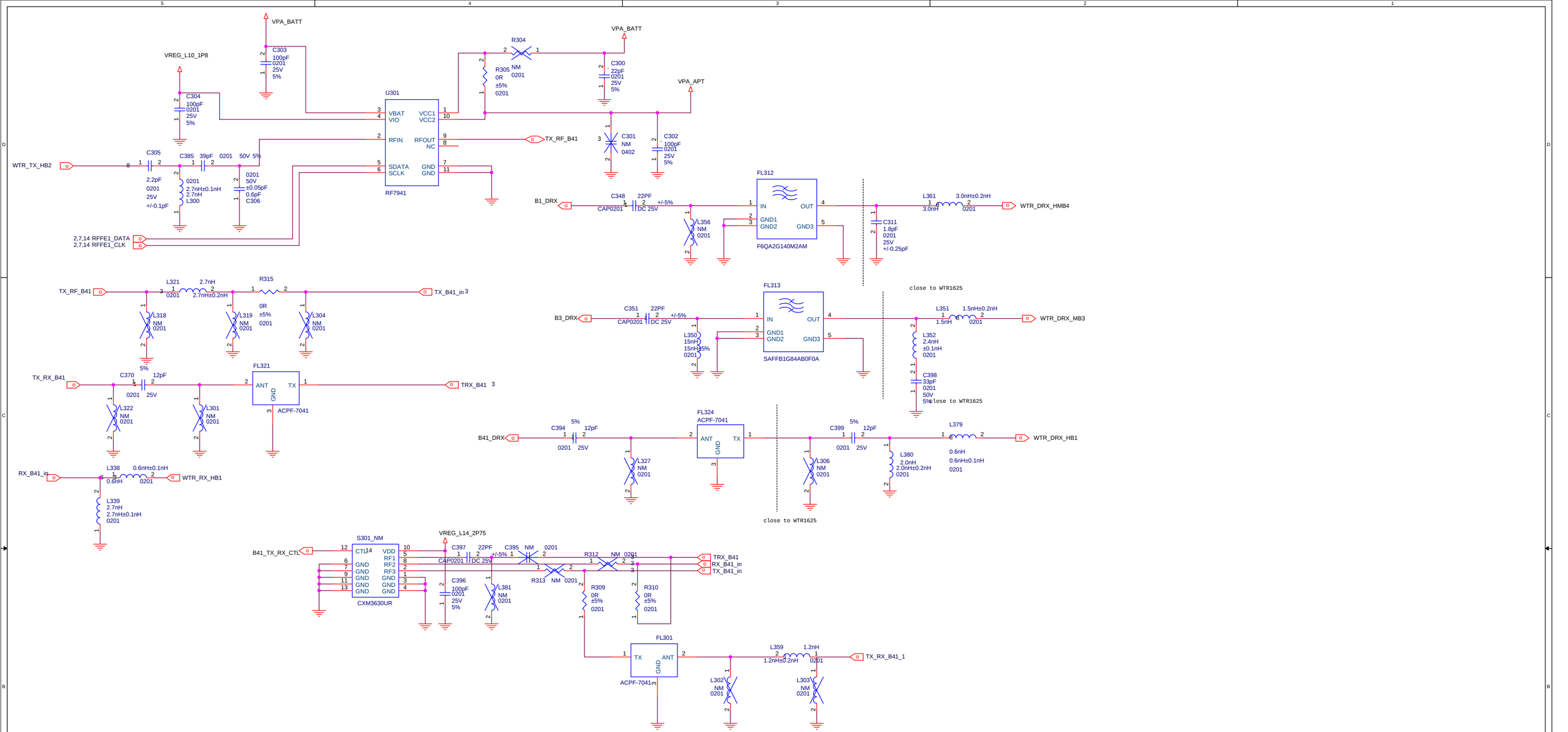

Title	H3 LTE CU		
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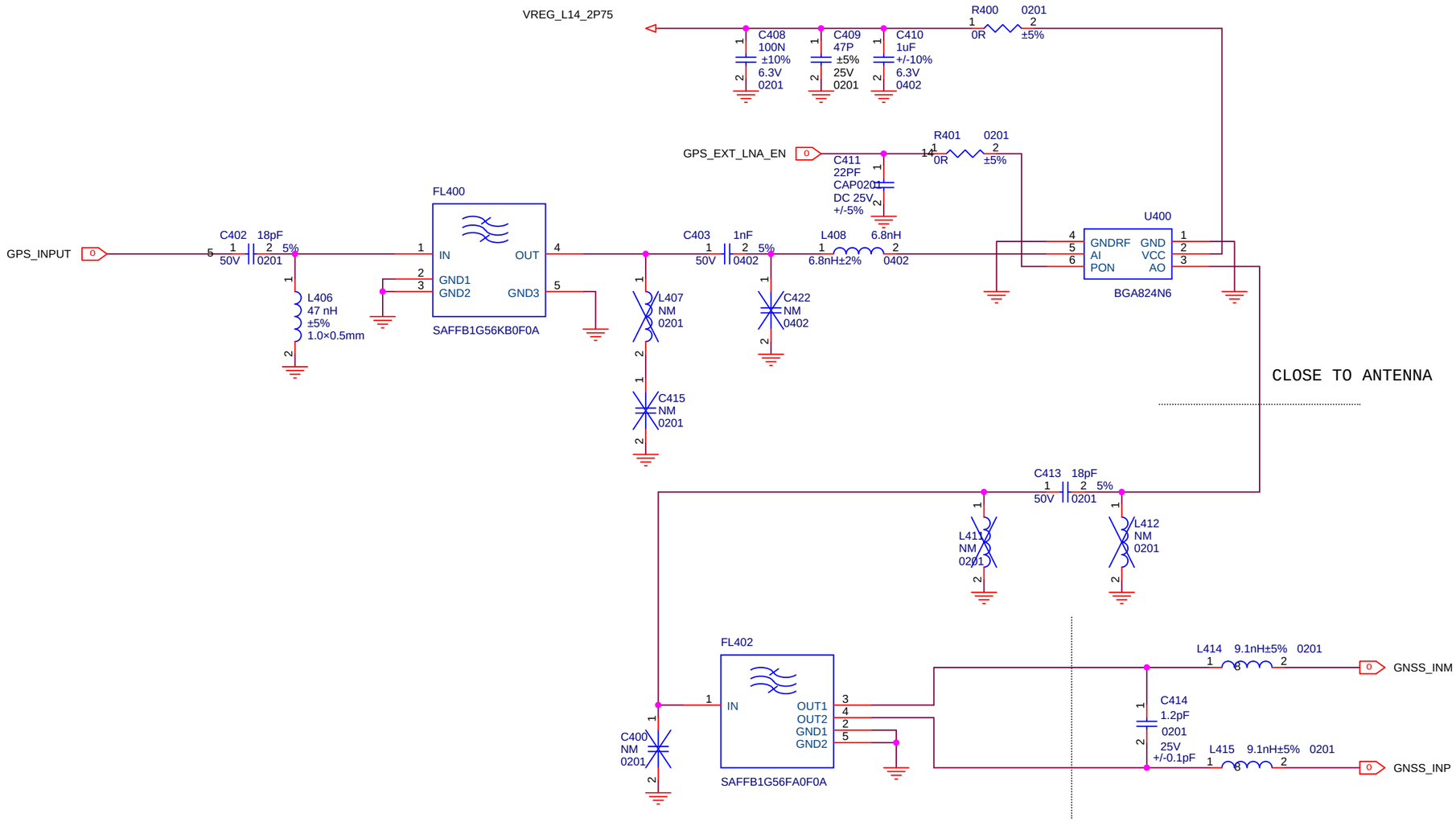

GPS

Title: H3 LTE CU		
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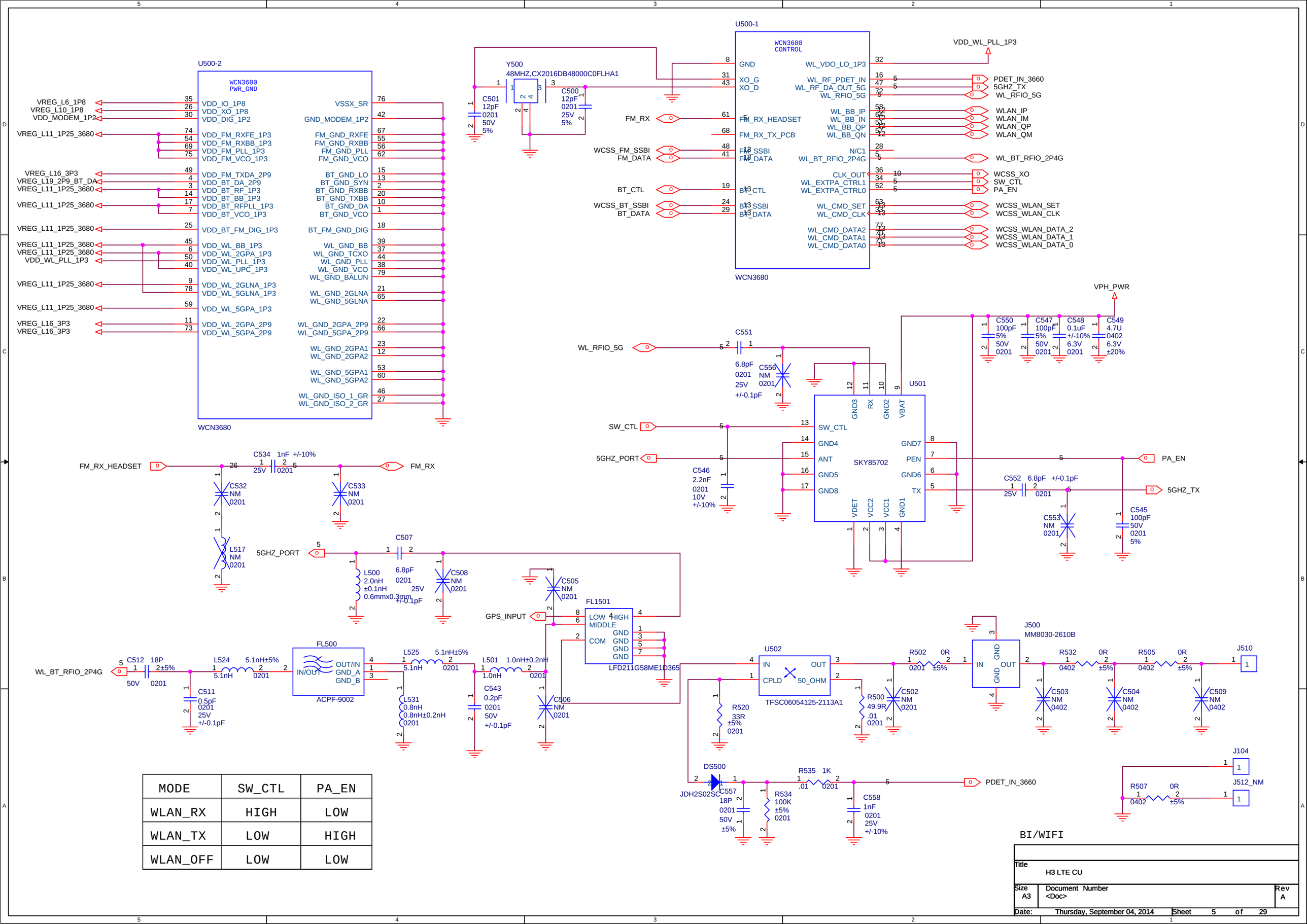

MODE	SW_CTL	PA_EN
WLAN_RX	HIGH	LOW
WLAN_TX	LOW	HIGH
WLAN_OFF	LOW	LOW

BI/WIFI

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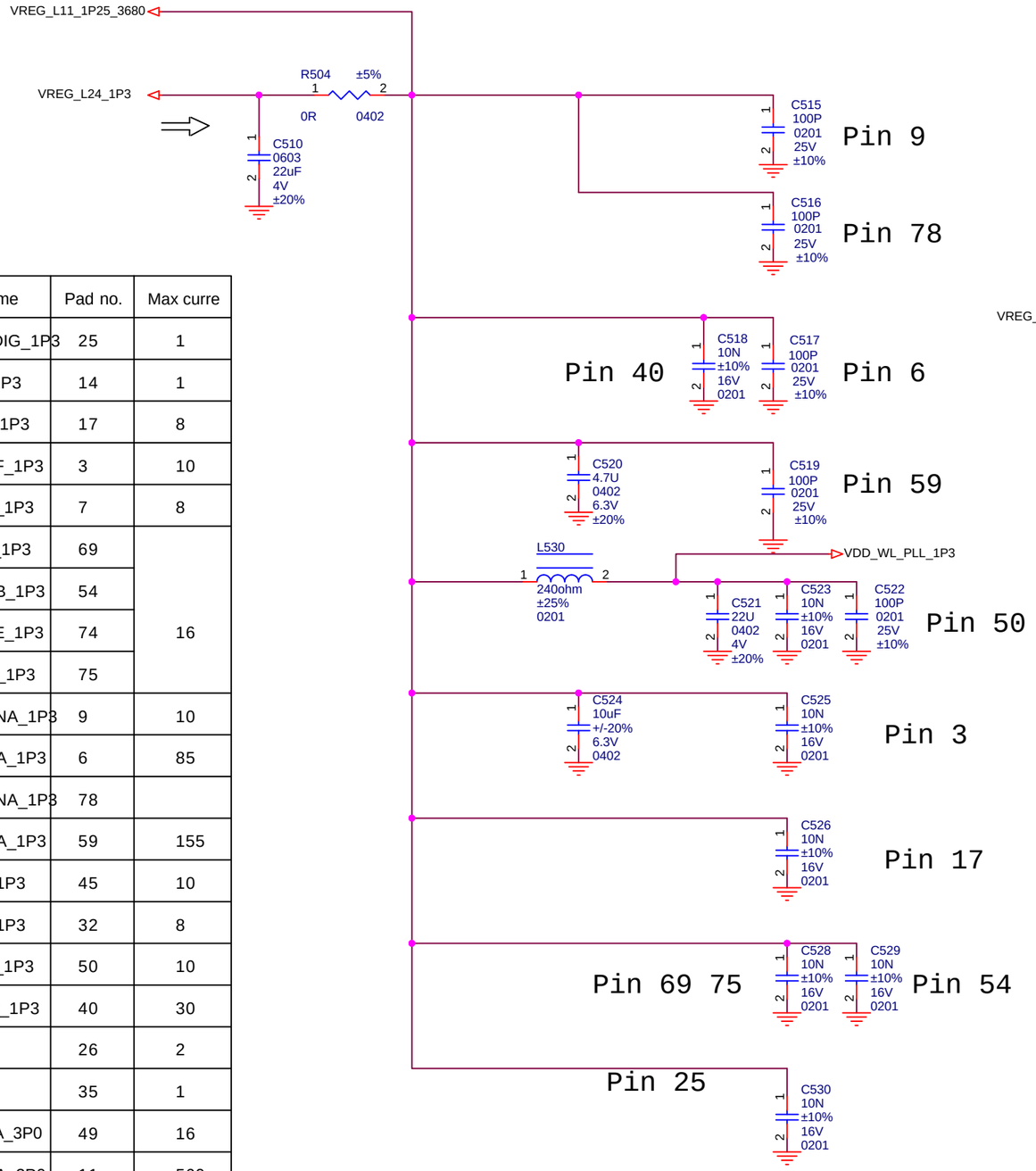
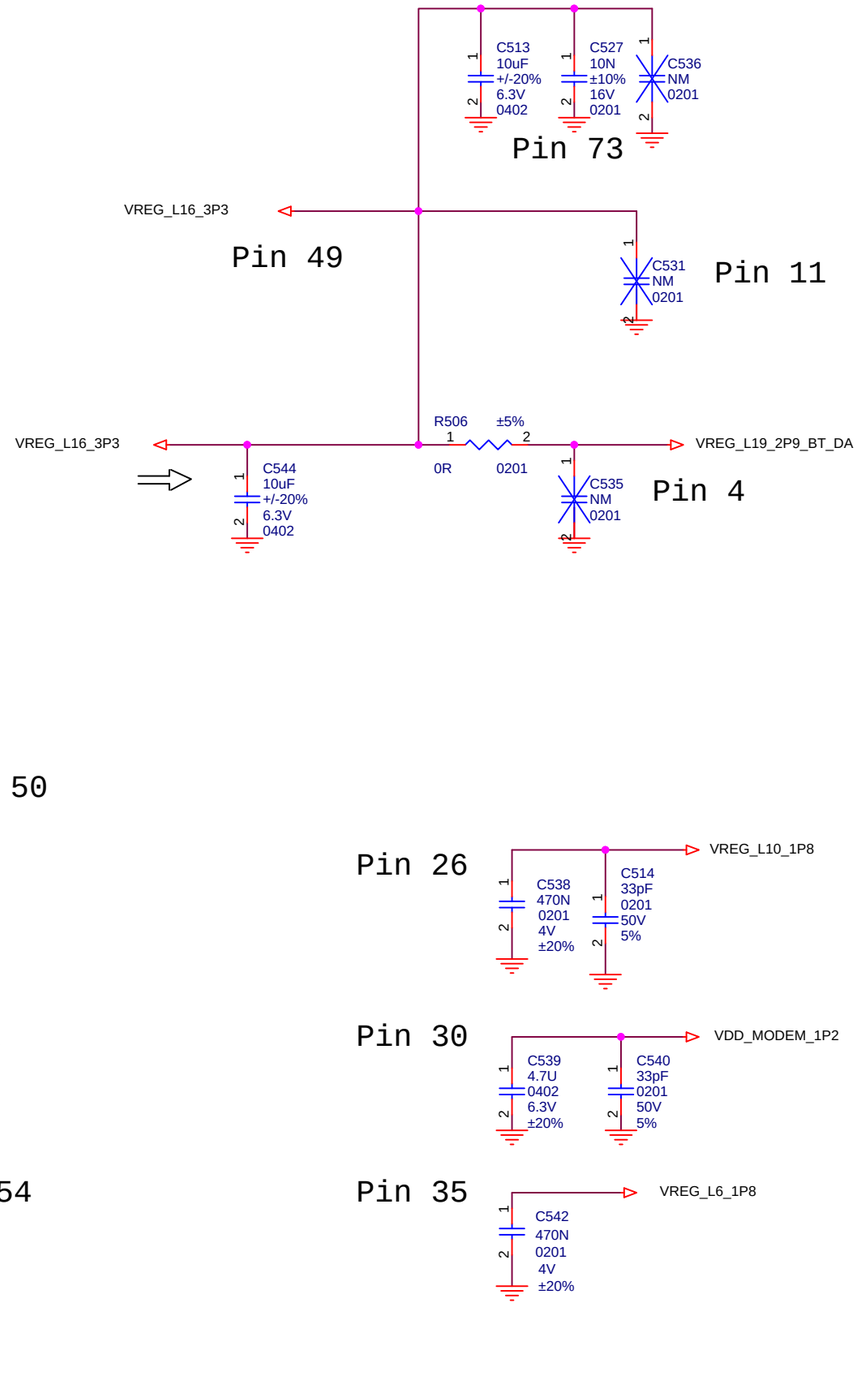
Voltage	Pad name	Pad no.	Max curre
1P3	VDD_BT_FM_DIG_1P3	25	1
	VDD_BT_BB_1P3	14	1
	VDD_BT_PLL_1P3	17	8
	VDD_BT_RXRF_1P3	3	10
	VDD_BT_VCO_1P3	7	8
	VDD_FM_PLL_1P3	69	
	VDD_FM_RXBB_1P3	54	
	VDD_FM_RXFE_1P3	74	16
	VDD_FM_VCO_1P3	75	
	VDD_WL_2GLNA_1P3	9	10
	VDD_WL_2GPA_1P3	6	85
	VDD_WL_5GLNA_1P3	78	
	VDD_WL_5GPA_1P3	59	155
	VDD_WL_BB_1P3	45	10
	VDD_WL_LO_1P3	32	8
	VDD_WL_PLL_1P3	50	10
	VDD_WL_UPC_1P3	40	30
1P8	VDD_XO_1P8	26	2
	VDD_IO_1P8	35	1
3P0	VDD_FM_TXDA_3P0	49	16
	VDD_WL_2GPA_3P0	11	560
	VDD_WL_5GPA_3P0	73	600
	VDD_BT_TXRF_3P0	4	45
1P2	VDD_DIG_1P2	30	4





BT/FM/WLAN DECOUP

Title: H3 LTE CU		
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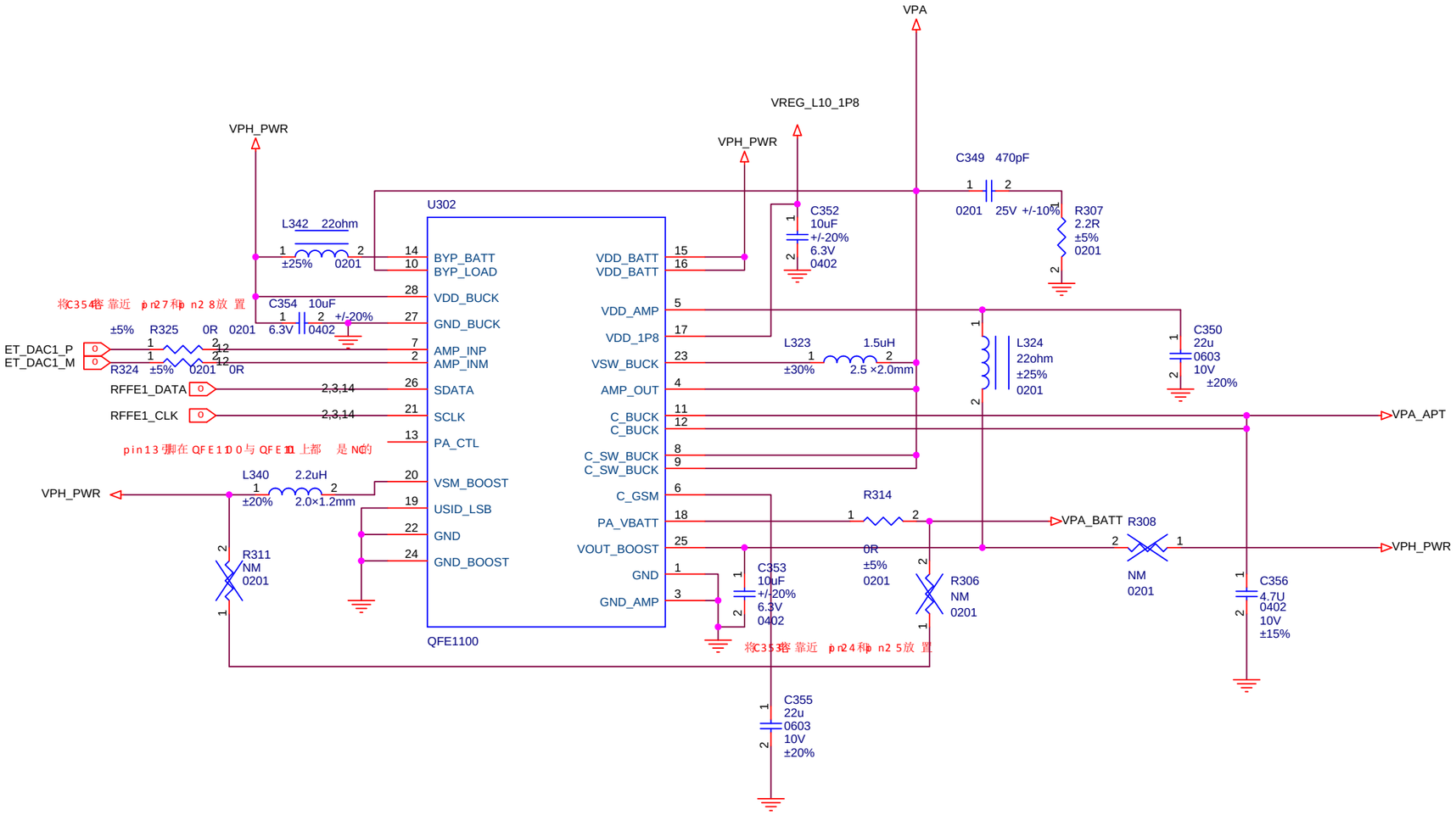

QFE1100

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Size: A3	Document Number: <Doc>	Rev: A
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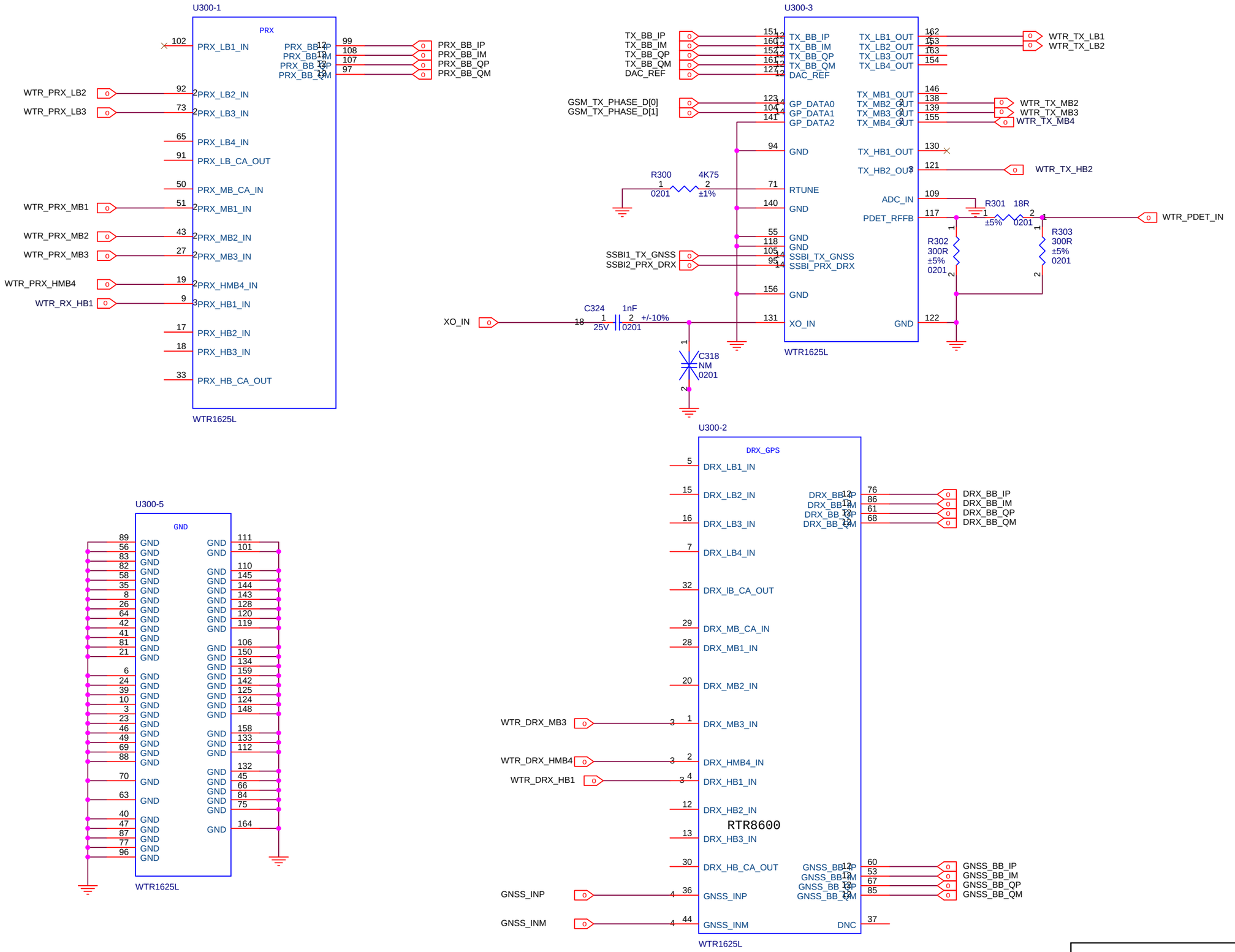

Title	H3 LTE CU	
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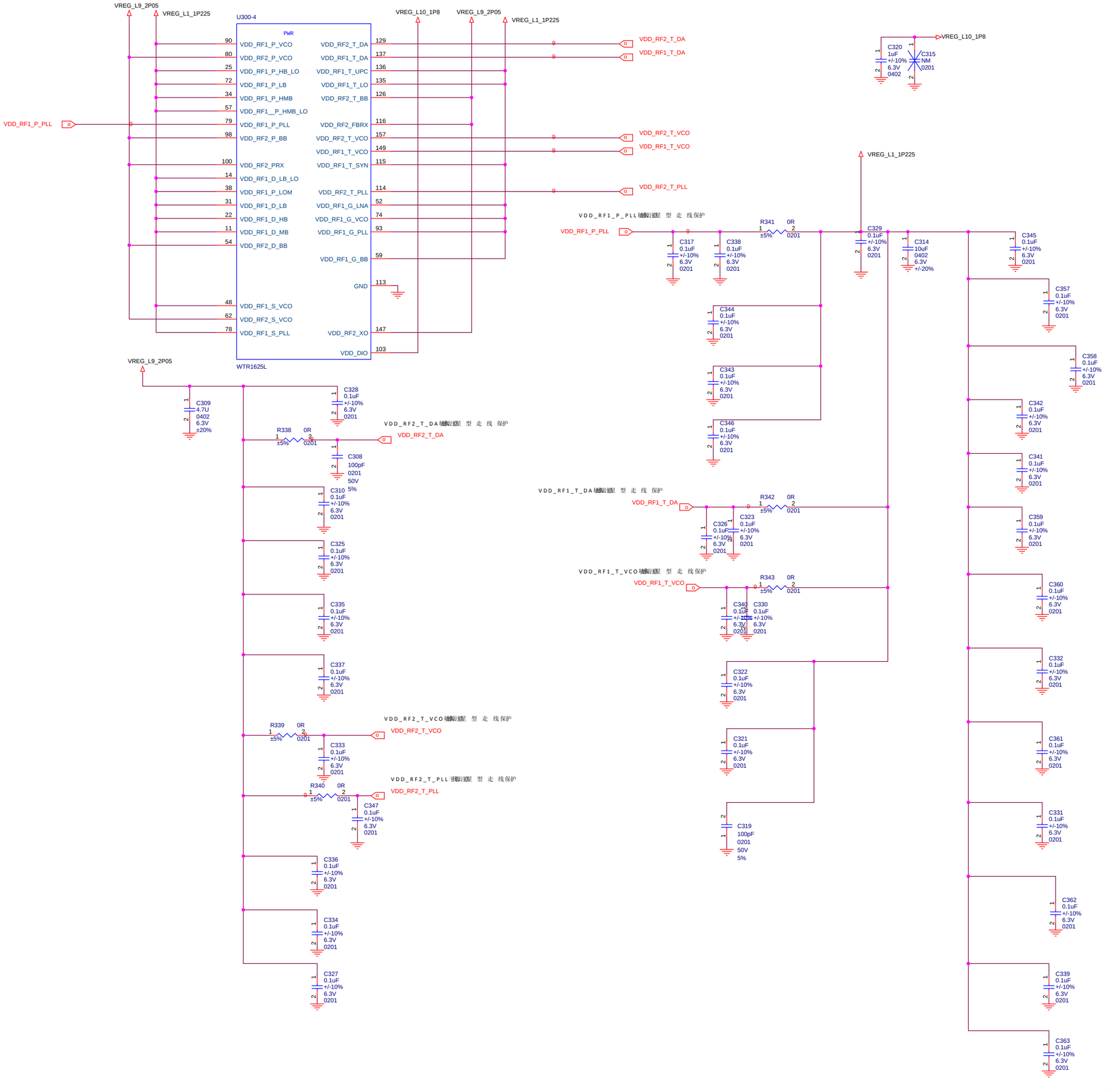

GROUP	NAME	PIN	NET
1	VDD_RF2_D_BB	54	VREG_L15_2P05
2	VDD_RF2_T_DA	129	
3	VDD_RF2_P_BB VDD_RF2_T_BB	98 126	
4	VDD_RF2_P_VCO VDD_RF2_S_VCO VDD_RF2_T_VCO	80 62 157	
5	VDD_RF2_T_PLL	114	
6	VDD_RF2_XO	147	
7	VDD_RF2_FBRX	116	
8	VDD_RF2_PRX	100	
9	VDD_RF1_P_PLL VDD_RF1_S_PLL VDD_RF1_S_VCO VDD_RF1_P_VCO	79 78 48 90	VREG_L4_1P3
10	VDD_RF1_T_DA	137	
11	VDD_RF1_T_VCO VDD_RF1_T_SYN	149 115	
12	VDD_RF1_T_LO VDD_RF1_T_UPC	135 136	
13	VDD_RF1_P_HB_LO	25	
14	VDD_RF1_D_LB	31	
15	VDD_RF1_P_LB	72	
16	VDD_RF1_D_LOM	38	
17	VDD_RF1_D_LB_LO	14	
18	VDD_RF1_D_MB	11	
19	VDD_RF1_D_HB	22	
20	VDD_RF1_P_HMB_LO	57	
21	VDD_RF1_P_HMB	34	
22	VDD_RF1_G_LNA VDD_RF1_G_BB	52 59	
23	VDD_RF1_G_PLL VDD_RF1_G_VCO	93 74	
24	VDD_DIO	103	VREG_S3A_1P8_RF

RTR8600 BYPASS

Title	H3 LTE CU	
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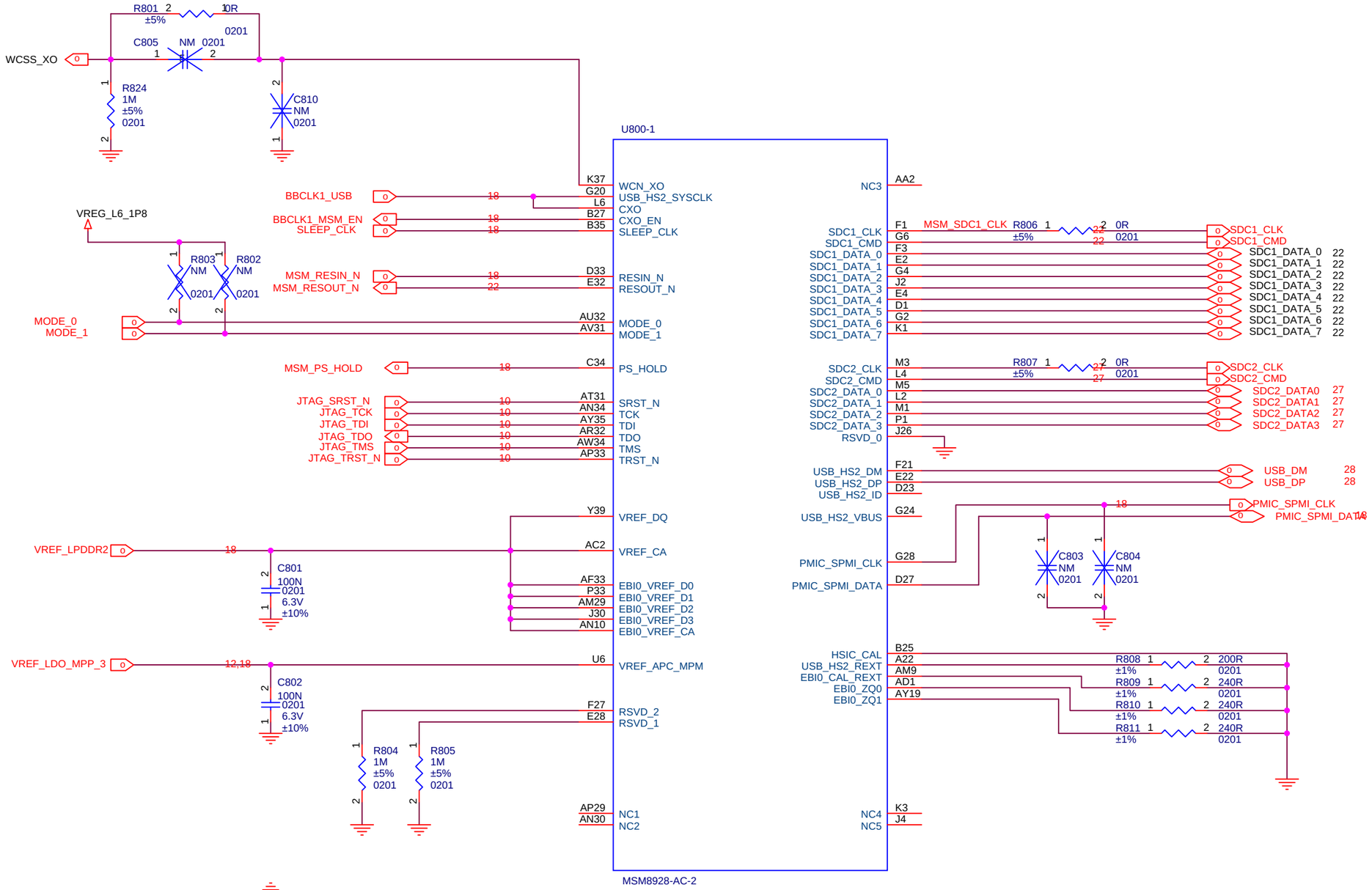

Title	H3 LTE CU	
Size A3	Document Number <Doc>	Rev A
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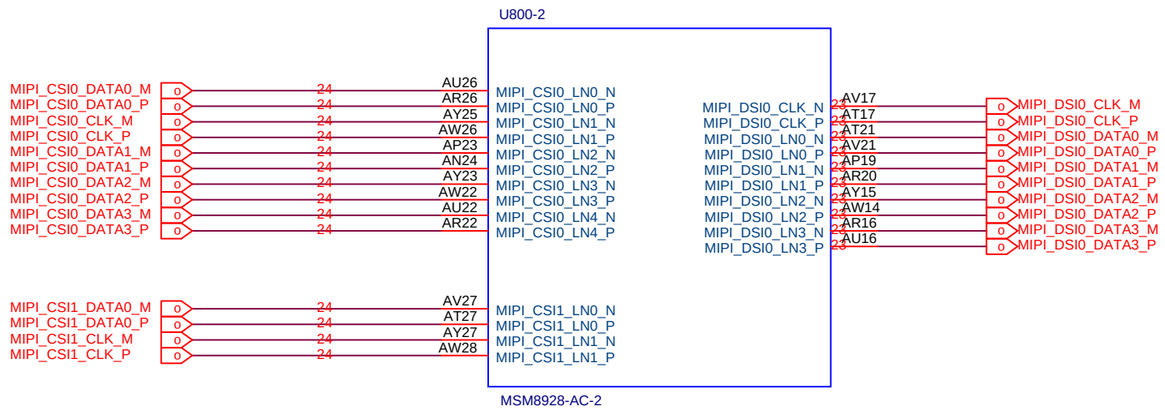
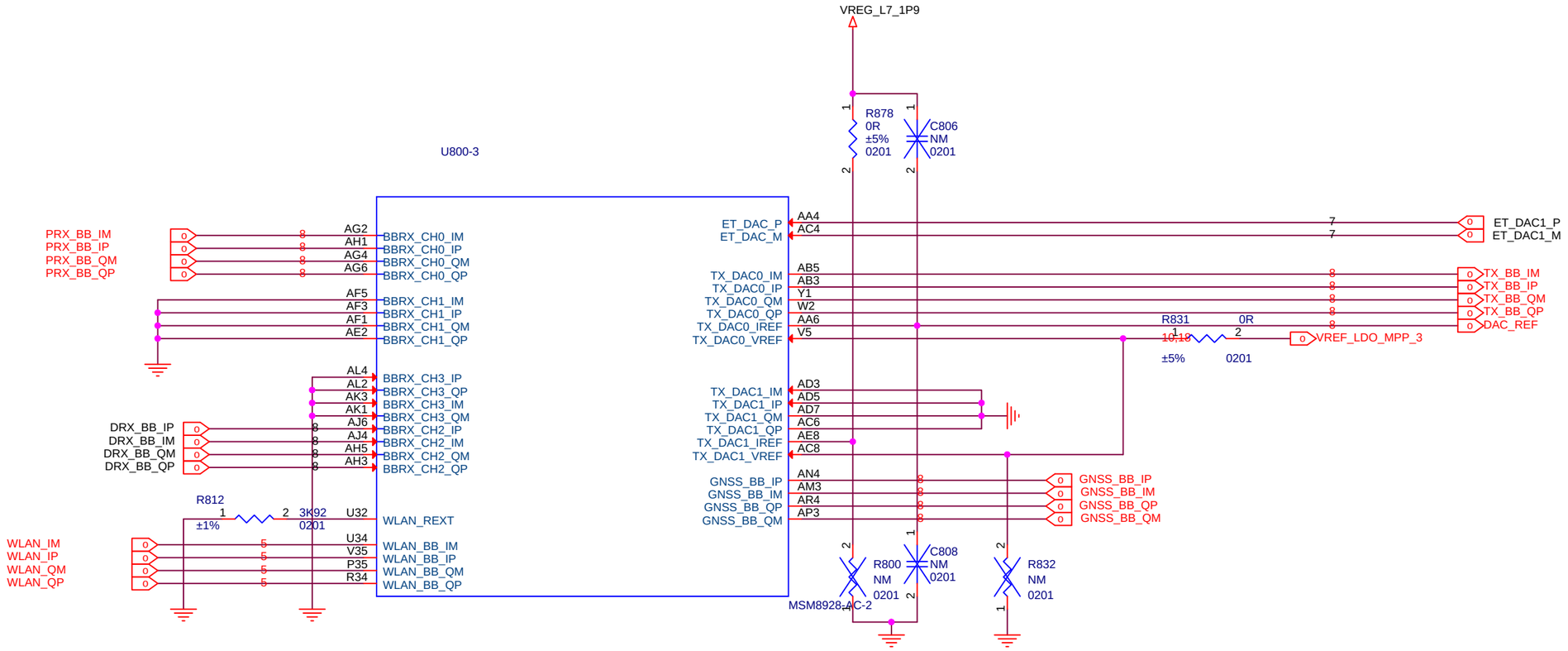


MSM 8628_MIPI

Title: H3 LTE CU		
Size: A3	Document Number: <Doc>	Rev: A
Date: Thursday, September 04, 2014	Sheet 11 of 29	



MSM8628_RF

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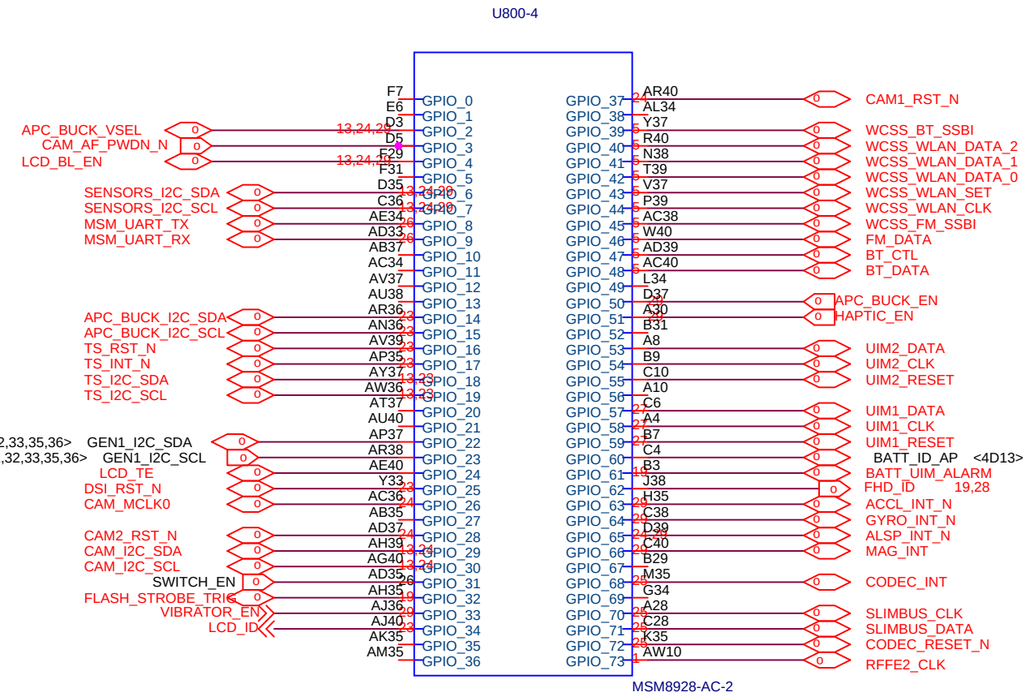
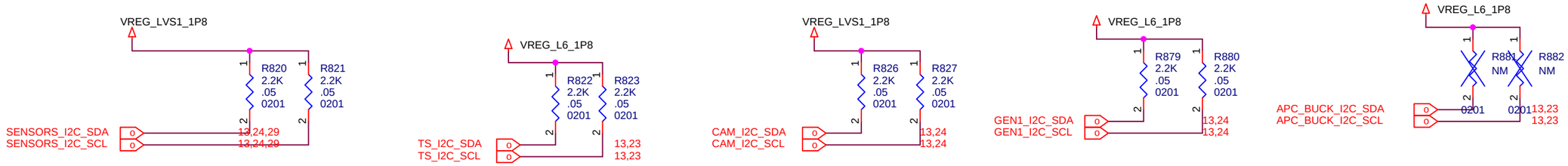
Size: A3	Document Number: <Doc>	Rev: A
Date: Thursday, September 04, 2014	Sheet 12 of 29	





MSM8628_GPIO1

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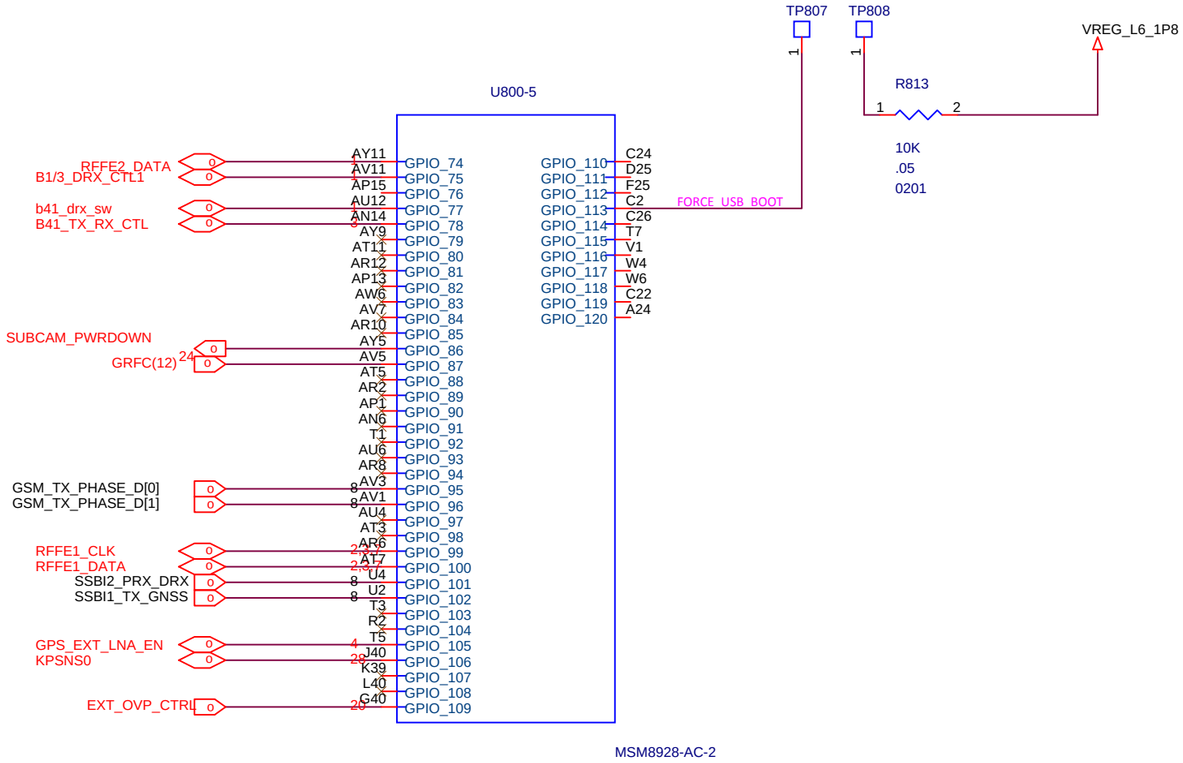
Size: A3	Document Number: <Doc>	Rev: A
Date: Thursday, September 04, 2014	Sheet 13 of 29	



MSM8628_GPIO2

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Size: A3	Document Number: <Doc>	Rev: A
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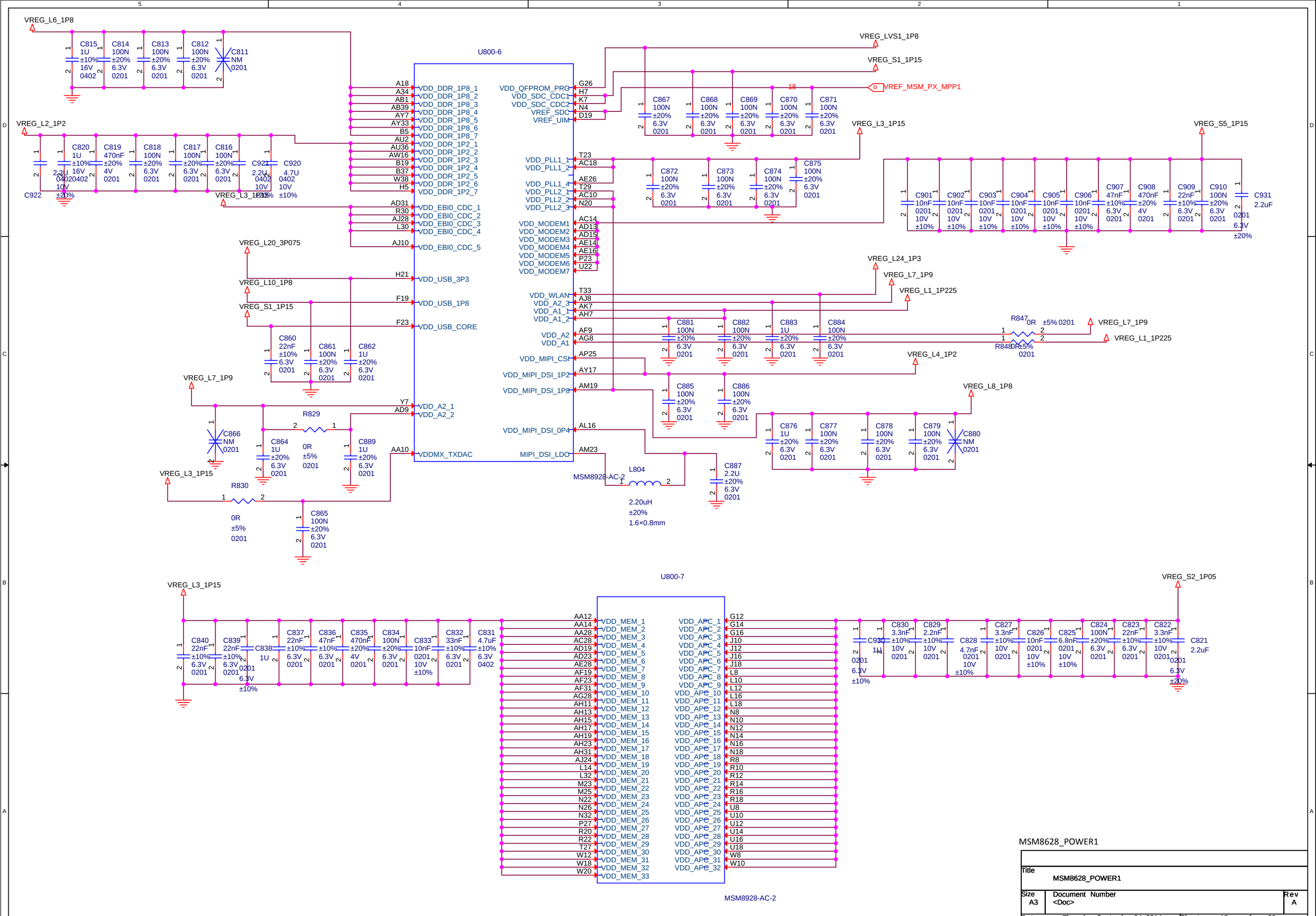
U800-6
VREG_L6_1P8
C815 1U ±10% 16V 0402
C814 100N ±20% 6.3V 0201
C813 100N ±20% 6.3V 0201
C812 100N ±20% 6.3V 0201
C811 NM 0201
VREG_L2_1P2
C820 1U ±10% 16V 0402
C819 470nF ±20% 4V 0201
C818 100N ±20% 6.3V 0201
C817 100N ±20% 6.3V 0201
C816 100N ±20% 6.3V 0201
C921 2.2U 10V ±10%
C920 4.7U 10V ±10%
C922 2.2U 10V ±20%
VREG_L3_1P15
VREG_L20_3P075
VREG_L10_1P8
VREG_S1_1P15
C860 22nF ±10% 6.3V 0201
C861 100N ±20% 6.3V 0201
C862 1U ±20% 6.3V 0201
VREG_L7_1P9
C866 NM 0201
R829
C864 1U ±20% 6.3V 0201
0R ±5% 0201
C889 1U ±20% 6.3V 0201
VREG_L3_1P15
R830
0R ±5% 0201
C865 100N ±20% 6.3V 0201
A18 A34 AB1 AB39 AY7 AY33 B5 AU2 AU36 AW16 B19 B37 W38 H5
VDD_DDR_1P8_1 VDD_DDR_1P8_2 VDD_DDR_1P8_3 VDD_DDR_1P8_4 VDD_DDR_1P8_5 VDD_DDR_1P8_6 VDD_DDR_1P8_7
VDD_DDR_1P2_1 VDD_DDR_1P2_2 VDD_DDR_1P2_3 VDD_DDR_1P2_4 VDD_DDR_1P2_5 VDD_DDR_1P2_6 VDD_DDR_1P2_7
AD31 R30 AJ28 L30
VDD_EBI0_CDC_1 VDD_EBI0_CDC_2 VDD_EBI0_CDC_3 VDD_EBI0_CDC_4
AJ10
VDD_EBI0_CDC_5
H21
VDD_USB_3P3
F19
VDD_USB_1P8
F23
VDD_USB_CORE
Y7 AD9
VDD_A2_1 VDD_A2_2
AA10
VDDMX_TXDAC
VDD_QFPROM_PRG VDD_SDC_CDC1 VDD_SDC_CDC2 VREF_SDC VREF_UIM
G26 H7 K7 N4 D19
VREG_LVS1_1P8
VREG_S1_1P15
VREF_MSM_PX_MPP1
18
C867 100N ±20% 6.3V 0201
C868 100N ±20% 6.3V 0201
C869 100N ±20% 6.3V 0201
C870 100N ±20% 6.3V 0201
C871 100N ±20% 6.3V 0201
VREG_L3_1P15
VREG_S5_1P15
VDD_PLL1_1 VDD_PLL1_2 VDD_PLL1_4 VDD_PLL2_1 VDD_PLL2_2 VDD_PLL2_3
T23 AC18 AE26 T29 AC10 N20
C872 100N ±20% 6.3V 0201
C873 100N ±20% 6.3V 0201
C874 100N ±20% 6.3V 0201
C875 100N ±20% 6.3V 0201
C901 10nF 10V ±10%
C902 10nF 10V ±10%
C903 10nF 10V ±10%
C904 10nF 10V ±10%
C905 10nF 10V ±10%
C906 10nF 10V ±10%
C907 47nF ±10% 6.3V 0201
C908 470nF ±20% 4V 0201
C909 22nF ±10% 6.3V 0201
C910 100N ±20% 6.3V 0201
C931 2.2uF 0201 6.3V ±20%
VDD_MODEM1 VDD_MODEM2 VDD_MODEM3 VDD_MODEM4 VDD_MODEM5 VDD_MODEM6 VDD_MODEM7
AC14 AD13 AD15 AE14 AE16 P23 U22
VREG_L24_1P3
VREG_L7_1P9
VREG_L1_1P225
VDD_WLAN VDD_A2_3 VDD_A1_1 VDD_A1_2
T33 AJ8 AK7 AH7
C881 100N ±20% 6.3V 0201
C882 100N ±20% 6.3V 0201
C883 1U ±20% 6.3V 0201
C884 100N ±20% 6.3V 0201
R847 0R ±5% 0201
R848 0R ±5% 0201
VREG_L7_1P9
VREG_L1_1P225
VDD_A2 VDD_A1
AF9 AG8
VDD_MIPI_CSI
AP25
VREG_L4_1P2
VDD_MIPI_DSI_1P2
AY17
VDD_MIPI_DSI_1P8
AM19
C885 100N ±20% 6.3V 0201
C886 100N ±20% 6.3V 0201
VREG_L8_1P8
VDD_MIPI_DSI_0P4
AL16
MIPI_DSI_LDO
AM23
L804
MSM8928-AC-2
2.20uH ±20% 1.6×0.8mm
C887 2.2U ±20% 6.3V 0201
C876 1U ±20% 6.3V 0201
C877 100N ±20% 6.3V 0201
C878 100N ±20% 6.3V 0201
C879 100N ±20% 6.3V 0201
C880 NM 0201
U800-7
VREG_L3_1P15
VREG_S2_1P05
C840 22nF ±10% 6.3V 0201
C839 22nF ±10% 6.3V 0201
C838 1U 6.3V ±10%
C837 22nF ±10% 6.3V 0201
C836 47nF ±10% 6.3V 0201
C835 470nF ±20% 4V 0201
C834 100N ±20% 6.3V 0201
C833 10nF ±10% 10V 0201
C832 33nF ±10% 6.3V 0201
C831 4.7uF ±10% 6.3V 0402
AA12 AA14 AA28 AC28 AD19 AD23 AE28 AF19 AF23 AF31 AG28 AH11 AH13 AH15 AH17 AH19 AH23 AH31 AJ24 L14 L32 M23 M25 N22 N26 N32 P27 R20 R22 T27 W12 W18 W20
VDD_MEM_1 VDD_MEM_2 VDD_MEM_3 VDD_MEM_4 VDD_MEM_5 VDD_MEM_6 VDD_MEM_7 VDD_MEM_8 VDD_MEM_9 VDD_MEM_10 VDD_MEM_11 VDD_MEM_12 VDD_MEM_13 VDD_MEM_14 VDD_MEM_15 VDD_MEM_16 VDD_MEM_17 VDD_MEM_18 VDD_MEM_19 VDD_MEM_20 VDD_MEM_21 VDD_MEM_22 VDD_MEM_23 VDD_MEM_24 VDD_MEM_25 VDD_MEM_26 VDD_MEM_27 VDD_MEM_28 VDD_MEM_29 VDD_MEM_30 VDD_MEM_31 VDD_MEM_32 VDD_MEM_33
VDD_APC_1 VDD_APC_2 VDD_APC_3 VDD_APC_4 VDD_APC_5 VDD_APC_6 VDD_APC_7 VDD_APC_8 VDD_APC_9 VDD_APE_10 VDD_APE_11 VDD_APE_12 VDD_APE_13 VDD_APE_14 VDD_APE_15 VDD_APE_16 VDD_APE_17 VDD_APE_18 VDD_APE_19 VDD_APE_20 VDD_APE_21 VDD_APE_22 VDD_APE_23 VDD_APE_24 VDD_APE_25 VDD_APE_26 VDD_APE_27 VDD_APE_28 VDD_APE_29 VDD_APE_30 VDD_APE_31 VDD_APE_32
G12 G14 G16 J10 J12 J16 J18 L8 L10 L12 L16 L18 N8 N10 N12 N14 N16 N18 R8 R10 R12 R14 R16 R18 U8 U10 U12 U14 U16 U18 W8 W10
C930 1U 0201 6.3V ±10%
C830 3.3nF ±10% 10V 0201
C829 2.2nF ±10% 10V 0201
C828 4.7nF 0201 10V ±10%
C827 3.3nF ±10% 10V 0201
C826 10nF 0201 10V ±10%
C825 6.8nF 0201 10V ±10%
C824 100N ±20% 6.3V 0201
C823 22nF ±10% 6.3V 0201
C822 3.3nF ±10% 10V 0201
C821 2.2uF 0201 6.3V ±20%
MSM8928-AC-2
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Title
MSM8628_POWER1
Size A3
Document Number <Doc>
Rev A
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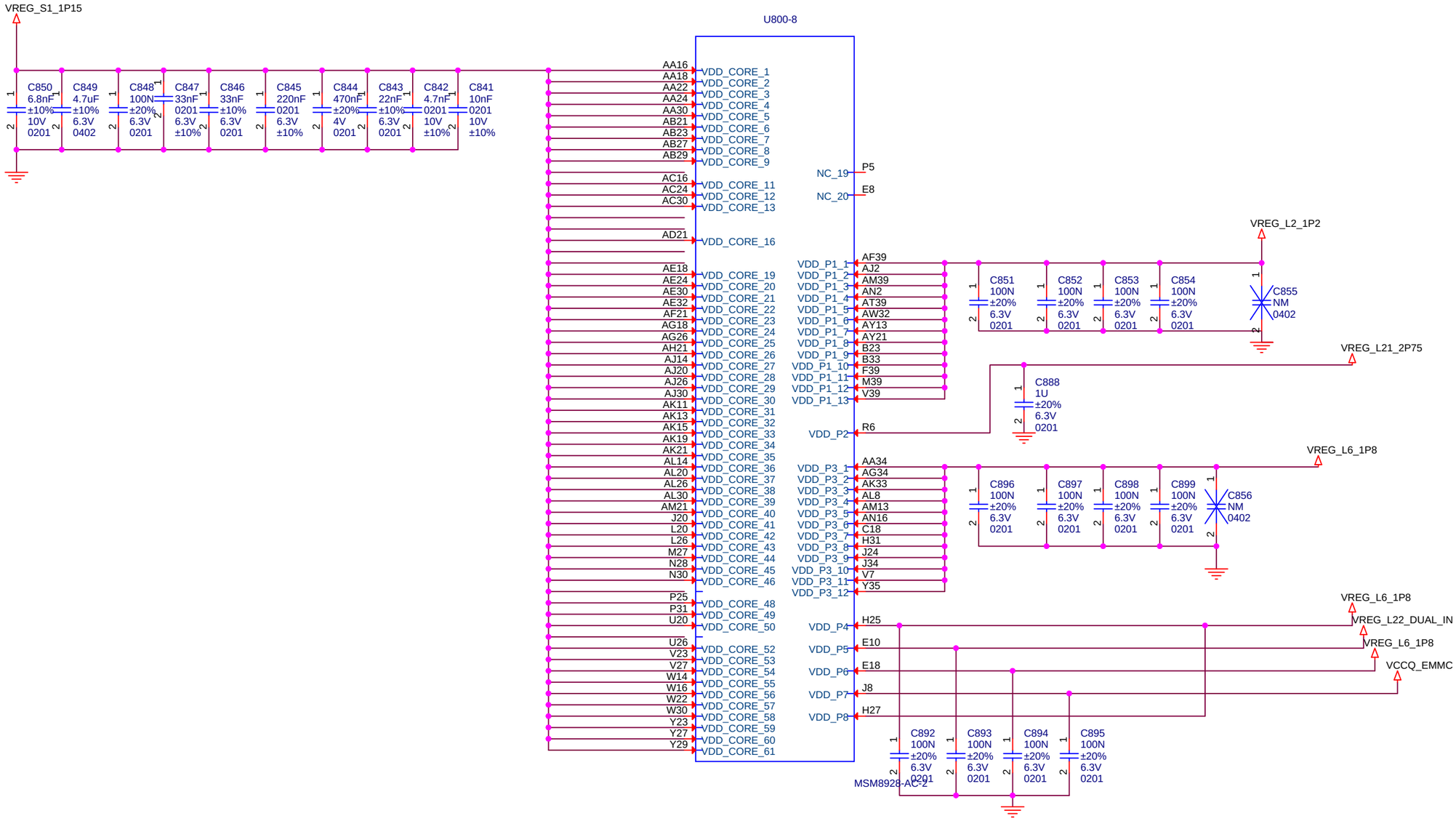
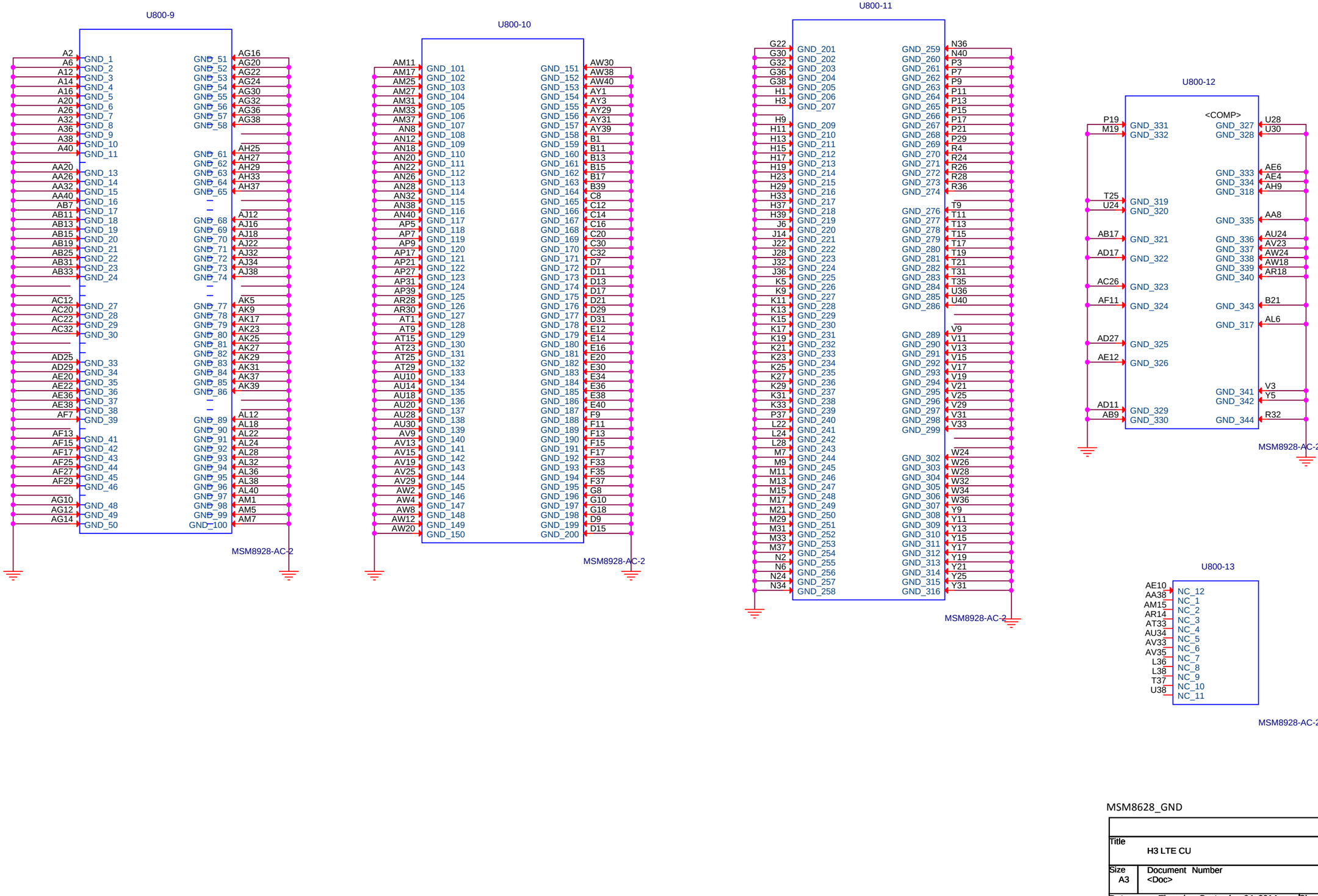
Sheet 15 of 29



MSM8628_POWER2

Title: H3 LTE CU		
Size: A3	Document Number: <Doc>	Rev: A
Date: Thursday, September 04, 2014	Sheet 16 of 29	



MSM8628_GND

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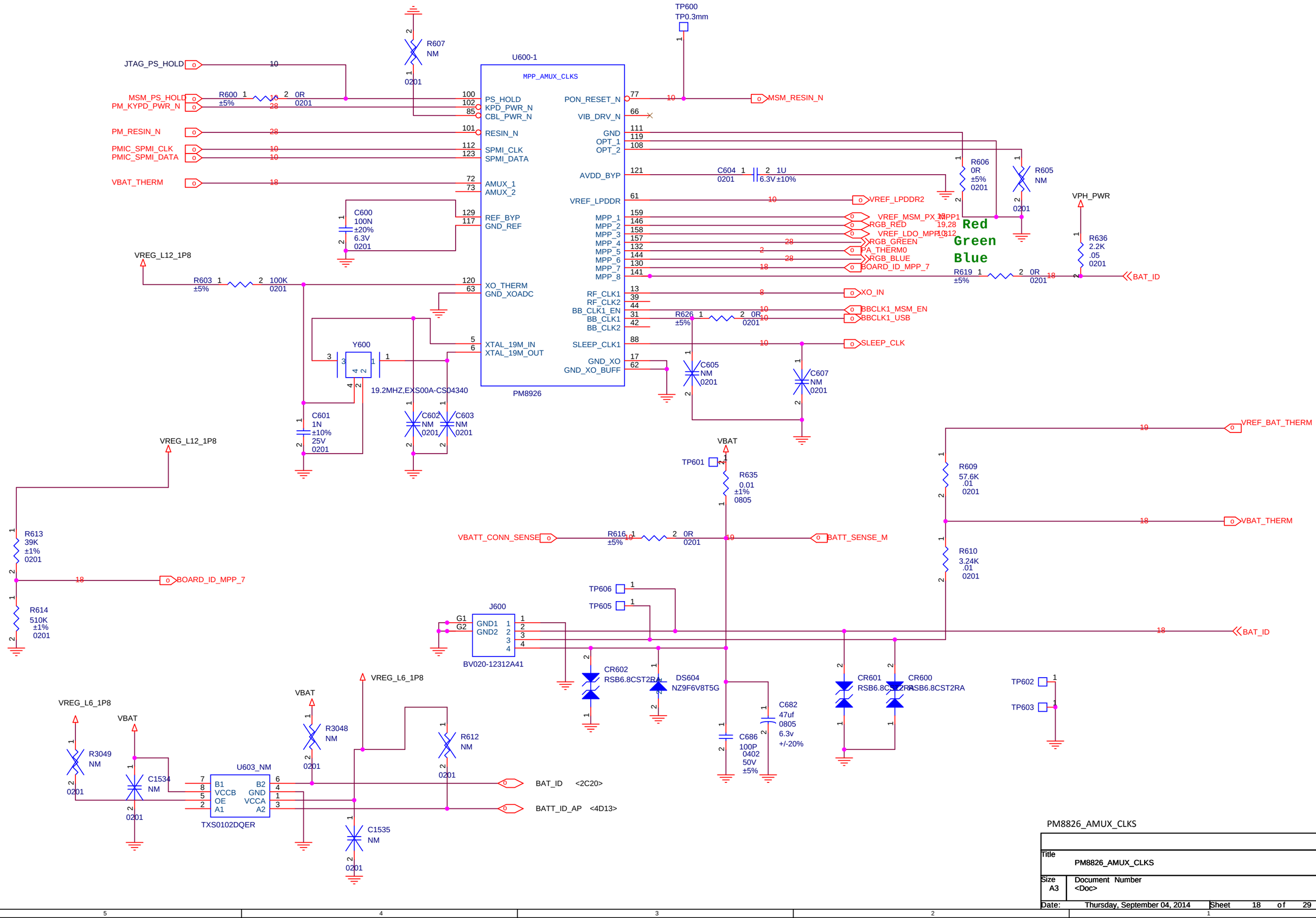
Size A3	Document Number <Doc>	Rev A
Date: Thursday, September 04, 2014	Sheet 17 of 29	



PM8826_AMUX_CLKS

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Size A3	Document Number <Doc>	Rev A
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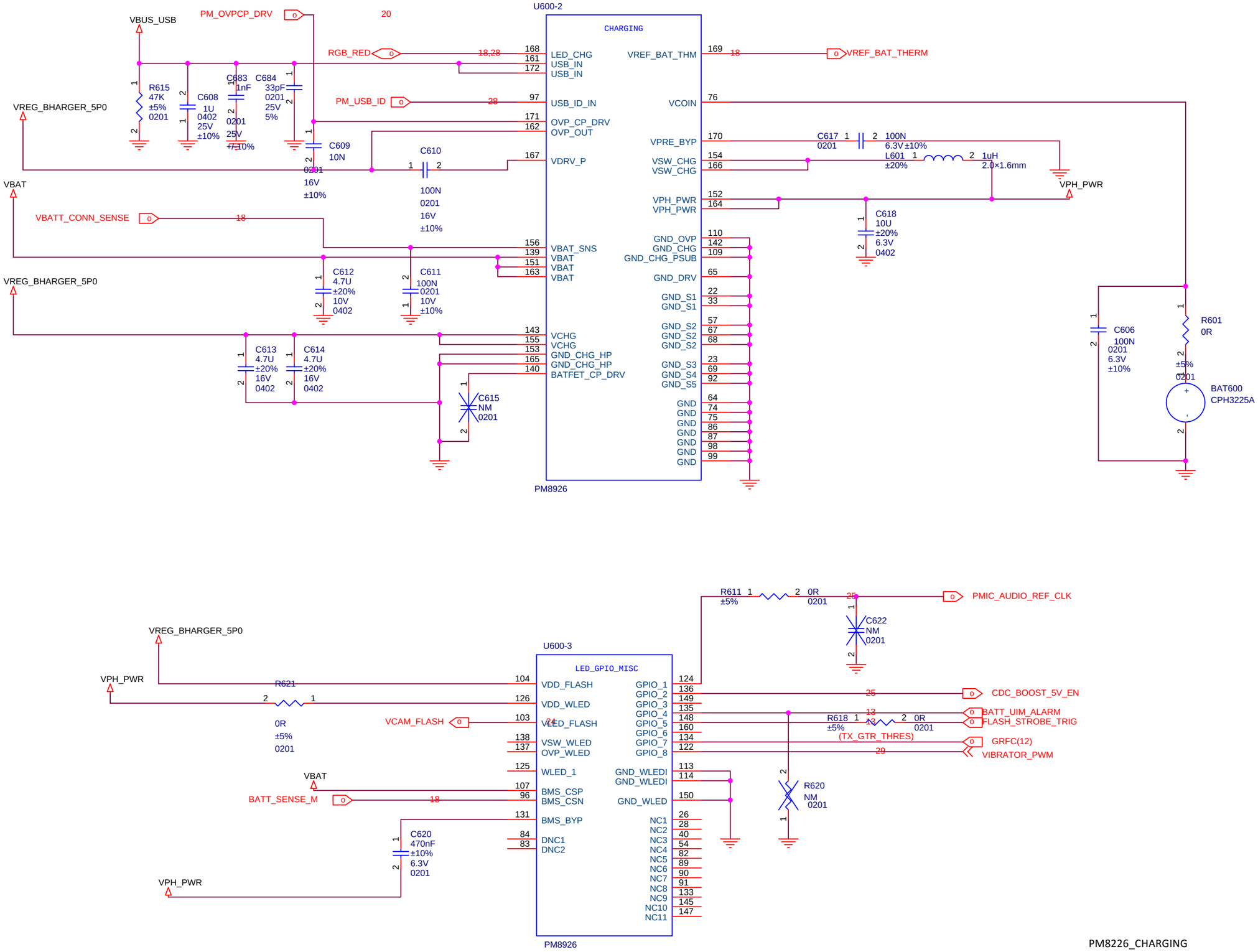

PM8226_CHARGING

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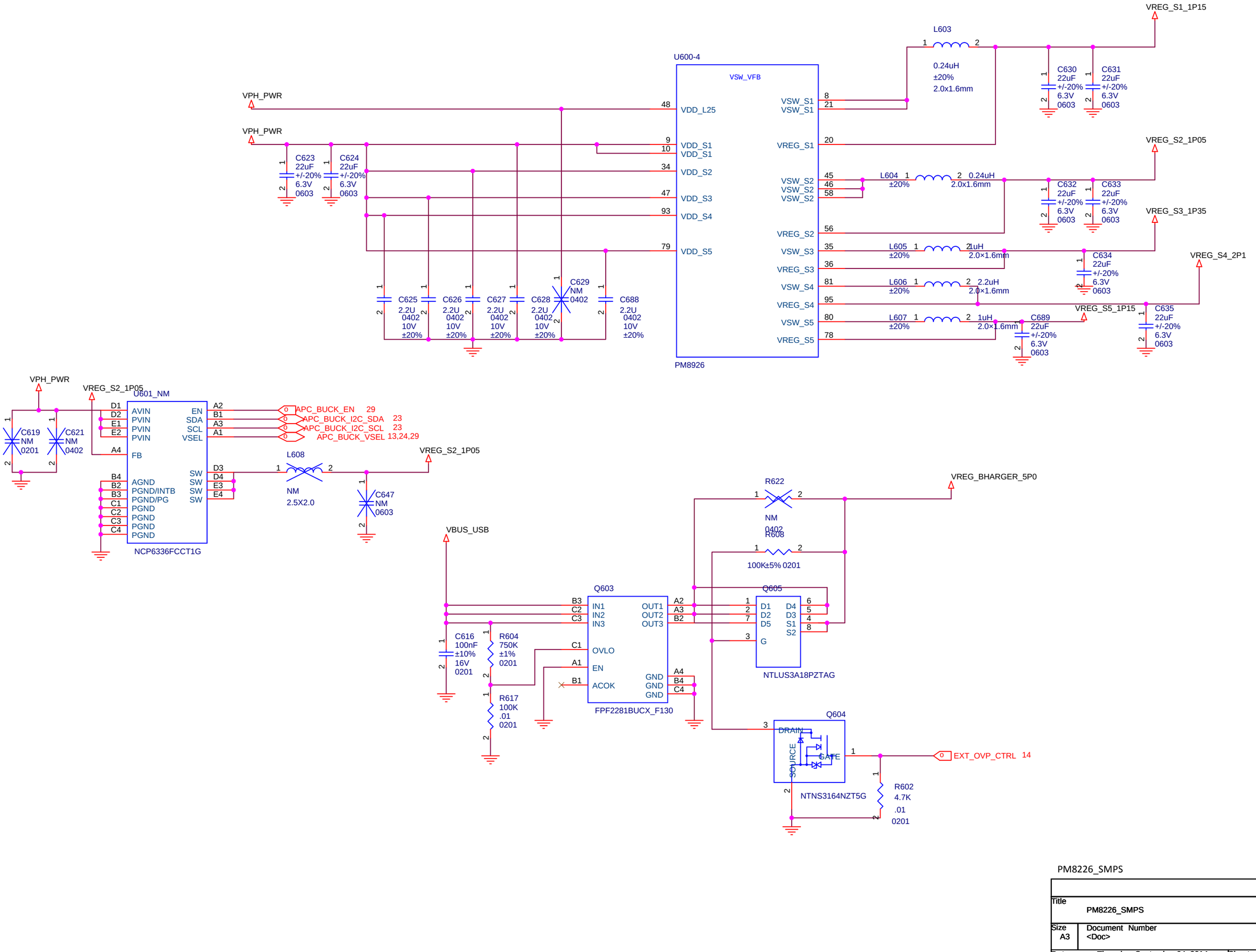
Size: A3	Document Number: <Doc>	Rev: A
Date: Thursday, September 04, 2014	Sheet 19 of 29	



PM8226_SMPS

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Size: A3	Document Number: <Doc>	Rev: A
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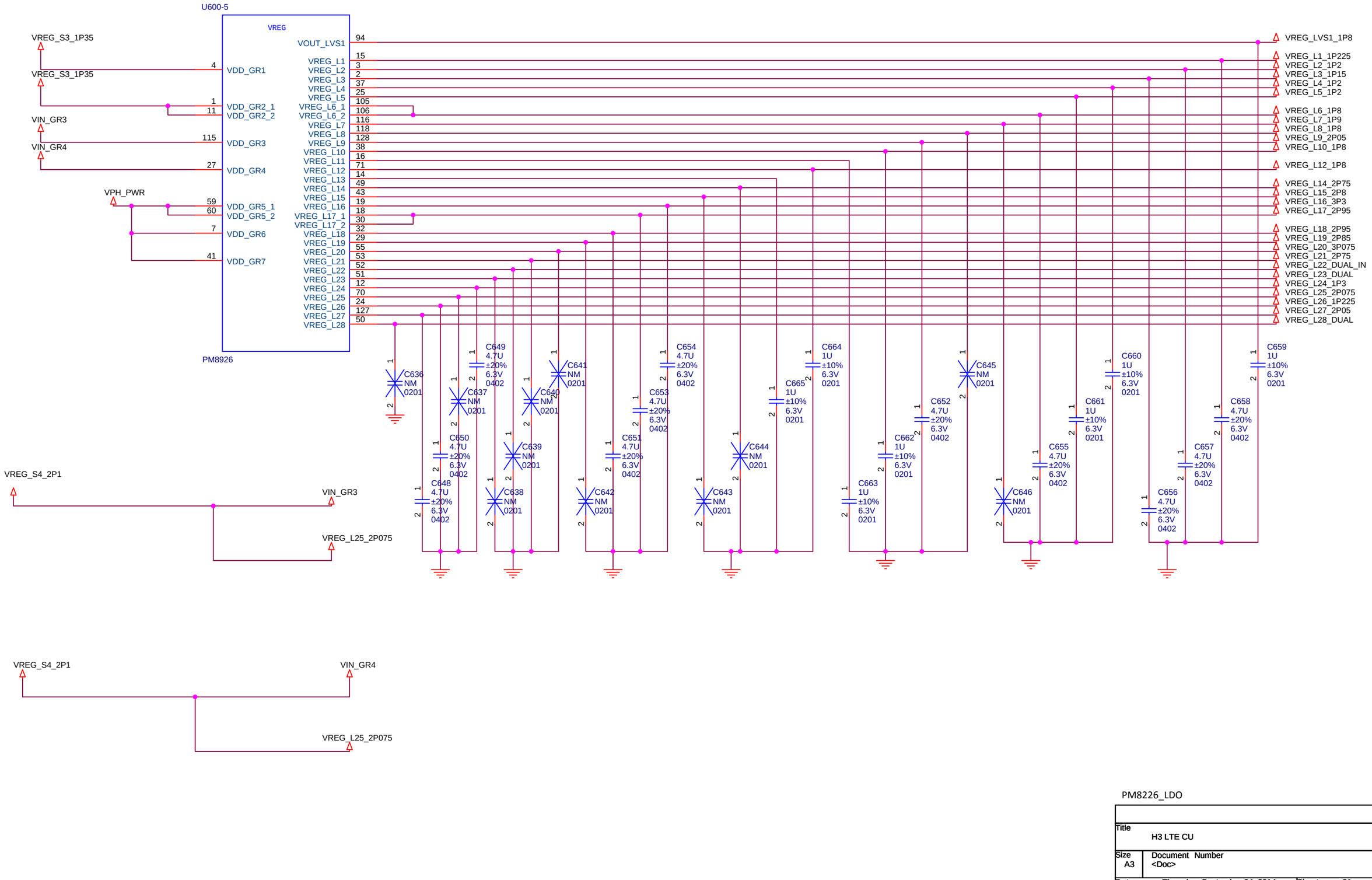

PM8226_LDO

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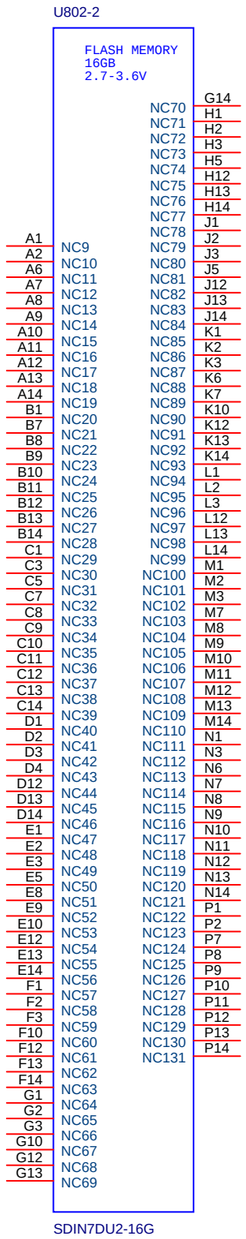
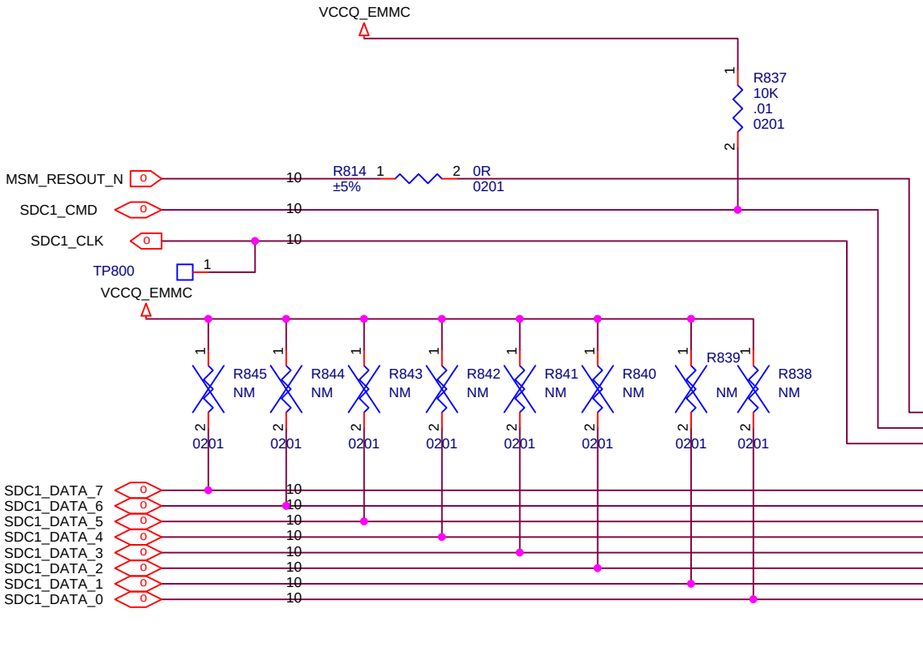
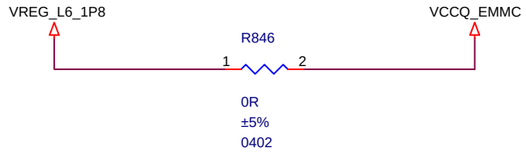
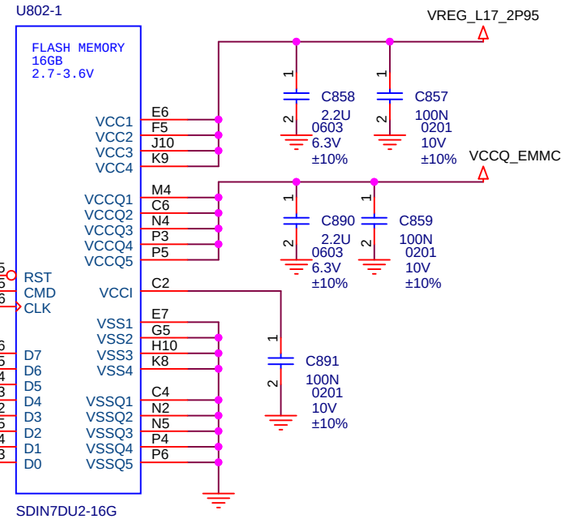
Size: A3	Document Number: <Doc>	Rev: A
Date: Thursday, September 04, 2014	Sheet 21 of 29	









MEMORY_EMMC

Title: MEMORY_EMMC		
Size: A3	Document Number: <Doc>	Rev: A
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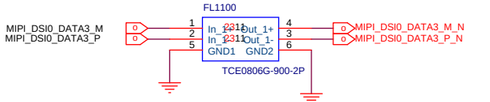
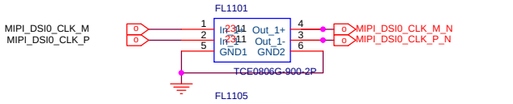
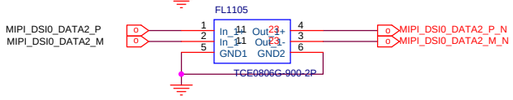
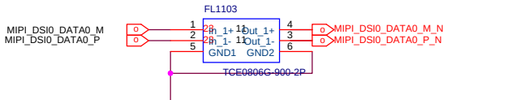
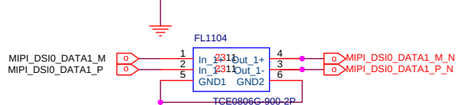
Main LCM

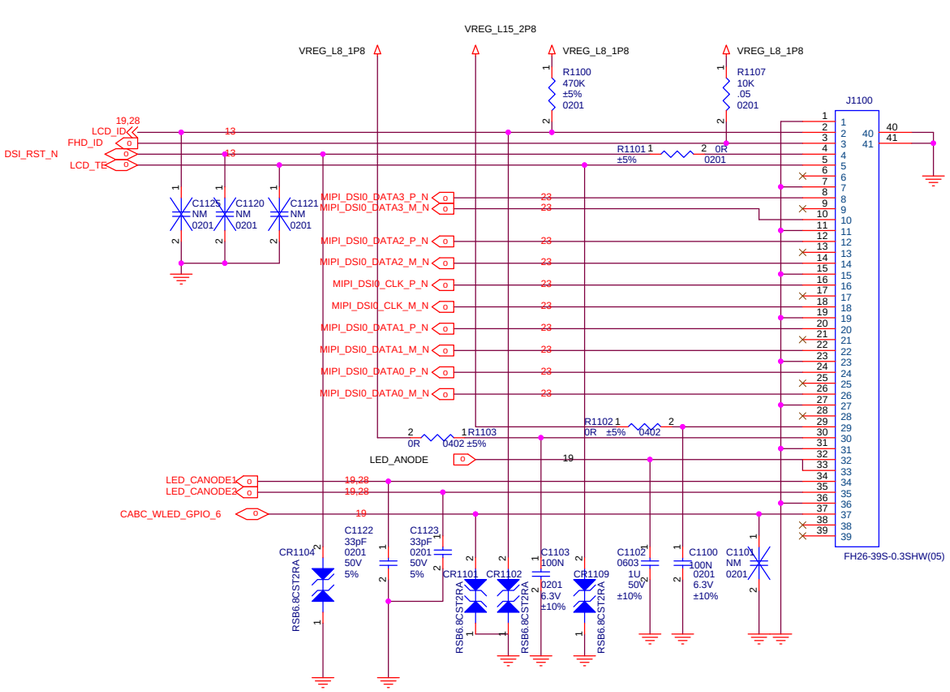




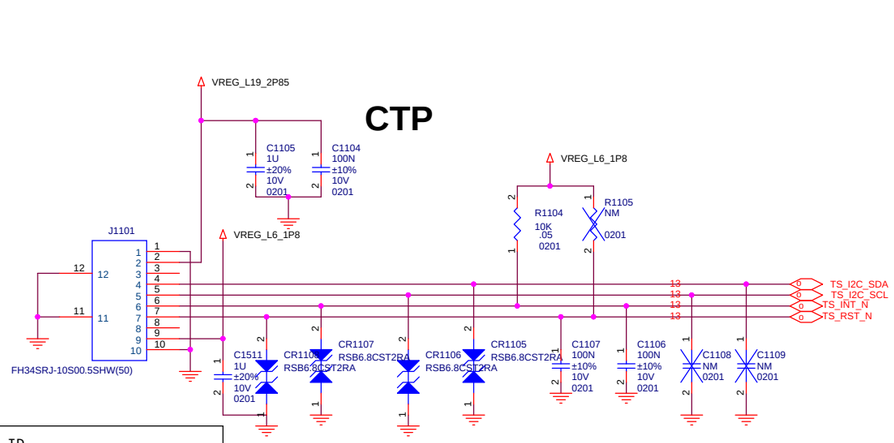






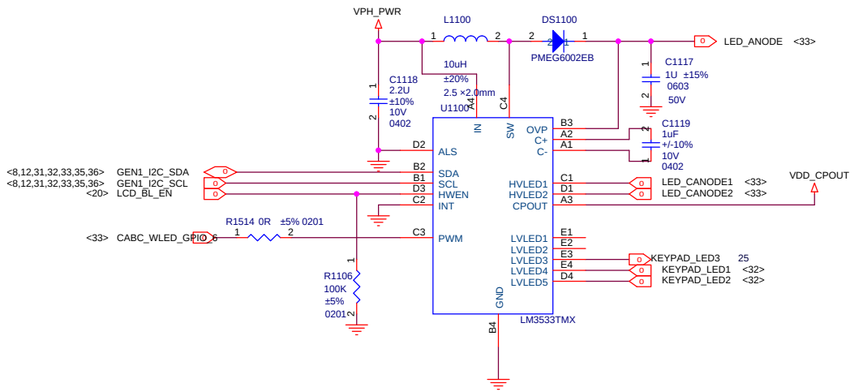


CTP



I2C ID
0xBA (power on @INT=low)
0x28 (power on @INT=high)

Sensor ID (identify different TP module)
OPT1/OPT2 need to connect to TP
(please refer to Goodix design notice)



LCD_CTP

Title	LCD_CTP	
Size A2	Document Number <Doc>	Rev A
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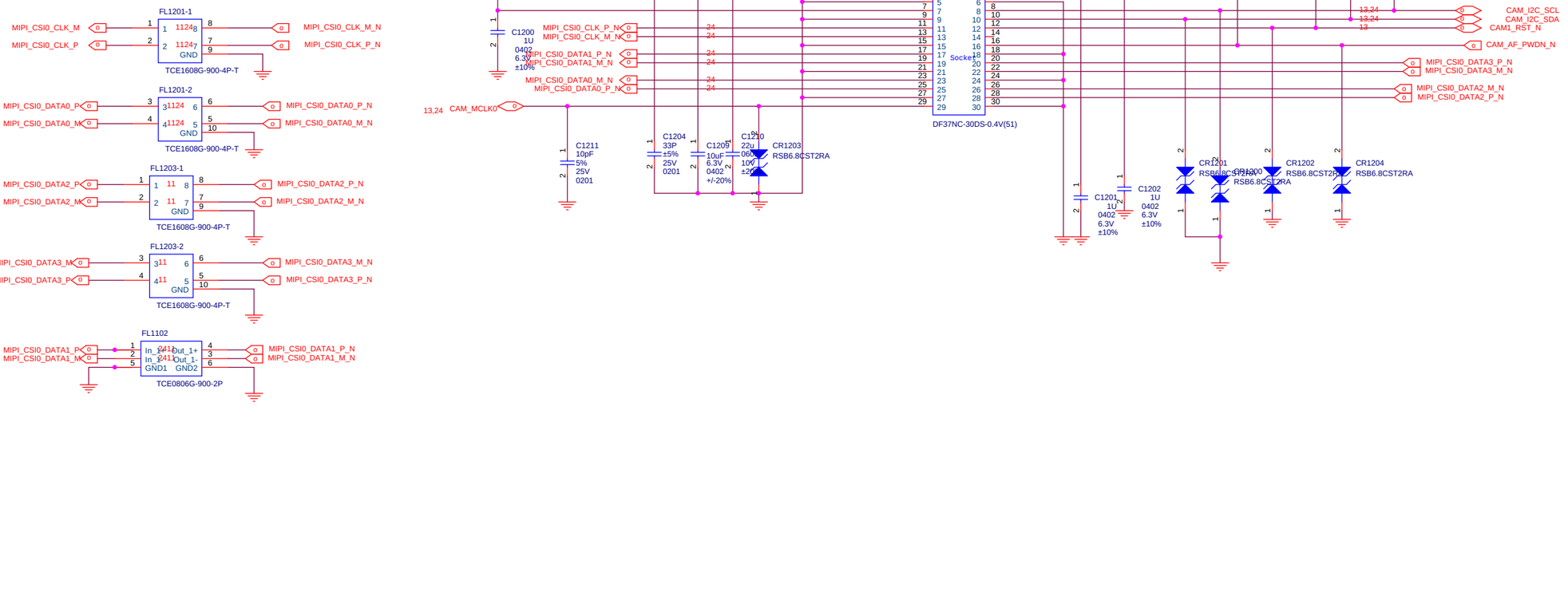
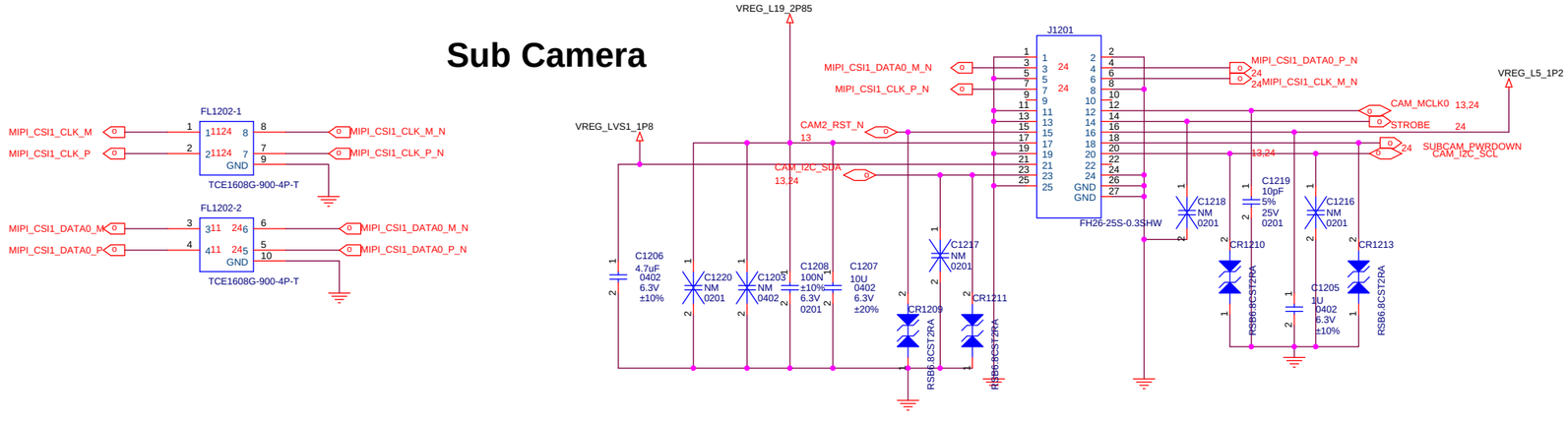
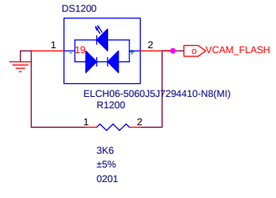
Main Camera



Sub Camera



FlashLED



Camera

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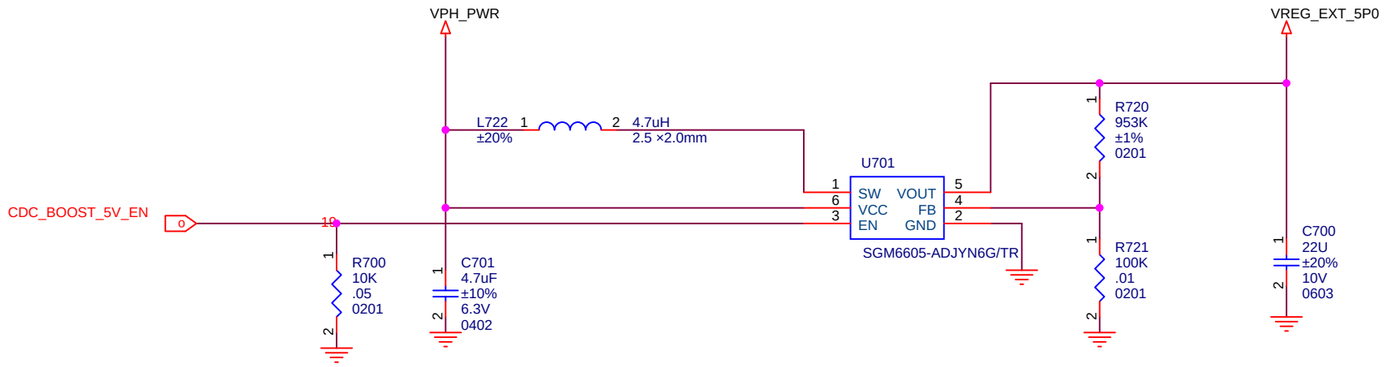
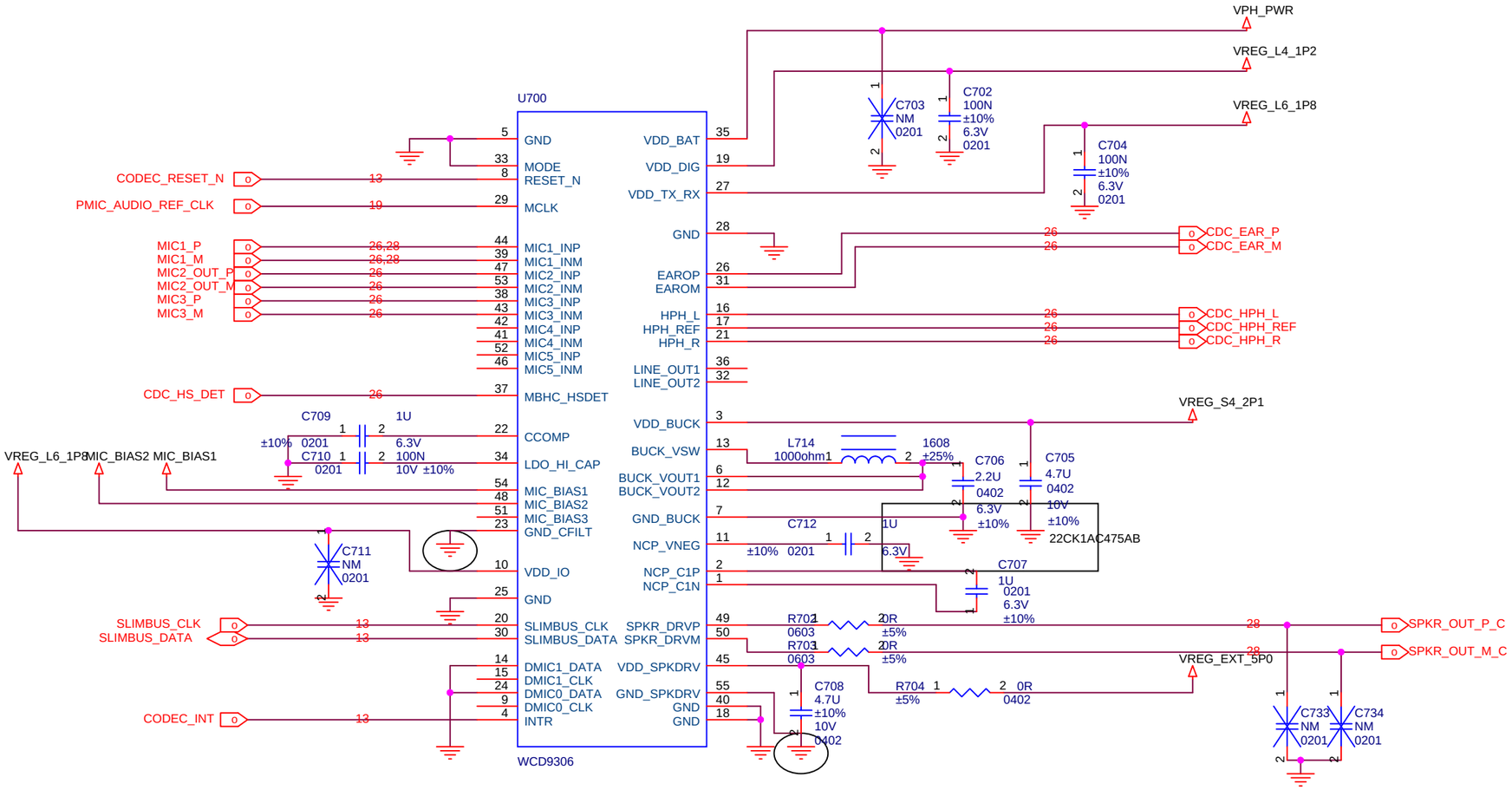
CDC_LDO



CODEC



WCD9306

Title: H3 LTE CU		
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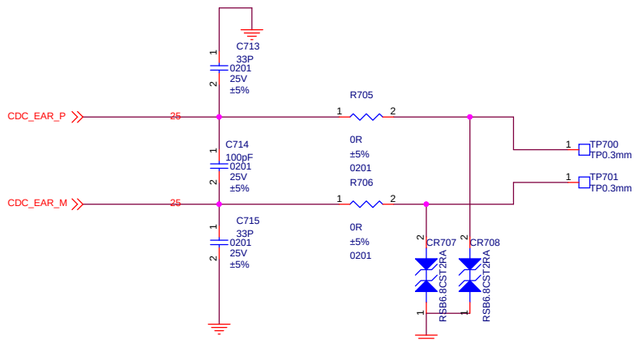
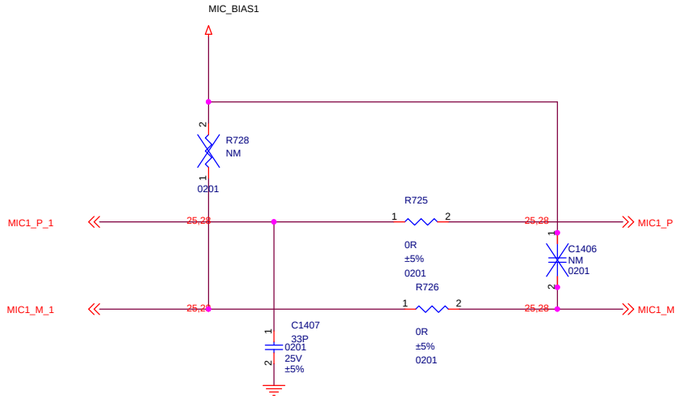
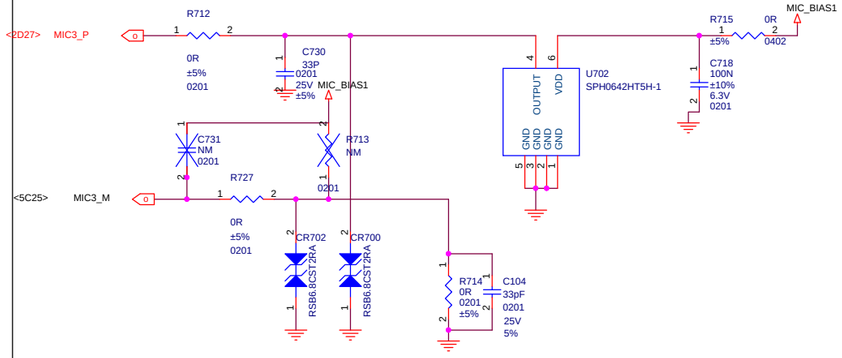
Receiver



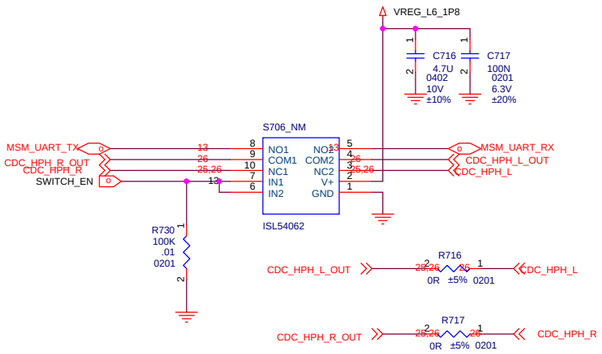
Main Microphone



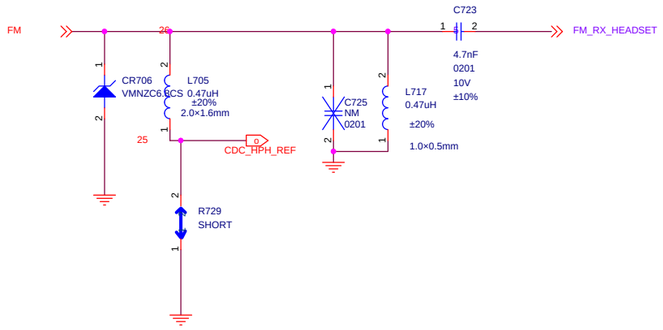
Handset Microphone 2



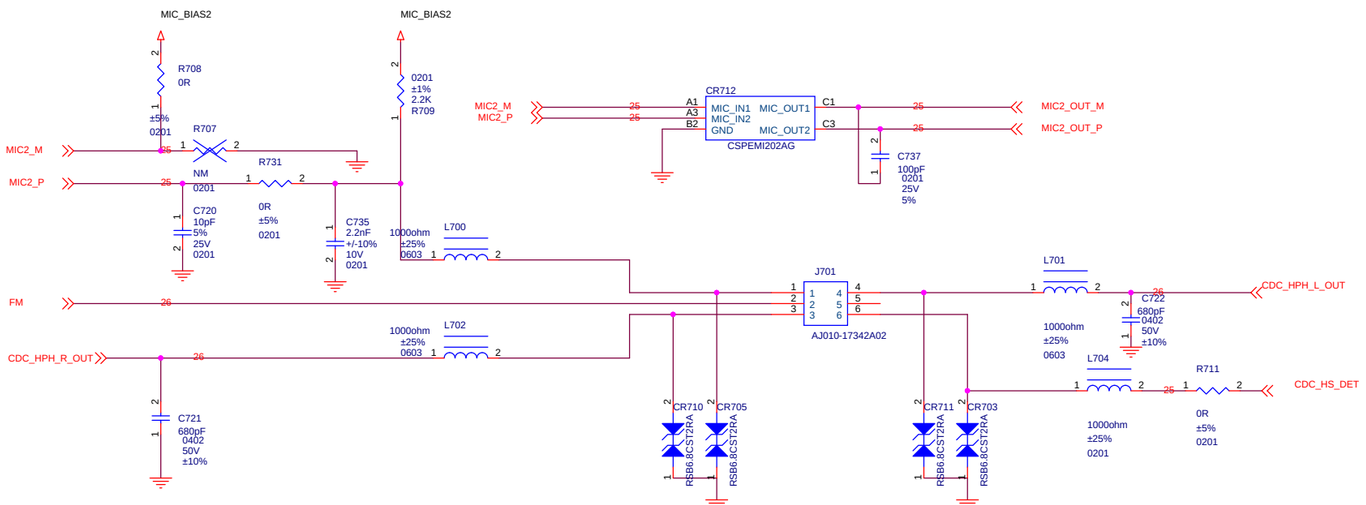
Headset debug



FM



Earphone Audio



AUDIO

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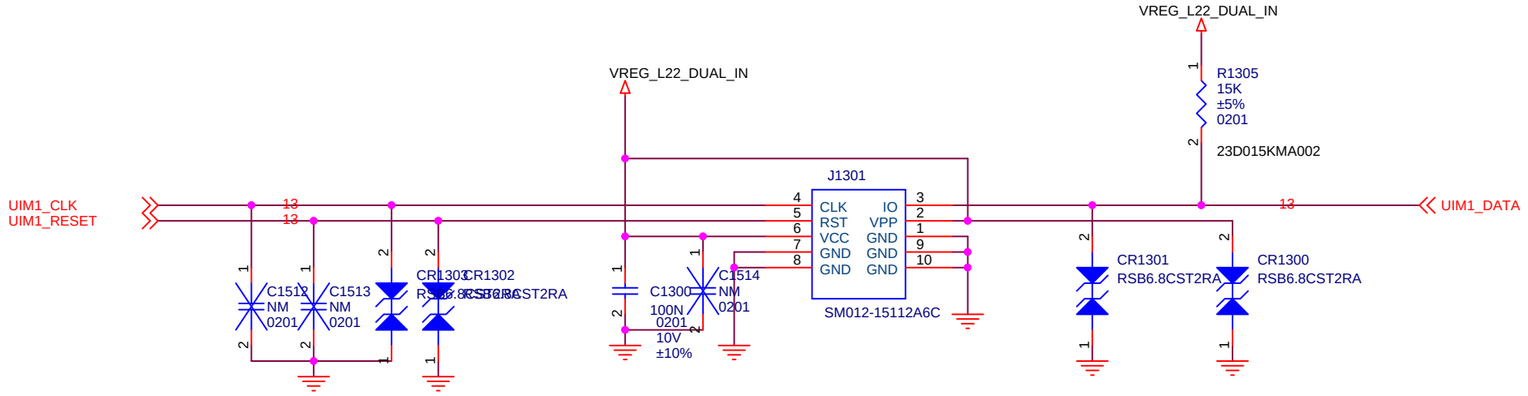
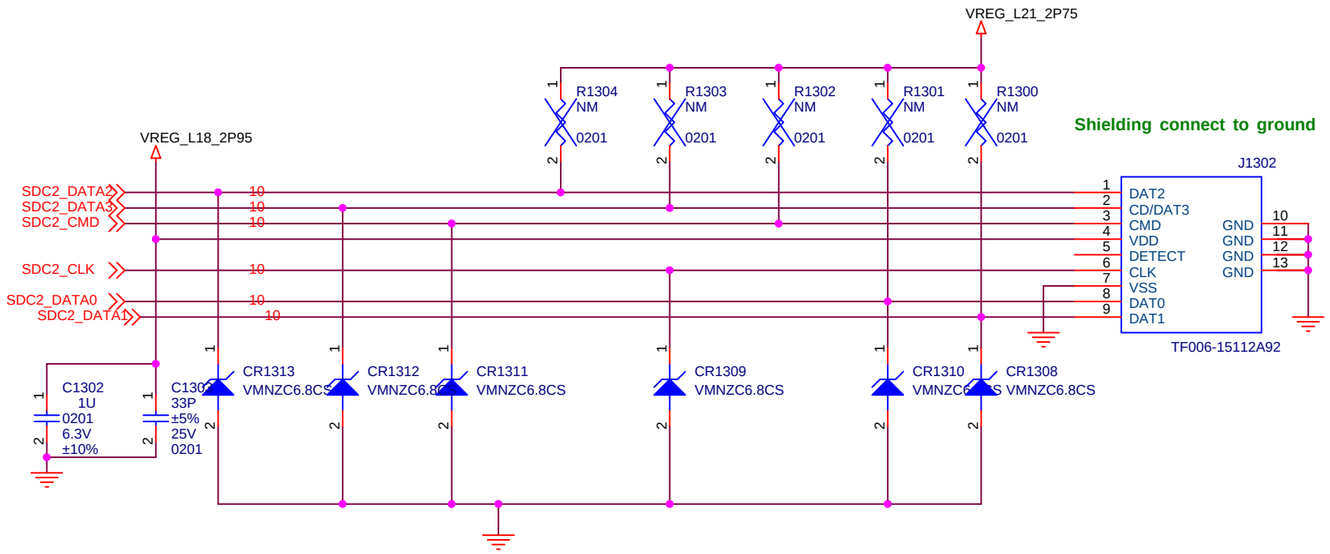
SIMCARD



SD CARD



SIM&SDCARD

Title: H3 LTE CU		
Size: A3	Document Number: <Doc>	Rev: A
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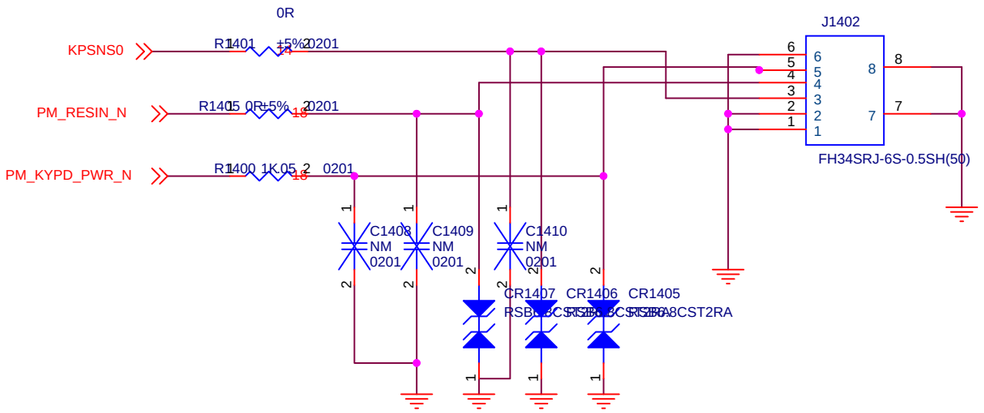
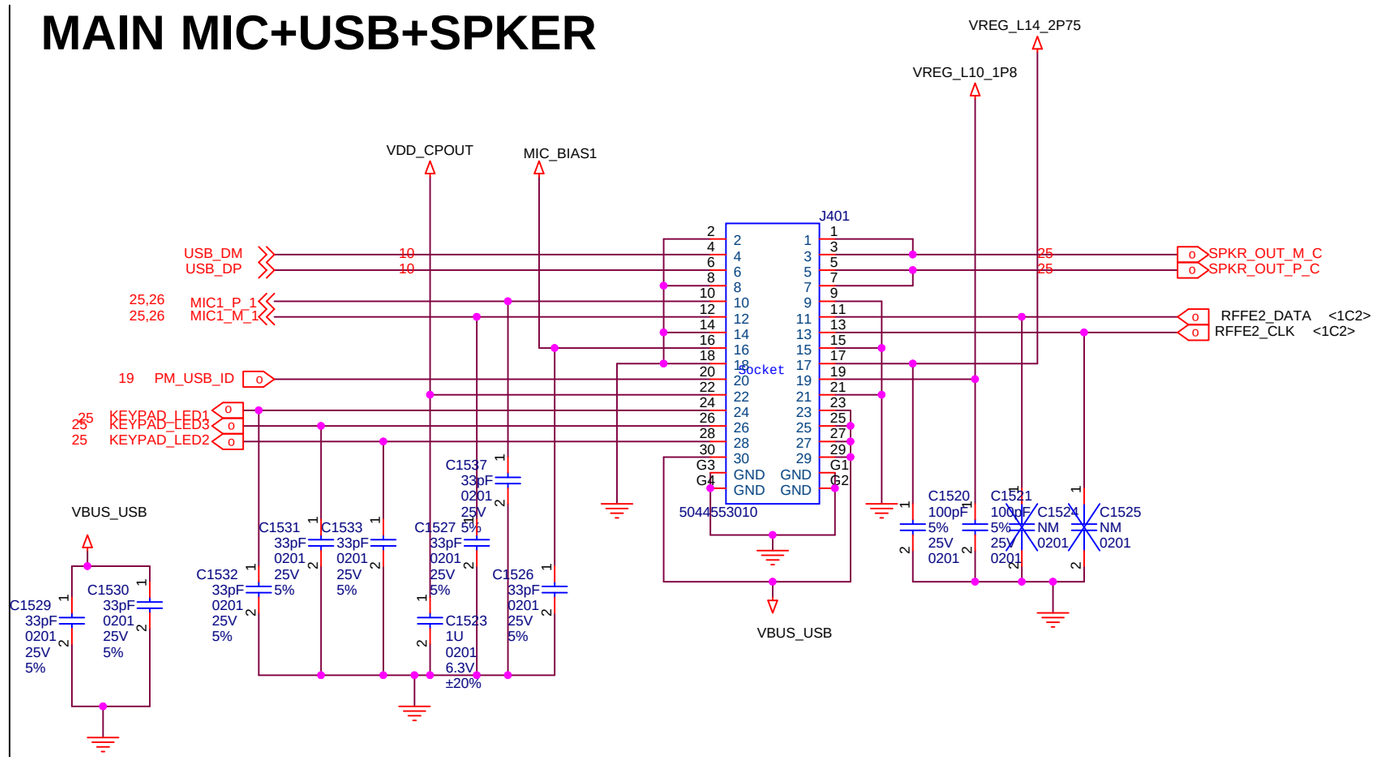
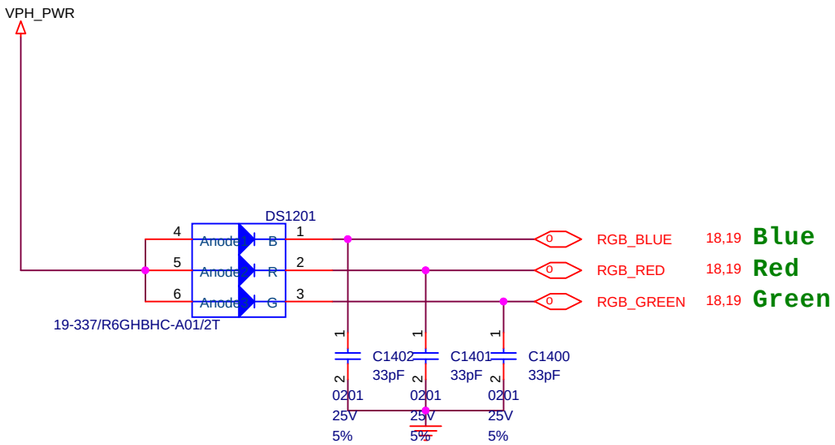
SideKey



MAIN MIC+USB+SPKER



RGB



SH5 SHIELDING_BTWIFI_HM3LTE

SH4 SHIELDING_GPS_HM3LTE

SH1 SHIELDING_TRX_HM3LTE

SH6 SHIELDING_CPU_FRAME_HM3LTE

SH2 SHIELDING_RFDCDC_HM3LTE

SH3 SHIELDING_PA_HM3LTE

KEY&RGB

Title: KEY&RGB		
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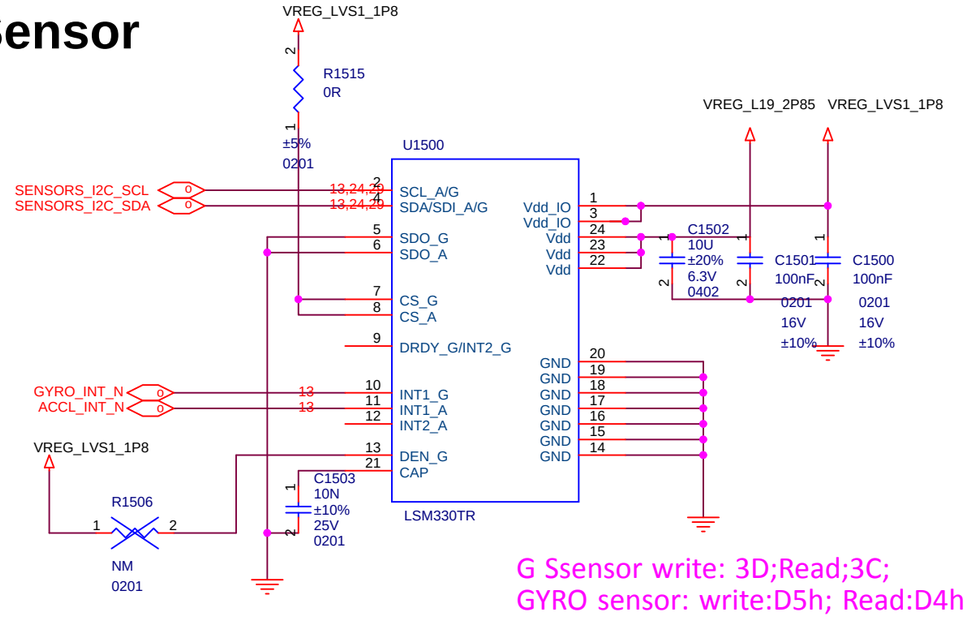
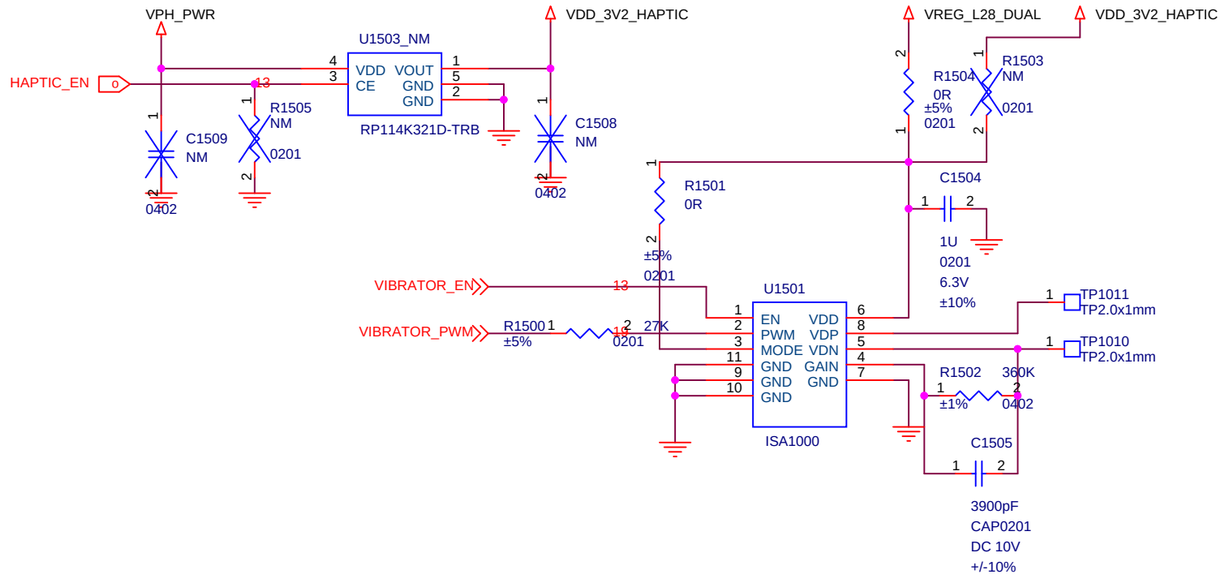
G+G-Sensor

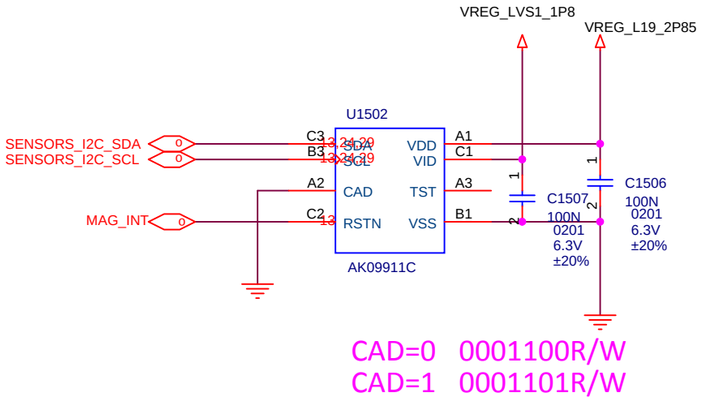


G Ssensor write: 3D;Read;3C;
GYRO sensor: write:D5h; Read:D4h

VIBRATOR

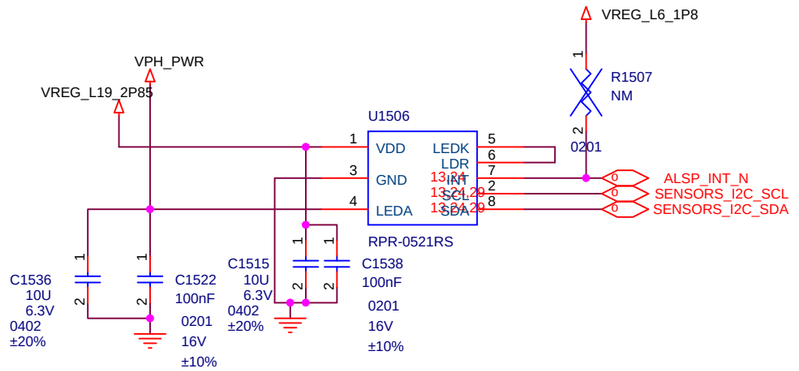


Compass Sensor



CAD=0 0001100R/W
CAD=1 0001101R/W

P_SENSOR



Sensors

Title: H3 LTE CU		
Size: A3	Document Number: <Doc>	Rev: A
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