
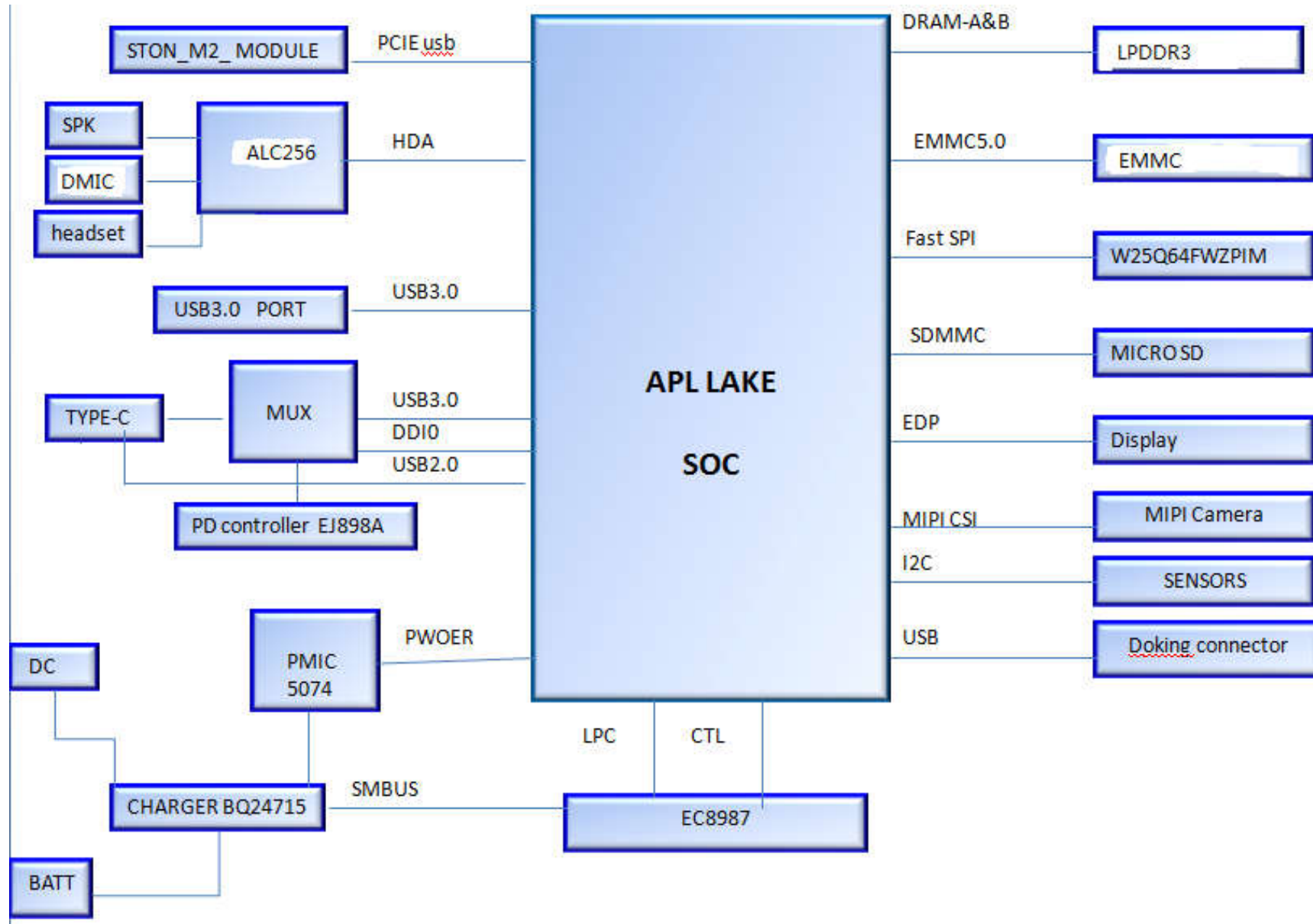
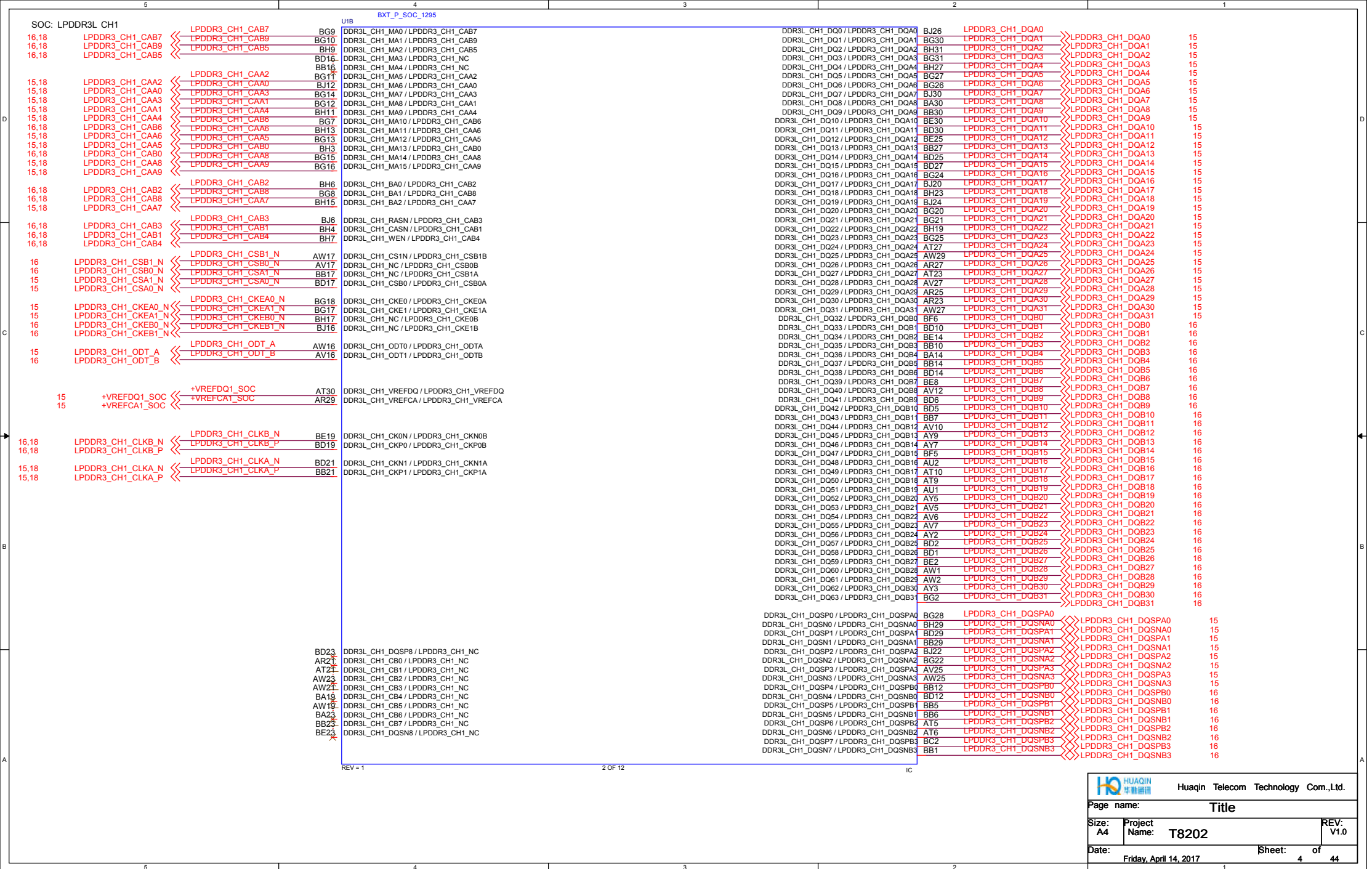


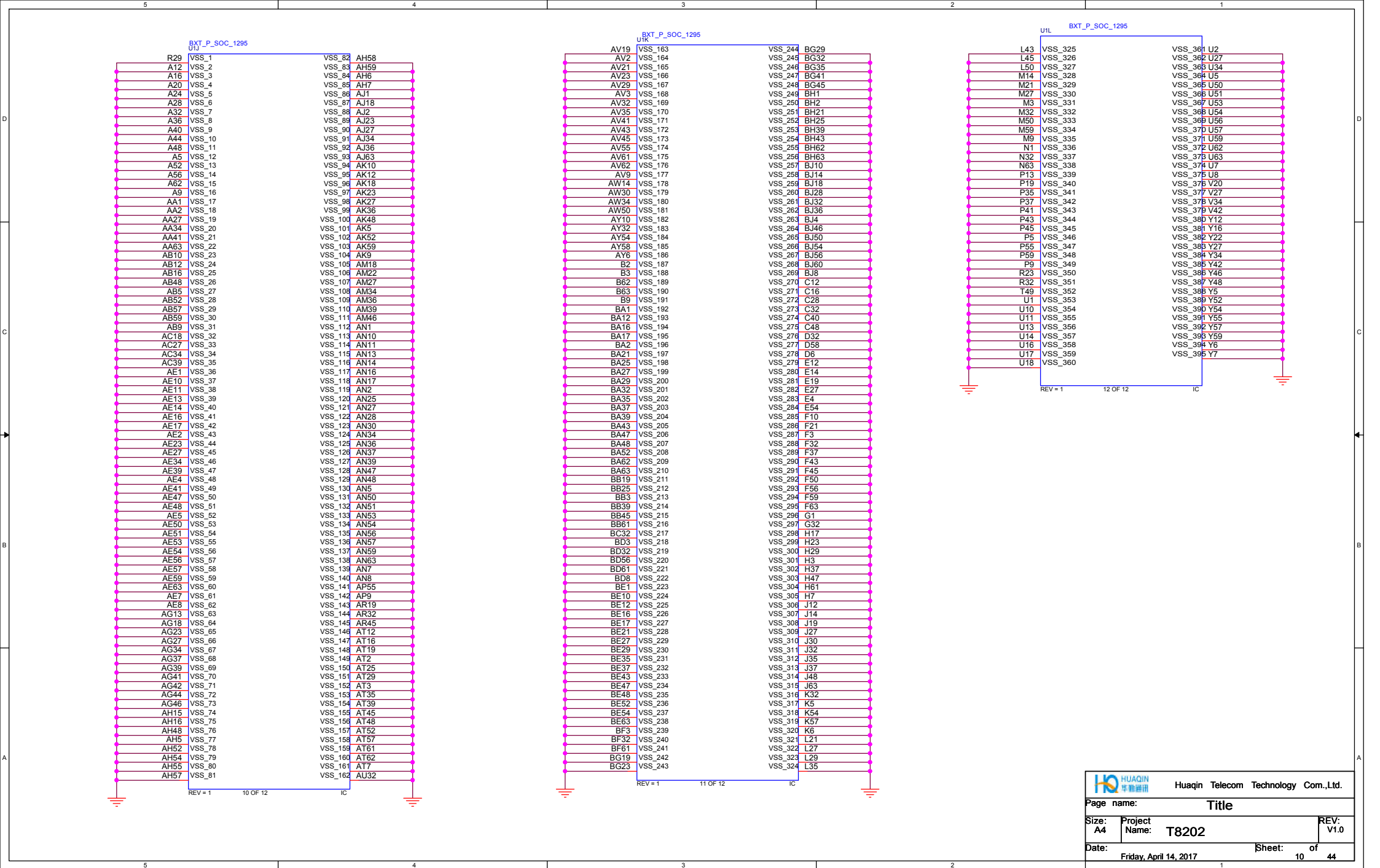
APL HUAQIN

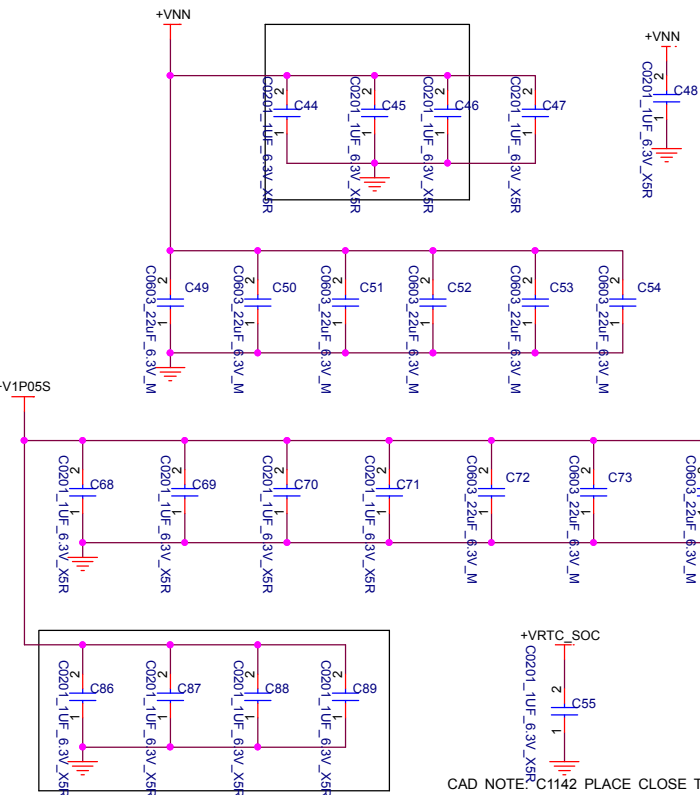
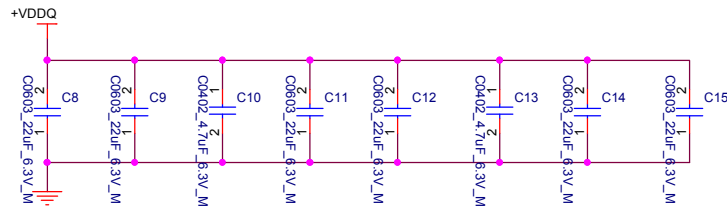
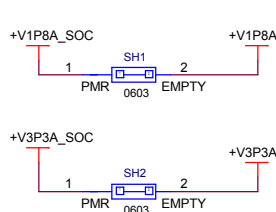
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|  | | Huaqin Telecom Technology Com.,Ltd. | |
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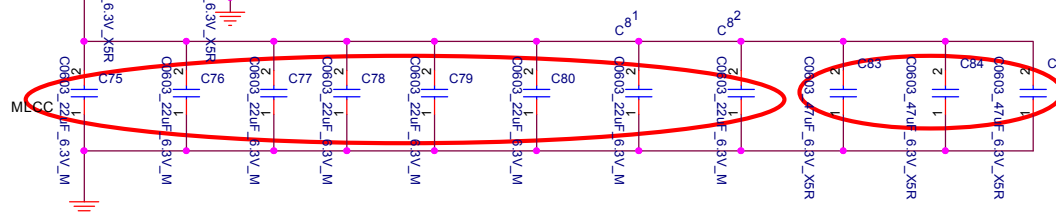
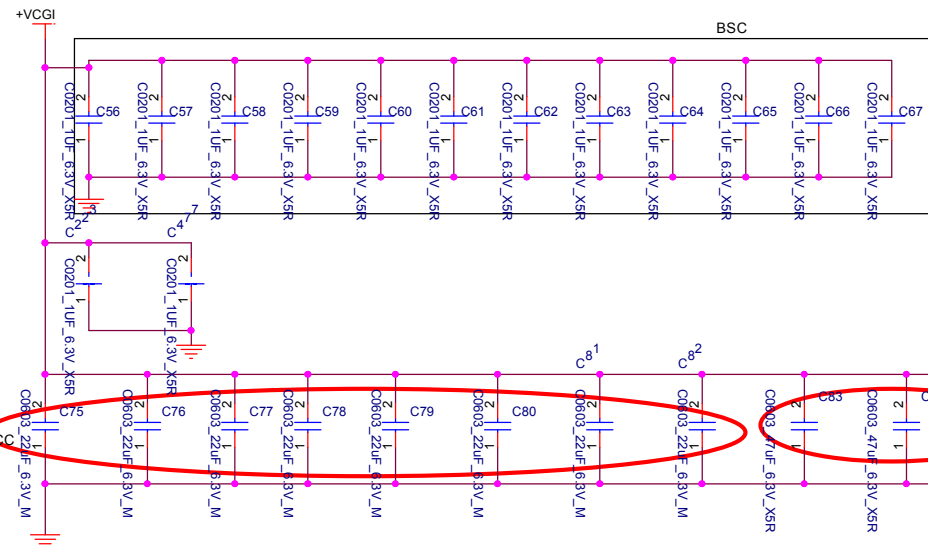
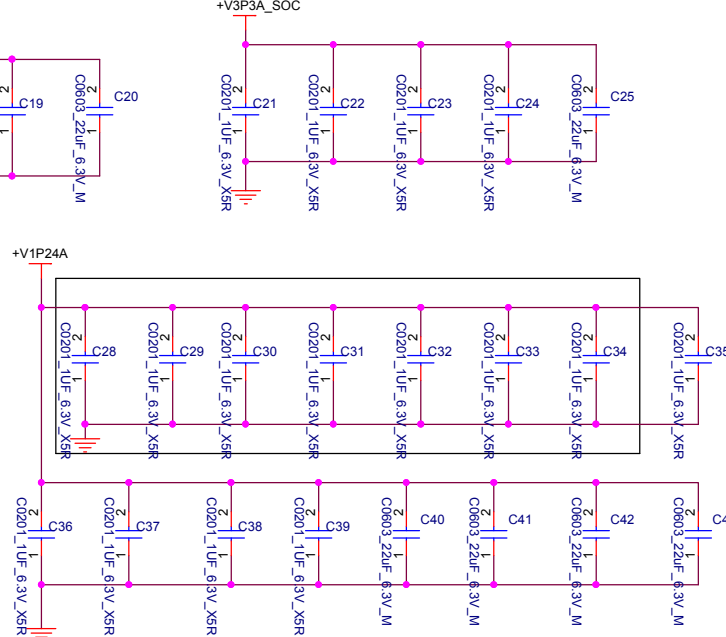
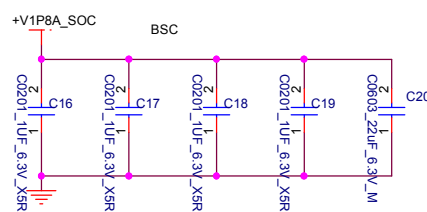
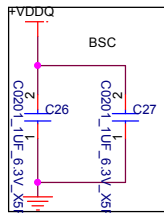







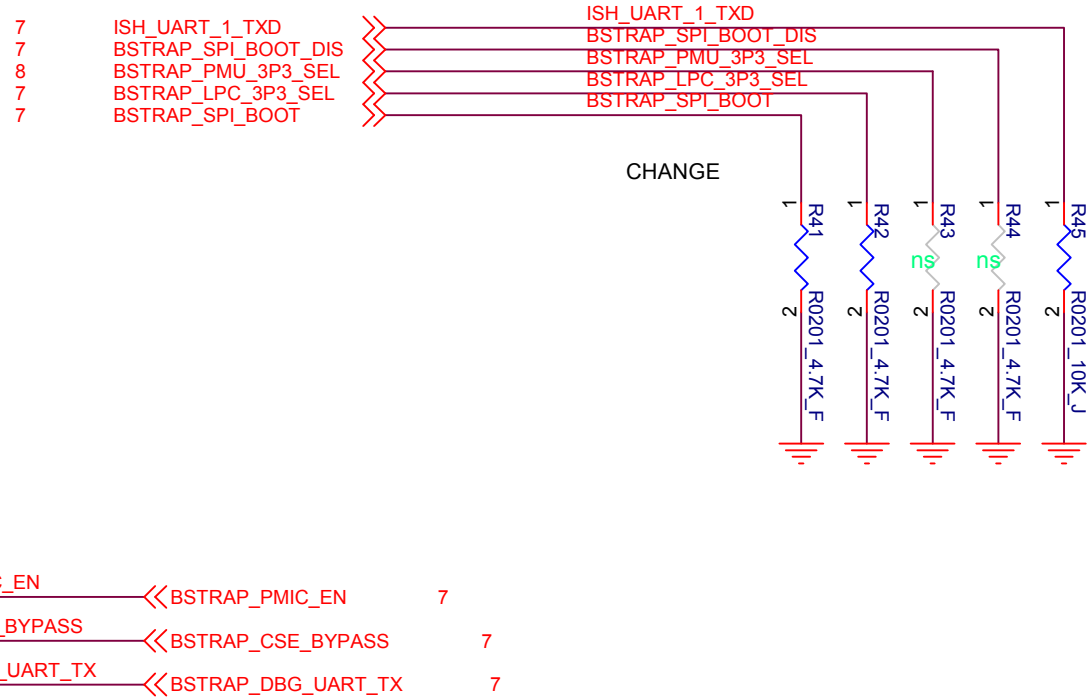


+VRTC_SOC
 C55
 C0201_1uF_6.3V_X5R
 CAD NOTE: C1142 PLACE CLOSE TO PIN AA44



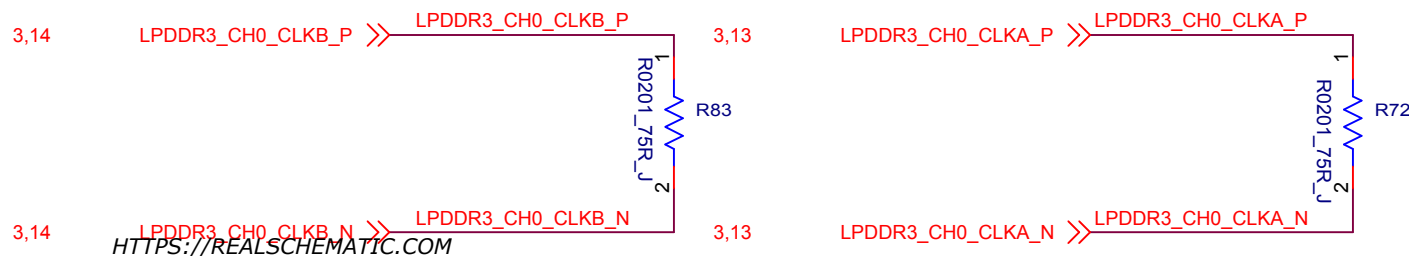
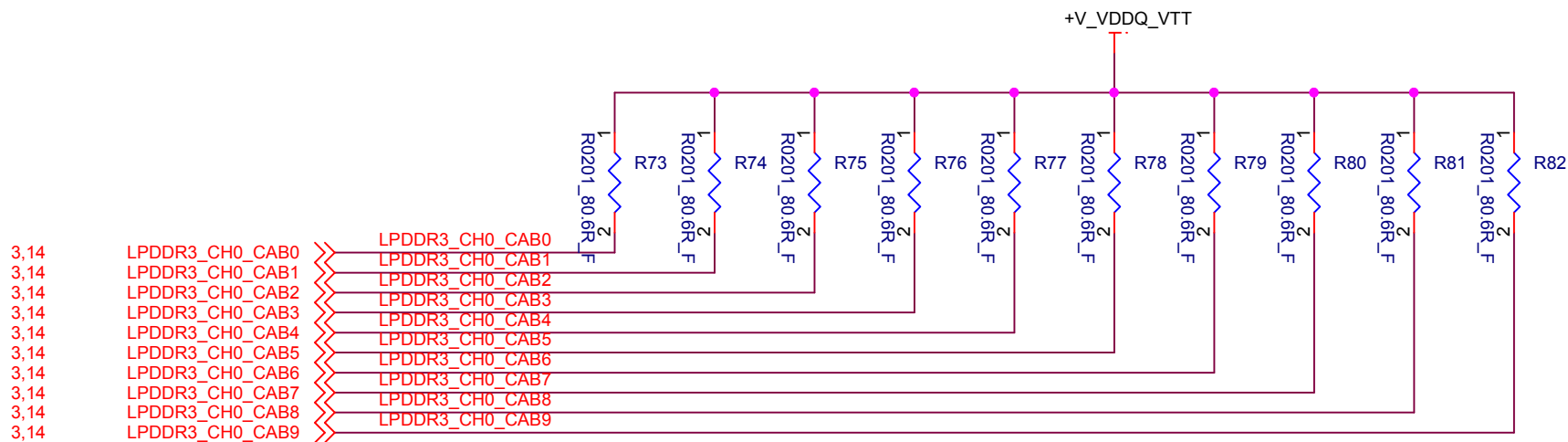
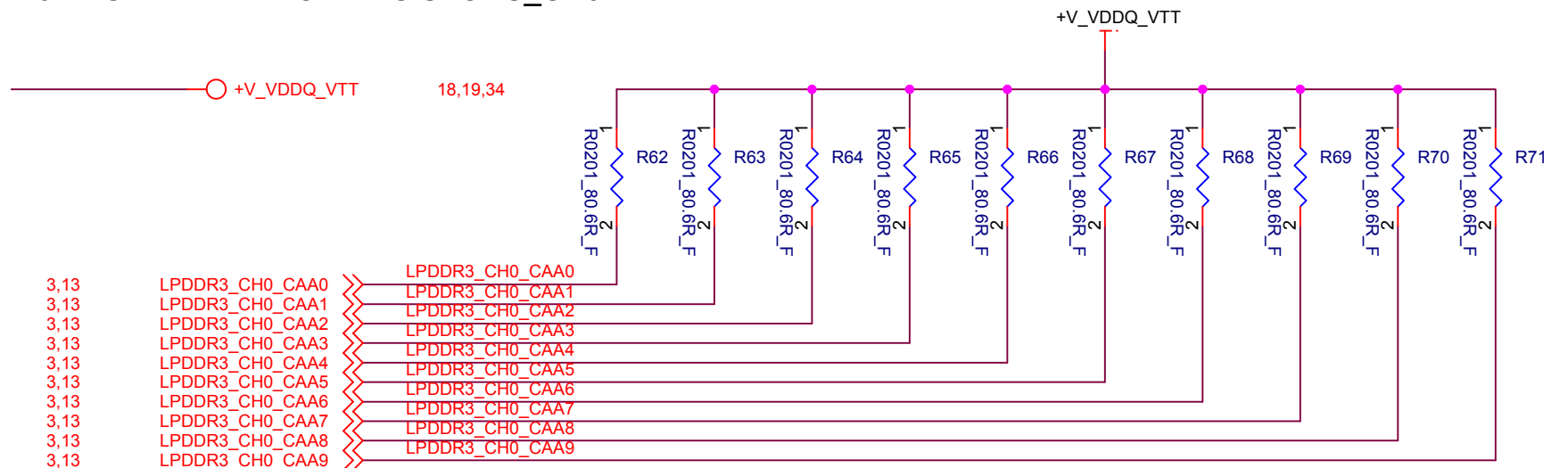
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|  | | Huaqin Telecom Technology Com.,Ltd. | |
| Page name: | | Title | |
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+V1P8A 5,7,8,11,20,22,27,29,30,32,34,37,38,39,43



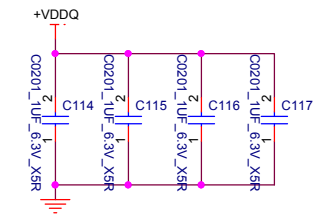
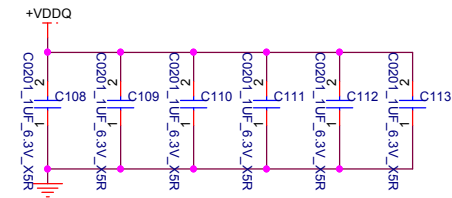
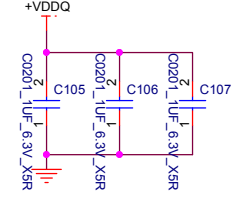
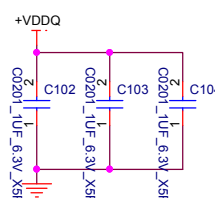
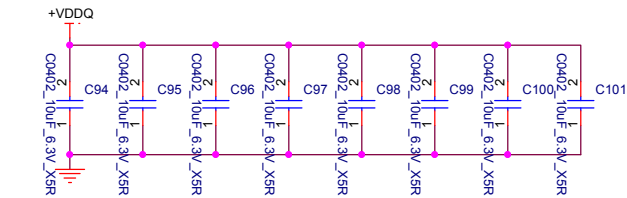
\$CDS_IMAGE|BOOTSTARP_2.bmp|2165|4414

LPDDR3L-RS TERMINATION RESISTORS_CH0

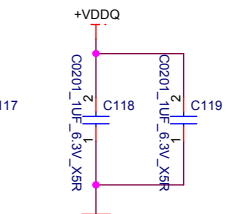


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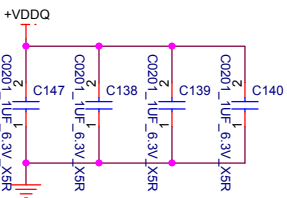
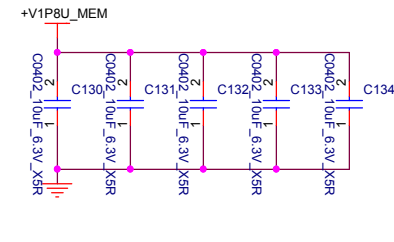
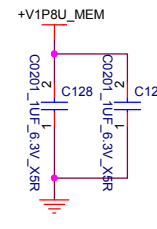
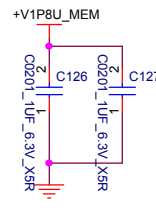
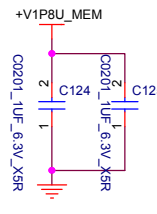
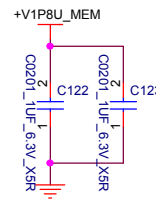
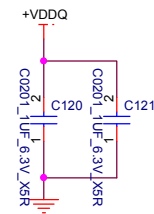
+VDDQ 9,11,13,14,15,16,27,34,36
 +V1P8U_MEM 13,14,15,16
 +V_VDDQ_VTT 17,18,34



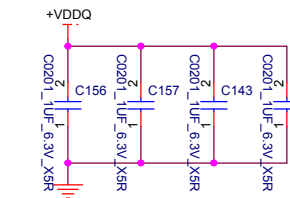
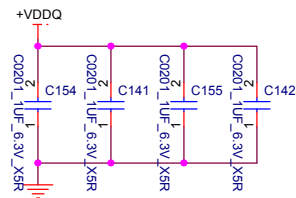
FOUR 0402 IN MID CHANNEL



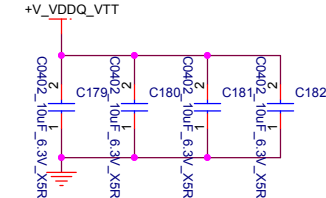
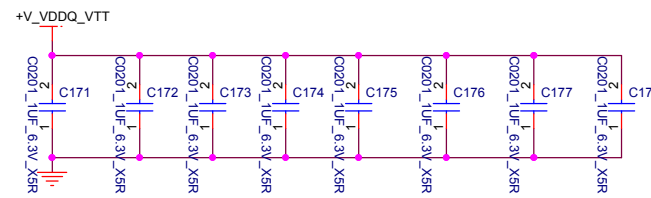
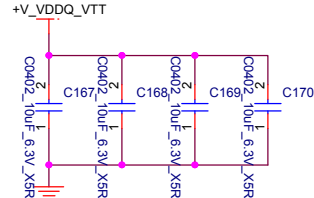
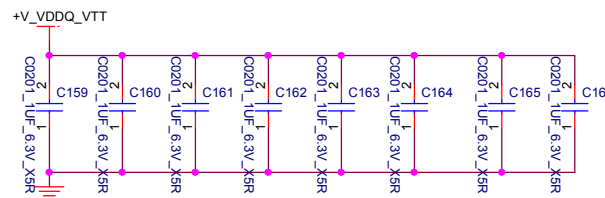
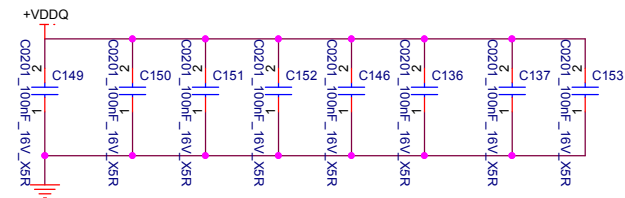
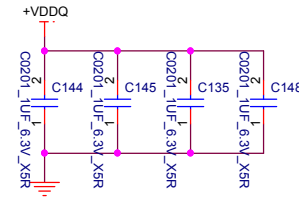
TWO 0402 ON EACH END CHANNEL




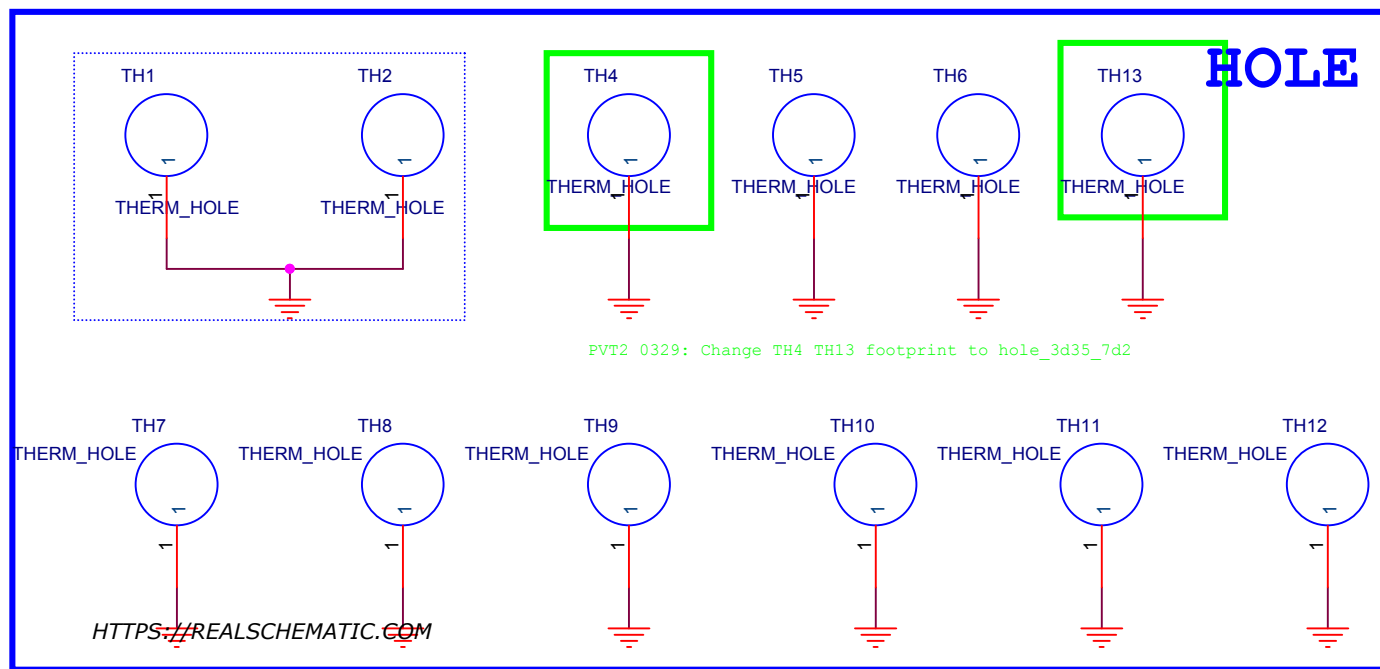
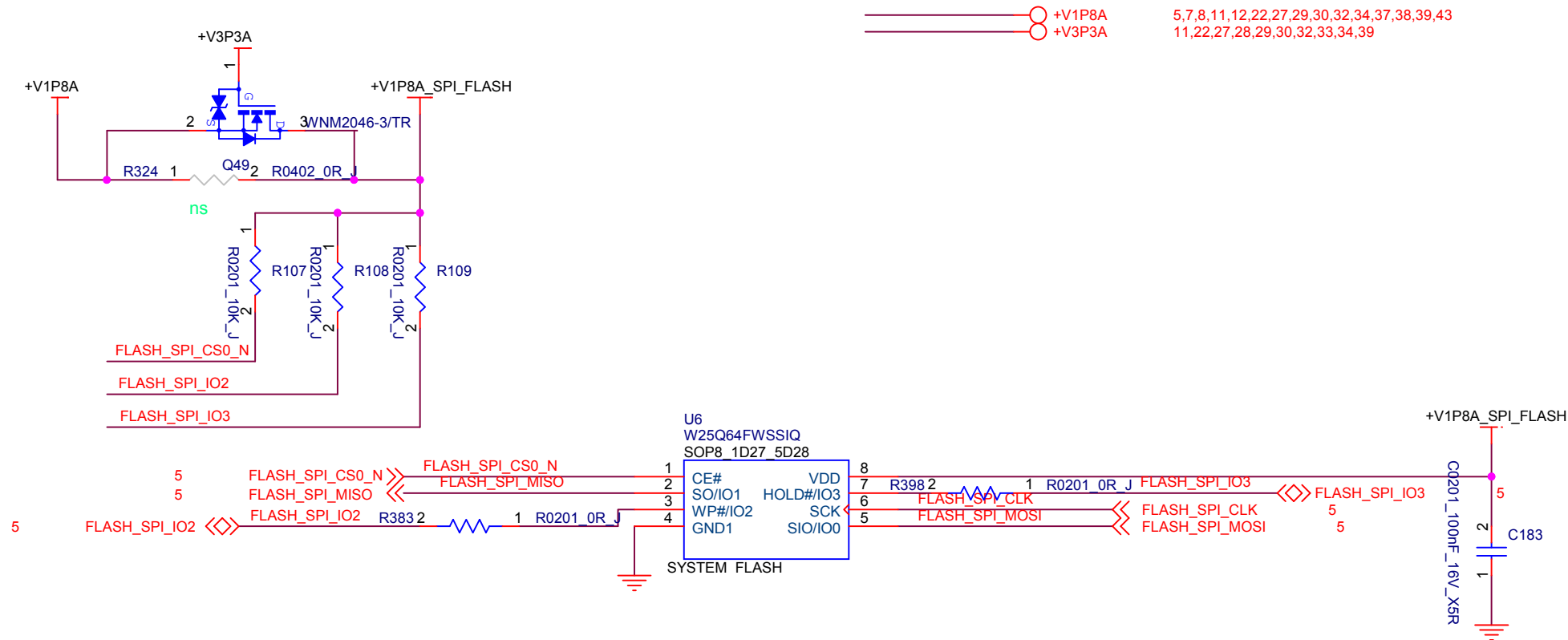
NOTE: PLACE ON TOP - 4 PER DEVICE

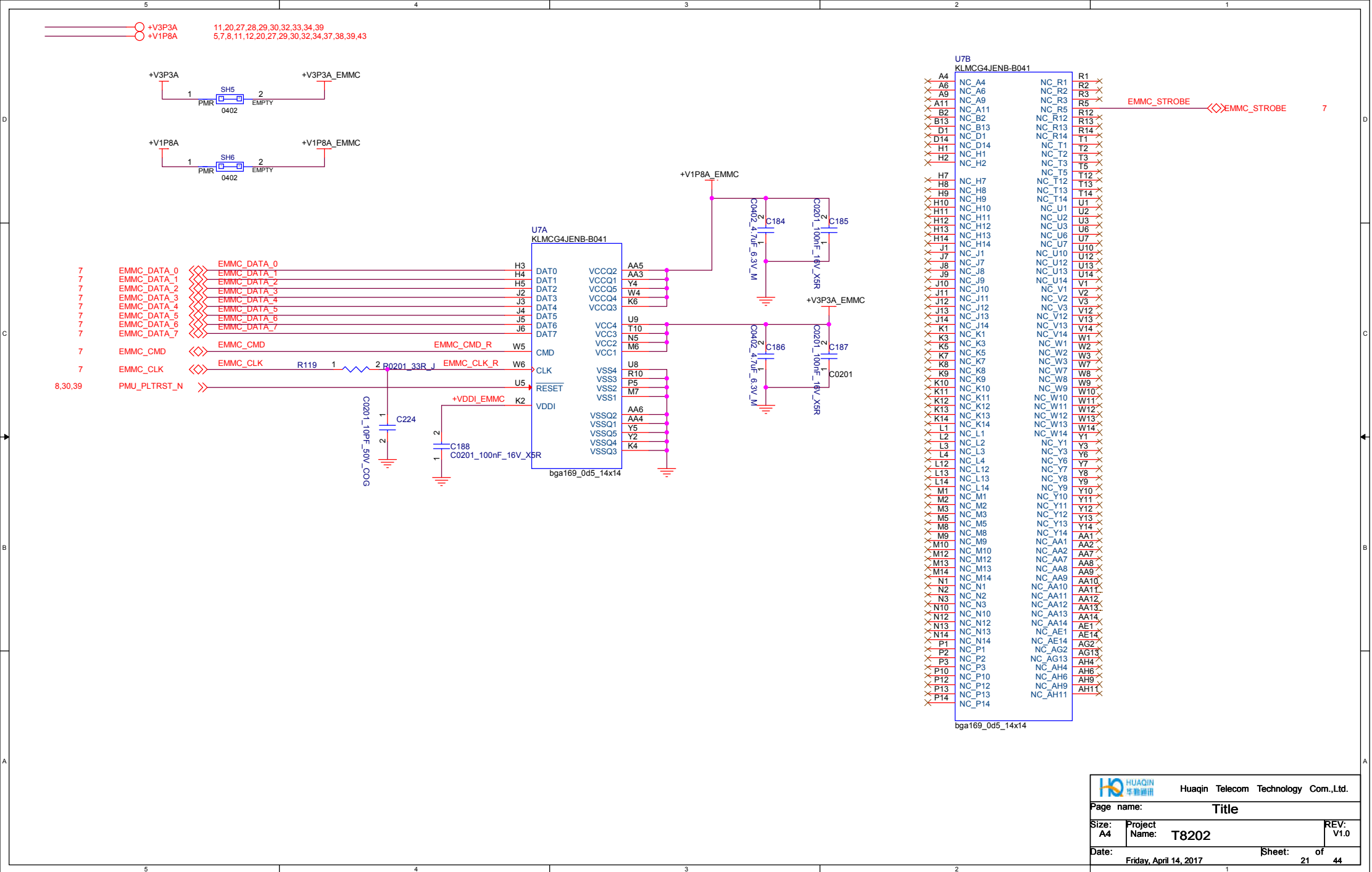


NOTE: PLACE ON TOP - 4 PER DEVICE

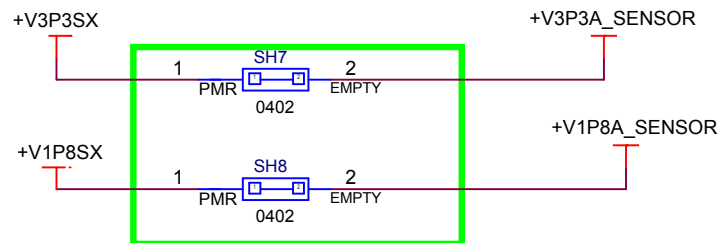


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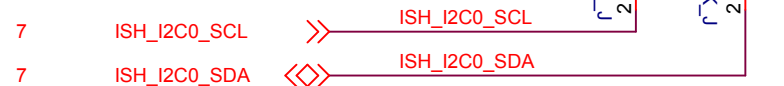




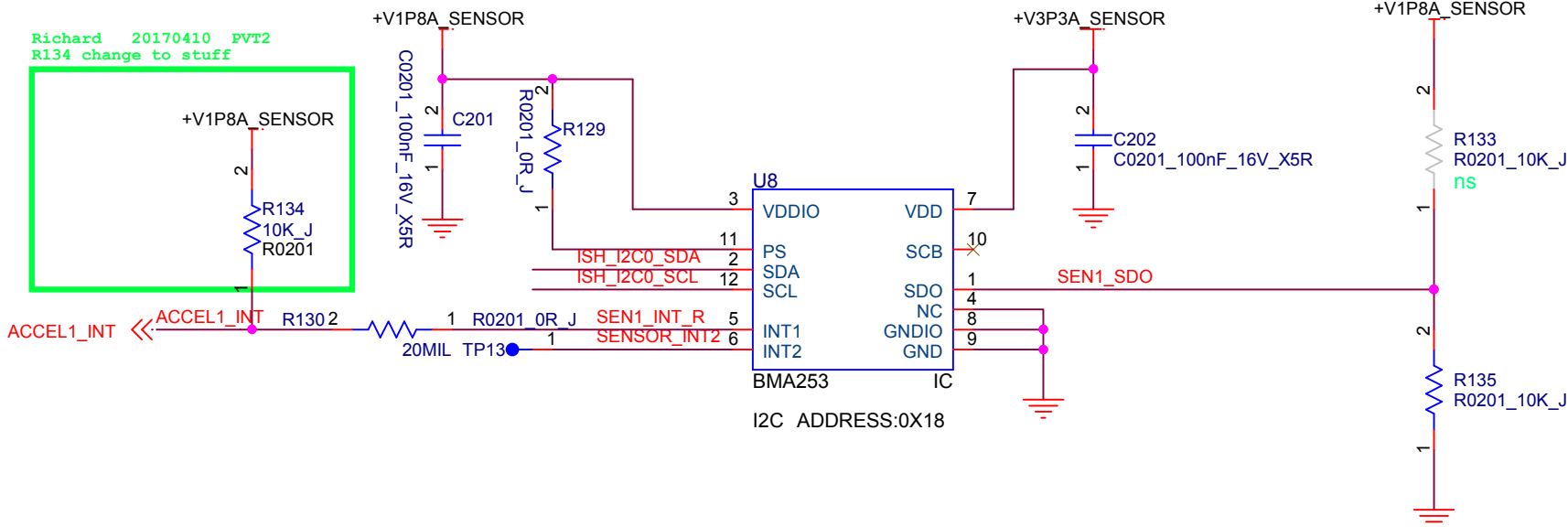
+V3P3A 11,20,22,27,28,29,30,32,33,34,39
 +V1P8A 5,7,8,11,12,20,22,27,29,30,32,34,37,38,39,43
 +V3P3SX 21,25,30,32,33,43,44
 +V1P8SX 21,25,37

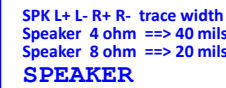
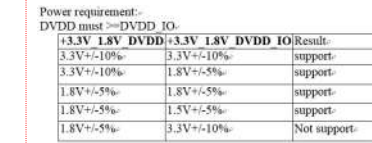
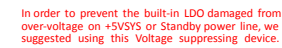


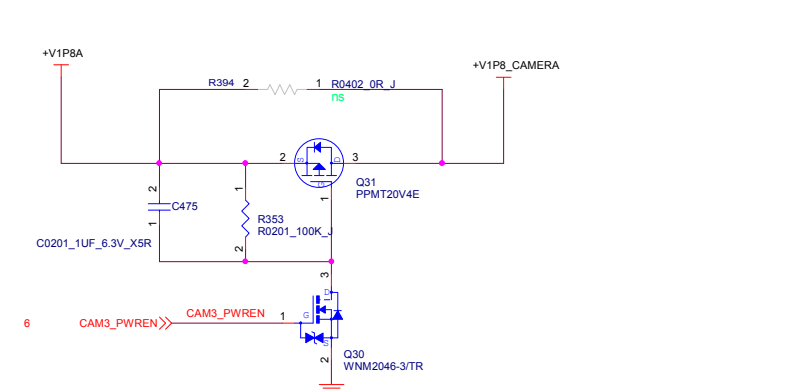
PVT 0304: Change to Shortpad for cost down



Richard 20170410 PVT2
R134 change to stuff

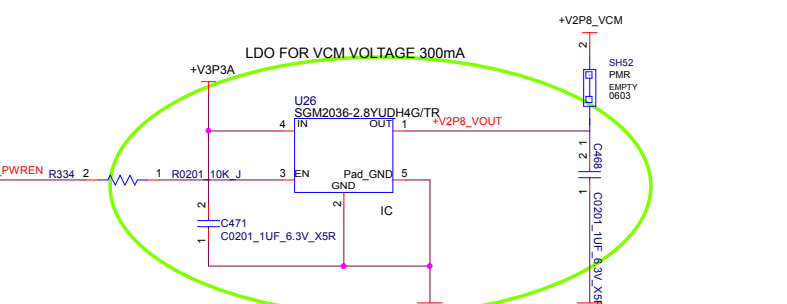
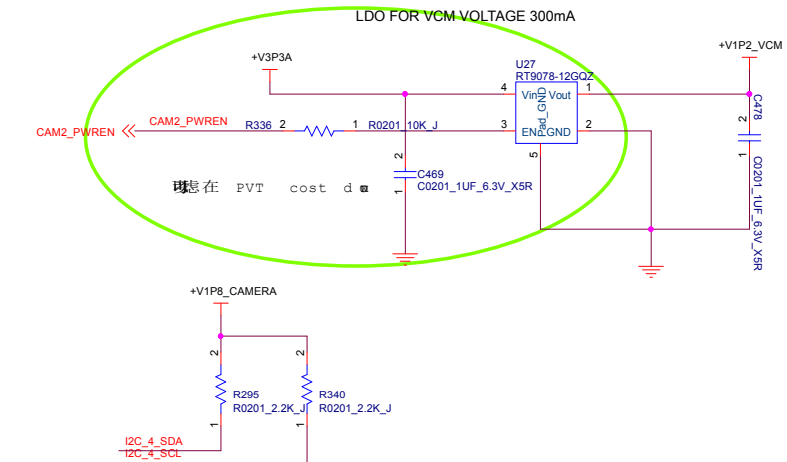


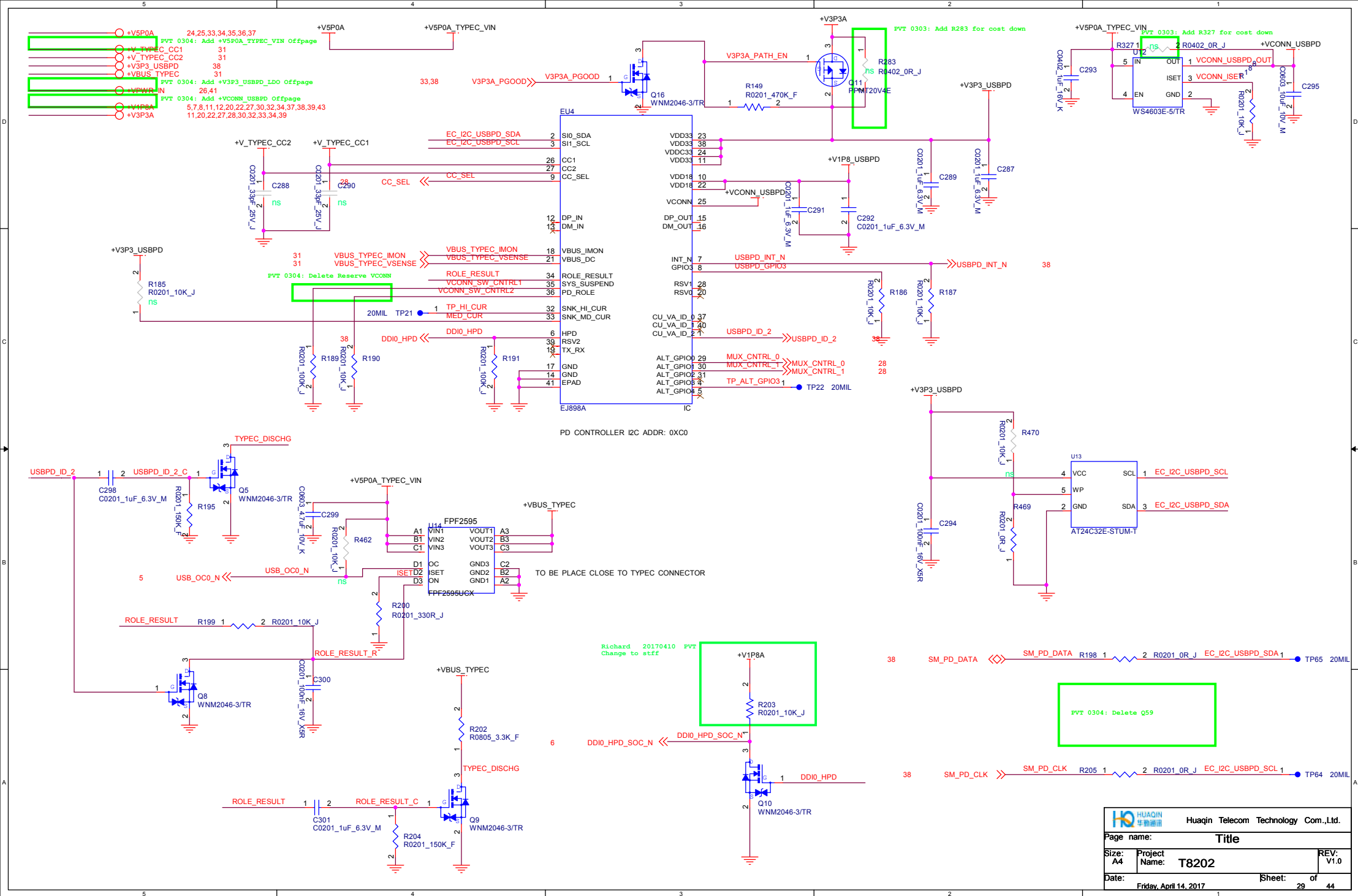


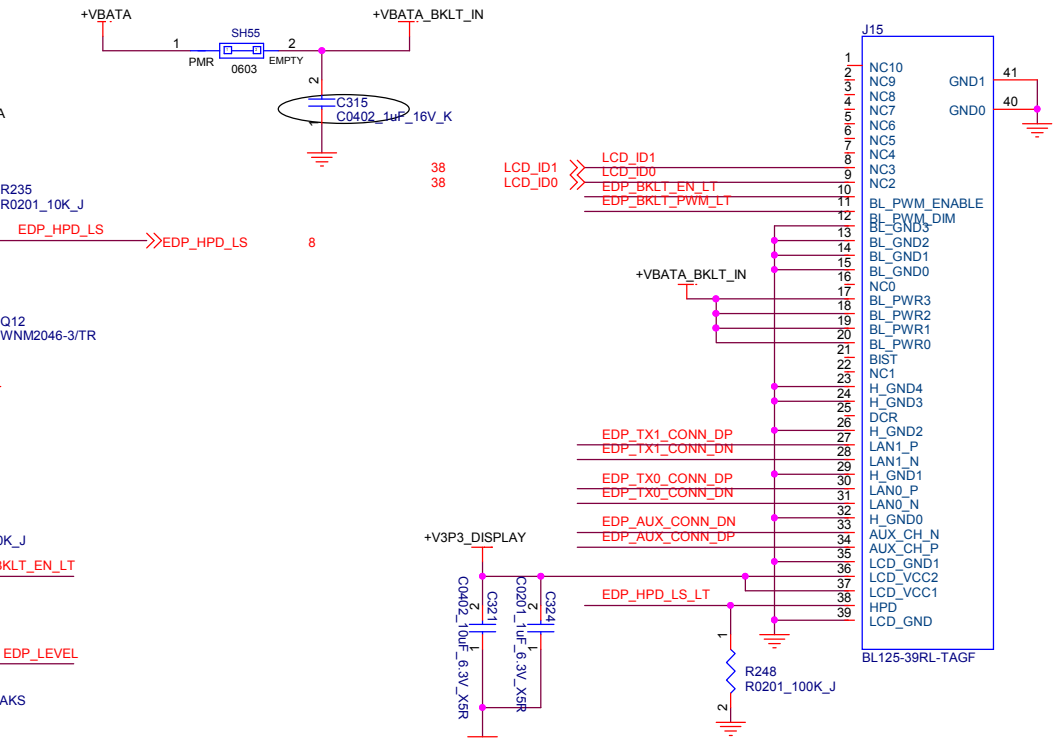
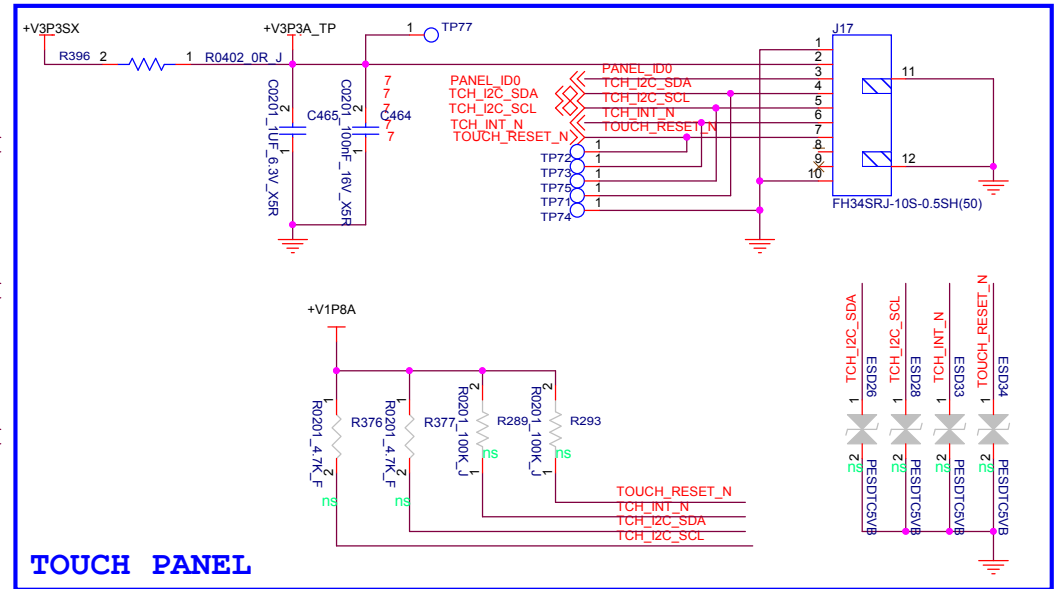
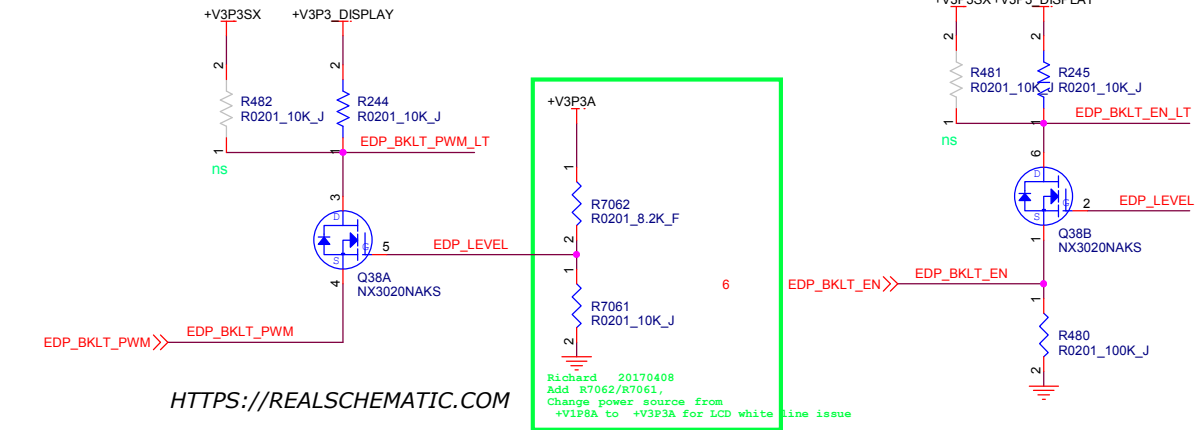
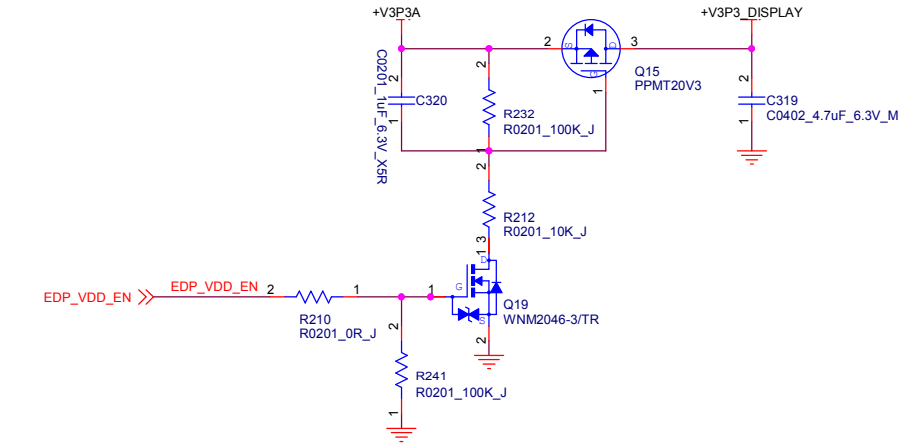
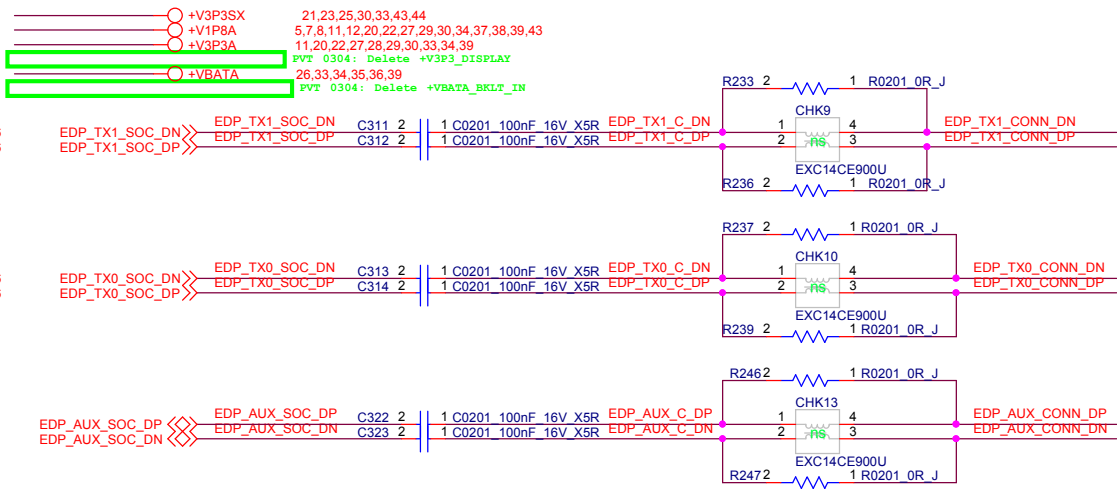


The schematic diagram illustrates the electrical connections for a camera module. The camera chip is connected to the system components via various pins and components:

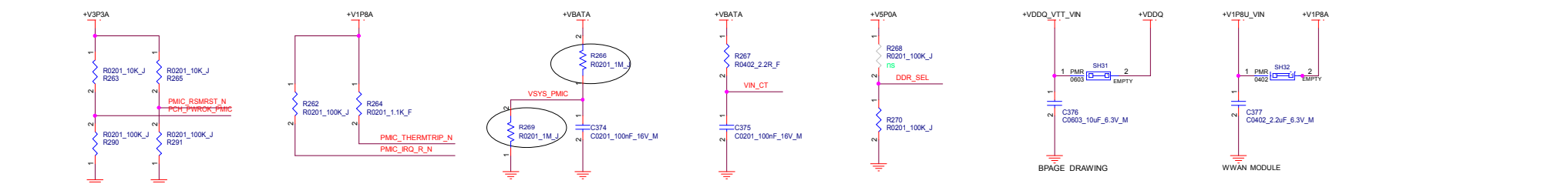
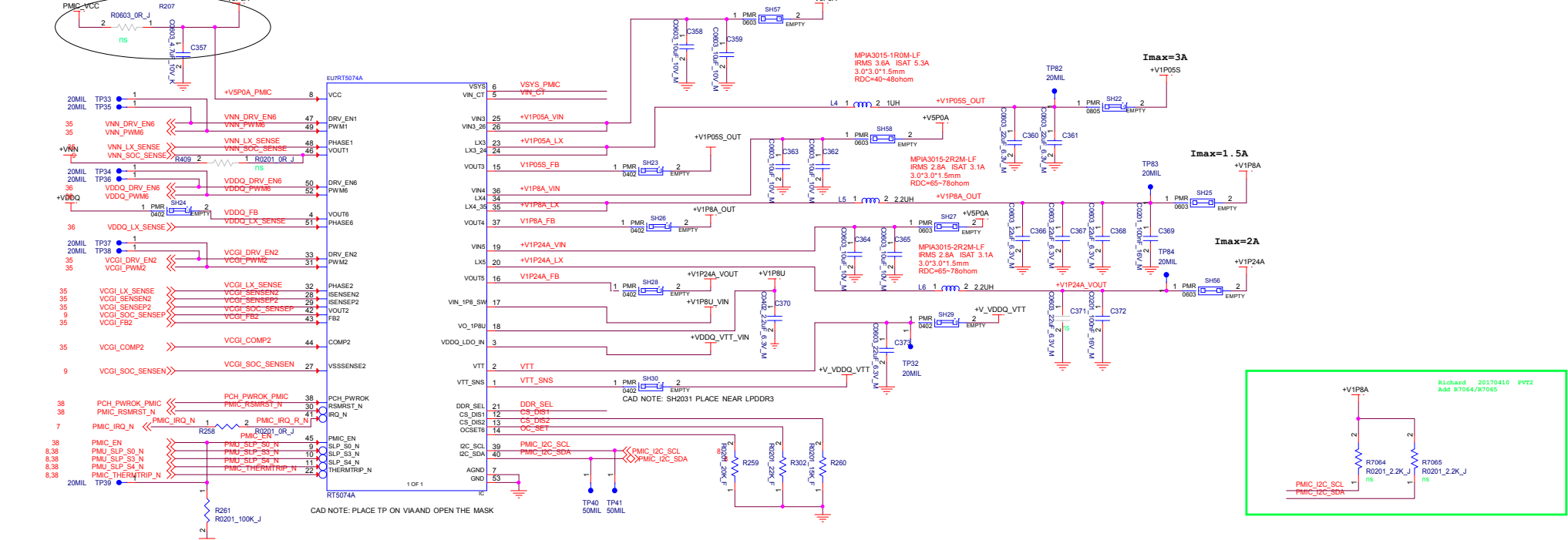
- Power and Ground:**
 - AGND0 (1) is connected to ground.
 - ID(DOVID) (2) is connected to ground.
 - NC1 (3) is connected to ground.
 - NC2 (4) is connected to ground.
 - AVDD 2.8V (5) is connected to ground.
 - RESET (7) is connected to ground.
 - SDA (8) is connected to I2C_4_SDA.
 - SCL (9) is connected to I2C_4_SCL.
 - NC (10) is connected to ground.
 - DVDD (12) is connected to +V1P2_VCM.
 - DOVD (13) is connected to ground.
 - XCLK (14) is connected to OSC_CLKOUT_0.
 - PWDN (15) is connected to FCAM1_PWDOWN.
 - DGND3 (16) is connected to ground.
 - MDP1 (17) is connected to ground.
 - MDN1 (18) is connected to ground.
 - DGND4 (20) is connected to ground.
 - MDP0 (21) is connected to ground.
 - MDN0 (22) is connected to ground.
 - DGND5 (23) is connected to ground.
 - MCP (24) is connected to ground.
 - MCN (25) is connected to ground.
 - DGND6 (25) is connected to ground.
 - GND0 (26) is connected to ground.
 - GND1 (27) is connected to ground.
 - YXT-ZF20-25F-00 (28) is connected to ground.
- Signal Connections:**
 - I2C_4_SDA (8) is connected to I2C_4_SDA.
 - I2C_4_SCL (9) is connected to I2C_4_SCL.
 - OSC_CLKOUT_0 (14) is connected to OSC_CLKOUT_0.
 - FCAM1_PWDOWN (15) is connected to FCAM1_PWDOWN.
 - CAM1_RESET_N (6) is connected to CAM1_RESET_N.
 - OSC_CLKOUT_0 (6) is connected to OSC_CLKOUT_0.
 - CAM1_PWDOWN (6) is connected to CAM1_PWDOWN.
 - CHK18 (4) is connected to MCSI_RX_DATA1_P and MCSI_RX_DATA1_N.
 - CHK19 (4) is connected to MCSI_RX_DATA0_P and MCSI_RX_DATA0_N.
 - CHK20 (4) is connected to MCSI_RX_CLK0_P and MCSI_RX_CLK0_N.
- Components:**
 - R378 (2) is a resistor.
 - R0402 0R_J (1) is a 0-ohm jumper.
 - C445 (C0201_100nF_16V_X5R) is a capacitor.
 - R388 (2) is a resistor.
 - R0201 0R_J (1) is a 0-ohm jumper.
 - R449 (2) is a resistor.
 - R0R_J (1) is a 0-ohm jumper.
 - R0201 (1) is a resistor.
 - R368 (2) is a resistor.
 - R0201 0R_J (1) is a 0-ohm jumper.
 - R369 (2) is a resistor.
 - R0201 0R_J (1) is a 0-ohm jumper.
 - R370 (2) is a resistor.
 - R0201 0R_J (1) is a 0-ohm jumper.
 - R371 (2) is a resistor.
 - R0201 0R_J (1) is a 0-ohm jumper.
 - R372 (2) is a resistor.
 - R0201 0R_J (1) is a 0-ohm jumper.
 - R373 (2) is a resistor.
 - R0201 0R_J (1) is a 0-ohm jumper.

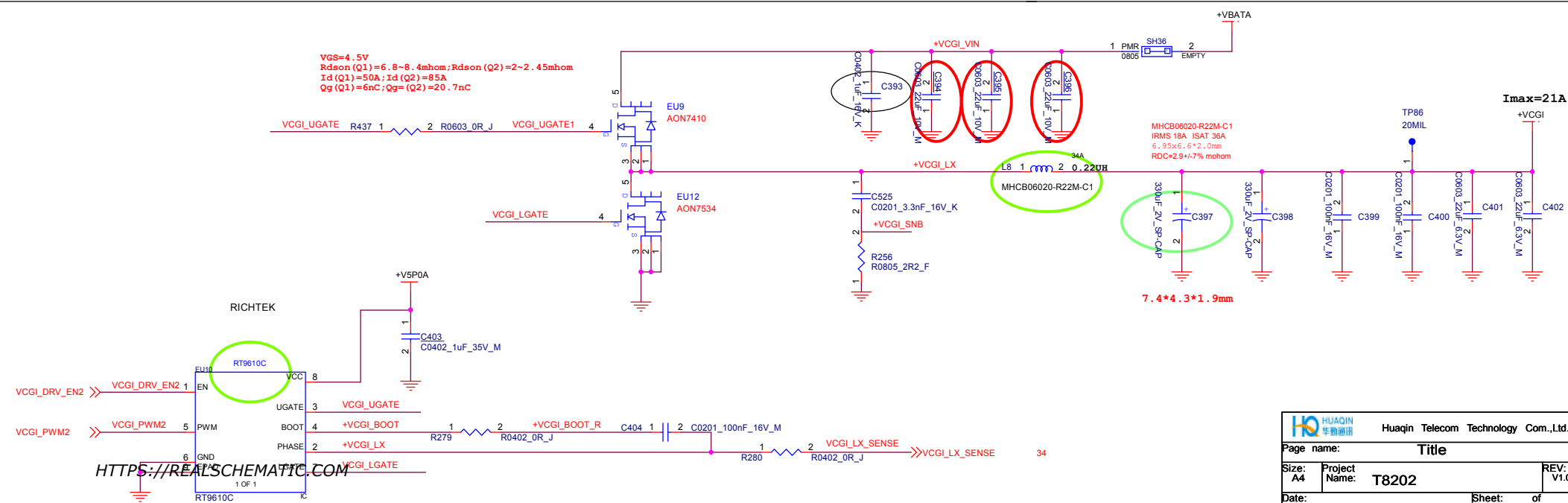
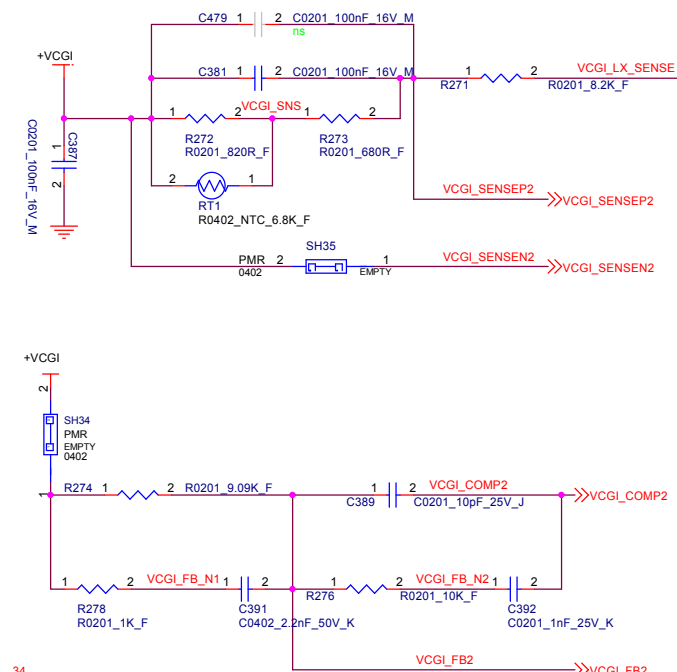
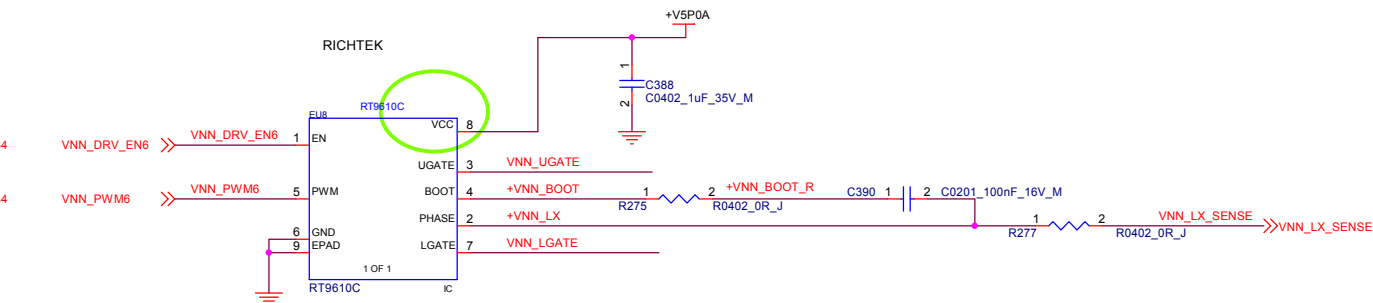
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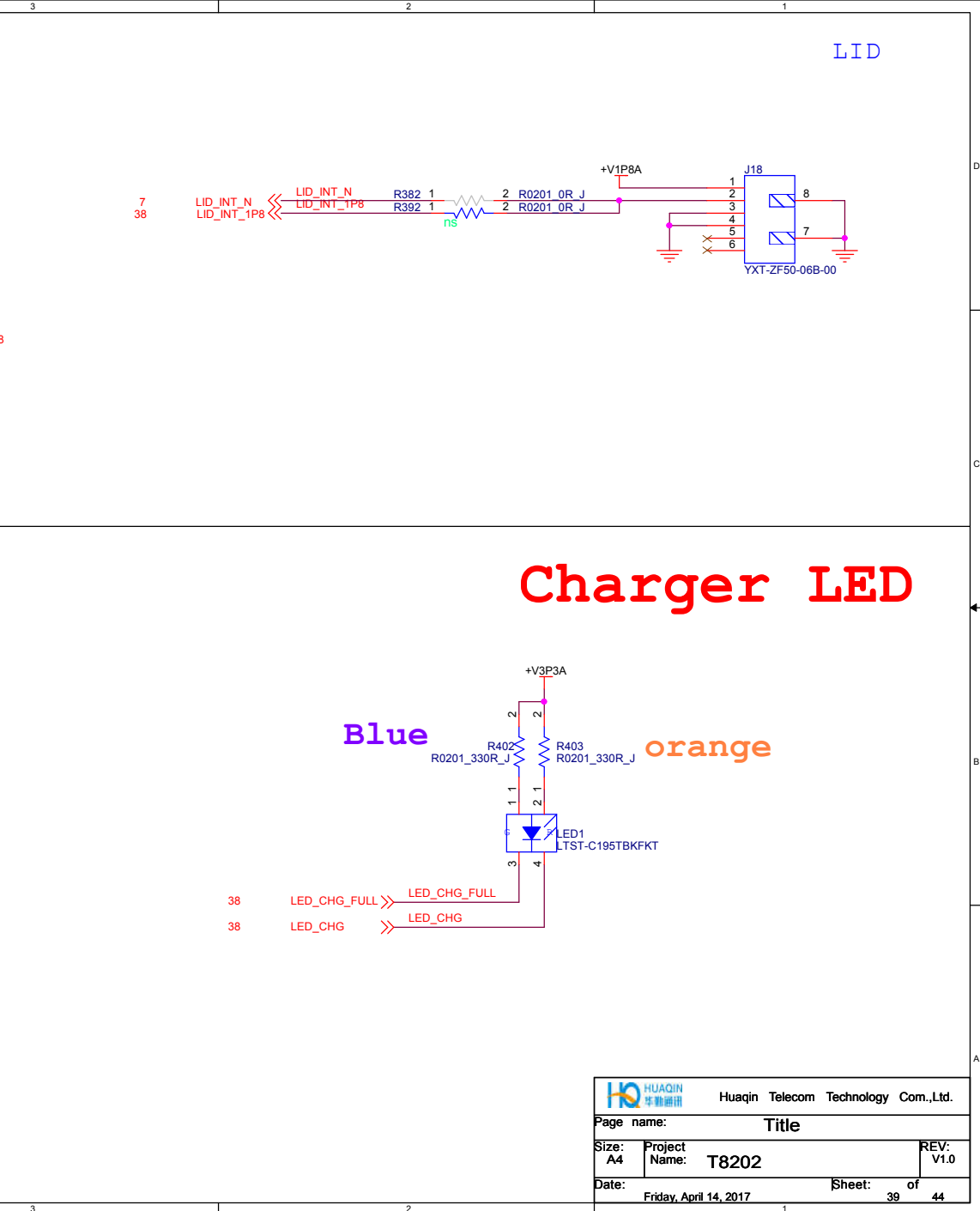
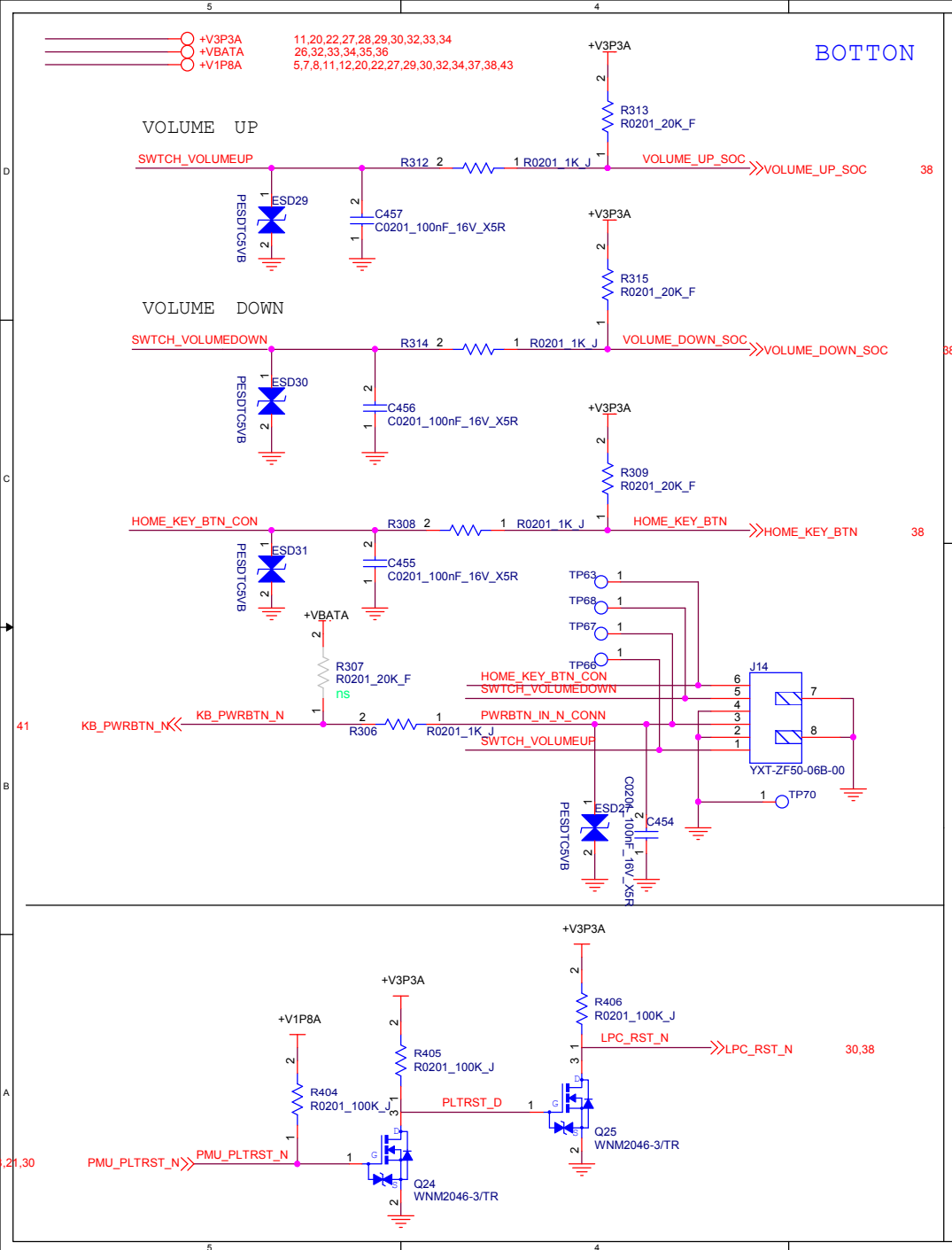




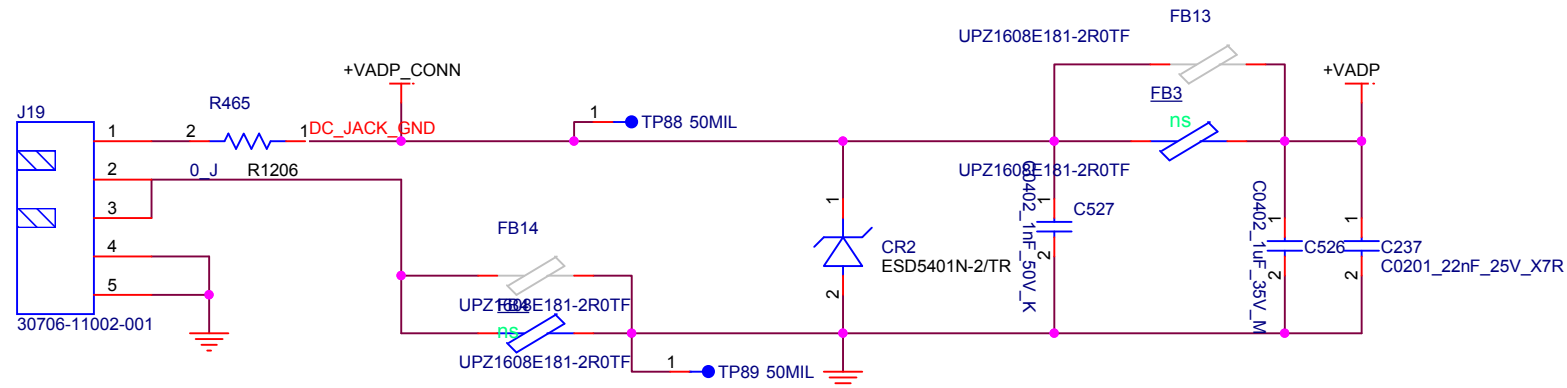
+VSP0A 24,25,29,33,35,36,37
 +V1P05S 9,11
 +V1P8A 5,7,8,11,12,20,22,27,29,30,32,37,38,39,43
 +V1P24A 9,11
 +V1P8U 13
 +VDDQ_VTT_VIN 34
 +VSP1_RTC 8,33,38,41
 PMIC_VCC 33
 +VBATA 26,32,33,35,36,39
 +VSP0A 11,20,22,27,29,30,32,33,39
 +V_VDDQ_VTT 17,18,19
 +VDDQ_VTT_VIN 34
 +VDDQ 9,11,13,14,15,16,19,27,36
 +VNN 8,11,36



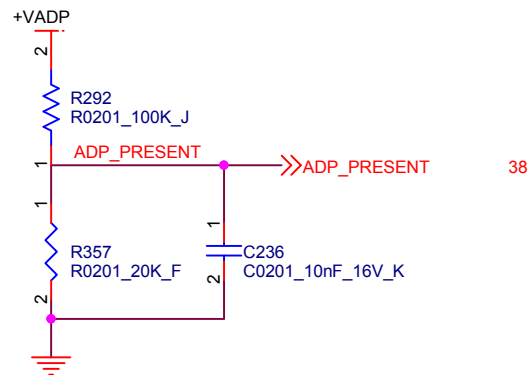




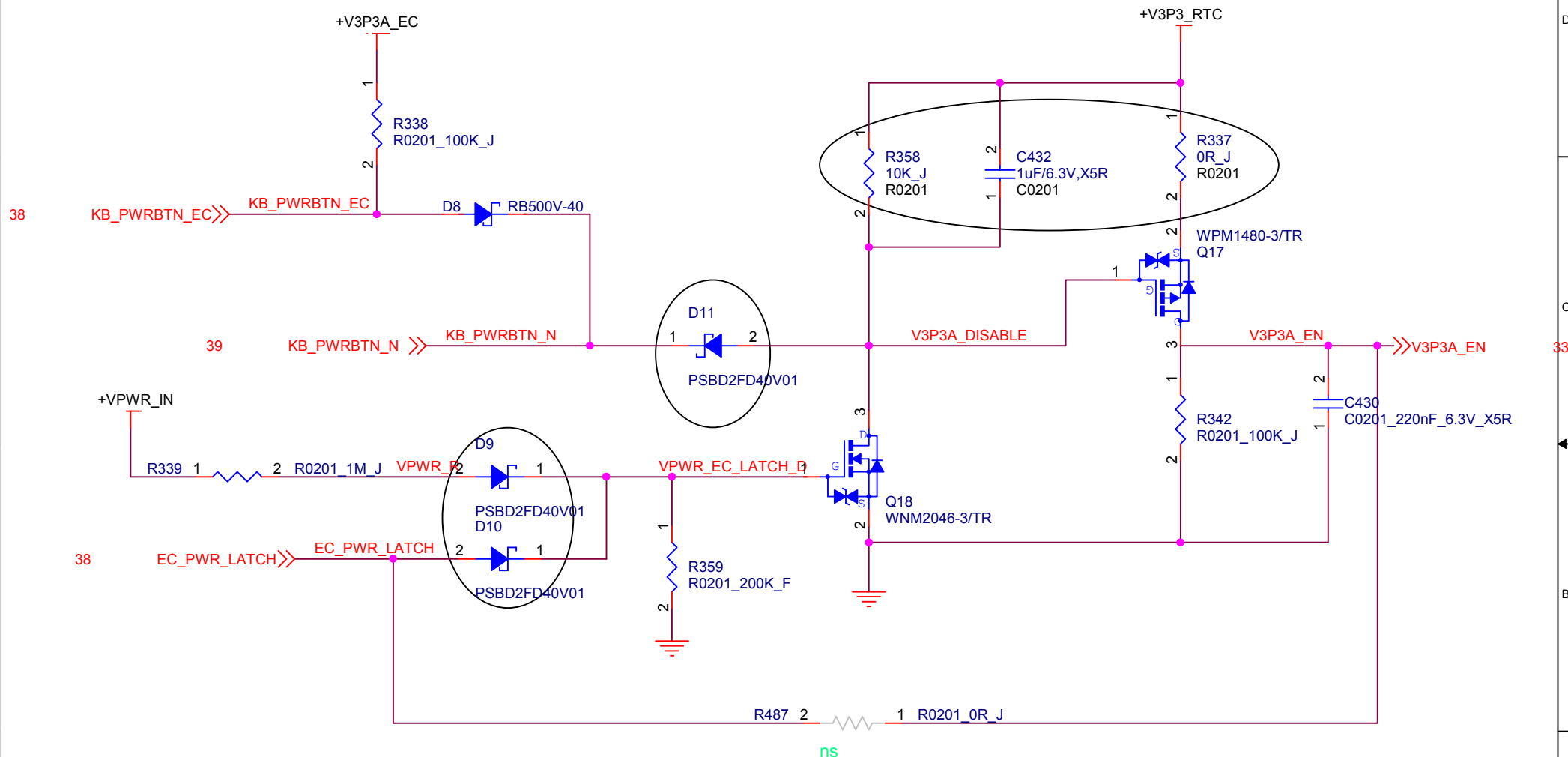
PVT 0304: Delete +VADP_CONN
26

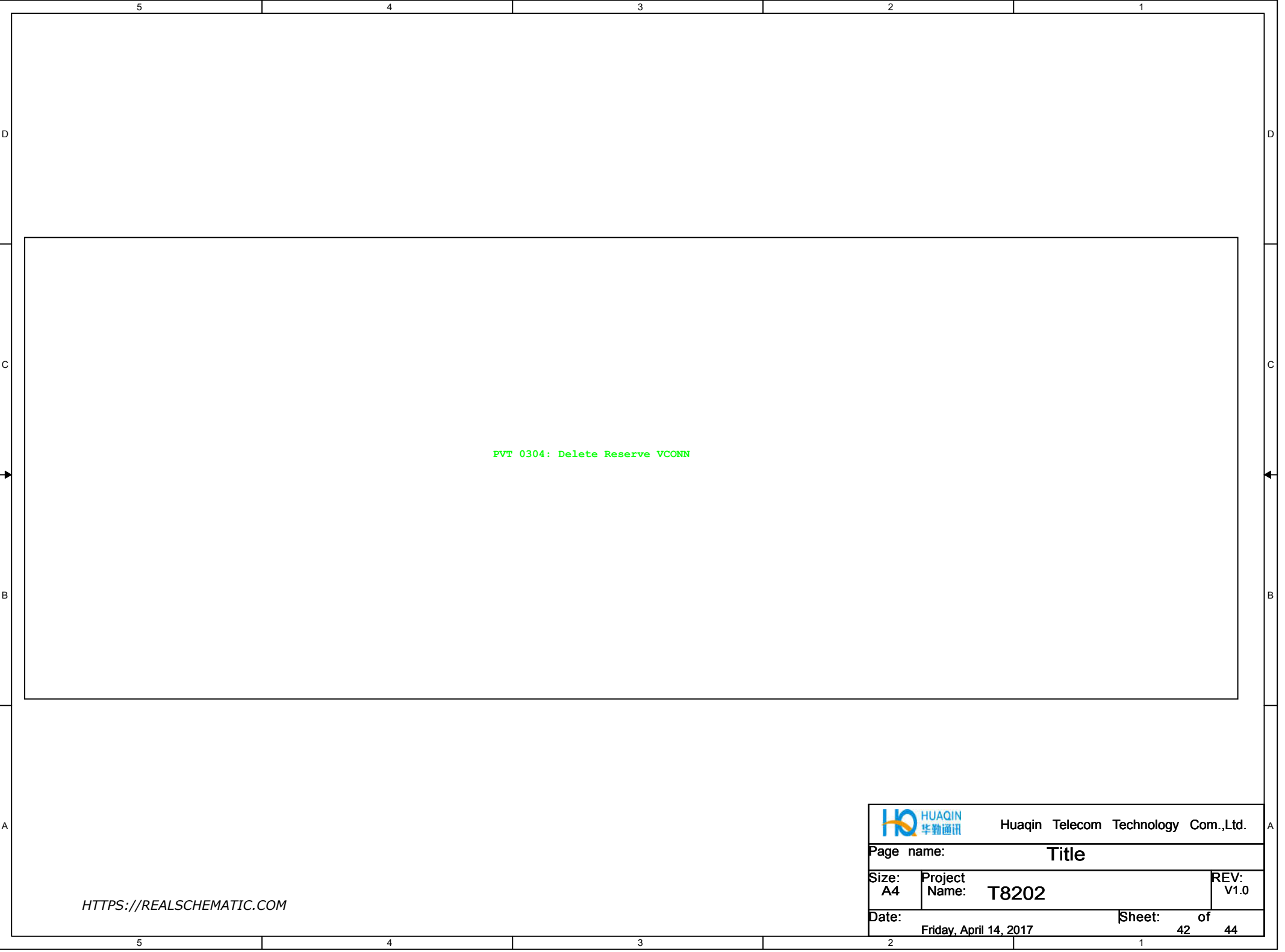


CAD NOTE: THICK COPPER POUR BETWEEN TP2501 AND FB2500



+V3P3_RTC 8,33,38
 +V3P3A 11,20,22,27,28,29,30,32,33,34,39
 +VPWR_IN 26
 +V3P3A_EC 26,38





PVT 0304: Delete Reserve VCONN

+V3P3SX 21,23,25,30,32,33,44
+V1P8A 5,7,8,11,12,20,22,27,29,30,32,34,37,38,39

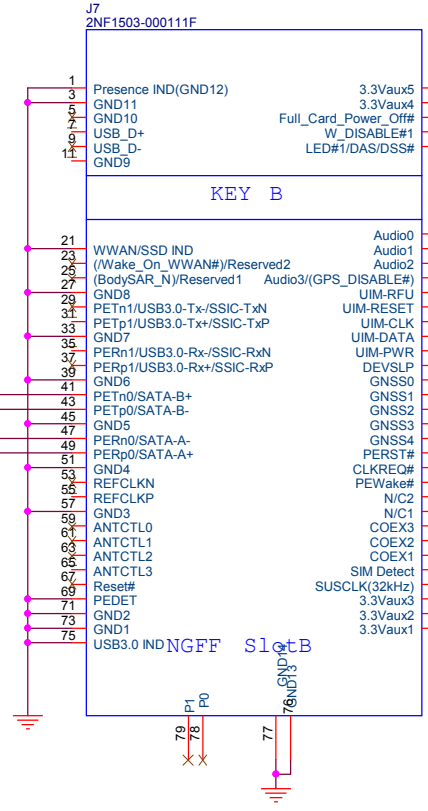


PVT2 0327: Delete ESD9

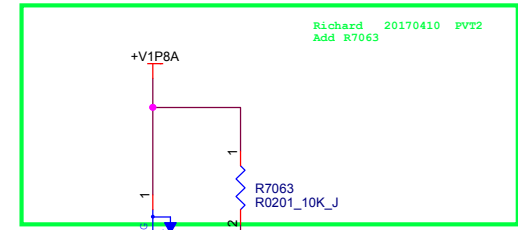
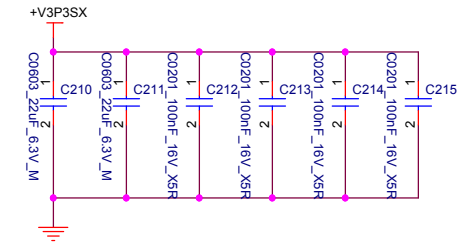
PLACE THESE AC CAPS CLOSE TO M.2 CONN

5 SATA_RXP0_SSD_DP<< SATA_RXN0_SSD_DN<<
5 SATA_TXN0_SSD_DN<< SATA_TXP0_SSD_DP<<
5 SATA_TXP0_SSD_DP<< SATA_TXN0_SSD_DN<<

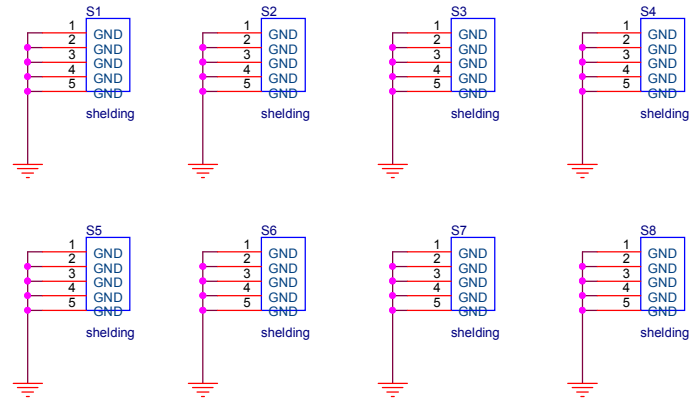
C216 1 2 C0201 10nF 16V X5R
C217 1 2 C0201 10nF 16V X5R
C218 1 2 C0201 10nF 16V X5R
C219 1 2 C0201 10nF 16V X5R




+V3P3SX



SATA_DEVS LDP 3 2 7
Q58 WNM2046-3/TR



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