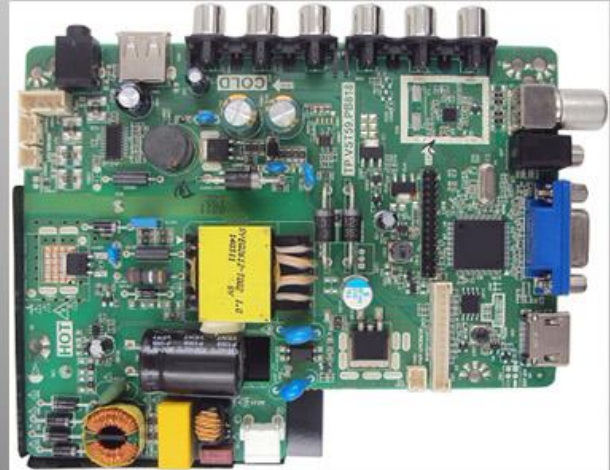


Universal TV Mainboard Schematic Diagrams



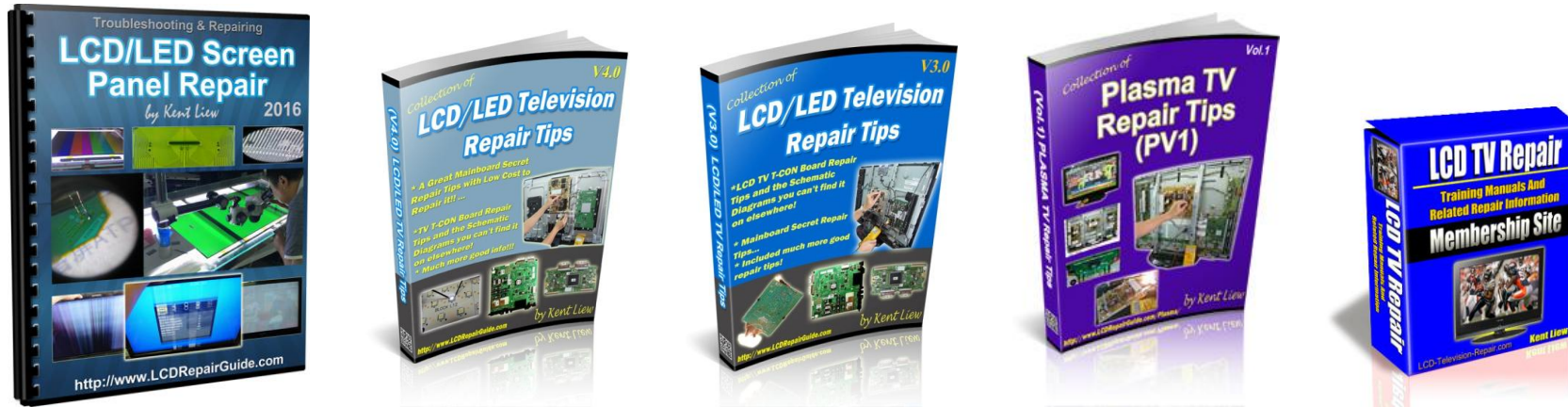
CONTENTS

| | |
|--|-----------------------|
| CV801LE-A-15 Universal Mainboard | ----- 15 pages |
| TP.VST59.P75_88W3 Universal Mainboard | ----- 8 pages |
| TP.VST59S.PB813_Rowa TV Power Schematic | – 6 pages |
| TP.VST59.PB818_Rowa TV Power Schematic | --- 8 pages |
| VST59S with TSUMV59S_ for LED32C610 TV | —10 pages |

Highly recommended other great related repair information for you:

With all these great repair information, it will help you in troubleshooting and repairing electronic and the other display devices:
(Please click on the ebook cover to get more details)

1) Best Selling Flat Screen TV Troubleshooting & Repairing Ebooks and Membership Sites:



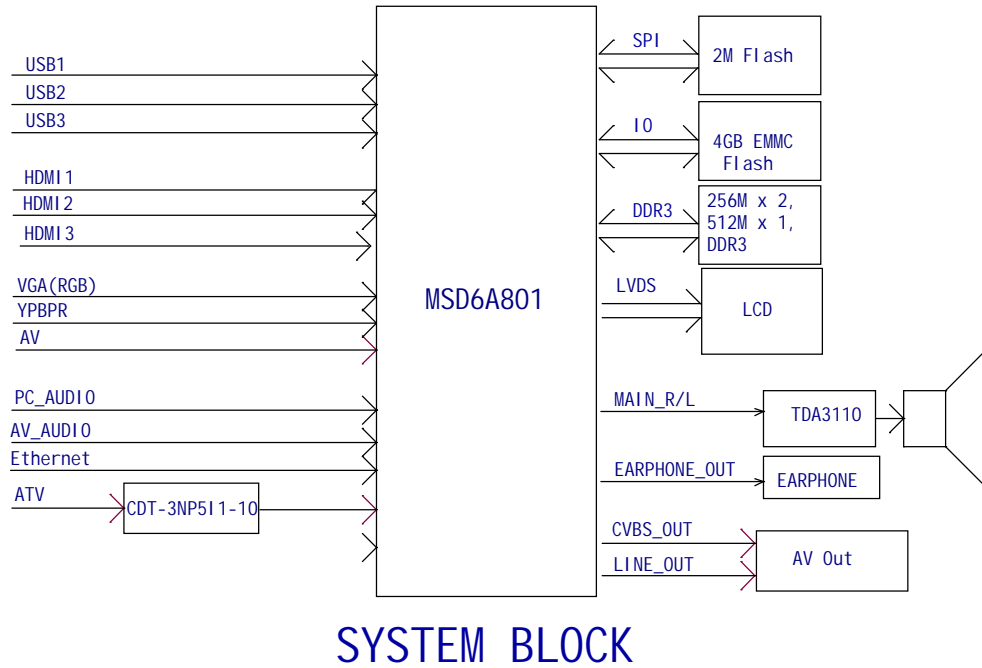
<http://www.LCDRepairGuide.com>

<http://www.lcd-television-repair.com/newsletter/Recommend.html>

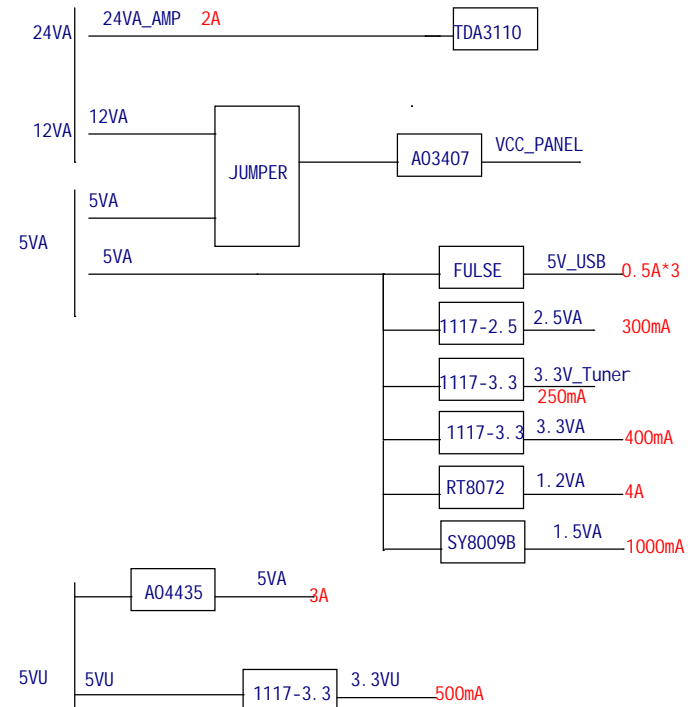
3) Other Great Electronic Repairing Ebooks:

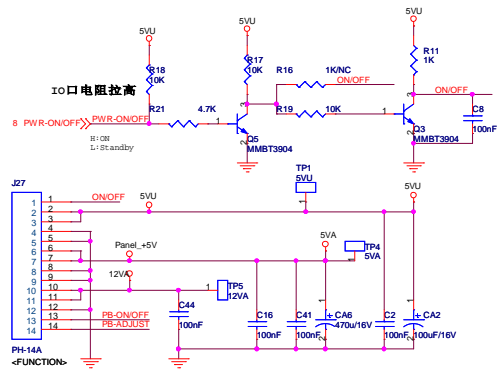


CV801LE-A-15

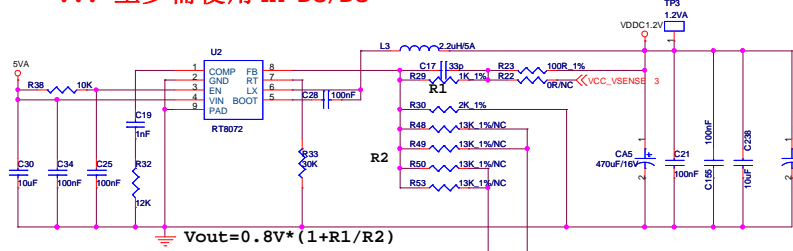


输入电源架构



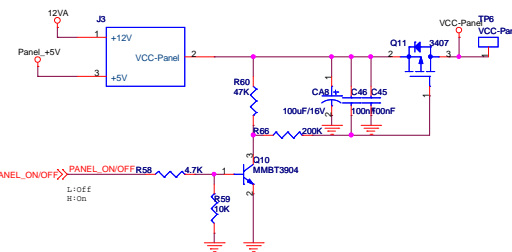
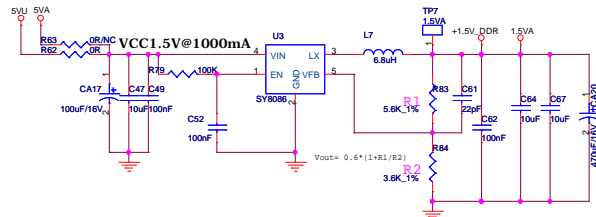
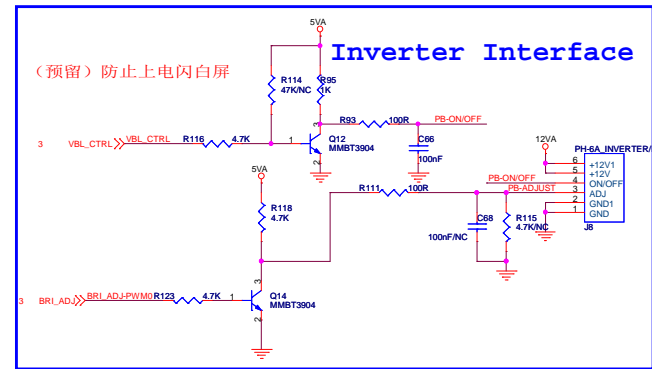
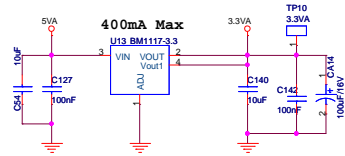
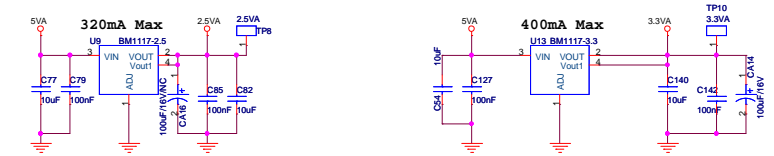
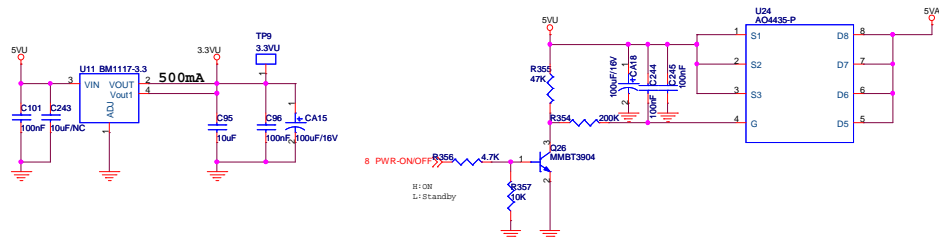


!!! 至少需使用4A DC/DC CORE POWER 1.2V



$$V_{out} = 0.8V * (1 + R1/R2)$$

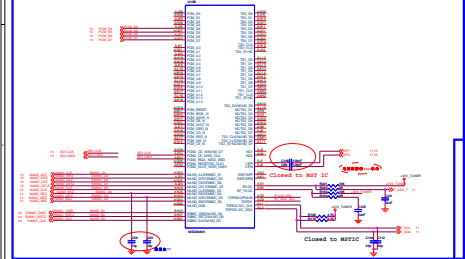
| VD1 | VD1 | R2 | VDDC |
|---------|---------|-------|-------|
| H | H | 3.45K | 1.26V |
| H | L or NC | 4.7K | 1.20V |
| L or NC | H | 3.45K | 1.15V |
| L or NC | L or NC | 3.45K | 1.10V |



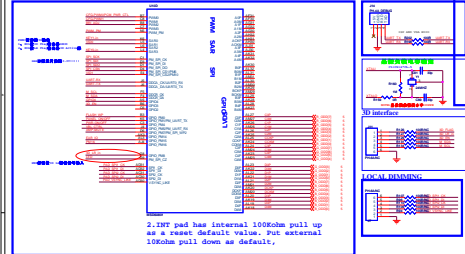
RGB & CVBS & LAN & USB



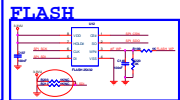
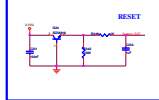
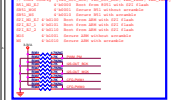
NAND & CI & TS & Front End



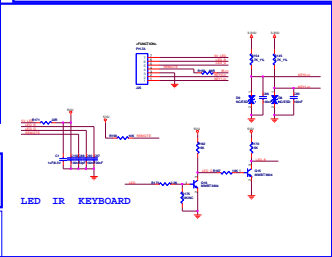
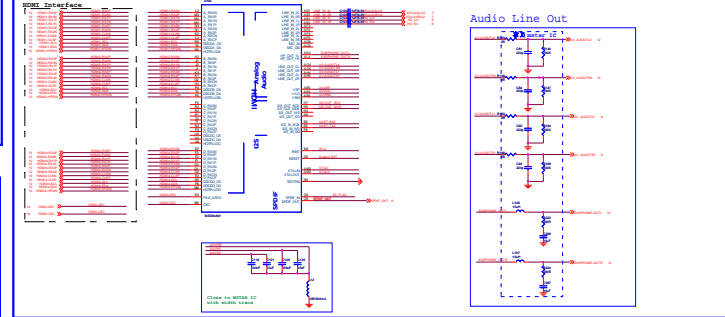
GPIO & LVDS



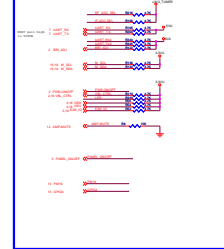
Mode Selection RESET



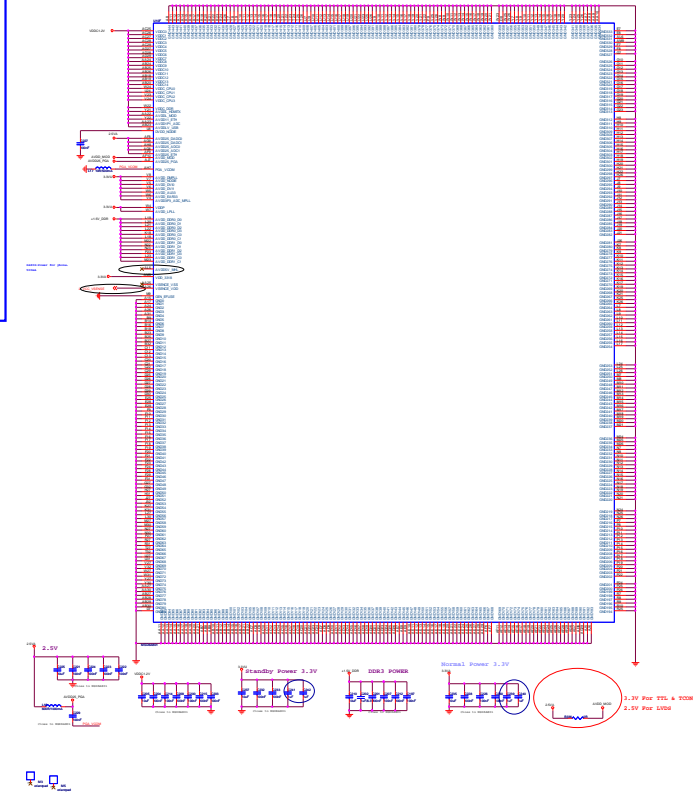
HDMI & Audio

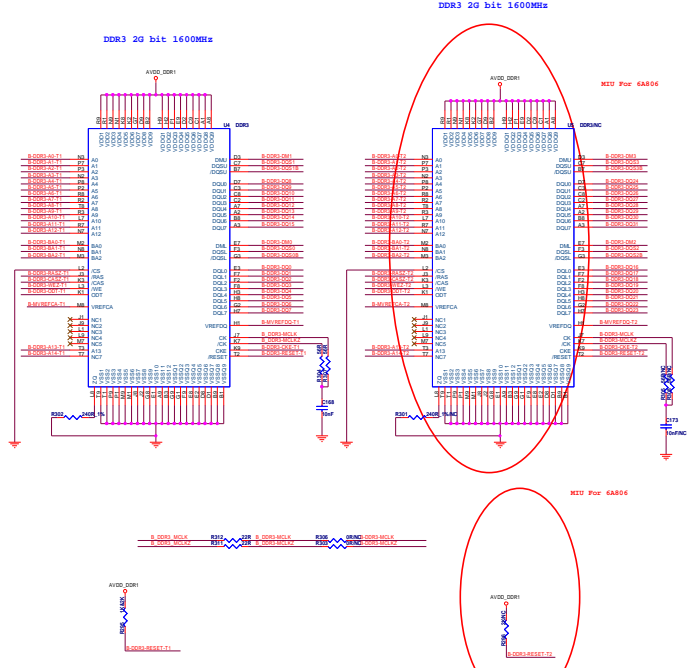
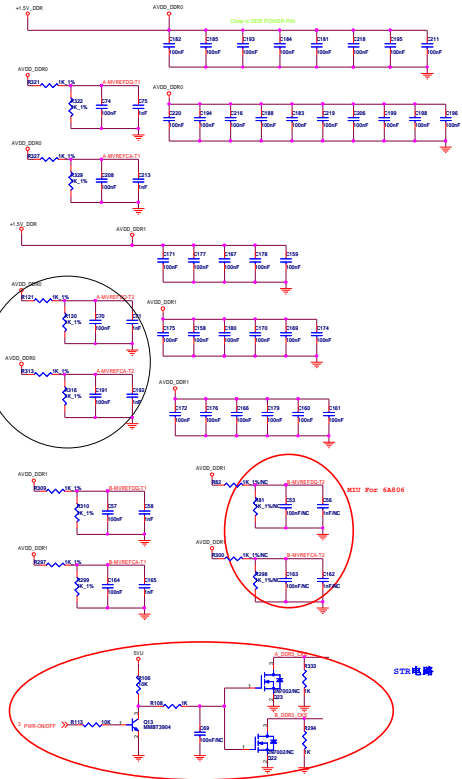
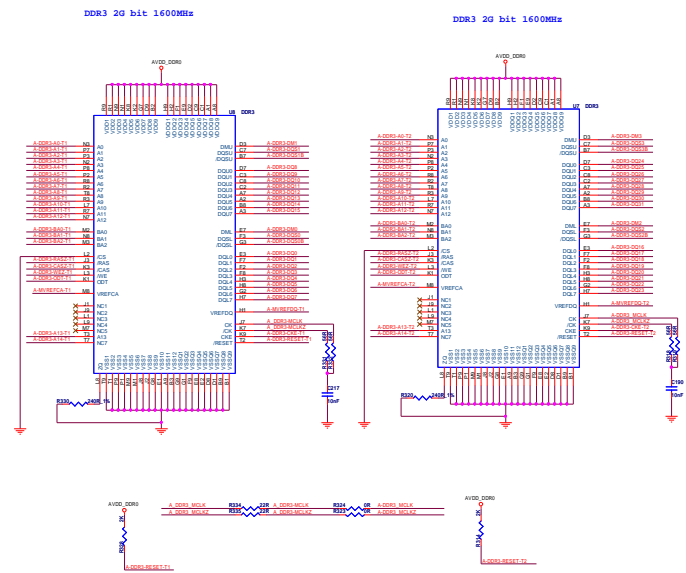
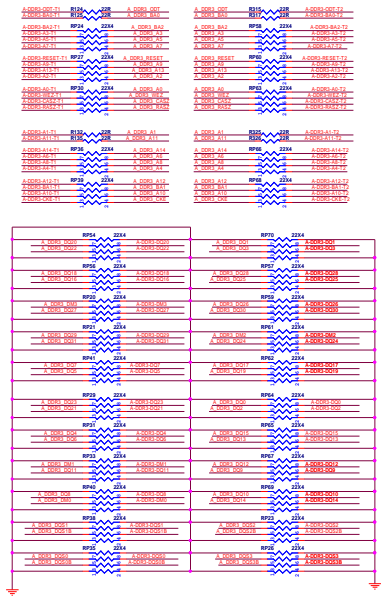
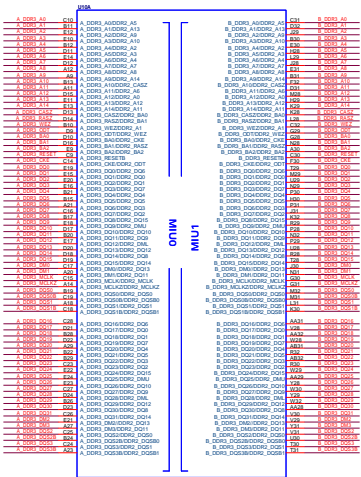


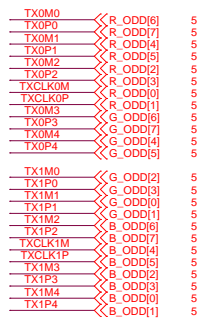
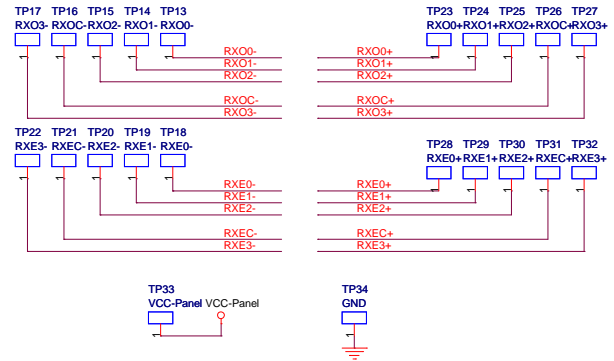
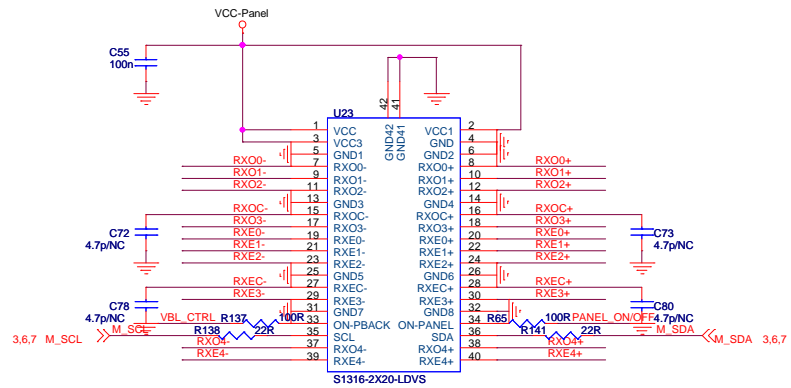
GPIO Pull Up/Down



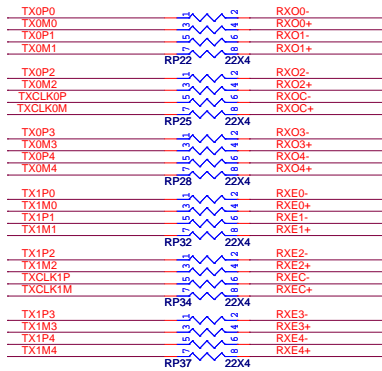
Power interface

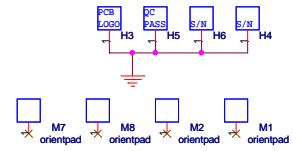
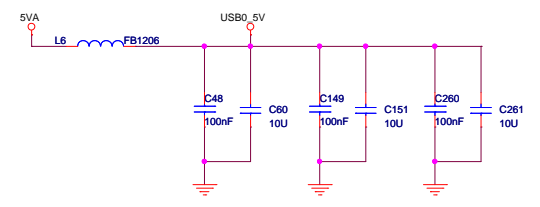
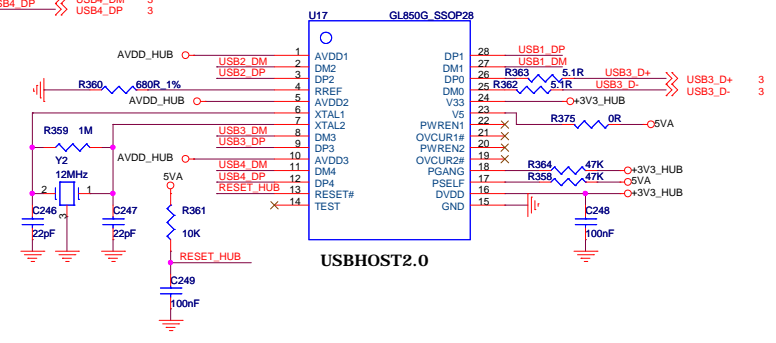
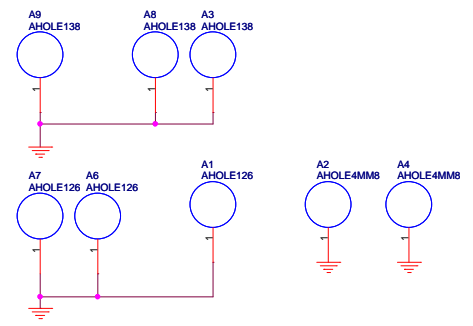
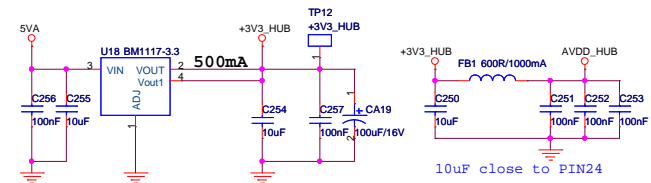
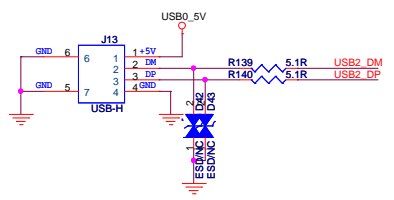
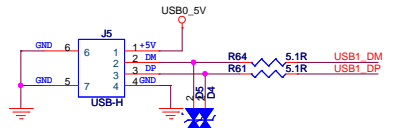
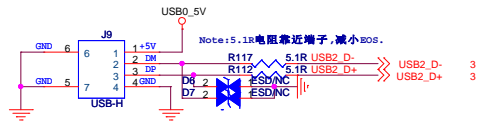
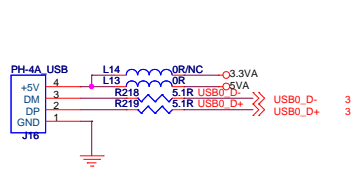


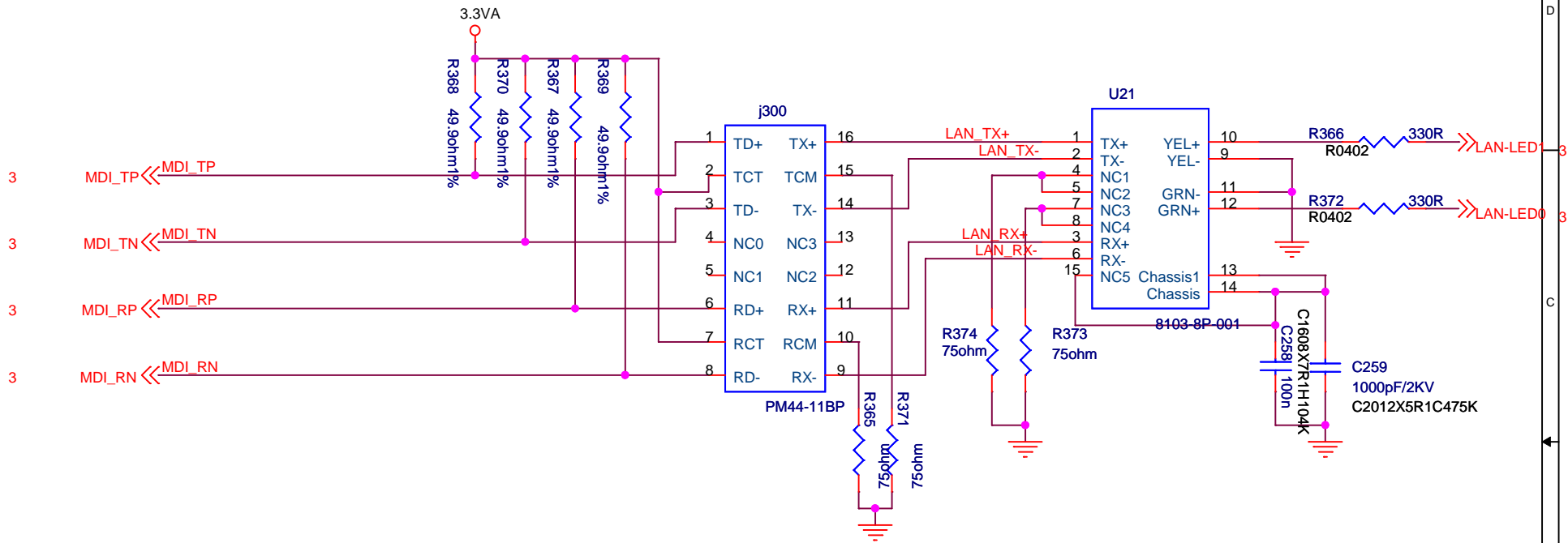




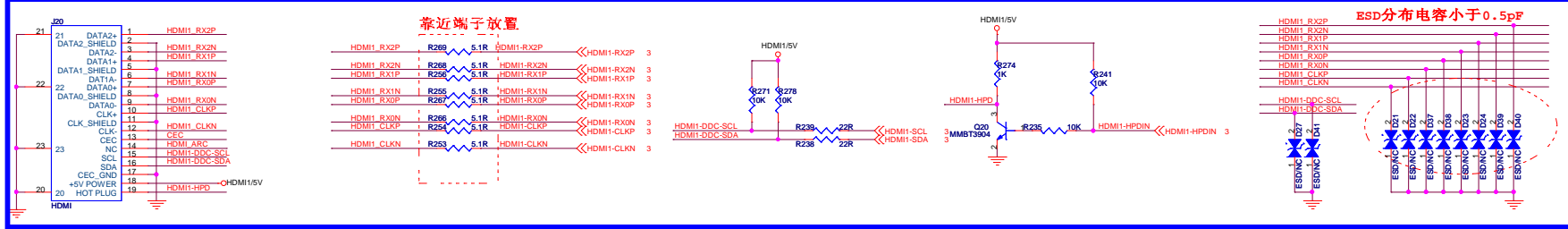
7 VBL_CTRL << VBL_CTRL
7 PANEL_ONOFF << PANEL_ONOFF



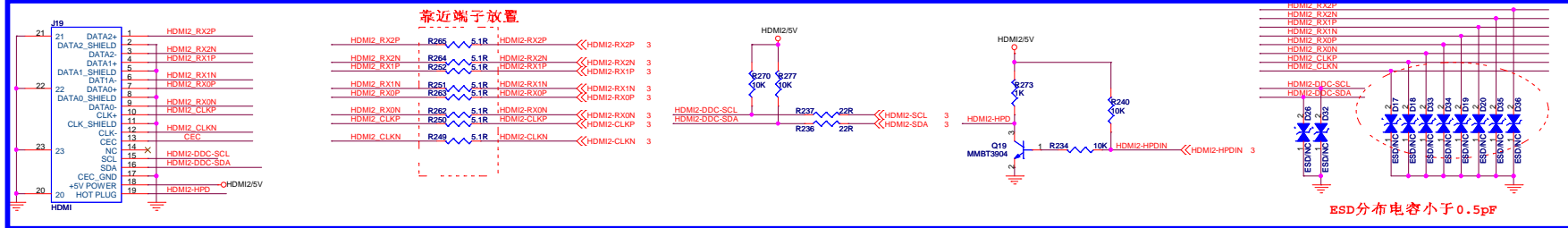




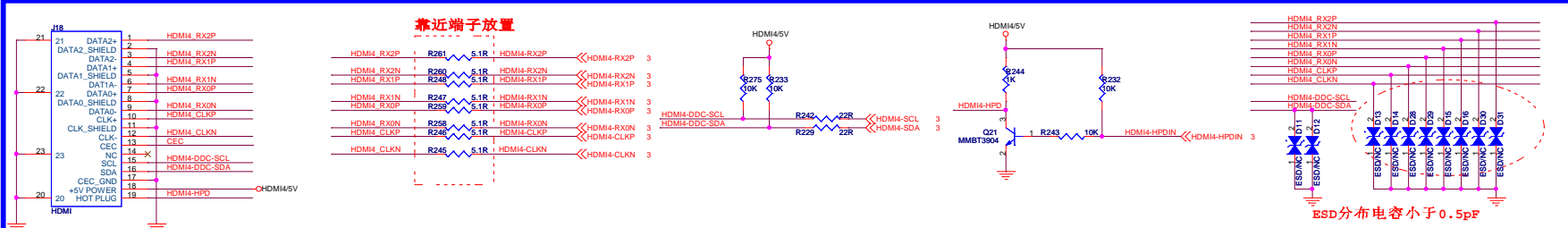
HDMI1



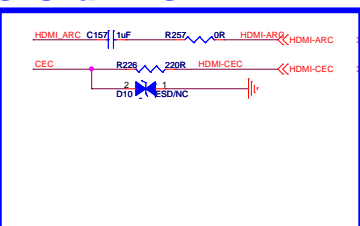
HDMI2



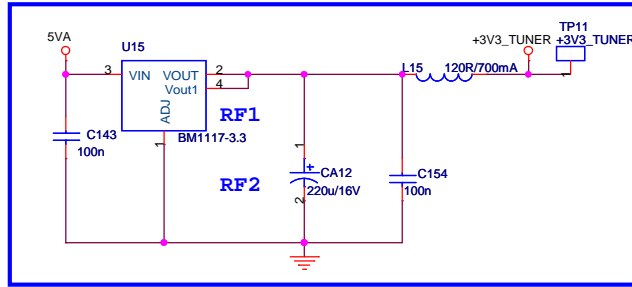
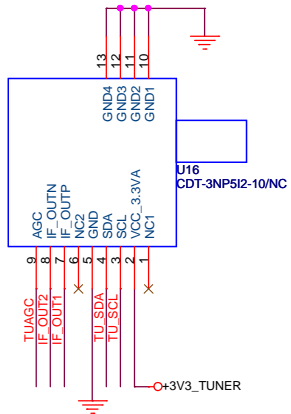
HDMI4



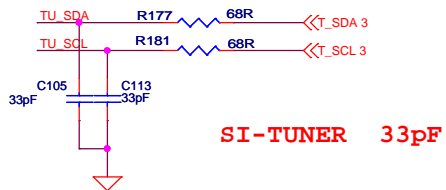
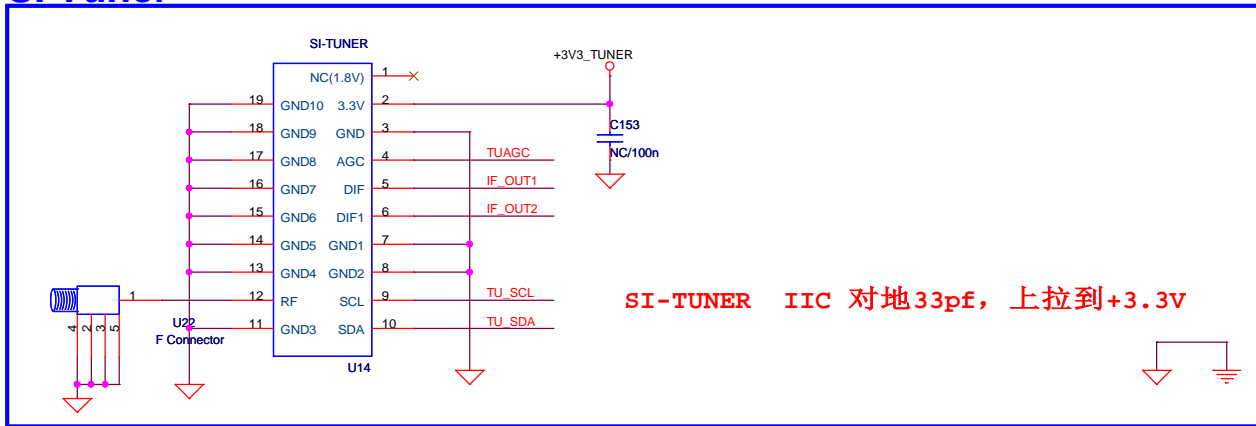
CEC & ARC



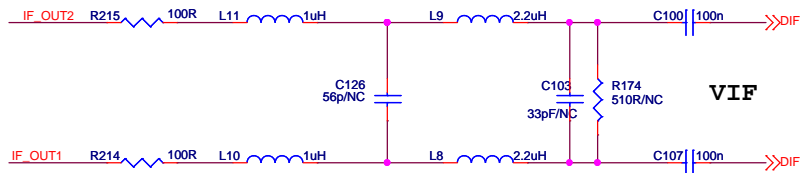
+3.3V SI-TUNER POWER



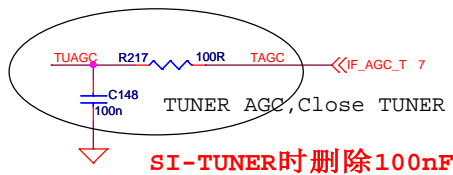
SI Tuner



SI-TUNER 33pF

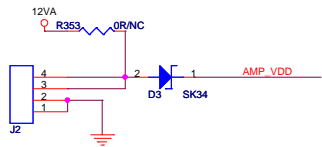


SI-TUNER时删除并联的100nH和220pF,
其它100nF、33R、51R均改为0R.



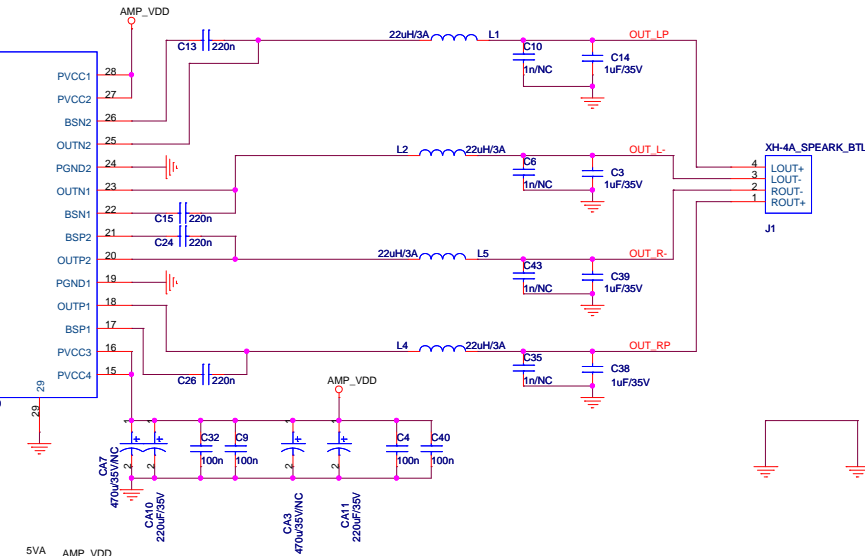
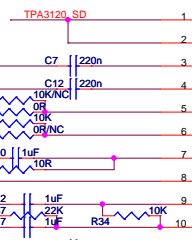
SI-TUNER时删除100nF.

| | | | |
|-------|-------------------------|------------------------------|---------|
| | | Title CV801LE-A-15 | |
| Size | Document Number | Rev | |
| | Custom 07.Tuner | 1.0 | |
| Date: | Monday, August 19, 2013 | Sheet | 2 of 11 |

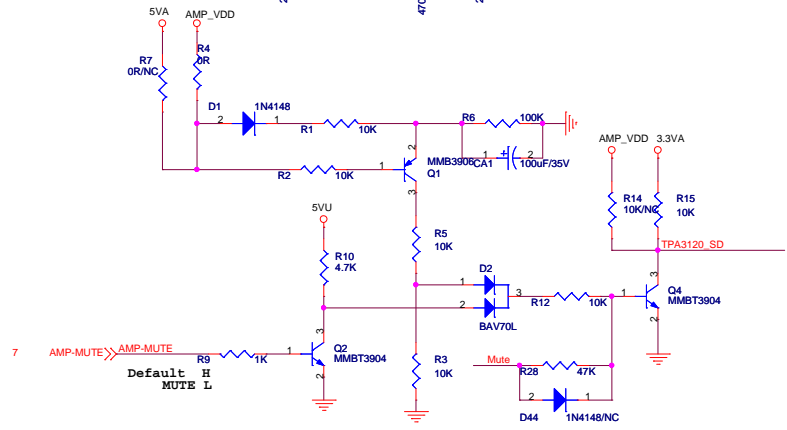
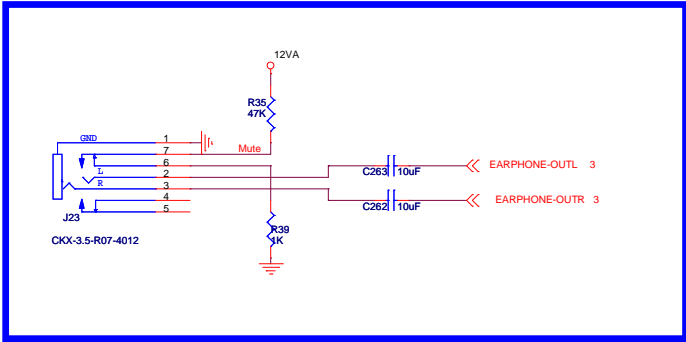


3 AV_AUOUTL0 >> AV_AUOUTL0

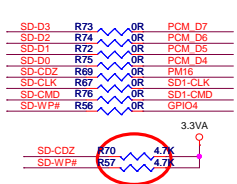
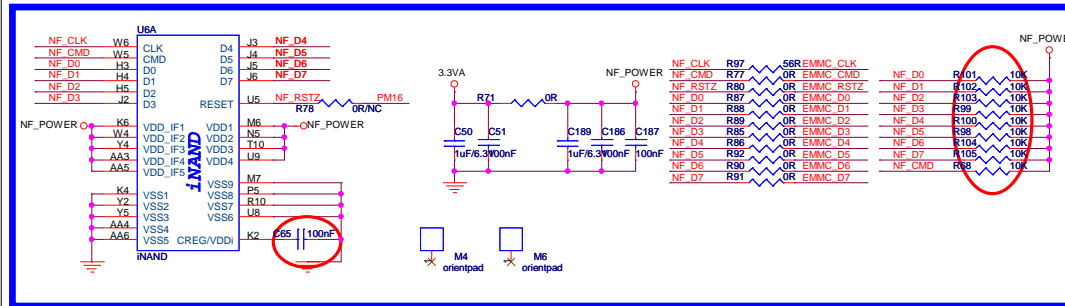
3 AV_AUOUTR0 >> AV_AUOUTR0



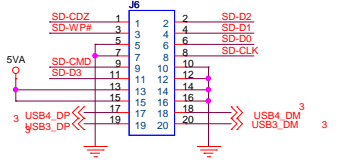
EARPHONE OUT



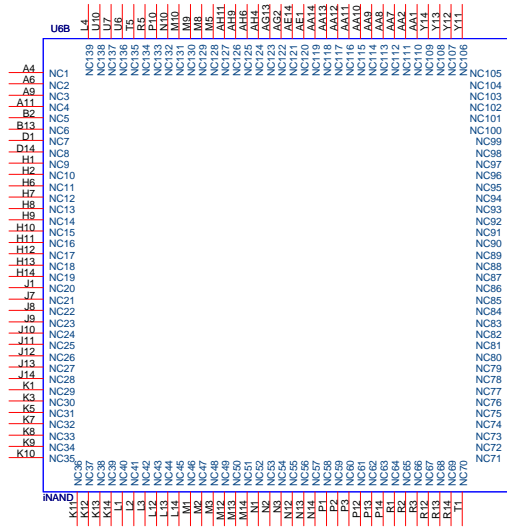
INAND FLASH

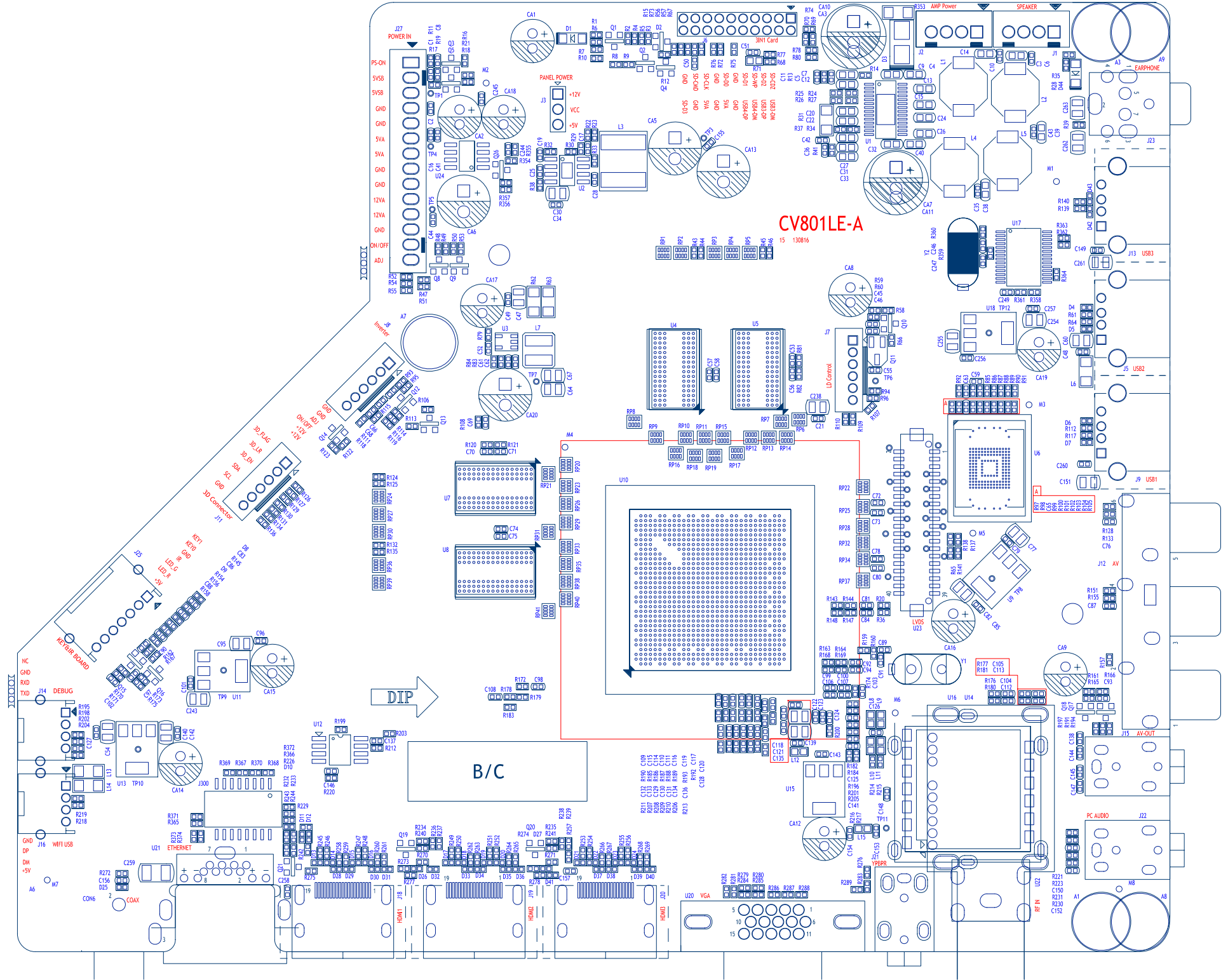


SD/MMC Card Reader



| | | |
|----------|-----------|---|
| EMMC_CMD | EMMC_CMD | 4 |
| EMMC_CLK | EMMC_CLK | 4 |
| EMMC_D0 | EMMC_RSTZ | 4 |
| EMMC_D1 | NAND_ALE | 4 |
| EMMC_D2 | NAND_RBZ | 4 |
| EMMC_D3 | NAND_WPZ | 4 |
| EMMC_D4 | NAND_WEZ | 4 |
| EMMC_D5 | NAND_REZ | 4 |
| EMMC_D6 | NAND_CLE | 4 |
| EMMC_D7 | NAND_CEZ | 4 |
| PM16 | NAND_CE12 | 4 |
| SD1-CLK | SD1-CLK | 4 |
| SD1-CMD | SD1-CMD | 4 |
| GPIO4 | GPIO4 | 4 |
| PCM_D4 | PCM_D4 | 4 |
| PCM_D6 | PCM_D6 | 4 |
| PCM_D5 | PCM_D5 | 4 |
| PCM_D7 | PCM_D7 | 4 |





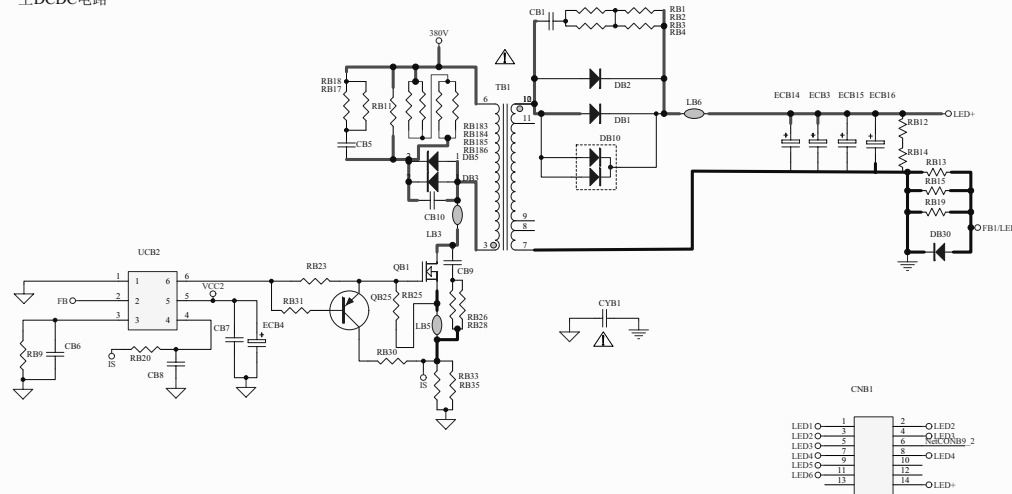
CV801E-A

15 130816

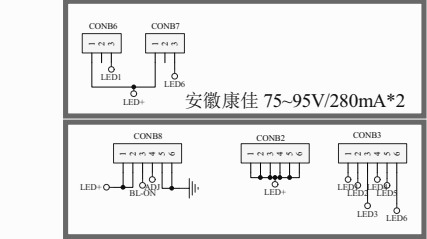
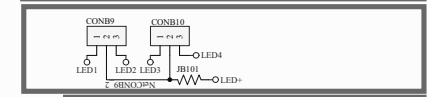
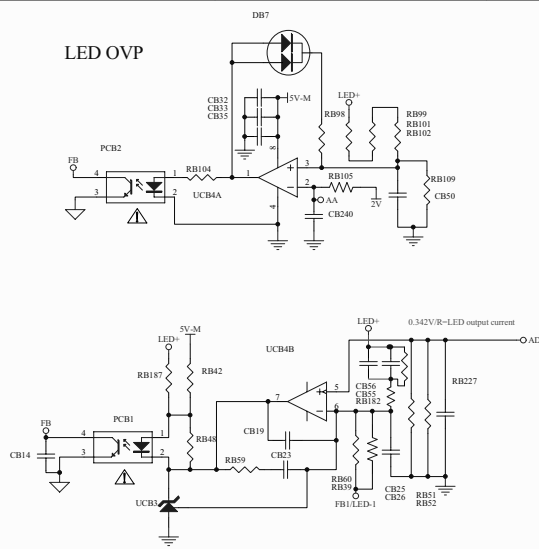
B/C

DIP

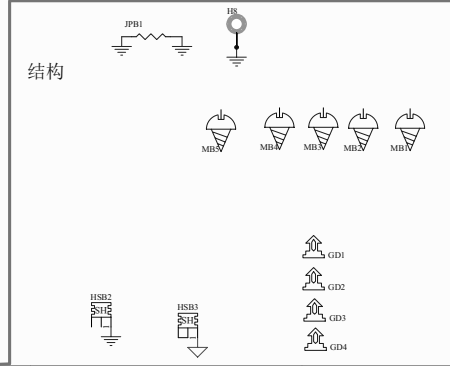
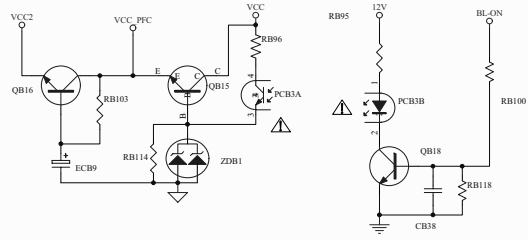
主DCDC电路



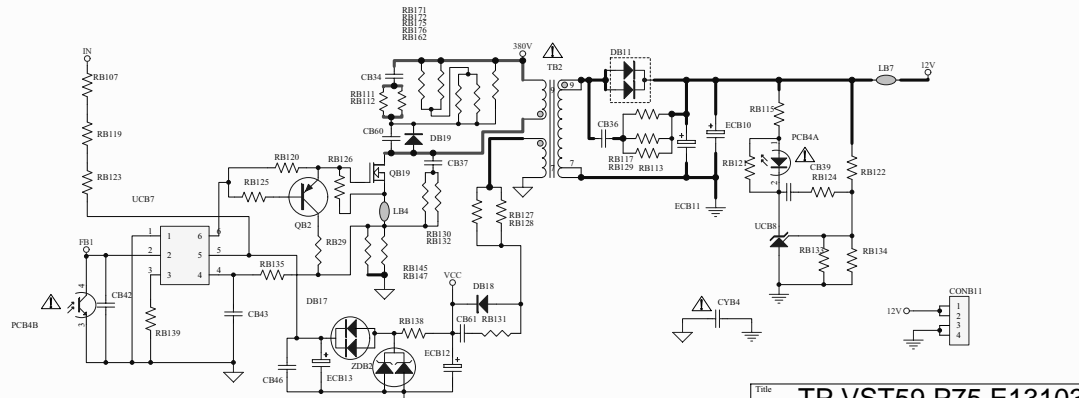
LED OVP



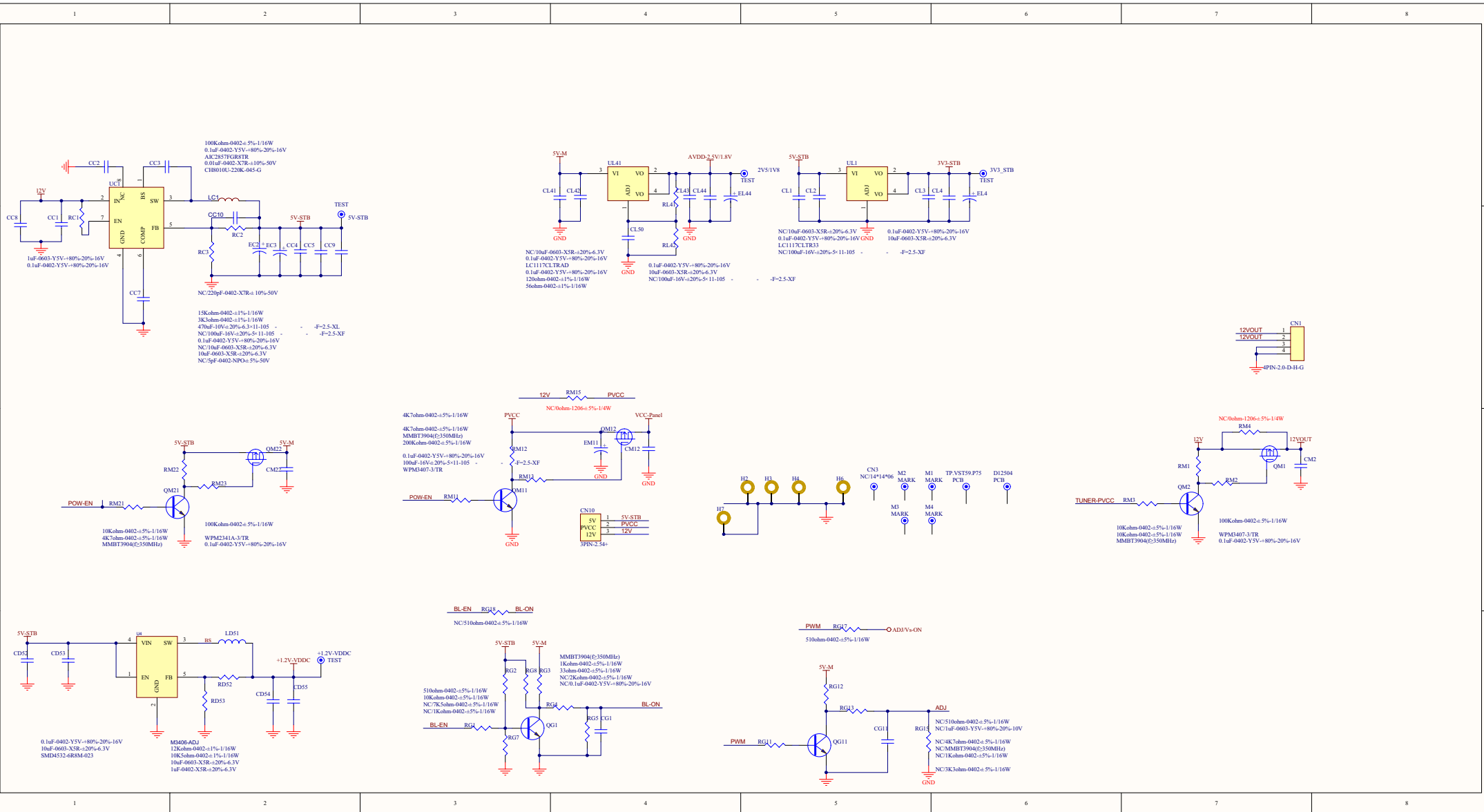
VCC控制电路

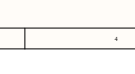
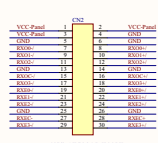
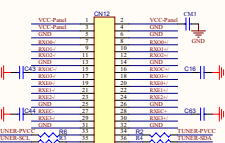
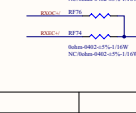
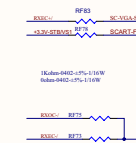
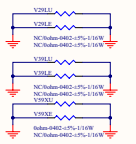
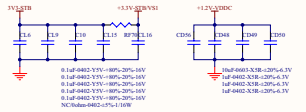
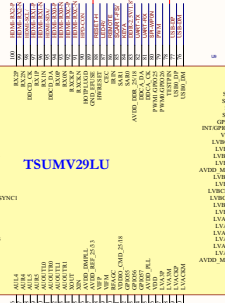
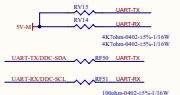
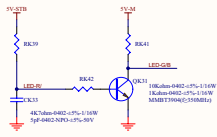
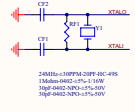
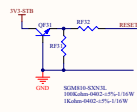
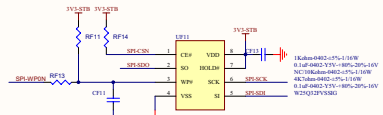
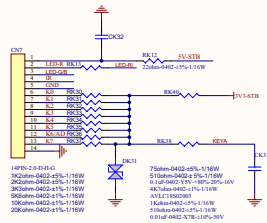


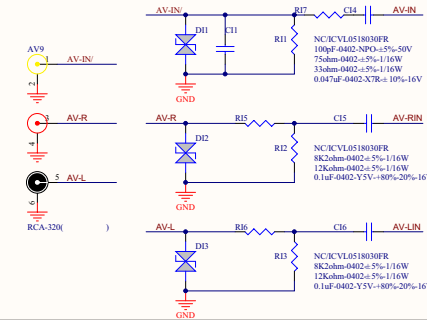
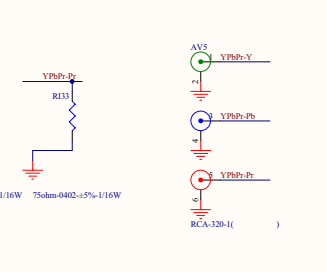
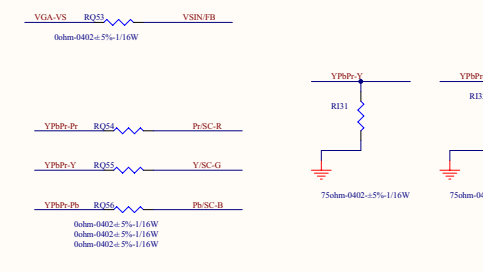
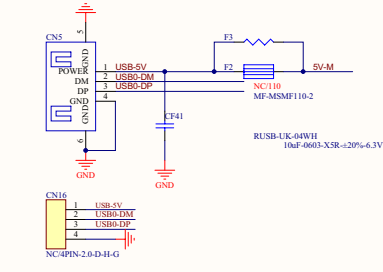
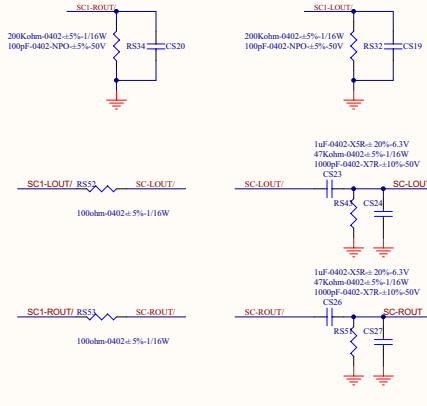
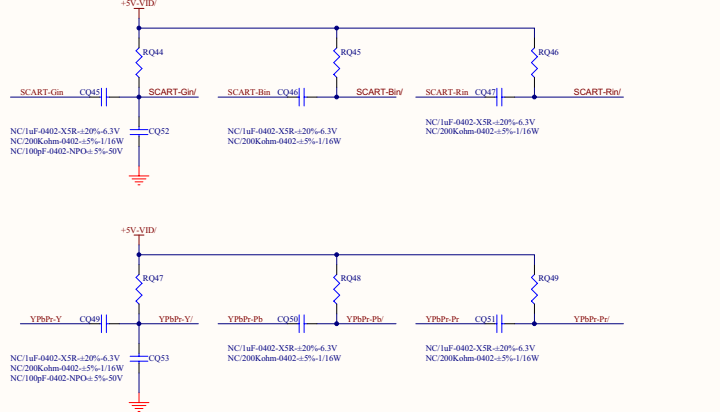
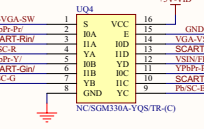
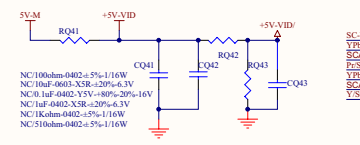
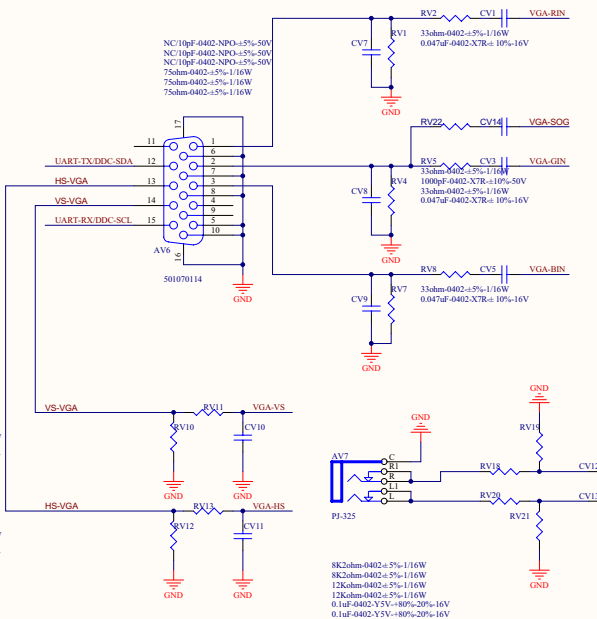
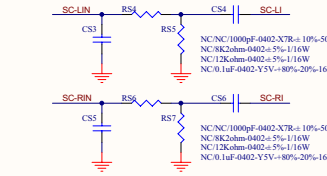
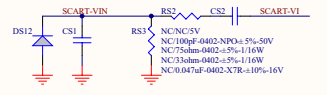
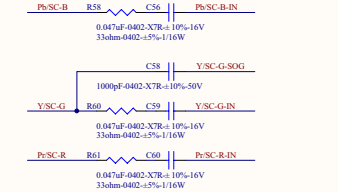
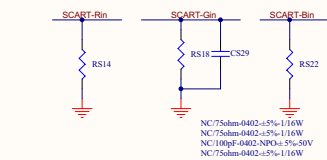
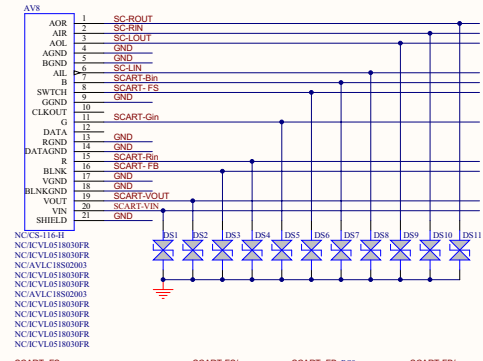
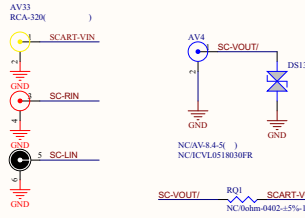
待机电路

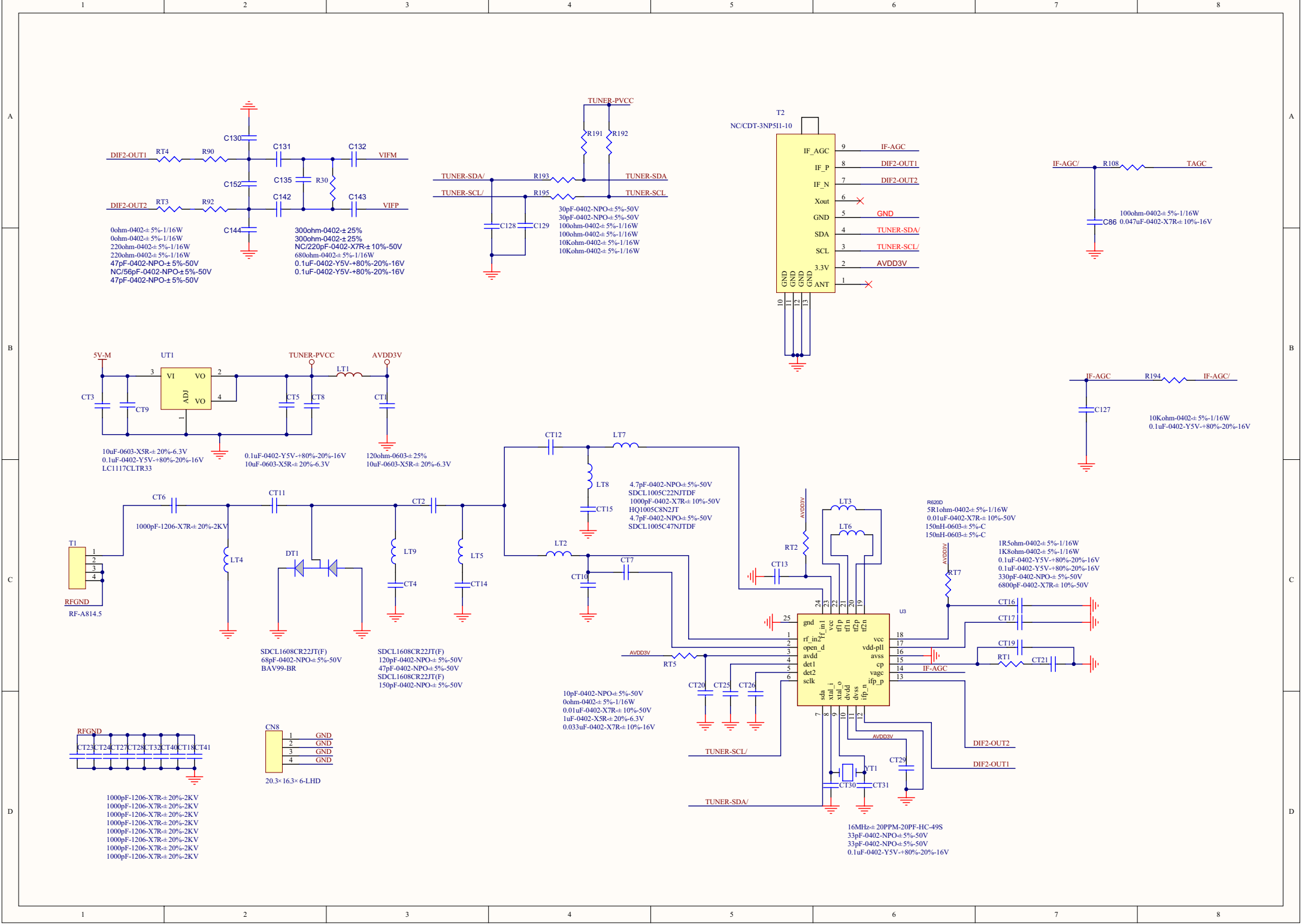


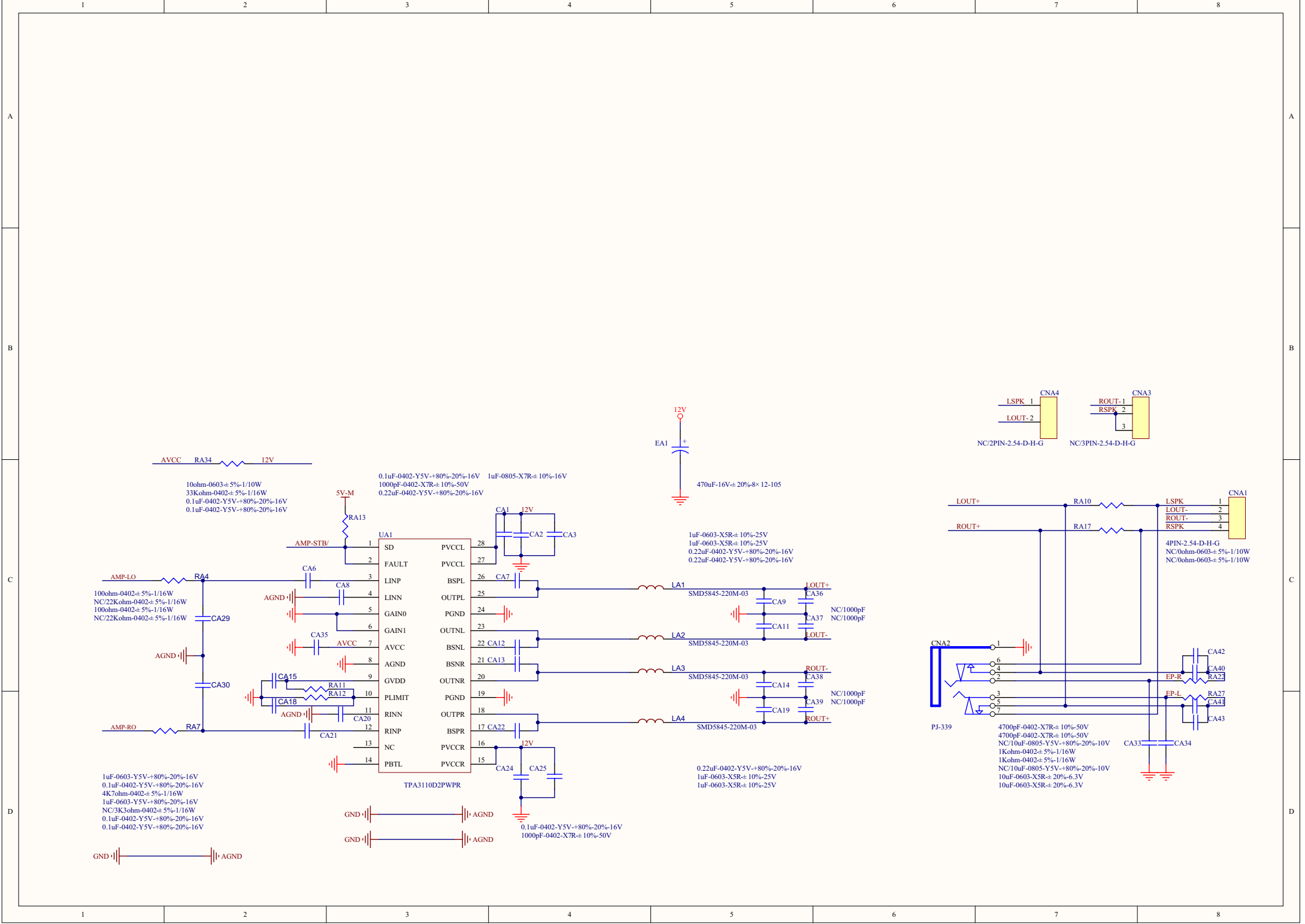
| | | |
|-------------------------------------|-----------|----------|
| Title TP.VST59.P75 E13103 | | |
| Size A2 | Number | Revision |
| Date 2012/12/15 | Sheet of | |
| File C:\Users\07.Power_board\SchDoc | Drawn By: | |











AVCC RA34 12V

10ohm-0603±5%-1/10W
 33Kohm-0402±5%-1/16W
 0.1uF-0402-Y5V+80%-20%-16V
 0.1uF-0402-Y5V+80%-20%-16V

0.1uF-0402-Y5V+80%-20%-16V
 1000pF-0402-X7R±10%-50V
 0.22uF-0402-Y5V+80%-20%-16V

12V
 EA1
 470uF-16V±20%-8×12-105

LSPK 1 CNA4
 LOUT-2
 NC/2PIN-2.54-D-H-G
 ROUT-1 CNA3
 RSPK 2
 3
 NC/3PIN-2.54-D-H-G

LOUT+ RA10 LSPK 1 CNA1
 ROUT+ RA17 RSPK 2
 LOUT- 3
 ROUT- 4
 4PIN-2.54-D-H-G
 NC/0ohm-0603±5%-1/10W
 NC/0ohm-0603±5%-1/10W

AMP-LO RA4
 100ohm-0402±5%-1/16W
 NC/22Kohm-0402±5%-1/16W
 100ohm-0402±5%-1/16W
 NC/22Kohm-0402±5%-1/16W

AGND CA6
 CA8
 CA35
 AVCC
 AGND

AGND CA30

AMP-RO RA7

CA15
 RA11
 RA12
 CA18
 CA20
 CA21
 AGND

1uF-0603-Y5V+80%-20%-16V
 0.1uF-0402-Y5V+80%-20%-16V
 4K7ohm-0402±5%-1/16W
 1uF-0603-Y5V+80%-20%-16V
 NC/3K3ohm-0402±5%-1/16W
 0.1uF-0402-Y5V+80%-20%-16V
 0.1uF-0402-Y5V+80%-20%-16V

GND AGND
 GND AGND

0.1uF-0402-Y5V+80%-20%-16V
 1000pF-0402-X7R±10%-50V

1uF-0603-X5R±10%-25V
 1uF-0603-X5R±10%-25V
 0.22uF-0402-Y5V+80%-20%-16V
 0.22uF-0402-Y5V+80%-20%-16V

LA1 SMD5845-220M-03
 CA9
 CA37
 NC/1000pF
 NC/1000pF

LA2 SMD5845-220M-03
 CA11
 CA38
 NC/1000pF
 NC/1000pF

LA3 SMD5845-220M-03
 CA14
 CA39
 NC/1000pF
 NC/1000pF

LA4 SMD5845-220M-03
 CA19

0.22uF-0402-Y5V+80%-20%-16V
 1uF-0603-X5R±10%-25V
 1uF-0603-X5R±10%-25V

PI-339

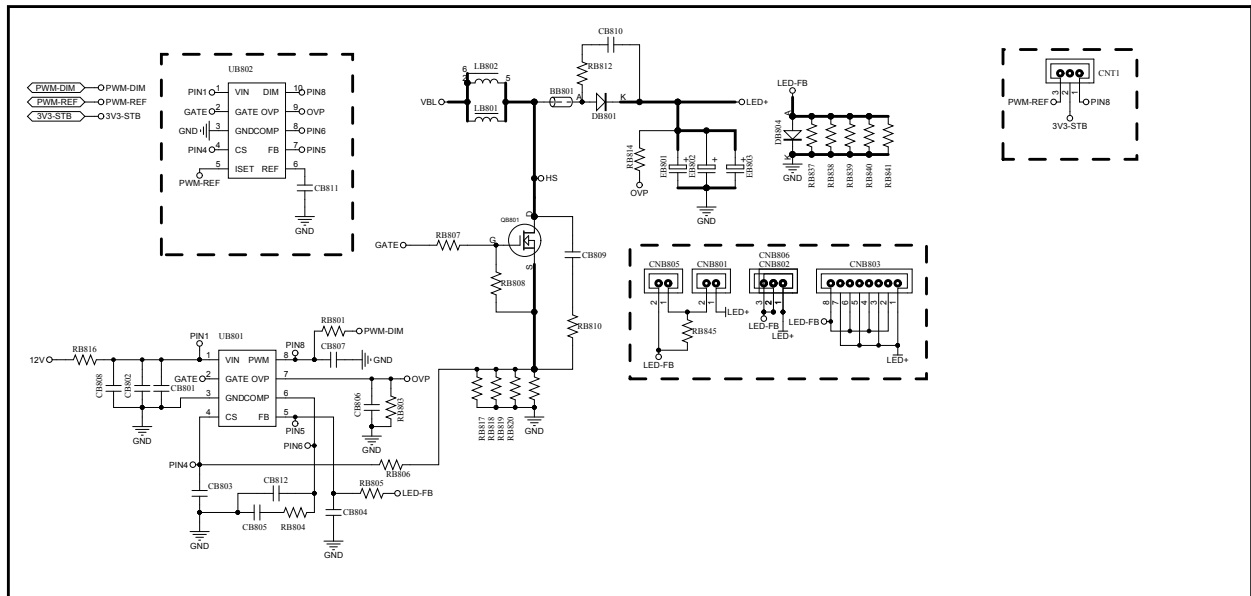
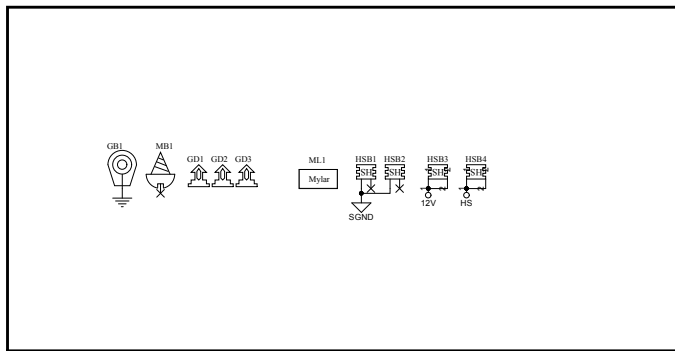
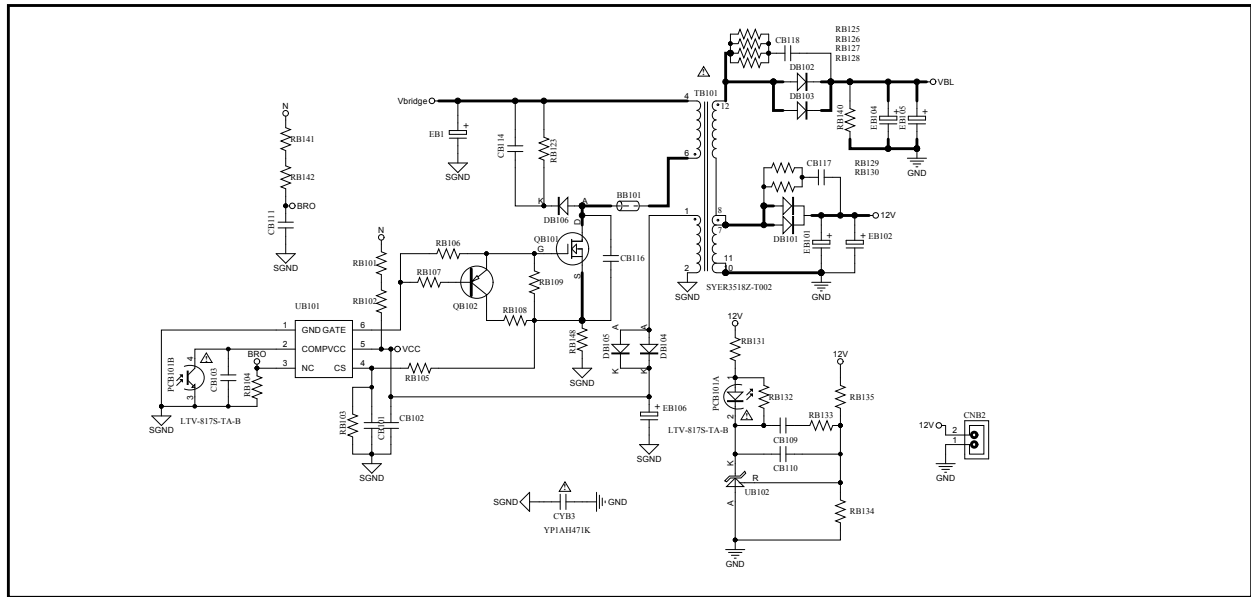
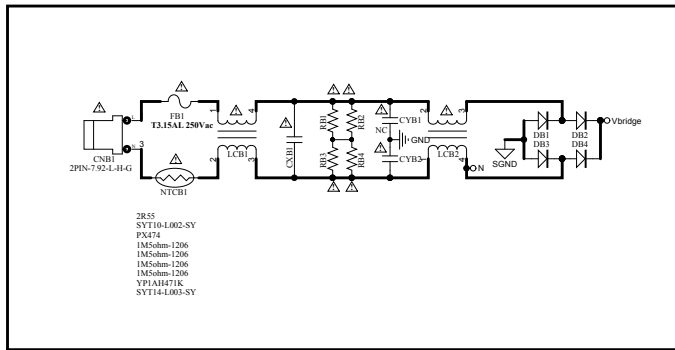
4700pF-0402-X7R±10%-50V
 4700pF-0402-X7R±10%-50V
 NC/10uF-0805-Y5V+80%-20%-10V
 1Kohm-0402±5%-1/16W
 1Kohm-0402±5%-1/16W
 NC/10uF-0805-Y5V+80%-20%-10V
 10uF-0603-X5R±10%-25V
 10uF-0603-X5R±10%-25V

CA33 CA34

CA42
 RA28
 CA40
 RA27
 CA41
 CA43

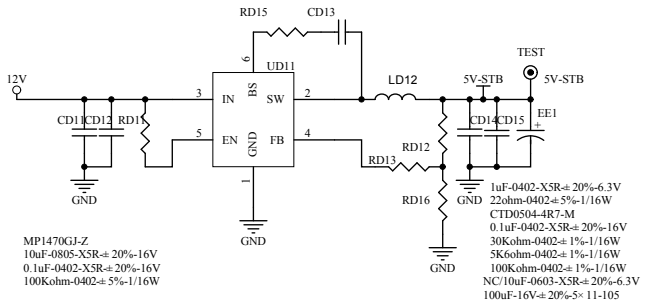
GND

TP.VST59S.PB813

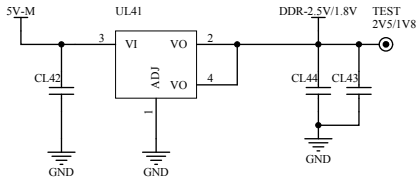


| | | | |
|-------------|-----------------------|----------|------------|
| Model Name: | TP-VST59S-PB813 B1365 | VERSION: | V1.0 |
| DRAWN: | Serjan Yang | DATE: | 2013-11-14 |
| CHKD: | | DATE: | 2013-11-14 |

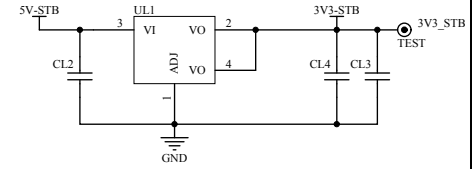




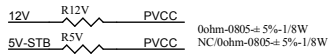
MP1470GJ-Z
 10uF-0805-X5R±20%-16V
 0.1uF-0402-X5R±20%-16V
 100Kohm-0402±5%-1/16W
 1uF-0402-X5R±20%-6.3V
 22ohm-0402±5%-1/16W
 CTD0504-4R7-M
 0.1uF-0402-X5R±20%-16V
 30Kohm-0402±1%-1/16W
 5K6ohm-0402±1%-1/16W
 100Kohm-0402±1%-1/16W
 NC/10uF-0603-X5R±20%-6.3V
 100uF-16V±20%-5-11-105



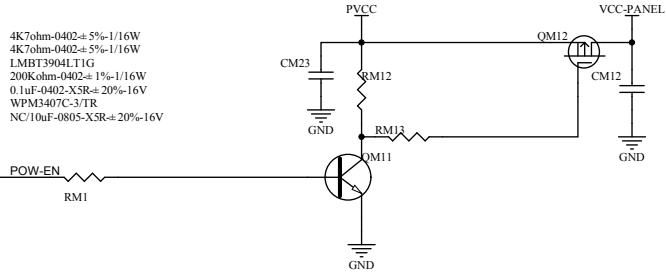
0.1uF-0402-X5R±20%-16V
 LC1117CLTR18
 NC/0.1uF-0402-X5R±20%-16V
 NC/10uF-0603-X5R±20%-6.3V



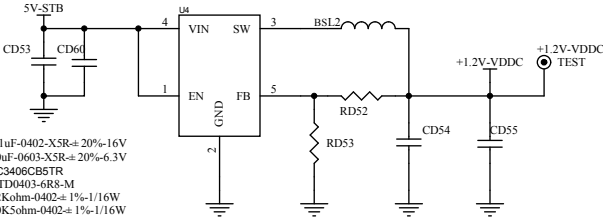
0.1uF-0402-X5R±20%-16V
 LC1117CLTR33
 10uF-0603-X5R±20%-6.3V
 NC/0.1uF-0402-X5R±20%-16V



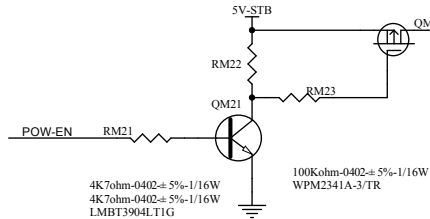
0ohm-0805±5%-1/8W
 NC/0ohm-0805±5%-1/8W



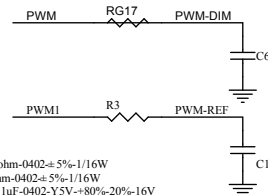
4K7ohm-0402±5%-1/16W
 4K7ohm-0402±5%-1/16W
 LMBT3904LT1G
 200Kohm-0402±1%-1/16W
 0.1uF-0402-X5R±20%-16V
 WPM3407C-3/TR
 NC/10uF-0805-X5R±20%-16V



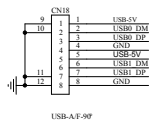
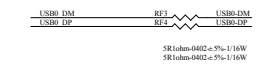
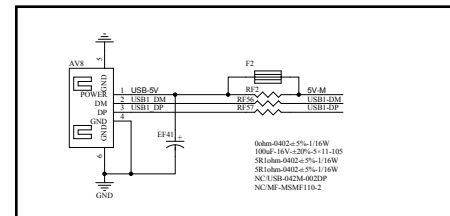
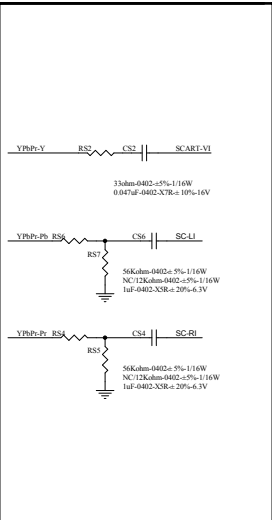
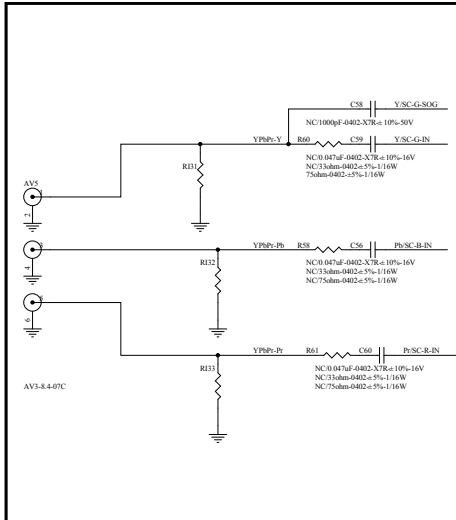
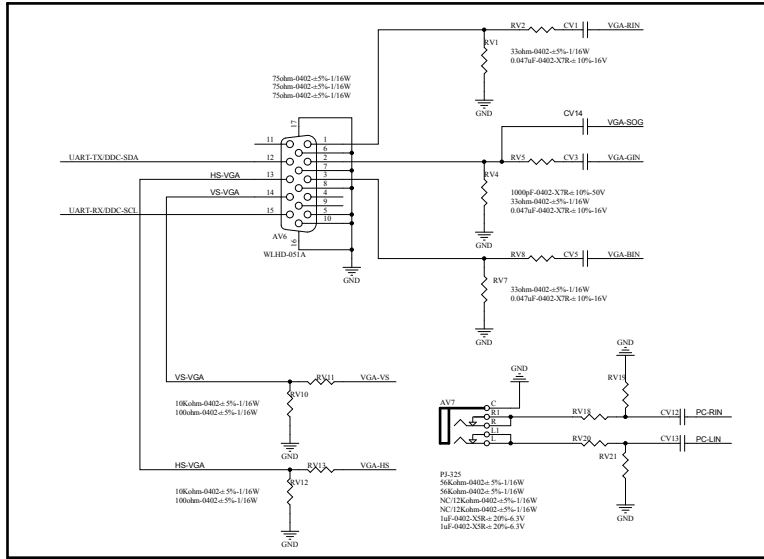
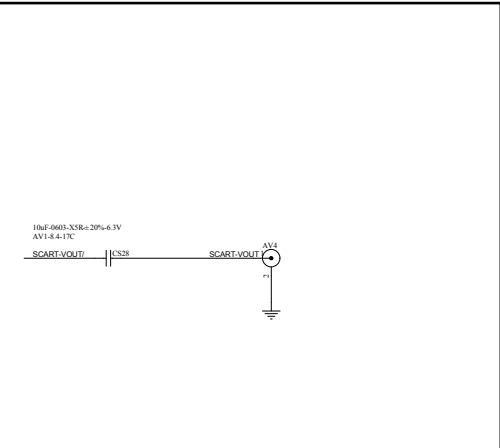
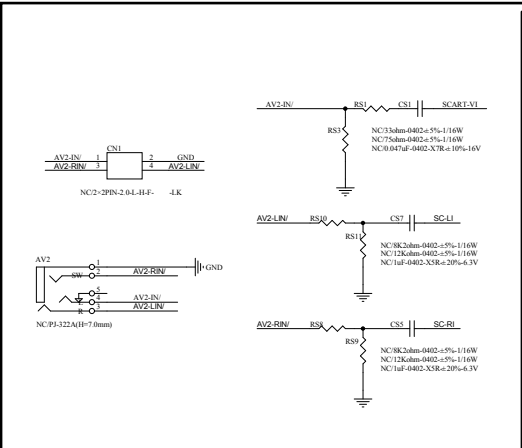
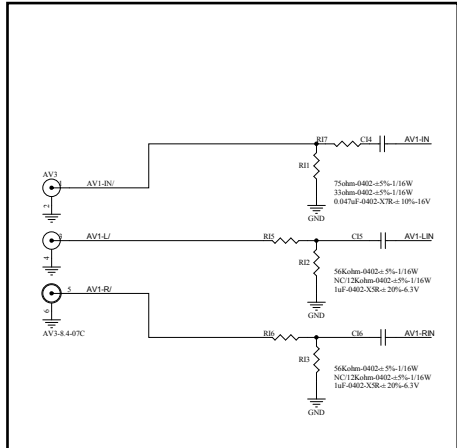
0.1uF-0402-X5R±20%-16V
 10uF-0603-X5R±20%-6.3V
 LC3406CBSTR
 CTD0403-GR8-M
 12Kohm-0402±1%-1/16W
 10K5ohm-0402±1%-1/16W
 10uF-0603-X5R±20%-6.3V
 0.1uF-0402-X5R±20%-16V



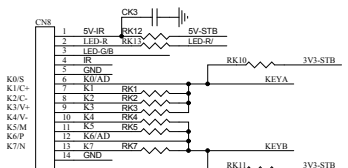
100Kohm-0402±5%-1/16W
 WPM2341A-3/TR
 4K7ohm-0402±5%-1/16W
 4K7ohm-0402±5%-1/16W
 LMBT3904LT1G



NC/0ohm-0402±5%-1/16W
 510ohm-0402±5%-1/16W
 NC/0.1uF-0402-Y5V±80%-20%-16V
 NC/0.1uF-0402-Y5V±80%-20%-16V

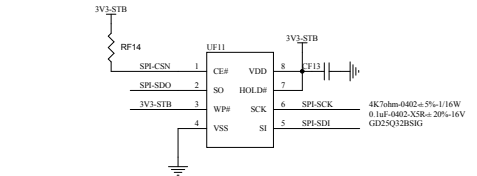


| Title | | | |
|-------|-----------------------|------------|---------|
| Size | Number | Revision | |
| A1 | | | |
| Date | 2011/12/21 | Drawn by | 11/2011 |
| File | AV1-8-47C-IN-DP-SCART | Checked by | |

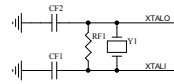


14PIN-2.0-D4-H-G-B
 NC 0 1uF-0402-XSR±20%-6.3V
 220n-0402±5%-110W
 1K50m-0402±5%-116W
 4K70m-0402±5%-116W
 12K0m-0402±5%-116W
 4K70m-0402±5%-116W
 1K50m-0402±5%-116W

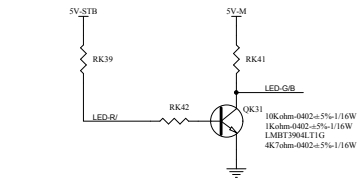
510k-0402±5%-116W
 4K70m-0402±5%-116W
 100k-0402±5%-116W
 100k-0402±5%-116W



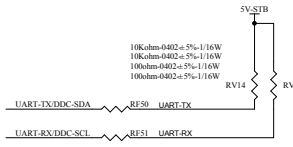
4K70m-0402±5%-116W
 0.1uF-0402-XSR±20%-6.3V
 GD25Q32B85G



24MHz±20PPM-20PF-HC-49S
 15k-0402±5%-110W
 33pF-0402-NPO±5%-50V
 33pF-0402-NPO±5%-50V



10k-0402±5%-116W
 1k-0402±5%-116W
 1.8M1.5W-11G
 4K70m-0402±5%-116W



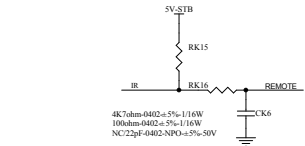
10k-0402±5%-116W
 10k-0402±5%-116W
 100k-0402±5%-116W
 100k-0402±5%-116W

| TEST MASKS | TEST MASKS | TEST MASKS | TEST MASKS |
|------------|------------|------------|------------|
| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | 32 |
| 33 | 34 | 35 | 36 |
| 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 |
| 45 | 46 | 47 | 48 |
| 49 | 50 | 51 | 52 |
| 53 | 54 | 55 | 56 |
| 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 |
| 65 | 66 | 67 | 68 |
| 69 | 70 | 71 | 72 |
| 73 | 74 | 75 | 76 |
| 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 |
| 85 | 86 | 87 | 88 |
| 89 | 90 | 91 | 92 |
| 93 | 94 | 95 | 96 |
| 97 | 98 | 99 | 100 |

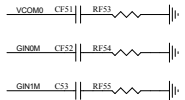
TSUMV59MS

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|

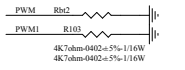
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|



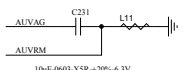
4K70m-0402±5%-116W
 100k-0402±5%-116W
 4K70m-0402±5%-116W
 NC 22pF-0402-NPO±5%-50V



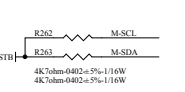
0.047uF-0402-X7R±10%-16V
 68k-0402±5%-116W
 0.047uF-0402-X7R±10%-16V
 68k-0402±5%-116W
 0.047uF-0402-X7R±10%-16V
 68k-0402±5%-116W



200k-0402±5%-116W
 NC 22pF-0402-X7R±10%-50V
 4K70m-0402±5%-116W
 4K70m-0402±5%-116W



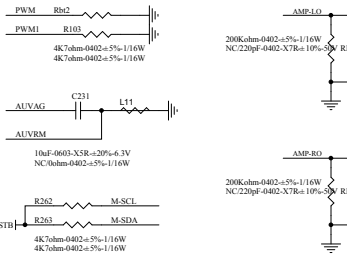
10uF-0402-XSR±20%-6.3V
 NC 0402±5%-116W



200k-0402±5%-116W
 NC 22pF-0402-X7R±10%-50V
 4K70m-0402±5%-116W
 4K70m-0402±5%-116W

TSUMV59XUS-Z1

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|

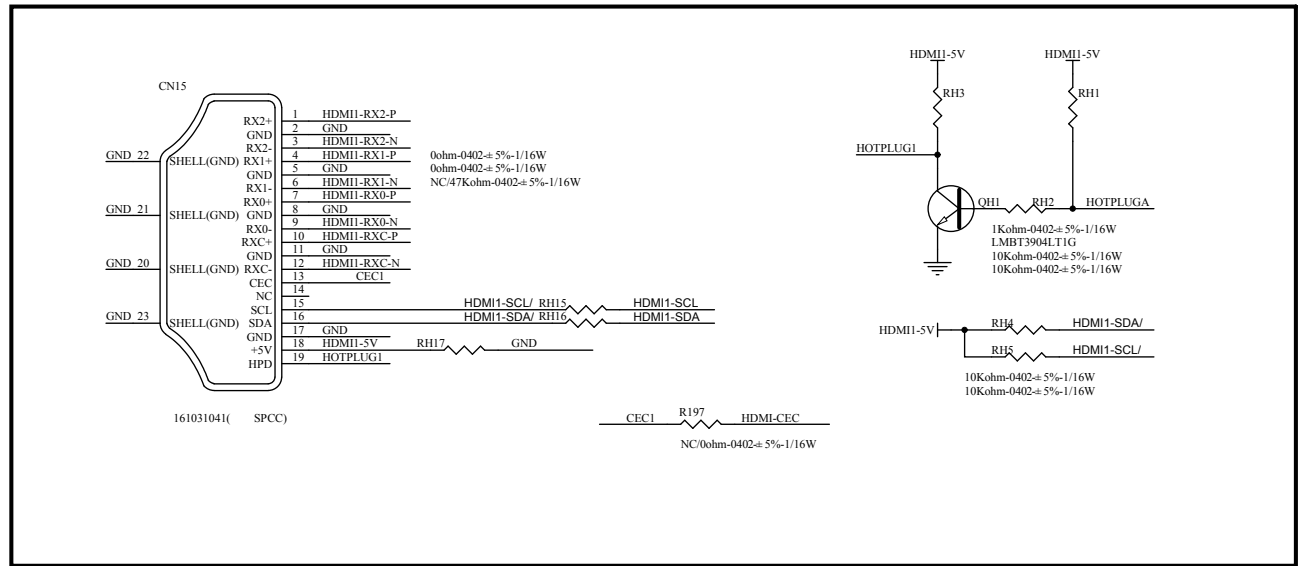


200k-0402±5%-116W
 NC 22pF-0402-X7R±10%-50V
 4K70m-0402±5%-116W
 4K70m-0402±5%-116W

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

NC12 2-15PIN-2.0-D4-H-M (-2.6mm) LDI (6PIN)

A

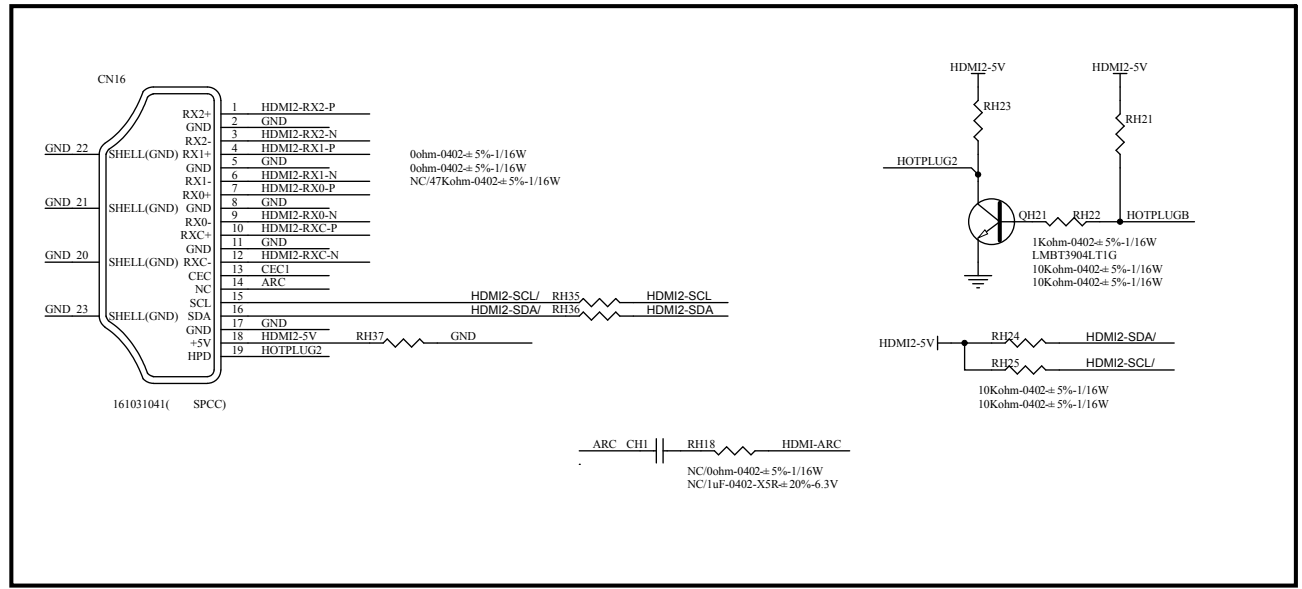


A

B

B

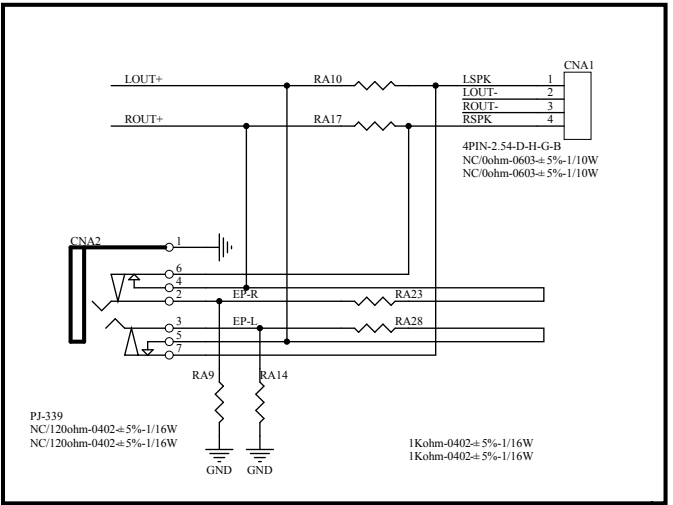
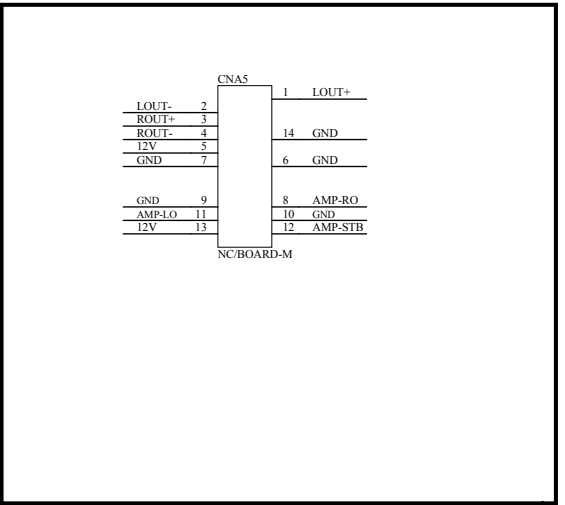
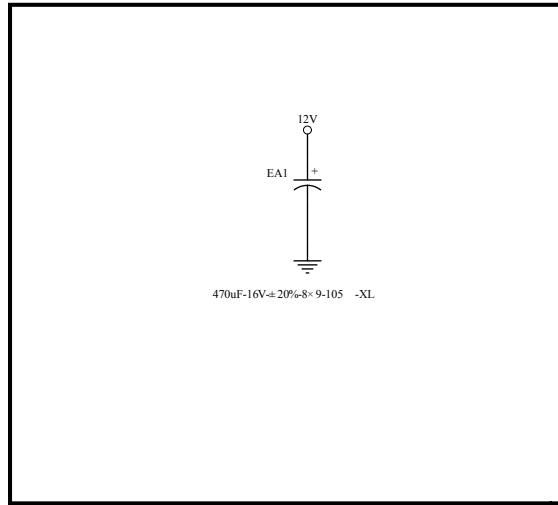
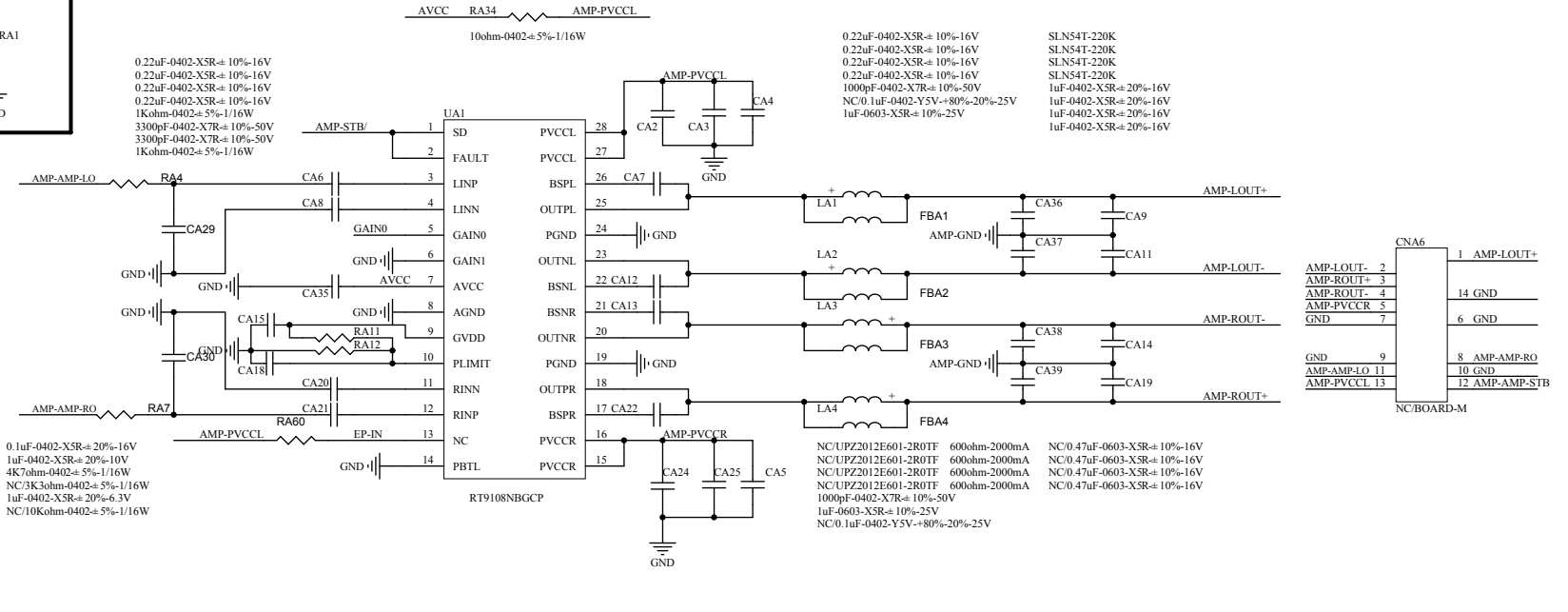
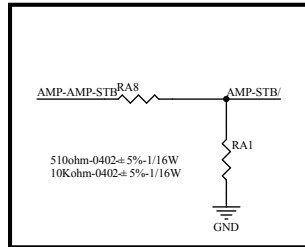
C

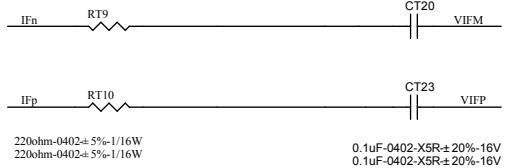


C

D

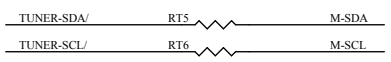
D



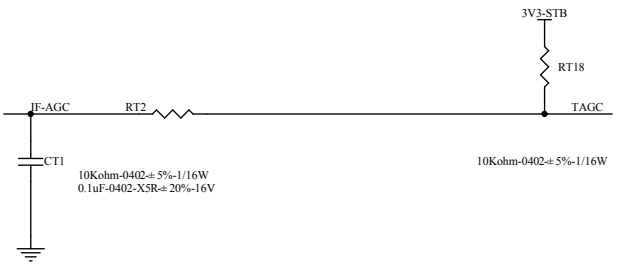


220ohm-0402±5%-1/16W
220ohm-0402±5%-1/16W

0.1uF-0402-X5R±20%-16V
0.1uF-0402-X5R±20%-16V

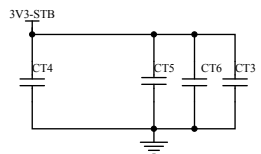


100ohm-0402±5%-1/16W
100ohm-0402±5%-1/16W

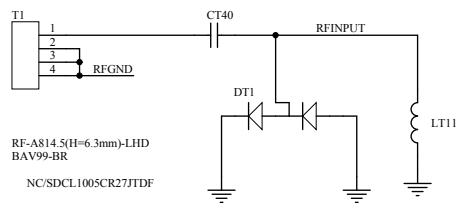


10Kohm-0402±5%-1/16W
0.1uF-0402-X5R±20%-16V

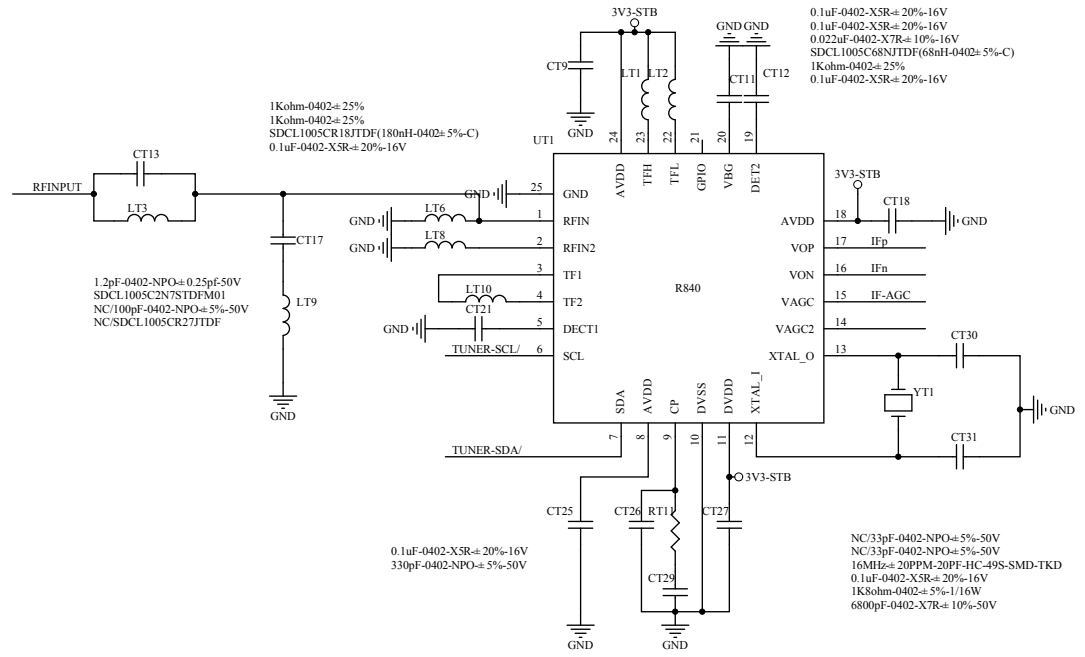
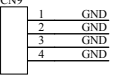
10Kohm-0402±5%-1/16W




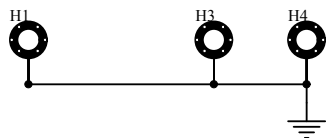
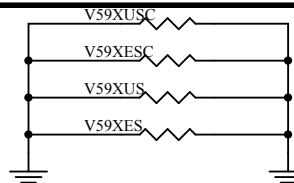


0.1uF-0402-X5R±20%-16V
10uF-0603-X5R±20%-6.3V
NC/10uF-0603-X5R±20%-6.3V
NC/10uF-0603-X5R±20%-6.3V

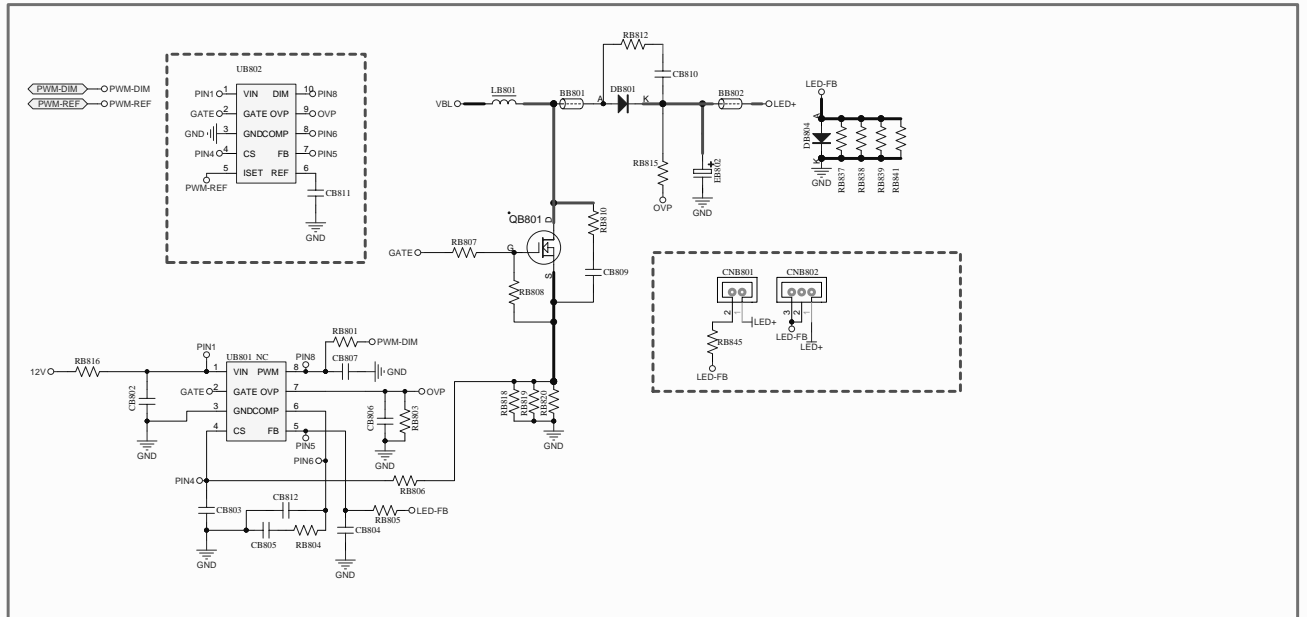
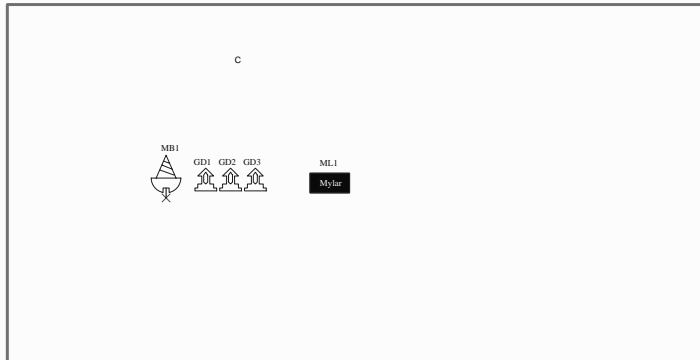
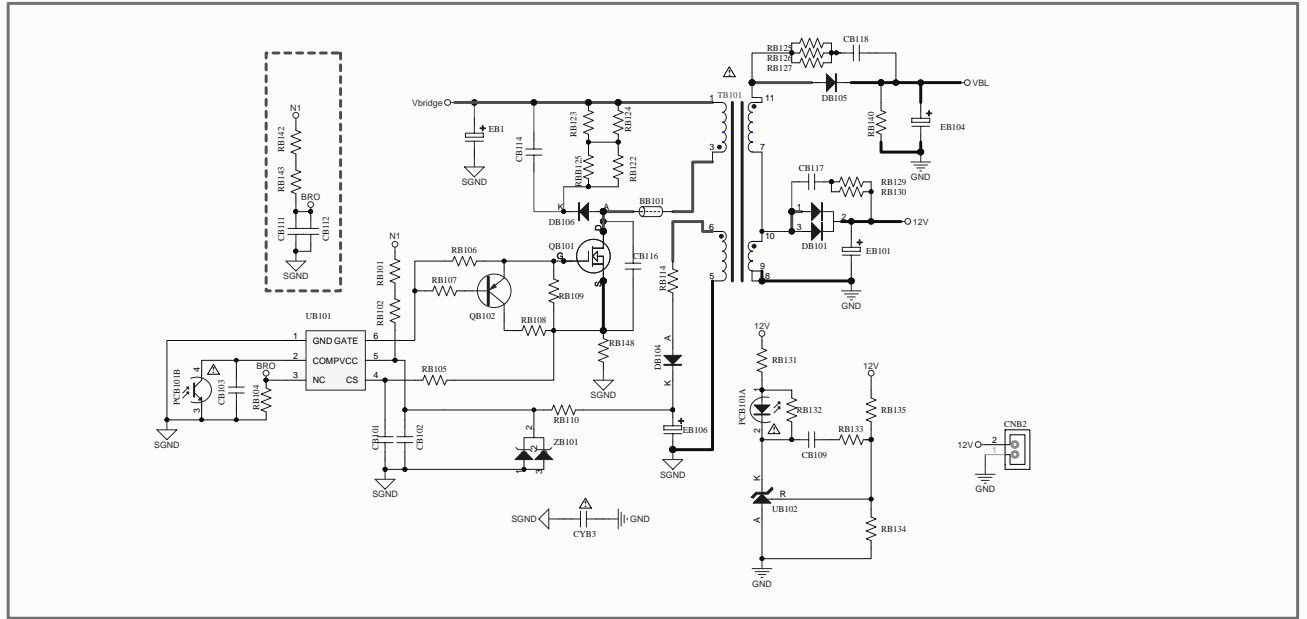
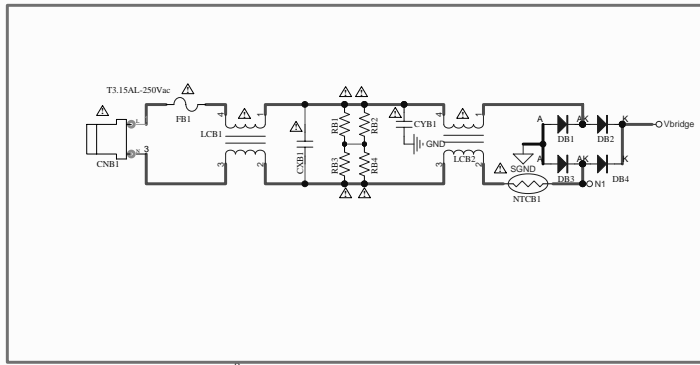


470pF-0402-X7R±10%-50V
4700pF-1206-X7R±10%-1000V
1000pF-1206-X7R±20%-2000V
4700pF-1206-X7R±10%-1000V
1000pF-1206-X7R±20%-2000V
NC/4700pF-1206-X7R±10%-1000V
NC/4700pF-1206-X7R±10%-1000V
NC/22.3×17.3×6-LHD



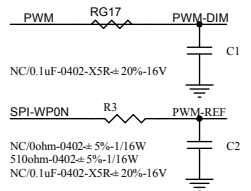
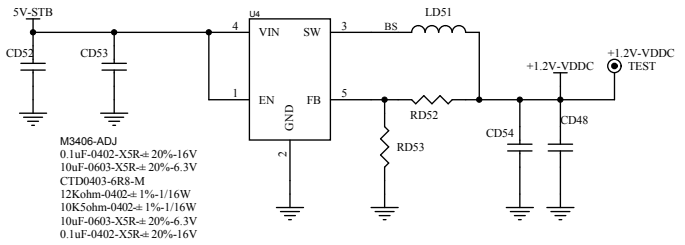
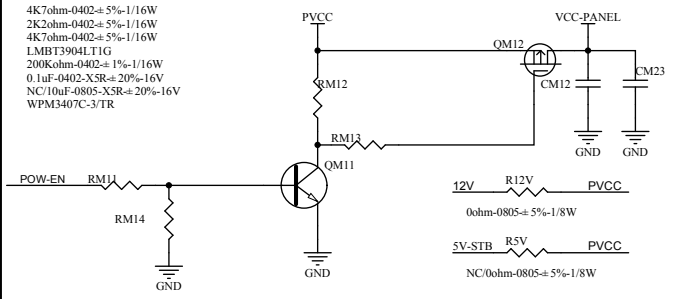
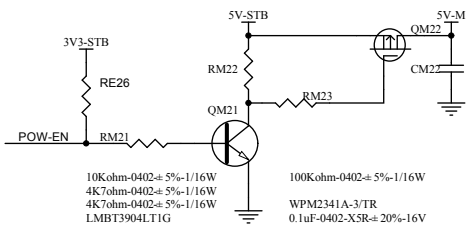
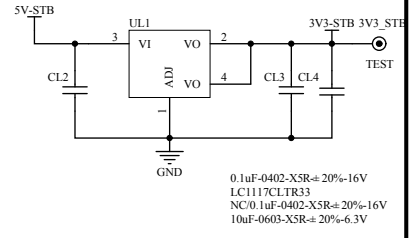
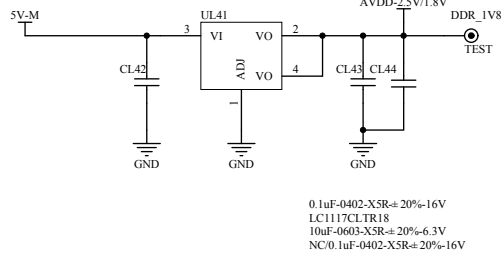
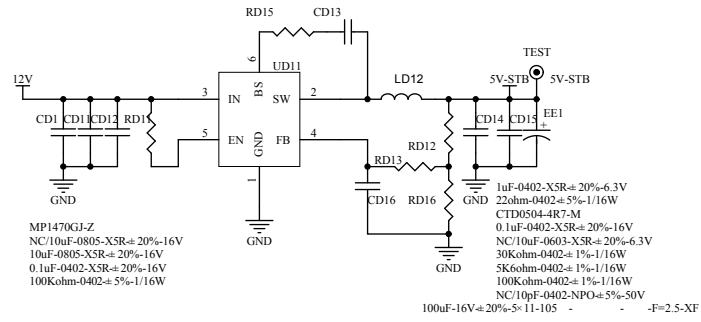
| | | | | |
|-------|---|-----|----|---|
| 工程师 | 拟制 | 陈伟东 | 日期 | 2013.12.13 |
| | 审核 | | | |
| 类型描述 | 原理图封装 | | | 备注 |
| 板卡型号 |  TP.VST59S.PB813 PCB_NAME | | | |
| 板卡周期号 |  B13505 PCB_TIME | | | 板卡周期号 |
| MARK点 |  M1 MARK | | |  M2 MARK |
| 定位孔 |  | | | |
| 标识电阻 |  | | | NC/0ohm-0402±5%-1/16W NC/0ohm-0402±5%-1/16W 0ohm-0402±5%-1/16W NC/0ohm-0402±5%-1/16W |
| 散热片 |  HS1 18.8×13.8×6-本色-THD | | | |

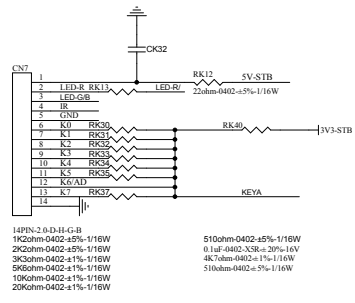
TP.VST59.PB818



| | | | |
|-------------|-----------------------|----------|------------|
| Model Name: | TP.VST59.PB818.D14016 | VERSION: | V1.0 |
| DRAWN: | WANGJIAN | DATE: | 2014-04-23 |
| CHKD: | | DATE: | |

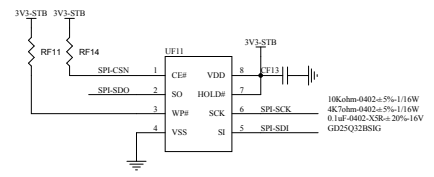




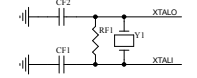


14PIN-2.0-D-11-G-B
 1K2ohm-0402±5%-1/16W
 2K2ohm-0402±5%-1/16W
 3K2ohm-0402±1%-1/16W
 5K6ohm-0402±1%-1/16W
 10Kohm-0402±1%-1/16W
 20Kohm-0402±1%-1/16W

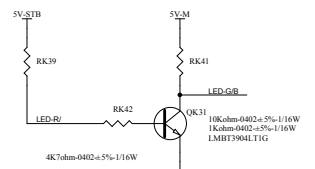
510ohm-0402±5%-1/16W
 0.1uF-0402-XSR±20%-16V
 4K7ohm-0402±1%-1/16W
 510ohm-0402±5%-1/16W



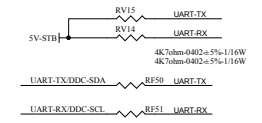
10Kohm-0402±5%-1/16W
 4K7ohm-0402±5%-1/16W
 0.1uF-0402-XSR±20%-16V
 GD25Q128HG



24MHz±20PPM-20PF-1C-496-TKD
 1Mohm-0402±5%-1/16W
 33pf-0402-NPO±5%-50V
 33pf-0402-NPO±5%-50V



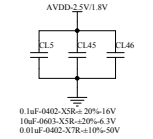
4K7ohm-0402±5%-1/16W
 1Kohm-0402±5%-1/16W
 1Kohm-0402±5%-1/16W
 1.5MΩ3904LTIG



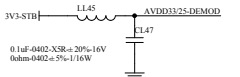
4K7ohm-0402±5%-1/16W
 4K7ohm-0402±5%-1/16W
 100ohm-0402±5%-1/16W
 100ohm-0402±5%-1/16W

TSUMV59XU-Z1

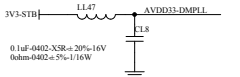
| | | | |
|-----|-----------|-----|-----------|
| 1 | AVDD_33 | 1 | AVDD_33 |
| 2 | AVDD_1V8 | 2 | AVDD_1V8 |
| 3 | VGA-HIS | 3 | VGA-HIS |
| 4 | BRVNC0 | 4 | BRVNC0 |
| 5 | BMOP | 5 | BMOP |
| 6 | VGA-SM0 | 6 | VGA-SM0 |
| 7 | SOGIN0 | 7 | SOGIN0 |
| 8 | GEN0P | 8 | GEN0P |
| 9 | VGA-RIN | 9 | VGA-RIN |
| 10 | RVNP | 10 | RVNP |
| 11 | VSYNCO | 11 | VSYNCO |
| 12 | AVDD_25 | 12 | AVDD_25 |
| 13 | BSNC-B-IN | 13 | BSNC-B-IN |
| 14 | BSNP | 14 | BSNP |
| 15 | SOGIN1 | 15 | SOGIN1 |
| 16 | GEN1P | 16 | GEN1P |
| 17 | VGA-RIN | 17 | VGA-RIN |
| 18 | RVNP | 18 | RVNP |
| 19 | VSYNCO | 19 | VSYNCO |
| 20 | AVDD_25 | 20 | AVDD_25 |
| 21 | BSNC-B-IN | 21 | BSNC-B-IN |
| 22 | BSNP | 22 | BSNP |
| 23 | SOGIN1 | 23 | SOGIN1 |
| 24 | GEN1P | 24 | GEN1P |
| 25 | VGA-RIN | 25 | VGA-RIN |
| 26 | RVNP | 26 | RVNP |
| 27 | VSYNCO | 27 | VSYNCO |
| 28 | AVDD_25 | 28 | AVDD_25 |
| 29 | BSNC-B-IN | 29 | BSNC-B-IN |
| 30 | BSNP | 30 | BSNP |
| 31 | SOGIN1 | 31 | SOGIN1 |
| 32 | GEN1P | 32 | GEN1P |
| 33 | VGA-RIN | 33 | VGA-RIN |
| 34 | RVNP | 34 | RVNP |
| 35 | VSYNCO | 35 | VSYNCO |
| 36 | AVDD_25 | 36 | AVDD_25 |
| 37 | BSNC-B-IN | 37 | BSNC-B-IN |
| 38 | BSNP | 38 | BSNP |
| 39 | SOGIN1 | 39 | SOGIN1 |
| 40 | GEN1P | 40 | GEN1P |
| 41 | VGA-RIN | 41 | VGA-RIN |
| 42 | RVNP | 42 | RVNP |
| 43 | VSYNCO | 43 | VSYNCO |
| 44 | AVDD_25 | 44 | AVDD_25 |
| 45 | BSNC-B-IN | 45 | BSNC-B-IN |
| 46 | BSNP | 46 | BSNP |
| 47 | SOGIN1 | 47 | SOGIN1 |
| 48 | GEN1P | 48 | GEN1P |
| 49 | VGA-RIN | 49 | VGA-RIN |
| 50 | RVNP | 50 | RVNP |
| 51 | VSYNCO | 51 | VSYNCO |
| 52 | AVDD_25 | 52 | AVDD_25 |
| 53 | BSNC-B-IN | 53 | BSNC-B-IN |
| 54 | BSNP | 54 | BSNP |
| 55 | SOGIN1 | 55 | SOGIN1 |
| 56 | GEN1P | 56 | GEN1P |
| 57 | VGA-RIN | 57 | VGA-RIN |
| 58 | RVNP | 58 | RVNP |
| 59 | VSYNCO | 59 | VSYNCO |
| 60 | AVDD_25 | 60 | AVDD_25 |
| 61 | BSNC-B-IN | 61 | BSNC-B-IN |
| 62 | BSNP | 62 | BSNP |
| 63 | SOGIN1 | 63 | SOGIN1 |
| 64 | GEN1P | 64 | GEN1P |
| 65 | VGA-RIN | 65 | VGA-RIN |
| 66 | RVNP | 66 | RVNP |
| 67 | VSYNCO | 67 | VSYNCO |
| 68 | AVDD_25 | 68 | AVDD_25 |
| 69 | BSNC-B-IN | 69 | BSNC-B-IN |
| 70 | BSNP | 70 | BSNP |
| 71 | SOGIN1 | 71 | SOGIN1 |
| 72 | GEN1P | 72 | GEN1P |
| 73 | VGA-RIN | 73 | VGA-RIN |
| 74 | RVNP | 74 | RVNP |
| 75 | VSYNCO | 75 | VSYNCO |
| 76 | AVDD_25 | 76 | AVDD_25 |
| 77 | BSNC-B-IN | 77 | BSNC-B-IN |
| 78 | BSNP | 78 | BSNP |
| 79 | SOGIN1 | 79 | SOGIN1 |
| 80 | GEN1P | 80 | GEN1P |
| 81 | VGA-RIN | 81 | VGA-RIN |
| 82 | RVNP | 82 | RVNP |
| 83 | VSYNCO | 83 | VSYNCO |
| 84 | AVDD_25 | 84 | AVDD_25 |
| 85 | BSNC-B-IN | 85 | BSNC-B-IN |
| 86 | BSNP | 86 | BSNP |
| 87 | SOGIN1 | 87 | SOGIN1 |
| 88 | GEN1P | 88 | GEN1P |
| 89 | VGA-RIN | 89 | VGA-RIN |
| 90 | RVNP | 90 | RVNP |
| 91 | VSYNCO | 91 | VSYNCO |
| 92 | AVDD_25 | 92 | AVDD_25 |
| 93 | BSNC-B-IN | 93 | BSNC-B-IN |
| 94 | BSNP | 94 | BSNP |
| 95 | SOGIN1 | 95 | SOGIN1 |
| 96 | GEN1P | 96 | GEN1P |
| 97 | VGA-RIN | 97 | VGA-RIN |
| 98 | RVNP | 98 | RVNP |
| 99 | VSYNCO | 99 | VSYNCO |
| 100 | AVDD_25 | 100 | AVDD_25 |



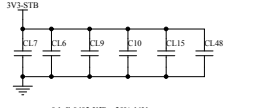
0.1uF-0402-XSR±20%-16V
 1uF-0402-XSR±20%-3V
 0.01uF-0402-XTR±10%-50V



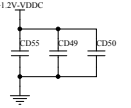
0.1uF-0402-XSR±20%-16V
 0ohm-0402±5%-1/16W



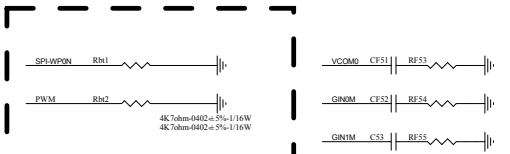
0.1uF-0402-XSR±20%-16V
 0ohm-0402±5%-1/16W



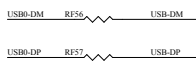
0.1uF-0402-XSR±20%-16V
 0.1uF-0402-XSR±20%-16V
 0.1uF-0402-XSR±20%-16V
 0.1uF-0402-XSR±20%-16V
 0.1uF-0402-XSR±20%-16V



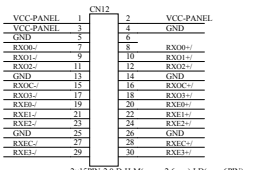
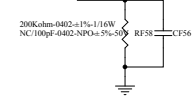
1uF-0402-XSR±20%-6.3V
 1uF-0402-XSR±20%-6.3V
 1uF-0402-XSR±20%-6.3V



0.047uF-0402-XTR±10%-16V
 68ohm-0402±5%-1/16W
 0.047uF-0402-XTR±10%-16V
 68ohm-0402±5%-1/16W
 0.047uF-0402-XTR±10%-16V
 68ohm-0402±5%-1/16W
 0.047uF-0402-XTR±10%-16V
 68ohm-0402±5%-1/16W



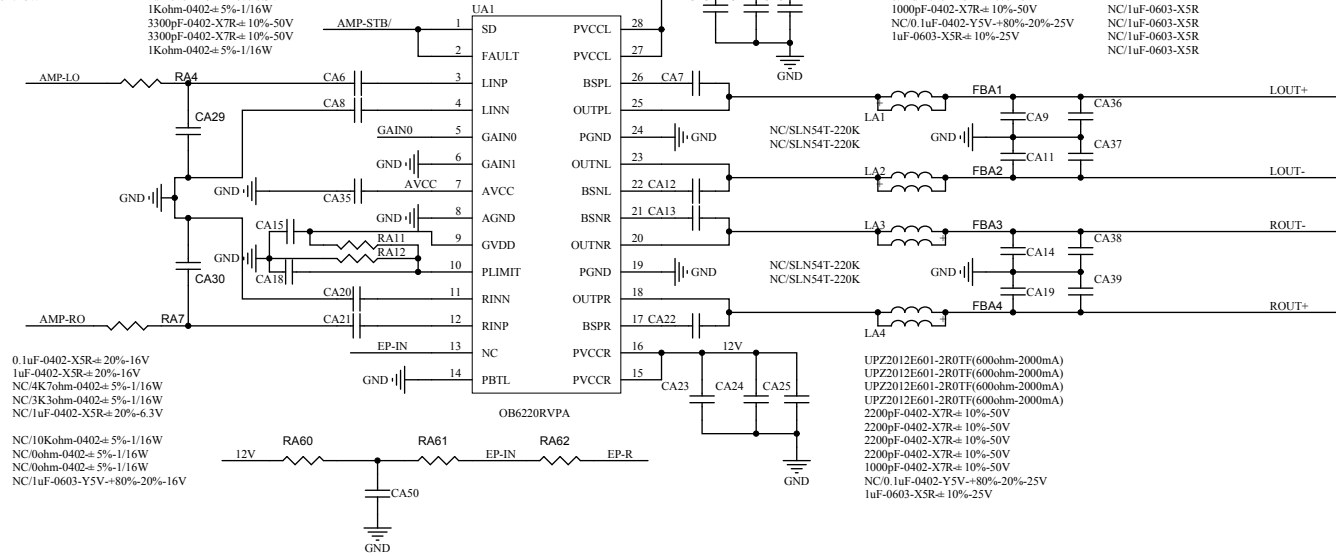
5R1ohm-0402±5%-1/16W
 5R1ohm-0402±5%-1/16W
 1uF-0402-XSR±20%-16V



2-157PN-2.0-D-11-AM (-2.6mm) L1DX (0PIN)

12V — RA15 — GAIN0
 GND — RA3 — GAIN0
 NC/100Kohm-0402±5%-1/16W
 NC/0ohm-0402±5%-1/16W

1uF-0402-X5R±20%-6.3V
 1uF-0402-X5R±20%-6.3V
 1uF-0402-X5R±20%-6.3V
 1uF-0402-X5R±20%-6.3V
 1Kohm-0402±5%-1/16W
 3300pF-0402-X7R±10%-50V
 3300pF-0402-X7R±10%-50V
 1Kohm-0402±5%-1/16W

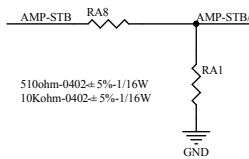


0.1uF-0402-X5R±20%-16V
 1uF-0402-X5R±20%-16V
 NC/4K7ohm-0402±5%-1/16W
 NC/3K3ohm-0402±5%-1/16W
 NC/1uF-0402-X5R±20%-6.3V
 NC/10Kohm-0402±5%-1/16W
 NC/0ohm-0402±5%-1/16W
 NC/0ohm-0402±5%-1/16W
 NC/1uF-0603-Y5V±80%-20%-16V

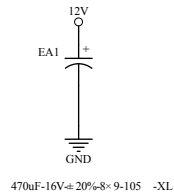
0.22uF-0402-X5R±10%-16V
 0.22uF-0402-X5R±10%-16V
 0.22uF-0402-X5R±10%-16V
 0.22uF-0402-X5R±10%-16V
 1000pF-0402-X7R±10%-50V
 NC/0.1uF-0402-Y5V±80%-20%-25V
 1uF-0603-X5R±10%-25V

NC/1uF-0603-X5R
 NC/1uF-0603-X5R
 NC/1uF-0603-X5R

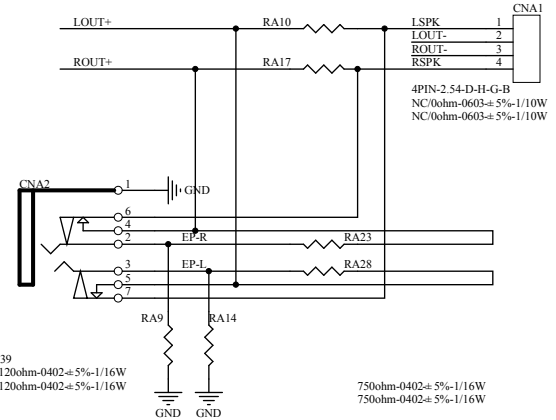
UPZ2012E601-2R0TF(600ohm-2000mA)
 UPZ2012E601-2R0TF(600ohm-2000mA)
 UPZ2012E601-2R0TF(600ohm-2000mA)
 UPZ2012E601-2R0TF(600ohm-2000mA)
 2200pF-0402-X7R±10%-50V
 2200pF-0402-X7R±10%-50V
 2200pF-0402-X7R±10%-50V
 2200pF-0402-X7R±10%-50V
 1000pF-0402-X7R±10%-50V
 NC/0.1uF-0402-Y5V±80%-20%-25V
 1uF-0603-X5R±10%-25V



510ohm-0402±5%-1/16W
 10Kohm-0402±5%-1/16W

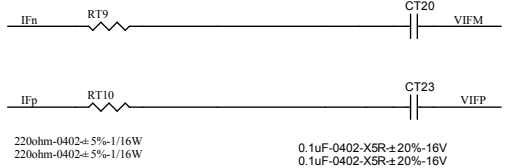


470uF-16V±20%-8×9-105 -XL

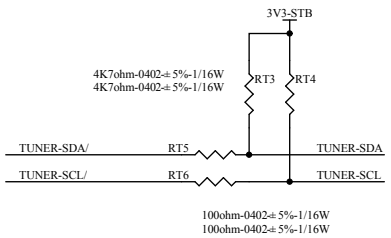


PJ-339
 NC/120ohm-0402±5%-1/16W
 NC/120ohm-0402±5%-1/16W

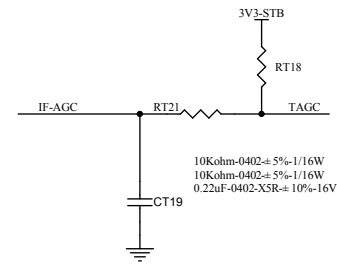
750ohm-0402±5%-1/16W
 750ohm-0402±5%-1/16W



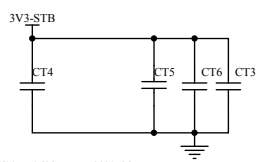
220ohm-0402±5%-1/16W
 220ohm-0402±5%-1/16W
 0.1uF-0402-XSR±20%-16V
 0.1uF-0402-XSR±20%-16V



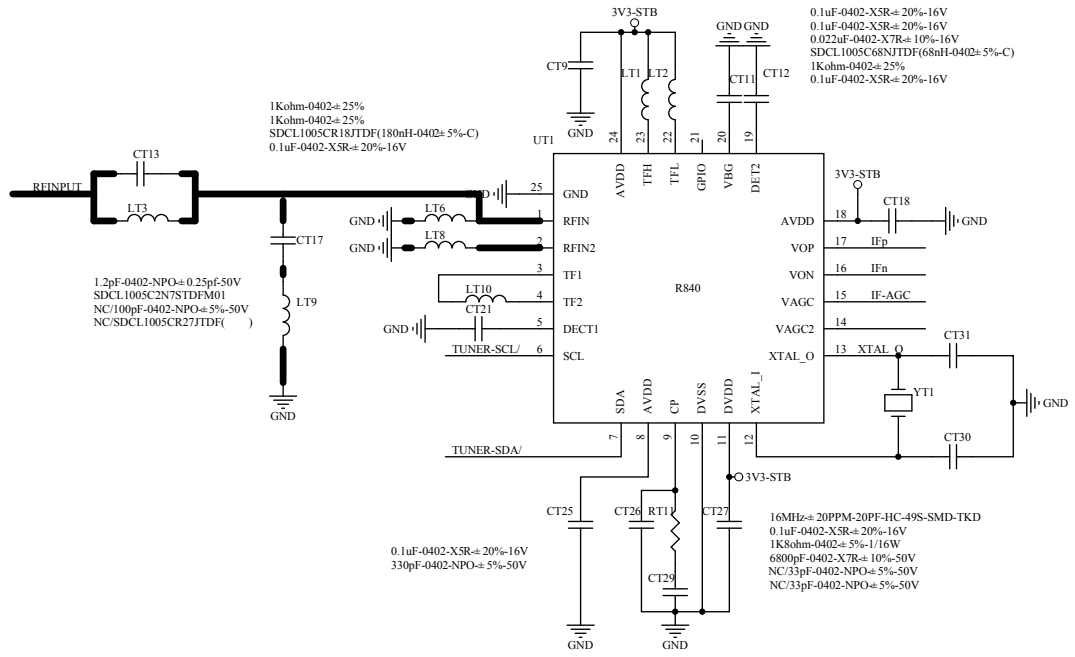
4K7ohm-0402±5%-1/16W
 4K7ohm-0402±5%-1/16W
 100ohm-0402±5%-1/16W
 100ohm-0402±5%-1/16W



10Kohm-0402±5%-1/16W
 10Kohm-0402±5%-1/16W
 0.22uF-0402-XSR±10%-16V



NC/10uF-0603-XSR±20%-6.3V
 0.1uF-0402-XSR±20%-16V
 10uF-0603-XSR±20%-6.3V
 NC/10uF-0603-XSR±20%-6.3V



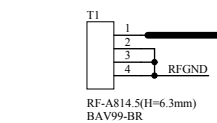
1.2pF-0402-NPO±0.25pF-50V
 SDCL1005C2N7STD01
 NC/100pF-0402-NPO±5%-50V
 NC/SDCL1005CR27JTD()

1Kohm-0402±25%
 1Kohm-0402±25%
 SDCL1005CR18JTD(180nH-0402±5%-C)
 0.1uF-0402-XSR±20%-16V

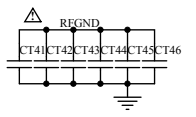
0.1uF-0402-XSR±20%-16V
 0.1uF-0402-XSR±20%-16V
 0.022uF-0402-X7R±10%-16V
 SDCL1005C68NJTD(68nH-0402±5%-C)
 1Kohm-0402±25%
 0.1uF-0402-XSR±20%-16V

0.1uF-0402-XSR±20%-16V
 330pF-0402-NPO±5%-50V

16MHz±20PPM-20PF-HC-49S-SMD-TKD
 0.1uF-0402-XSR±20%-16V
 1K8ohm-0402±5%-1/16W
 6800pF-0402-X7R±10%-50V
 NC/33pF-0402-NPO±5%-50V
 NC/33pF-0402-NPO±5%-50V



470pF-0402-X7R±10%-50V
 4700pF-1206-X7R±10%-1000V
 1000pF-1206-X7R±20%-2000V
 4700pF-1206-X7R±10%-1000V
 1000pF-1206-X7R±20%-2000V
 NC/1000pF-1206-X7R±20%-2000V
 NC/1000pF-1206-X7R±20%-2000V
 NC/SDCL1005CR27JTD()



开案规格:

VST59S with TSUMV59S

全功能版本: 名称 料号

规格

公板版本: 名称 料号

规格

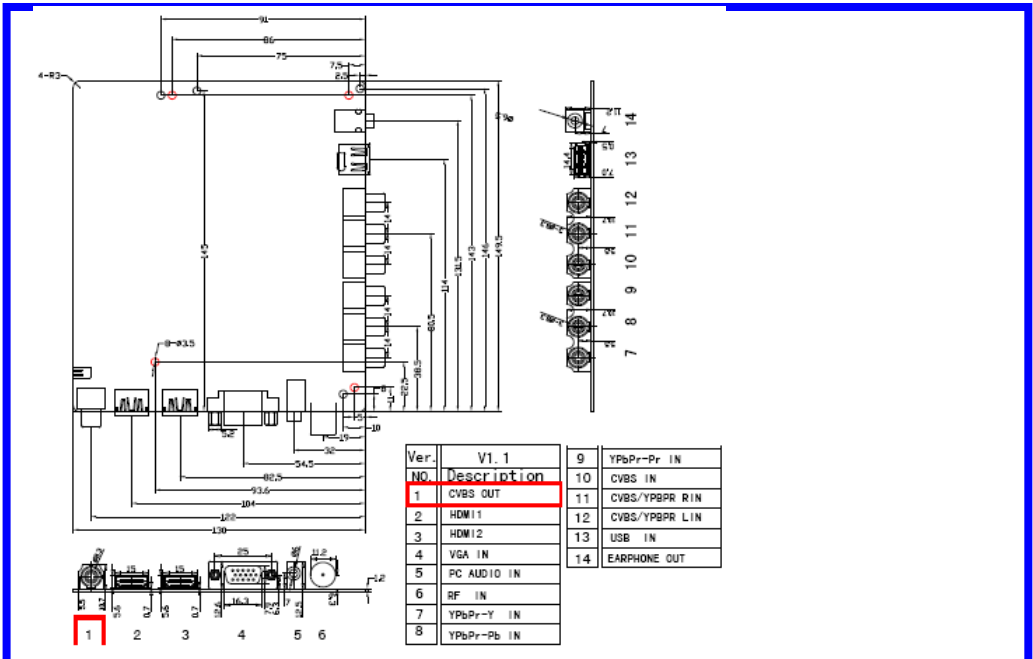
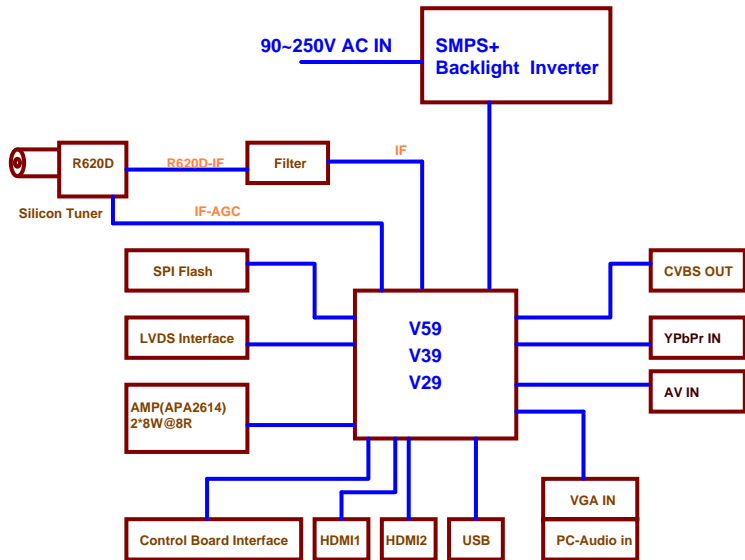
版本更新记录

| 版本 | 更新记录 | 修订 | 审核 | 日期 |
|----------------------|---|----------|----|------------|
| P60-X9 V6.1 20130117 | 在P60-x9 v6.0-B 基础上修改电源部分为48V+12V,板卡这边删除19V to12 DC/DC 并增加12V switch及修改功放供电及Mute电路, 将之功放供电电容由一个改为两个。 | suncheng | | 2013.01.17 |
| | | | | |
| | | | | |
| | | | | |

Power Config:



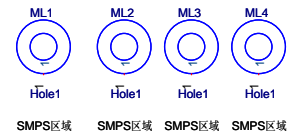
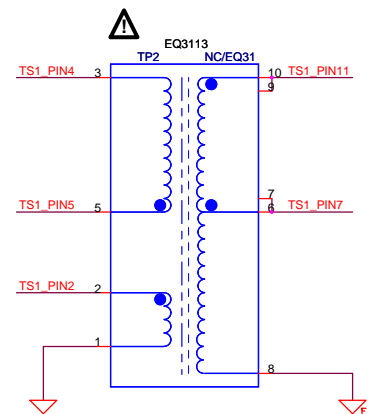
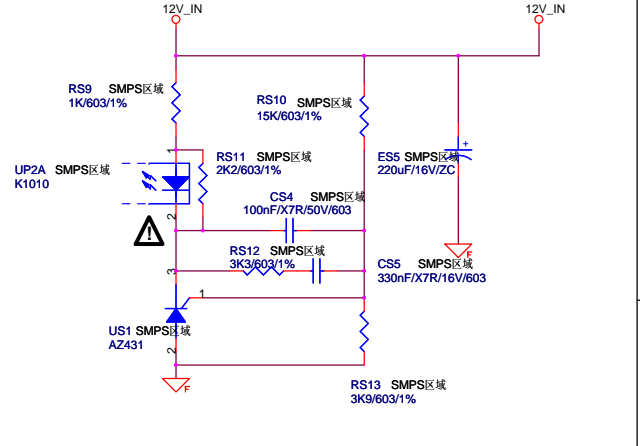
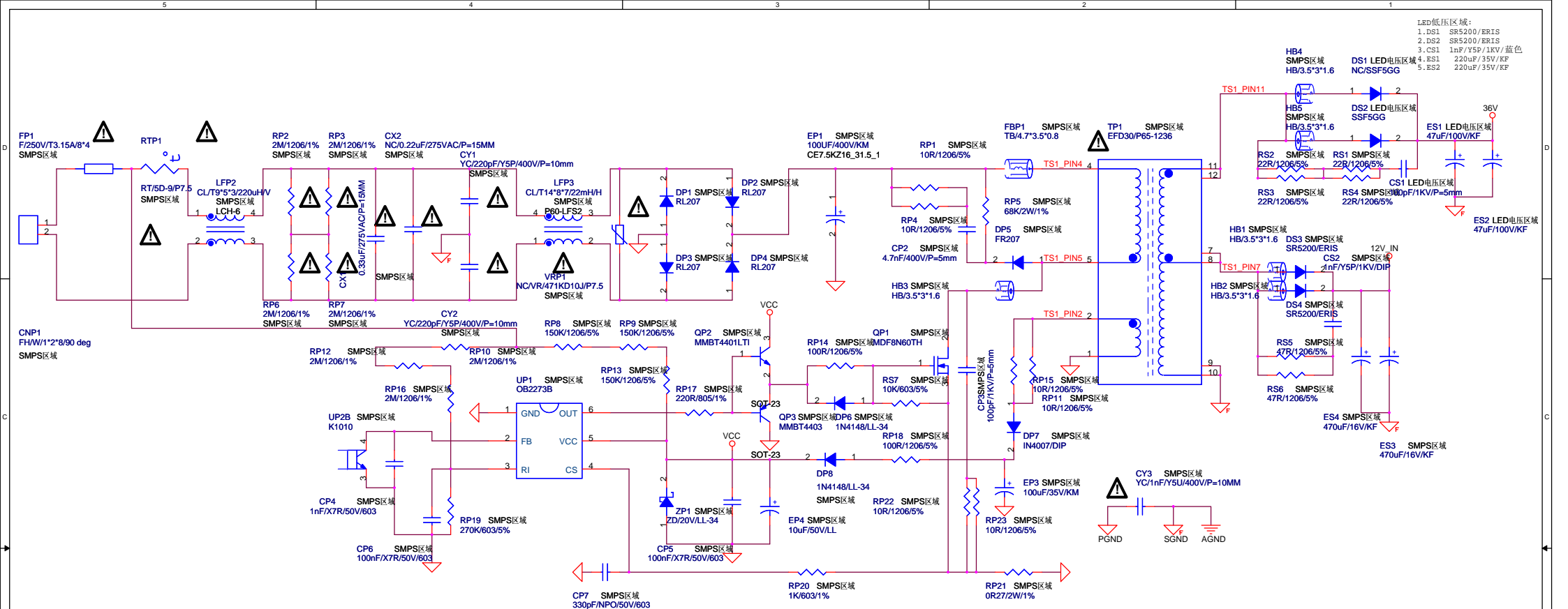
Block diagram



GPIO CONFIG

| Pin Number | Pin Name | Net Name | Functional Description | Control State | Remarks |
|------------|---------------|-----------------|--|---|-----------------------------------|
| 70 | INT | PWR-ON/OFF | 电源待机控制 | H:Power ON L:Standby | 同公板一样 |
| 44 | GPIO2 | PANEL_ON/OFF | 屏供电控制 | H: ON L:OFF | 同公板一样 |
| 71 | TCON0 | VBL_CTRL | 屏背光开关控制 | H:OFF L:ON | 同公板一样 |
| 79 | PWM0 | BRI_ADJ-PWM0 | 屏背光调节控制脚 | 有两个方式: 1.PWM 调光 2.DC调光 | 同公板一样 |
| 86 | IRIN | IRIN | 遥控信号输入 | | 同公板一样 |
| 84 | SAR0 | KEY0-SAR0 | AD按键输入 | 一线7键式AD按键 | 同公板一样 |
| 85 | URP_TEST/SAR1 | SAR1 | LED控制口 | H:LED RED L:LED Green | 这个口同时还控制功放MUTE H:LED RED 同时功放MUTE |
| 30/31 | AUOUTL/R0 | AMP-AUOUTR0 | 功放Audio 输入 | | |
| 32/33 | AUOUTL/R1 | ADUO_OUT_L | AV out Audio 输出 | | |
| 19 | CVBS0 | AV1-Vin | AV1 CVBS 输入 | | |
| 18 | CVBS1 | AV2-Vin | AV2 CVBS 输入 | | |
| 21 | CVBSOUT | CVBS_OUT | AV OUT CVBS 输出 | | |
| 26/27 | AUL/R4 | AV1-L/Rin | AV1 Audio R/L 输入 | | |
| 28/29 | AUL/R5 | AV2-L/Rin | AV2 Audio R/L 输入 | | |
| 23/24 | AUL/R0 | VGA_L/R | VGA Audio R/L 输入 | | |
| 6 | GIN0P | RGB0_Y+ | VGA Y信号输入 | | |
| 5 | SOGIN0 | RGB0_Y-SOG | VGA 同步信号输入 (兼容老式机器) | | |
| 4 | BIN0P | RGB0_Pb+ | VGA Pb信号输入 | | |
| 8 | RIN0P | RGB0_Pr+ | VGA Pr信号输入 | | |
| 9 | VSYNC0 | VGA_VS | VGA 场同步信号输入 | | |
| 3 | HSYNC0 | VGA_HS | VGA 行同步信号信号输入 | | |
| 11 | BIN1P | RGB2-HDTV_BIN | YPbPr接口 Pb信号输入 | | |
| 12 | SOGIN1 | RGB2-HDTV_SOGIN | YPbPr接口 同步信号输入 | | |
| 13 | GIN1P | RGB2-HDTV_GIN | YPbPr接口 Y信号输入 | | |
| 15 | RIN1P | RGB2-HDTV_RIN | YPbPr接口 Pr信号输入 | | |
| 16 | AVDD_33 | Scart_FB | 选TSUMV59芯片时, SCART FB信号输入 | 1-3V RGB 0-0.4V:CVBS | |
| 85 | URP_TEST/SAR1 | Scart_FS | 选TSUMV59芯片时, SCART FS信号输入 | 2.02-2.55V: 4:3 1.06-1.70V :16:9 0-0.43:无信号 (这是指scart信号经过10K和2.7K电阻分压后CPU检测的电压值) | |
| 49 | VLACKP | RXEC+/LED_CTR | 选TSUMV59芯片时, LVDS CLK 采用1推二的方式, 因此这个空出来作LED控制脚 | H:LED RED L:LED Green | 这个口同时还控制功放MUTE H:LED RED 同时功放MUTE |
| 50 | VLACKM | RXEC-/5V330_CTR | 选TSUMV59芯片时, LVDS CLK 采用1推二的方式, 当有scart功能时这个作5V330控制脚, | L:SCART H:YPbPr_IN | |

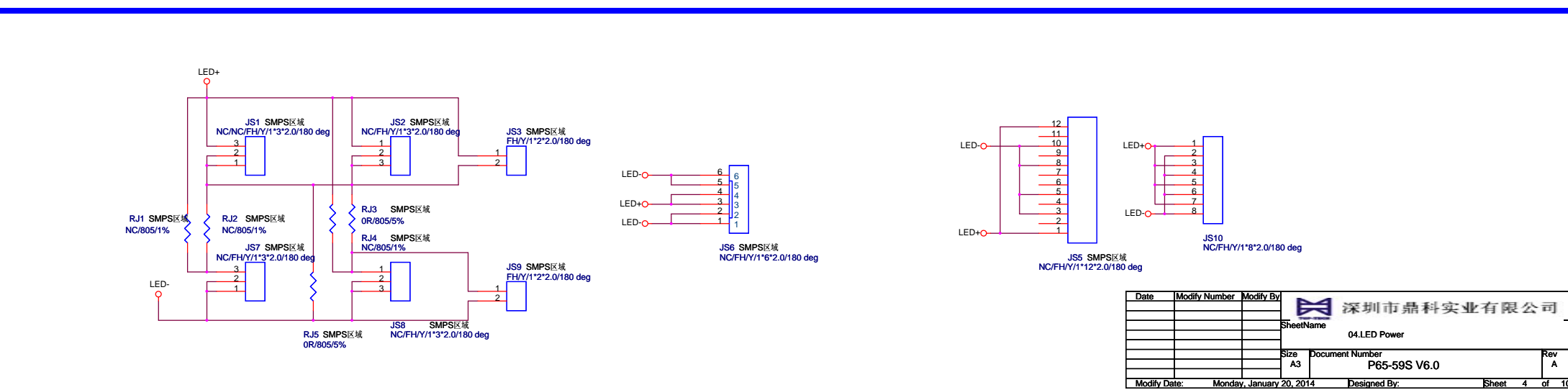
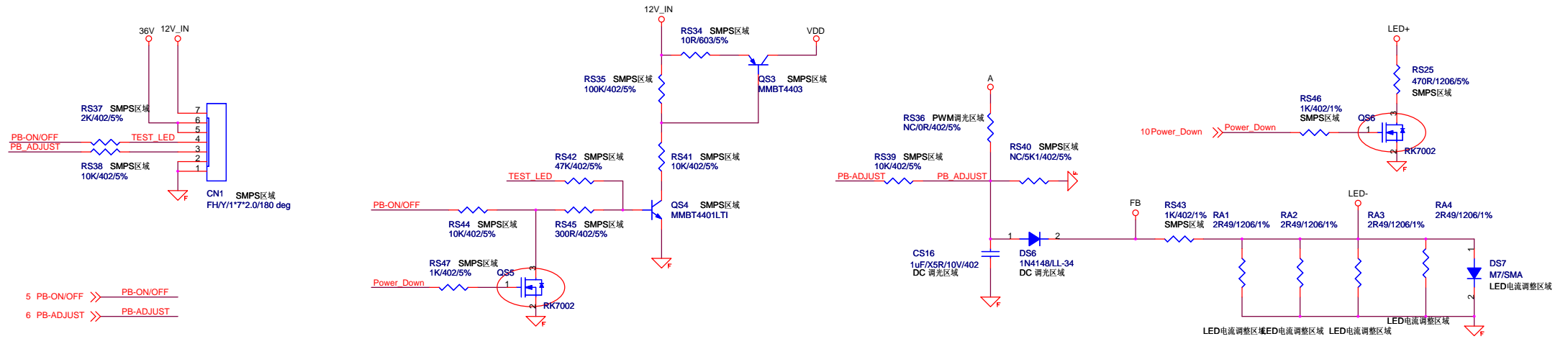
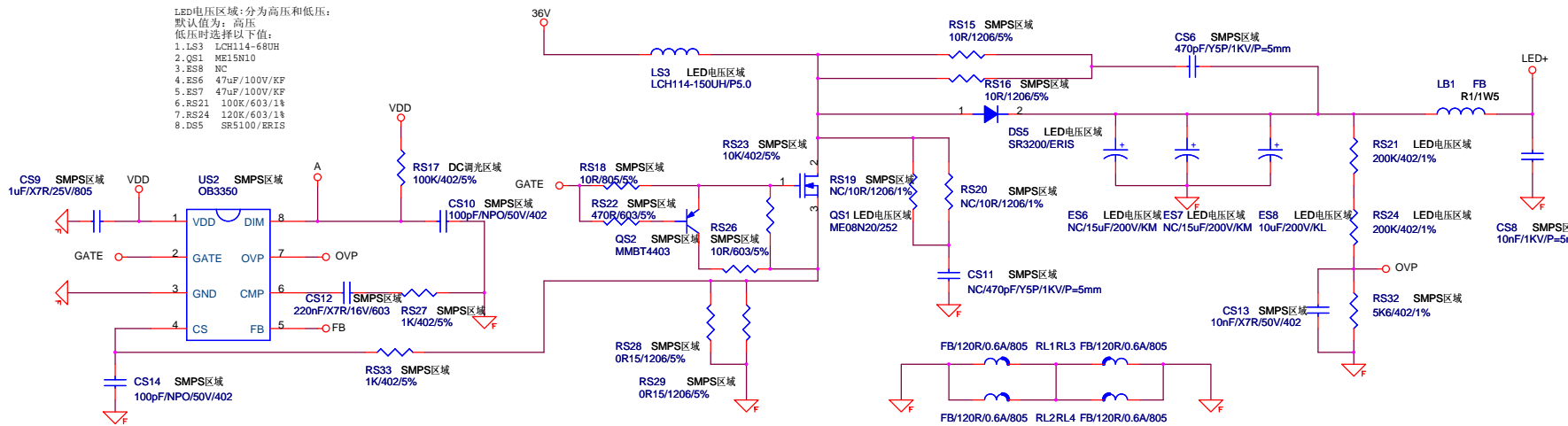
LED低压区域:
 1.DS1 SR5200/ERIS
 2.DS2 SR5200/ERIS
 3.CS1 1nF/Y5P/1KV/蓝色
 4.ES1 220uF/35V/KF
 5.ES2 220uF/35V/KF



| Date | Modify Number | Modify By |
|------|---------------|-----------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

深圳市鼎科实业有限公司
 SheetName: 03.SMPS
 Size: A3
 Document Number: P65-59S V6.0
 Rev: A
 Modify Date: Tuesday, August 20, 2013
 Designed By:
 Sheet 3 of 10

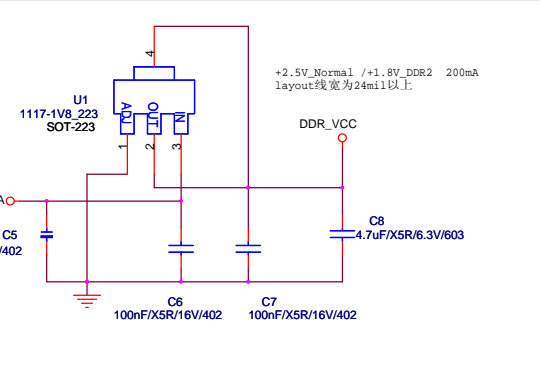
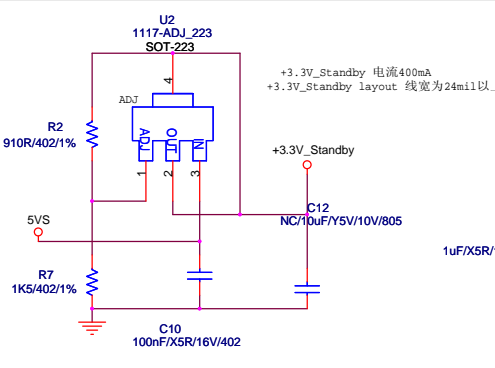
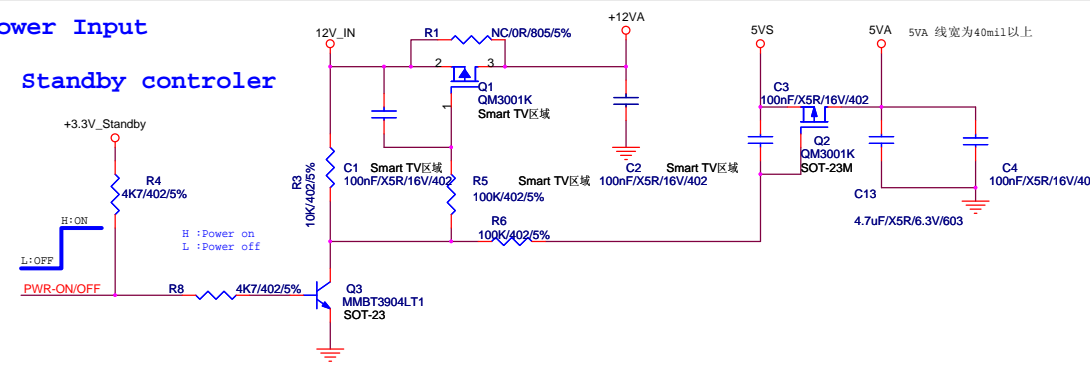
LED电压区域:分为高压和低压:
默认值为:高压
低压时选择以下值:
1.LS3 LCH114-68UH
2.QS1 ME15N10
3.E58 NC
4.E56 47uF/100V/KF
5.E57 47uF/100V/KF
6.RS21 100K/603/1%
7.RS24 120K/603/1%
8.DS5 SR5100/ERIS



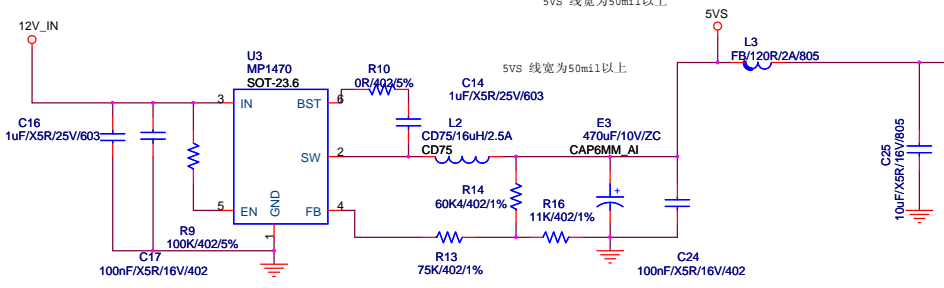
| Date | Modify Number | Modify By | 深圳市鼎科实业有限公司 | |
|--------------|--------------------------|--------------|---------------|-----------------|
| | | | SheetName | 04.LED Power |
| | | | Size | Document Number |
| | | | A3 | P65-59S V6.0 |
| | | | Rev | A |
| Modify Date: | Monday, January 20, 2014 | Designed By: | Sheet 4 of 10 | |

Power Input

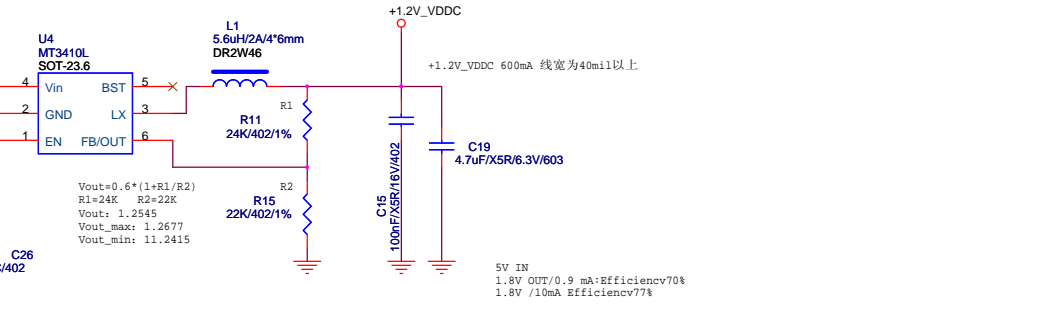
Standby controller



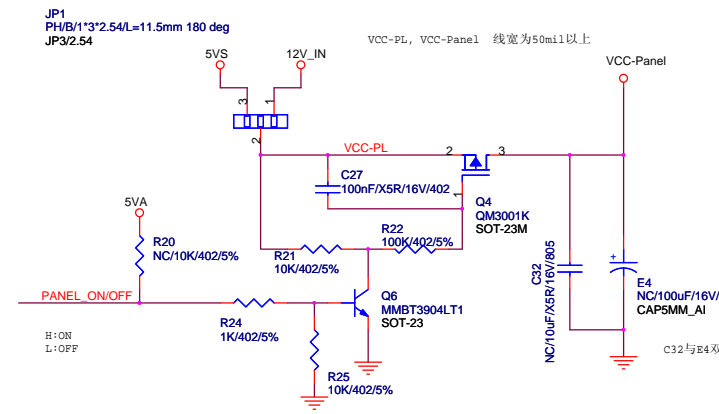
System Power



Core Power

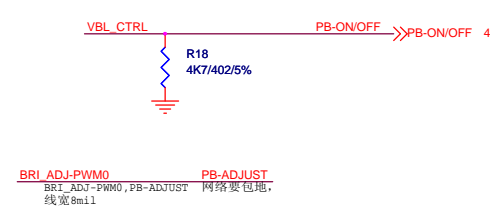


PANEL POWER

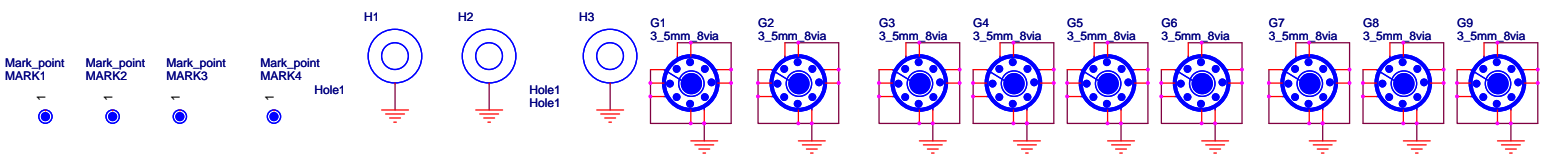


Inverter controller

| VBL_CTRL | Panel Backlight |
|----------|-----------------|
| H | OFF |
| L | ON |

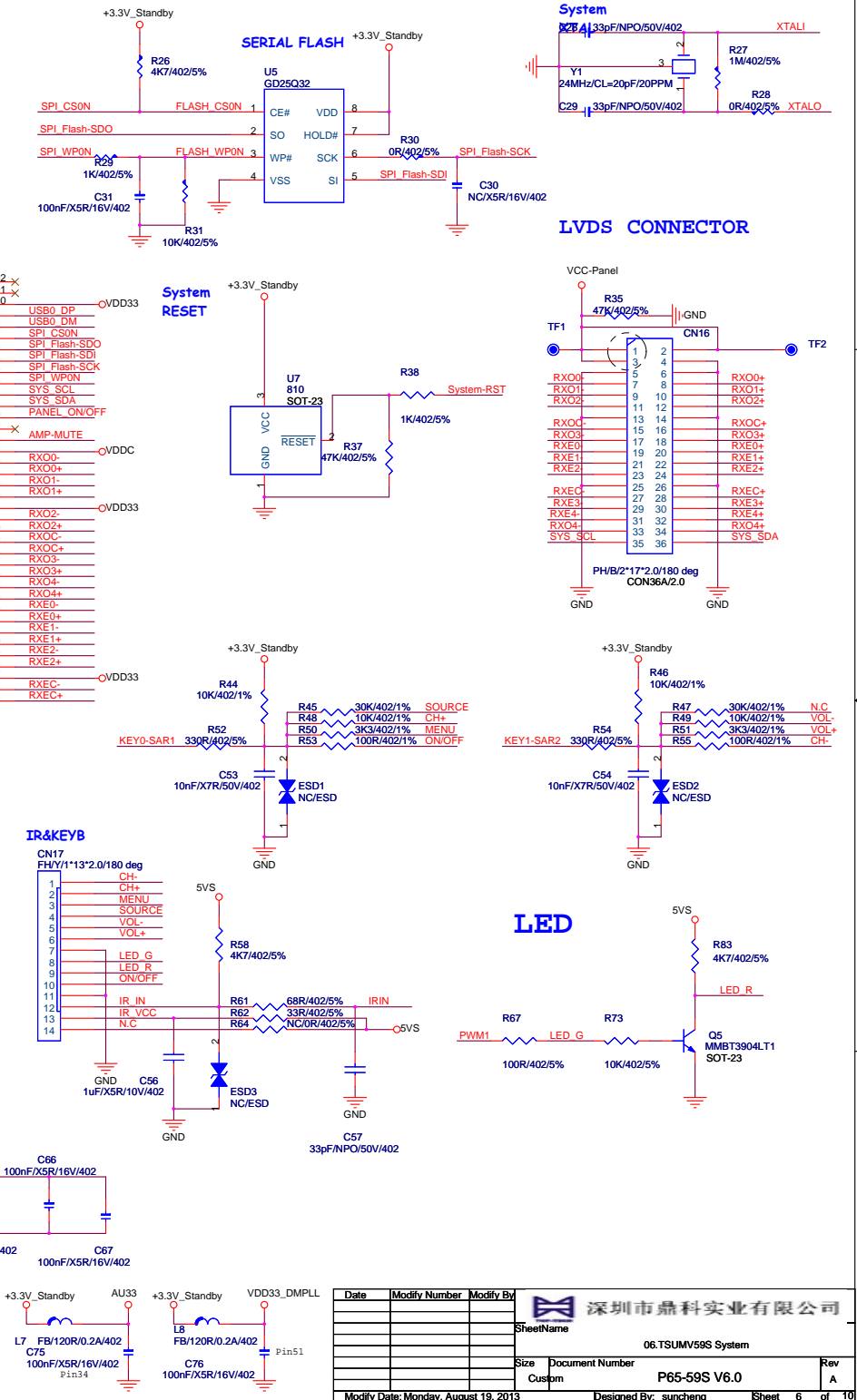
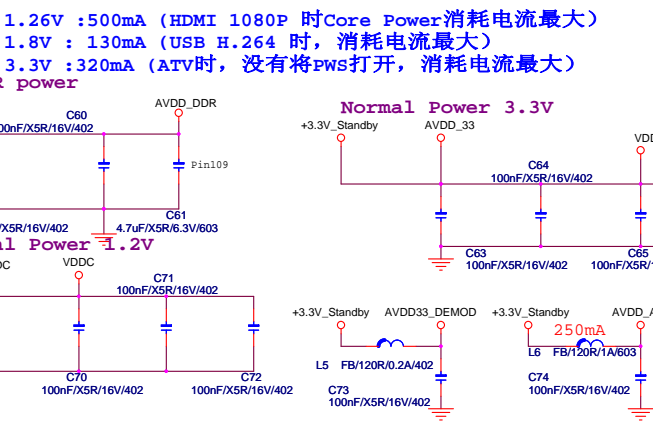
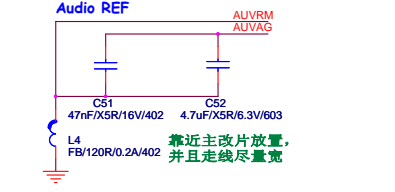
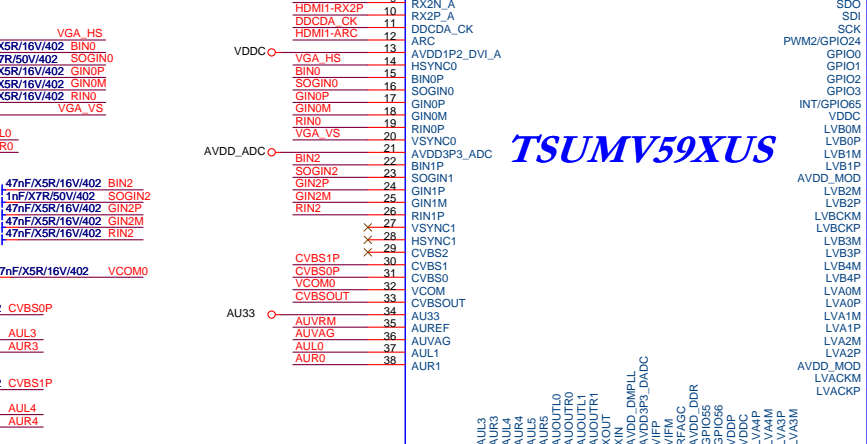
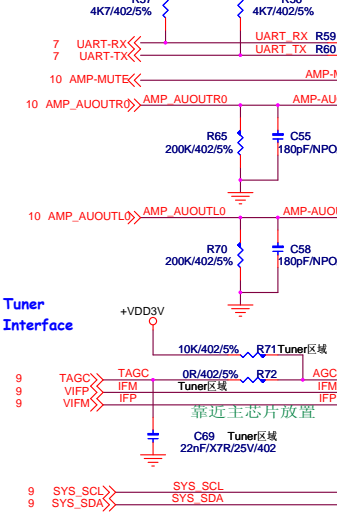
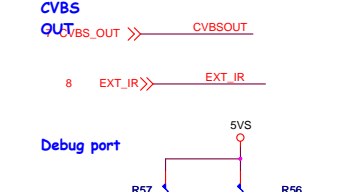
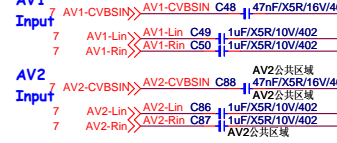
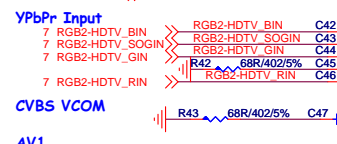
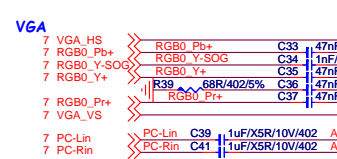
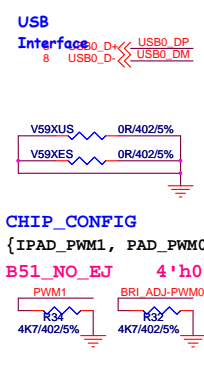
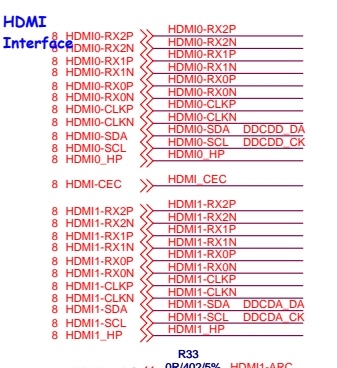


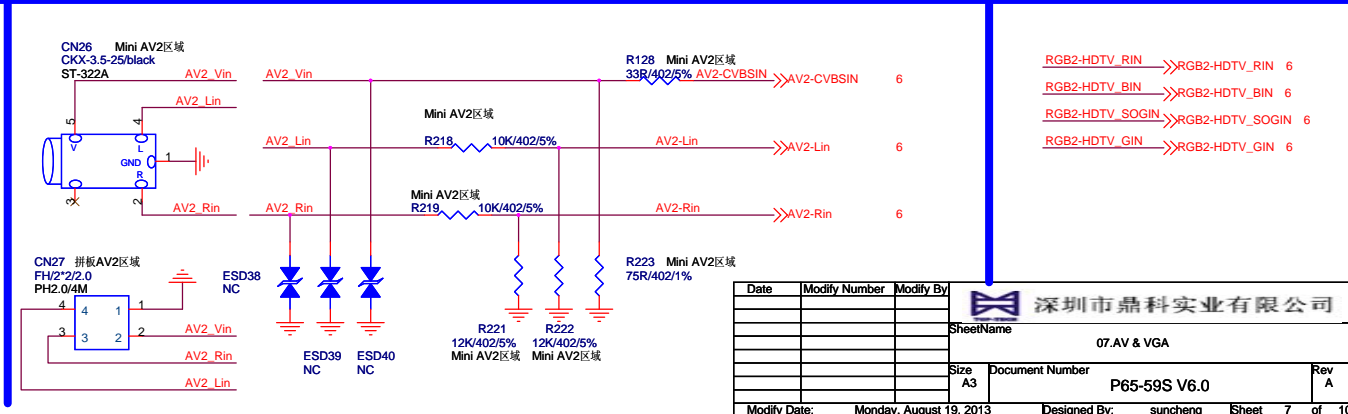
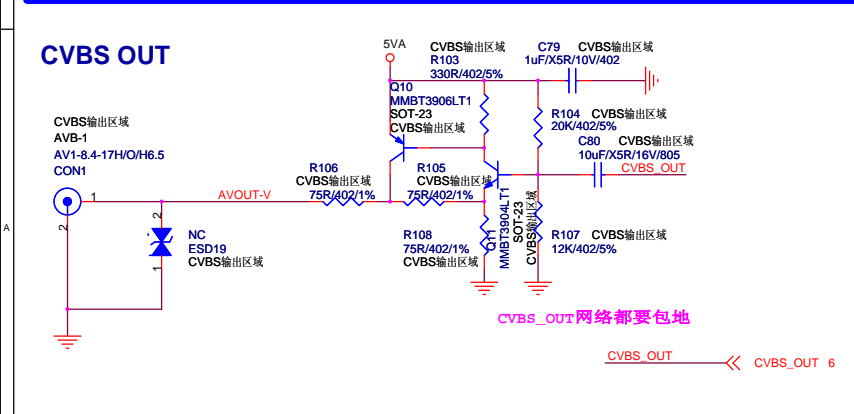
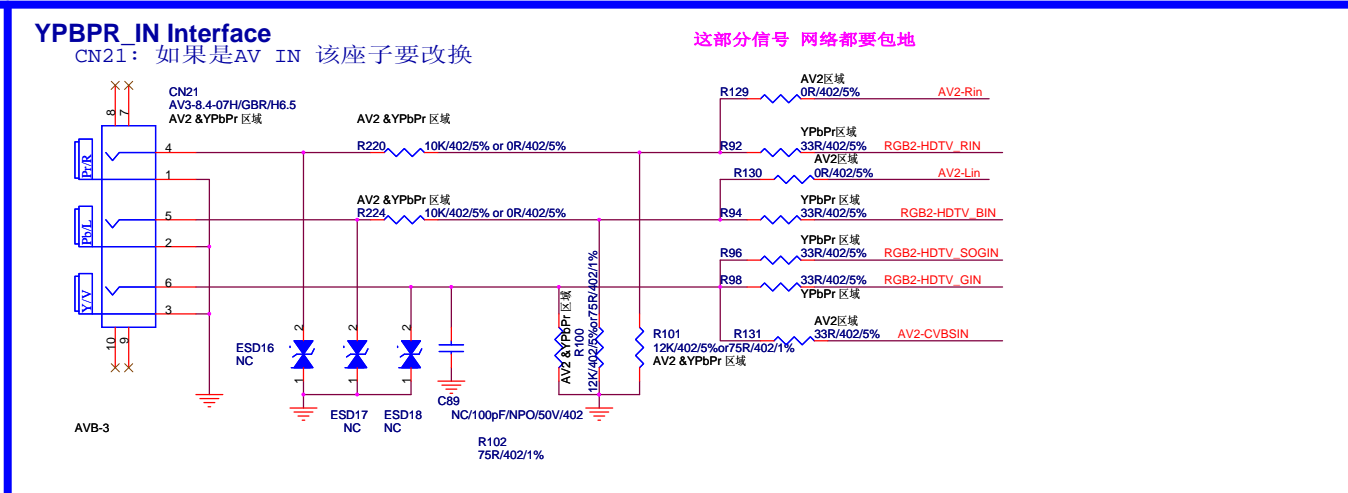
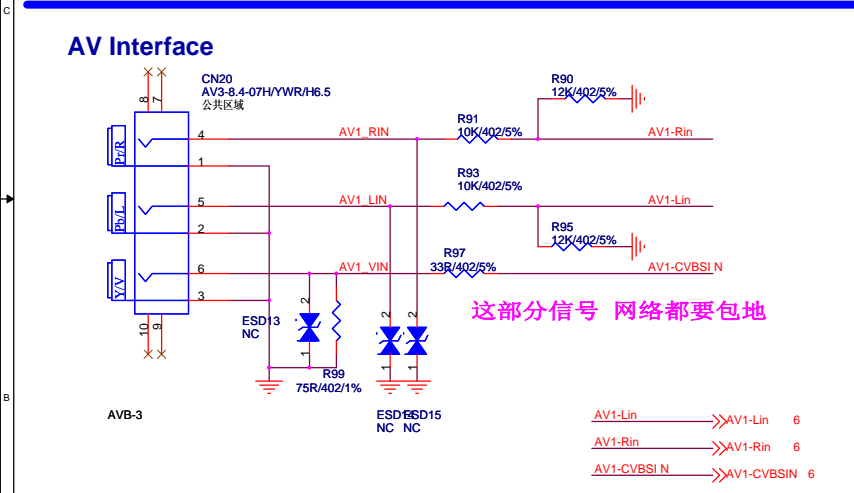
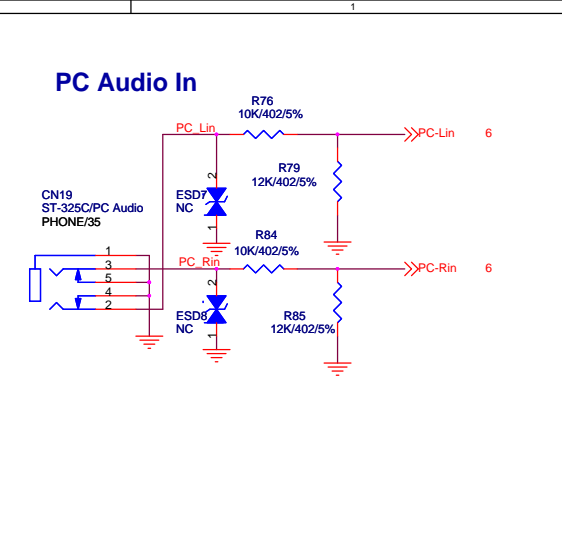
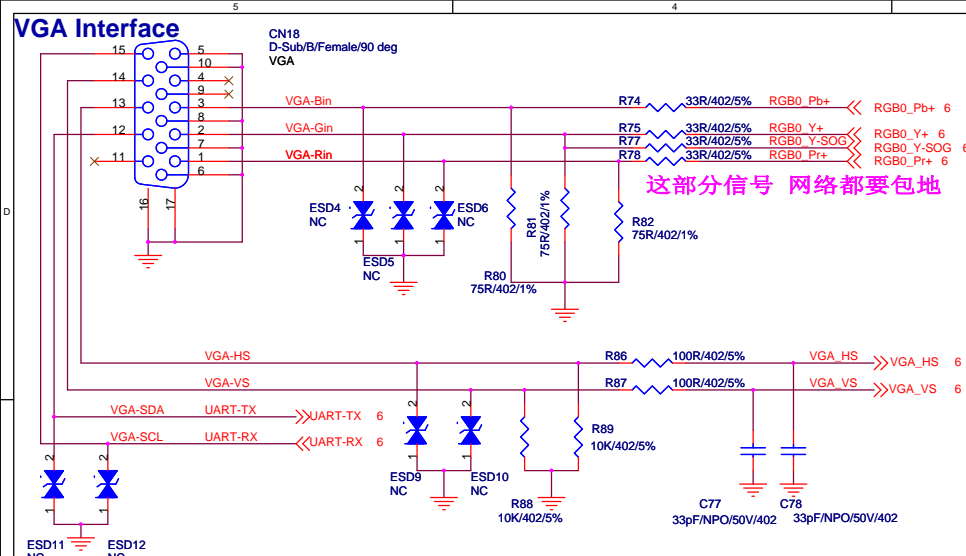
- VBL_CTRL << VBL_CTRL 6
- BRI_ADJ-PWM0 << BRI_ADJ-PWM0 4.6
- PANEL_ON/OFF << PANEL_ON/OFF 6
- PWR-ON/OFF << PWR-ON/OFF 6
- PB-ADJUST << PB-ADJUST 4.6



| Date | Modify Number | Modify By |
|------|---------------|-----------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

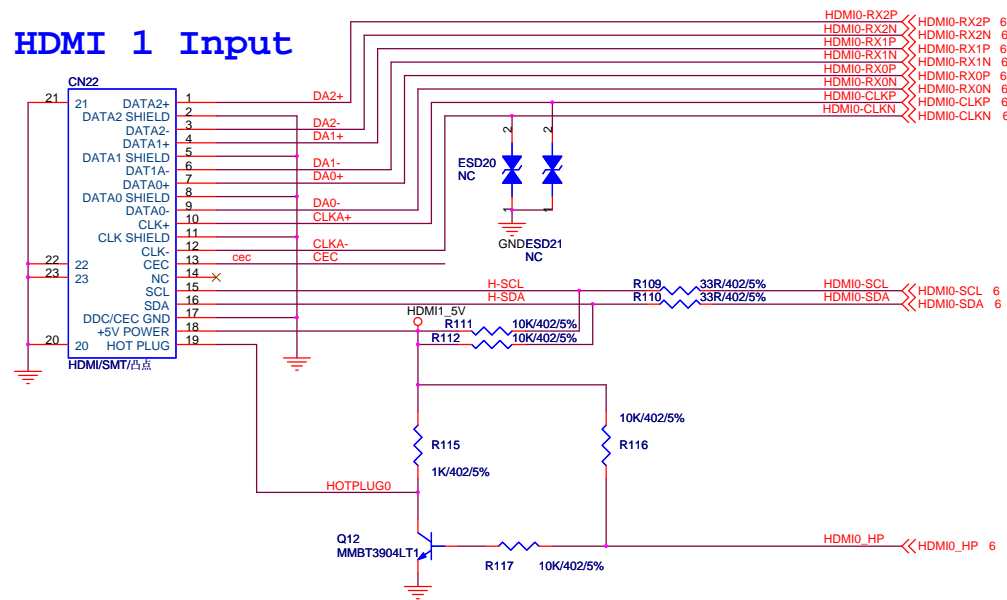
深圳市鼎科实业有限公司
 SheetName: 05.System Power
 Size: A3 Document Number: P65-59S V6.0 Rev: A
 Modify Date: Monday, August 19, 2013 Designed By: suncheng Sheet 5 of 10



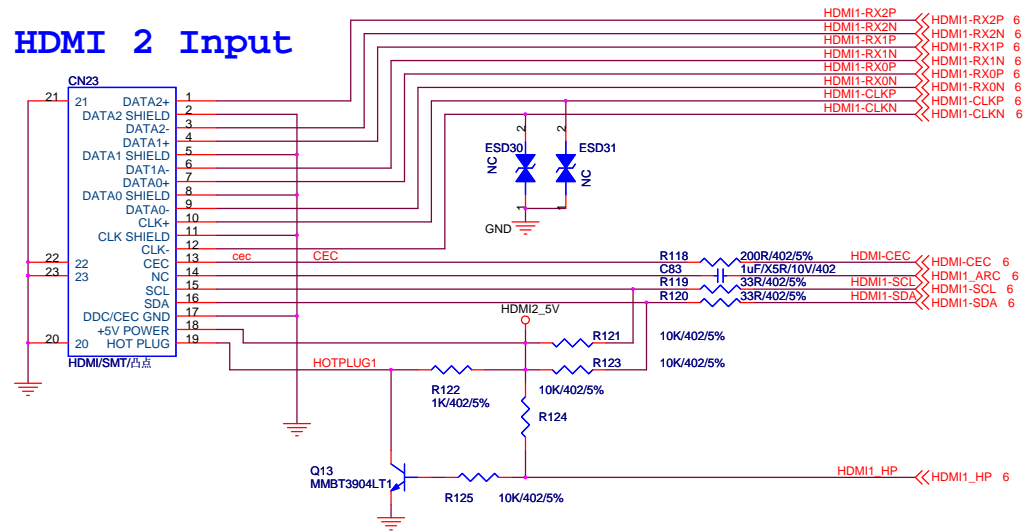


| Date | Modify Number | Modify By |
|--|---------------|-----------|
| | | |
| 深圳市鼎科实业有限公司 SheetName: 07.AV & VGA Size: A3 Document Number: P65-59S V6.0 Rev: A Modify Date: Monday, August 19, 2013 Designed By: suncheng Sheet 7 of 10 | | |

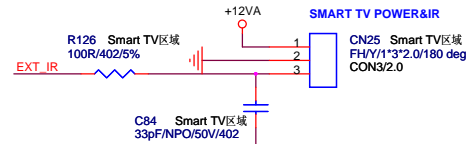
HDMI 1 Input



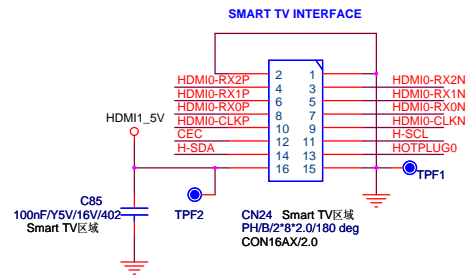
HDMI 2 Input



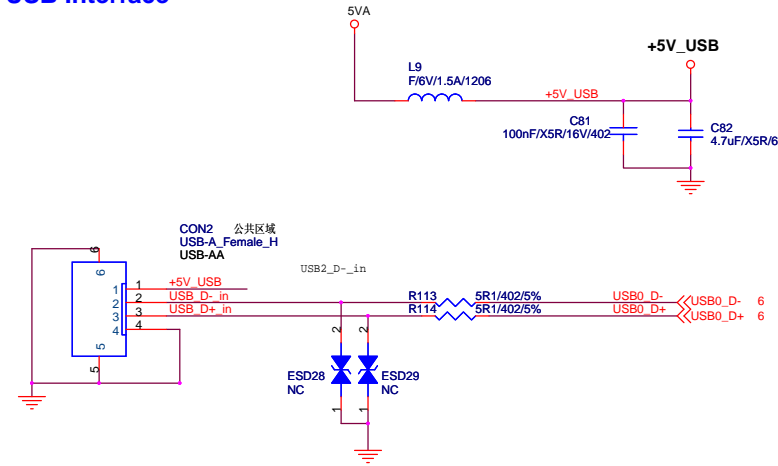
6 EXT_IR >> EXT_IR



外阻座子和HDMI1座子双lay



USB Interface



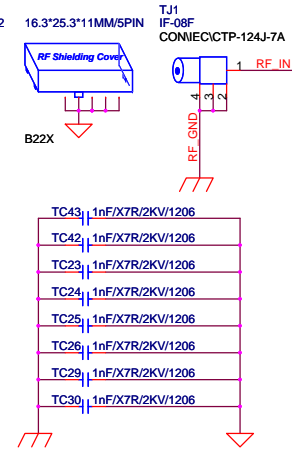
| Date | Modify Number | Modify By | 深圳市鼎科实业有限公司 | | |
|---------------------------------------|---------------|-----------------------|-------------------------|------------------------------|-------|
| | | | SheetName 08.HDMI & USB | | |
| | | | Size A3 | Document Number P65-59S V6.0 | Rev A |
| Modify Date: Monday, January 20, 2014 | | Designed By: suncheng | Sheet 8 of 10 | | |

Silicon Tuner:R620D

RF_GND与AGND的安全间距要求大于1.2mm
两个屏蔽罩之间也要1.2mm

RF 信号输入部分走线, 要走75欧姆的阻抗线。
即线径为20mil, 走线与GND的间距为17mil。PCB成品板厚1.63mm

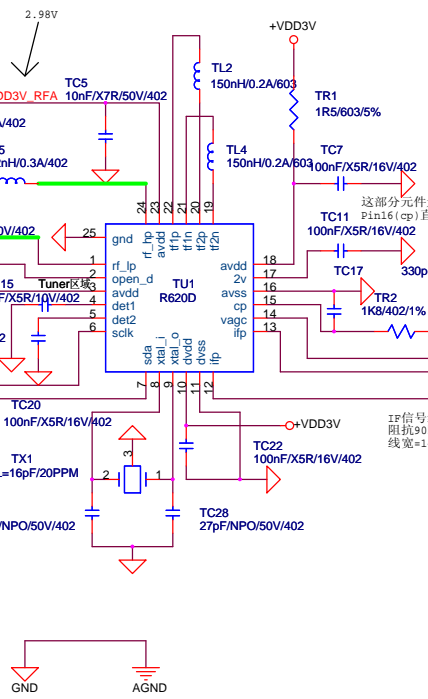
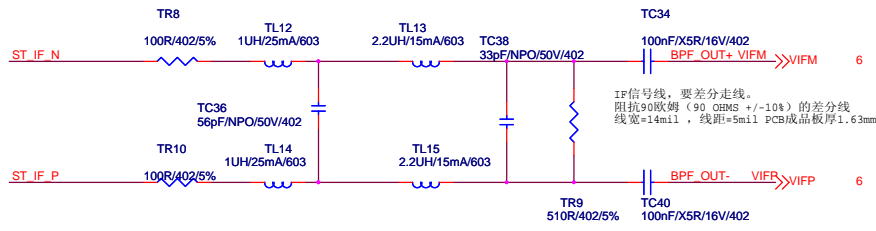
M01:
U9 PCB footprint 改为
MXL601RF_10_CFN24P_050_025_400X,
同SIS的一样。
20121120



| | C114 | C115 | L16 | L17 | C123 | C124 |
|----------------------|------|------|-------|-------|-------|-------|
| Add Notch filter | 68pF | 47pF | 220nH | 220nH | 120pF | 150pF |
| Not Add Notch filter | 10nF | 10nF | NC | NC | NC | NC |

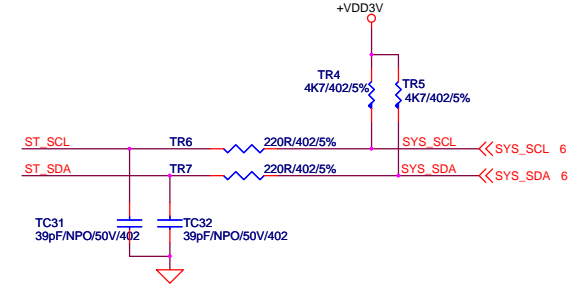
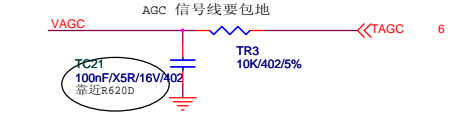
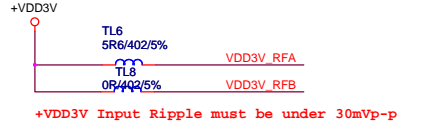
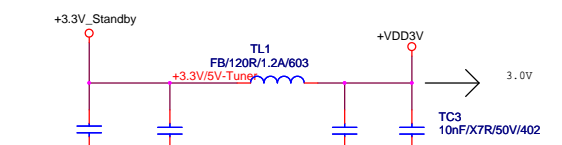
M01:
1>.L8由0R改为56F/402/5%
2>.C120由2.2uF/603/Y5V改为1uF
3>.C125由56nF改为100nF.
4>.删除R177, R179, R178
---20120213

C137=180P, FOR 38.9MHZ OR 38MHZ (PAL)
C137=100P, FOR 45.75MHZ (NTSC)



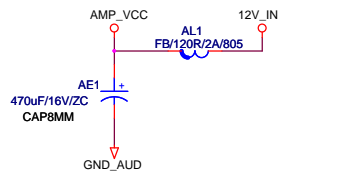
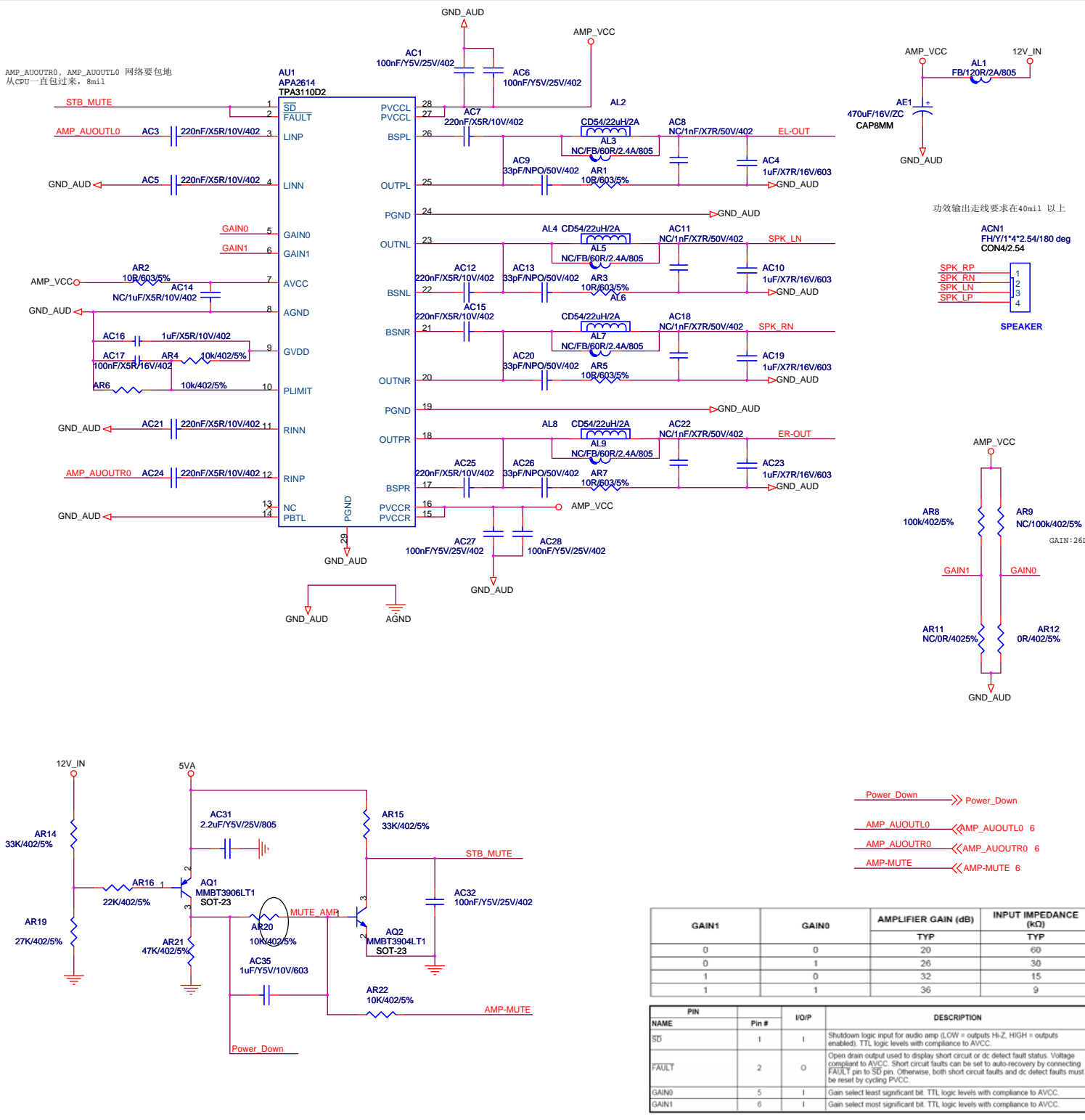
这部分元件走线很关键。
Pin16(cp)直接经过C141到Pin16(avss)。

IF信号线, 要差分走线。
阻抗90欧姆 (90 OHMS +/-10%) 的差分线
线宽=14mil, 线距=5mil PCB成品板厚1.63mm

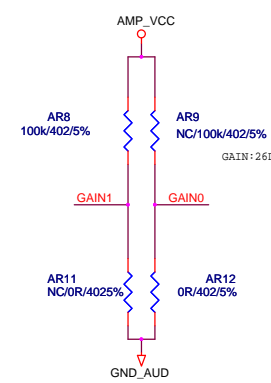
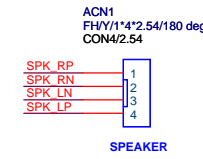


| Date | Modify Number | Modify By | 深圳市鼎科实业有限公司 | |
|--------------|-------------------------|--------------|-------------|------------------------------|
| | | | SheetName | 9.Front End |
| | | | Size A3 | Document Number P65-59S V6.0 |
| | | | Rev A | |
| Modify Date: | Monday, August 19, 2013 | Designed By: | suncheng | Sheet 9 of 10 |

AMP_ADDUTR0, AMP_AUOUTL0 网络要包地
从CPU一直包过来, 8m1



功效输出走线要求在40m1以上

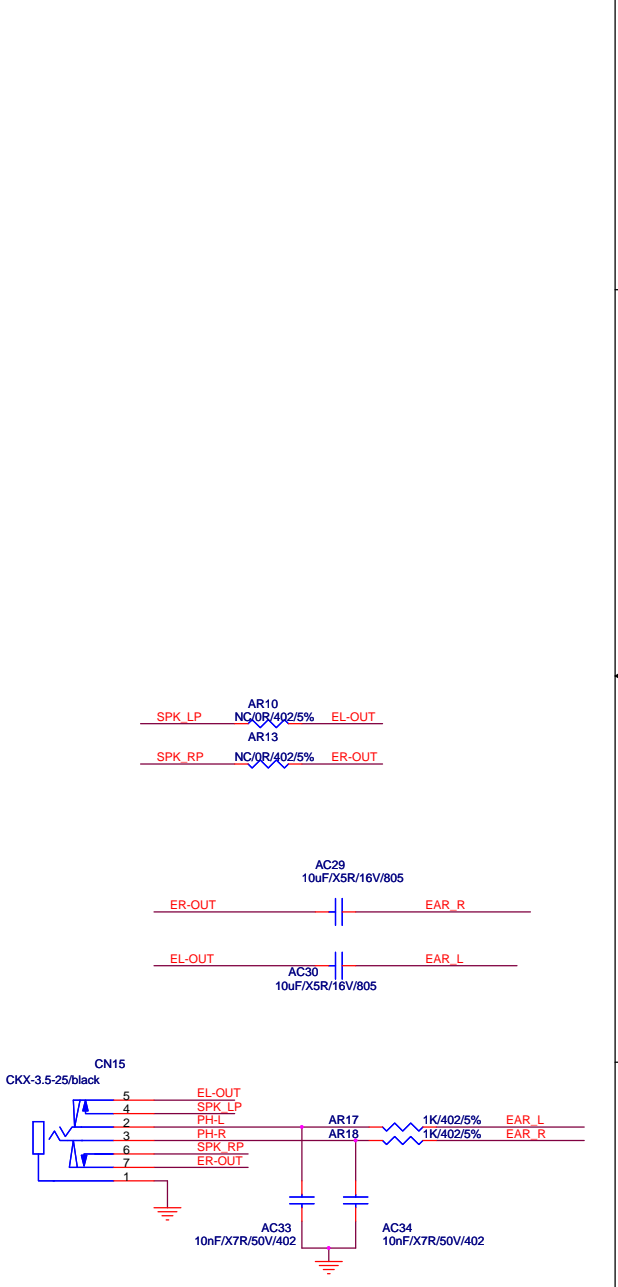


Power_Down >>> Power_Down
AMP_AUOUTL0 <<< AMP_AUOUTL0 6
AMP_AUOUTR0 <<< AMP_AUOUTR0 6
AMP-MUTE <<< AMP-MUTE 6

| GAIN1 | GAIN0 | AMPLIFIER GAIN (dB) | | INPUT IMPEDANCE (kΩ) | |
|-------|-------|---------------------|-----|----------------------|-----|
| | | TYP | TYP | TYP | TYP |
| 0 | 0 | 20 | 60 | | |
| 0 | 1 | 26 | 30 | | |
| 1 | 0 | 32 | 15 | | |
| 1 | 1 | 36 | 9 | | |

| NAME | PIN | Pin # | I/O/P | DESCRIPTION |
|-------|-----|-------|-------|--|
| SD | 1 | 1 | I | Shutdown logic input for audio amp (LOW = outputs Hi-Z, HIGH = outputs enabled). TTL logic levels with compliance to AVCC. |
| FAULT | 2 | 0 | O | Open drain output used to display short circuit or dc detect fault status. Voltage compliant to AVCC. Short circuit faults can be set to auto-recovery by connecting FAULT pin to SD pin. Otherwise, both short circuit faults and dc detect faults must be reset by cycling PVCC. |
| GAIN0 | 5 | 1 | I | Gain select least significant bit. TTL logic levels with compliance to AVCC. |
| GAIN1 | 6 | 1 | I | Gain select most significant bit. TTL logic levels with compliance to AVCC. |

EARPHONE OUT



Date: _____ Modify Number: _____ Modify By: _____

SheetName: **深圳市鼎科实业有限公司**

Size: A3 Document Number: **10. Amplify**

Rev: **A**

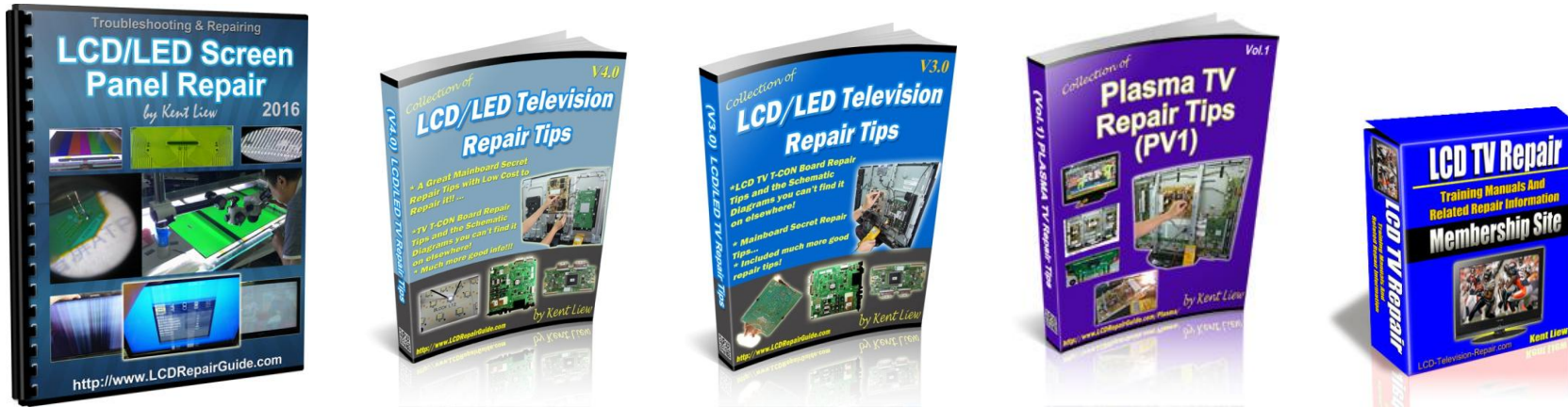
Modify Date: **Tuesday, August 20, 2013** Designed By: **suncheng** Sheet **10** of **10**

Document Title: **P65-59S V6.0**

Highly recommended other great related repair information for you:

With all these great repair information, it will help you in troubleshooting and repairing electronic and the other display devices:
(Please click on the ebook cover to get more details)

1) Best Selling Flat Screen TV Troubleshooting & Repairing Ebooks and Membership Sites:



<http://www.LCDRepairGuide.com>

<http://www.lcd-television-repair.com/newsletter/Recommend.html>

3) Other Great Electronic Repairing Ebooks:

