插座4使用FHD屏及连接关系

| 序号 | 插座4(脚相反对应) | 5(LVDSVDD) | 9(GND) | 10(GND) | 11(E4P) | 12(E4N) | 25(BIT_SEL) | 26(GND) | 27(O4P) | 28(O4N) | 41(GND) | 42(DCR_EN) | 43(PA_VbrB) | 44(Vbr_E) | 45(FOR_SEL) | 46(GND) | 47(GND) | 48(GND) | 49(GND) | 50(GND) | 51(GND) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | LC370WUN-SBD1(LG) | 47(NC) | 43(GND) | 42(GND) | 41(R2EP) | 40(R2EN) | 27(BitSel NC) | 26(GND) | 25(R1EP) | 24(R1EN) | 11(GND) | 10(OPC , H=En) | 9(OPC OUT) | 8(VBR EXT) | 7(GND) | 6(NC) | 5(NC) | 4(NC) | 3(NC) | 2(NC) | 1(GND) |
| 2 | LC420WUN-SBD1(LG) | 47(NC) | 43(GND) | 42(GND) | 41(R2EP) | 40(R2EN) | 27(BitSel NC) | 26(GND) | 25(R1EP) | 24(R1EN) | 11(GND) | 10(OPC , H=En) | 9(OPC OUT) | 8(VBR EXT) | 7(GND) | 6(NC) | 5(NC) | 4(NC) | 3(NC) | 2(NC) | 1(GND) |
| 3 | LC470WUN-SBC1(LG) | 47(NC) | 43(GND) | 42(GND) | 41(R2EP) | 40(R2EN) | 27(BitSel NC) | 26(GND) | 25(R1EP) | 24(R1EN) | 11(GND) | 10(OPC , H=En) | 9(OPC OUT) | 8(VBR EXT) | 7(GND) | 6(NC) | 5(NC) | 4(NC) | 3(NC) | 2(NC) | 1(GND) |
| 4 | T420HW04 V2(AUO) | 47(NC) | 43(GND) | 42(GND) | 41(NC) | 40(NC) | 27(GND) | 26(GND) | 25(NC) | 24(NC) | 11(GND) | 10(NC) | 9(NC) | 8(NC) | 7(GND) | 6(NC) | 5(NC) | 4(NC) | 3(NC) | 2(NC) | 1(GND) |
| 5 | T420HW04 V5(AUO) | 47(NC) | 43(GND) | 42(GND) | 41(NC) | 40(NC) | 27(GND) | 26(GND) | 25(NC) | 24(NC) | 11(GND) | 10(NC) | 9(NC) | 8(NC) | 7(GND) | 6(NC) | 5(NC) | 4(NC) | 3(NC) | 2(NC) | 1(GND) |
| 6 | V420H1-LN1(CMO) | 47(GND) | 43(NC) | 42(NC) | 41(NC) | 40(NC) | 27(NC) | 26(NC) | 25(NC) | 24(NC) | 11(DCREN) | 10(DGMEN) | 9(ODSEL) | 8(RPF) | 7(GND) | 6(NC) | 5(NC) | 4(NC) | 3(NC) | 2(NC) | 1(NC) |
| 7 | V420H1-L15(CMO) | 47(GND) | 43(NC) | 42(NC) | 41(NC) | 40(NC) | 27(NC) | 26(NC) | 25(NC) | 24(NC) | 11(NC) | 10(NC) | 9(ODSEL) | 8(NC) | 7(GND) | 6(NC) | 5(NC) | 4(NC) | 3(NC) | 2(NC) | 1(GND) |
| 8 | V470H2-L01(CMO) | 47(GND) | 43(NC) | 42(NC) | 41(NC) | 40(NC) | 27(NC) | 26(NC) | 25(NC) | 24(NC) | 10(NC) | 10(NC) | 9(ODSEL) | 8(NC) | 7(GND) | 6(NC) | 5(NC) | 4(NC) | 3(NC) | 2(NC) | 1(NC) |

插座5使用FHD屏及连接关系(没有列出的插座引脚全部NC)

| 序号 | 插座5引脚 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 13 | 14 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 26 | 29 | 30 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 插座5引脚定义 | LVDSVDD | LVDSVDD | LVDSVDD | GND | GND | GND | GND | E3P | E3N | ECKP | ECKN | GND | E2P | E2N | E1P | E1N | EOP | EON | GND | O3P | O3N | OCKP | OCKN | GND | O2P | O2N | O1P | O1N | OOP | OON |
| | 对应屏引脚 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 17 | 19 | 18 | 16 | 15 | 13 | 12 | 14 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| 1 | V236H1-L01(CHIMEI) | 5V | 5V | 5V | NC | NC | NC | GND | RXE3+ | RXE3- | RXEC+ | RXE3- | GND | RXE2+ | RXE2- | RXE1+ | RXE1- | RXEO+ | RXEO- | GND | RXO3+ | RXO3- | RXOC+ | RXOC- | GND | RXO2+ | RXO2- | RXO1+ | RXO1- | RXOO+ | RXOO- |
| 2 | M236MWF1 R2(IVO) | 5V | 5V | 5V | GND | NC | GND | GND | RXE3+ | RXE3- | RXEC+ | RXE3- | GND | RXE2+ | RXE2- | RXE1+ | RXE1- | RXEO+ | RXEO- | GND | RXO3+ | RXO3- | RXOC+ | RXOC- | GND | RXO2+ | RXO2- | RXO1+ | RXO1- | RXOO+ | RXOO- |
| 3 | HT236F01-100(BOE) | 5V | 5V | 5V | NC | NC | NC | GND | RXE3+ | RXE3- | RXEC+ | RXE3- | GND | RXE2+ | RXE2- | RXE1+ | RXE1- | RXEO+ | RXEO- | GND | RXO3+ | RXO3- | RXOC+ | RXOC- | GND | RXO2+ | RXO2- | RXO1+ | RXO1- | RXOO+ | RXOO- |

插座3使用FHD屏及连接关系

| 序号 | 插座3(脚相反对应) | 1(GND) | 2(GND) | 3(GND) | 4(GND) | 5(GND) | 6(PVP_LG) | 7(GND), LVDS 选择VESA | 8(GND) | 9(GND) | 10(GND) | 11(GND) | 12(GND) | 14(E4P) | 15(E4N) | 29(O4P) | 30(O4N) | 46(GND) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | LTA400HA07(三星) | 51(NC) | 50(NC) | 49(NC) | 48(NC) | 47(NC) | 46(NC) | 45(LVDS , H=3.3V) | 44(NC) | 43(NC) | 42(NC) | 41(NC) | 40(NC) | 38(NC) | 37(NC) | 23(NC) | 22(NC) | 6(NC) |
| 2 | LTA460HA07(三星) | 51(NC) | 50(NC) | 49(NC) | 48(NC) | 47(NC) | 46(NC) | 45(LVDS , H=3.3V) | 44(NC) | 43(NC) | 42(NC) | 41(NC) | 40(NC) | 38(NC) | 37(NC) | 23(NC) | 22(NC) | 6(NC) |
| 3 | LTA520HB09(三星) | 51(NC) | 50(NC) | 49(NC) | 48(NC) | 47(NC) | 46(NC) | 45(LVDS , GND) | 44(NC) | 43(NC) | 42(NC) | 41(NC) | 40(NC) | 38(NC) | 37(NC) | 23(NC) | 22(NC) | 6(NC) |
| 4 | T460HW03 V1(AUO) | 51(NC) | 50(NC) | 49(NC) | 48(NC) | 47(NC) | 46(NC) | 45(LVDS , H 3.3V/OPEN) | 44(NC) | 43(NC) | 42(NC) | 41(NC) | 40(NC) | 38(NC) | 37(NC) | 23(NC) | 22(NC) | 6(GND) |

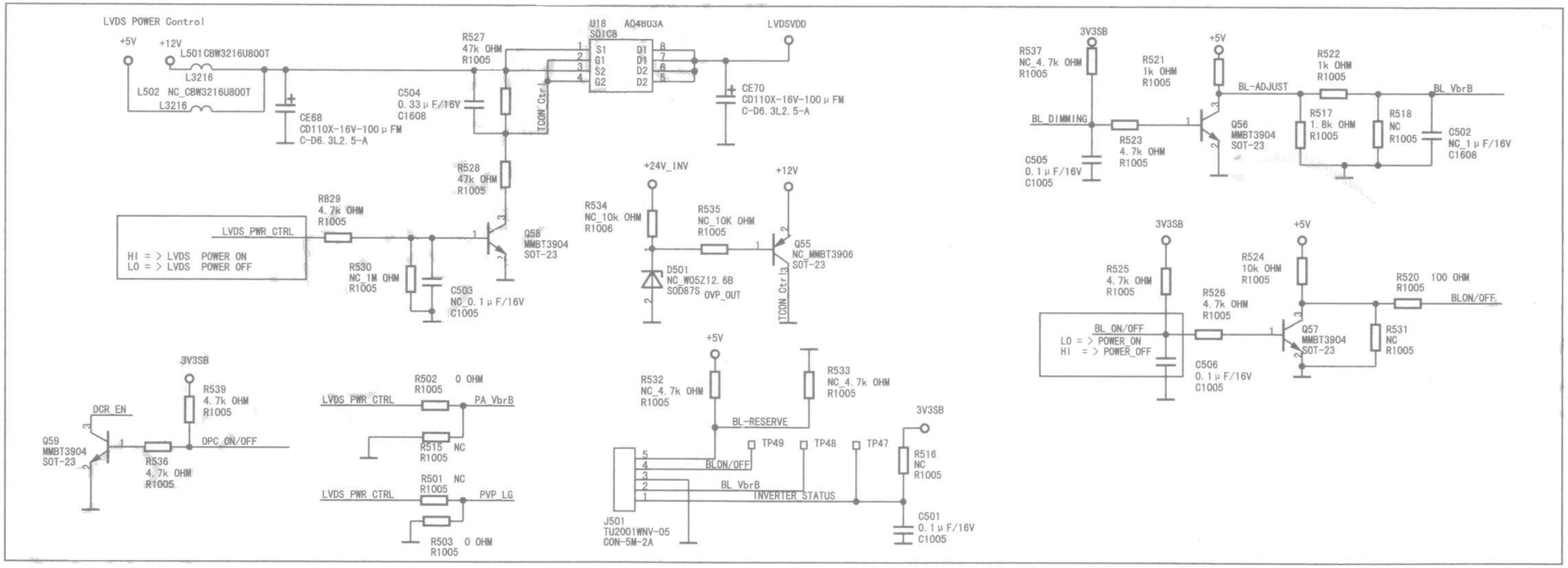
插座2使用NHD屏及连接关系

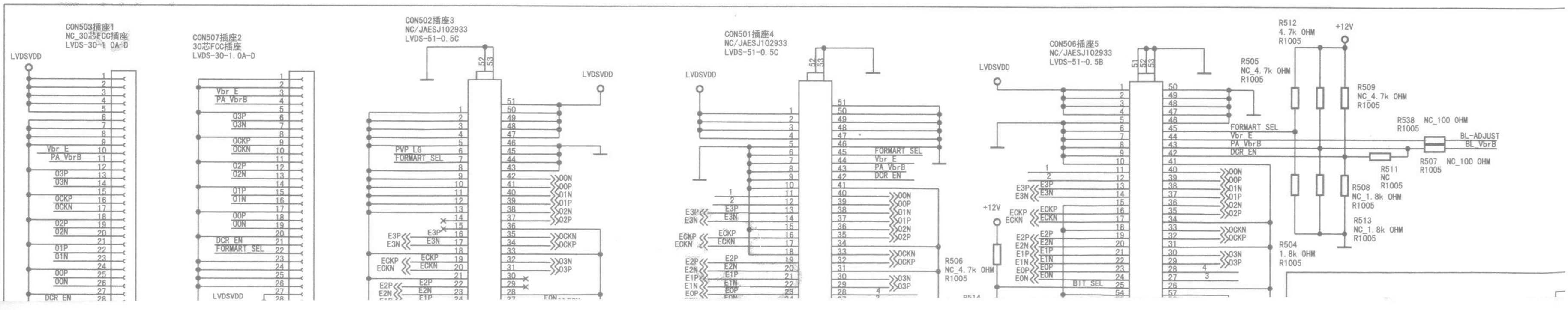
| 序号 | 插座2(脚相反对应) | 3(Vbr_E) | 4(PA_VbrB) | 21(DCR_EN) | 22(FORMART_SEL) |
|---|---|---|---|---|---|
| 1 | LC260WXE(LG) | 28(Ext_VBR-B) | 27(OPC_OUT) | 10(OPC_Enable,H=EN) | 9(LVDS Sel,NC=VES |
| 2 | LC320WXE(LG) | 28(NC) | 27(NC) | 10(NC) | 9(LVDS Sel,NC=VES |
| 3 | LC320WXN(LG) | 28(Ext_VBR-B) | 27(OPC_OUT) | 10(OPC_Enable,H=EN) | 9(LVDS Sel,NC=VES |
| 4 | LC370WXN(LG) | 28(Ext_VBR-B) | 27(OPC_OUT) | 10(OPC_Enable,H=EN) | 9(LVDS Sel,NC=VES |
| 5 | T260XW04 V7(AUO) | 28(OPEN) | 27(OPEN) | 10(OPEN) | 9(LVDS Sel,NC=VES |
| 6 | T315XW02 VR(AUO) | 28(OPEN) | 27(OPEN) | 10(OPEN) | 9(LVDS Sel,NC=VES |
| 7 | T370XW02 VC02(AUO) | 28(OPEN) | 27(OPEN) | 10(OPEN) | 9(LVDS Sel,NC=VES |
| 8 | V315B6-L02(CHIMEI) | 28(OPEN) | 27(OPEN) | 10(ODSEL,L/OPEN=60Hz,H=50Hz) | 9(LVDS Sel,NC=VES |
| 9 | V370B1-L01(CHIMEI) | 28(OPEN) | 27(OPEN) | 10(ODSEL,L/OPEN=60Hz,H=50Hz) | 9(LVDS Sel,NC=VES |

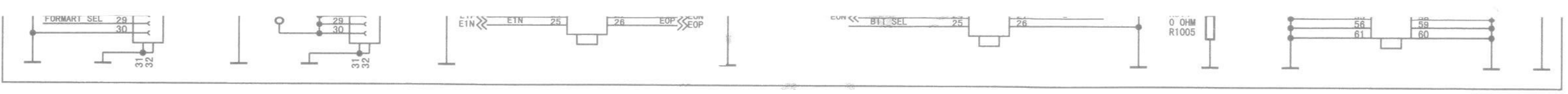
插座1使用NHD屏及连接关系

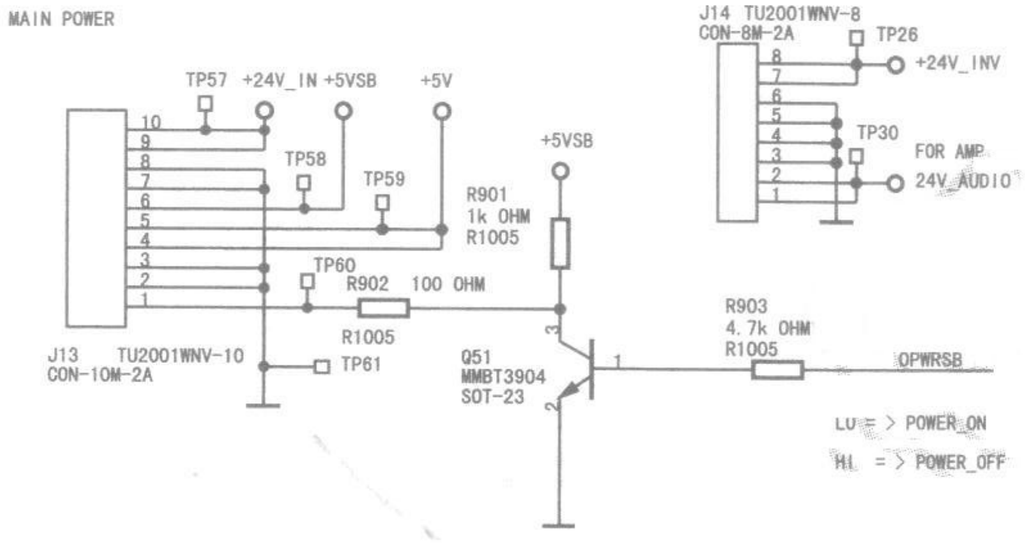
| 序号 | 插座1(脚相反对应) | 7(GND) | 8(GND) | 9(GND) | 10(Vbr_E)建议改为3.3V | 11(PA_VbrB) | 28(DCR_EN) | 29(L |
|---|---|---|---|---|---|---|---|---|
| 1 | LTA260AP04(三星) | 24(GND) | 23(GND) | 22(NC) | 21(LVDS_SEL/3.3V/NORM) | 20(NC) | 3(NC) | 2(NC |
| 2 | LTA320AP02(三星) | 24(NC) | 23(NC) | 22(NC) | 21(LVDS_SEL/3.3V/NORM) | 20(NC) | 3(NC) | 2(NC |
| 3 | M260TWR1(IVO) | 24(GND) | 23(GND) | 22(TP) | 21(NC) | 20(NC) | 3(NC) | 2(NC |
| 4 | V260B2-L04(CHIMEI) | 24(GND) | 23(GND) | 22(NC) | 21(LVDS_SEL/3.3V/NORM) | 20(NC) | 3(NC) | 2(NC |

上屏线连接方式,请谨慎更改!

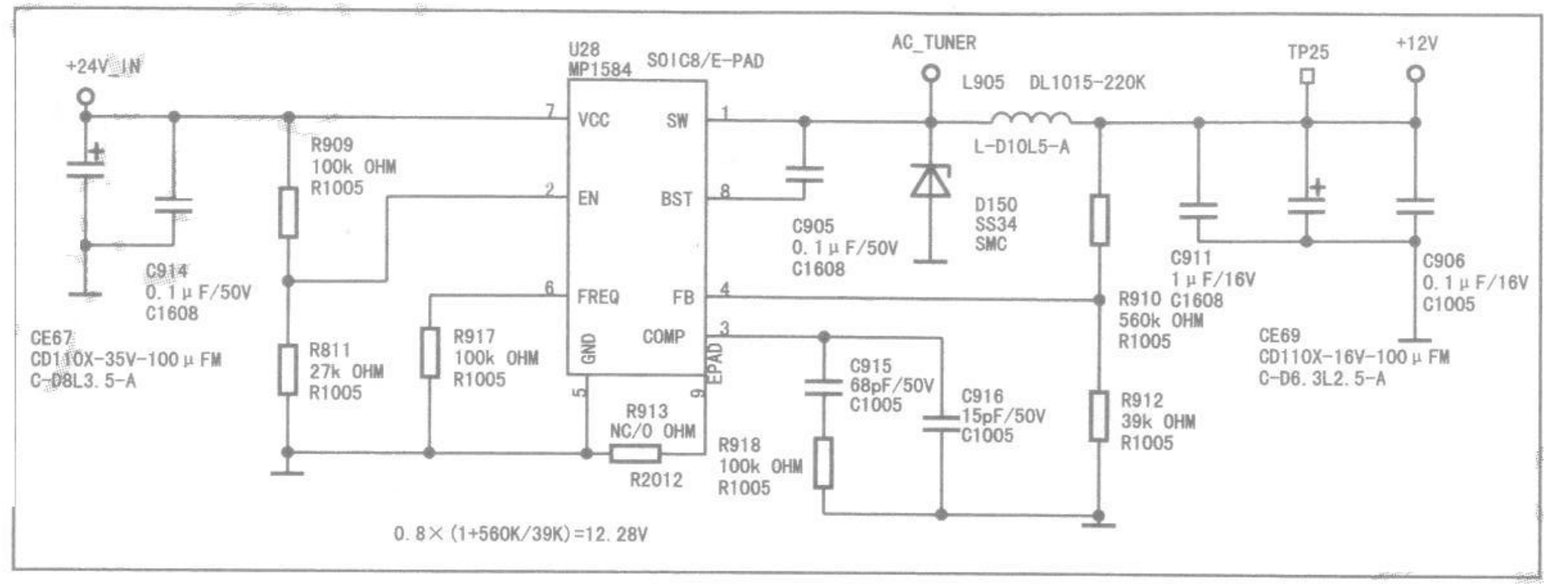


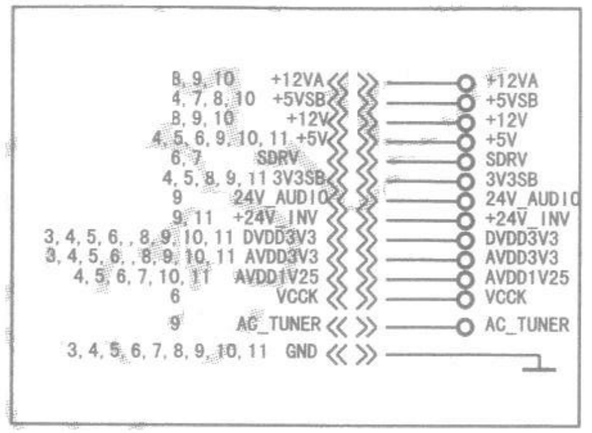



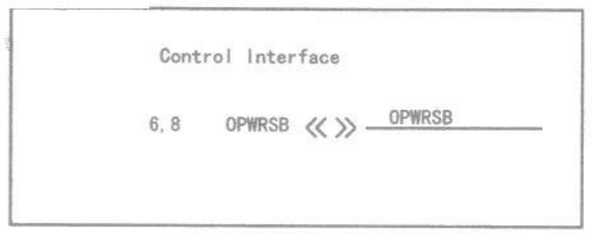

FORMART SEL
EIN
ETN
EOP
BIT_SEL
0 OHM
R1005

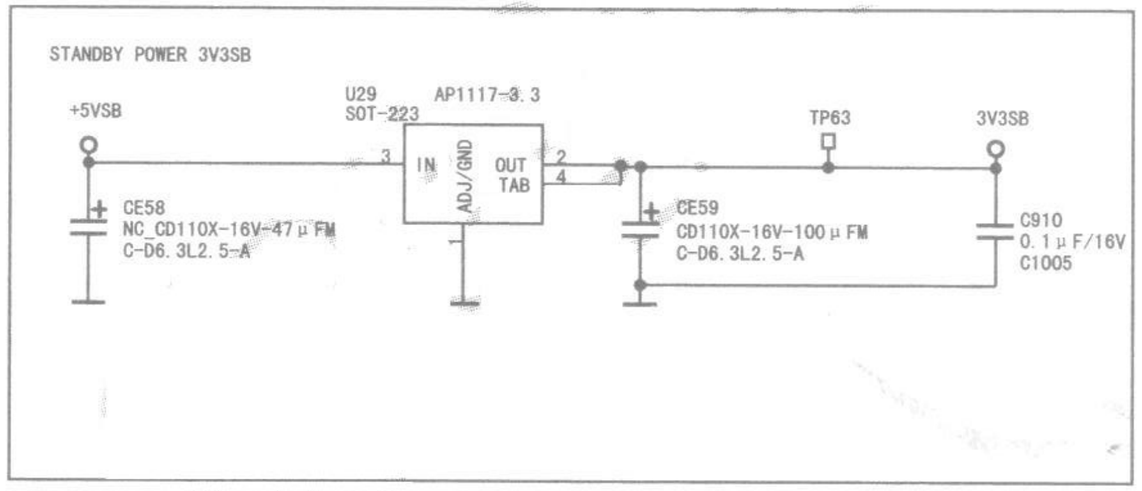

MAIN POWER
TP57 +24V_IN
+5VSB
+5V
TP58
TP59
TP60
R901
1k OHM
R1005
R902 100 OHM
R1005
R903
4.7k OHM
R1005
OPWRSB
TP61
J13 TU2001WNV-10
CON-10M-2A
Q51
MMBT3904
SOT-23
LO = > POWER_ON
HI = > POWER_OFF

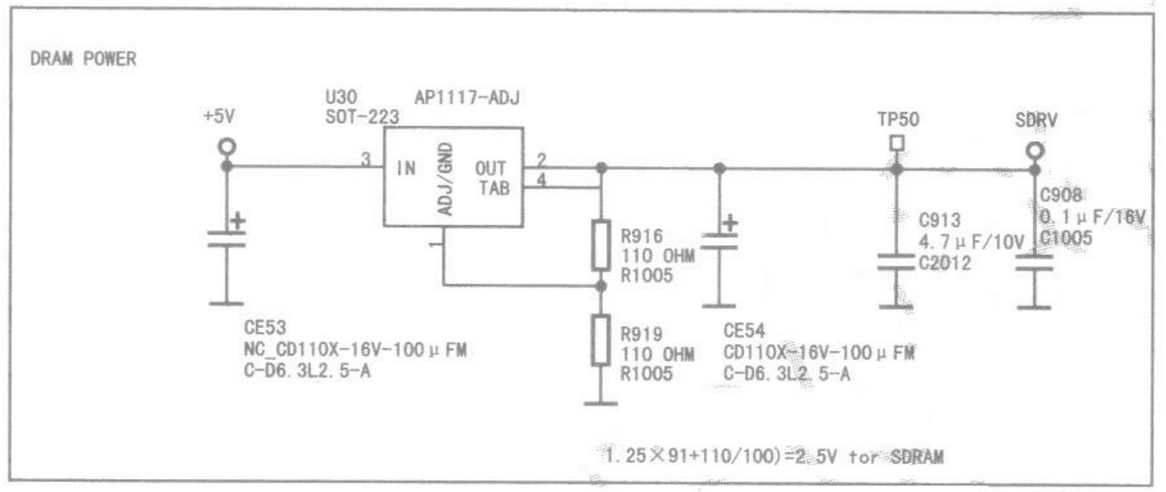

J14 TU2001WNV-8
CON-8M-2A
TP26
+24V_INV
TP30
FOR AMP
24V_AUDIO

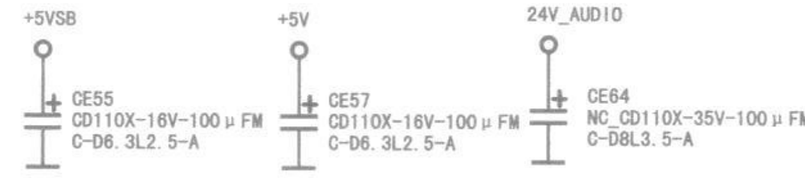

+24V_IN
U28
MP1584
SOIC8/E-PAD
VCC
SW
EN
BST
FREQ
FB
GND
COMP
EPAD
AC_TUNER
L905 DL1015-220K
L-D10L5-A
TP25
+12V
D150
SS34
SMC
C905
0.1μF/50V
C1608
C914
0.1μF/50V
C1608
CE67
CD110X-35V-100μFM
C-D8L3.5-A
R909
100k OHM
R1005
R811
27k OHM
R1005
R917
100k OHM
R1005
R913
NC/0 OHM
R2012
R918
100k OHM
R1005
C915
68pF/50V
C1005
C916
15pF/50V
C1005
R910
560k OHM
R1005
R912
39k OHM
R1005
C911
1μF/16V
C1608
CE69
CD110X-16V-100μFM
C-D6.3L2.5-A
C906
0.1μF/16V
C1005
0.8×(1+560K/39K)=12.28V

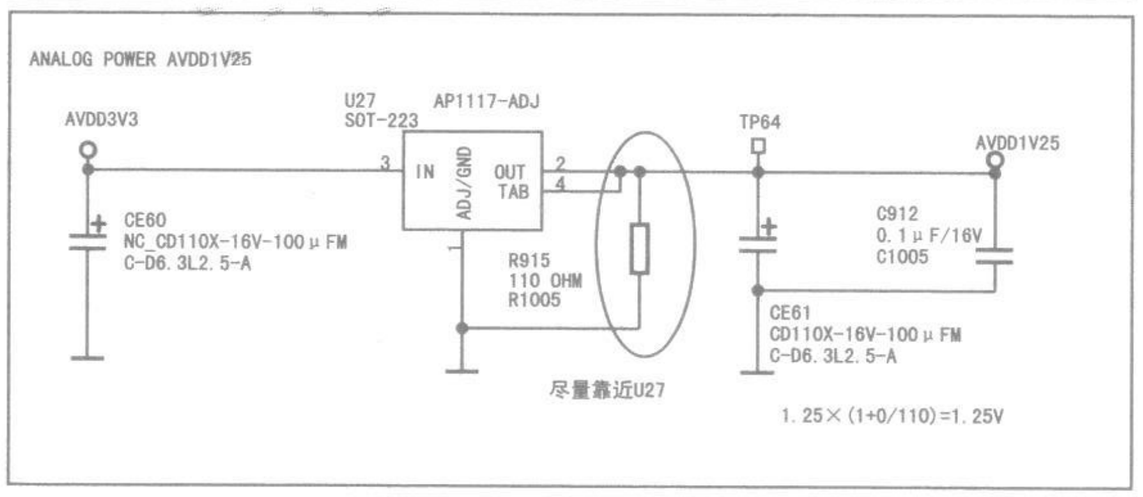

8,9,10 +12VA
4,7,8,10 +5VSB
8,9,10 +12V
4,5,6,9,10,11 +5V
6,7 SDRV
4,5,8,9,11 3V3SB
9 24V_AUDIO
9,11 +24V_INV
3,4,5,6,,8,9,10,11 DVDD3V3
3,4,5,6,,8,9,10,11 AVDD3V3
4,5,6,7,10,11 AVDD1V25
6 VCCK
9 AC_TUNER
3,4,5,6,7,8,9,10,11 GND

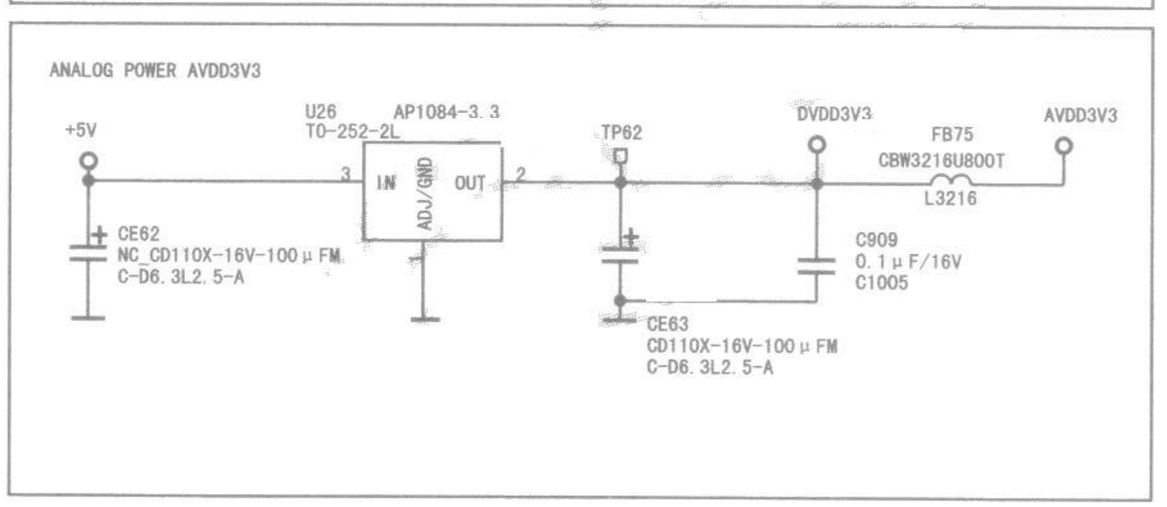

Control Interface
6,8 OPWRSB
OPWRSB

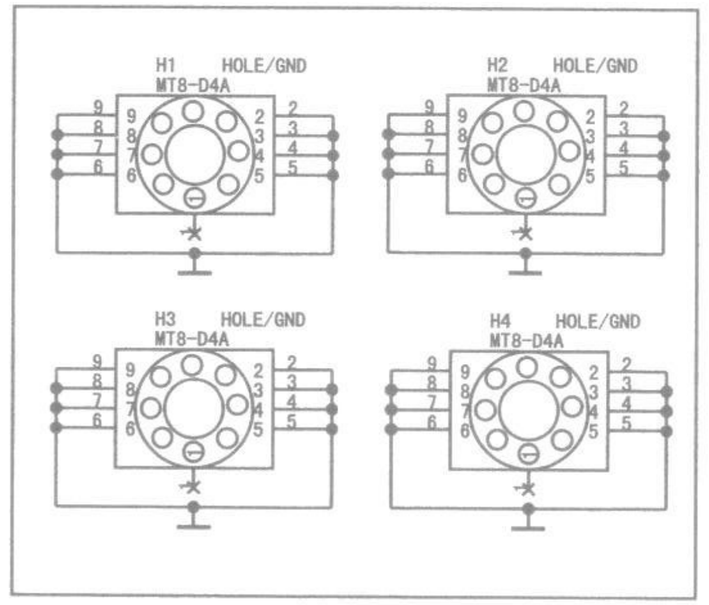

STANDBY POWER 3V3SB
+5VSB
U29
SOT-223
AP1117-3.3
IN
ADJ/GND
OUT
TAB
TP63
3V3SB
CE58
NC_CD110X-16V-47μFM
C-D6.3L2.5-A
CE59
CD110X-16V-100μFM
C-D6.3L2.5-A
C910
0.1μF/16V
C1005


DRAM POWER
+5V
U30
SOT-223
AP1117-ADJ
IN
ADJ/GND
OUT
TAB
TP50
SDRV
CE53
NC_CD110X-16V-100μFM
C-D6.3L2.5-A
R916
110 OHM
R1005
R919
110 OHM
R1005
CE54
CD110X-16V-100μFM
C-D6.3L2.5-A
C913
4.7μF/10V
C2012
C908
0.1μF/16V
C1005
1.25×91+110/100)=2.5V for SDRAM

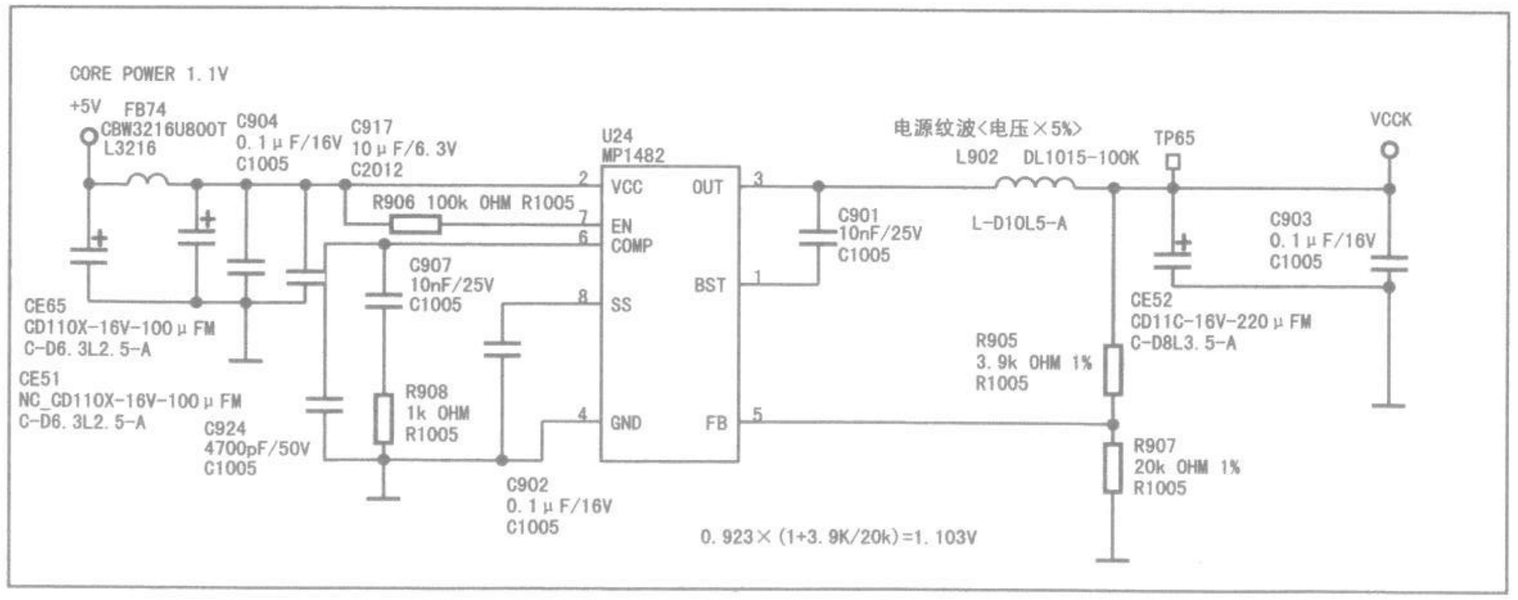

+5VSB
CE55
CD110X-16V-100μFM
C-D6.3L2.5-A
+5V
CE57
CD110X-16V-100μFM
C-D6.3L2.5-A
24V_AUDIO
CE64
NC_CD110X-35V-100μFM
C-D8L3.5-A

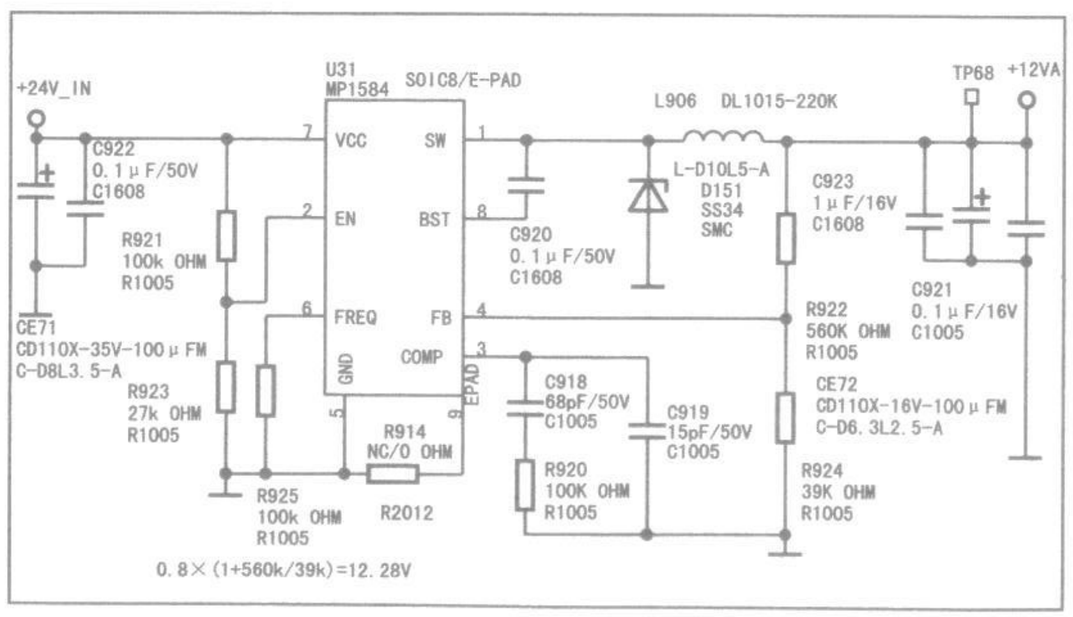

ANALOG POWER AVDD1V25
AVDD3V3
U27
SOT-223
AP1117-ADJ
IN
ADJ/GND
OUT
TAB
TP64
AVDD1V25
CE60
NC_CD110X-16V-100μFM
C-D6.3L2.5-A
R915
110 OHM
R1005
C912
0.1μF/16V
C1005
CE61
CD110X-16V-100μFM
C-D6.3L2.5-A
尽量靠近U27
1.25×(1+0/110)=1.25V


ANALOG POWER AVDD3V3
+5V
U26
TO-252-2L
AP1084-3.3
IN
ADJ/GND
OUT
TP62
DVDD3V3
FB75
CBW3216U800T
L3216
AVDD3V3
CE62
NC_CD110X-16V-100μFM
C-D6.3L2.5-A
C909
0.1μF/16V
C1005
CE63
CD110X-16V-100μFM
C-D6.3L2.5-A


H1 HOLE/GND
MT8-D4A
H2 HOLE/GND
MT8-D4A
H3 HOLE/GND
MT8-D4A
H4 HOLE/GND
MT8-D4A


MARK1
MARK2
MARK3
MARK4
MARK5
MARK6


CORE POWER 1.1V
+5V
FB74
CBW3216U800T
L3216
C904
0.1μF/16V
C1005
C917
10μF/6.3V
C2012
U24
MP1482
VCC
EN
COMP
SS
GND
OUT
BST
FB
R906 100k OHM R1005
C907
10nF/25V
C1005
R908
1k OHM
R1005
C924
4700pF/50V
C1005
C902
0.1μF/16V
C1005
CE65
CD110X-16V-100μFM
C-D6.3L2.5-A
CE51
NC_CD110X-16V-100μFM
C-D6.3L2.5-A
电源纹波<电压×5%>
L902 DL1015-100K
L-D10L5-A
C901
10nF/25V
C1005
TP65
VCCK
C903
0.1μF/16V
C1005
CE52
CD11C-16V-220μFM
C-D8L3.5-A
R905
3.9k OHM 1%
R1005
R907
20k OHM 1%
R1005
0.923×(1+3.9K/20k)=1.103V

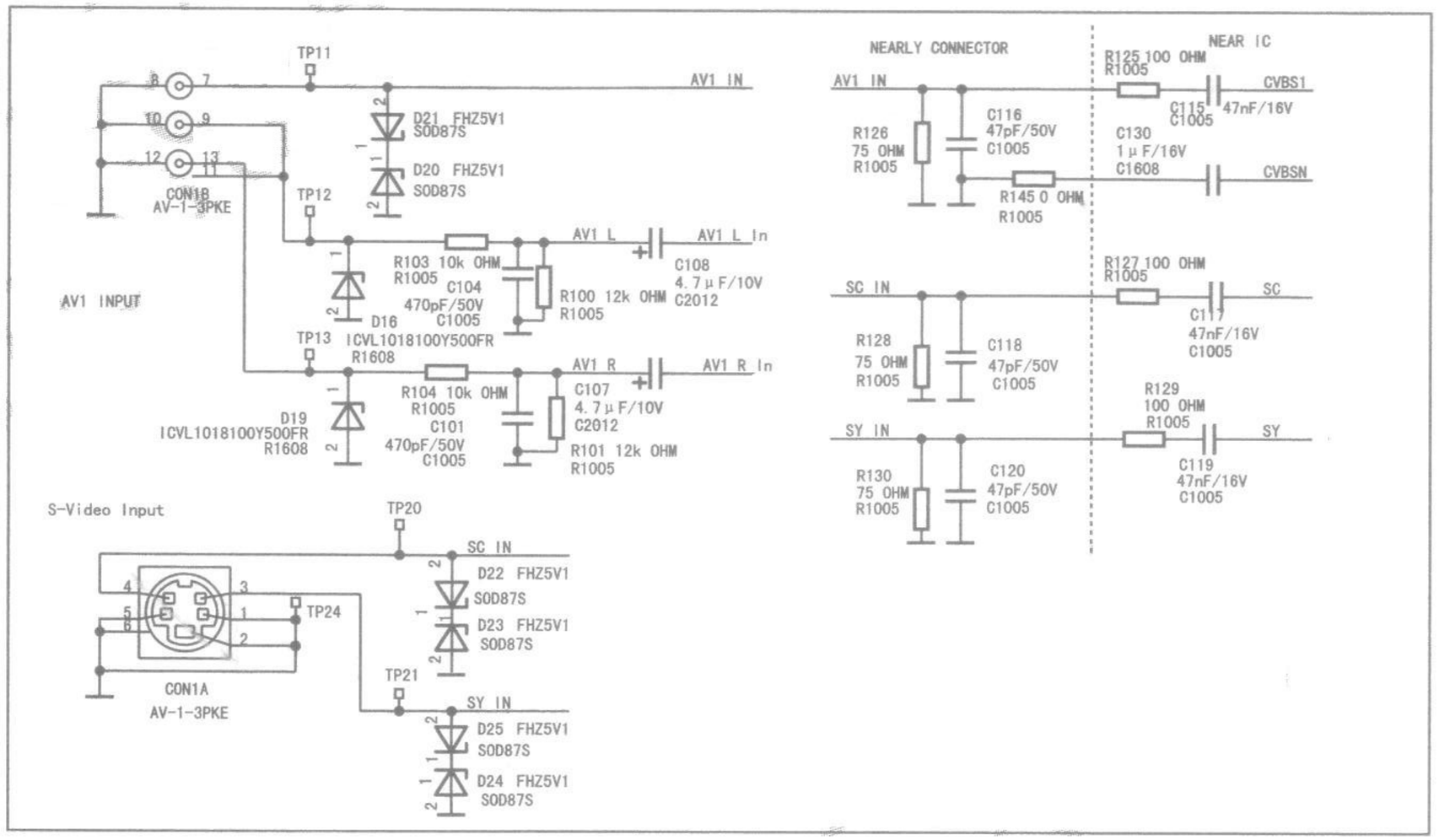

+24V_IN
U31
MP1584
SOIC8/E-PAD
VCC
SW
EN
BST
FREQ
FB
GND
COMP
EPAD
TP68
+12VA
L906 DL1015-220K
L-D10L5-A
D151
SS34
SMC
C922
0.1μF/50V
C1608
C920
0.1μF/50V
C1608
C923
1μF/16V
C1608
C921
0.1μF/16V
C1005
CE71
CD110X-35V-100μFM
C-D8L3.5-A
R921
100k OHM
R1005
R923
27k OHM
R1005
R914
NC/0 OHM
R2012
R925
100k OHM
R1005
R922
560K OHM
R1005
CE72
CD110X-16V-100μFM
C-D6.3L2.5-A
C918
68pF/50V
C1005
C919
15pF/50V
C1005
R920
100K OHM
R1005
R924
39K OHM
R1005
0.8×(1+560k/39k)=12.28V

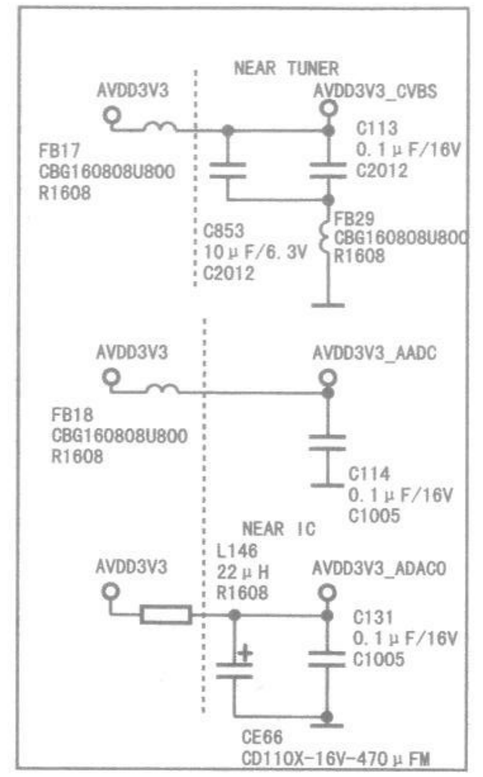
| | |
|---|---|
| | 24P (VP_LG) |
| A) | 7 (GND) |
| A) | 7 (GND) |
| A) | 7 (GND) |
| A) | 7 (GND) |
| A) | 7 (GND) |
| A) | 7 (GND) |
| A) | 7 (GND) |
| A) | 7 (GND) |
| A) | 7 (GND) |

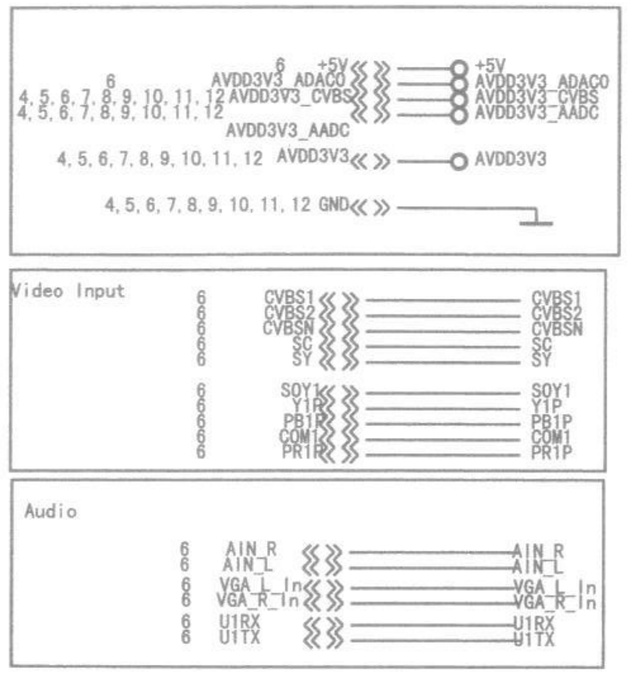
| | |
|---|---|
| /DS_SEL) | 30 (GND) |
| ) | 1 (NC) |
| | 1 (NC) |
| | 1 (NC) |
| | 1 (NC) |

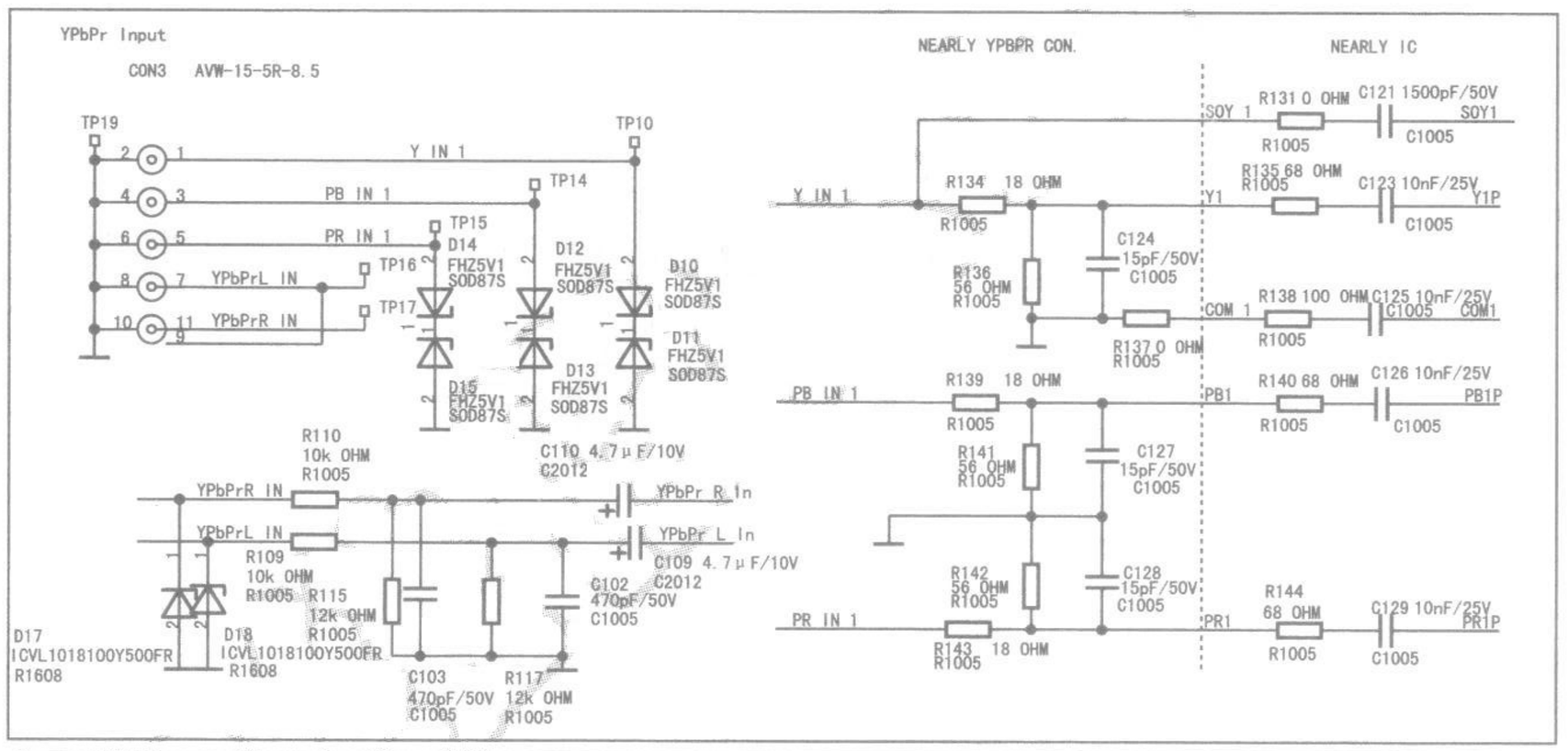
7, 8, 9, 10, 12
0, 12
9, 10, 12
3, 9, 10, 12
2
. 8, 9, 12
. 6, 9, 12
0, 12
. 12

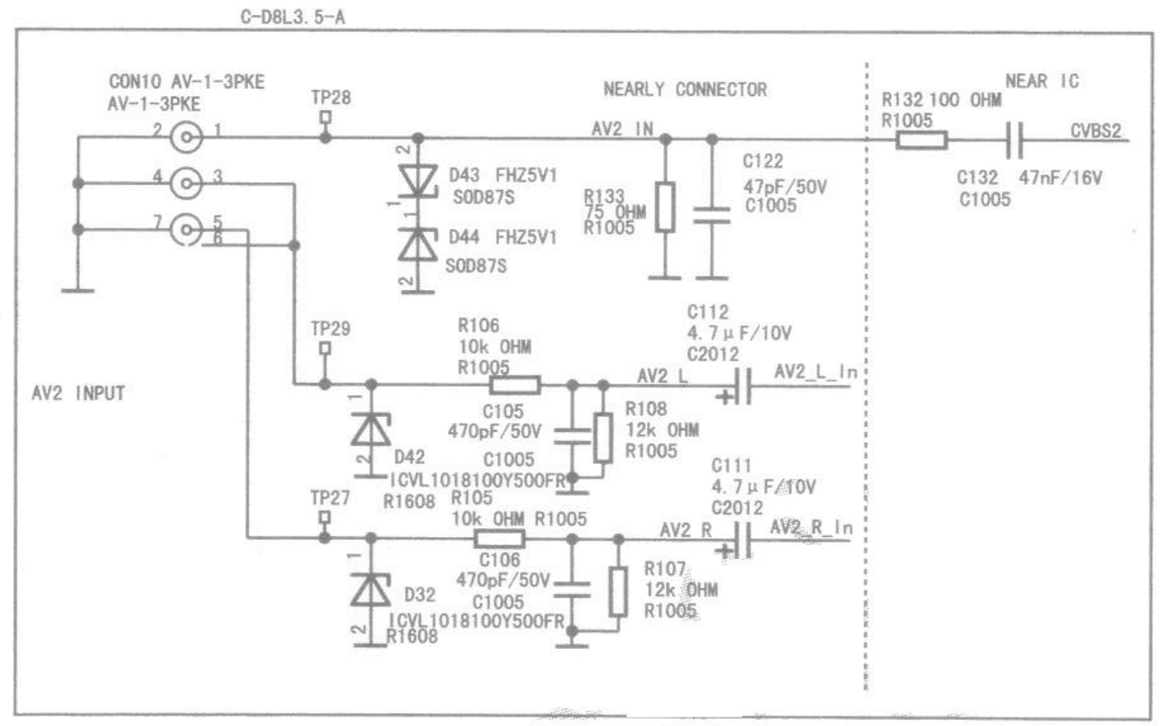
11
11
11
611

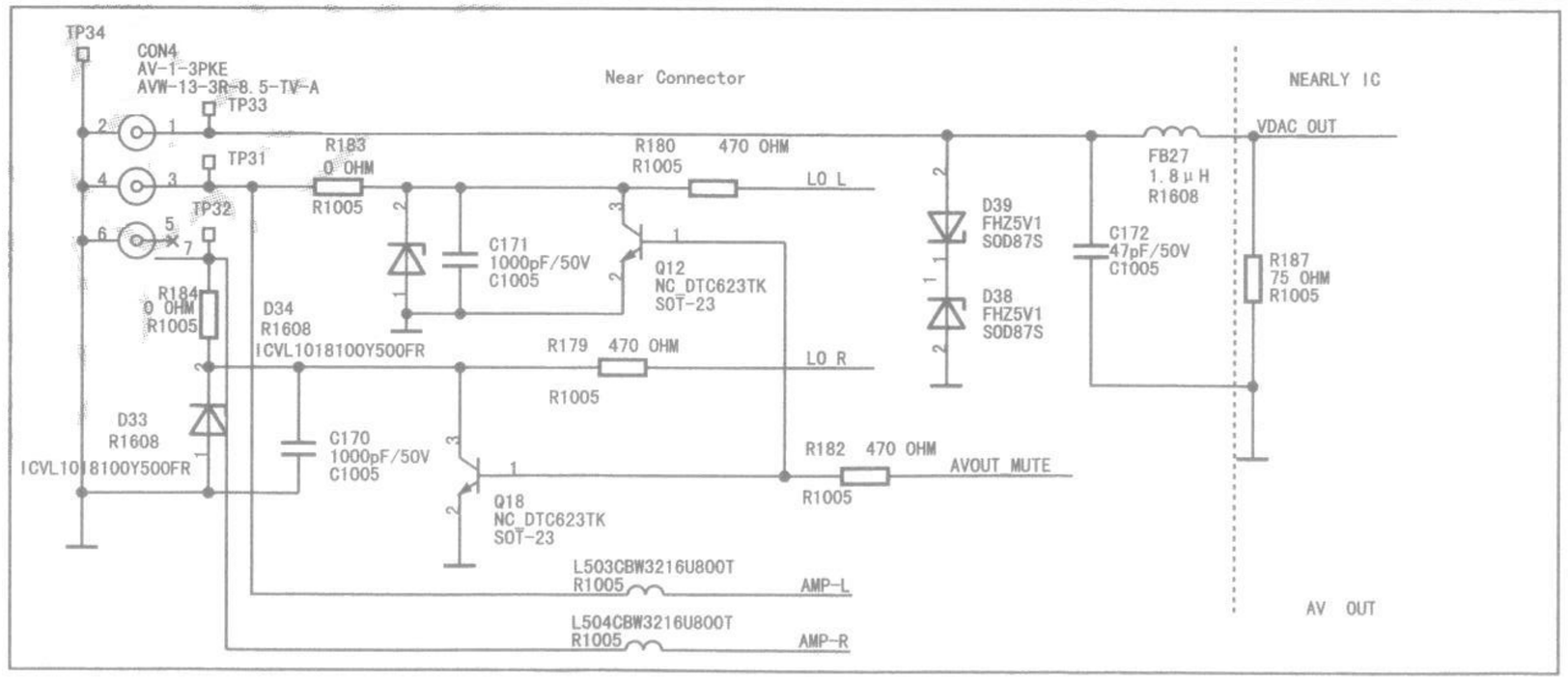


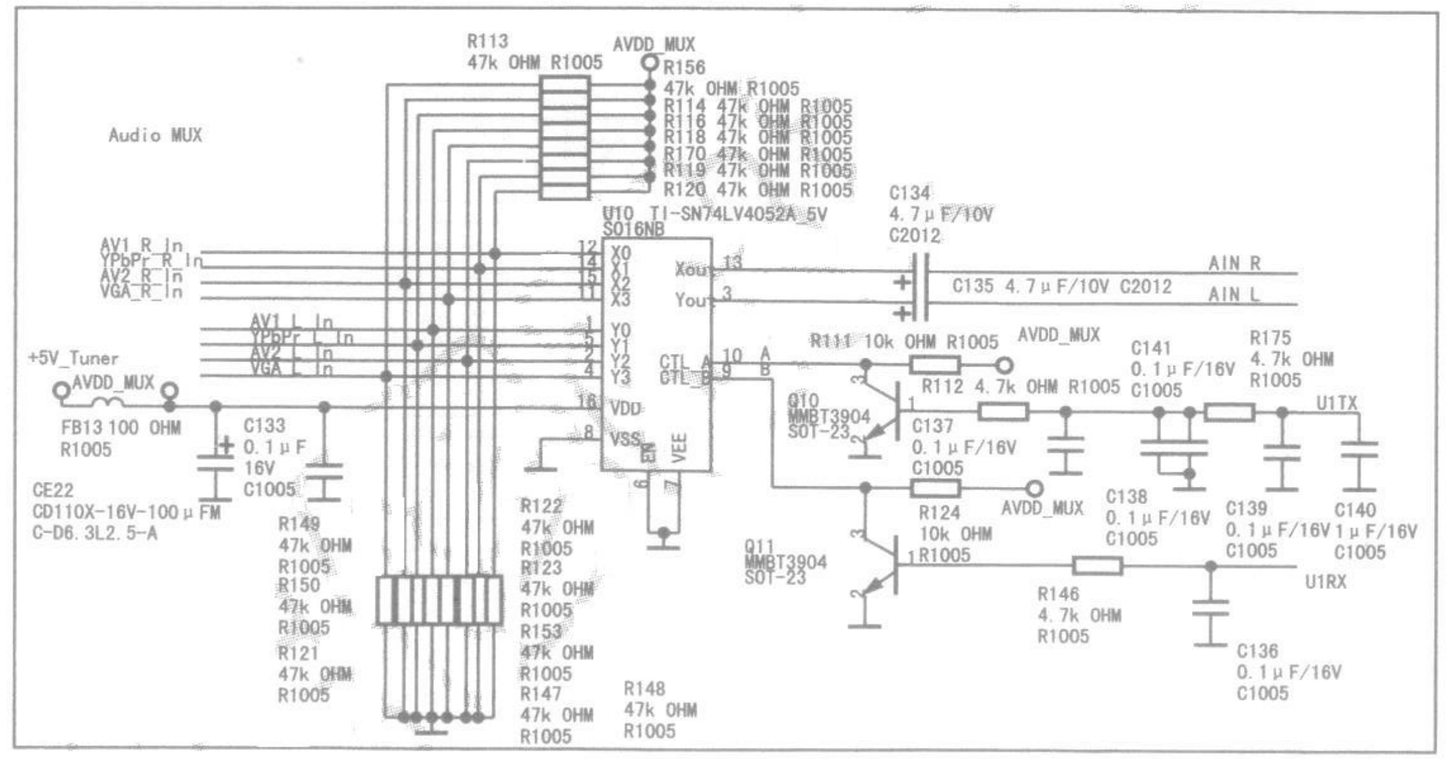



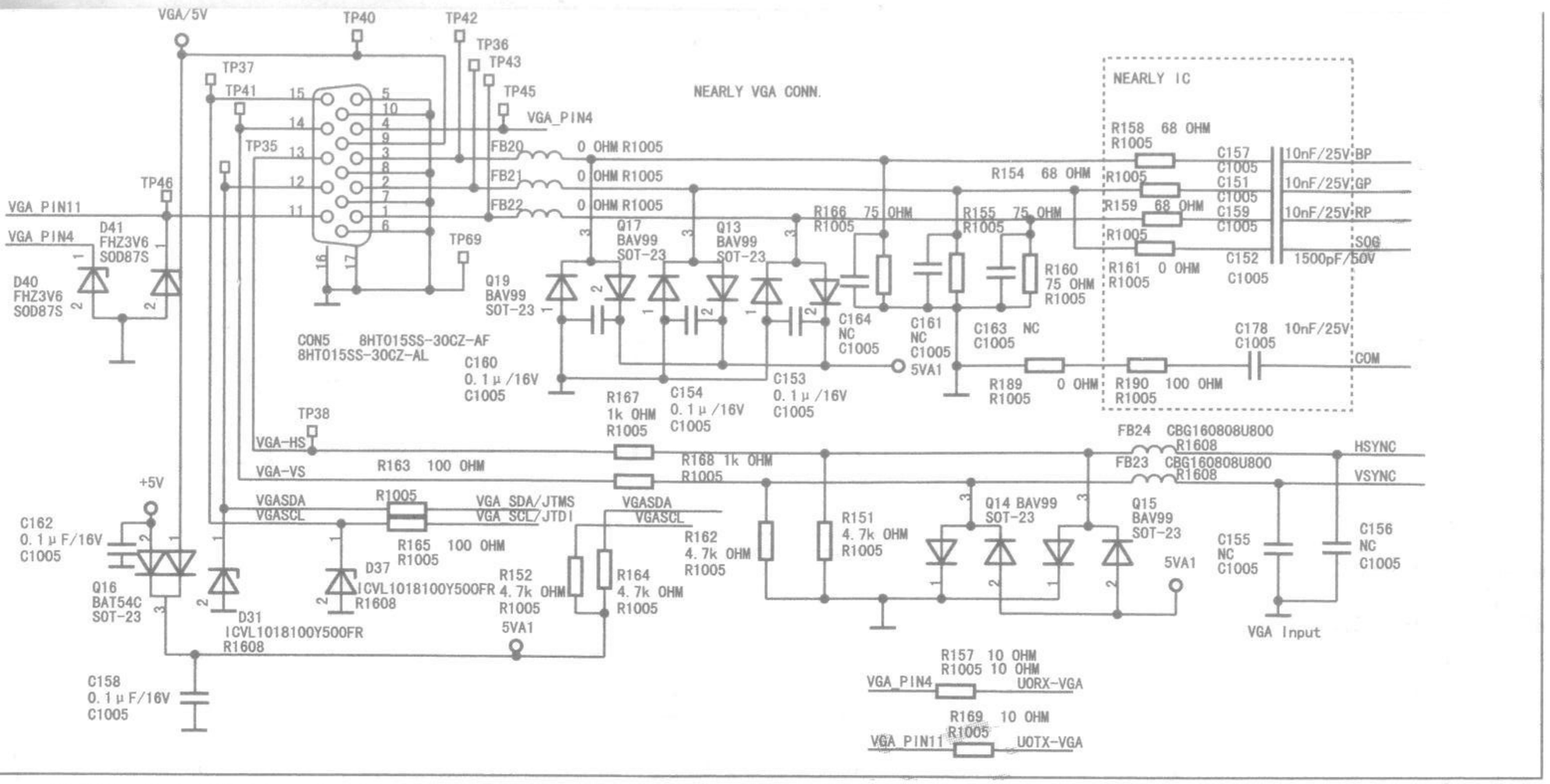



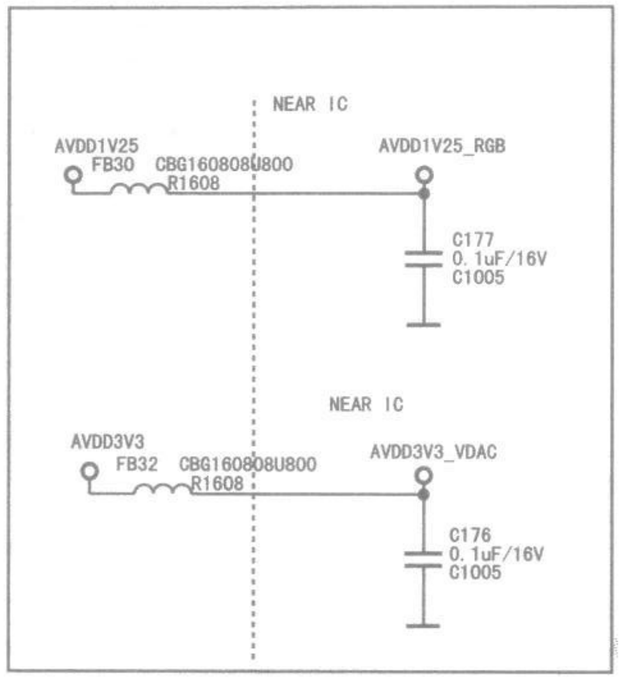



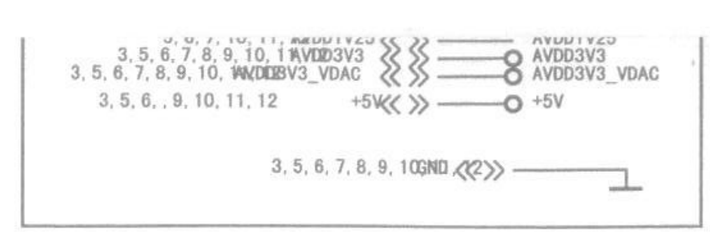



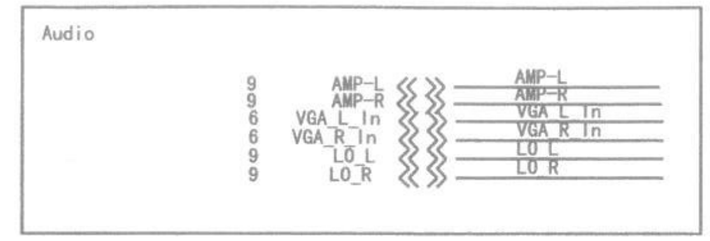



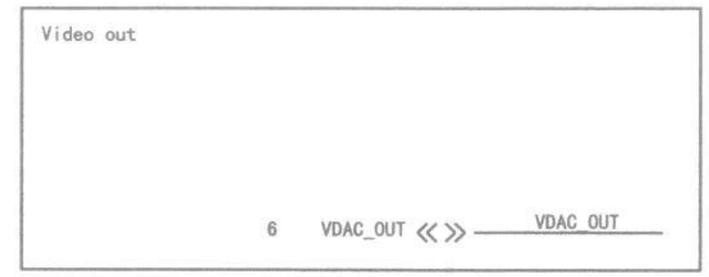

# 晶彩电电路原理图（二）


VGA/5V
NEARLY VGA CONN.
NEARLY IC
CON5 8HT015SS-30CZ-AF
8HT015SS-30CZ-AL
VGA-HS
VGA-VS
VGASDA
VGASCL
VGA_SDA/JTMS
VGA_SCL/JTDI
VGA Input
HSYNC
VSYNC
COM
R157 10 OHM
R169 10 OHM
VGA_PIN4
VGA_PIN11
UORX-VGA
UOTX-VGA

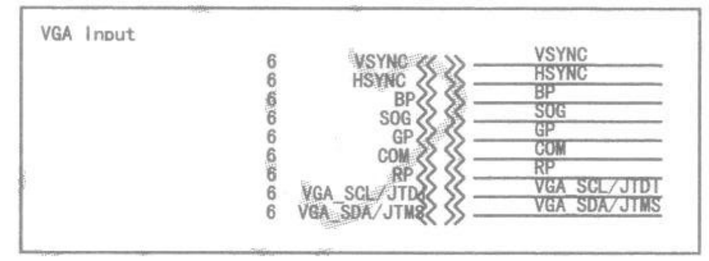

NEAR IC
AVDD1V25
AVDD1V25_RGB
AVDD3V3
AVDD3V3_VDAC


AVDD3V3
AVDD3V3_VDAC
+5V
GND

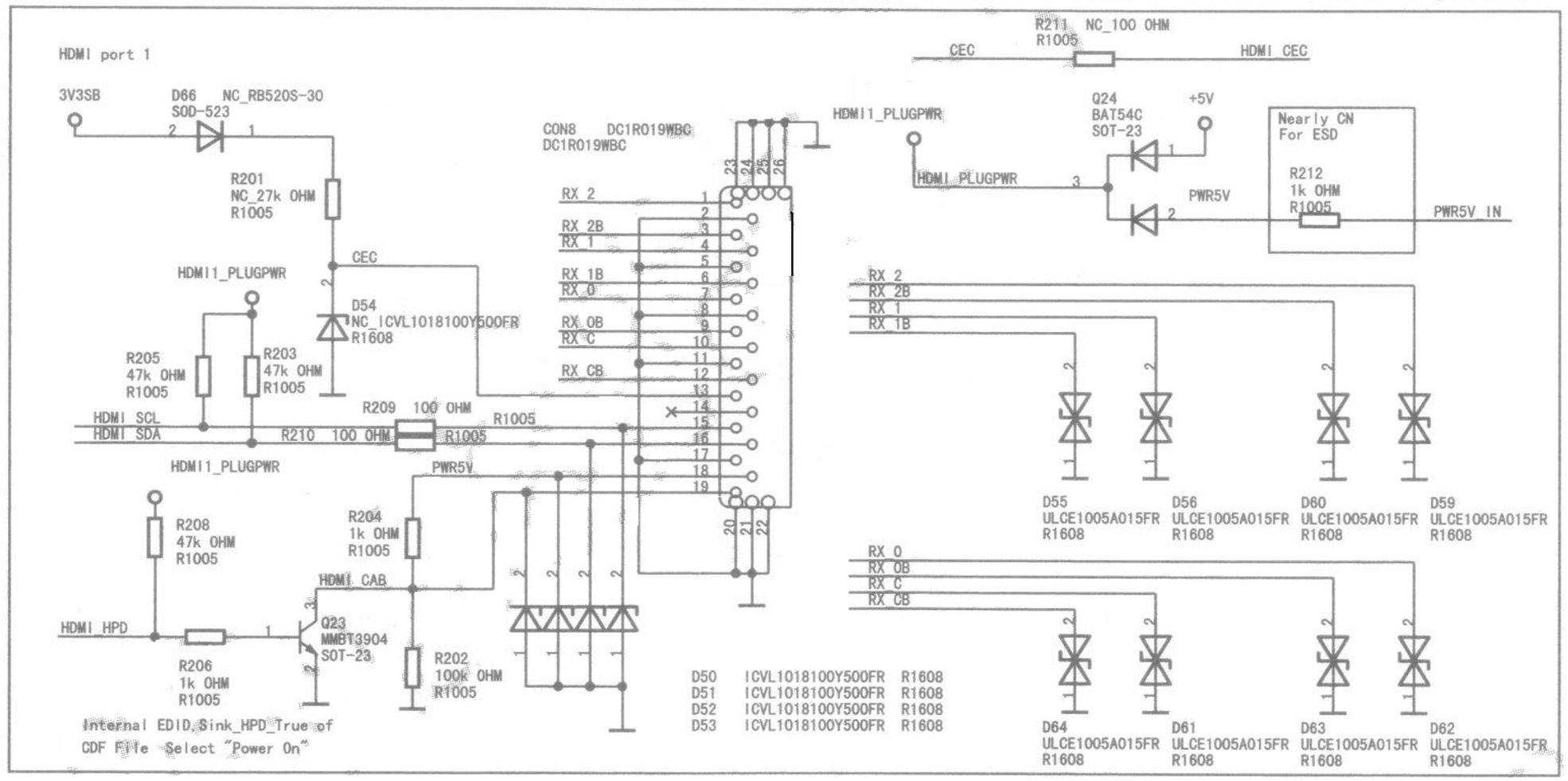

Audio
AMP-L
AMP-R
VGA_L_In
VGA_R_In
LO_L
LO_R

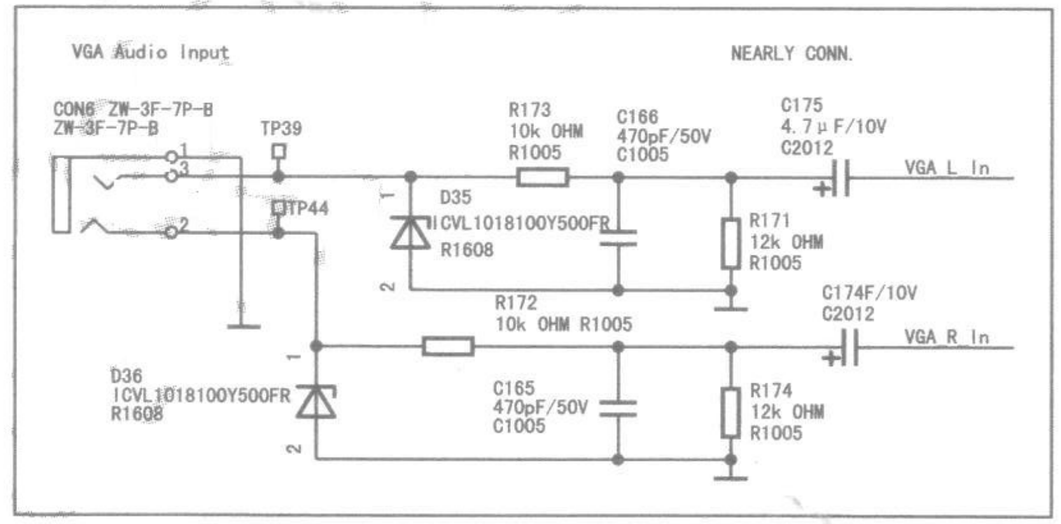

Video out
VDAC_OUT

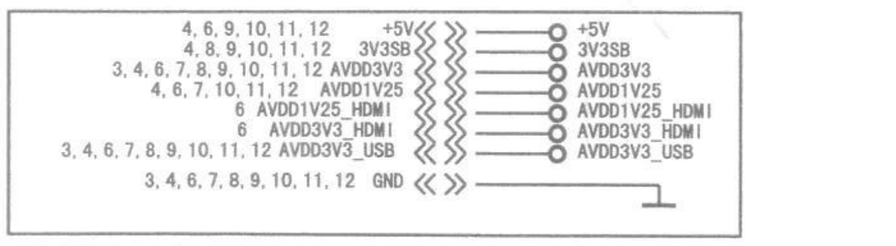

Audio Mute Control
AVOUT_MUTE

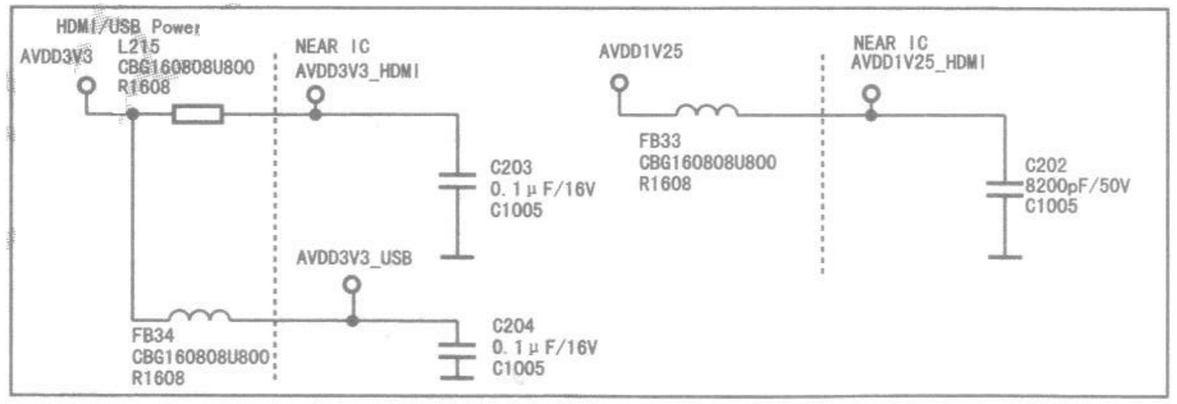

VGA Input
VSYNC
HSYNC
BP
SOG
GP
COM
RP
VGA_SCL/JTDI
VGA_SDA/JTMS

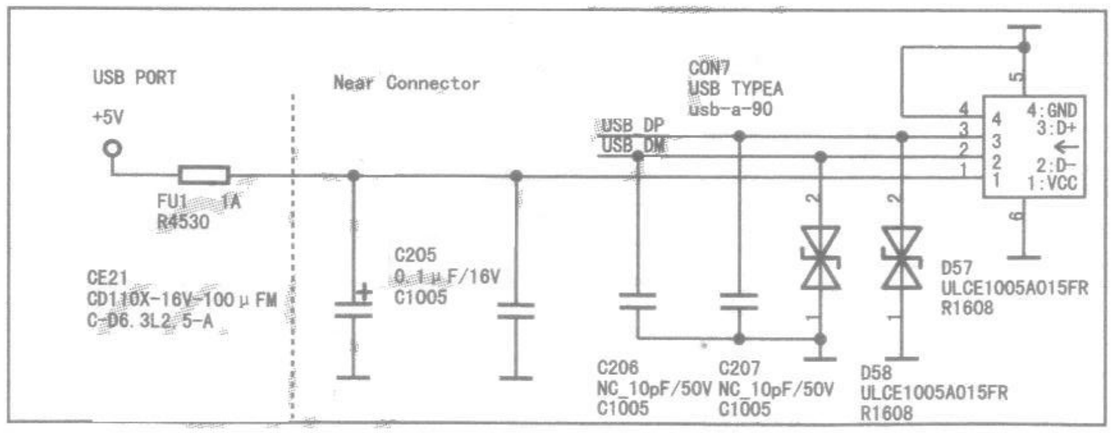

VGA UART
UORX-VGA
UOTX-VGA

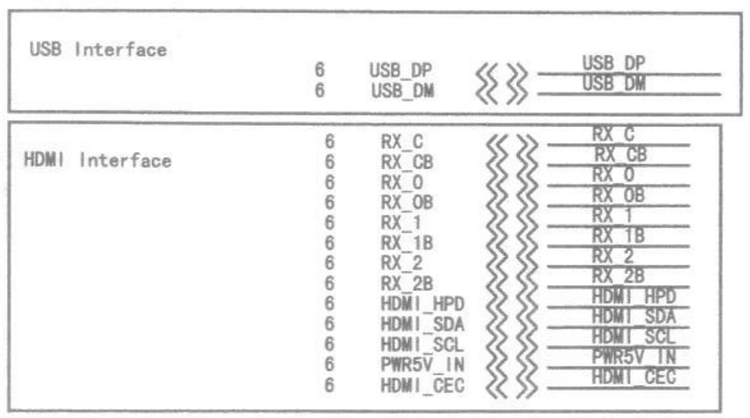

HDMI port 1
3V3SB
D66 NC_RB520S-30
HDMI1_PLUGPWR
CEC
HDMI SCL
HDMI SDA
HDMI_HPD
HDMI_CAB
PWR5V
R211 NC_100 OHM
HDMI_CEC
Nearly CN For ESD
PWR5V_IN
CON8 DC1R019WBC
Q24 BAT54C SOT-23
Q23 MMBT3904 SOT-23
D54 NC_ICVL1018100Y500FR R1608
Internal EDID Sink_HPD True of CDF File Select "Power On"


VGA Audio Input
NEARLY CONN.
CON6 ZW-3F-7P-B
TP39
TP44
VGA_L_In
VGA_R_In


+5V
3V3SB
AVDD3V3
AVDD1V25
AVDD1V25_HDMI
AVDD3V3_HDMI
AVDD3V3_USB
GND


HDMI/USB Power
AVDD3V3
NEAR IC
AVDD3V3_HDMI
AVDD1V25
NEAR IC
AVDD1V25_HDMI
AVDD3V3_USB


USB PORT
+5V
Near Connector
CON7
USB TYPEA
usb-a-90
USB_DP
USB_DM
4:GND
3:D+
2:D-
1:VCC
D57 ULCE1005A015FR R1608
D58 ULCE1005A015FR R1608


USB Interface
HDMI Interface
RX_C
RX_CB
RX_0
RX_0B
RX_1
RX_1B
RX_2
RX_2B
HDMI_HPD
HDMI_SDA
HDMI_SCL
PWR5V_IN
HDMI_CEC