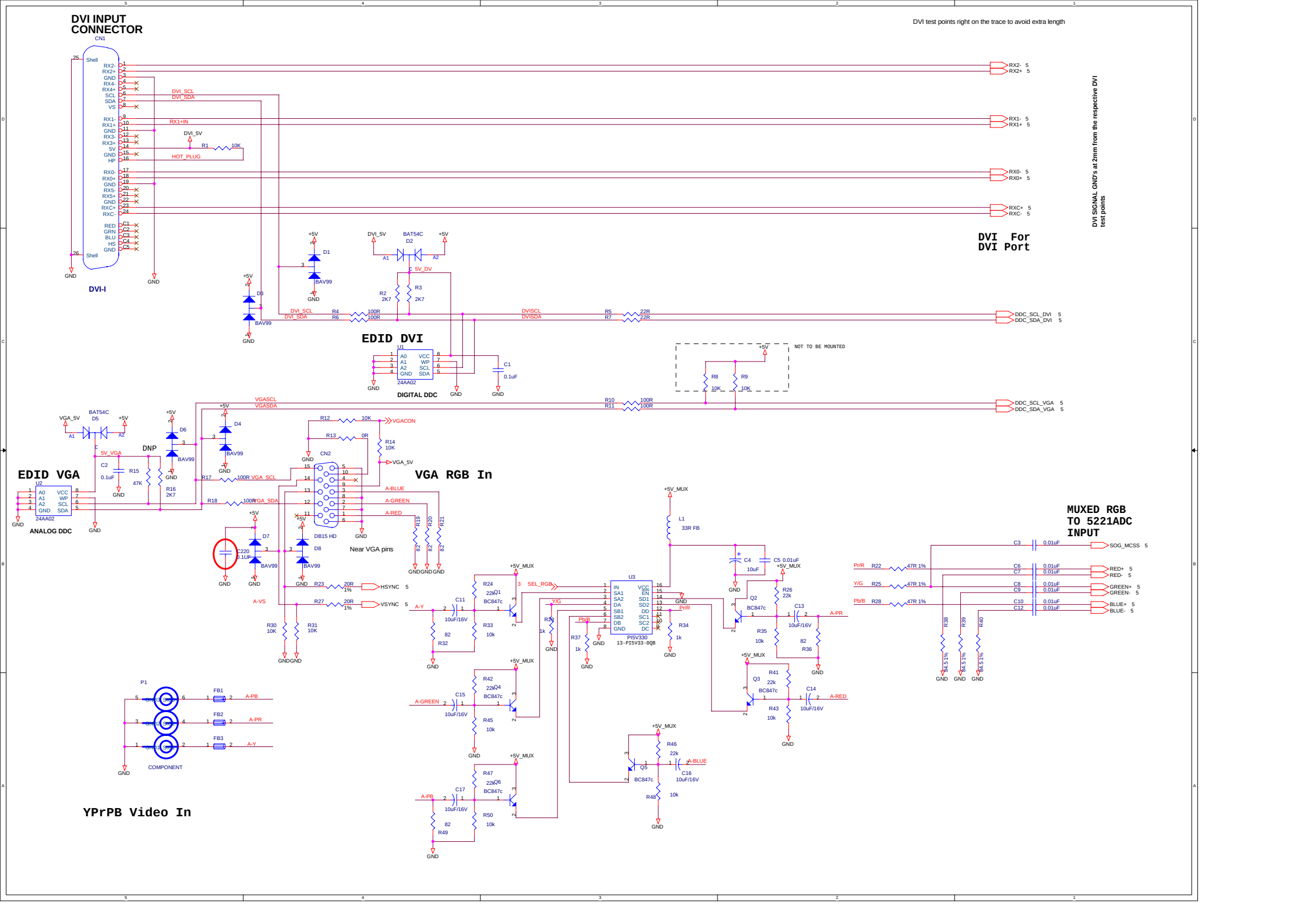
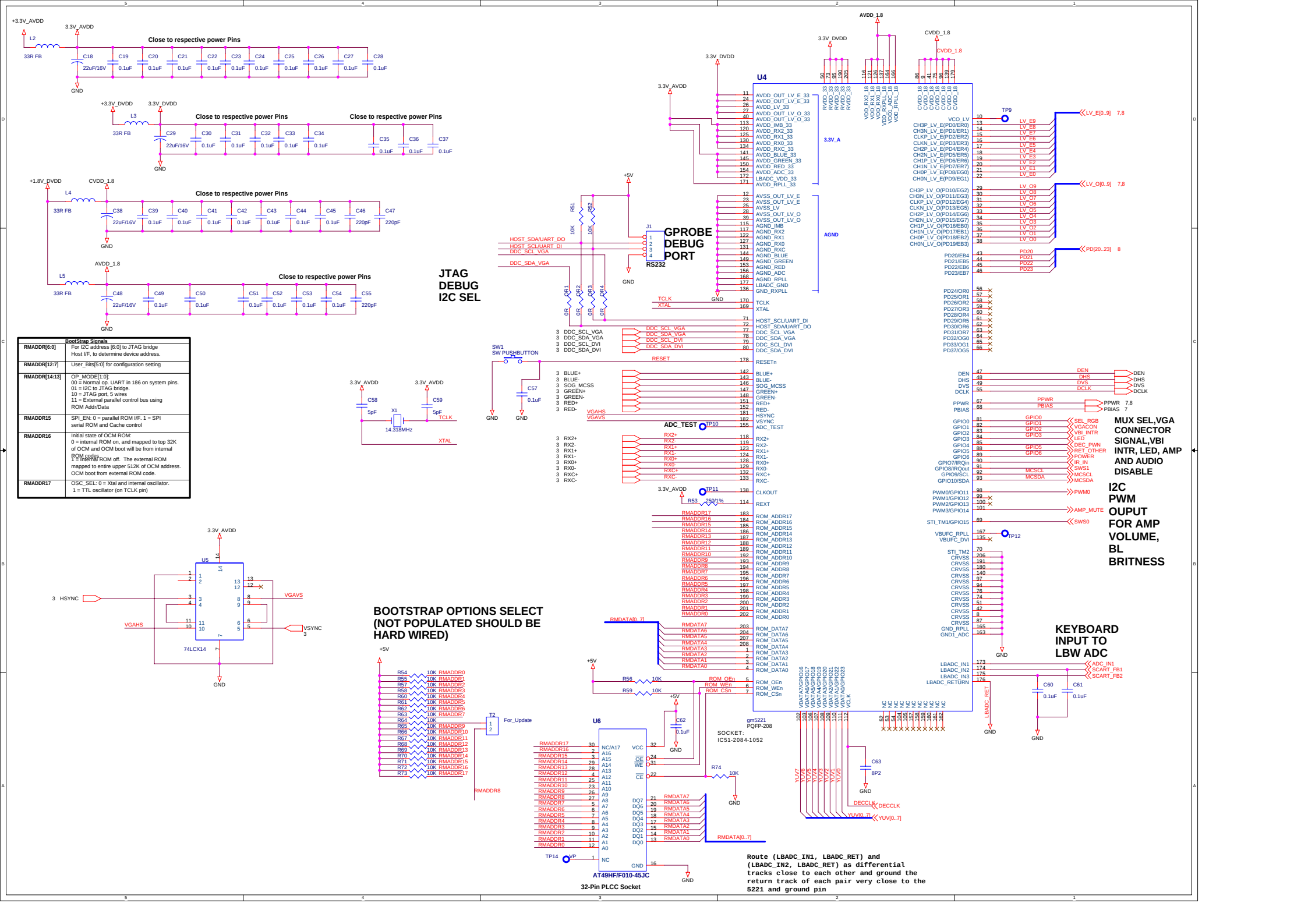
GM21 LCD TV

CONTENTS

Approval	Organization	Signature	Date
		CHY	04-05-17

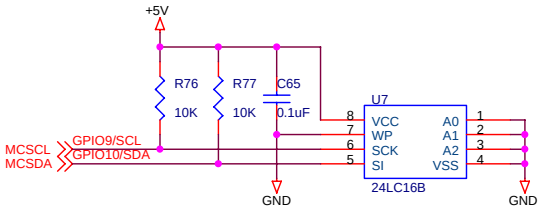

DVI INPUT CONNECTOR
DVI test points right on the trace to avoid extra length
DVI SIGNAL GND's at 2mm from the respective DVI test points
DVI For DVI Port
DVI-I
EDID DVI
DIGITAL DDC
EDID VGA
ANALOG DDC
DNP
VGA RGB In
Near VGA pins
MUXED RGB TO 5221ADC INPUT
YPrPB Video In
COMPONENT
NOT TO BE MOUNTED
DVI_SCL
DVI_SDA
DVI_5V
RX1+IN
HOT_PLUG
VGASCL
VGASDA
VGACON
VGA_5V
VGA_SCL
VGA_SDA
A-BLUE
A-GREEN
A-RED
HSYNC
VSYNC
A-VS
SEL_RGB
A-Y
A-PB
A-PR
+5V_MUX
PI5V330
13-PI5V33-00B
24AA02
BAT54C
BAV99
BC847c
DB15 HD



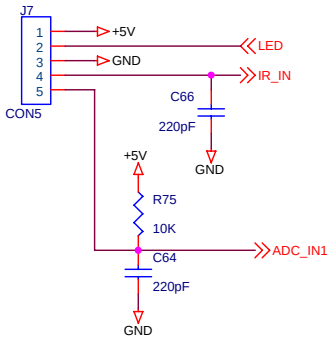
BootStrap Signals	
RMADDR[6:0]	For I2C address [6:0] to JTAG bridge Host I/F, to determine device address.
RMADDR[12:7]	User_Bits[5:0] for configuration setting
RMADDR[14:13]	OP_MODE[1:0]: 00 = Normal op. UART in 186 on system pins. 01 = I2C to JTAG bridge. 10 = JTAG port, 5 wires 11 = External parallel control bus using ROM Addr/Data
RMADDR15	SPI_EN: 0 = parallel ROM I/F. 1 = SPI serial ROM and Cache control
RMADDR16	Initial state of OCM ROM: 0 = internal ROM on, and mapped to top 32K of OCM and OCM boot will be from internal ROM codes. 1 = Internal ROM off. The external ROM mapped to entire upper 512K of OCM address. OCM boot from external ROM code.
RMADDR17	OSC_SEL: 0 = Xtal and internal oscillator. 1 = TTL oscillator (on TCLK pin)

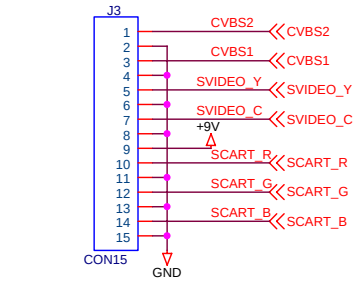
Keypad INTERFACE

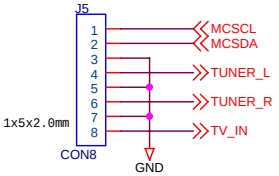
NV RAM INTERFACE

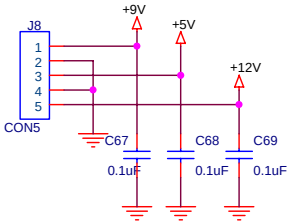


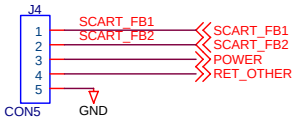
IR REMOTE SENSOR INTERFACE



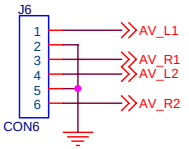


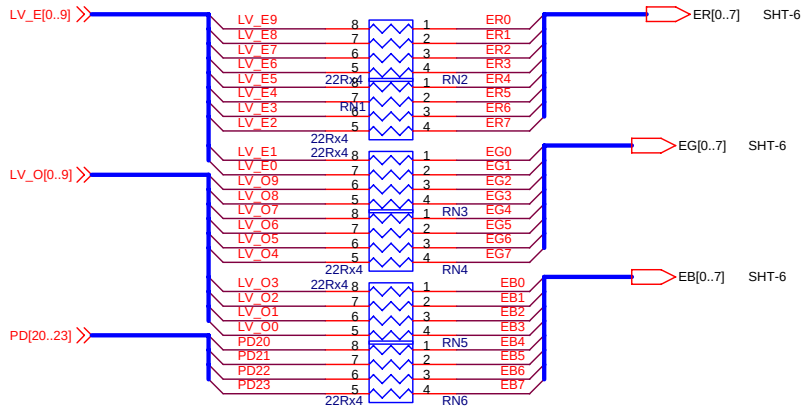


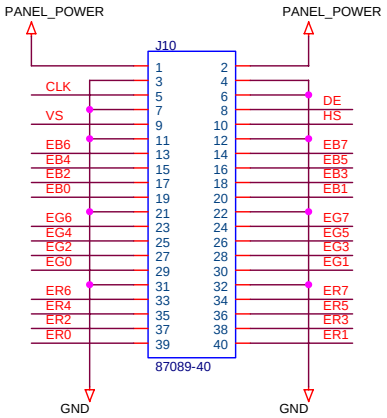


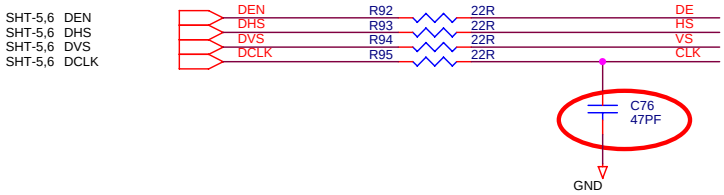


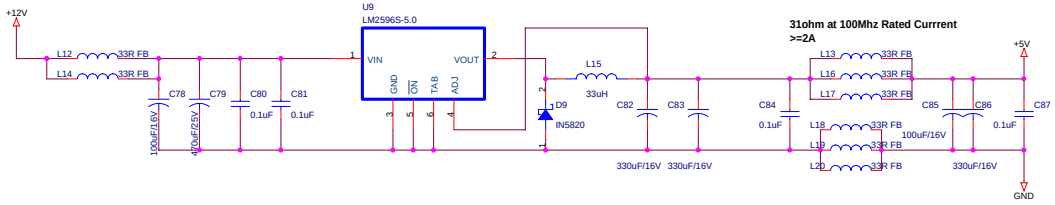
EXTERAL AV BOARD INTERFACE

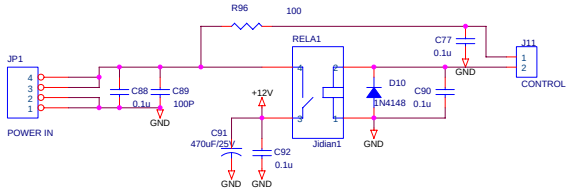


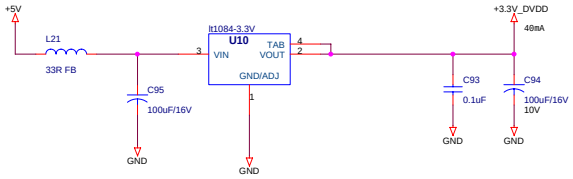

LV_E[0..9]
LV_O[0..9]
PD[20..23]
LV_E9
LV_E8
LV_E7
LV_E6
LV_E5
LV_E4
LV_E3
LV_E2
LV_E1
LV_E0
LV_O9
LV_O8
LV_O7
LV_O6
LV_O5
LV_O4
LV_O3
LV_O2
LV_O1
LV_O0
PD20
PD21
PD22
PD23
22Rx4
RN1
RN2
RN3
RN4
RN5
RN6
ER0
ER1
ER2
ER3
ER4
ER5
ER6
ER7
EG0
EG1
EG2
EG3
EG4
EG5
EG6
EG7
EB0
EB1
EB2
EB3
EB4
EB5
EB6
EB7
ER[0..7]
EG[0..7]
EB[0..7]
SHT-6

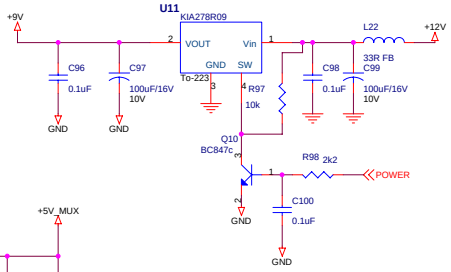

PANEL_POWER
PANEL_POWER
J10
CLK
VS
EB6
EB4
EB2
EB0
EG6
EG4
EG2
EG0
ER6
ER4
ER2
ER0
DE
HS
EB7
EB5
EB3
EB1
EG7
EG5
EG3
EG1
ER7
ER5
ER3
ER1
87089-40
GND
GND

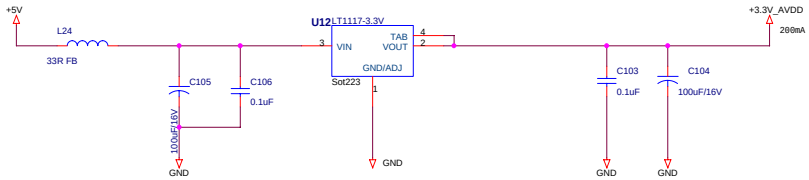

SHT-5,6 DEN
SHT-5,6 DHS
SHT-5,6 DVS
SHT-5,6 DCLK
DEN
DHS
DVS
DCLK
R92
R93
R94
R95
22R
DE
HS
VS
CLK
C76
47PF
GND

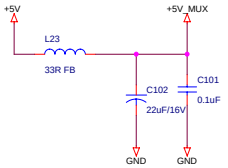

+12V
U9
LM2596S-5.0
L12 33R FB
L14 33R FB
C78 100uF/16V
C79 470uF/25V
C80 0.1uF
C81 0.1uF
VIN
VOUT
GND
ON
TAB
ADJ
L15 33uH
D9 IN5820
C82 330uF/16V
C83 330uF/16V
31ohm at 100Mhz Rated Currrent
>=2A
L13 33R FB
L16 33R FB
L17 33R FB
L18 33R FB
L19 33R FB
L20 33R FB
C84 0.1uF
C85 100uF/16V
C86 0.1uF
C87 330uF/16V
+5V
GND

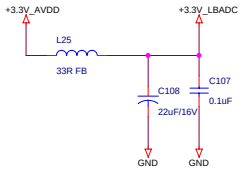

JP1
POWER IN
R96 100
RELA1
Jidian1
C88 0.1u
C89 100P
C77 0.1u
J11
CONTROL
D10 1N4148
C90 0.1u
+12V
C91 470uF/25V
C92 0.1u
GND

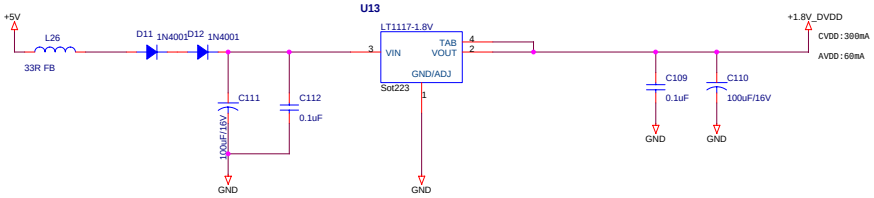

+5V
L21 33R FB
U10
lt1084-3.3V
VIN
VOUT
TAB
GND/ADJ
C95 100uF/16V
C93 0.1uF
C94 100uF/16V
10V
+3.3V_DVDD
40mA
GND

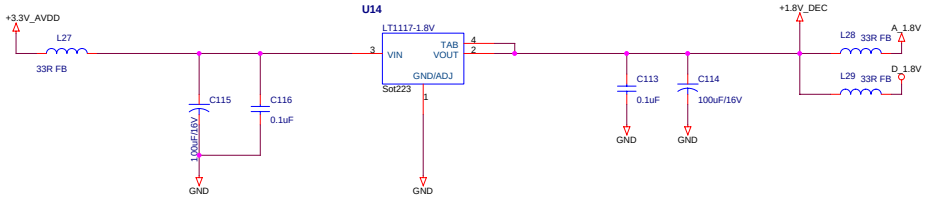

U11
KIA278R09
+9V
C96 0.1uF
C97 100uF/16V
10V
VOUT
Vin
GND
SW
To-223
L22 33R FB
+12V
C98 0.1uF
C99 100uF/16V
10V
R97 10k
Q10
BC847c
R98 2k2
POWER
C100 0.1uF
GND

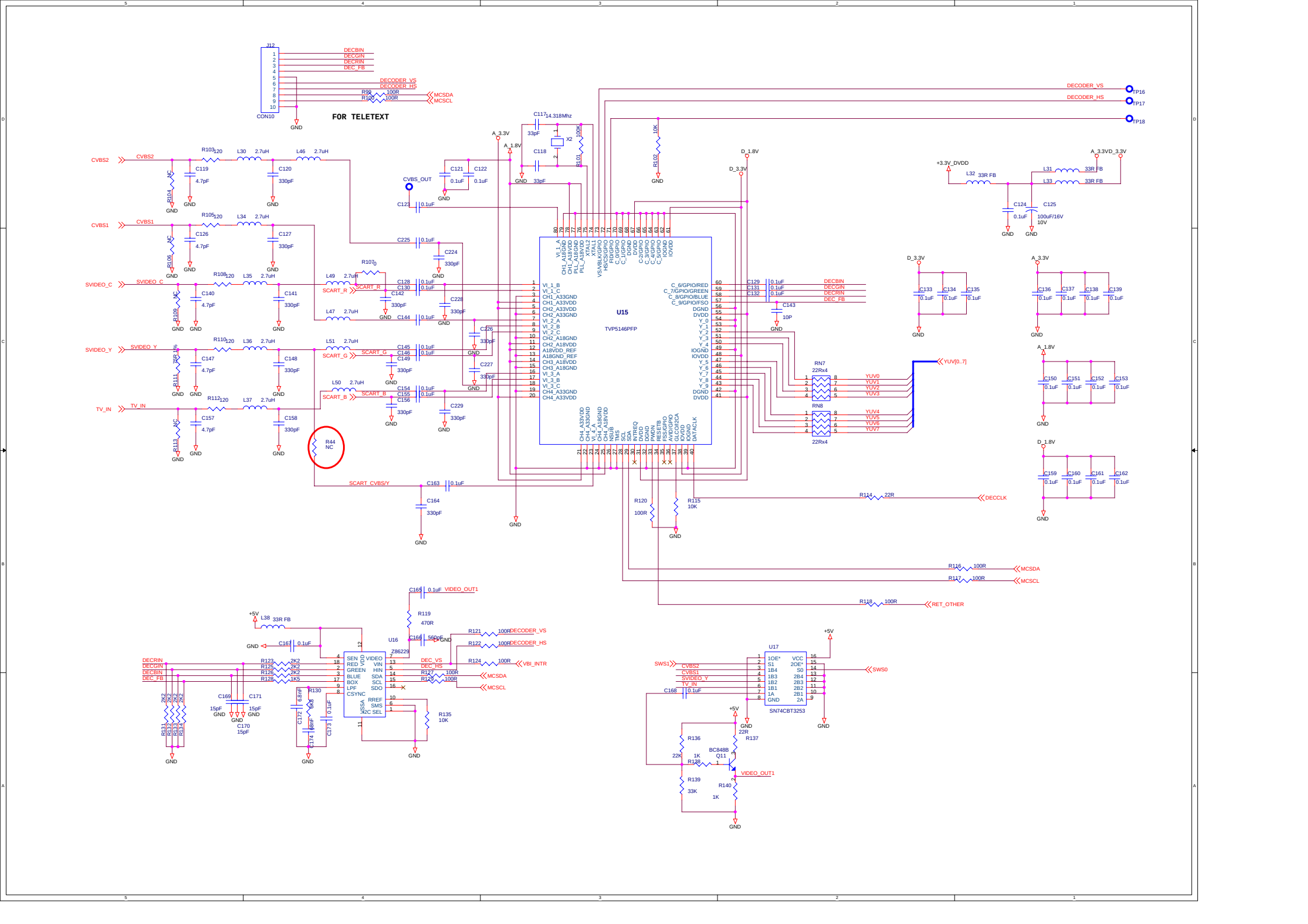

+5V
L24 33R FB
U12
LT1117-3.3V
VIN
VOUT
TAB
GND/ADJ
Sot223
C105 100uF/16V
C106 0.1uF
C103 0.1uF
C104 100uF/16V
+3.3V_AVDD
200mA
GND

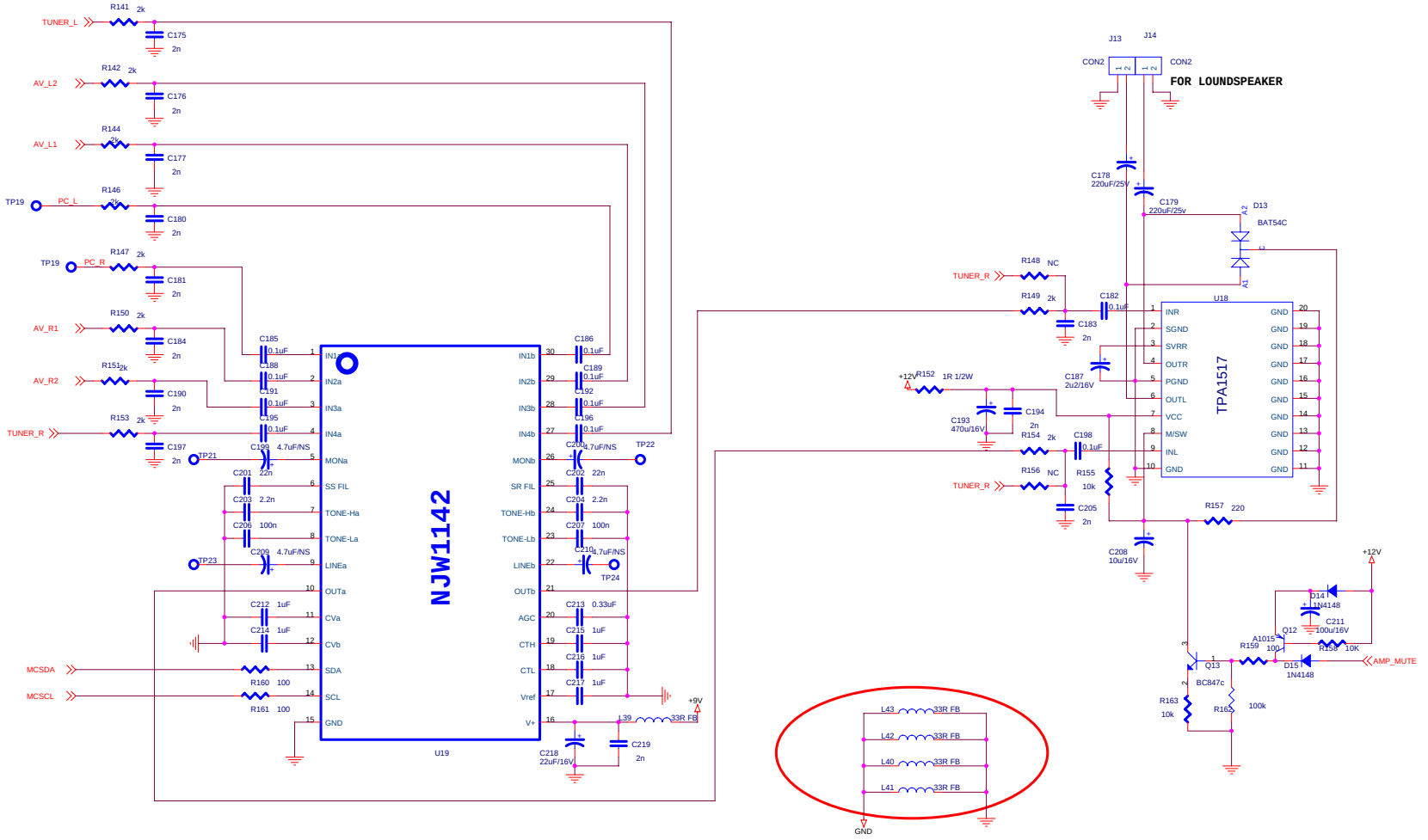

+5V
L23 33R FB
+5V_MUX
C102 22uF/16V
C101 0.1uF
GND


+3.3V_AVDD
L25 33R FB
+3.3V_LBADC
C108 22uF/16V
C107 0.1uF
GND


U13
+5V
L26 33R FB
D11 1N4001
D12 1N4001
LT1117-1.8V
VIN
VOUT
TAB
GND/ADJ
Sot223
C111 100uF/16V
C112 0.1uF
C109 0.1uF
C110 100uF/16V
+1.8V_DVDD
CVDD:300mA
AVDD:60mA
GND


U14
+3.3V_AVDD
L27 33R FB
LT1117-1.8V
VIN
VOUT
TAB
GND/ADJ
Sot223
C115 100uF/16V
C116 0.1uF
C113 0.1uF
C114 100uF/16V
+1.8V_DEC
L28 33R FB
A_1.8V
L29 33R FB
D_1.8V
GND


J12
CON10
DECBIN
DECGIN
DECRIN
DEC_FB
DECODER_VS
DECODER_HS
MCSDA
MCSCL
FOR TELETEXT
U15
TVP5146PFP
CVBS2
CVBS1
SVIDEO_C
SVIDEO_Y
TV_IN
CVBS_OUT
SCART_R
SCART_G
SCART_B
SCART_CVBS/Y
R44
NC
U16
Z86229
U17
SN74CBT3253
SWS1
SWS0
VBI_INTR
VIDEO_OUT1
RET_OTHER
DECCLK
YUV[0..7]
TP16
TP17
TP18
A_3.3V
A_1.8V
D_3.3V
D_1.8V
+3.3V_DVDD
A_3.3VD_3.3V
+5V
GND



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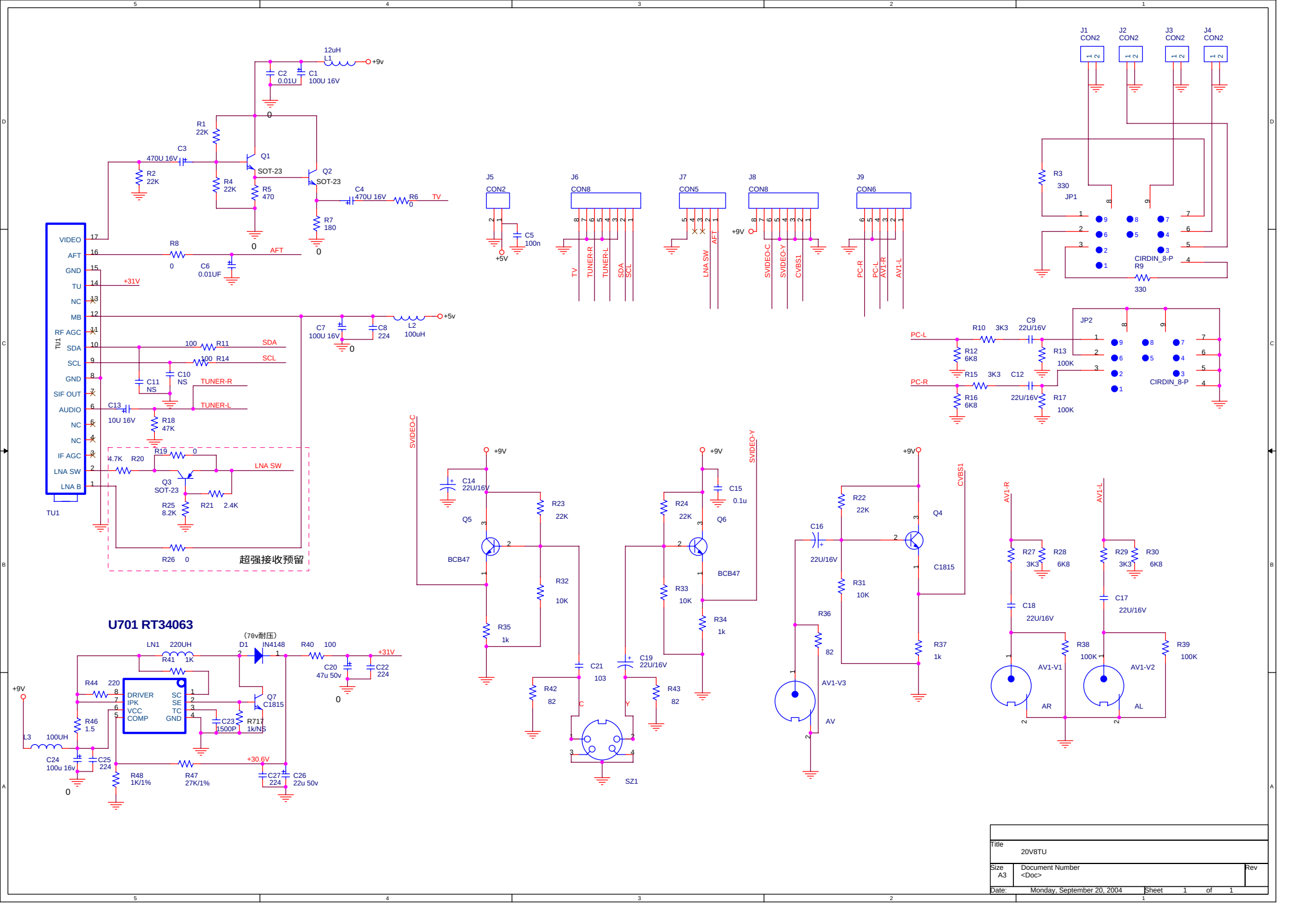

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