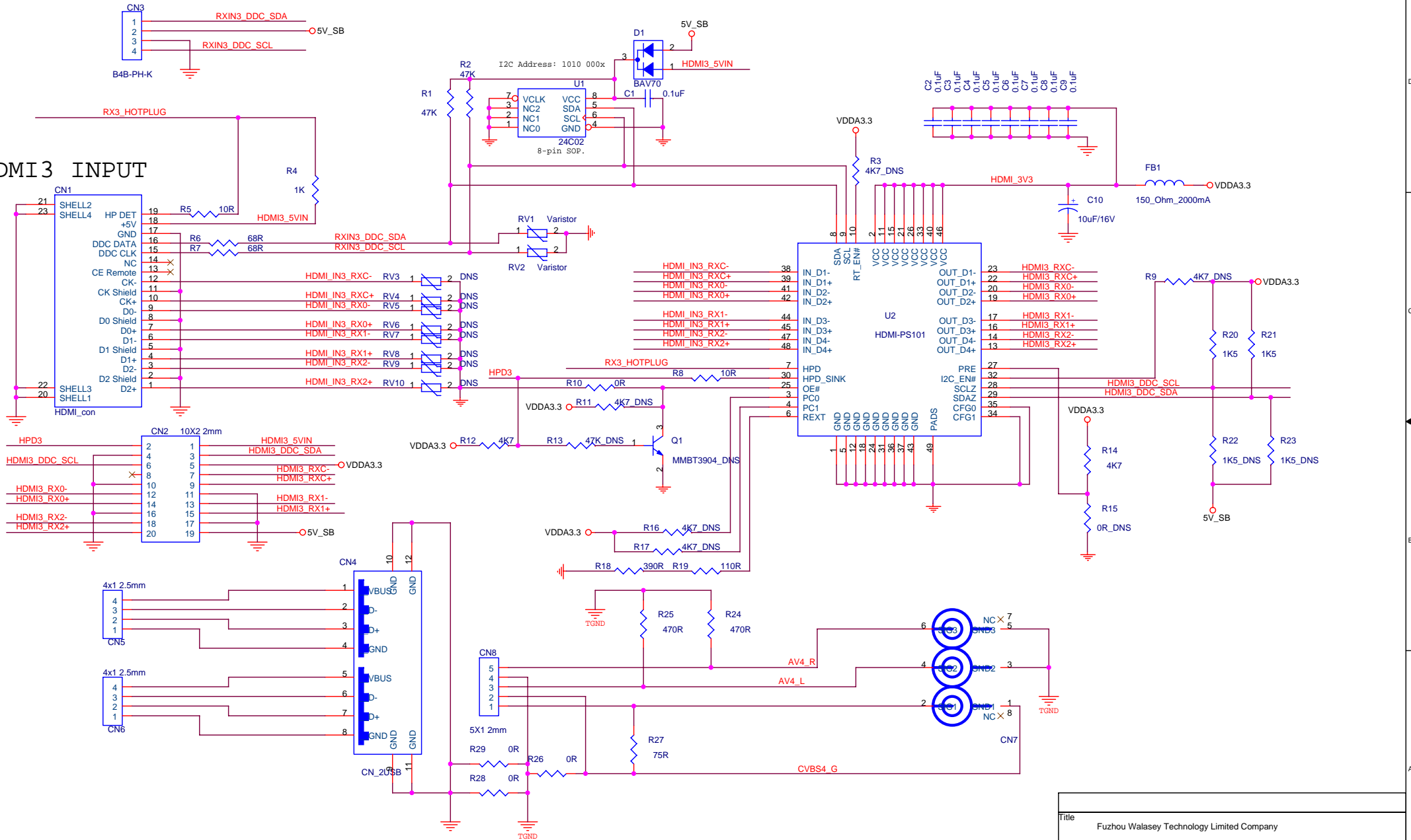


# HDMI 3 INPUT



Title		
Fuzhou Walasey Technology Limited Company		
Size	Document Number	Rev
B	HDMI3&CEAV&USB	R1.0
Date:	Tuesday, May 22, 2007	Sheet 1 of 1

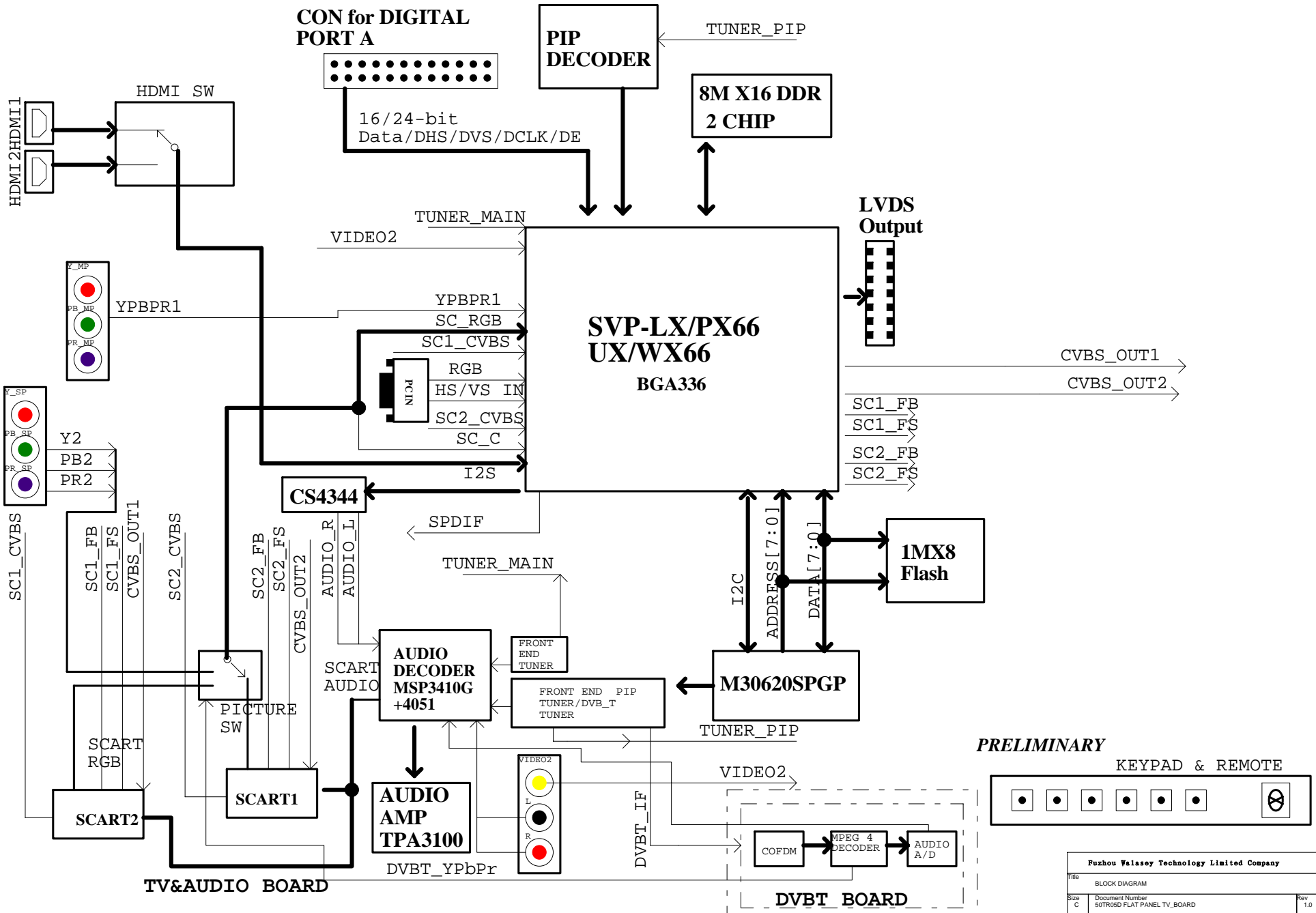
**50TR05D REFERENCE BOARD**  
 THE UNDERSIGNED APPROVE THE SCHEMATICS OF THE 50TR05D BOARD

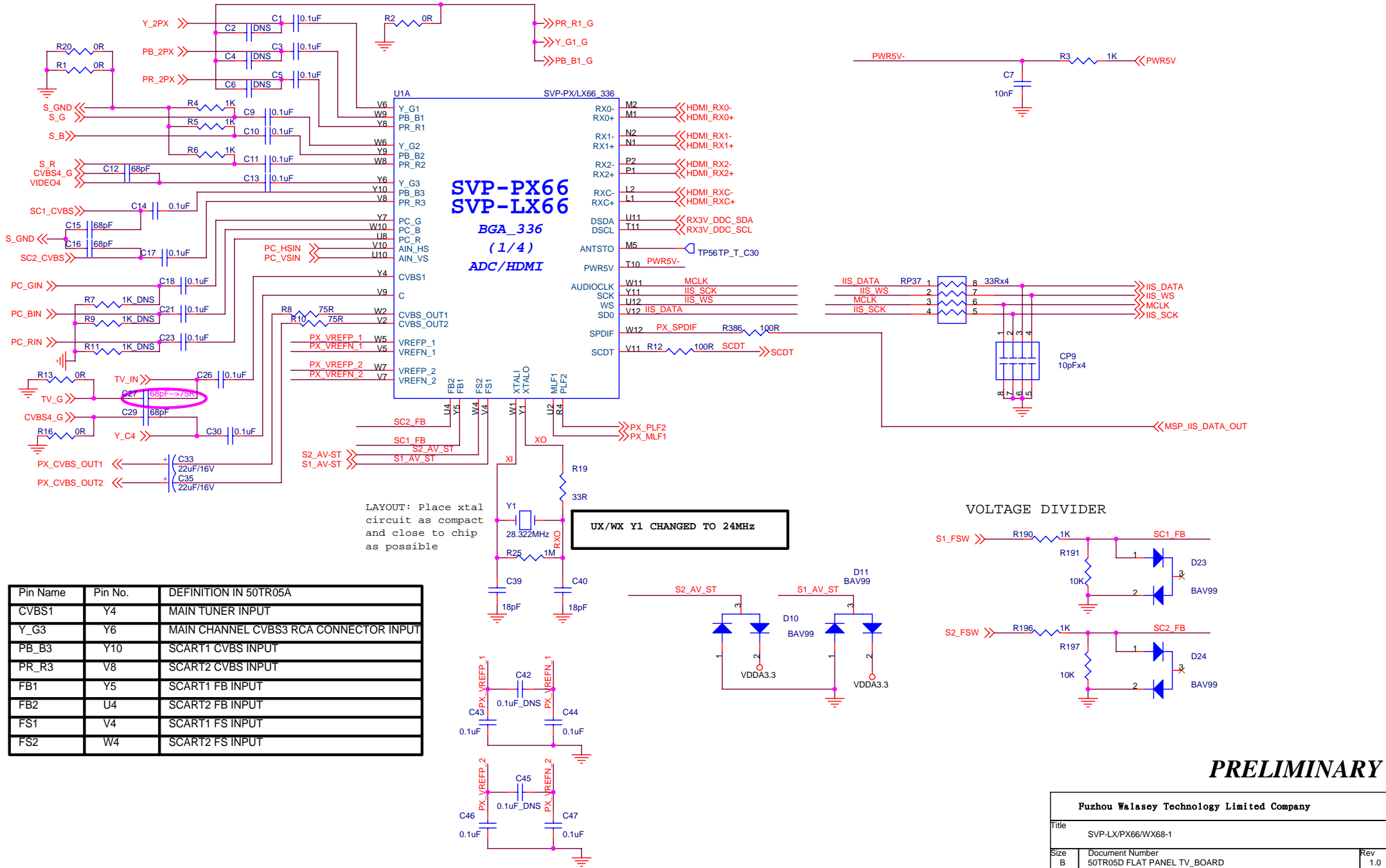
Page	Content	Page	Content
01		31	
02		32	
03		33	
04		34	
05		35	
06		36	
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<b>Fuzhou Walasey Technology Limited Company</b>			
Title COVER			
Size B	Document Number 50TR05D FLAT PANEL TV_BOARD	Rev 1.0	
Date:	Tuesday, May 29, 2007	Sheet	1 of 34



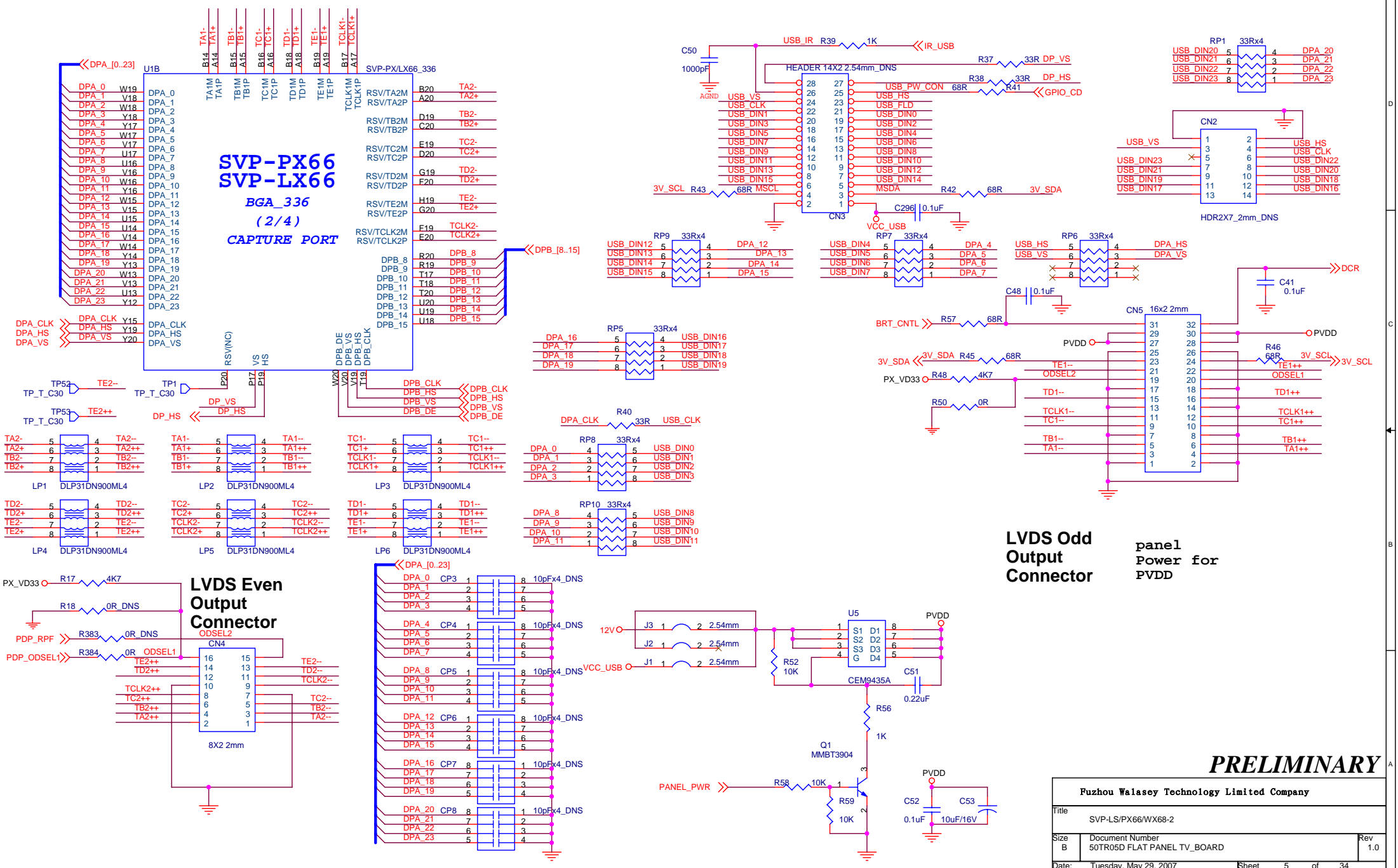
**50TR05D: SVP-LX/PX-66 UX/WX-66(BGA336) BOARD(ALL IN ONE)**





**PRELIMINARY**

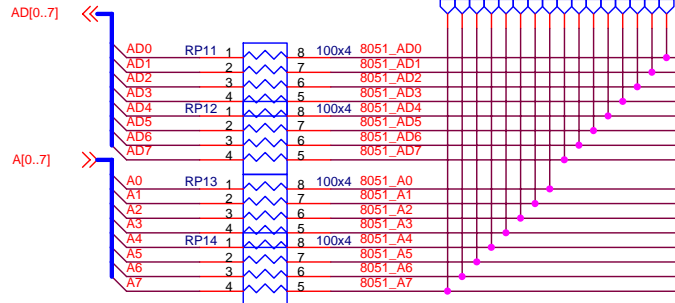
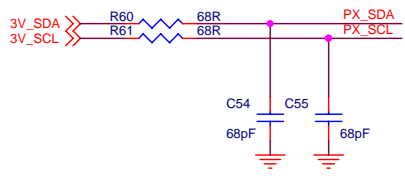
Fuzhou Walasey Technology Limited Company		
Title	SVP-LX/PX66/WX68-1	
Size	Document Number	Rev
B	50TR05D FLAT PANEL TV_BOARD	1.0
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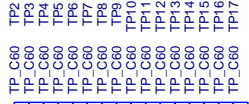
**LVDS Odd Output Connector**  
**panel Power for PVDD**

**PRELIMINARY**

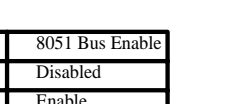
Fuzhou Walasey Technology Limited Company		
Title	SVP-LS/PX66/WX68-2	
Size B	Document Number	Rev
	50TR05D FLAT PANEL TV_BOARD	1.0
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**1.50mm Round Pad**



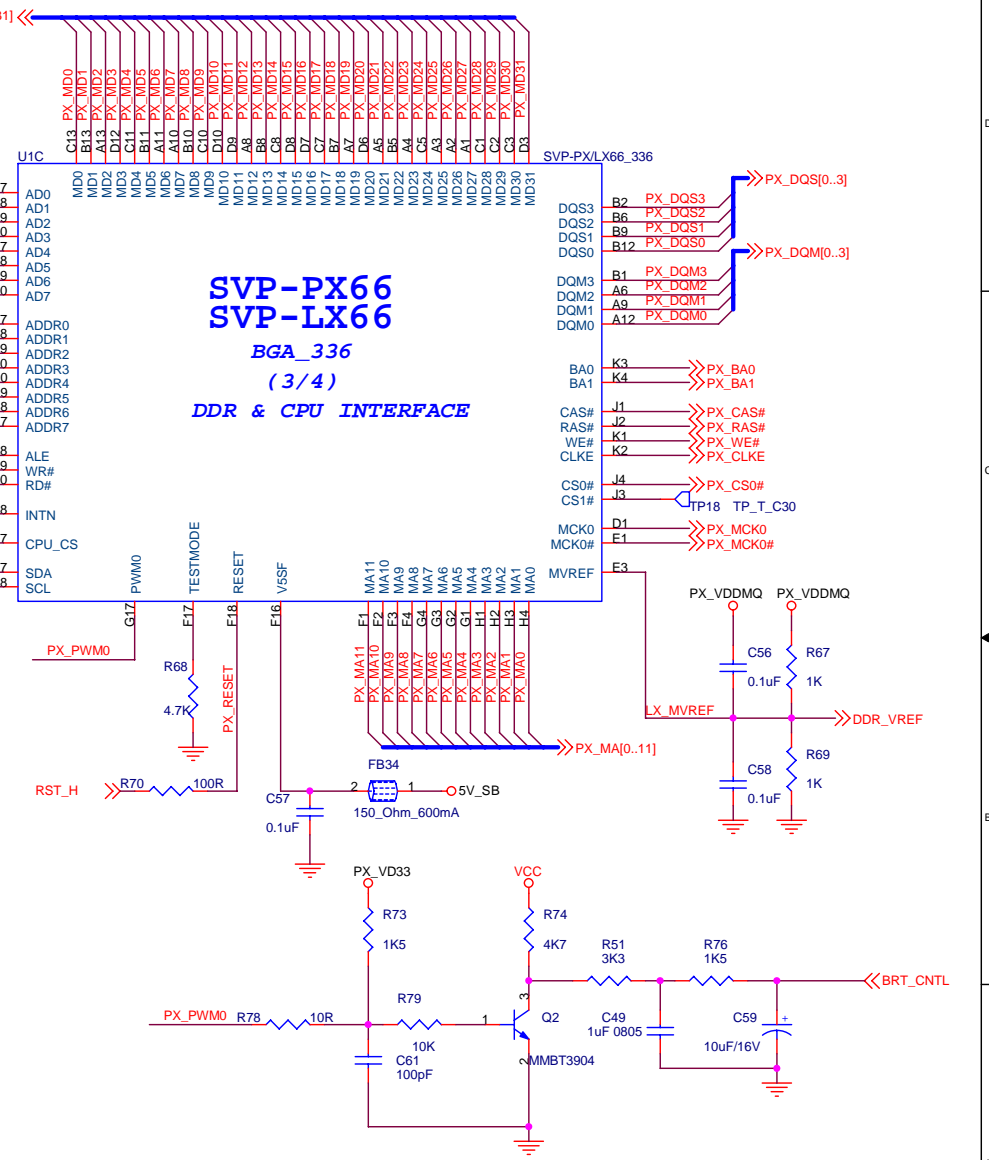
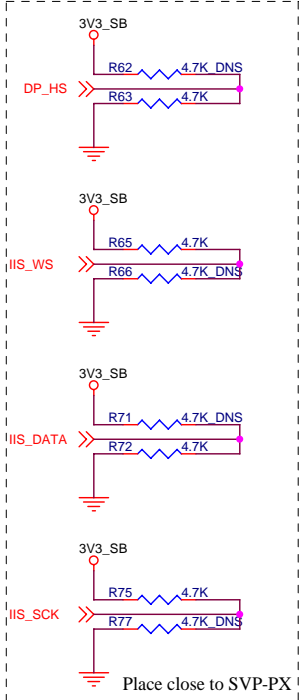
**1.50mm Round Pad**



CPU_CS	8051 Bus Enable
0	Disabled
1	Enable

**Test pads for DDR**

- PX\_MCK0 TP19 TP\_T\_C30
- PX\_DQS2 TP20 TP\_T\_C30
- PX\_DOM2 TP26 TP\_T\_C30
- PX\_MD0 TP27 TP\_T\_C30
- PX\_MD18 TP28 TP\_T\_C30
- PX\_CAS# TP29 TP\_T\_C30
- PX\_RAS# TP30 TP\_T\_C30
- PX\_CS0# TP31 TP\_T\_C30
- PX\_WE# TP32 TP\_T\_C30
- TP33 TP\_T\_C30
- TP34 TP\_T\_C30
- TP35 TP\_T\_C30



**SVP-PX66  
SVP-LX66  
BGA\_336  
(3/4)  
DDR & CPU INTERFACE**

Pin Name	Pin No.	1 (HIGH)	0 (LOW)
DP_HS	L20	MPU in A/D Multiplex Mode	MPU in A/D Separate Mode
WS	U12	Use ALE to latch Address	Use Falling Edges of WR# & RD# to latch Address
SD0	V12	Use Rising Edge of WR# to latch data	Use Falling Edge of WR# to latch data
SCK	Y11	I2C Slave Address = 0x7E/7F	I2C Slave Address = 0x7C/7D

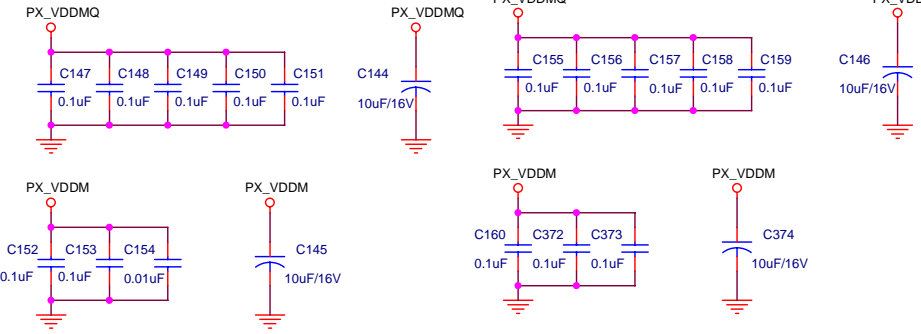
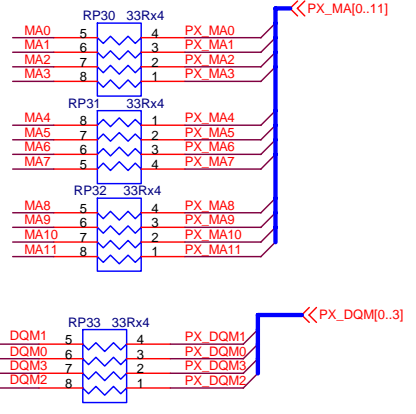
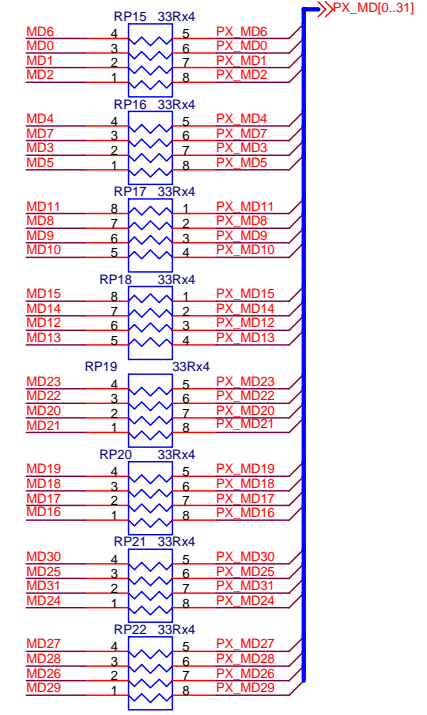
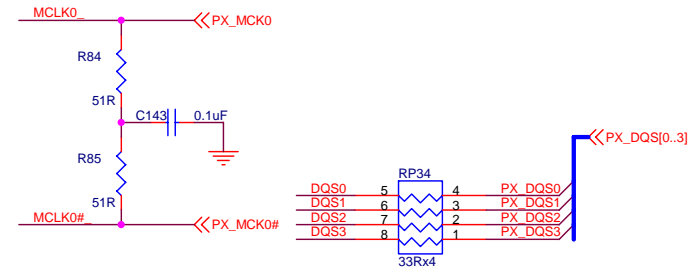
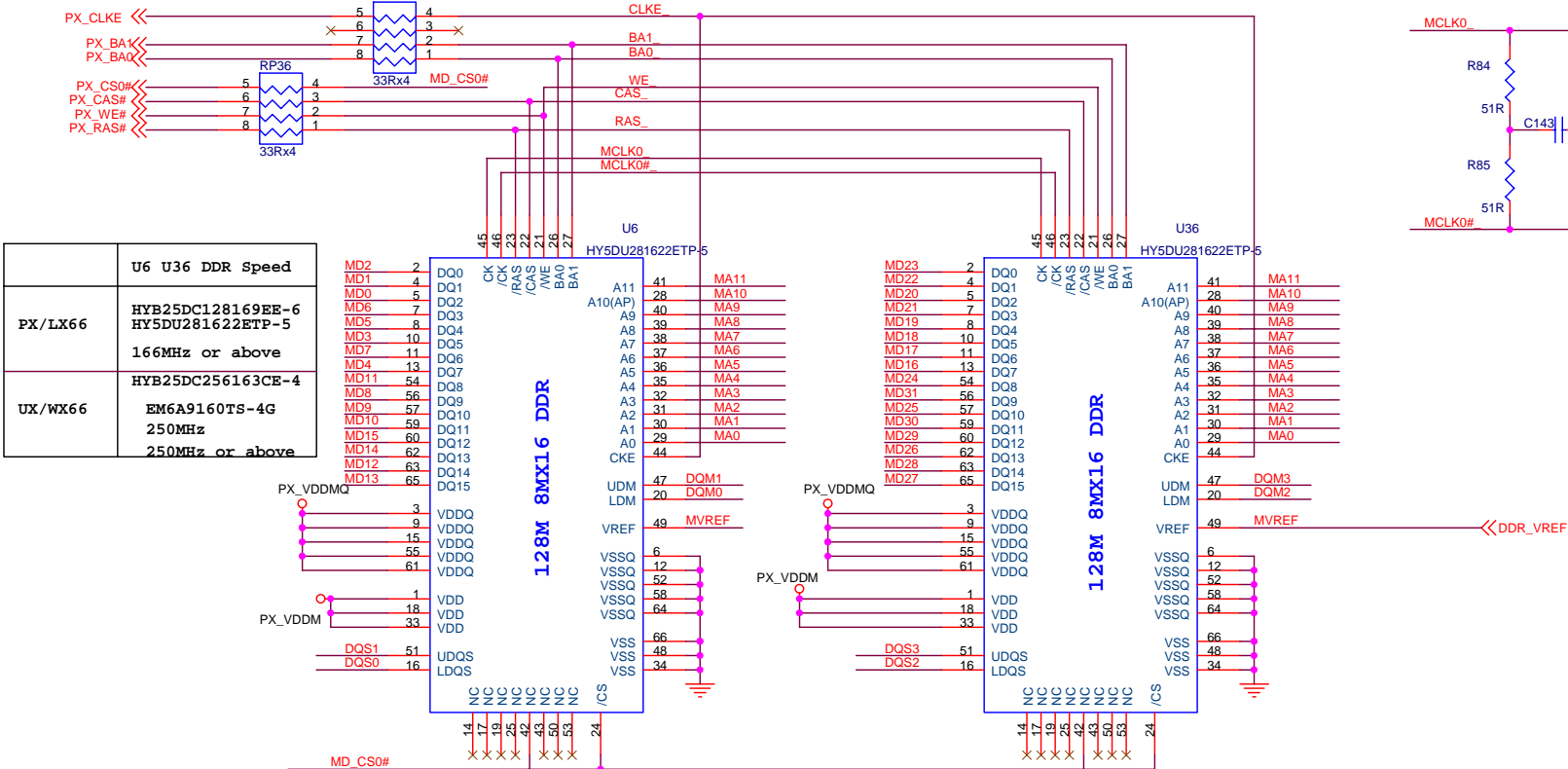
**PRELIMINARY**

<b>Fuzhou Walasey Technology Limited Company</b>		
Title	SVP-LX/PX66/WX68-3	
Size B	Document Number	Rev
	50TR05D FLAT PANEL TV_BOARD	1.0
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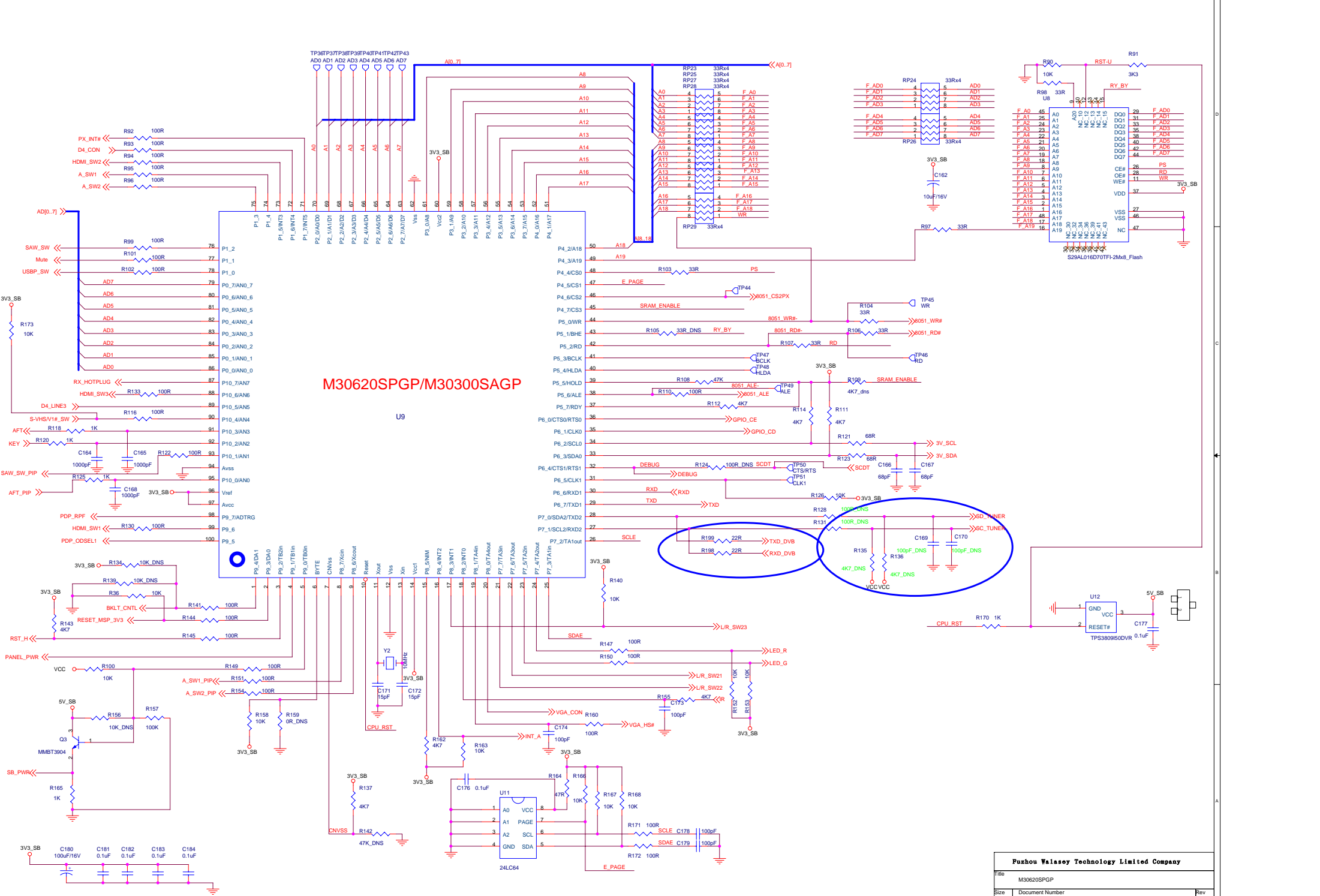


	<b>U6 U36 DDR Speed</b>
<b>PX/LX66</b>	HYB25DC128169EE-6 HY5DU281622ETP-5  166MHz or above
<b>UX/WX66</b>	EM6A9160TS-4G  250MHz 250MHz or above



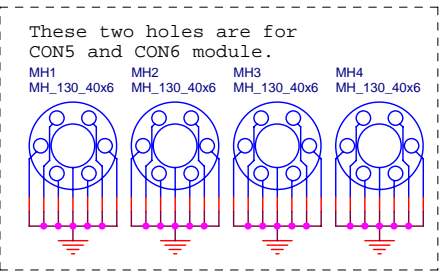
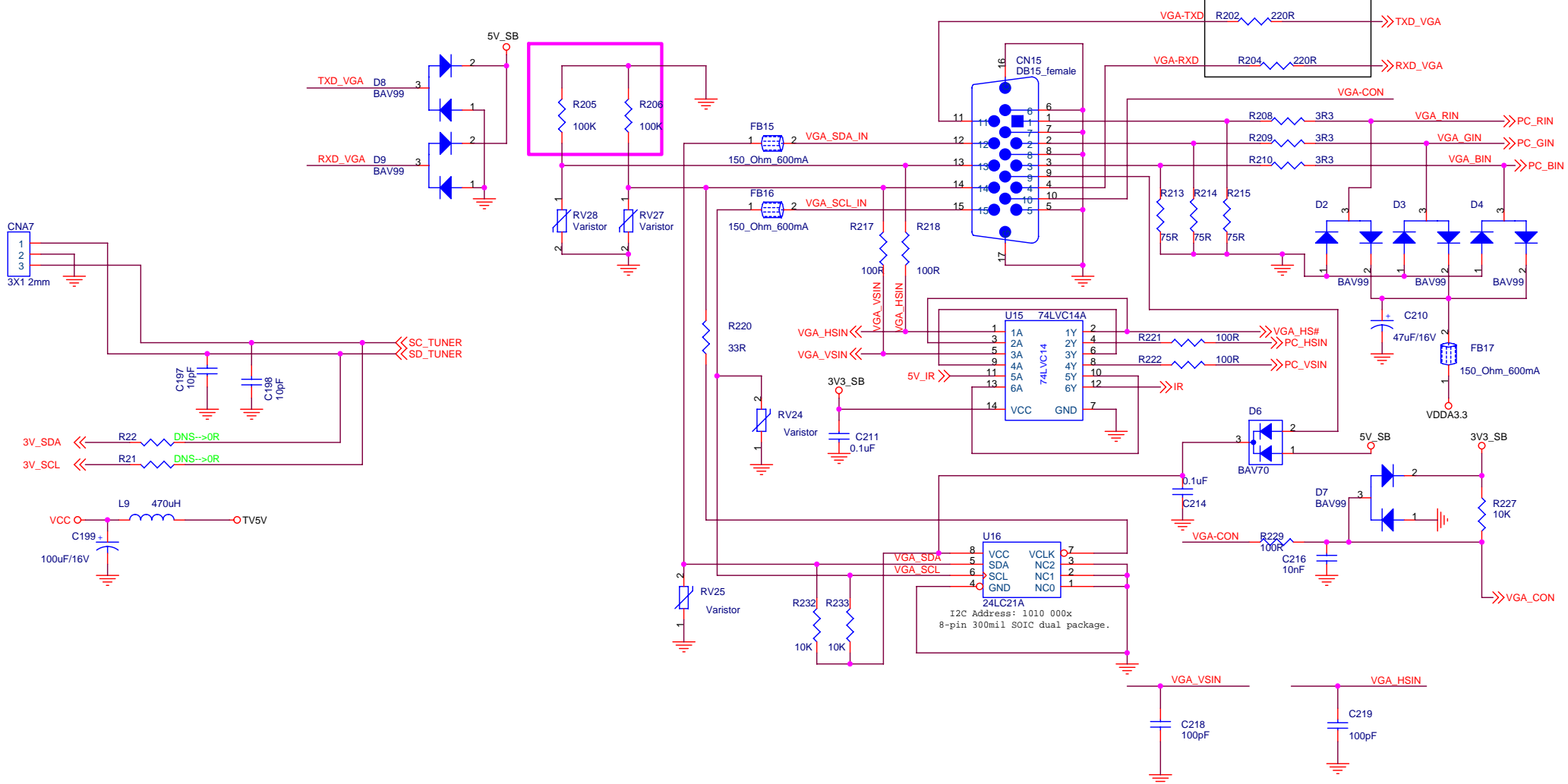
SDRAM DECOUPLING CAPACITORS

<b>Fuzhou Walasey Technology Limited Company</b>		
Title: SVP-LX/PX66/WX68_8MX16_DDR		
Size: B	Document Number: 50TR05D FLAT PANEL TV_BOARD	Rev: 1.0
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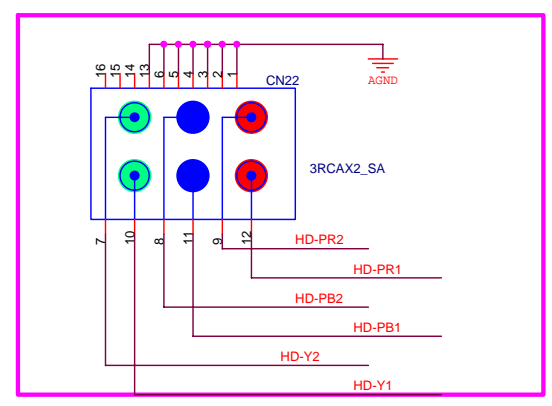
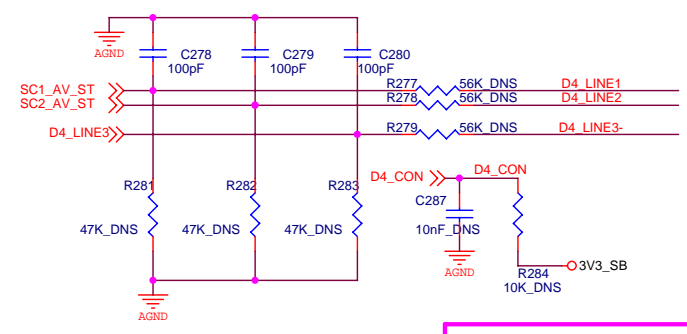
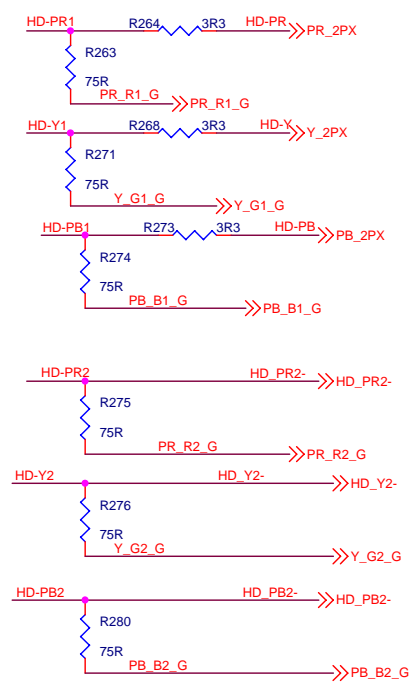
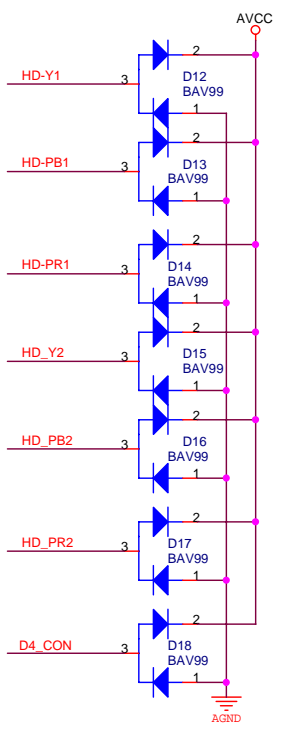
**M30620SPGP/M30300SAGP**

Fuzhou Walsey Technology Limited Company			
File	M30620SPGP		
Size	Document Number	50TR05D FLAT PANEL TV_BOARD	
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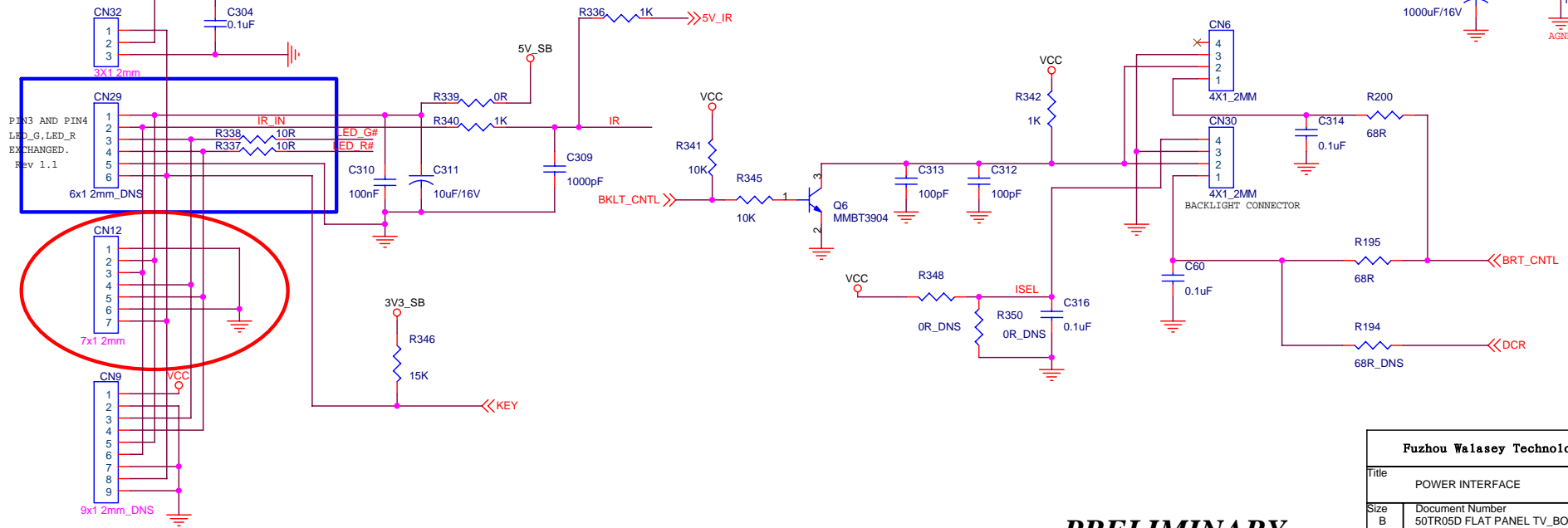
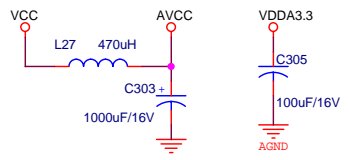
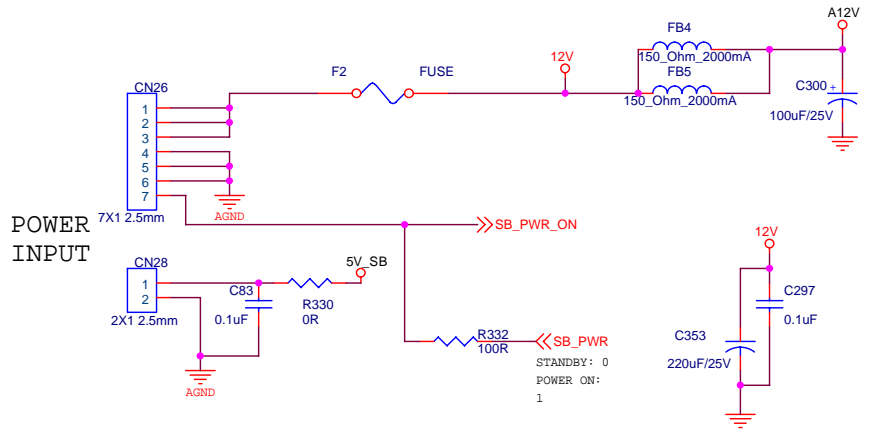
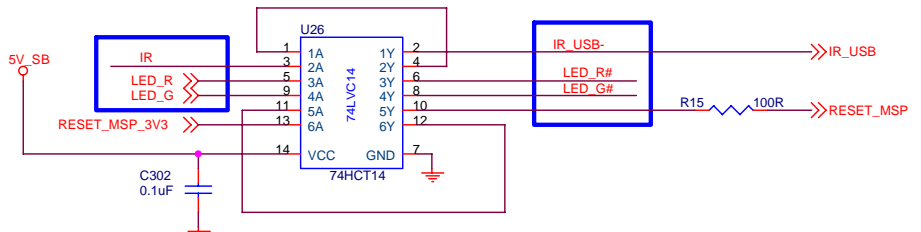
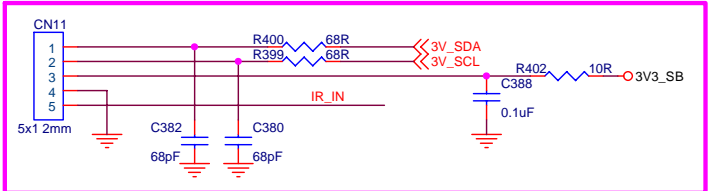
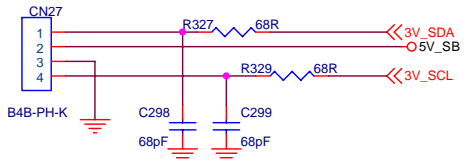
**PRELIMINARY**

Fuzhou Walasey Technology Limited Company		
Title	INPUT/OUTPUT_1	
Size	Document Number	Rev
B	50TR05D FLAT PANEL TV_BOARD	1.0
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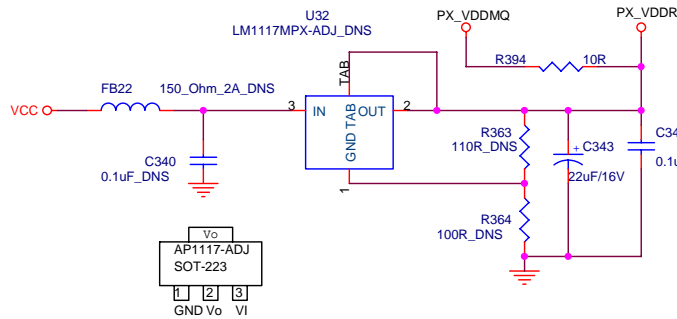
Fuzhou Walasey Technology Limited Company		
Title INPUT/OUTPUT_2		
Size B	Document Number 50TR05D FLAT PANEL TV_BOARD	Rev 1.0
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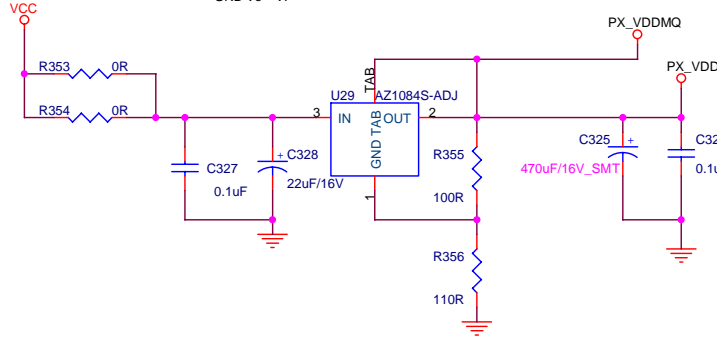
Fuzhou Walasey Technology Limited Company		
Title	POWER INTERFACE	
Size B	Document Number	Rev
	50TR05D FLAT PANEL TV_BOARD	1.0
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**PRELIMINARY**

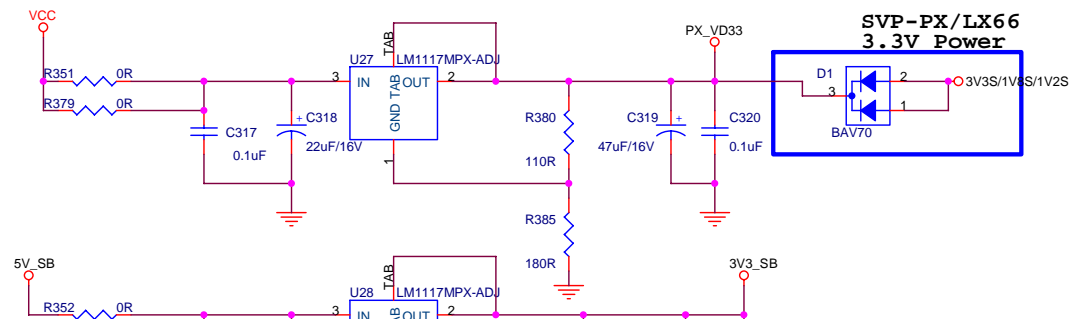


### Power for DDR IO PADS

Linear equation:  
 $V_{out} = 1.25v * (1 + R356/R355)$   
 Linear condition:  $100ohm < (R356) < 200ohm$

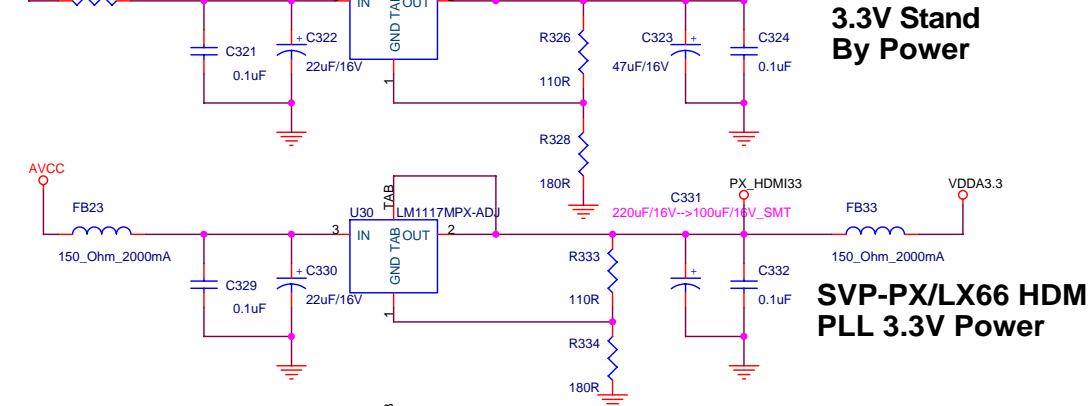


### Power for DDR Core Logic

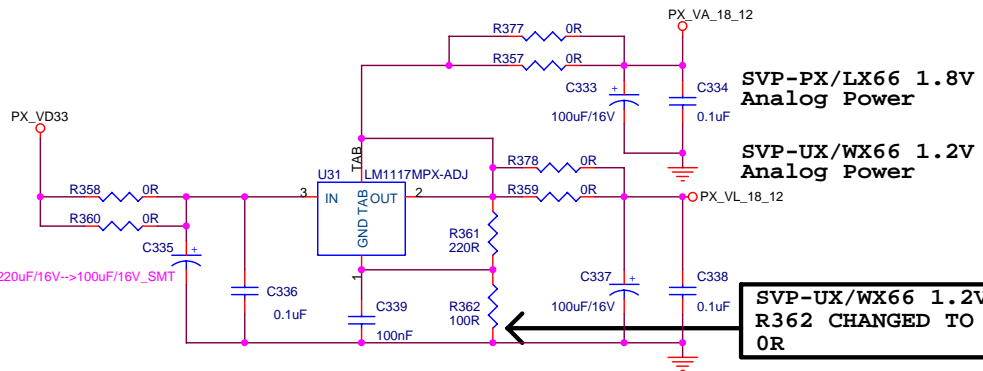


### SVP-PX/LX66 3.3V Power

### 3.3V Stand By Power



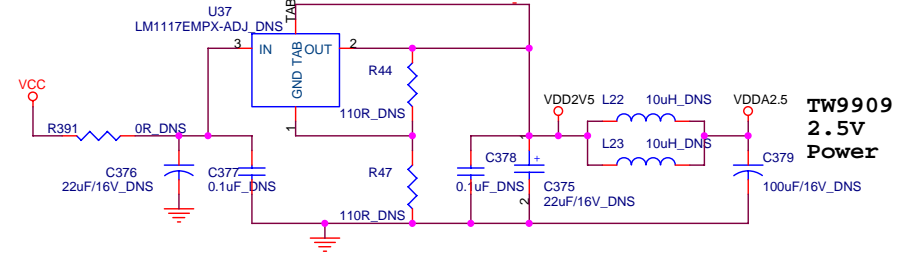
### SVP-PX/LX66 HDM1 PLL 3.3V Power



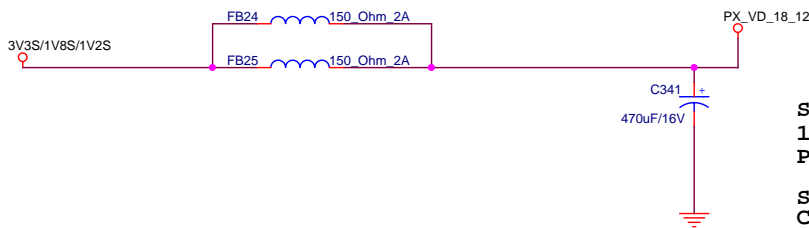
### SVP-PX/LX66 1.8V Analog Power

### SVP-UX/WX66 1.2V Analog Power

SVP-UX/WX66 1.2V  
 R362 CHANGED TO 0R



### TW9909 2.5V Power

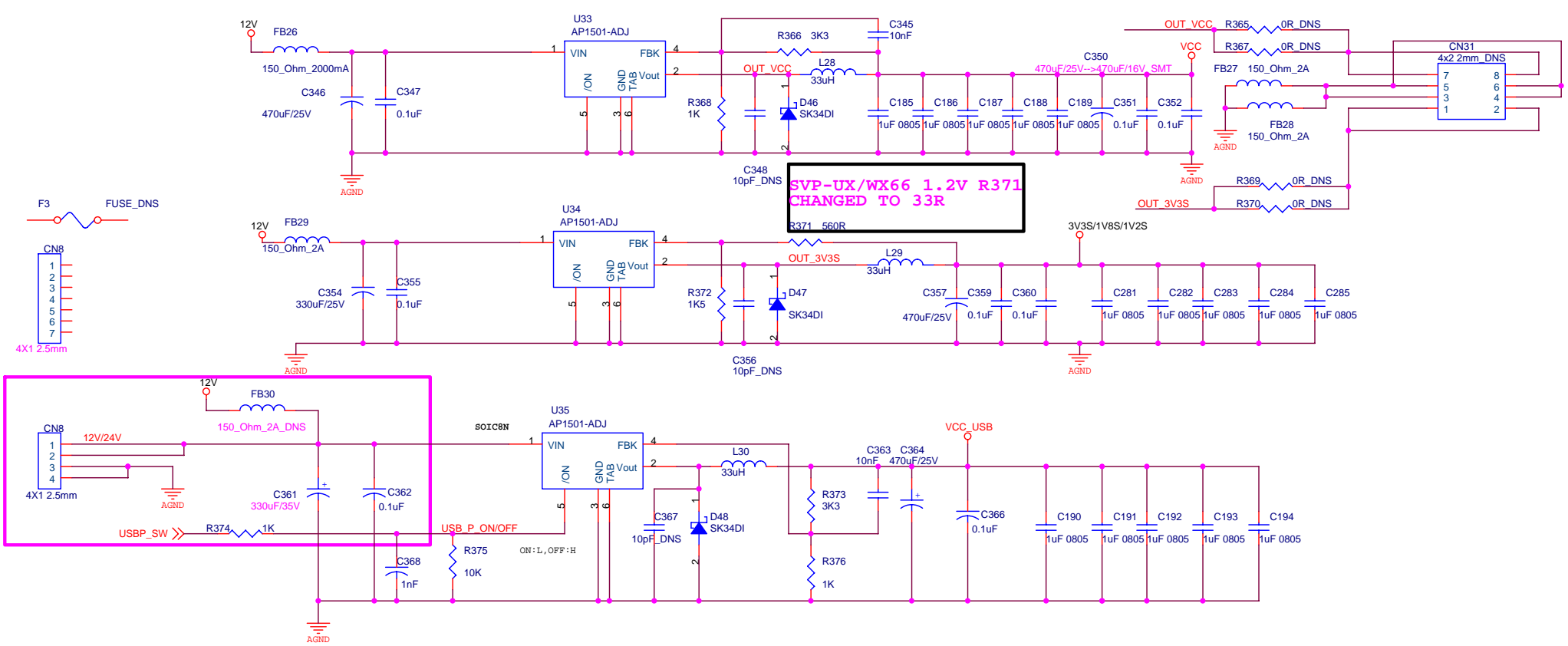


### SVP-PX/LX66 1.8V Core Power

### SVP-UX/WX66 1.2V Core Power

**PRELIMINARY**

Fuzhou Walasey Technology Limited Company		
Title POWER 2 : LDO REGULATORS		
Size B	Document Number 50TR05D FLAT PANEL TV_BOARD	Rev 1.0
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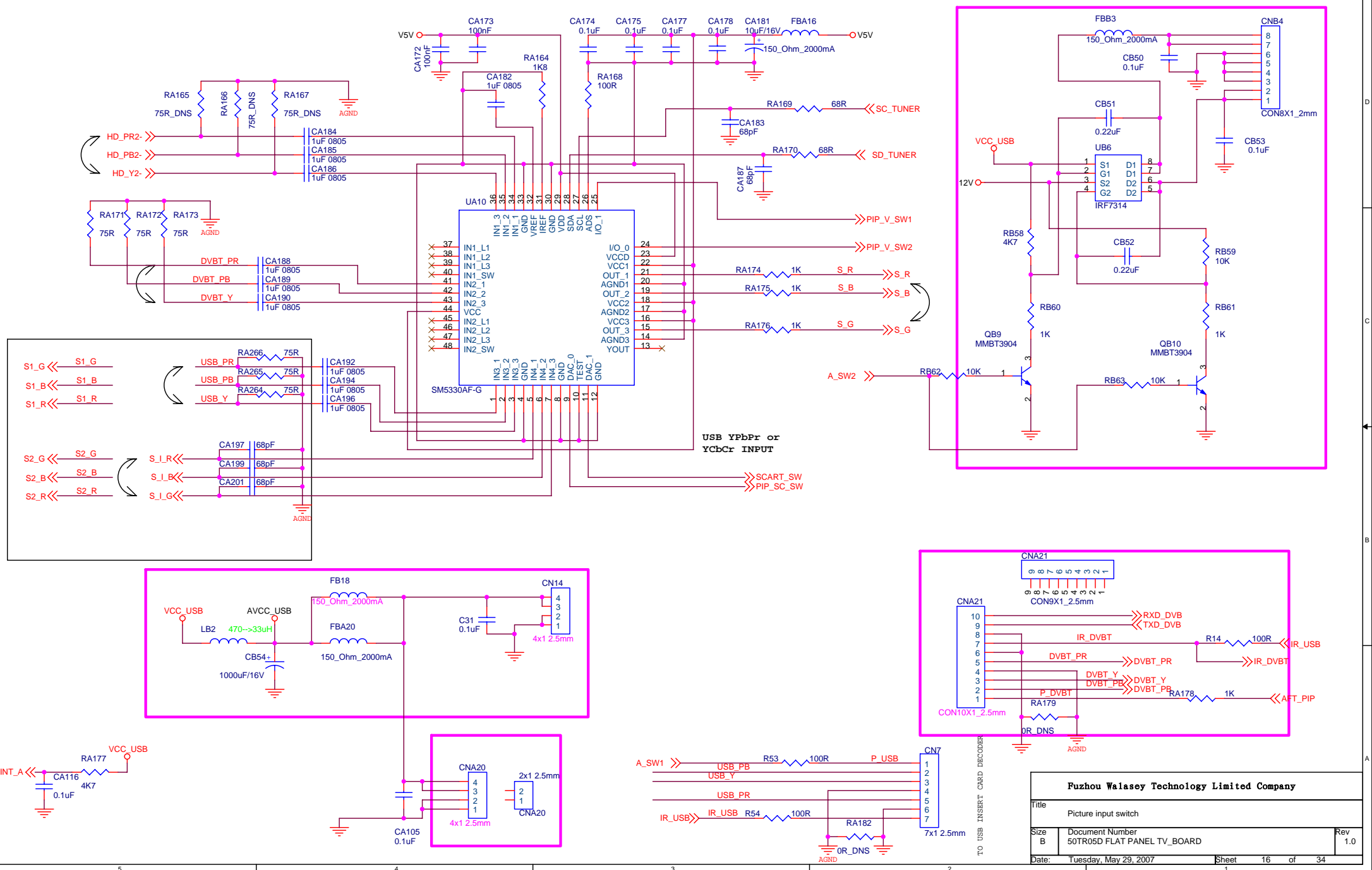
SVP-UX/WX66 1.2V R371  
CHANGED TO 33R

**PRELIMINARY**

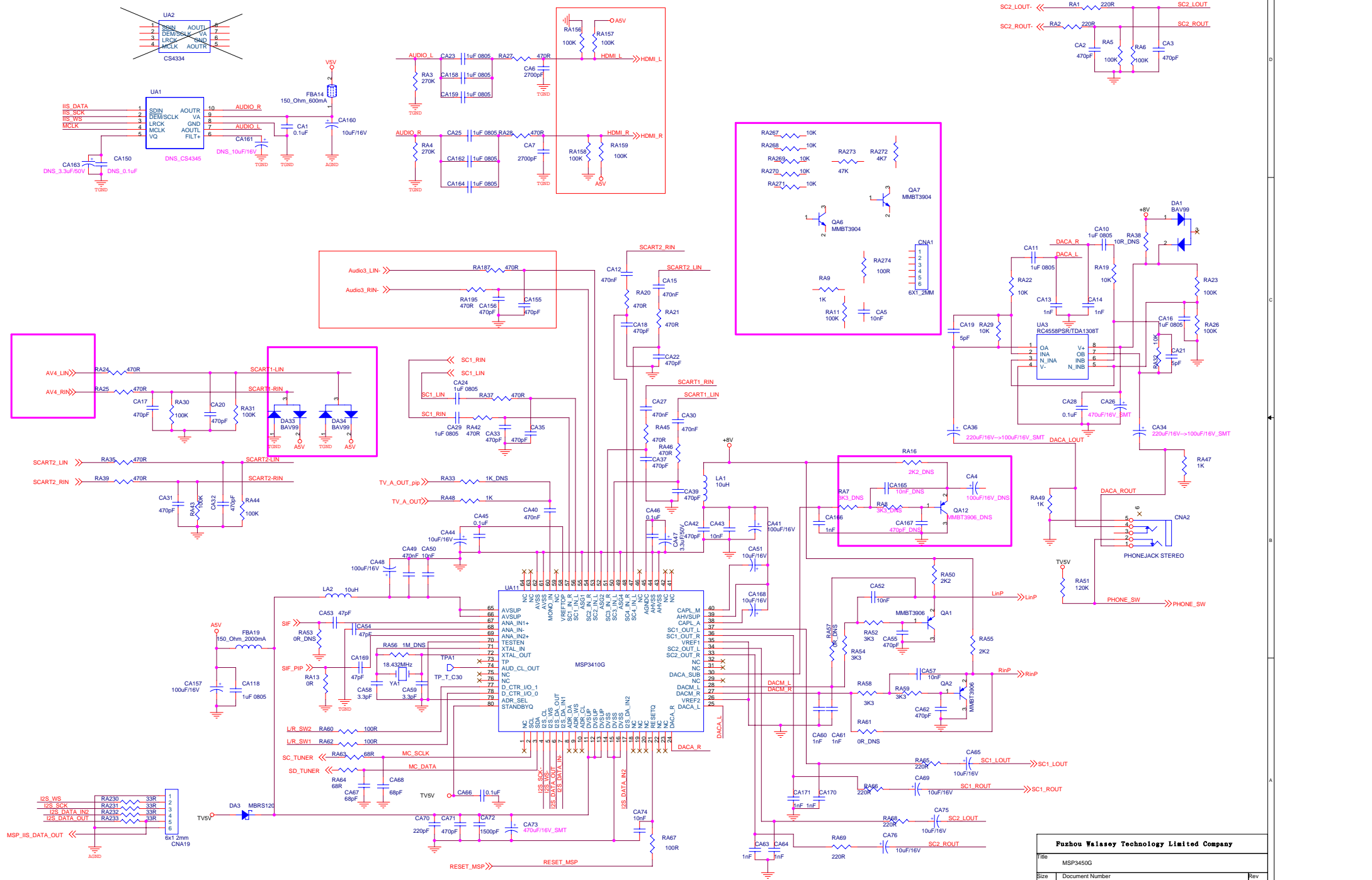
Fuzhou Walasey Technology Limited Company		
Title DC/DC POWER		
Size B	Document Number 50TR05D FLAT PANEL TV_BOARD	Rev 1.0
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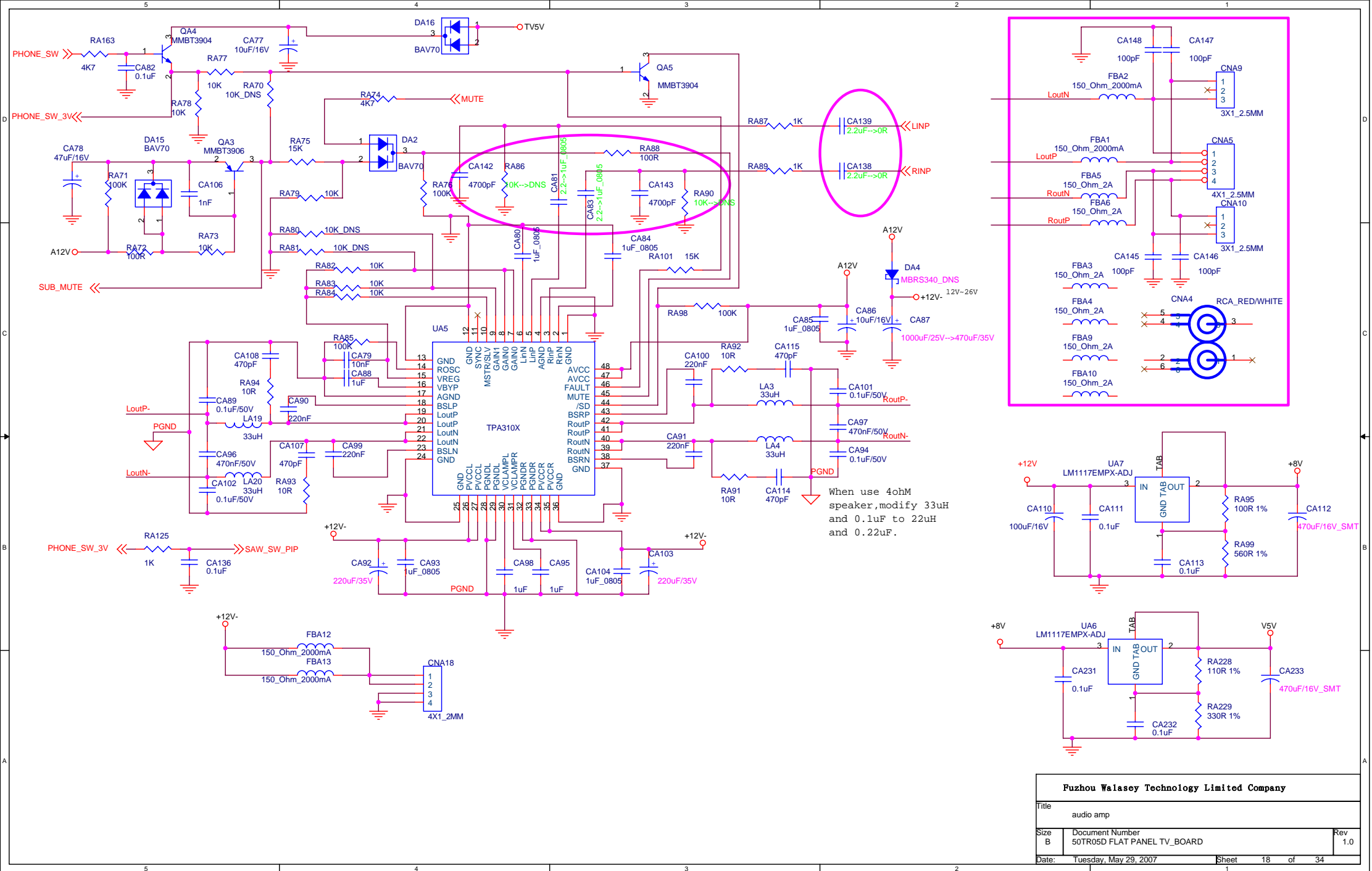




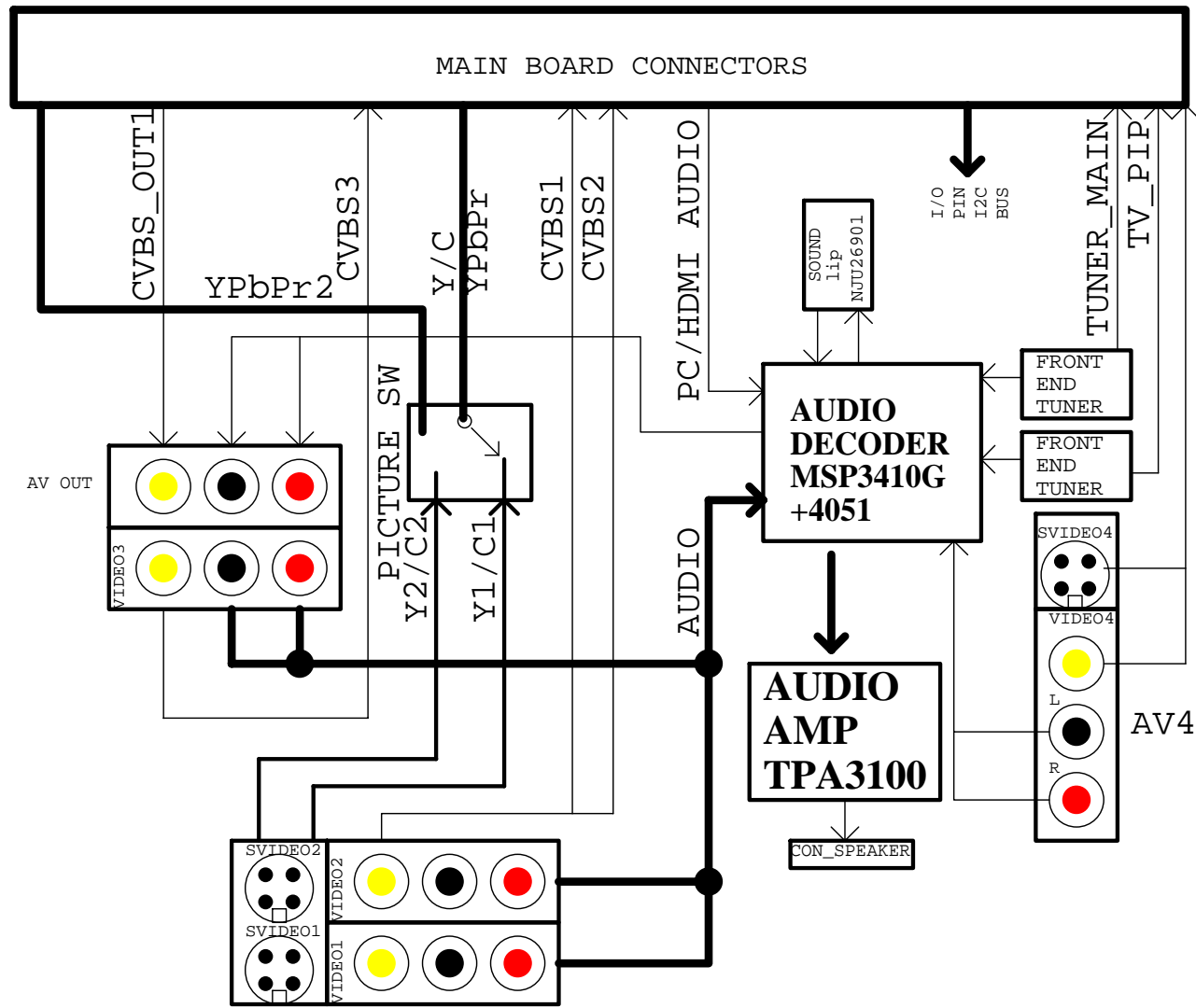
<b>Fuzhou Walasey Technology Limited Company</b>		
Title Picture input switch		
Size B	Document Number 50TR05D FLAT PANEL TV_BOARD	Rev 1.0
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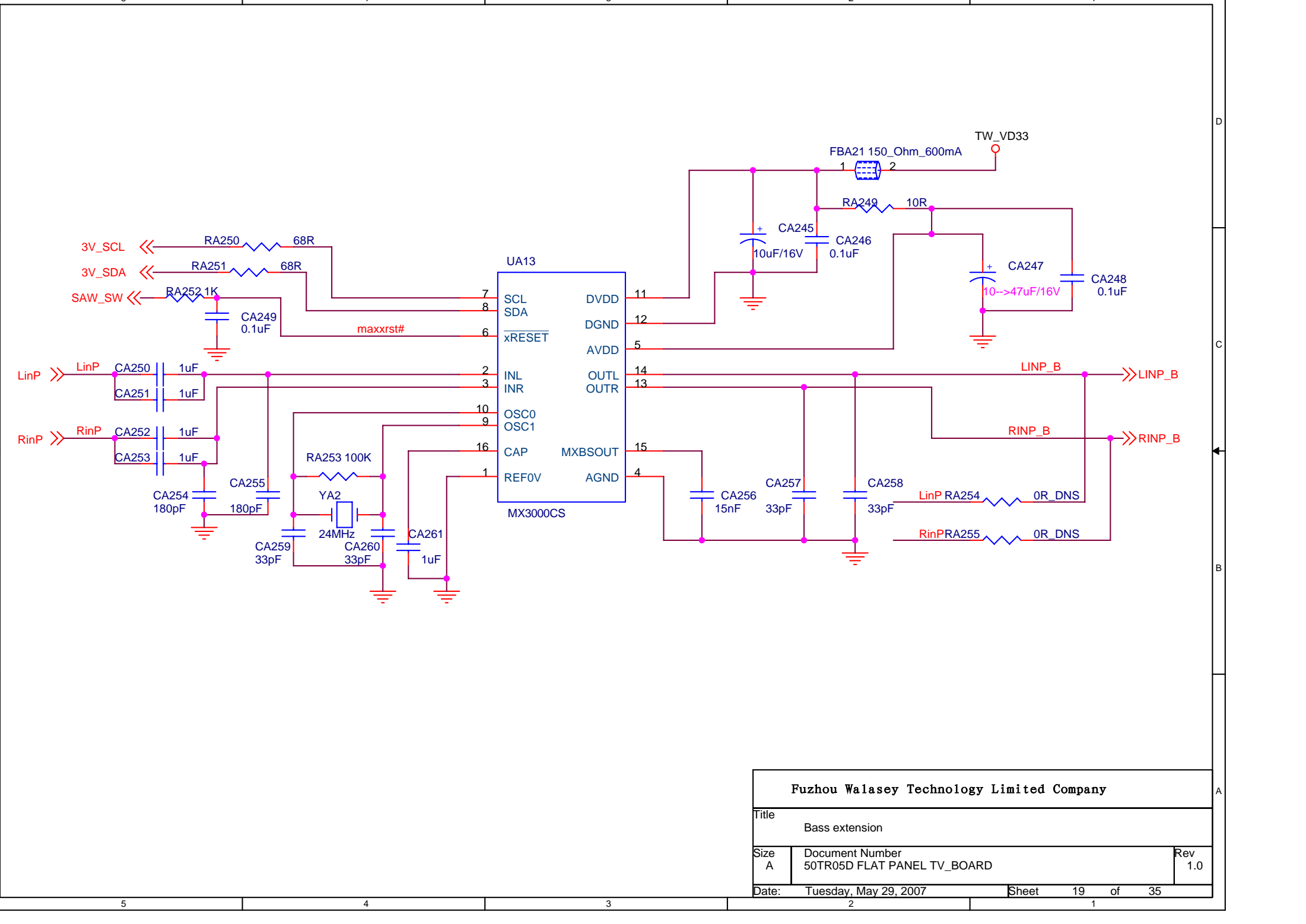


<b>Fuzhou Walasey Technology Limited Company</b>		
Title audio amp		
Size B	Document Number 50TR05D FLAT PANEL TV_BOARD	Rev 1.0
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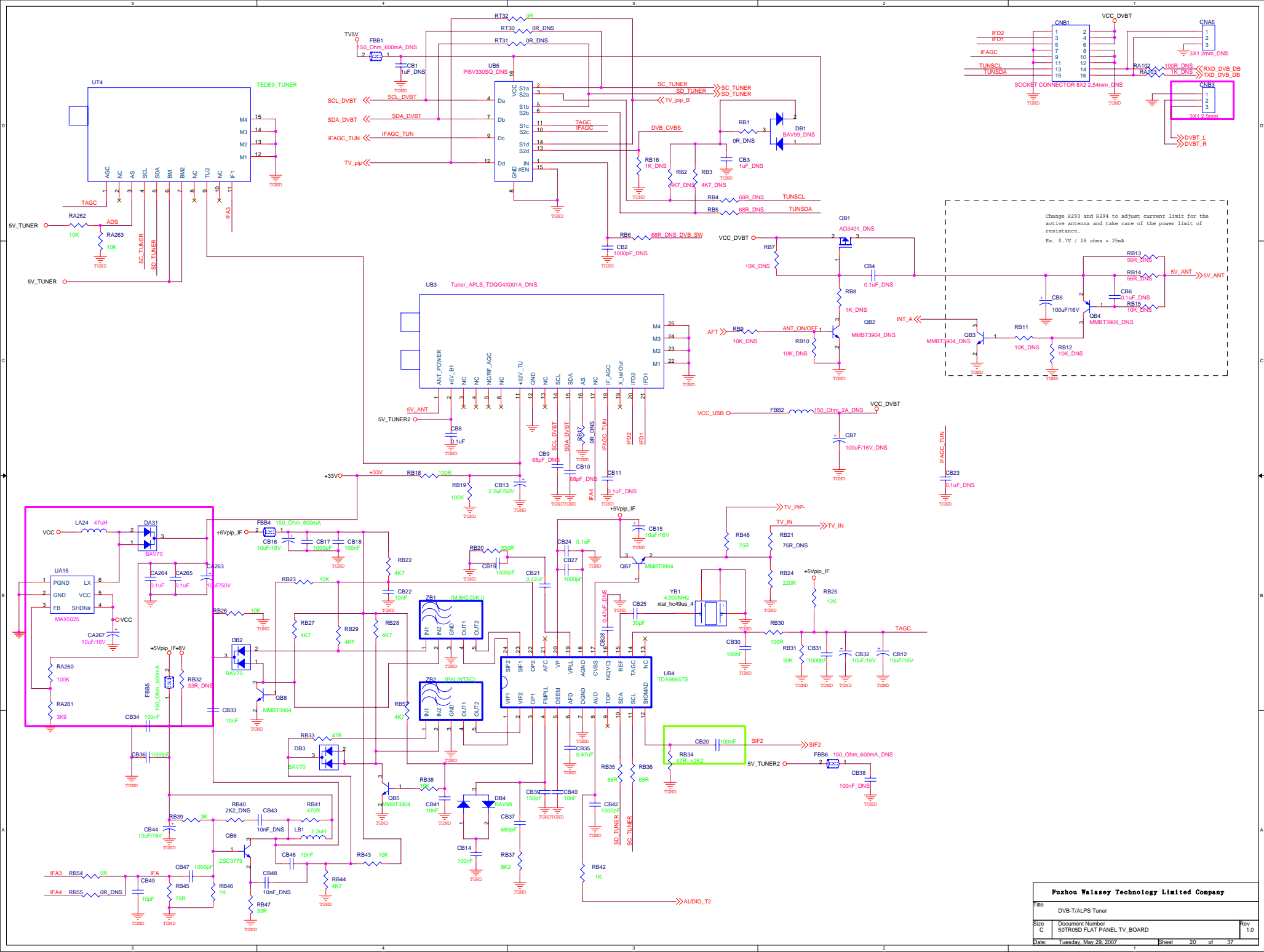


**TV&AUDIO BOARD**

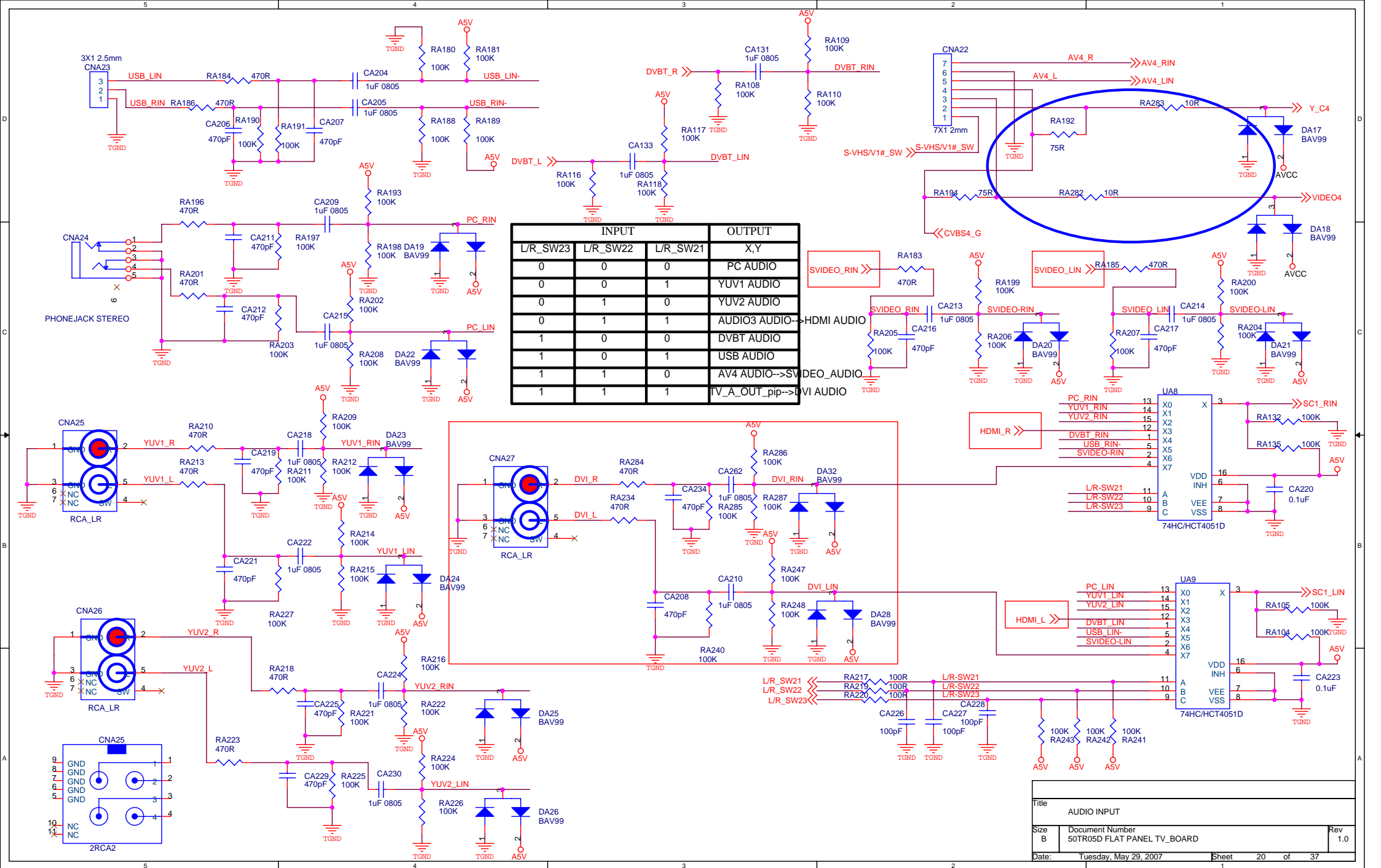
Fuzhou Walasey Technology Limited Company		
Title	BLOCK	
Size	Document Number	Rev
B	50TR05D_TV_AUDIO_CHN	1.0
Date:	Tuesday, May 29, 2007	Sheet 19 of 34



<b>Fuzhou Walasey Technology Limited Company</b>		
Title Bass extension		
Size A	Document Number 50TR05D FLAT PANEL TV_BOARD	Rev 1.0
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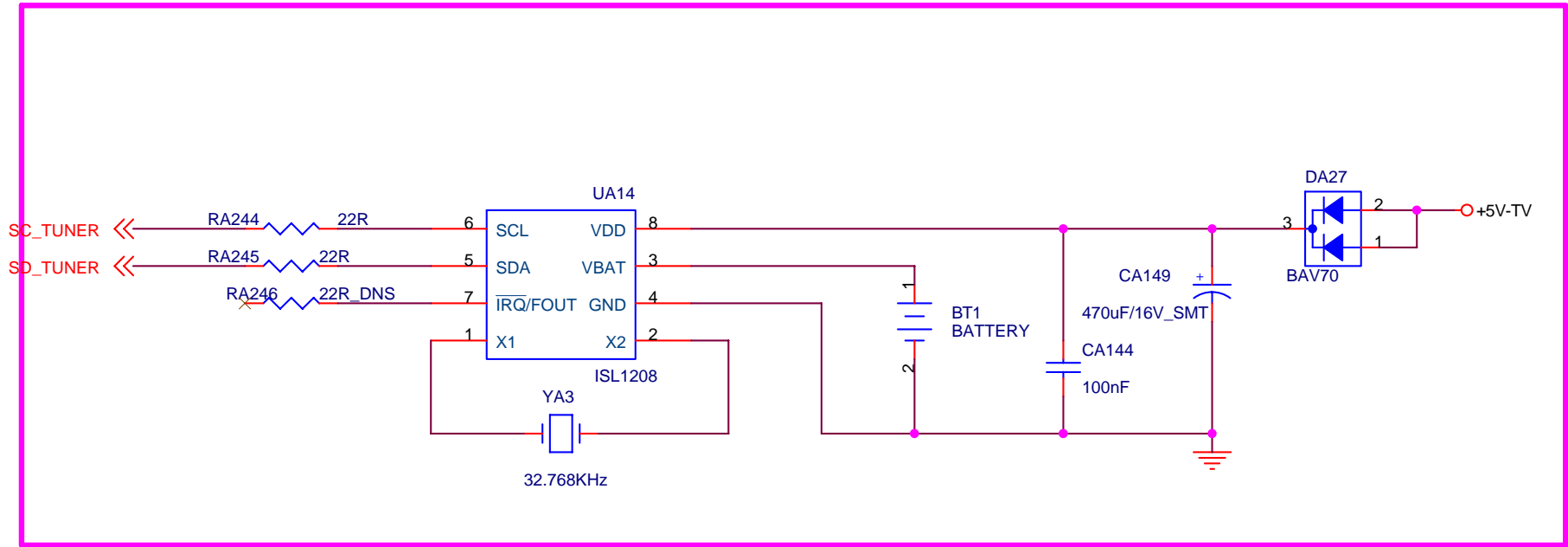




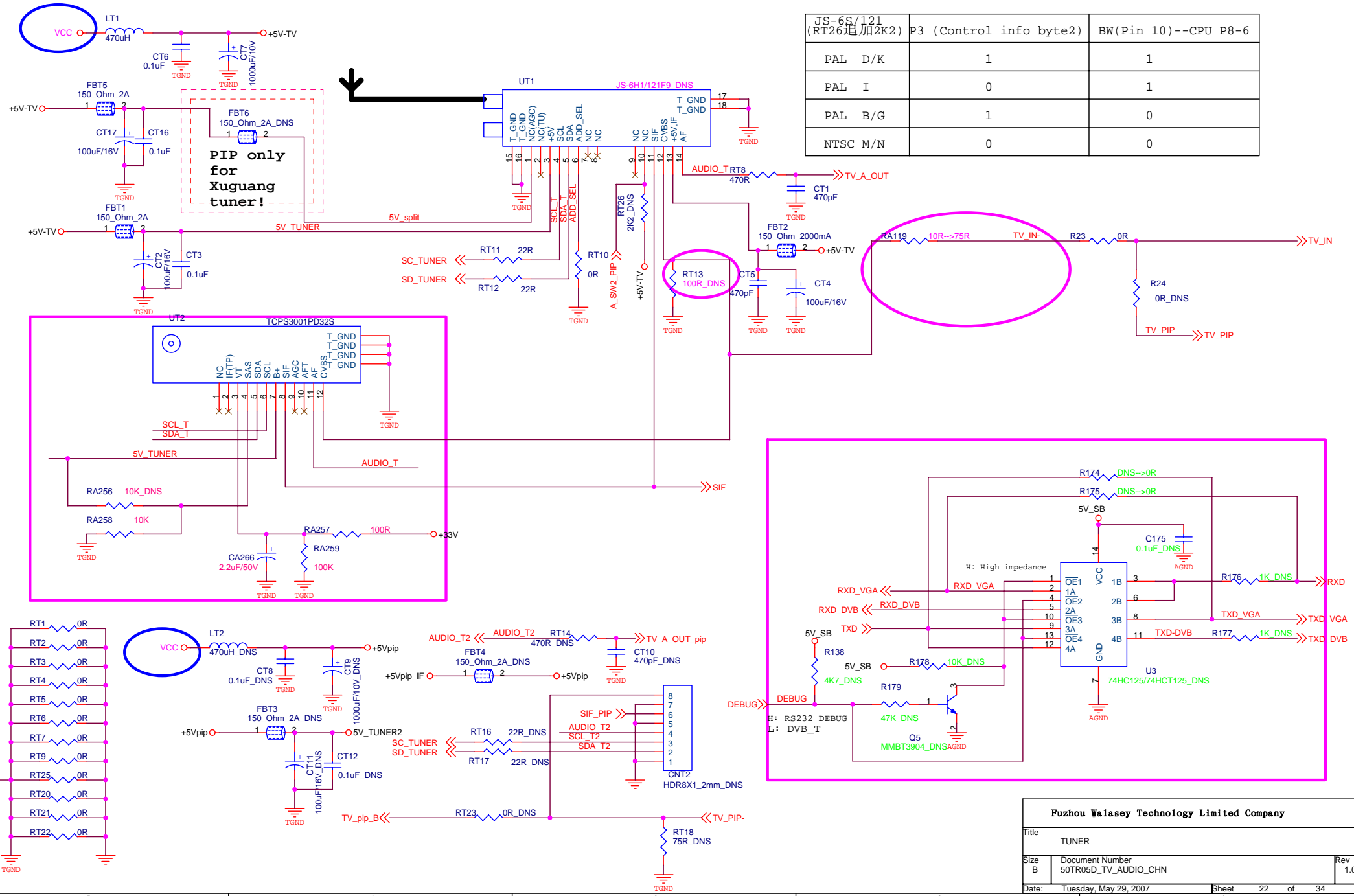


INPUT			OUTPUT
L/R_SW23	L/R_SW22	L/R_SW21	X,Y
0	0	0	PC AUDIO
0	0	1	YUV1 AUDIO
0	1	0	YUV2 AUDIO
0	1	1	AUDIO3 AUDIO-->HDMI AUDIO
1	0	0	DVBT AUDIO
1	0	1	USB AUDIO
1	1	0	AV4 AUDIO-->SVIDEO_AUDIO
1	1	1	TV_A_OUT_pip-->LVI AUDIO

Title			AUDIO INPUT
Size	Document Number	50TR05D FLAT PANEL TV_BOARD	
B		Rev	1.0
Date:	Tuesday, May 29, 2007	Sheet	20 of 37

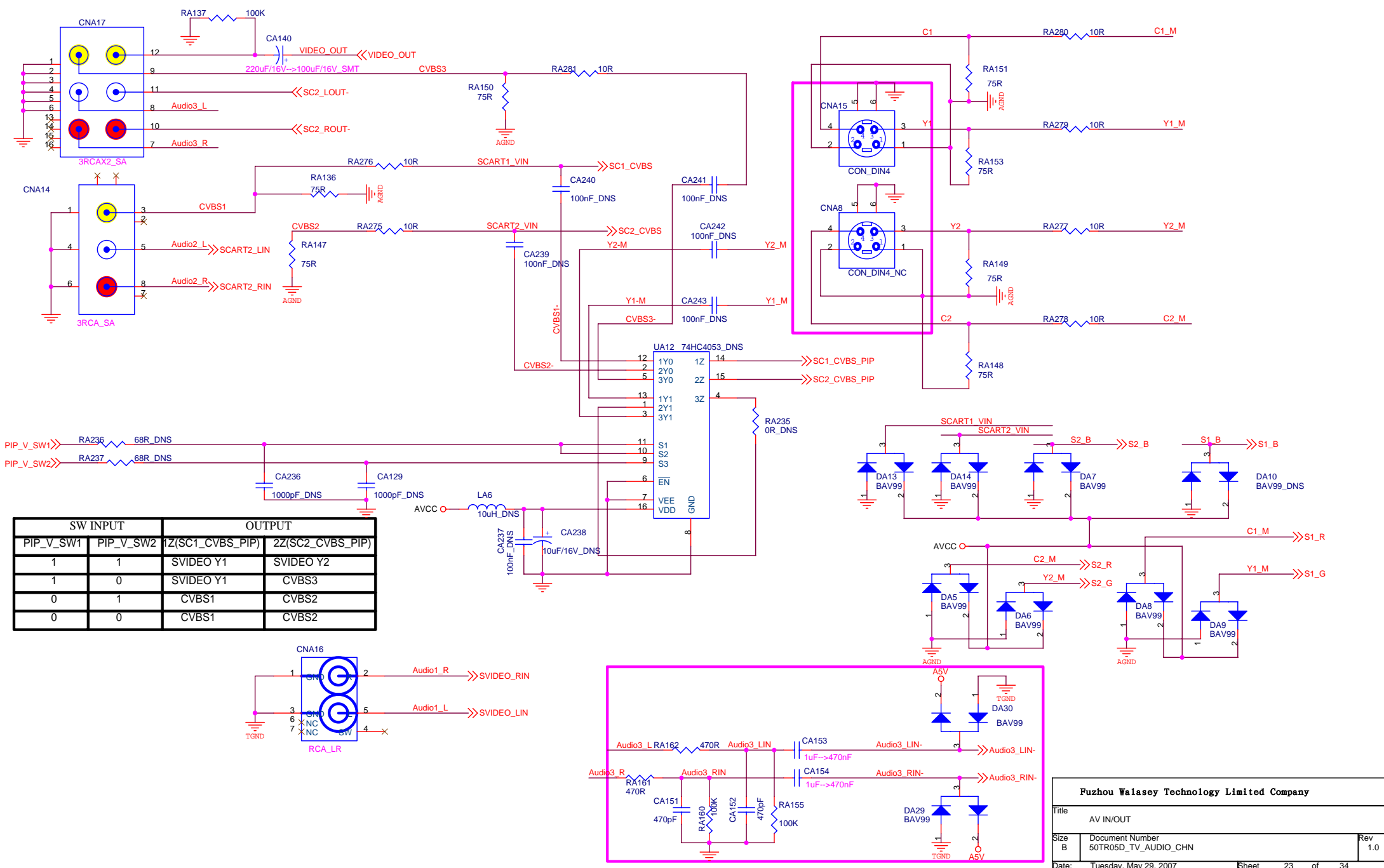


Title		
REAL TIME CLOCK		
Size	Document Number	Rev
A	50TR05D FLAT PANEL TV_BOARD	1.0
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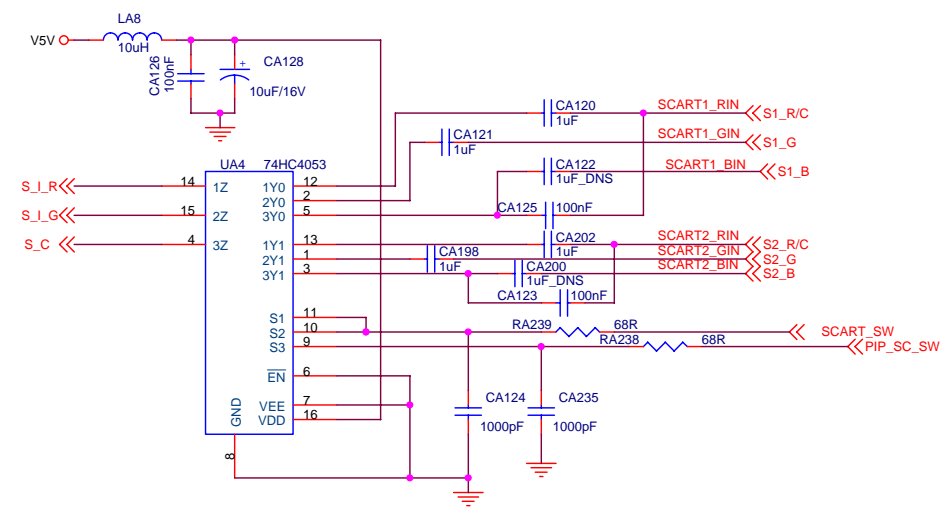
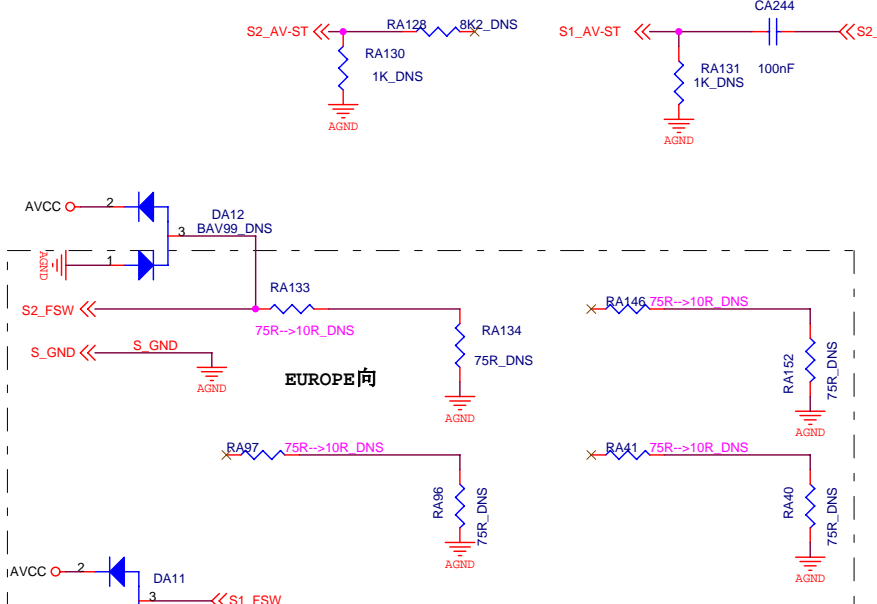
JS-6S/121 (RT26追加2K2)	P3 (Control info byte2)	BW(Pin 10)--CPU P8-6
PAL D/K	1	1
PAL I	0	1
PAL B/G	1	0
NTSC M/N	0	0

Fuzhou Walasey Technology Limited Company		
Title TUNER		
Size B	Document Number 50TR05D_TV_AUDIO_CHN	Rev 1.0
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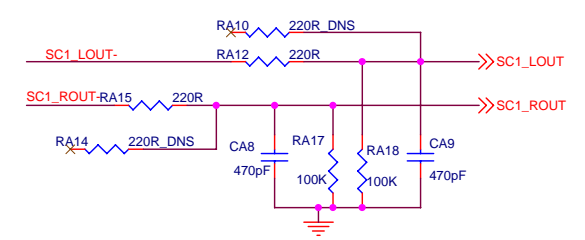
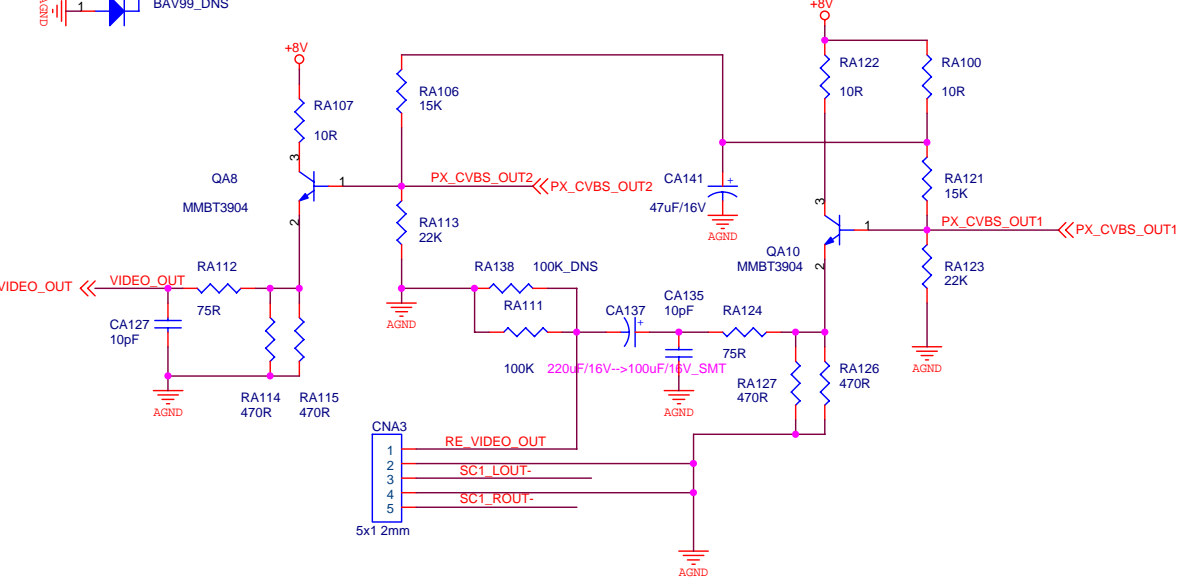


SW INPUT		OUTPUT	
PIP_V_SW1	PIP_V_SW2	1Z(SC1_CVBS_PIP)	2Z(SC2_CVBS_PIP)
1	1	SVIDEO Y1	SVIDEO Y2
1	0	SVIDEO Y1	CVBS3
0	1	CVBS1	CVBS2
0	0	CVBS1	CVBS2

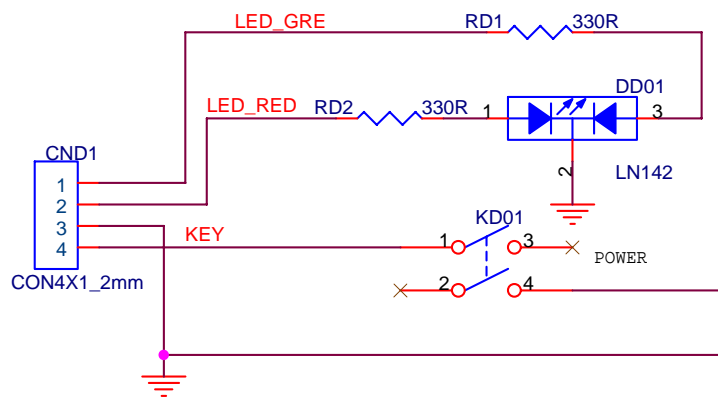
<b>Fuzhou Walasey Technology Limited Company</b>		
Title: AV IN/OUT		
Size: B	Document Number: 50TR05D_TV_AUDIO_CHN	Rev: 1.0
Date: Tuesday, May 29, 2007	Sheet: 23	of 34



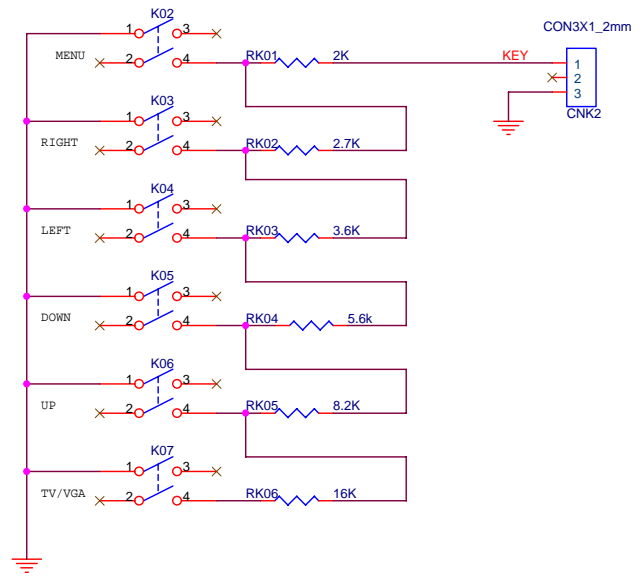
SW INPUT		OUTPUT		
SCART_SW	PIP_SC_SW	1Z(S_I_R)	2Z(S_I_G)	3Z(S_C_PIP)
1	1	SVIDEO C2	SVIDEO Y2	SVIDEO C2
1	0	SVIDEO C2	SVIDEO Y2	SVIDEO C1
0	1	SVIDEO C1	SVIDEO Y1	SVIDEO C2
0	0	SVIDEO C1	SVIDEO Y1	SVIDEO C1



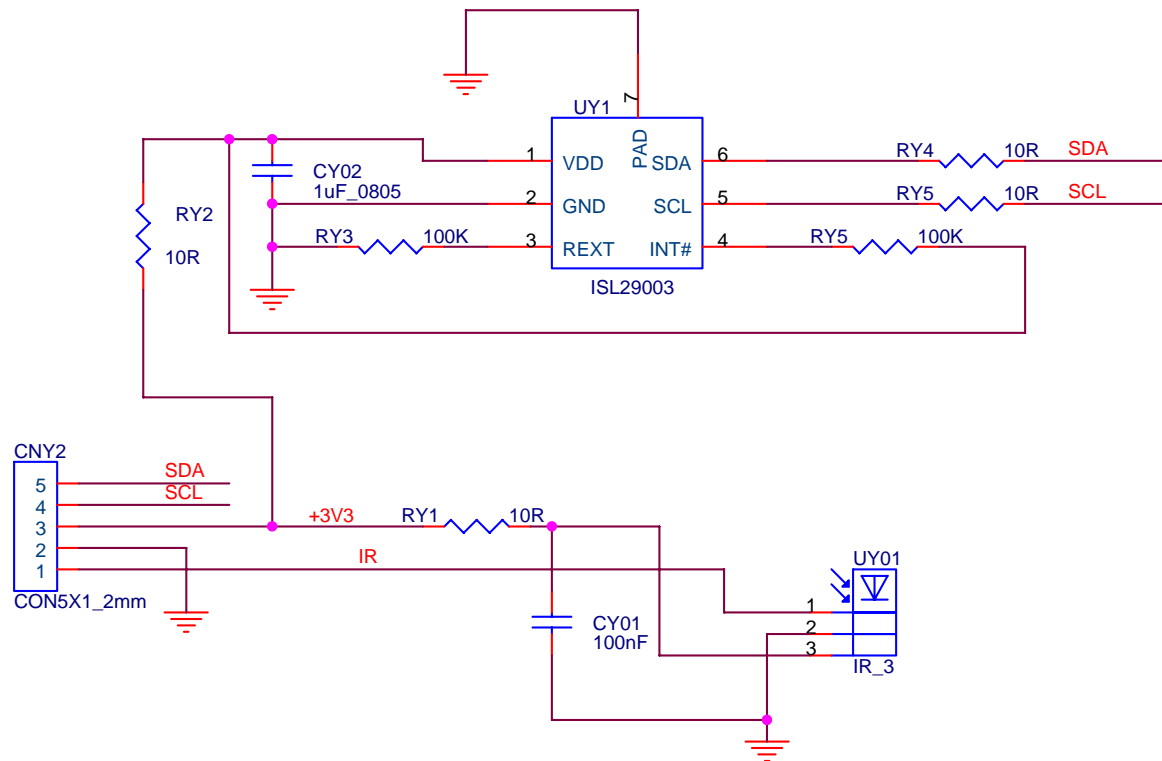
<b>Fuzhou Walasey Technology Limited Company</b>		
Title Picture input switch		
Size B	Document Number 50TR05D_TV_AUDIO_CHN	Rev 1.0
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<b>Fuzhou Walasey Technology Limited Company</b>		
Title LED&POWER KEY BOARD		
Size A	Document Number 50TR05D_LED&POWER KEY BOARD	Rev 1.0
Date:	Tuesday, April 17, 2007	Sheet 29 of 30

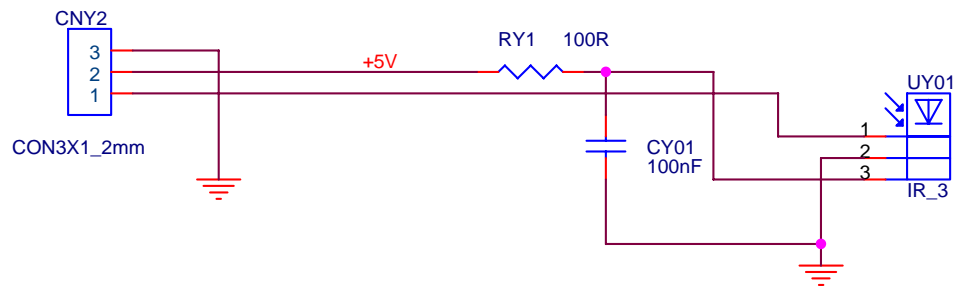


<b>Fuzhou Walasey Technology Limited Company</b>			
Title			
KEY BOARD			
Size	Document Number	Rev	
B	KEY BOARD	1.0	
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<b>Fuzhou Walasey Technology Limited Company</b>		
Title IR&SENSOR BOARD		
Size A	Document Number IR BOARD	Rev 1.0
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<b>Fuzhou Walasey Technology Limited Company</b>		
Title IR BOARD		
Size A	Document Number IR BOARD	Rev 1.0
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