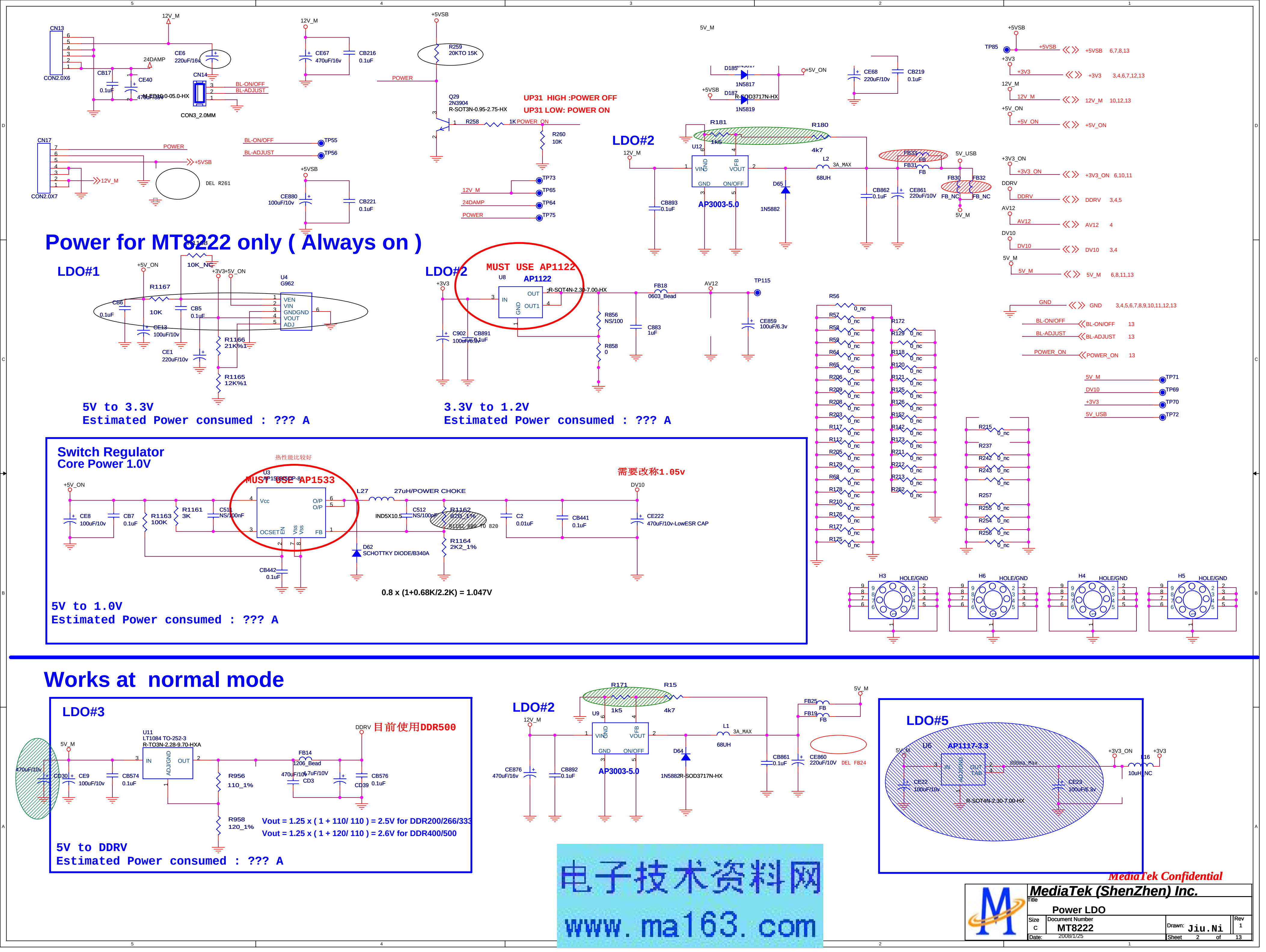
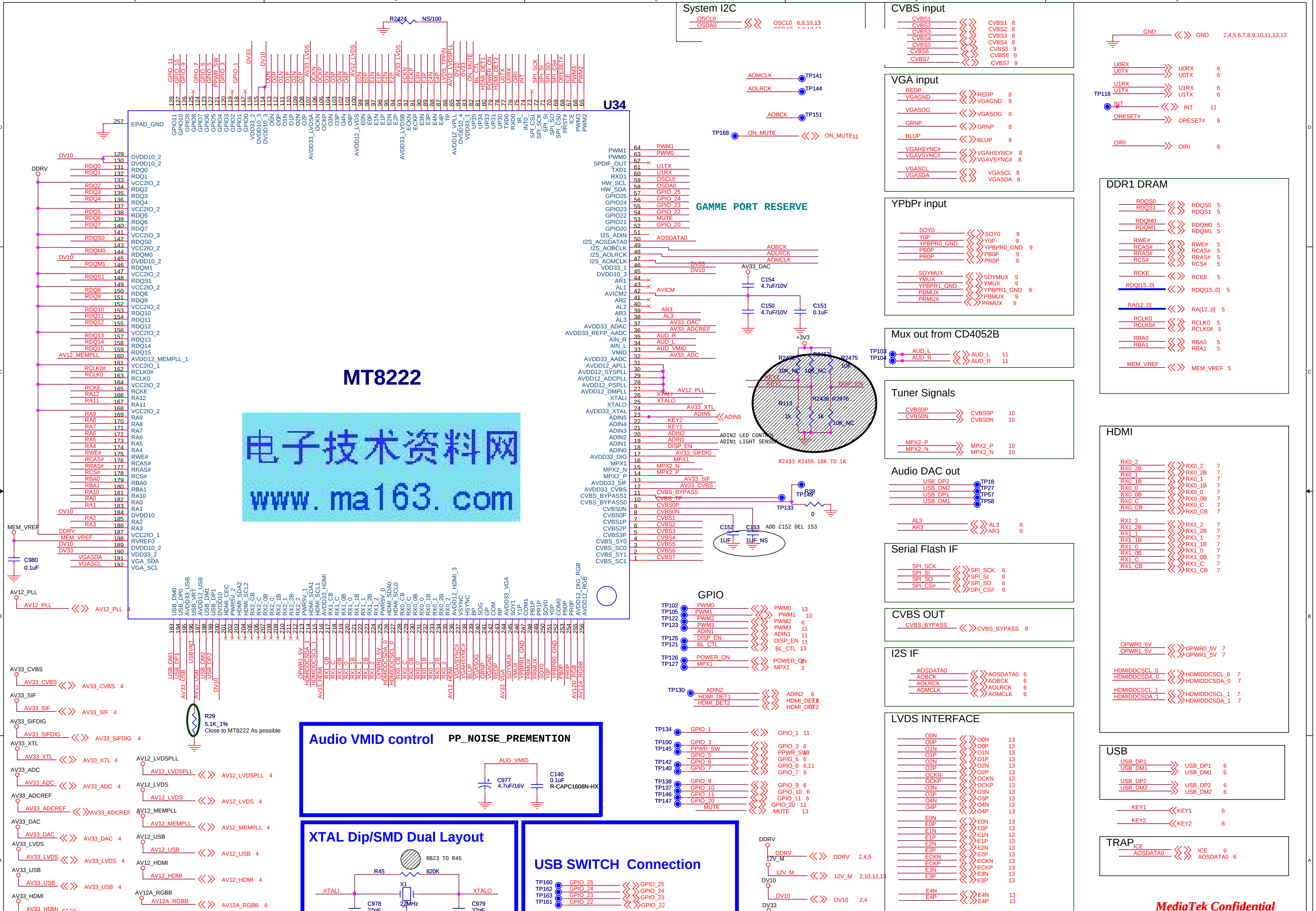


Power for MT8222 only (Always on)
LDO#1
5V to 3.3V
Estimated Power consumed : ??? A
LDO#2
MUST USE AP1122
AP1122
3.3V to 1.2V
Estimated Power consumed : ??? A
LDO#2
AP3003-5.0
UP31 HIGH :POWER OFF
UP31 LOW: POWER ON
Switch Regulator
Core Power 1.0V
热性能比较好
MUST USE AP1533
需要改称1.05v
27uH/POWER CHOKE
SCHOTTKY DIODE/B340A
0.8 x (1+0.68K/2.2K) = 1.047V
5V to 1.0V
Estimated Power consumed : ??? A
Works at normal mode
LDO#3
目前使用DDR500
Vout = 1.25 x (1 + 110/ 110) = 2.5V for DDR200/266/333
Vout = 1.25 x (1 + 120/ 110) = 2.6V for DDR400/500
5V to DDRV
Estimated Power consumed : ??? A
LDO#2
AP3003-5.0
LDO#5
AP1117-3.3
电子技术资料网
www.ma163.com
MediaTek Confidential
MediaTek (ShenZhen) Inc.
Title
Power LDO
Size C
Document Number
MT8222
Rev 1
Drawn: Jiu.Ni
Date: 2008/1/25
Sheet 2 of 13



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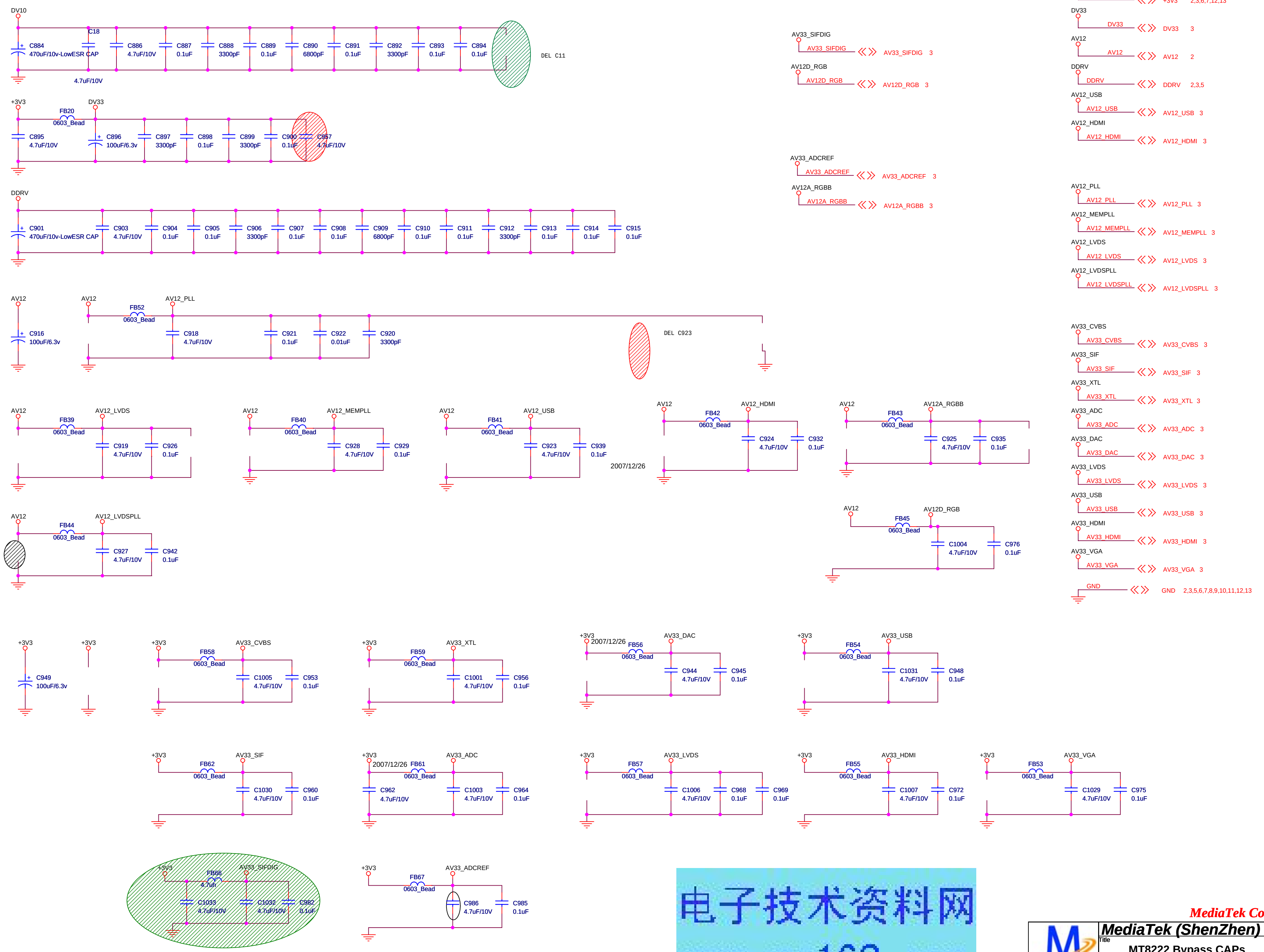
MediaTek (ShenZhen) Inc.

Title	MT8222		
Size C	Document Number MT8222	Drawn: Jiu.Ni	Rev 1
Date: 2008/1/25		Sheet 3 of 13	

(Bypass CAPs arround MT8222)



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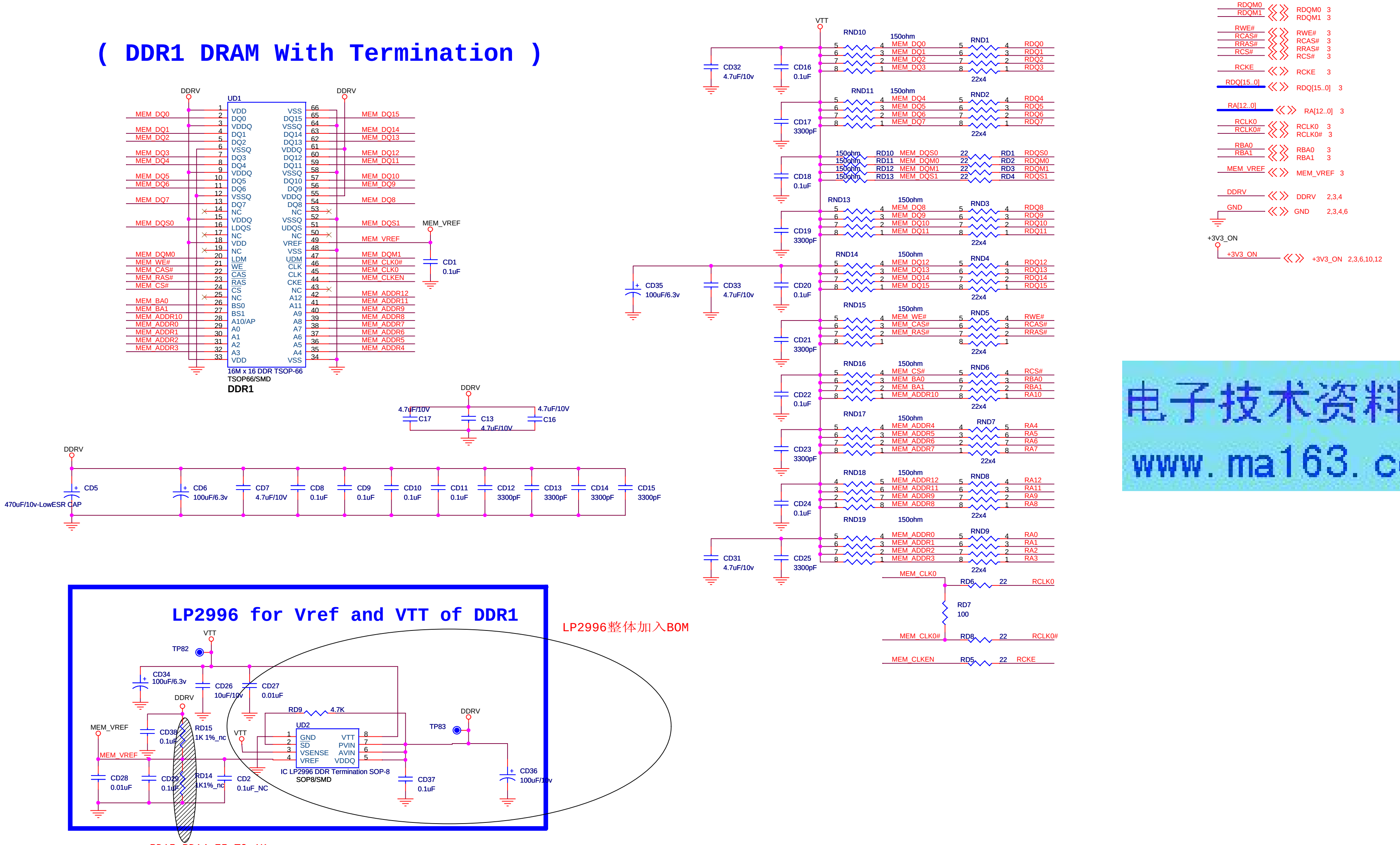
MediaTek (ShenZhen) Inc.	
Title	MT8222 Bypass CAPs
Size: C	Document Number: MT8222
Drawn: Jiu.Ni	Rev: 1
Date: 2008/1/25	Sheet 4 of 13

(DDR1 DRAM With Termination)



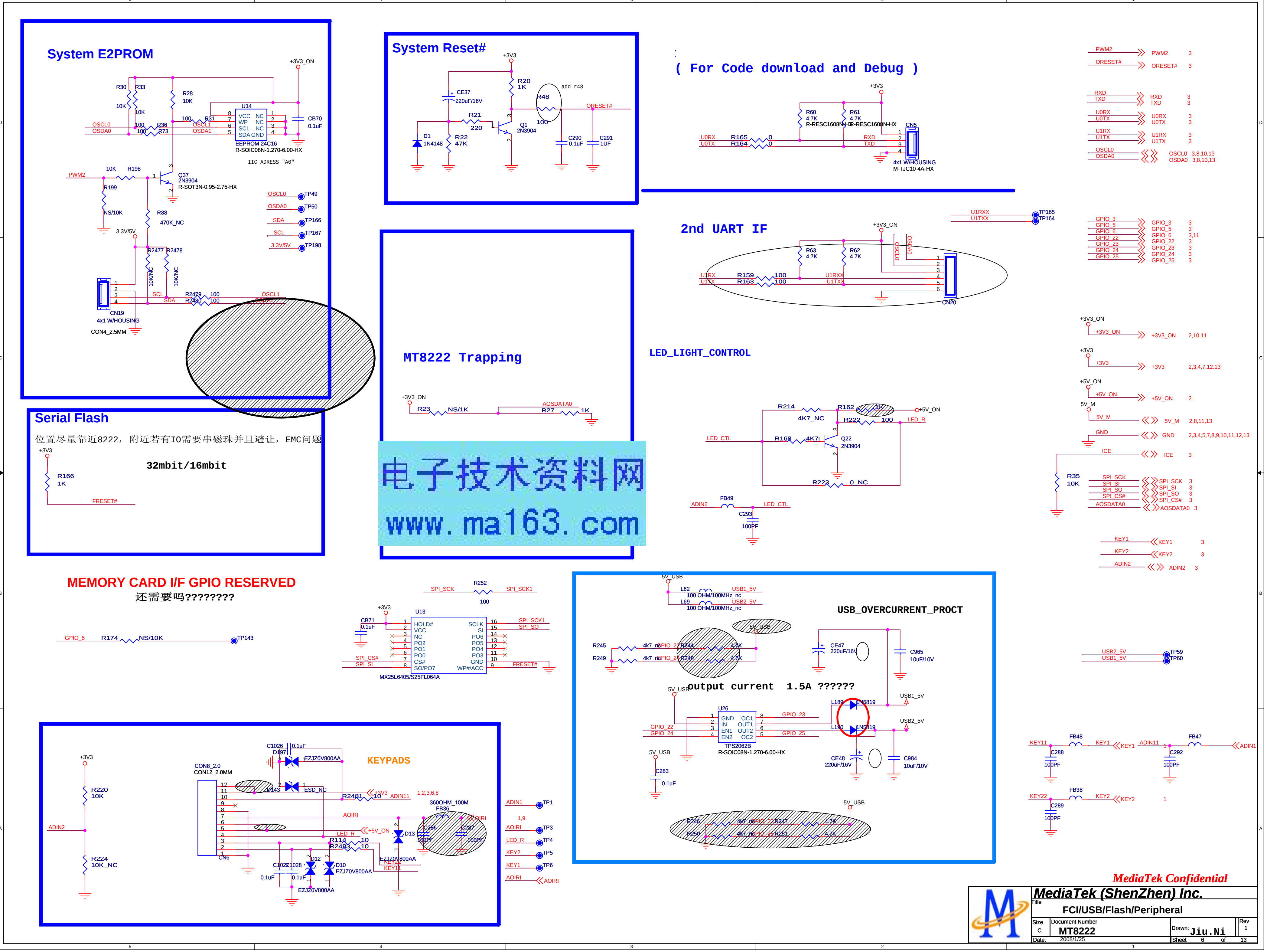
LP2996 for Vref and VTT of DDR1

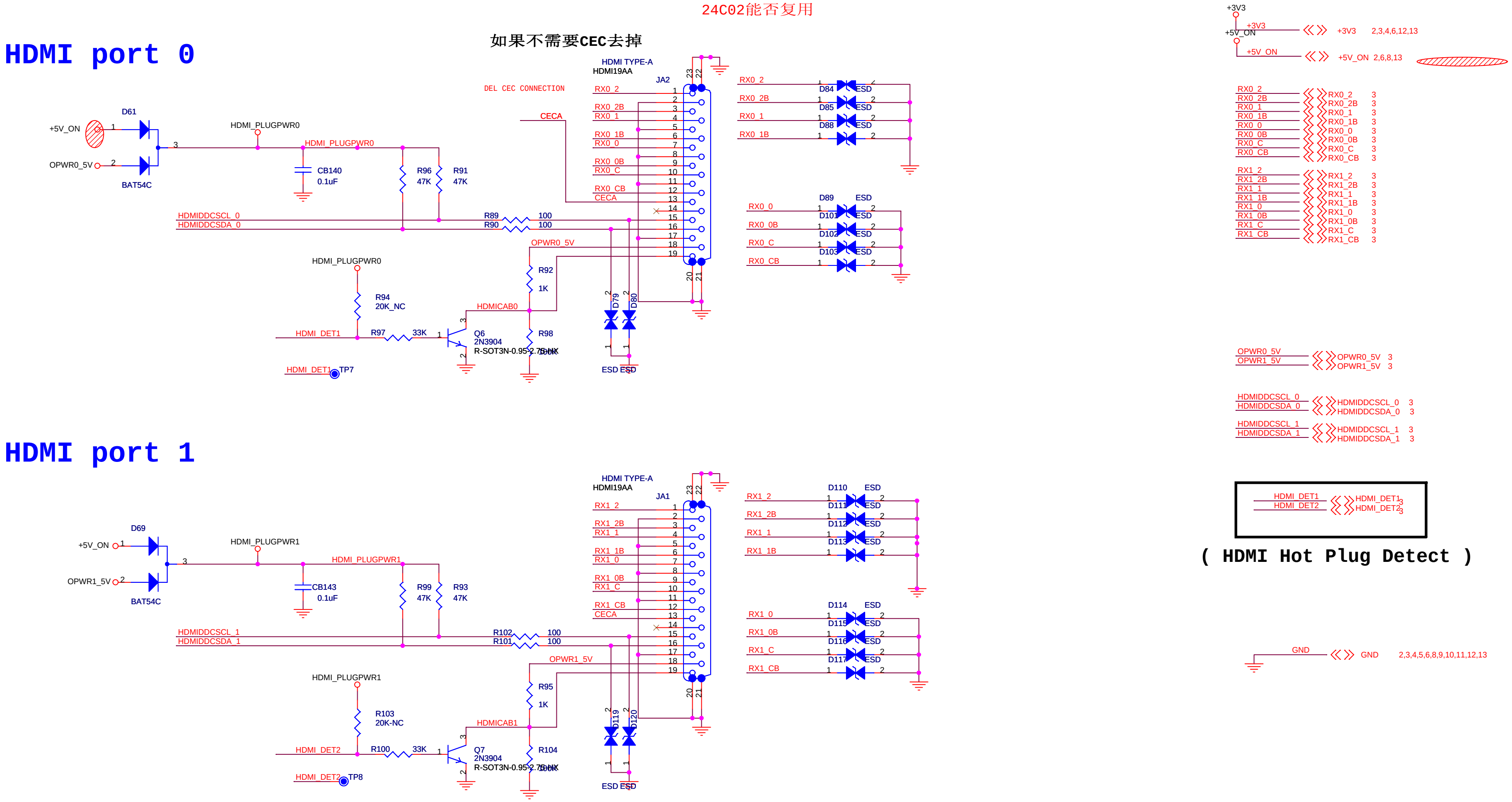
LP2996整体加入BOM

RD15 RD14 75 TO 1K

MediaTek Confidential

MediaTek (ShenZhen) Inc.			
Title: DDR1 DRAM			
Size: C	Document Number: MT8222	Drawn: Jiu.Ni	Rev: 1
Date: 2008/1/25		Sheet 5 of 13	


System E2PROM
EEPROM 24C16
R-SOIC08N-1.270-6.00-HX
IIC ADRESS "A0"
System Reset#
add r48
(For Code download and Debug)
4x1 W/HOUSING
M-TJC10-4A-HX
2nd UART IF
MT8222 Trapping
LED_LIGHT_CONTROL
Serial Flash
位置尽量靠近8222，附近若有IO需要串磁珠并且避让，EMC问题
32mbit/16mbit
MEMORY CARD I/F GPIO RESERVED
还需要吗????????
MX25L6405/S25FL064A
USB_OVERCURRENT_PROCT
output current 1.5A ??????
TPS2062B
R-SOIC08N-1.270-6.00-HX
KEYPADS
CON8_2.0
CON12_2.0MM
MediaTek Confidential
MediaTek (ShenZhen) Inc.
Title
FCI/USB/Flash/Peripheral
Size C
Document Number MT8222
Drawn: Jiu.Ni
Rev 1
Date: 2008/1/25
Sheet 6 of 13

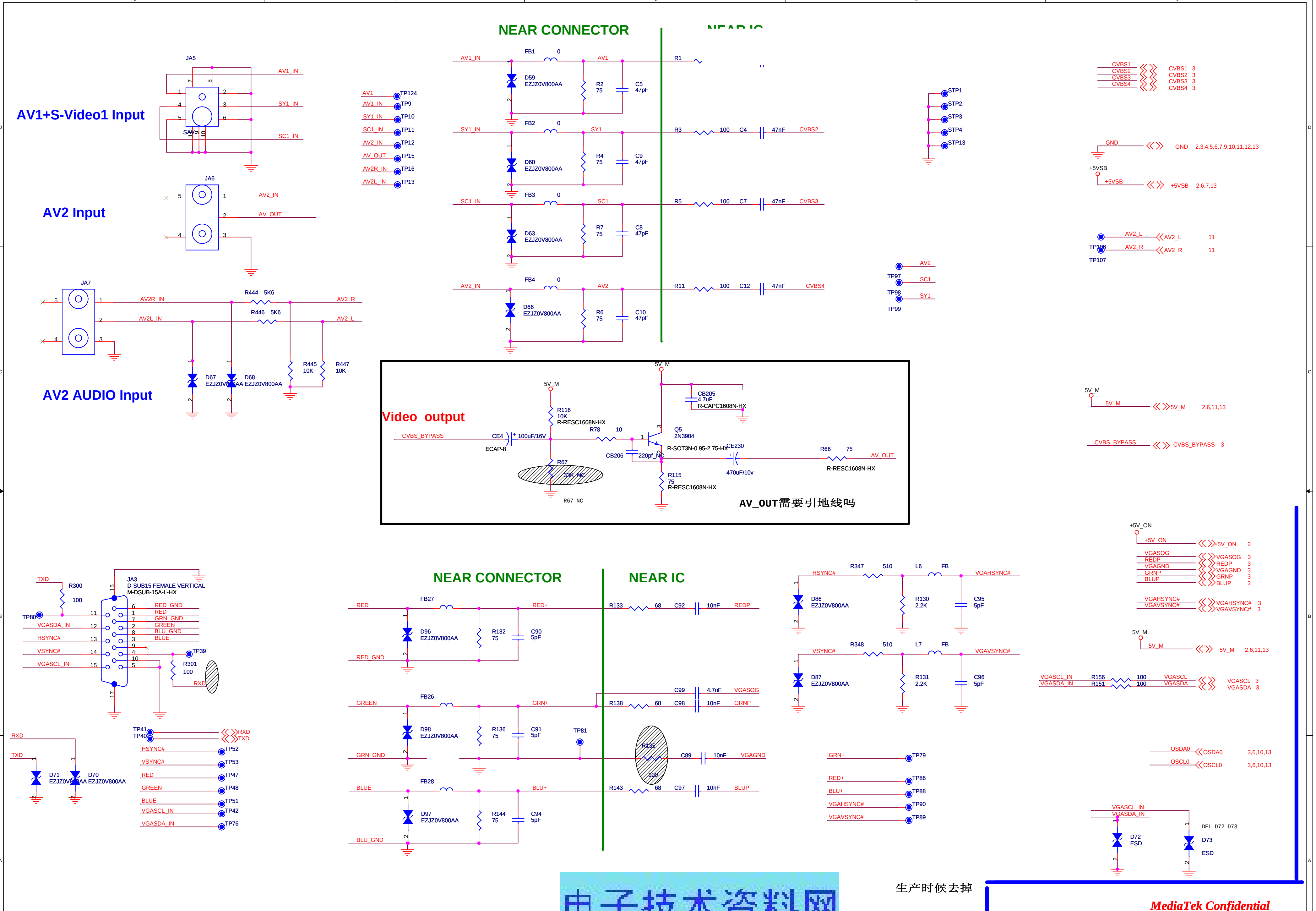


1.E2P供电更改
2.各信号上ESD器件更改

MediaTek Confidential

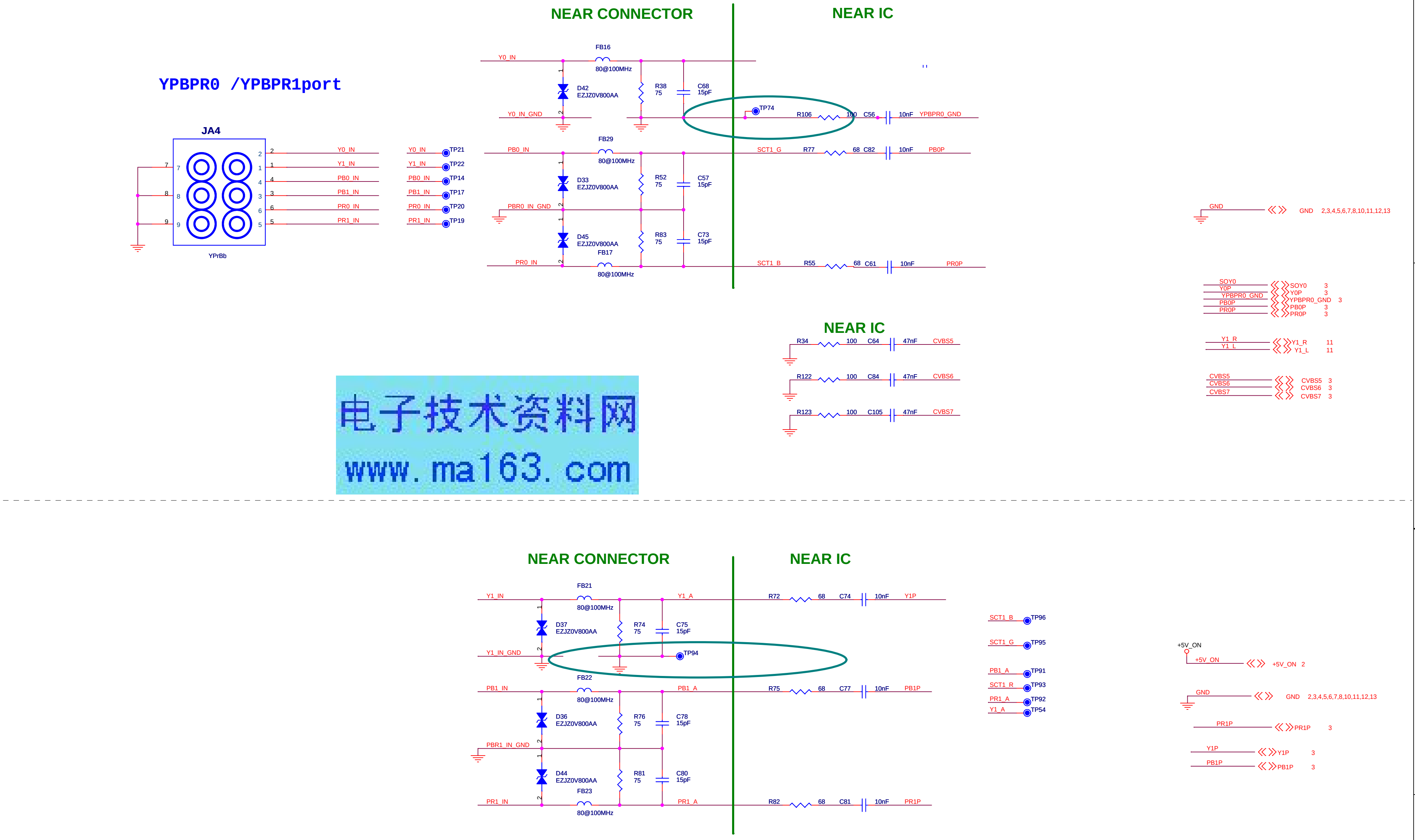
MediaTek (ShenZhen) Inc.

Title	HDMIX3		
Size C	Document Number MT8222	Drawn: Jiu.Ni	Rev 1
Date: 2008/1/25		Sheet 7 of 13	



MediaTek Confidential

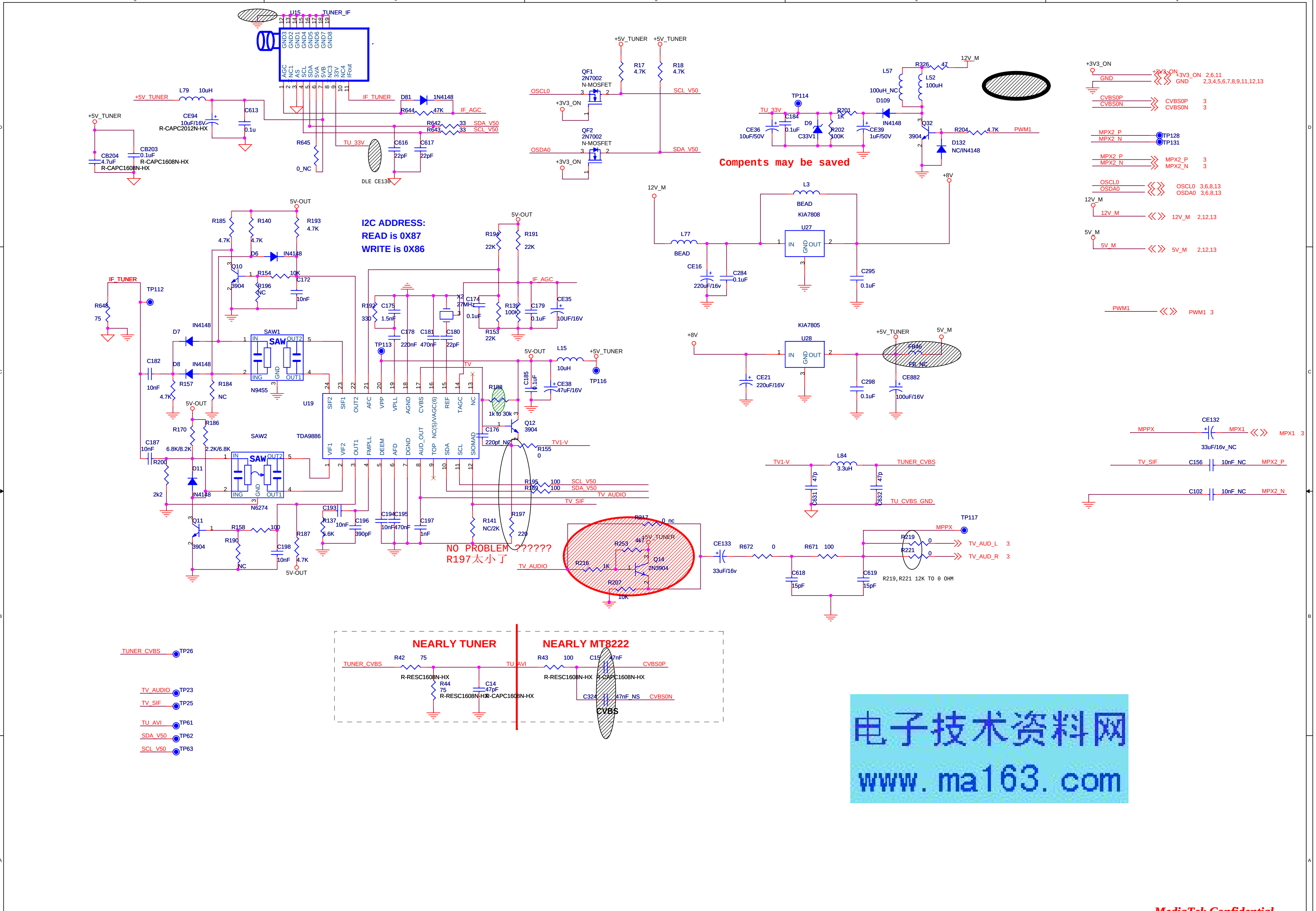
MediaTek (ShenZhen) Inc.			
Title	CVBS/ S-Video / VGA		
Size C	Document Number MT8222	Drawn: Jiu.Ni	Rev 1
Date: 2008/1/25		Sheet 8 of 13	



MediaTek Confidential

MediaTek (ShenZhen) Inc.

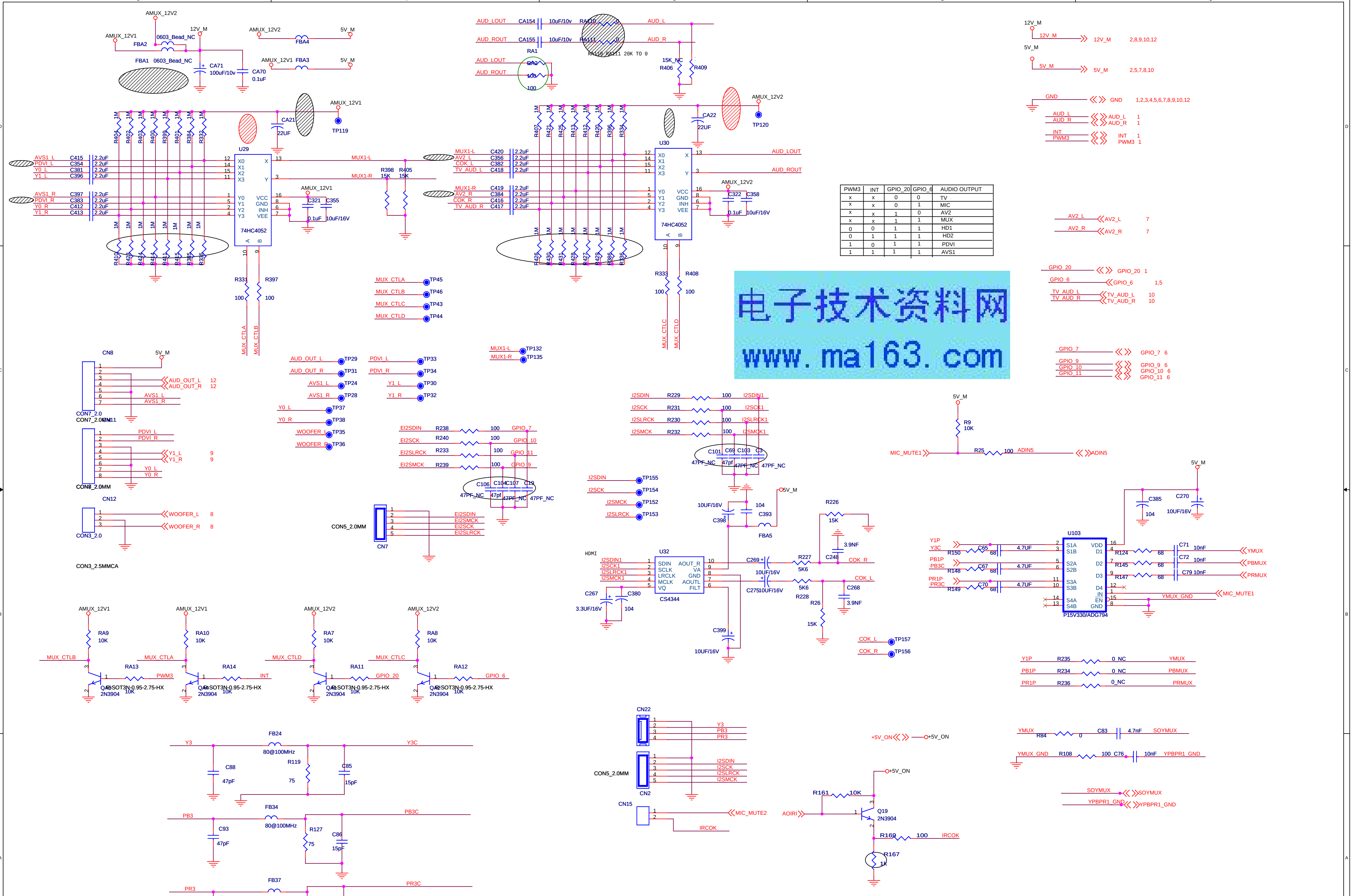
Title	YPbPr		
Size: C	Document Number: MT8222	Drawn: Jiu.Ni	Rev: 1
Date: 2008/1/25		Sheet 9 of 13	



MediaTek Confidential

MediaTek (ShenZhen) Inc.

Title	RF Tuner		
Size C	Document Number MT8222	Drawn: Jiu.Ni	Rev 1
Date: 2008/1/25		Sheet 10 of 13	



PWM3	INT	GPIO_20	GPIO_6	AUDIO OUTPUT
x	x	0	0	TV
x	x	0	1	MIC
x	x	1	0	AV2
x	x	1	1	MUX
0	0	1	1	HD1
0	1	1	1	HD2
1	0	1	1	PDVI
1	1	1	1	AVS1

MediaTek Confidential

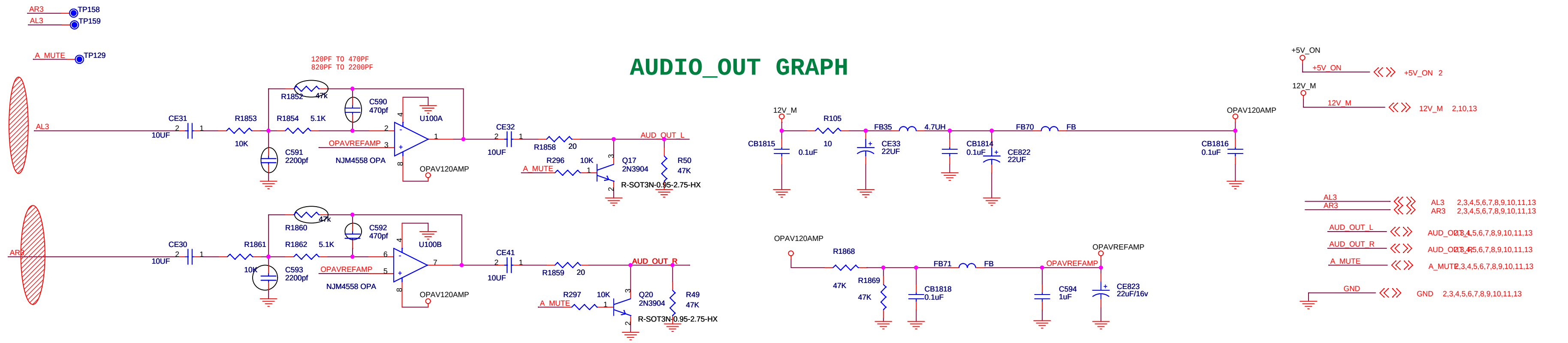
MediaTek (ShenZhen) Inc.

Title: AudioMUX/SPDIF

Size: Custom | Document Number: MT8222 | Drawn: Jiu.Ni | Rev: 1

Date: 2008/1/25 | Sheet 11 of 12

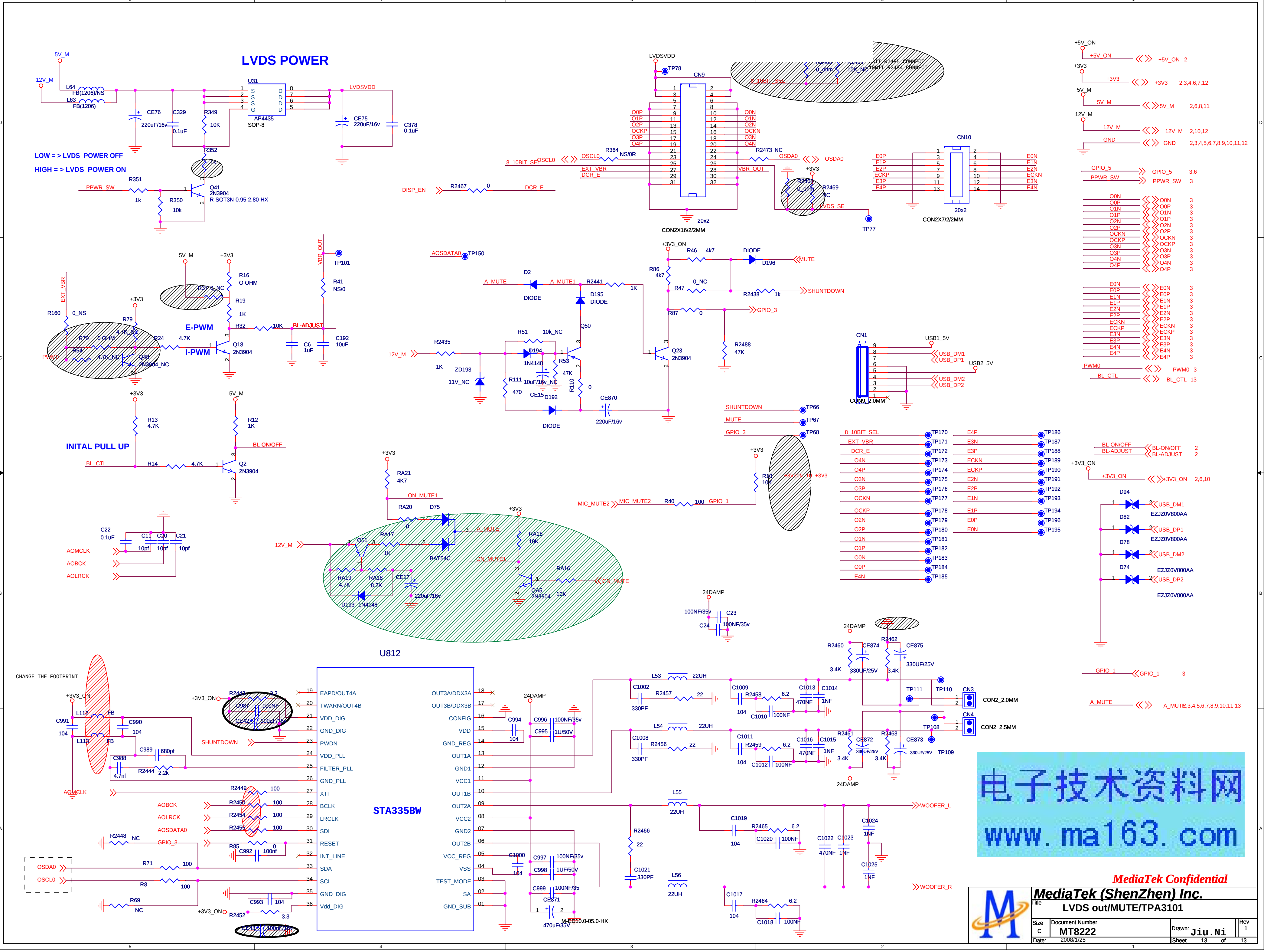
AUDIO_OUT GRAPH



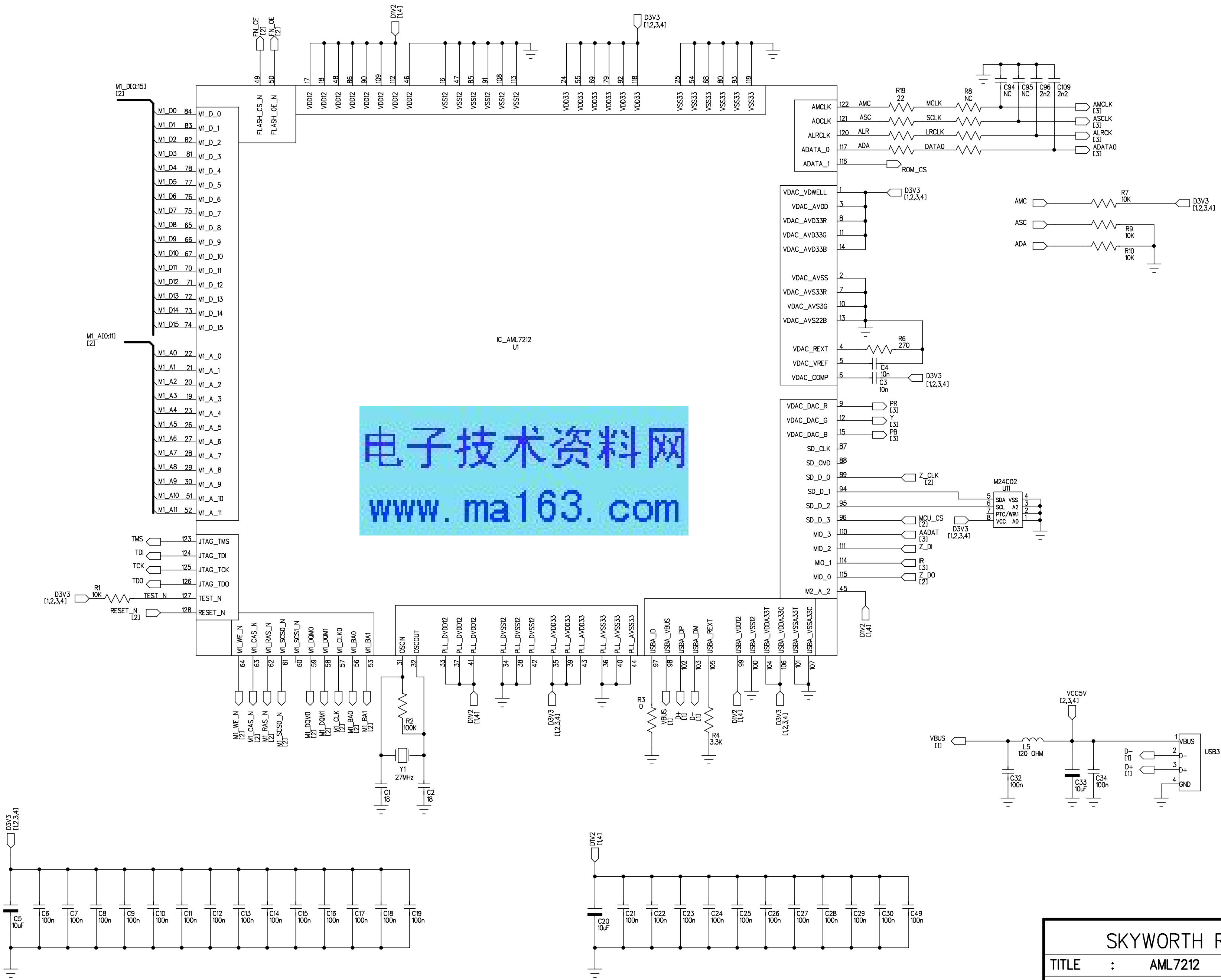
MediaTek Confidential

MediaTek (ShenZhen) Inc.

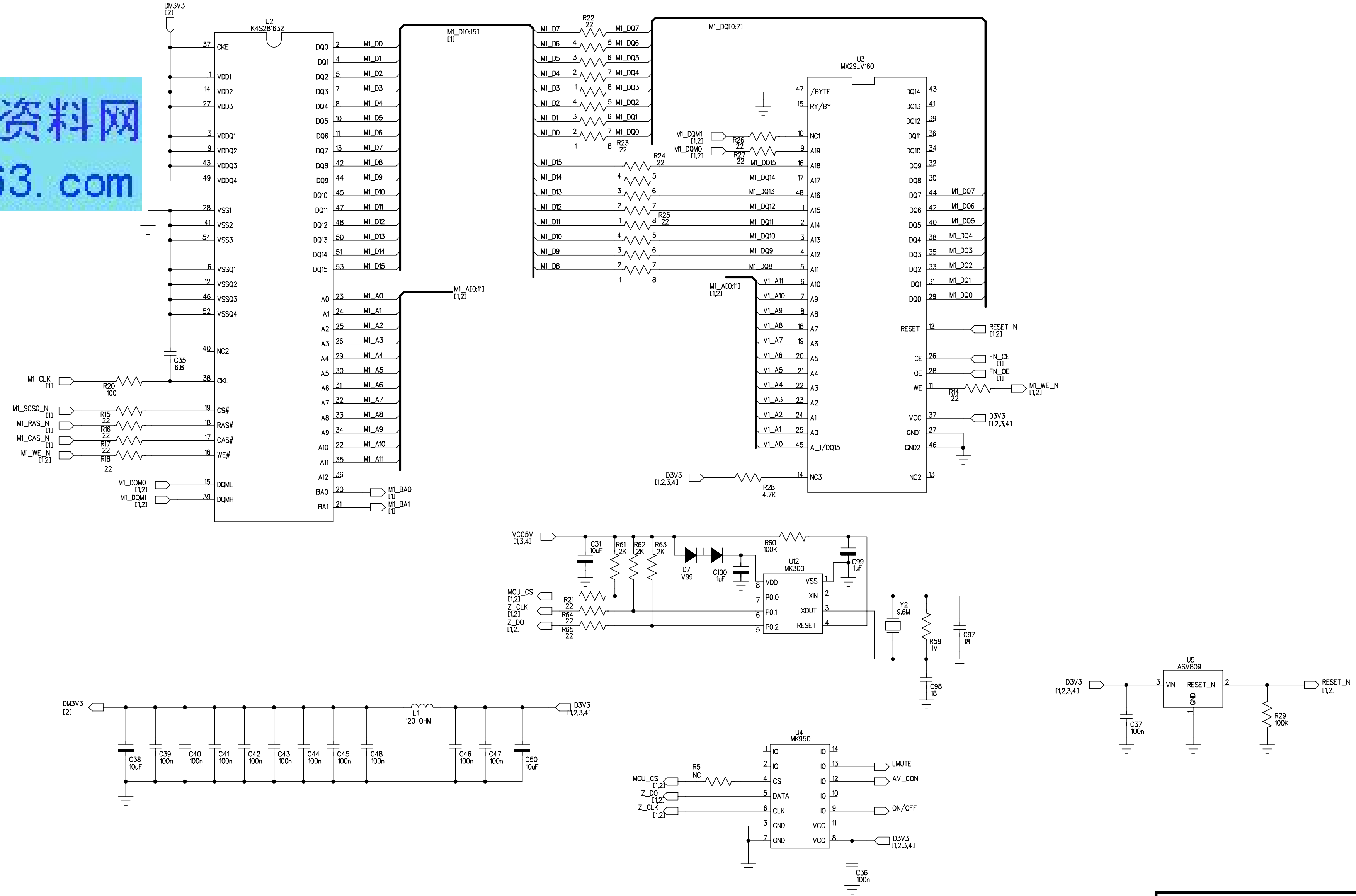
Title	HP_Out/Audio AMP		
Size: Custom	Document Number: MT8222	Drawn: Jiu.Ni	Rev: 1
Date: 2008/1/25		Sheet 12 of 13	



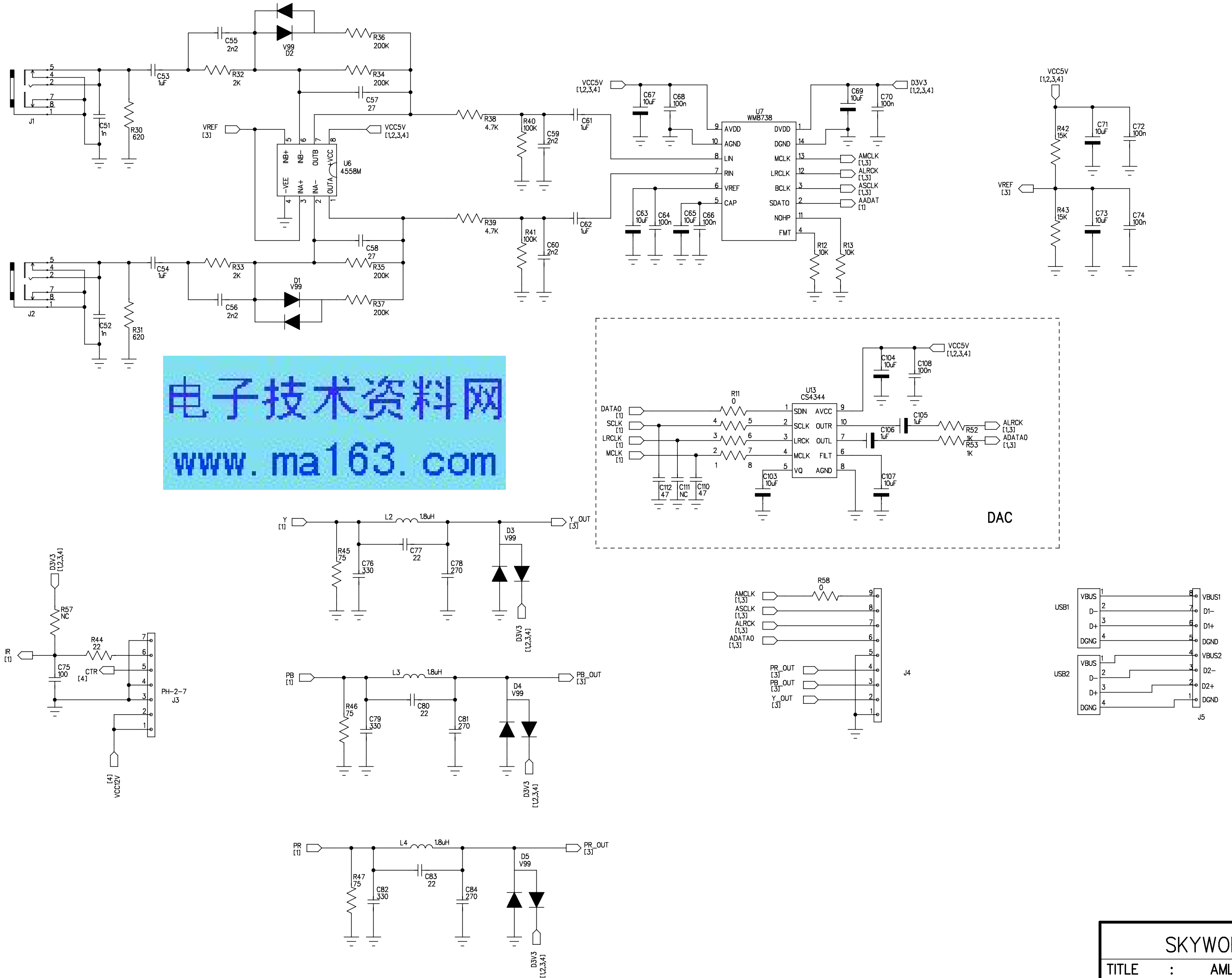
LVDS POWER
LOW = > LVDS POWER OFF
HIGH = > LVDS POWER ON
AP4435
SOP-8
E-PWM
I-PWM
INITAL PULL UP
CON2X16/2/2MM
CON2X7/2/2MM
CHANGE THE FOOTPRINT
U812
STA335BW
CON2_2.0MM
CON2_2.5MM
电子技术资料网
www.ma163.com
MediaTek Confidential
MediaTek (ShenZhen) Inc.
LVDS out/MUTE/TPA3101
Document Number
MT8222
Drawn:
Jiu.Ni
Date:
2008/1/25
Sheet 13 of 13



SKYWORTH R&D			
TITLE :	AML7212		
MODEL :			
DRAW NO.:			
DATE :	2008.10.10	SHEET:	1/4
DRAWN BY:	CHEN.H.C	VER:	0.0

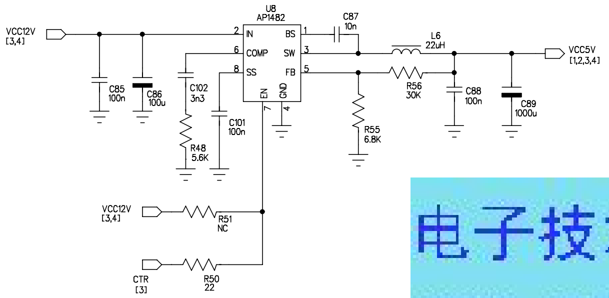


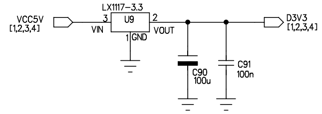
SKYWORTH R&D			
TITLE :	AML7212		
MODEL :			
DRAW NO.:			
DATE :	2008.10.10	SHEET:	2/4
DRAWN BY:	CHEN.H.C	VER:	0.0

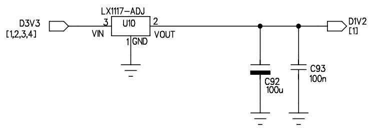


SKYWORTH R&D

TITLE :	AML7212		
MODEL :			
DRAW NO.:			
DATE :	2008.10.10	SHEET:	3/4
DRAWN BY:	CHEN.H.C	VER:	0.0







SKYWORTH R&D			
TITLE	: AML7212		
MODEL	:		
DRAW NO.:			
DATE	: 2008.10.10	SHEET:	4/4
DRAWN BY:	CHEN.H.C	VER:	0.0