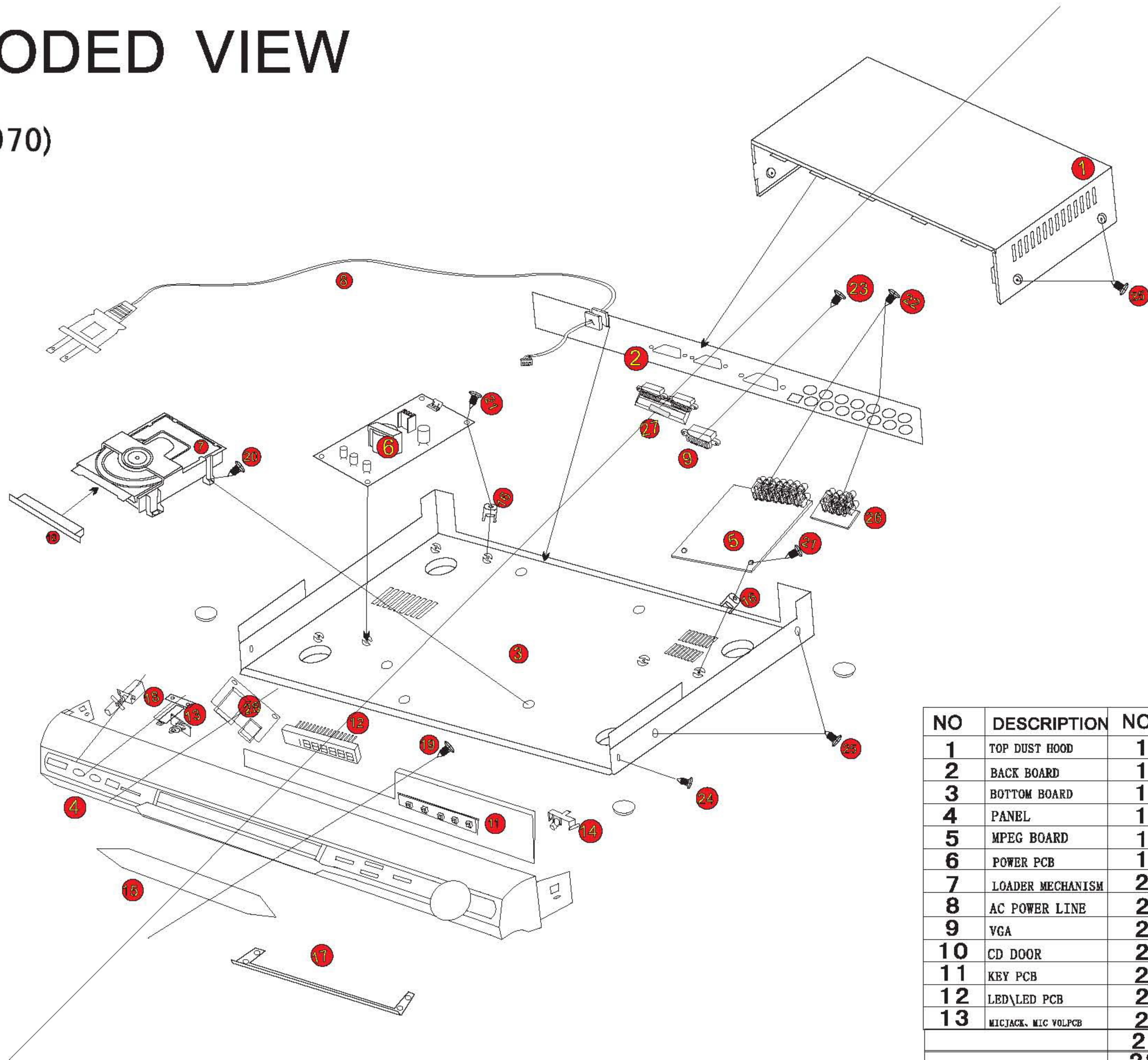


# EXPLODED VIEW

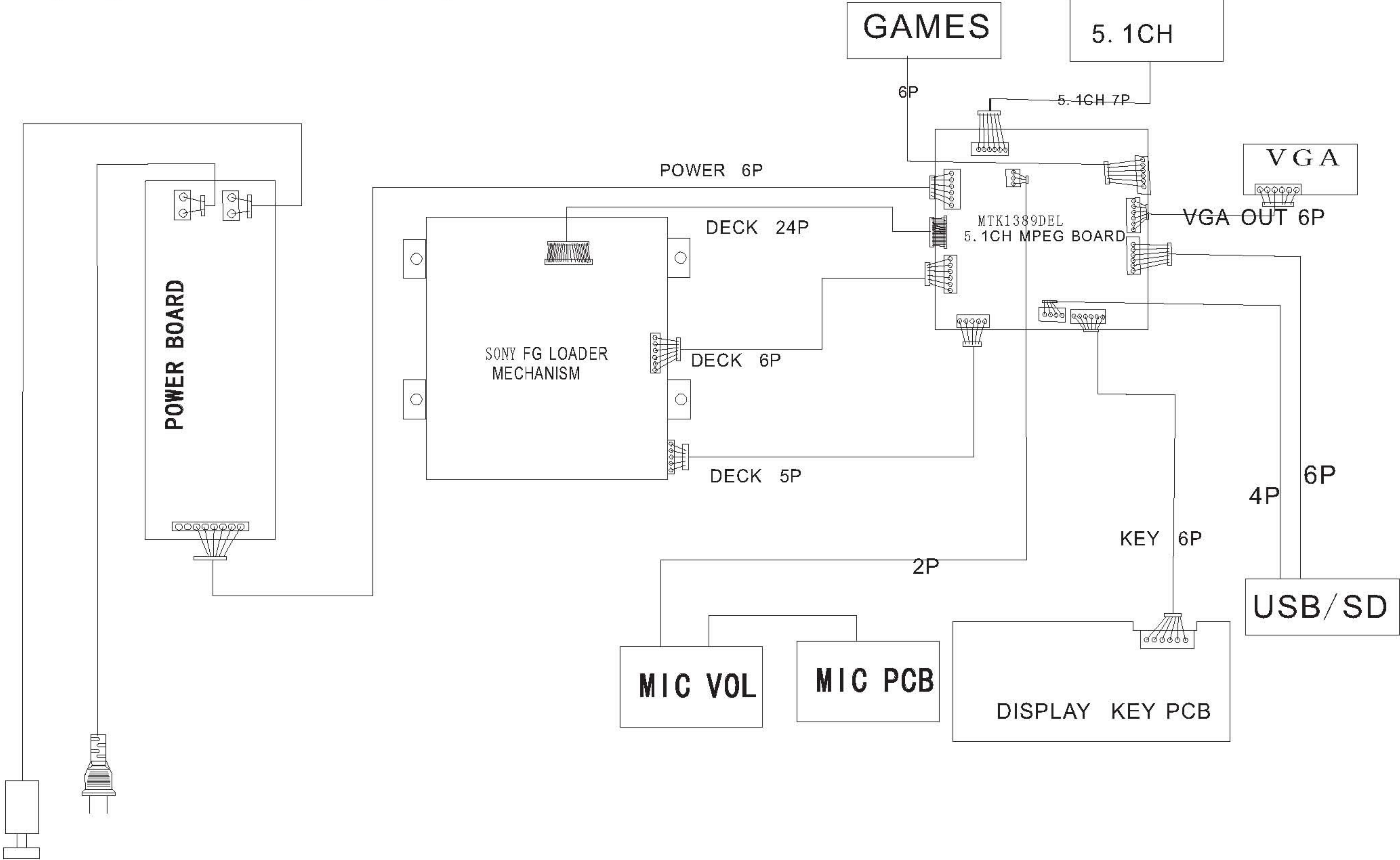
(DVD-6970)



NO	DESCRIPTION	NO	DESCRIPTION
1	TOP DUST HOOD	14	KEY
2	BACK BOARD	15	Mirror slice
3	BOTTOM BOARD	16	CRESCENT PLASTIC PILLAR
4	PANEL	17	DISPLAY
5	MPEG BOARD	18	POWER SWITCH
6	POWER PCB	19	SCREW2. 8*8PT
7	LOADER MECHANISM	20	SCREW3*7BM
8	AC POWER LINE	21	SCREW3*13BM/3*17BM
9	VGA	22	SCREW3*8BA
10	CD DOOR	23	SCREW3*8◇
11	KEY PCB	24	SCREW3*4KM
12	LED\LED PCB	25	SCREW3*6PWM
13	MICJACK, MIC VOLPCB	26	5. 1CH6P
		27	GAMES
		28	USB. /SD

# SCHEMATIC DIAGRAM

(MODEL : DVD-6970)



# DECODER BOM LIST

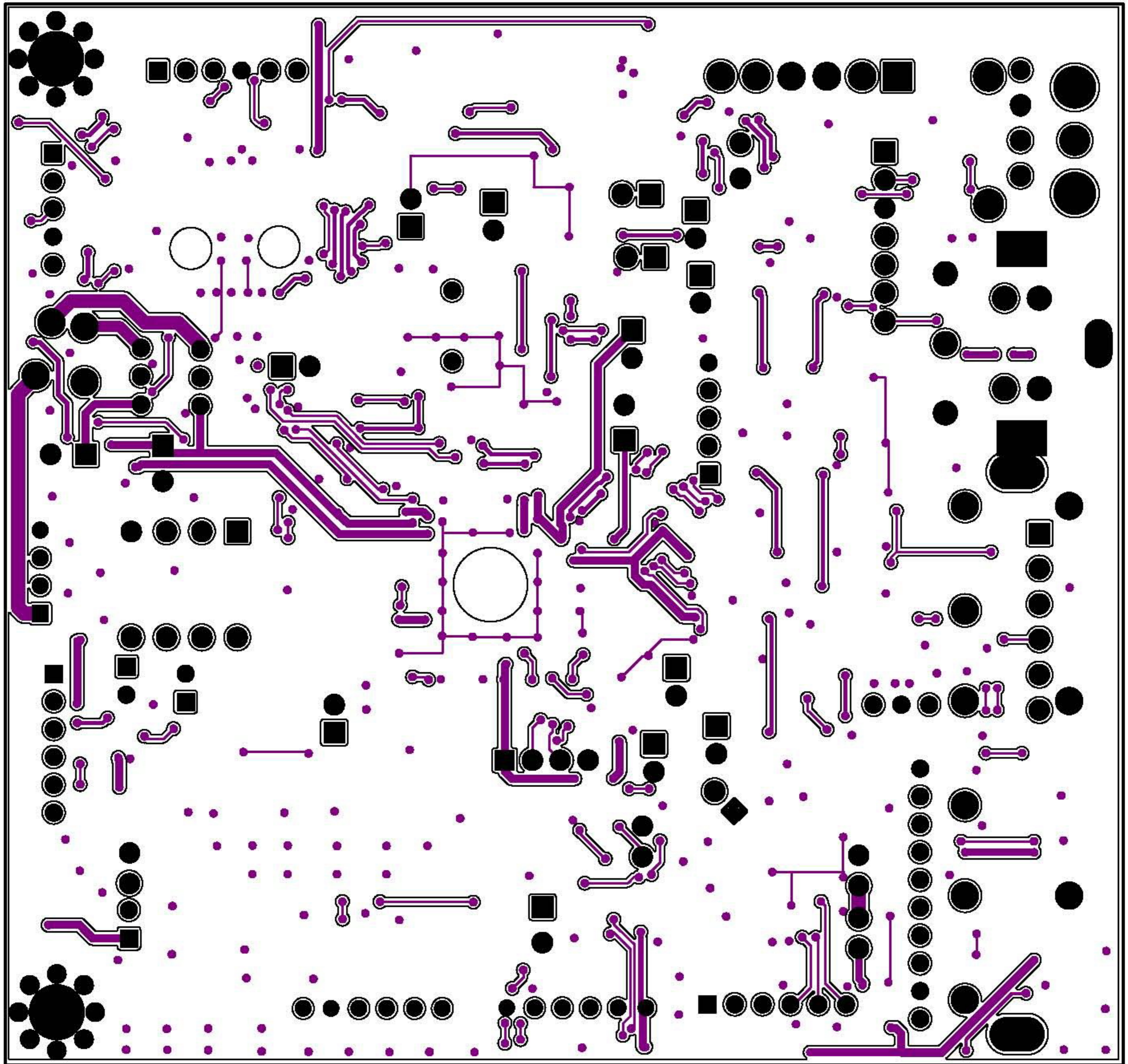
Item	Description	Type	Spec	Location	Qty	Remark
1	SMD Capacitor	104	0402	C1 C6 C7 C210 C214 C220 C221 C230 C400 C502 C603 C607 CB2 CB4 CB101 CB105 CB207 CB208 CB209 CB210 CB211	30	
2	SMD Capacitor	10P	0402	C606	1	
3	SMD Capacitor	33P	0402	C206 C207	2	
4	SMD Capacitor	101	0402	C233 C501 C508 C512 C516 C521 C525 C600 C604 C605 C611 C612 C613 C614 C615	15	
5	SMD Capacitor	121	0402	C2	1	
6	SMD Capacitor	221	0402	C235	1	
7	SMD Capacitor	331	0402	C228 C229	2	
8	SMD Capacitor	102	0402	C8 C500 C511 C515 C520 C524 C528	7	
9	SMD Capacitor	152	0402	C215	1	
10	SMD Capacitor	222	0402	C3 C4	2	
11	SMD Capacitor	682	0402	C208	1	
12	SMD Capacitor	153	0402	C231	1	
13	SMD Capacitor	105	0402	C236 CE503 CE509 CE522 CE526	5	
14	SMD Capacitor	4. 7UF	0603	C100 C101 C102 C103 C104 C105	6	
15	SMD Capacitor	10UF	0805	C9 C10 C212	3	
16	SMD Resistor	0R	0402	R21 R22 R25 R36 R37 R211 R217 R219 R220 R221 R222 R223 R227 R228 R232 R238 R249 R255 R256 R257 R405 R406	22	
17	SMD Resistor	1R	0402	R209	1	
18	SMD Resistor	4. 7R	0402	R234 R235	2	
19	SMD Resistor	10R	0402	R253	1	
20	SMD Resistor	33R	0402	R404 R607 R631	3	
21	SMD Resistor	75R	0402	R615 R620 R628 R637	4	
22	SMD Resistor	100R	0402	R5 R8 R20 R505 R510 R514 R518 R524 R532 R536 R603 R605	12	
23	SMD Resistor	560R	0402	R214	1	
24	SMD Resistor	680R	0402	R621	1	
25	SMD Resistor	1K	0402	R26 R31 R32 R33 R34 R35 R38 R39 R268 R270 R622	11	
26	SMD Resistor	2. 2K	0402	R28 R635	2	
27	SMD Resistor	4. 7K	0402	R1 R2 R3 R16 R41 R207 R271 R316 R516 R632	10	
28	SMD Resistor	4. 7K*4	0603	RN1	1	
29	SMD Resistor	5. 1K	0402	R231 R504 R509 R513 R522 R531 R535	7	
30	SMD Resistor	7. 5K	0402	R27	1	
31	SMD Resistor	8. 2K	0402	R17	1	

# DECODER BOM LIST

Item	Description	Type	Spec	Location	Qty	Remark
32	SMD Resistor	10K	0402	R9 R10 R11 R12 R13 R14 R15 R29 R30 R208 R213 R216 R218 R244 R309 R408 R409 R410 R503 R508 R512 R521 R530 R534	25	
33	SMD Resistor	11K	0402	R18	1	
34	SMD Resistor	15K	0402	R226 R242	2	
35	SMD Resistor	20K	0402	R19	1	
36	SMD Resistor	27K	0402	R239 R240	2	
37	SMD Resistor	30K	0402	R501 R507 R511 R515 R528 R533	6	
38	SMD Resistor	39K	0402	R4	1	
39	SMD Resistor	100K	0402	R200 R215 R224 R542 R543 R544 R545 R546 R547	9	
40	SMD Inductance	1UH	0603	L5	1	
41	SMD Inductance	1.8UH	0603	L602 L603 L604 L605	4	
42	SMD Inductance	10UH	0603	L201 L202 L206 L211 L212	5	
43	SMD Ferrite Bit	FB	0603	L1 L2 L204 L207 L400	5	
44	SMD Diode	BAT54C	SOT-23	D200	1	
45	SMD Transistor	3018	SOT-23	Q203 Q204	2	
46	SMD Transistor	3904	SOT-23	Q202 Q407 Q501 Q502 Q503 Q506 Q507 Q508	8	
47	SMD Transistor	3906	SOT-23	Q4 Q5 Q409	3	
48	SMD Transistor	8050	SOT-23	Q1	1	
49	SMD Transistor	8550	SOT-23	Q205 Q208	2	
50	Zener Diodes	5.1V	1/2W	D2	1	
51	Diode	IN4148	1/2W	D1 D3 D6	3	
52	Diode	5399		D4 D5	2	
53	Transistor	SS8550/1.5A	T0-92	Q2 Q3	2	
54	Electrolytic Capacitor	10uF/25V	4mmx7mm	C5 C213 CE4 CE201 CE211	5	
55	Electrolytic Capacitor	47uF/16V	4mmx7mm	CE1 CE2 CE9 CE110 CE203 CE204 CE208 CE209	8	
56	Electrolytic Capacitor	100uF/10v	5mmx7mm	CE400	1	
57	Electrolytic Capacitor	100uF/10v	5mmx7mm	CE5	1	
58	Electrolytic Capacitor	220uF/10v	6.3mmx7mm	CE7	1	
59	Electrolytic Capacitor	220uF/10v	6.3mmx7mm	CE3 CE8 CE106 CE108	4	
60	Crystal Oscillator	27MHZ		Y200	1	
61	Socket	24P		HA200	1	
62	Socket	3P/2.0mm		CN13	1	
63	Socket	4P/2.0mm		CN9	1	
64	Socket	5P/2.0mm		CN8	1	

# DECODER BOM LIST

Item	Description	Type	Spec	Location	Qty	Remark
65	Socket	6P/2.0mm		CN6 CN7 CN10 CN11 CN12	5	
66	Socket	7P/2.0mm		CN1	1	
67	Socket	10P/2.0mm		CN3	1	
68	Socket	6P/2.54mm		CON1	1	
69	IC	MTK1389L/K		U200	1	
70	IC	SPI FLASH-DIP8	EON FLASH	U5	1	
71	IC	CD5888		U3	1	
72	IC	4558		U2 U500 U501 U502	4	
73	IC	4*16		U401	1	
74	Terminal	SPDIF		AV2	1	
75	Terminal	AV+SVIDEO		AV1	1	
76	Terminal	AV3X2		J1	1	
77	Radiator	14*14*6mm		U200	1	
78	PCB	160.8*152.6mm*1.2			1	



- 1 INDEX & POWER, RESET
- 2 MT1389L/K LQFP128
- 3 MEMORY & CARDS
- 4 AV PORT

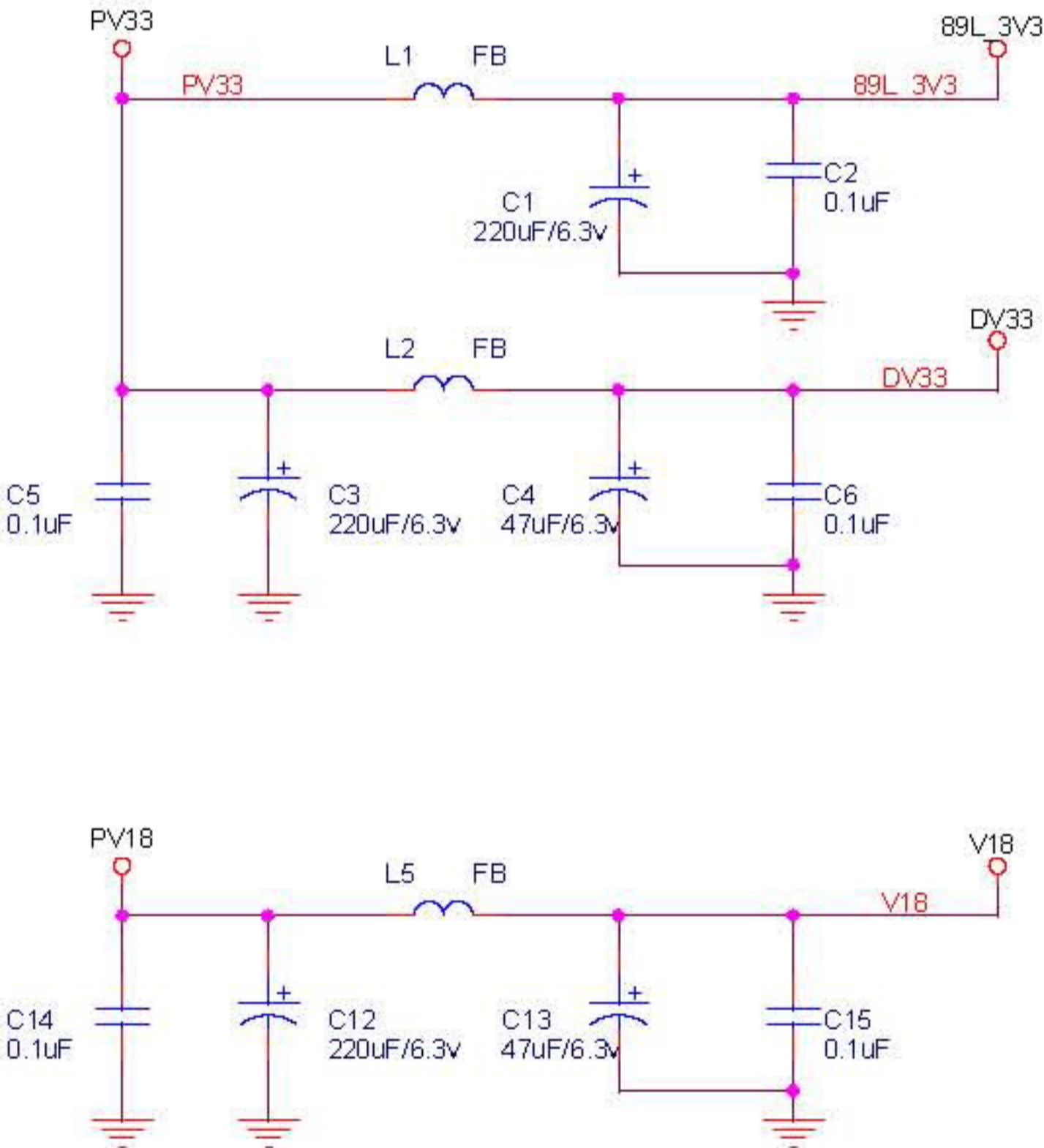
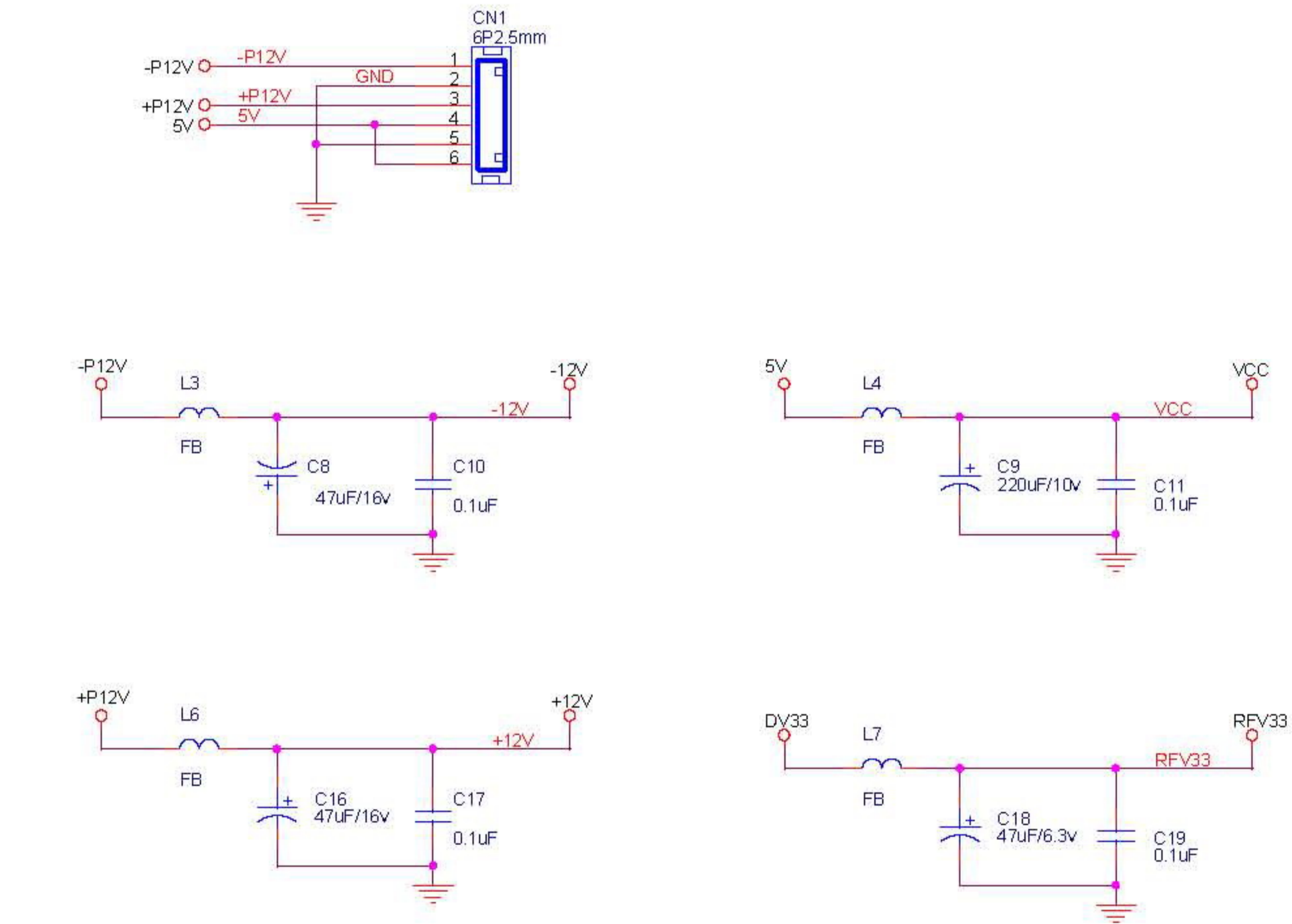
MT1389L/K Features Support List  
(MIC/USB/MS/SD Only for MT1389L)

Item	Features
1	5.1CH + USB/MS/SD + VFD + AMUTE
2	
3	
4	

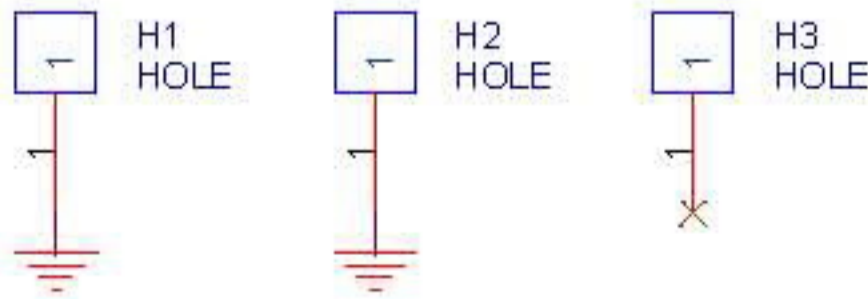
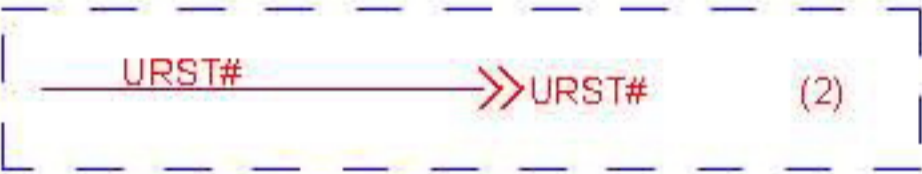
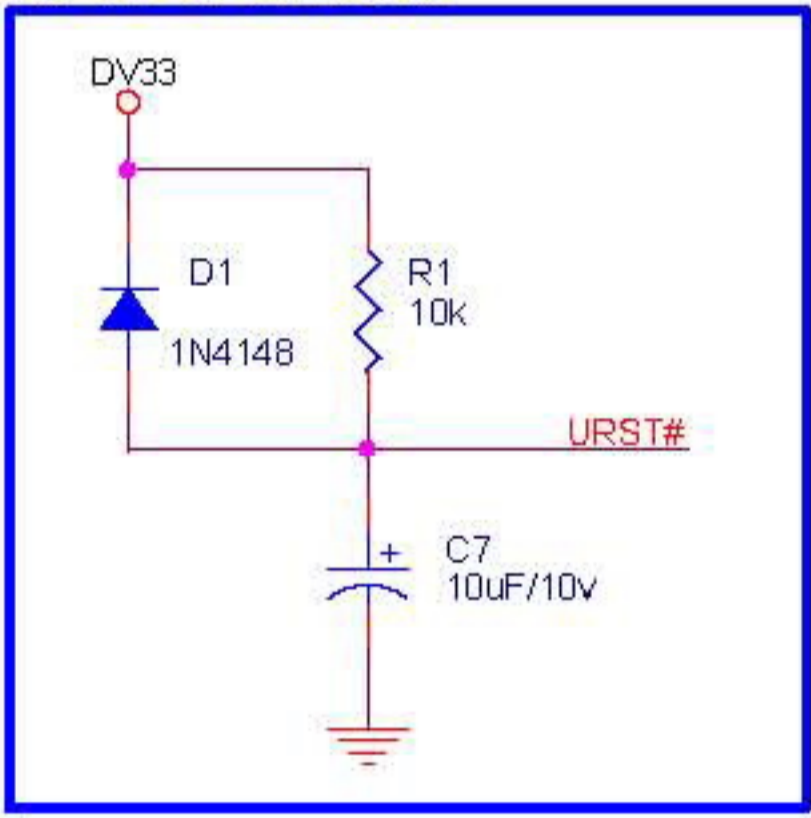
Rev	History	Date
V1	The original released, Base on 3-SYHI89LSD1-V10.DSN	2006/12/12

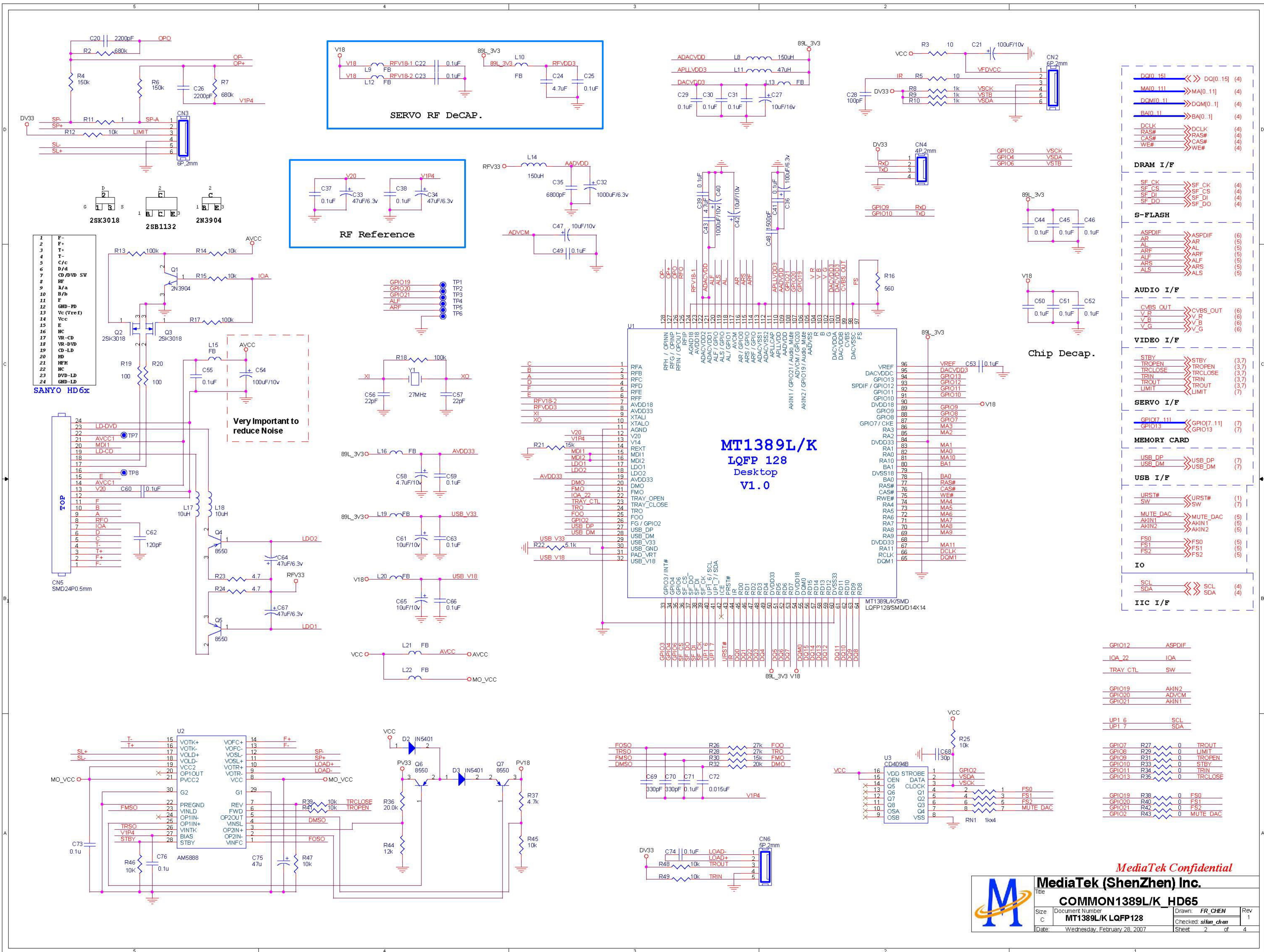
MT1389L/K General GPIO List

Name	PIN	Features
GPIO3	33	VSK
GPIO4	34	VSDA
GPIO6	35	VSTB
GPIO7	87	TROUT
GPO_A	22	IOA
GPO_B	23	SW
GPIO2	26	AUDIO_MUTE
GPIO8	88	LIMIT
GPIO9	89	TROPEN
GPIO10	91	STBY
GPIO11	92	TRIN
GPIO12	93	ASPDIF
GPIO13	94	TRCLOSE
GPIO19	106	AKIN1
GPIO20	107	ADVCM
GPIO21	108	AKIN2



RESET Circuit

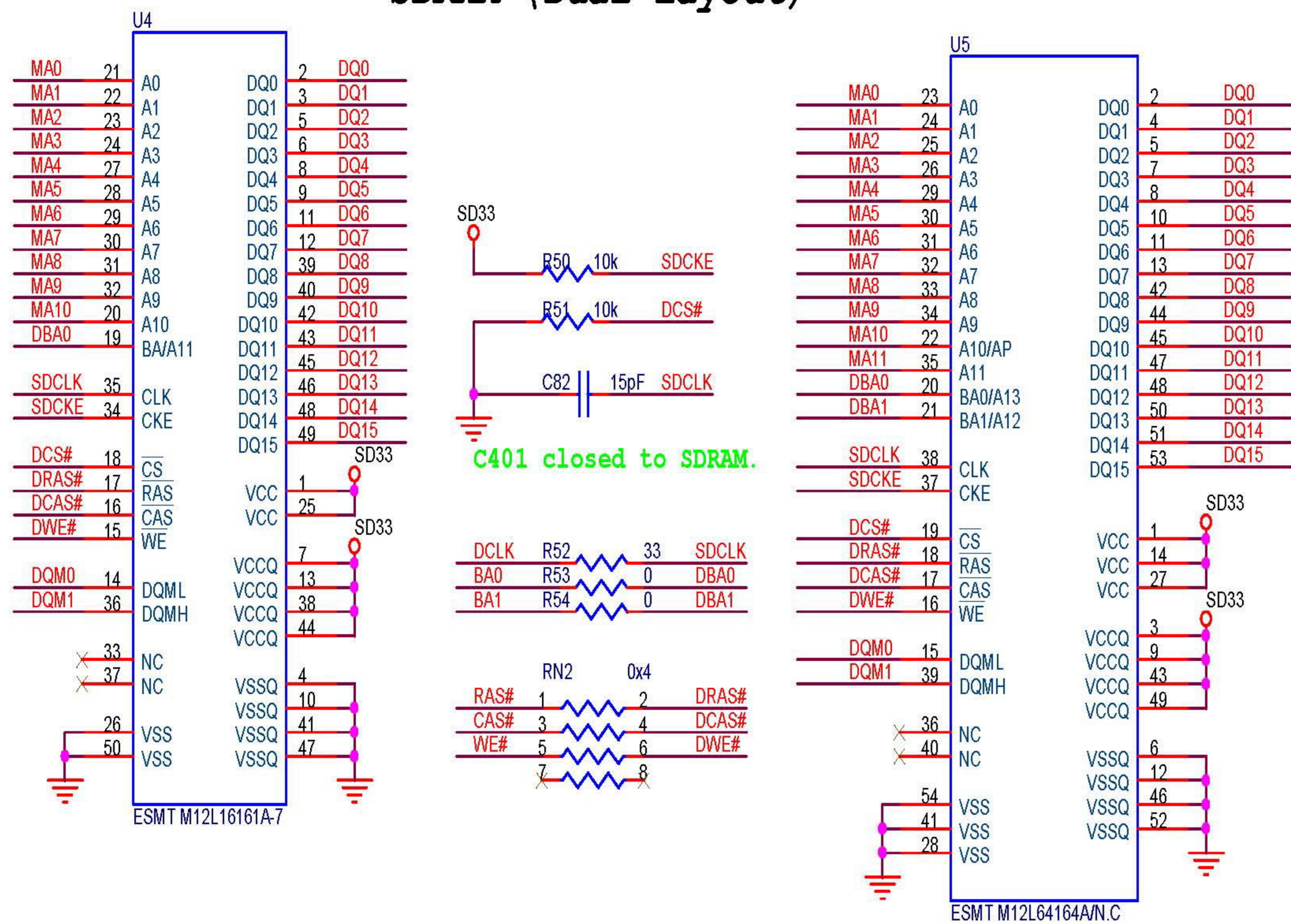


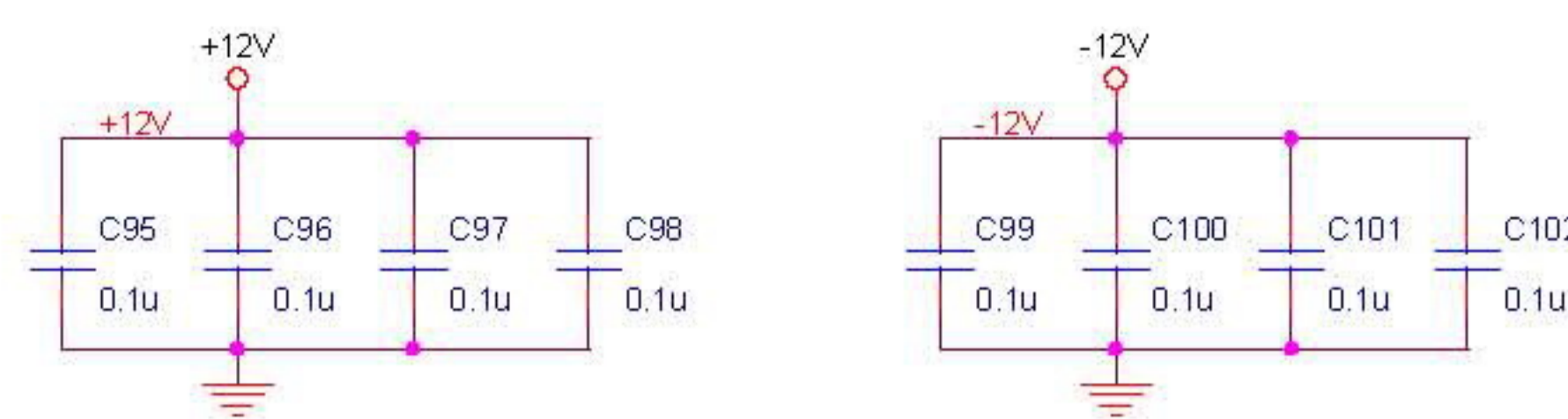
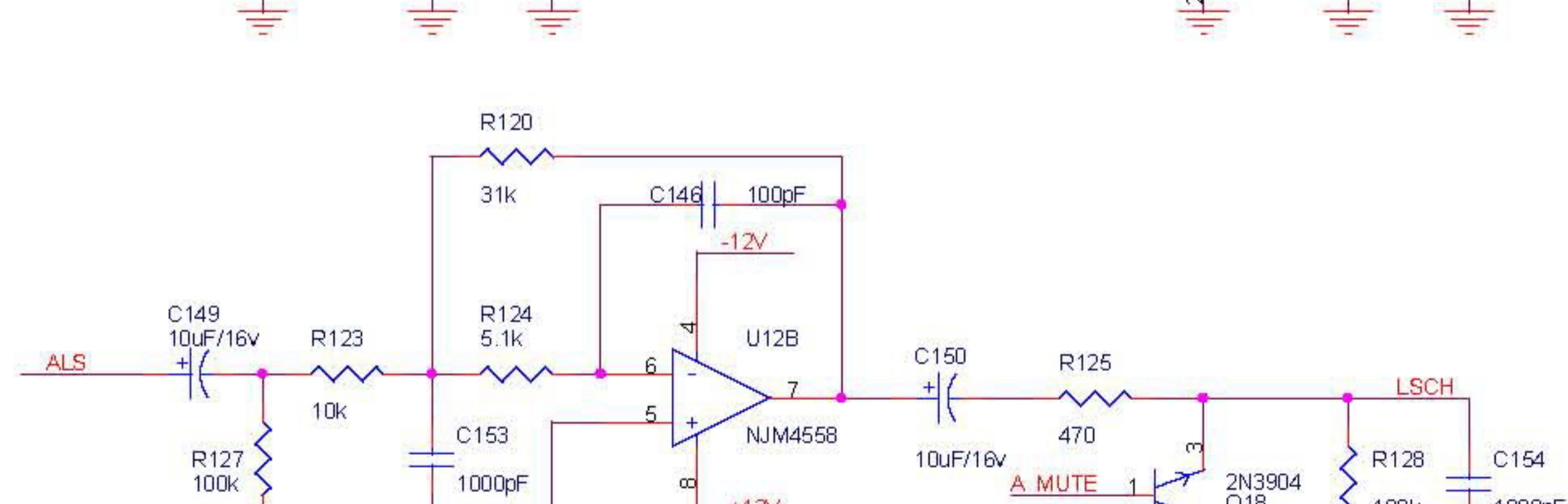
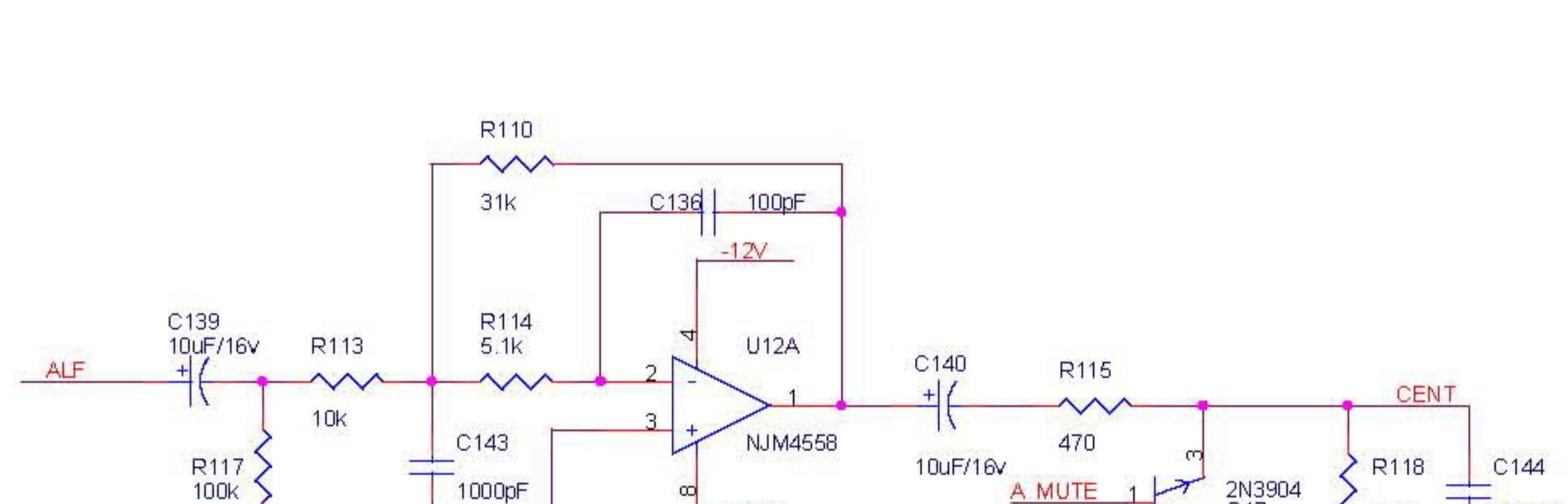
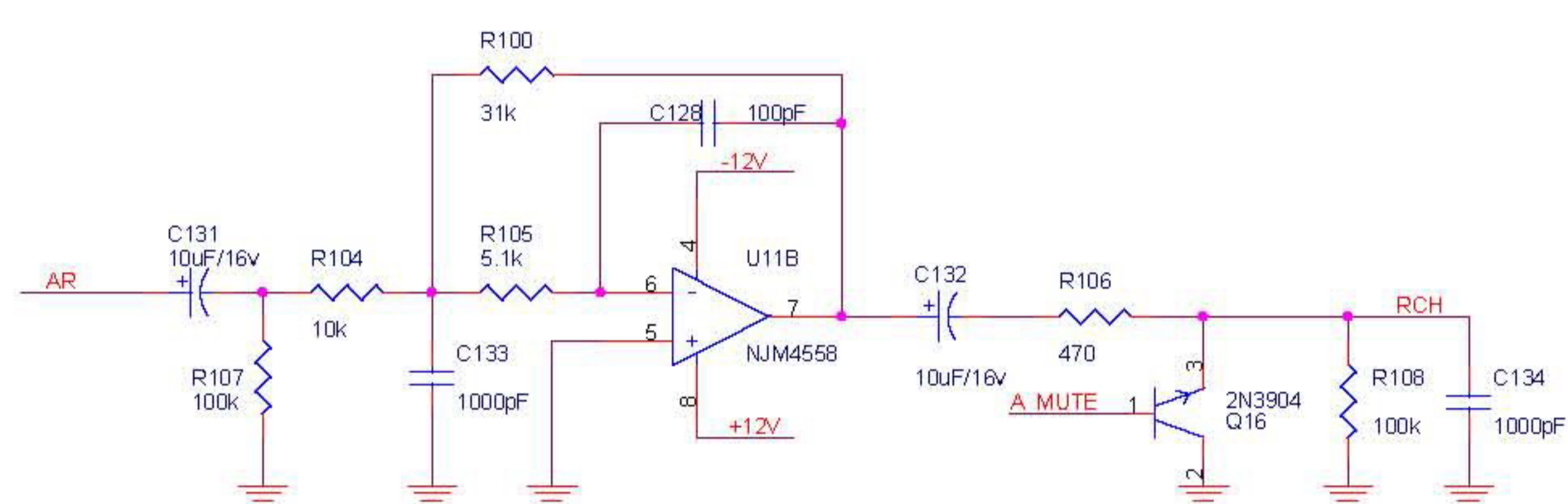
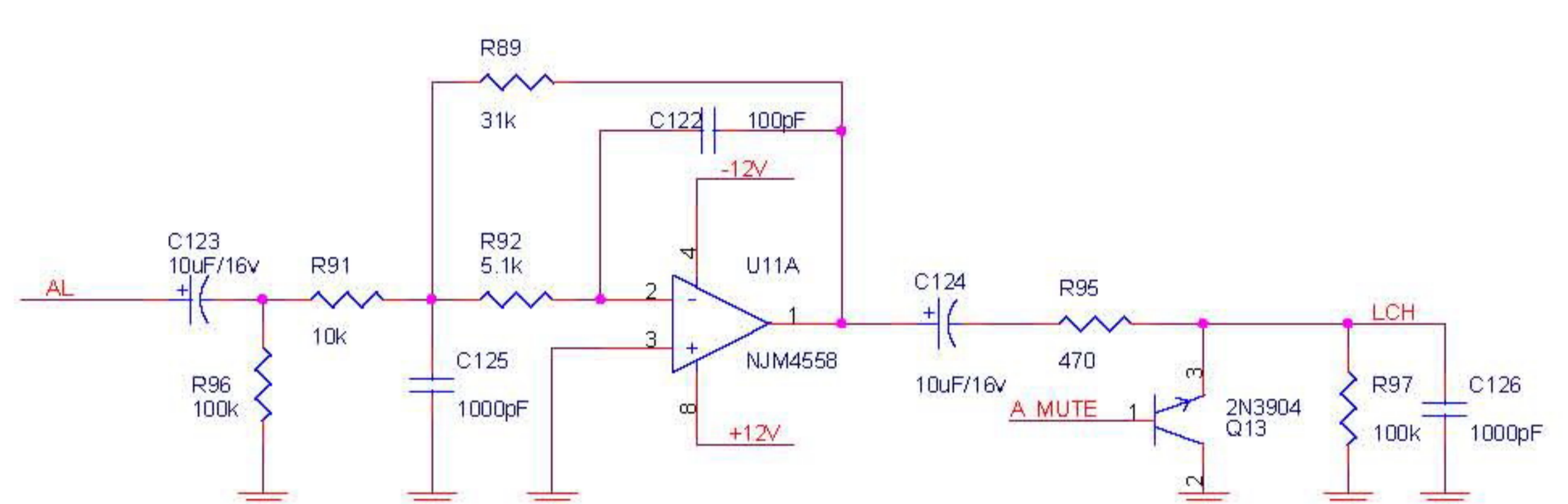
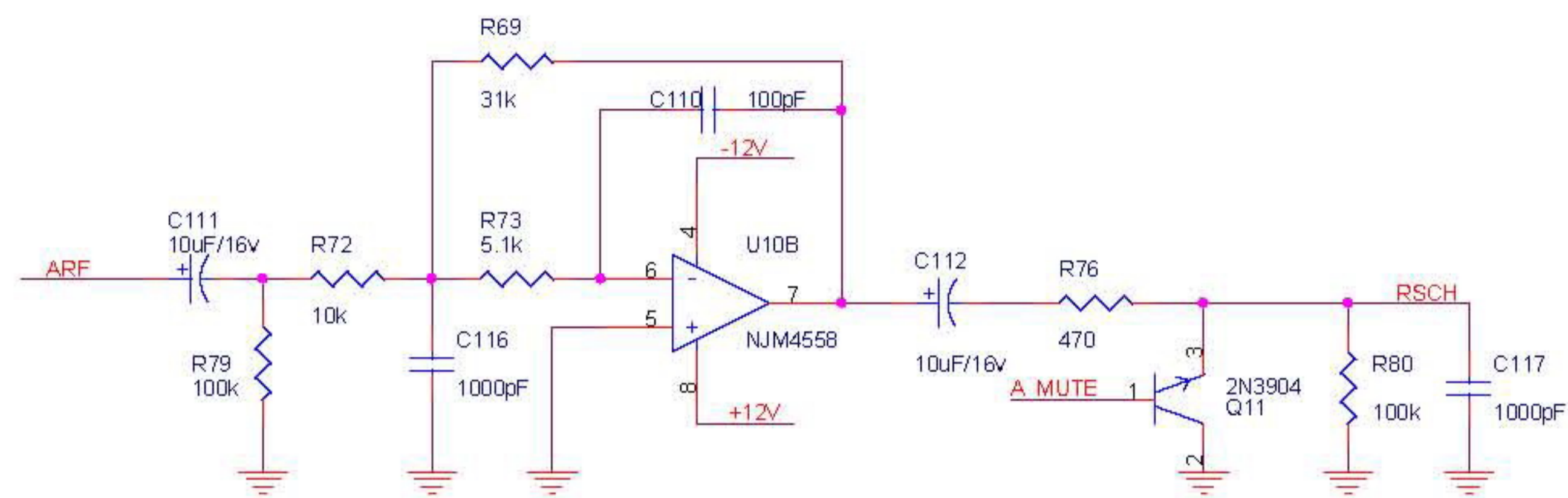
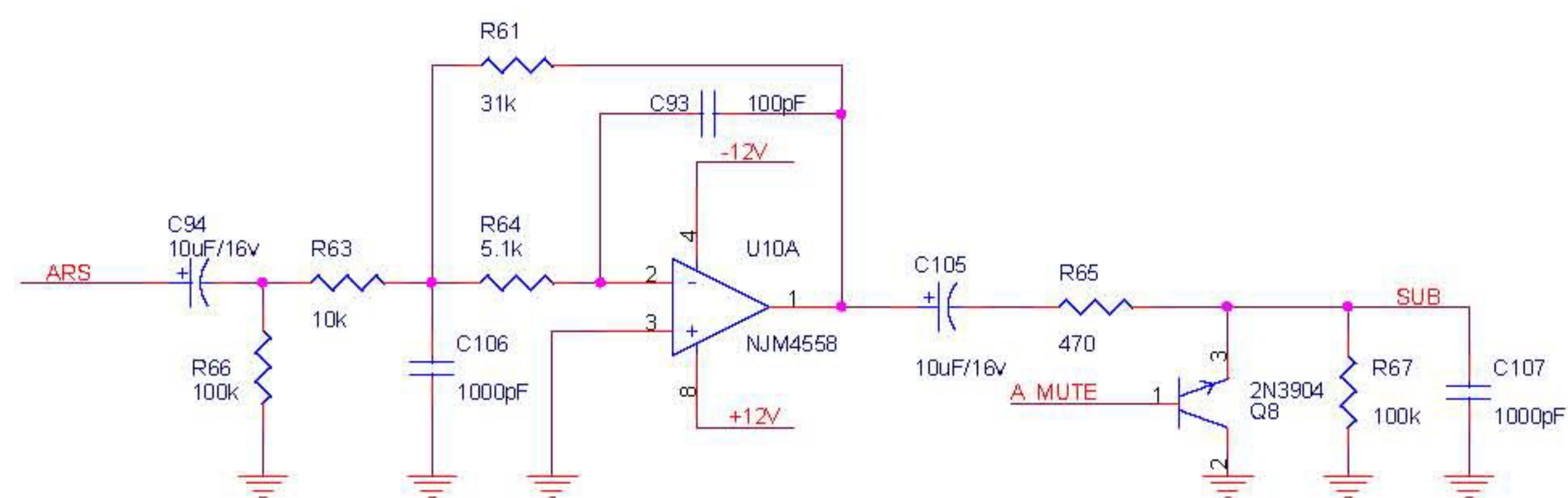


MediaTek Confidential

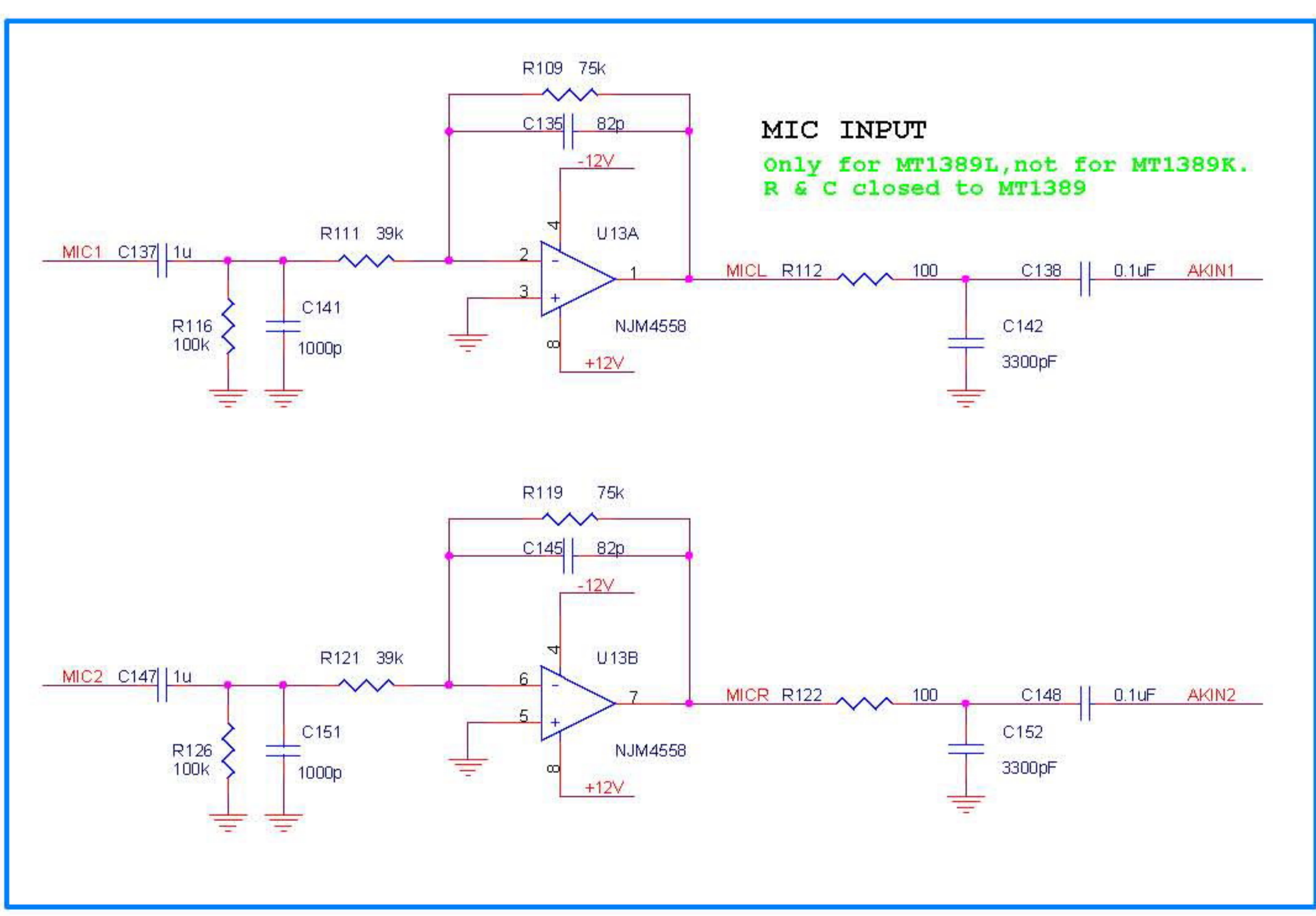
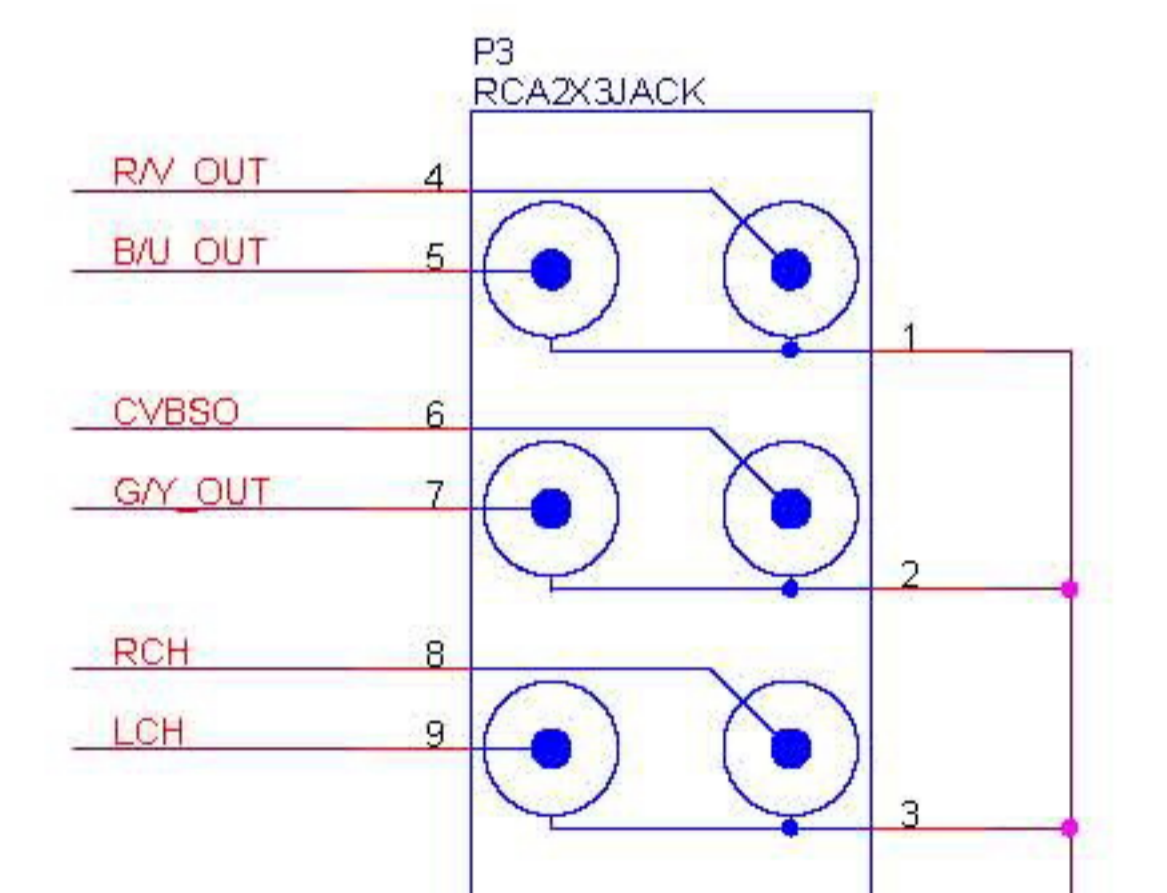
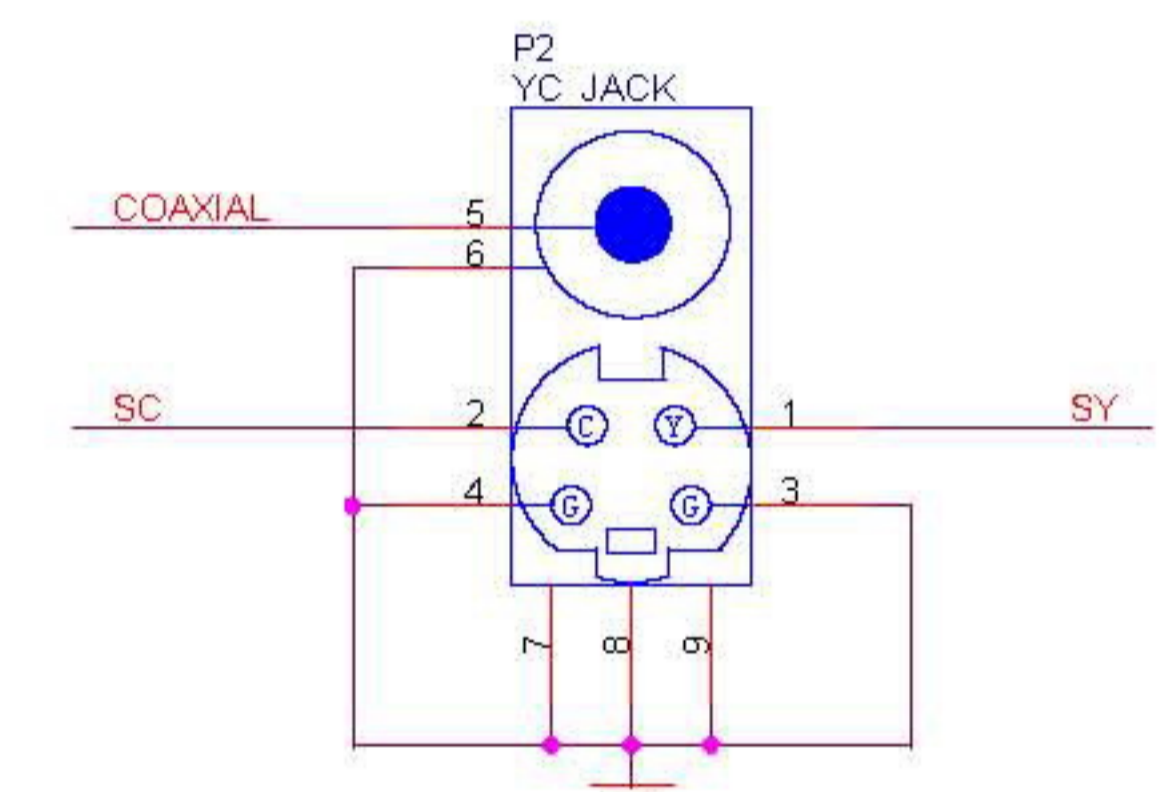
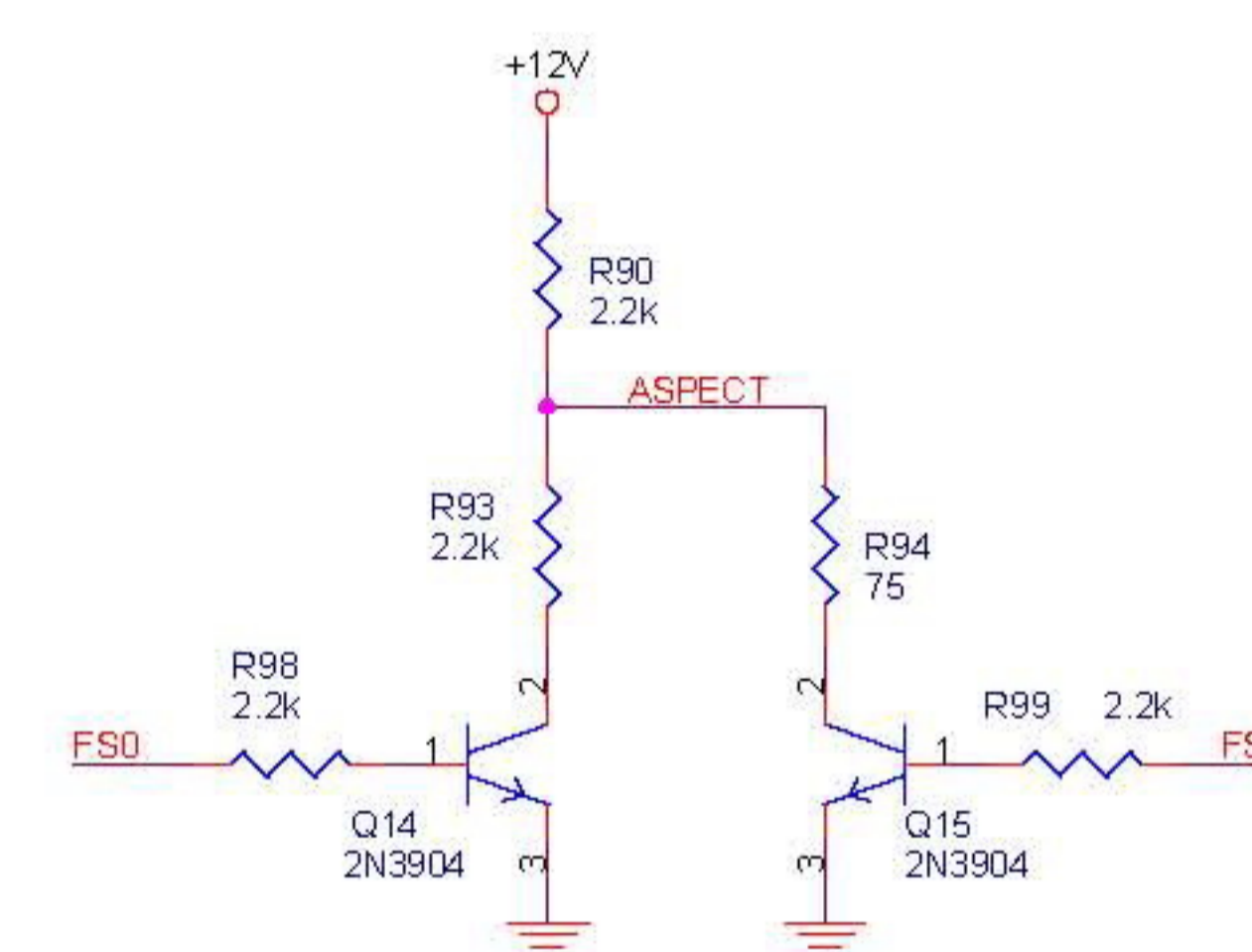
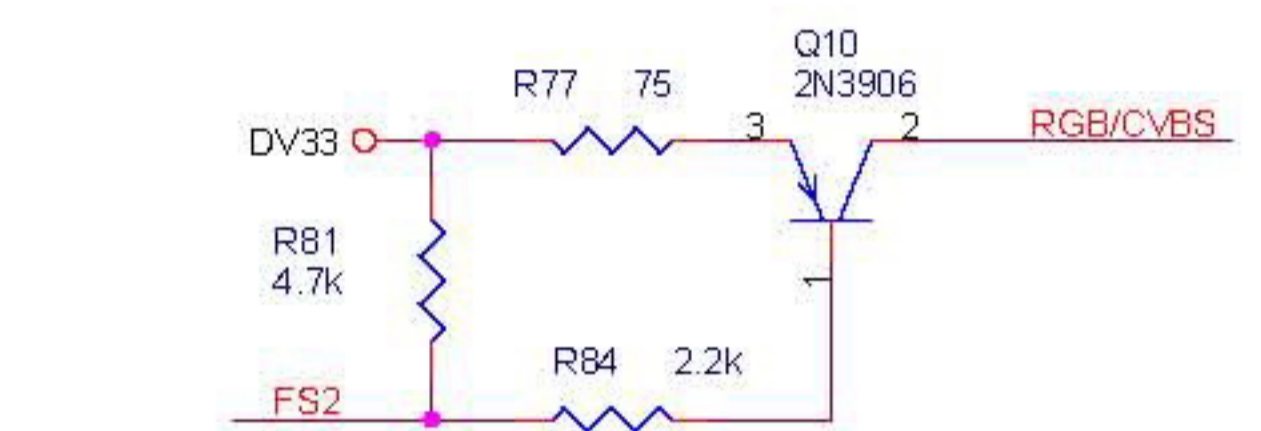
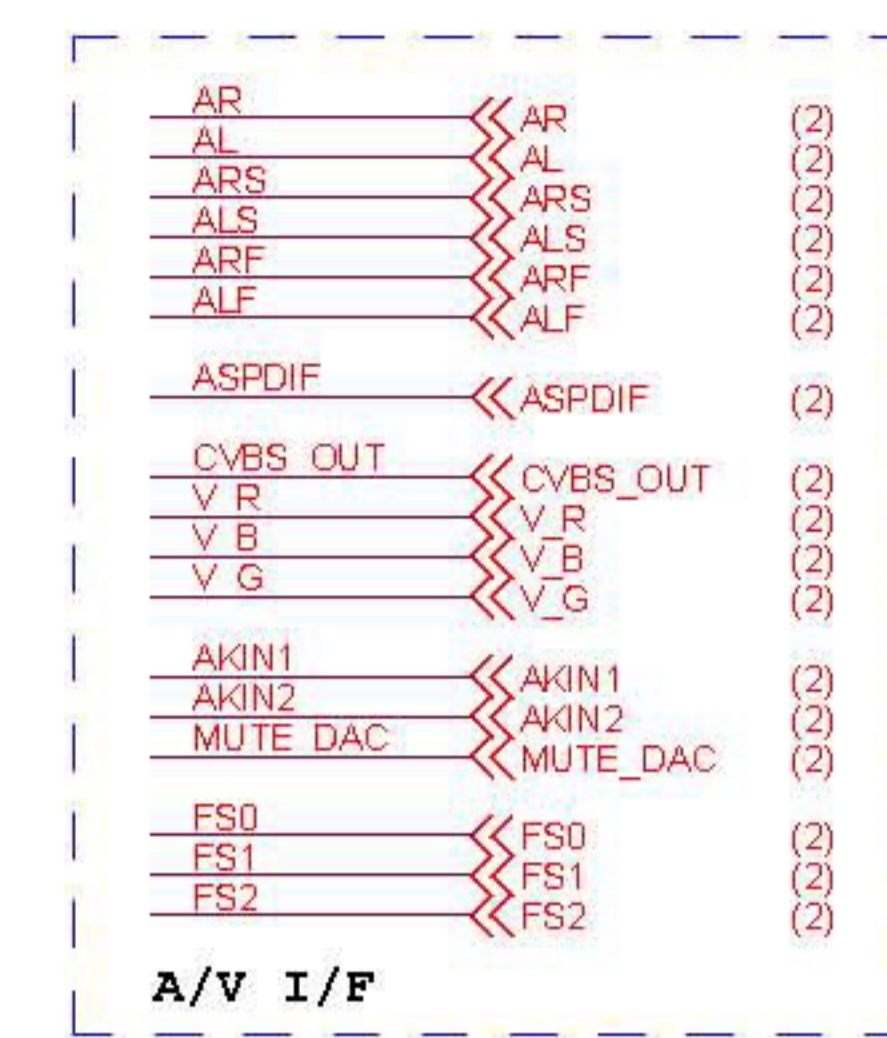
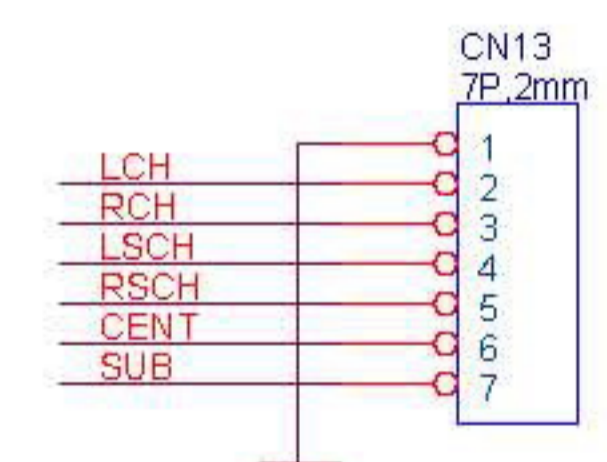
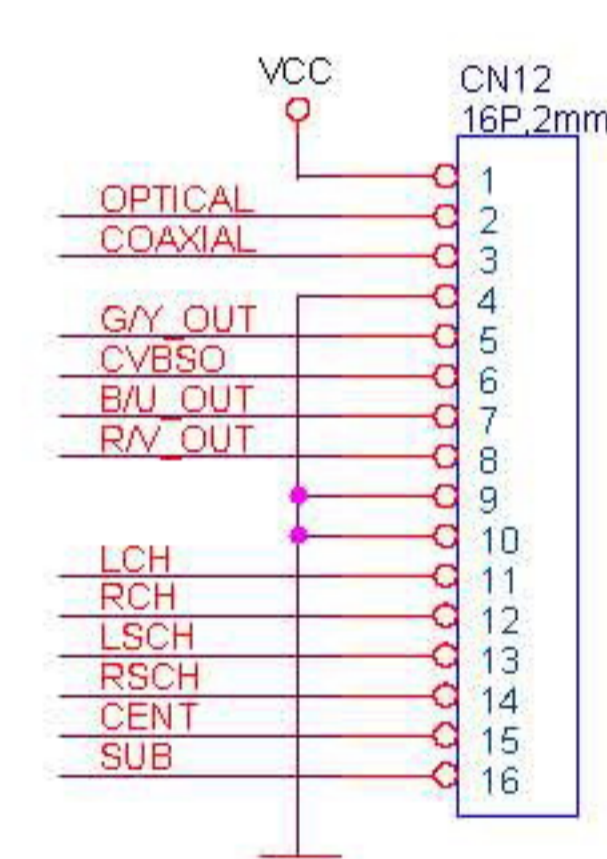
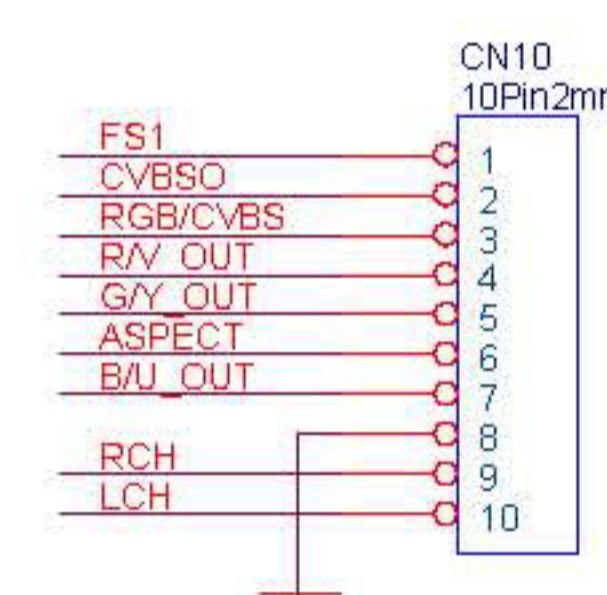
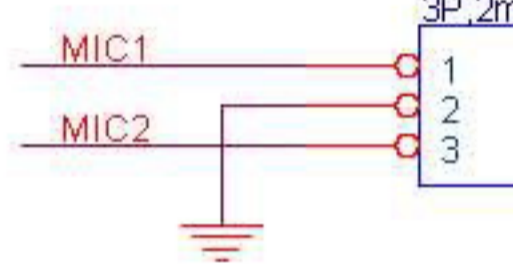
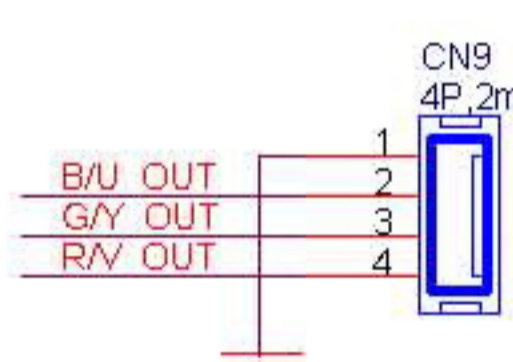
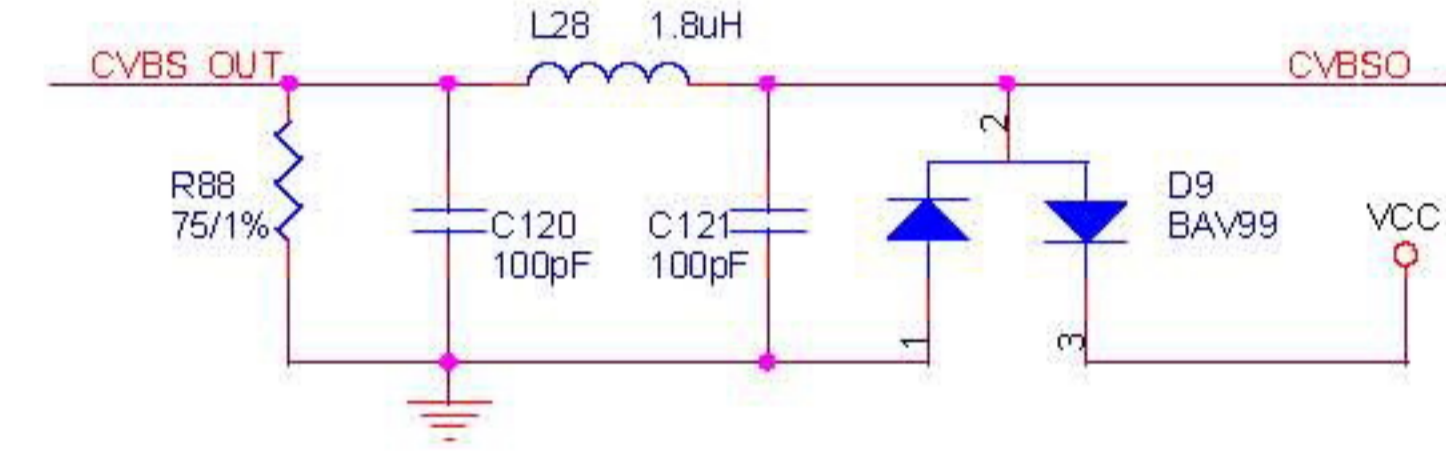
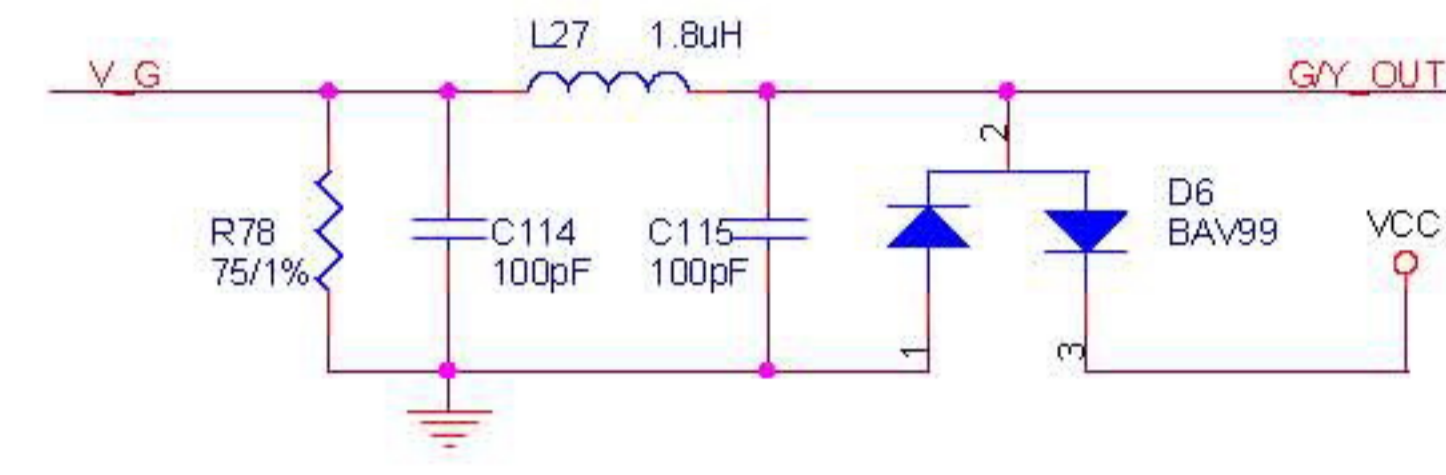
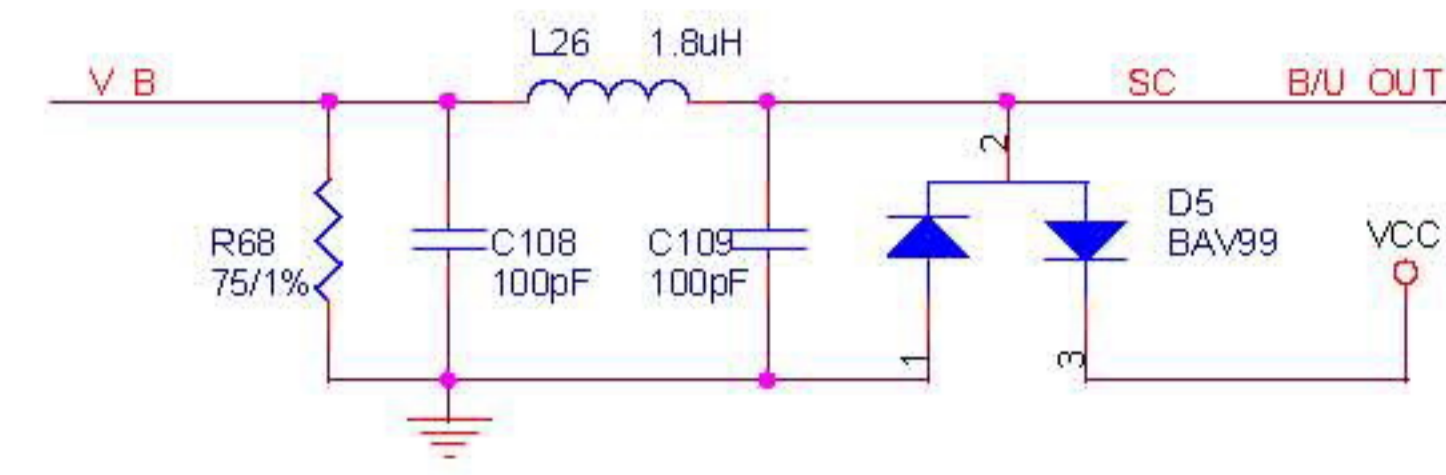
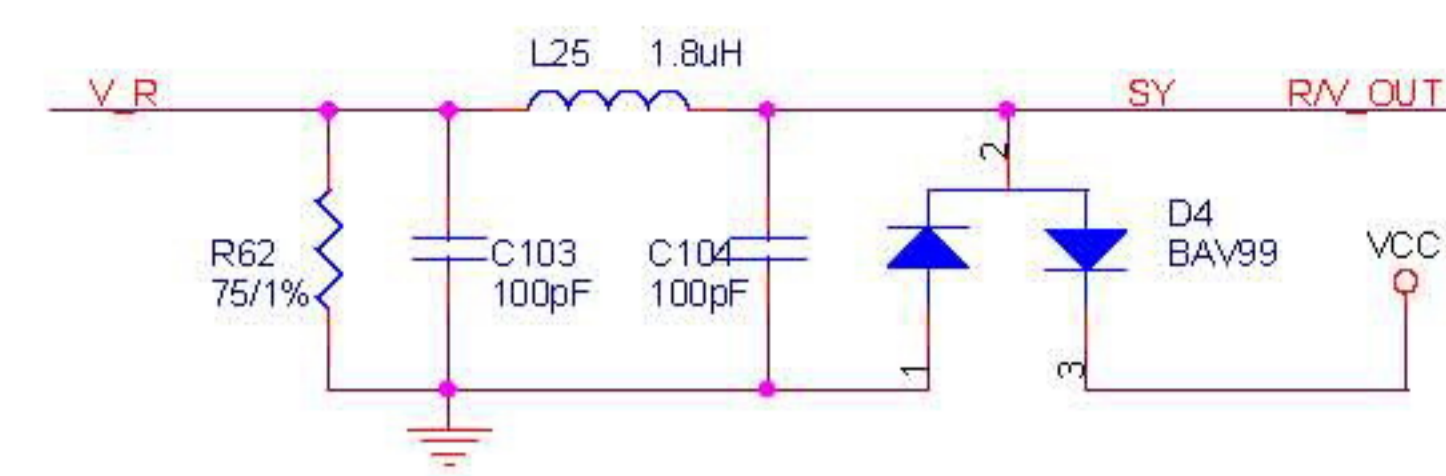
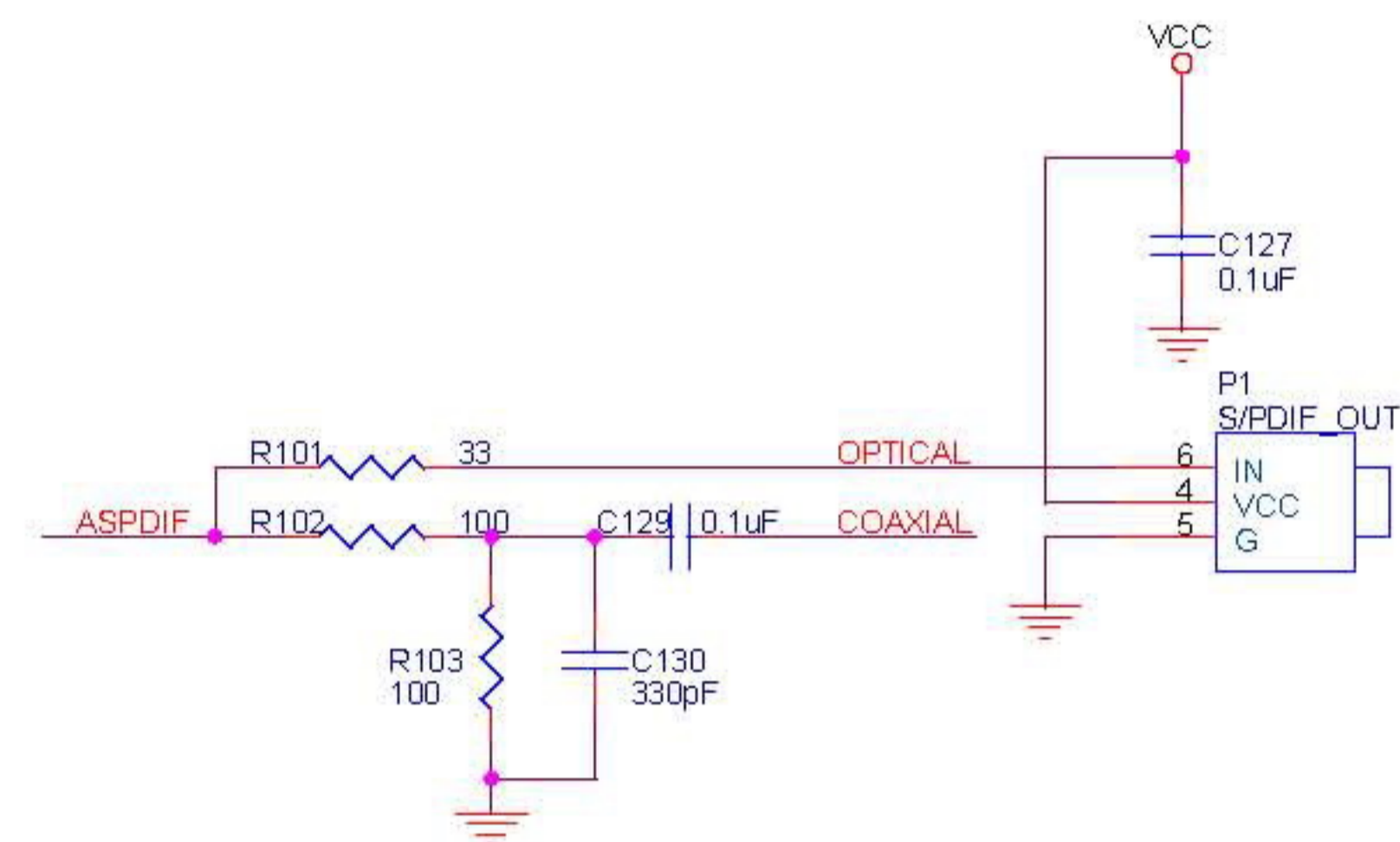
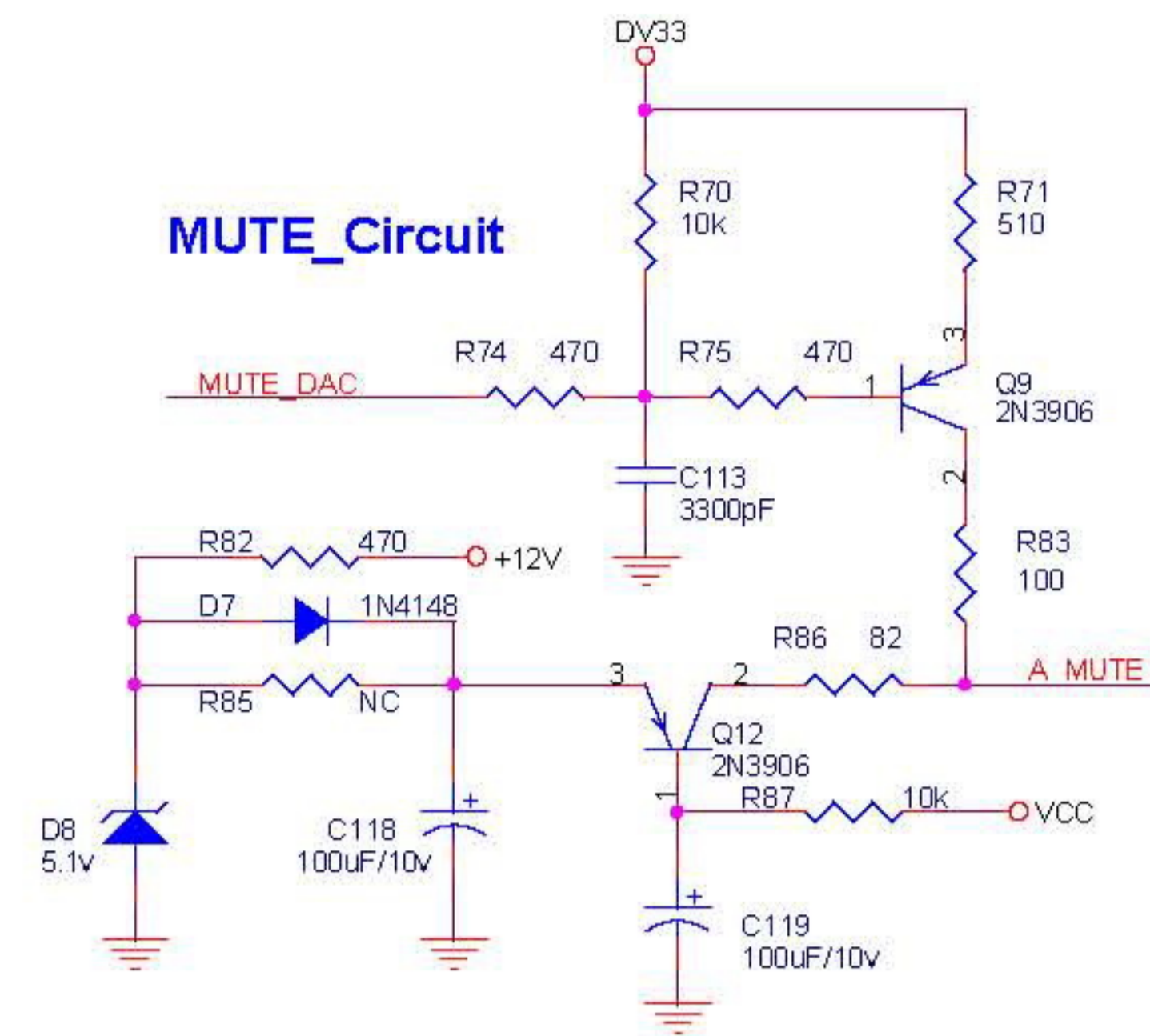
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<b>COMMON1389L/K_HD65</b>			
Size	Document Number	Drawn: FR CHEN	Rev
C	MT1389L/K LQFP128	Checked: sifu chen	1
Date:	Wednesday, February 28, 2007	Sheet	2 of 4

## SDRAM (Dual Layout)



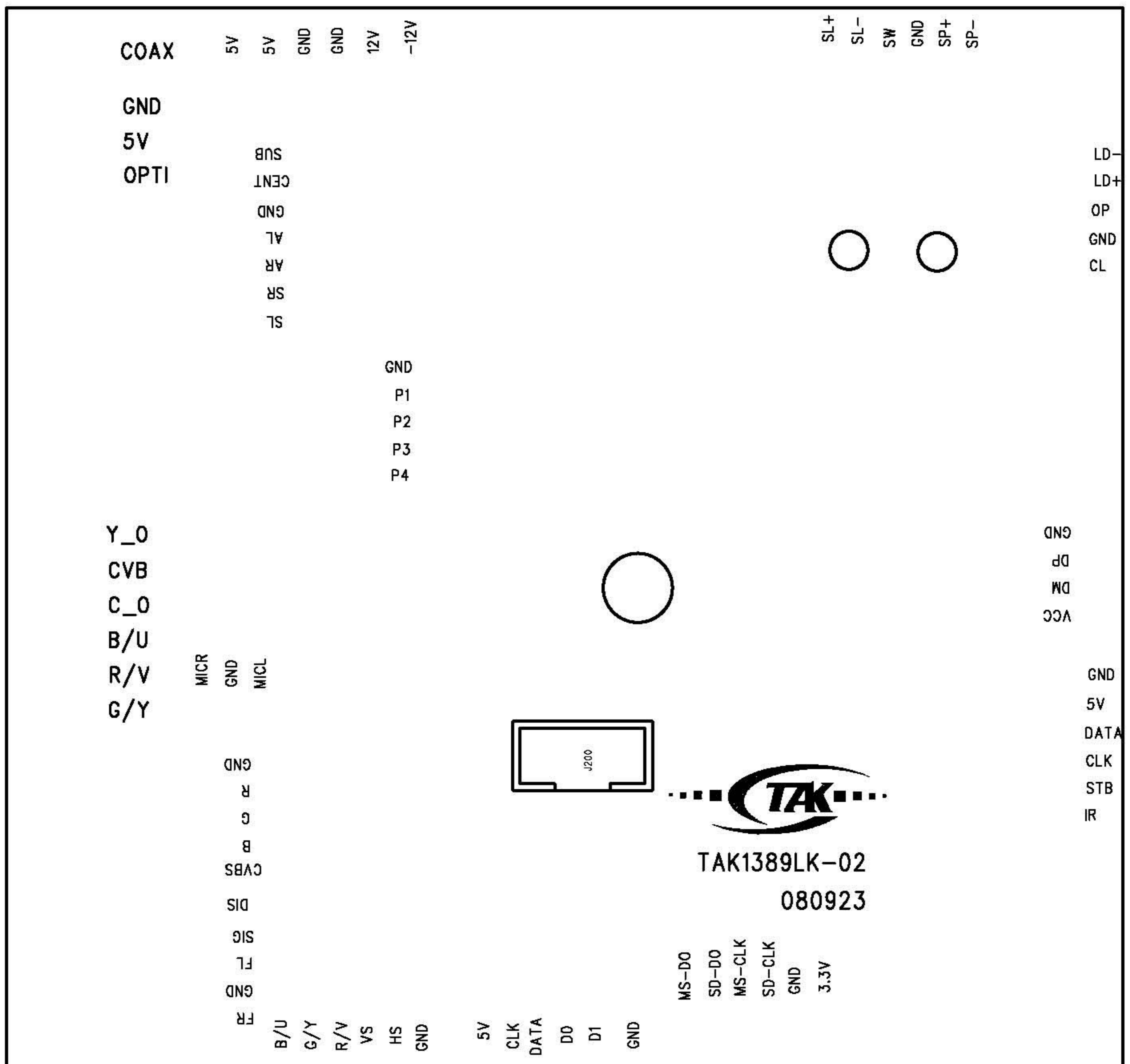


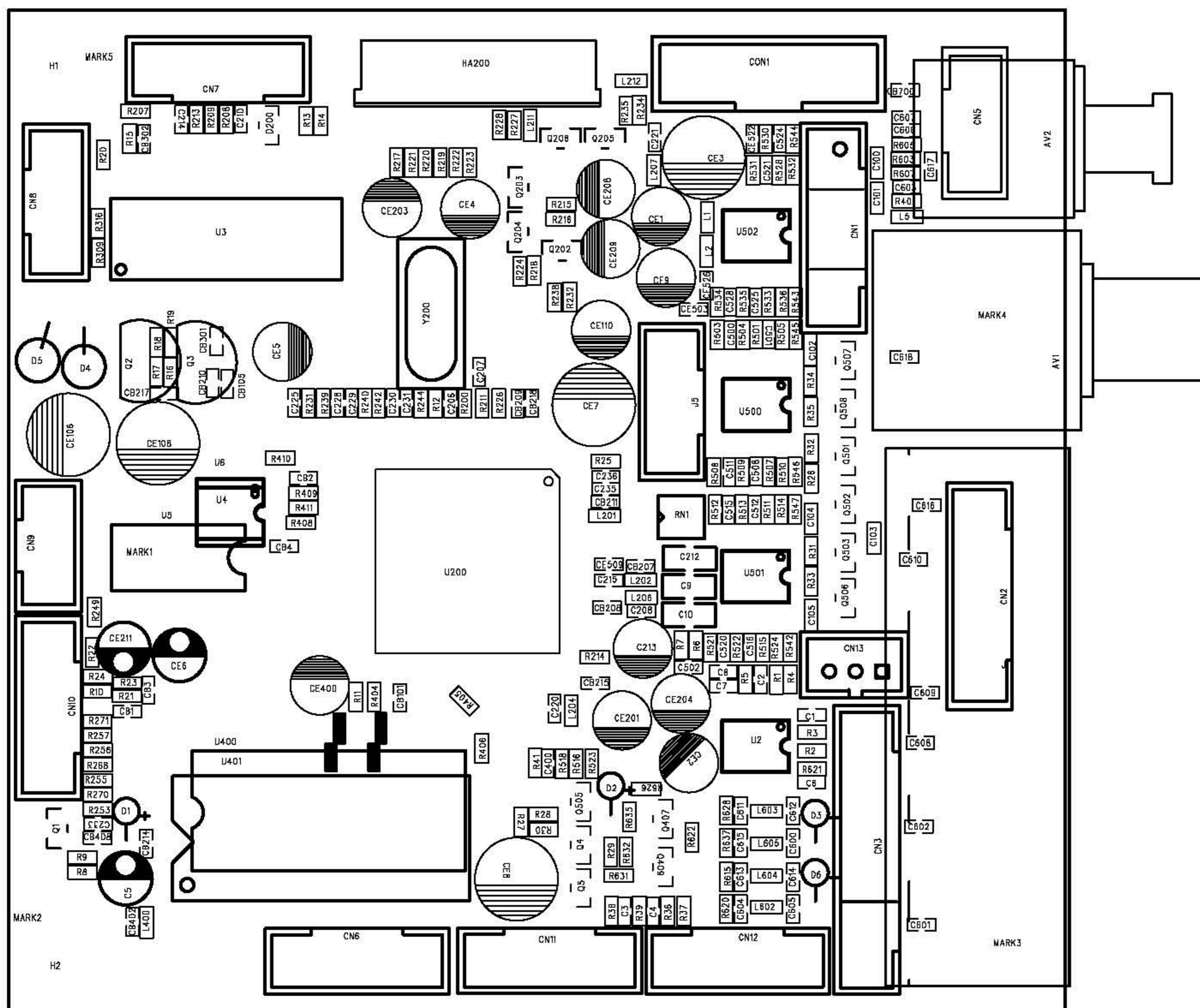
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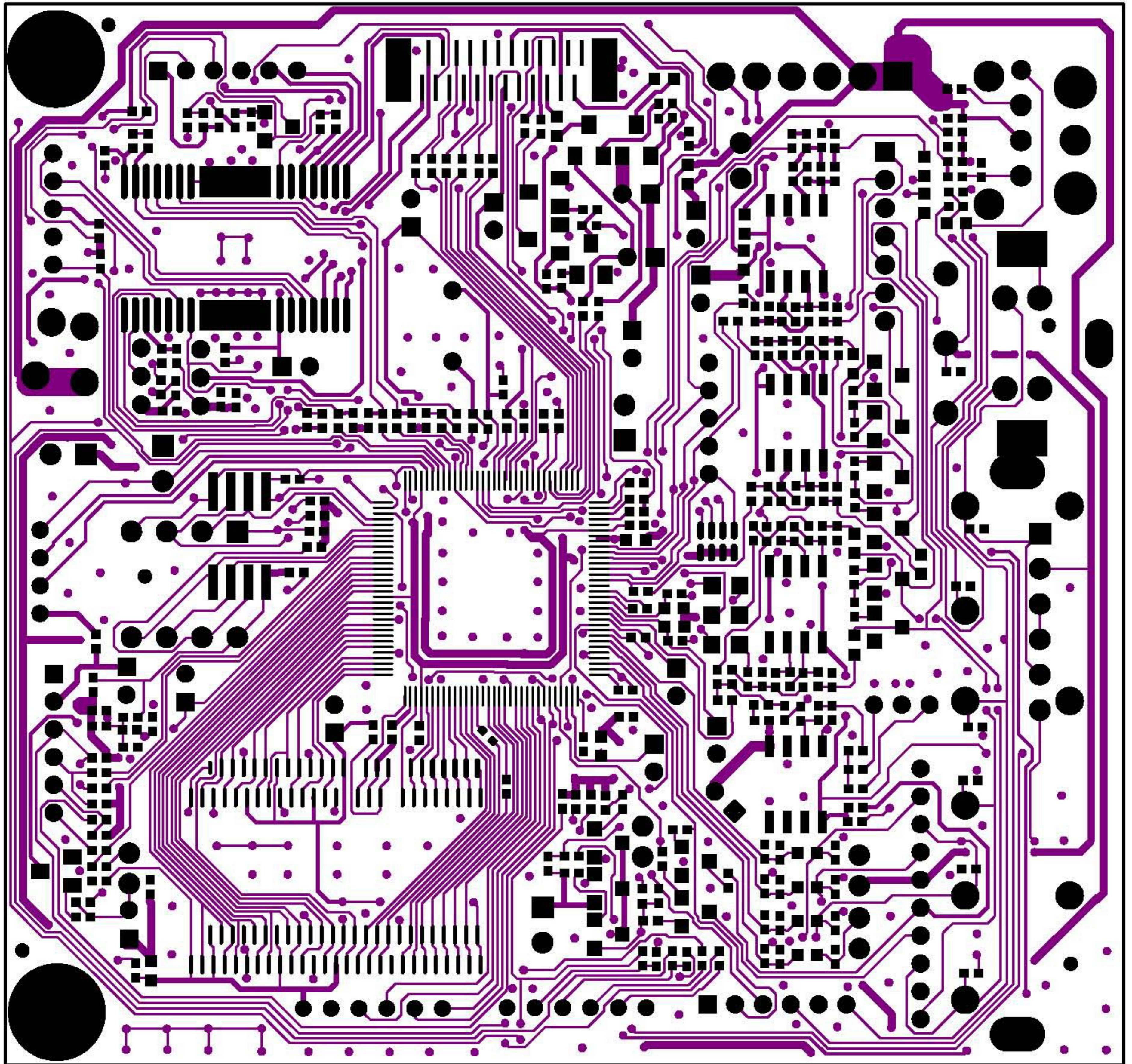


### MIC INPUT

only for MT1389L, not for MT1389K.  
R & C closed to MT1389



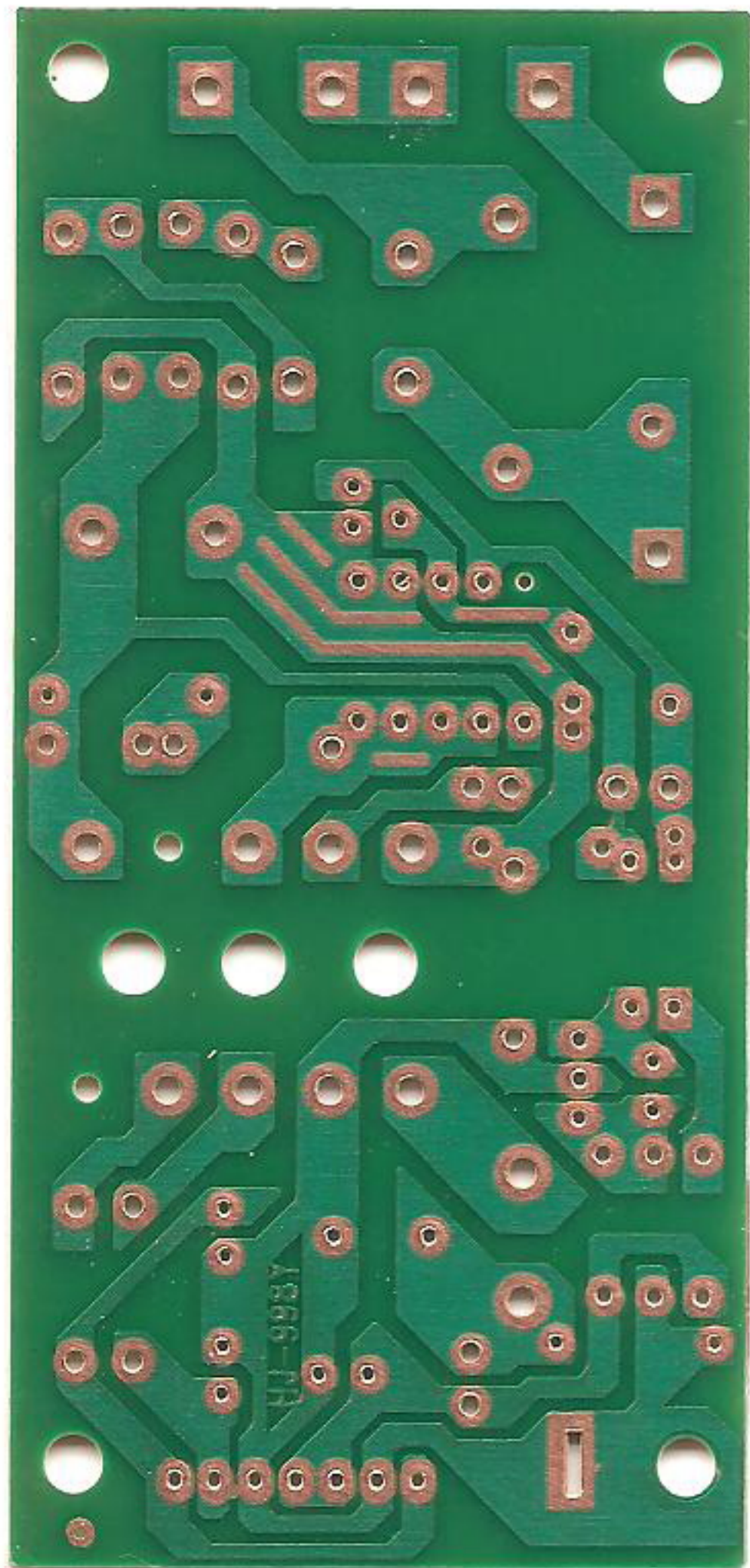




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## 11. SPECIFICATIONS

<b>Signal System</b>	PAL/ AUTO/ NTSC
<b>Frequency Response</b>	20Hz ~ 20,000 Hz $\pm$ 2.5dB
<b>Signal-to-Noisey</b>	$\geq$ 80dB
<b>Audio Dynamic Range</b>	$\geq$ 80dB(1KHz)
<b>Video output</b>	average output: 1Vp-p $\pm$ 20%, negative sync, Load: 75 $\Omega$
<b>Component video output</b>	Color difference output: Luminance (Y) 700mv $\pm$ 20%; Color (Cb) 700 mv $\pm$ 20%, Color (Cr) 700 mv $\pm$ 20%
<b>S video output</b>	average output: Luminance signal (Y) 300 mv -p $\pm$ 20% (75 $\Omega$ load); Color signal (C) 300 mv -p $\pm$ 20%, (75 $\Omega$ load)
<b>Power Supply</b>	AC90V ~ 240V; 50/60Hz
<b>Power Consumption</b>	<25W
<b>Weight</b>	<3Kg



WARNING!

N2

N1

D4

D3

D2

D1

BTL1

C1

F2

C2

IC1

R1

D5

C3

14C28-1

94V0

RTL3

IC3

IC2

C6

C5

C9

D8

D9

D7

D6

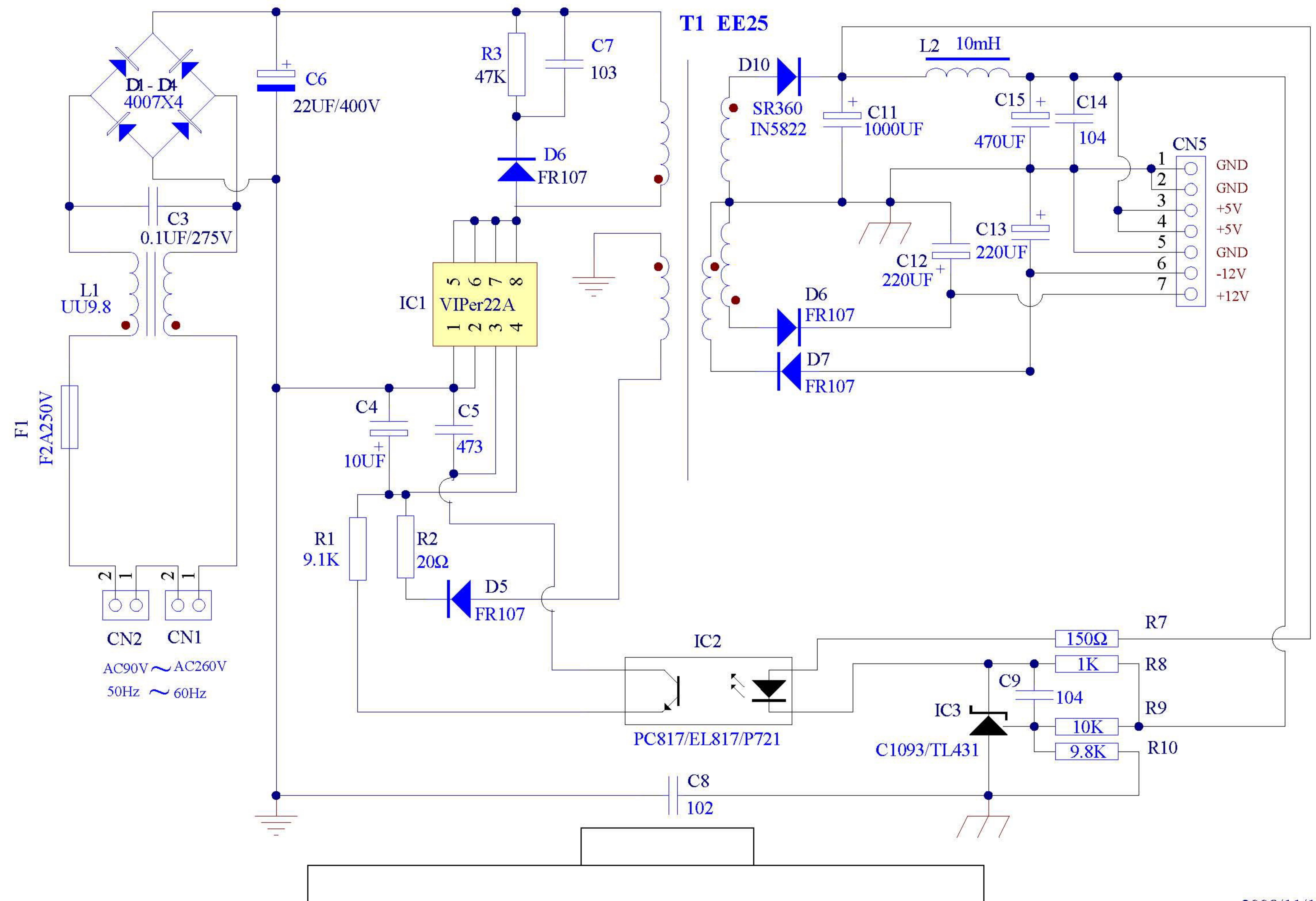
C8

C7

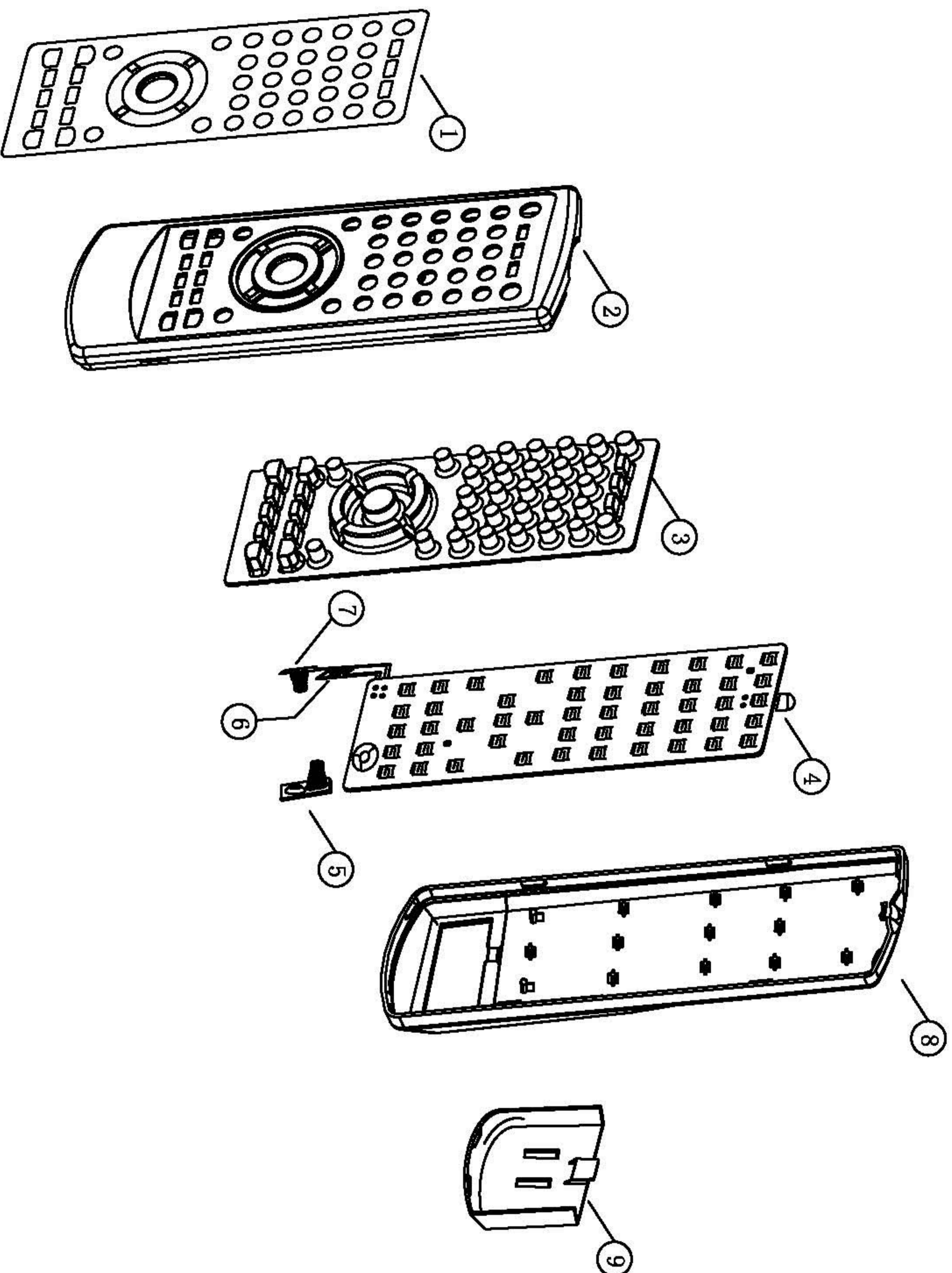
N3

GND

HJ-998Y



# KM-118



1	HANDSET FUN. PLATE
2	HANDSET TOP CABINET
3	HANDSET CONTACT RUBBER
4	REMOTE HANDSET P.C.B
5	HANDSET BATTERY SPRING(+, -)
6	HANDSET BATTERY SPRING(+)
7	HANDSET BATTERY SPRING(-)
8	HANDSET BOTTOM CABINET
9	HANDSET BATTERY DOOR

