



DVD Player

Service Manual

Model: DP-501

CONTENTS

SPECIFICATIONS	4
TROUBLESHOOTING	5
EXPLODED VIEW	6
PART LIST	7
BOM LIST	8
CIRCUIT DIAGRAMS	13

SPECIFICATIONS

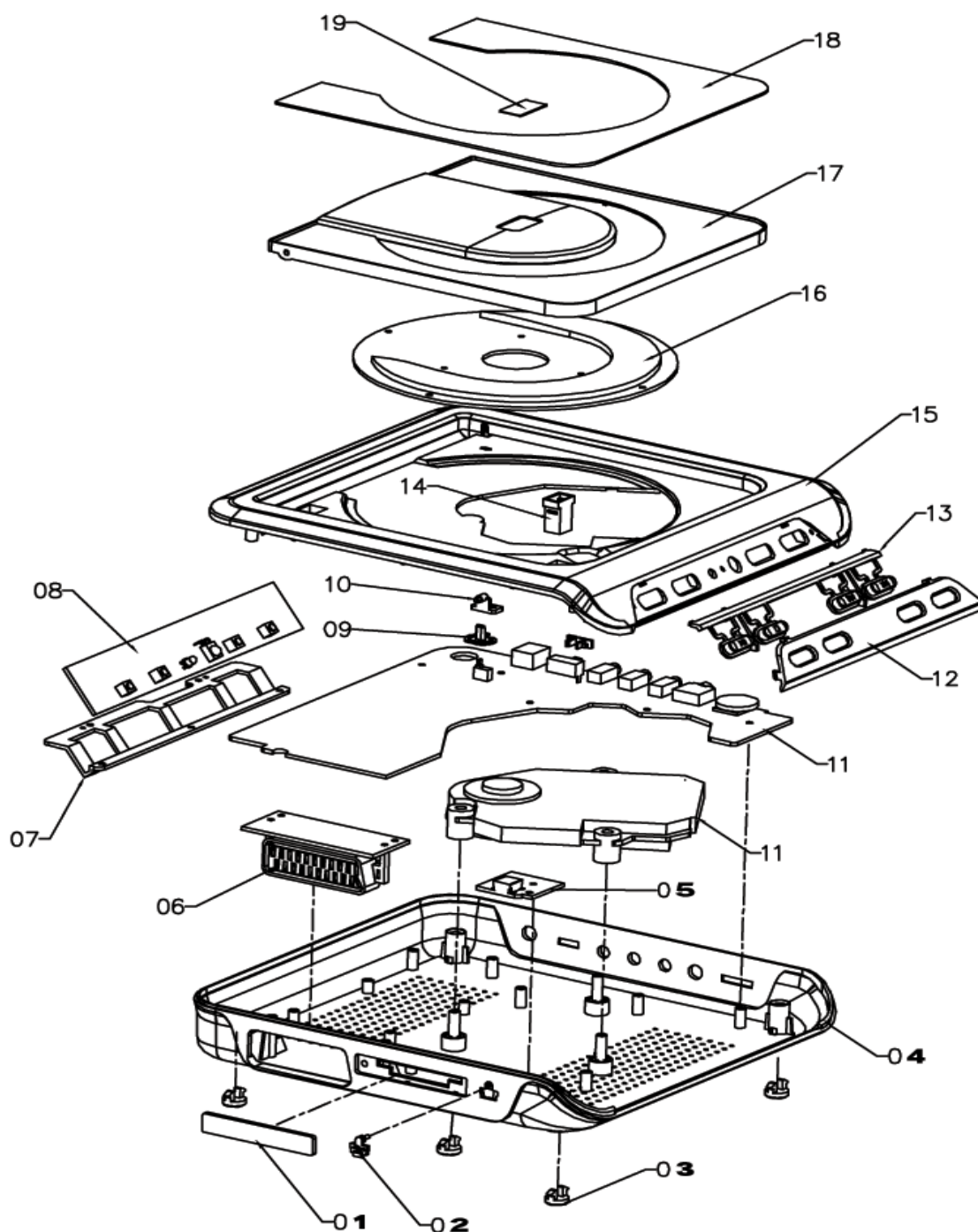
Power requirements	AC 100-240V~, 50/60Hz
Power consumption	15W
Signal system	NTSC/PAL/AUTO
Weight	1.0Kg
Disc played	DVD, MPEG4, DIVX, VCD1.1, 2.0, CD-DA, MP3, SVCD, CD-R, CD-RW, WMA, DVCD, HDCD, Kodak picture CD, JPEG picture CD
Video out	
Video Out:	1.0V(p-p)/ 75 Ω , sync, negative polarity, RCA pin jack x 1
Audio out	
2 channel out:	RCA pin jack (L, R) x 1
Coaxial out:	0.5V(p-p)/ 75 Ω , RCA pin Jack x 1
Frequency response:	20Hz to 20kHz
S/N ratio:	>90dB
Total harmonic distortion:	<0.0025%

TROUBLESHOOTING

Before requesting service for this player, check the chart below for a possible cause of the problem you are experiencing, some simple checks or adjustments on your part may eliminate the problem and restore proper operation,

Symptom (Common)	Remedy
NO PICTURE OR SOUND	• Ensure the power button is on. • Ensure the power outlet is operational. • Ensure the power cord is not damaged. • Ensure the power plug is connected firmly to the outlet.
PICTURE BUT NO SOUND	• Ensure the audio jacks are securely connected. • Ensure the audio connector is not damaged. • Ensure the volume is turned up in VOL/CH setup. • Ensure you have set the player's AUDIO settings correctly. • Ensure you have entered the correct AV input for your TV. • Ensure the audio is not set to mute.
SOUND BUT NO PICTURE	• Ensure the video jacks are securely connected. • Ensure you have entered the correct AV input for your TV. • Ensure the video connector is not damaged. • Ensure you have set the player's VIDEO settings correctly.
POOR PICTURE OR SOUND	• Ensure you have set the player's AUDIO settings correctly. • Ensure the disc is not scratched or stained. • Ensure the AV connector or the output terminal is not damaged.
"BAD DISC" DISPLAYED	• Ensure the disc is not scratched, damaged or deformed. • Ensure the disc is not badly stained or damaged. • Ensure the disc format is compatible with the player. • Please check whether you have tried to play a software CD. IF so please restart the player.
REMOTE NOT WORKING	• Make sure the Main unit's Power button is on. • Ensure the remote batteries are working. • Point the remote control directly at the player's IR sensor.
UNIT NOT WORKING	• Turn off the power, and then turn it on again.
"NO DISC" DISPLAYED	• Ensure you have put the disc on the tray. • Ensure the disc is not upside down. • Ensure the disc is not distorted, stained or scratched.

EXPLODED VIEW



PART LIST

NO	PART NAME	QTY
1	PVD	1
2	USB Cover	1
3	Foot Rubber	1
4	Bottom	1
5	USB Board	1
6	Scart Board	1
7	Button Fixing Shelf	1
8	Key Board	1
9	Open/Close Button	1
10	Fixing Hinge	1
11	Decoding Board	1
12	Front Panel Mirror	1
13	Key Button	1
14	PR Door Lock	1
15	Panel	1
16	Transparent Window	1
17	CD Door	1
18	CD Door Mirror	1
19	Escutcheon	1

BOM LIST

No	Part No	Description	Spec	Qty
0	70460010611	DVD PORTABLE DVD	DP-501 (IN)	0
.1	10146301212	FRONT PANEL	DP6301-SJ05-01	1
.1	10246001231	BOTTOM	DP-501(IN)-MG08-01	1
.1	10646101132	CD DOOR MIRROR	ATC-100+-MG17-02	1
.1	10746301211	POWER BUTTON	DP6301-SJ07-01	1
.1	10746301212	FUNCTION BUTTON	DP6301-SJ07-03	1
.1	10946301301	Bottom pad	DP6301-SJ19-01	4
.1	11046101131	MIRROR	DNX300-MG16-0	1
.1	11046301601	Transparent window	DP6301-SJ08-02	1
.1	11246001231	CD DOOR	DP-501(IN)-MG20-01	1
.1	12346001231	PVC patch	DP-501(IN)-MG18-01 (50*8.5)	1
.1	12346101001	RATING LABEL	DP6101-MG11-01 (18*10mm)	1
.1	12346301001	Button fixer	DP6301-SJ16-02	1
.1	12346301101	PR lock	PR04	1
.1	12346301211	CD door switch	DP6301-SJ07-02	1
.1	12346301222	CD door fixing axes	DP6301-SJ16-01	1
.1	12346301301	USB cover	DP6301-SJ18-01	1
.1	209010208W1	SCREW	2*8PA	8
.1	209012510W1	SCREW	2.5*10PA	4
.1	209050208W1	SCREW	2*8PWA	3
.1	209090206W1	SCREW	2*6FB	5
.1	209111704W1	SCREW	1.7*4CB	3
.1	209130208W1	SCREW	2*8FA	1
.1	21010750702	Spring for CD door	DP6301-WJ15-02 (D7.5*d1.0*N7)	1
.1	30420712001	Screen shield line	L=120mm-7Pin-1.25mm	1
.1	30430220001	Earphone line	ESLP-215/32R	1
.1	30431012001	AV CABLE	L=1.2M-5	1
.1	30442405142	24pin line	L=140mm-24Pin-0.5mm	1
.1	30451180002	POWER CORD	1.8M/2*0.75mm2	1
.1	32200007151	BATTERY	7#	2
.1	40104600101	GIFTBOX	DP-501(IN)-MG15-01	1
.1	40212520203	QC STICKER	DVD-2102-MG04-02 (Φ20mm)	1
.1	40214600104	Serial number label	DP-501(IN)-MG04-05	1
.1	40214600103	Bottom sticker	DP-501(IN)-MG04-04 (50*40mm)	1

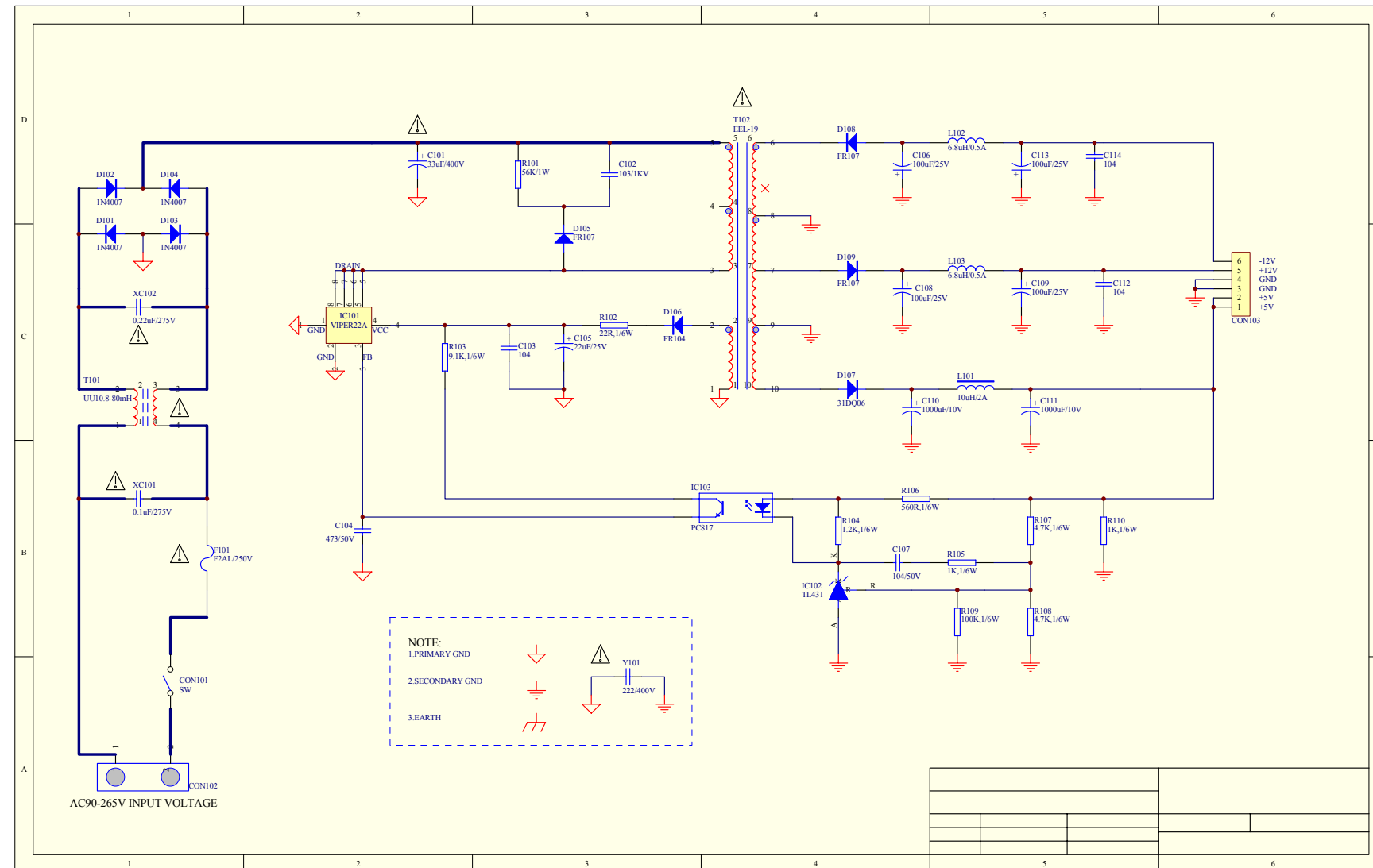
No	Part No	Description	Spec	Qty
.1	40314600101	Manual	DP-501(IN)-MG01-01	1
.1	40424021502	PE bag	240*215mm PE04	2
.1	40430025001	PE bag (case)	300*250mm PE04	1
.1	40604600101	(B=B) carton	DP-501(IN)-MG02-01	1/8
.1	50425301103	OPU	1200W(HITACHI)	1
.1	50446001101	(RC04) Remote control	DP-501(IN)-MG10-01	1
.1	50446101102	Loader	MG9807	1
.1	51146101M01	Front control board component	DP6101-ZC10-01	1
..2	30120712501	Patch jack	7pin-1.25mm	1
..2	30211310301	Touch switch	PK-A06-P1 (L=5mm)	4
..2	30346101032	PCB (front control board)	DP6101-ZC10-01(B)	1
..2	30511703011	Diode	Φ3	1
..2	308122114J1	Resistance	220Ω-1/4W-J	1
..2	3250511QS01	Remote control receiver	GP1UX511QS	1
..2	11546301001	LED location pole	DP6301-SJ13-01	1
.1	51448101M03	Power adapter	DP8101	1
..2	12346101101	Power adapter cover	L54.5*H15mm	1
..2	12346101102	Power adapter bottom	L54.5*H17.5mm	1
..2	209030305B1	SCREW	3*5PM	1
..2	30346101062	PCB (power board)	DP6101-ZC02-01 (C)	1
..2	30451200002	Power board connection line	L=2M/20AWG*2C/	1
..2	30604610101	Transformer	EFD25/25=1mH-K	1
..2	308122016J1	Resistor	22Ω-1/6W-J	1
..2	308110216J1	Resistor	1KΩ-1/6W-J	3
..2	308112216J1	Resistor	1.2KΩ-1/6W-J	1
..2	308139216J1	Resistor	3.9KΩ-1/6W-J	1
..2	308133116J1	Resistor	330Ω-1/6W-J	1
..2	308156302J1	Resistor	56KΩ-2W-J	1
..2	308156314J1	Resistor	56KΩ-1/4W-J	1
..2	308182416J1	Resistor	820KΩ-1/6W-J	1
..2	31001021021	Porcelain capacitance	102-1KV	1
..2	31001040503	Capacitance	104PF-50V-Z	2
..2	31004714011	(Y1) capacitance	471-400V	1
..2	31014730502	Ethylene capacitance	473-50V-Z	1
..2	31051042751	X2 capacitance	0.1uF-275V-K	1
..2	31084700252	Electrolyte capacitance	47uF-25V-Z (Φ5*11*2)	1

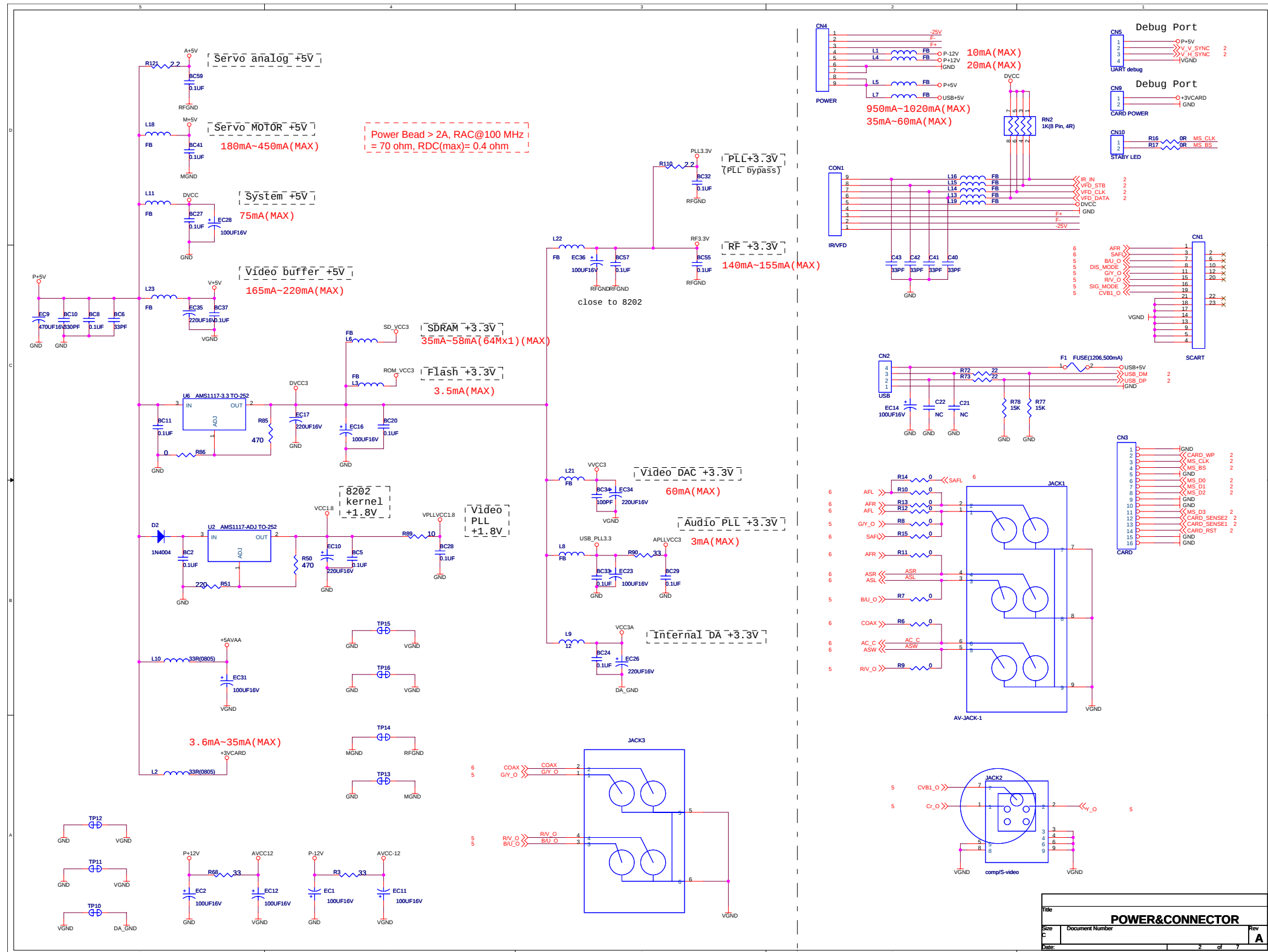
No	Part No	Description	Spec	Qty
..2	31084704001	Electrolyte capacitance	47uF-400V-Z (Φ16*25mm/D=7.5mm)	1
..2	31084710251	Electrolyte capacitance	470uF-25V-Z (Φ8*14mm/D=3.5mm)	2
..2	31230BP2061	Commutate diode	GBP206	1
..2	31230FR1071	Commutate diode	FR107	2
..2	3123Y1010D1	Commutate diode	Y1010DN-TO-220F	1
..2	31400PC8171	Light lotus root	PC817	1
..2	31400TL4311	IC	TL431 (1%) TO-92	1
..2	314DM0365R1	IC	DM0365R (DIP)	1
..2	31701800023	Power jack	RF-180-R-1.7	1
..2	31802511621	Insurance tube	T1.6A-250V	1
..2	32104630102	IC radiator	DP6301/15*11*15mm	1
..2	324050100K3	Inductance	10uH-2A-K (DIP)	1
..2	3240680R0K2	Inductance	UU10.8-80mH-K	1
..2	32606000002	Jumper	Φ0.6*7.5mm	1
...3	32606000000	Jumper	Φ0.6mm	7.5
..2	40214810102	Adaptor label	DP8101-MG04-02	1
..2	40420010001	PE bag (cable)	200*100mm PE04	1
.1	51546001M01	Decoding board component	DP-501(IN)	1
..2	30120220001	Jack	2pin-2.0mm	1
..2	30120420001	Jack	4pin-2.0mm	1
..2	30234610101	Touch switch	PK-A06-P8 (H=8.5mm)	1
..2	30244610101	DC power switch	SK-12F13	1
..2	31081000164	Electrolyte capacitance	10uF-16V-Z (Φ4*5mm/D=1.5mm)	14
..2	31081010104	Electrolyte capacitance	100uF-10V-Z (Φ5*5mm/D=2.0mm)	4
..2	31081010169	Electrolyte capacitance	100uF-16V-Z (Φ6.3*7mm)	11
..2	31082210166	Electrolyte capacitance	220uF-16V-Z (Φ8*5mm/D=3.5mm)	5
..2	31084700165	Electrolyte capacitance	47uF-16V-Z (Φ5*5mm/D=2.0mm)	8
..2	31084710101	Electrolyte capacitance	470uF-10V-Z (Φ8*7mm/D=3.5mm)	1
..2	312105R1121	Zener diode	5.1V-1/2W (DO-41)	1
..2	313109014C1	Audion	9014 (TO-92C 档)	1
..2	31510200501	Electrograph	B102-5Pin	1
..2	31700044021	DC power jack	DC-044-3Pin	1
..2	31733505011	Earphone jack	CKX-3.5-05	3
..2	31733523011	Earphone jack	CKX-3.5-23	1
..2	32027000331	Crystal flap	27MHz-33P-30PPM-X49S (DIP)	1
..2	51546001S01	Decoding board component	DP-501(IN)	1

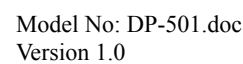
No	Part No	Description	Spec	Qty
...3	30120712501	Patch jack	7pin-1.25mm	1
...3	30122405001	Patch jack	24pin-0.5mm	1
...3	30346101072	PCB (decoding board)	DP6101-ZC01-01 (C)	1
...3	30710001AJ1	Patch resistor	0Ω-1/10W-J-0603	20
...3	30711001AJ1	Patch resistor	10Ω-1/10W-J-0603	1
...3	30711011AJ1	Patch resistor	100Ω-1/10W-J-0603	9
...3	30711021AJ1	Patch resistor	1KΩ-1/10W-J-0603	4
...3	30711031AJ1	Patch resistor	10KΩ-1/10W-J-0603	15
...3	30711221AF1	Patch resistor	1.2KΩ-1/10W-F-0603	1
...3	30711511AJ1	Patch resistor	150Ω-1/10W-J-0603	3
...3	30711521AJ1	Patch resistor	1.5KΩ-1/10W-J-0603	1
...3	30711541AJ1	Patch resistor	150KΩ-1/10W-J-0603	3
...3	30711831AJ1	Patch resistor	18KΩ-J-0603	5
...3	30711R01AJ1	Patch resistor	1Ω-1/10W-J-0603	1
...3	30712011AJ1	Patch resistor	200Ω-1/10W-J-0603	2
...3	30712031AJ1	Patch resistor	20KΩ-1/10W-J-0603	2
...3	30712211AJ1	Patch resistor	220Ω-1/10W-J-0603	1
...3	30712221AJ1	Patch resistor	2.2KΩ-1/10W-J-0603	3
...3	30712R21AJ1	Patch resistor	2.2Ω-1/10W-J-0603	2
...3	30713301AJ1	Patch resistor	33Ω-1/10W-J-0603	5
...3	30713331AF1	Patch resistor	33KΩ-1/10W-F-0603	2
...3	30714711AJ1	Patch resistor	470Ω-1/10W-J-0603	8
...3	30714721AJ1	Patch resistor	4.7KΩ-1/10W-J-0603	8
...3	30714731AJ1	Patch resistor	47KΩ-1/10W-J-0603	4
...3	30714741AJ1	Patch resistor	470KΩ-1/10W-J-0603	2
...3	30715121AJ1	Patch resistor	5.1KΩ-1/10W-J-0603	2
...3	30715R11AJ1	Patch resistor	5.1Ω-1/10W-J-0603	2
...3	30716231AJ1	Patch resistor	62KΩ-1/10W-J-0603	1
...3	30716811AJ1	Patch resistor	680Ω-1/10W-J-0603	1
...3	30716831AJ1	Patch resistor	68KΩ-1/10W-J-0603	1
...3	30717501AF1	Patch resistor	75Ω-1/10W-F-0603	1
...3	30717521AJ1	Patch resistor	7.5KΩ-1/10W-J-0603	1
...3	30720001AJ1	Patch resistor	0Ω-1/10W-J-0805	2
...3	30737501AJ1	Patch resistor	75Ω-1/10W-J-1206	4
...3	3091001A081	Patch resistor	10Ω*4-1/10W-J-0603	1
...3	3093301A081	Patch resistor	33Ω*4-1/10W-J-0603	4
...3	31111000502	Patch capacitance	10PF-50V-J-0603	6
...3	31111010502	Patch capacitance	100PF-50V-J-0603	12
...3	31111020501	Patch capacitance	1000PF-50V-K-0603	4

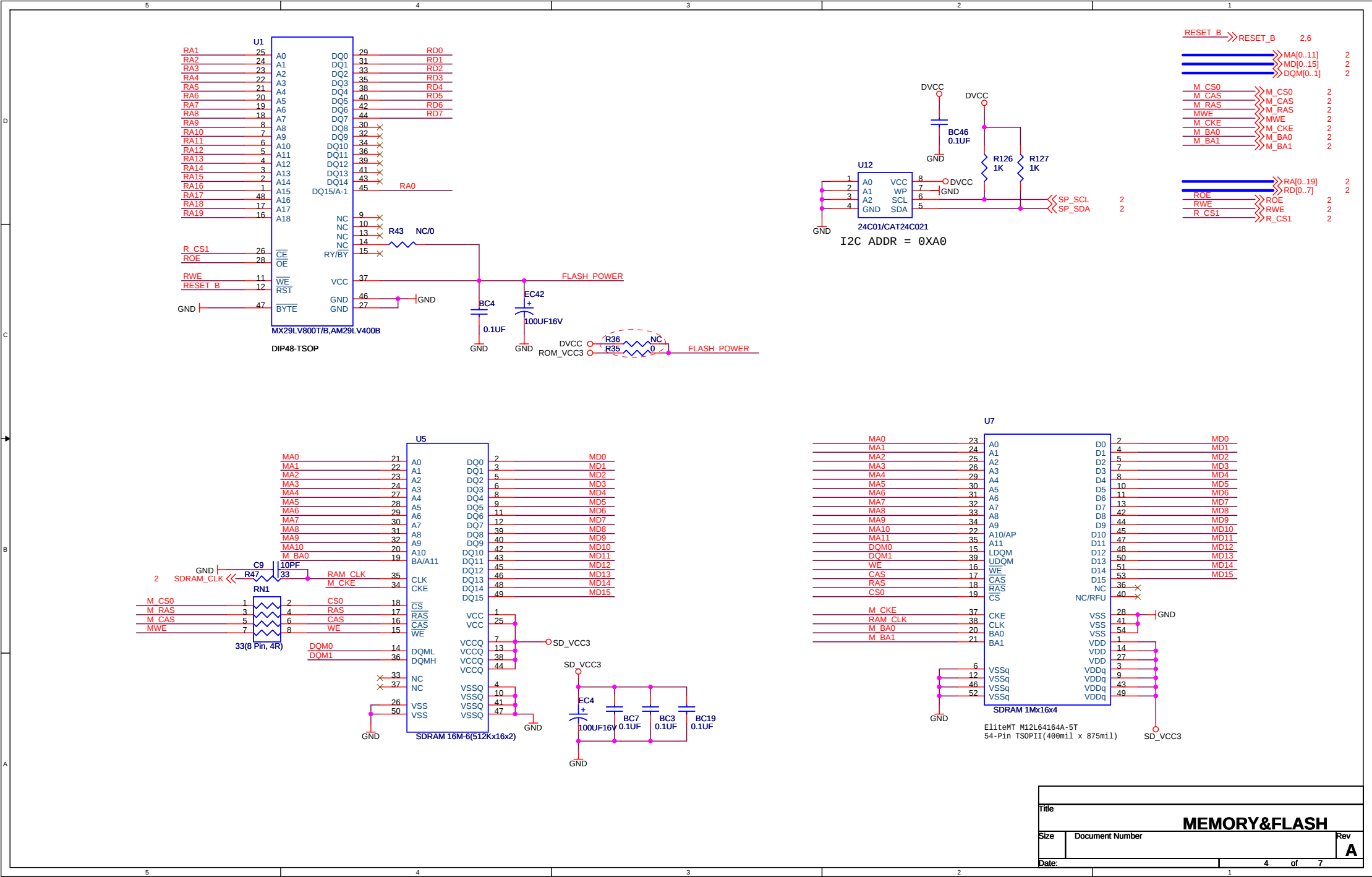
No	Part No	Description	Spec	Qty
...3	31111030251	Patch capacitance	0.01uF-25V-Z-0603	9
...3	31111040502	Patch capacitance	0.1uF-50V-Z-0603	72
...3	31111050161	Patch capacitance	1uF-16V-Z-0603	5
...3	31111210501	Patch capacitance	120PF-50V-K-0603	4
...3	31111520501	Patch capacitance	1500PF-50V-K-0603	4
...3	31112230501	Patch capacitance	0.022uF-50V-Z-0603	2
...3	31112240161	Patch capacitance	0.22uF-16V-Z-0603	1
...3	31113010501	Patch capacitance	300PF-50V-K-0603	1
...3	31113300502	Patch capacitance	33PF-50V-J-0603	4
...3	31113310501	Patch capacitance	330PF-50V-K-0603	1
...3	31114700502	Patch capacitance	47PF-50V-J-0603	6
...3	31114720501	Patch capacitance	4700PF-50V-K-0603	2
...3	31114730503	Patch capacitance	0.047uF-50V-Z-0603	1
...3	31116810501	Patch capacitance	680PF-50V-K-0603	5
...3	31243041481	Diode	1N4148-1206	3
...3	312430SS241	Diode	SS24-1206	3
...3	3131SB11322	Audio	2SB1132 (SOT-89)	2
...3	31322N39042	Audio	2N3904 (SOT-23C 档)	7
...3	31322N39062	Audio	2N3906 (SOT-23C 档)	3
...3	314016400B1	IC (SDRAM)	IS42S16400B (64M-7)	1
...3	31439VF0881	IC (FLASH)	SST39VF088-70 (8M/TSOP-48)	1
...3	314AM5668S1	IC (moto driver)	AM5668 SSOPH-28	1
...3	314AMS11172	IC (DC-DC)	AMS1117-ADJ (TO-223)	1
...3	314AT24C021	IC (EEPROM)	AT24C02	1
...3	314HE8202D1	IC (DSP)	SPHE8202D	1
...3	314NJM45581	IC	NJM4558E (SO-8)	2
...3	314P1410ES1	IC	MP1410ES (SO-8)	2
...3	31830300001	Safety tube	3A-1206	1
...3	32402242001	Magnetism ball	42Ω-600mA-0805	13
...3	32408210003	Inductance	10uH-50mA-0805	2
...3	3240821R002	Inductance	1uH-50mA-0805	4
...3	32408222001	Inductance	22uH-1.5A	2
...3	40214600101	Decoding board sticker	DP-501(IN)	1

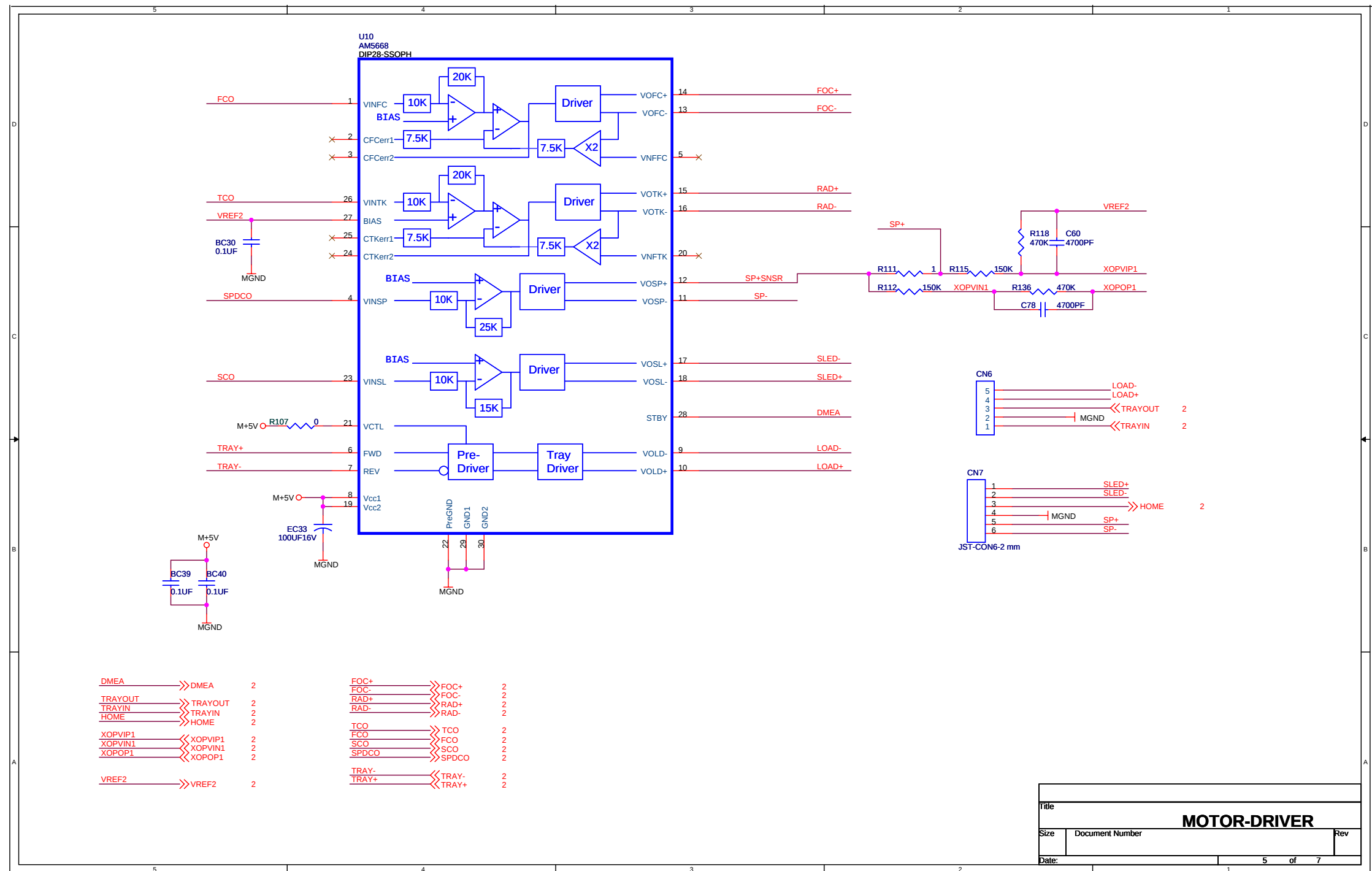
CIRCUIT DIAGRAMS

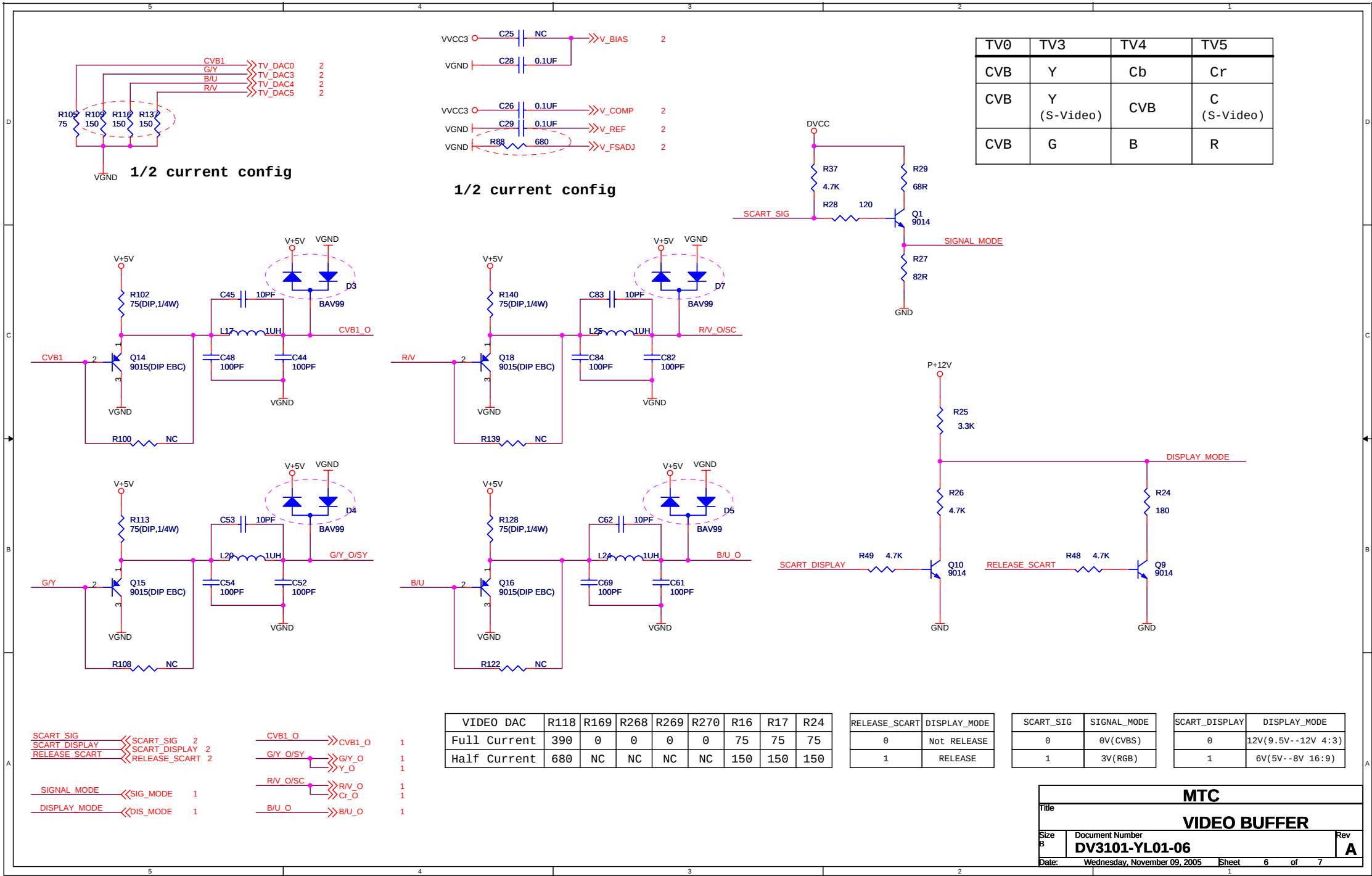


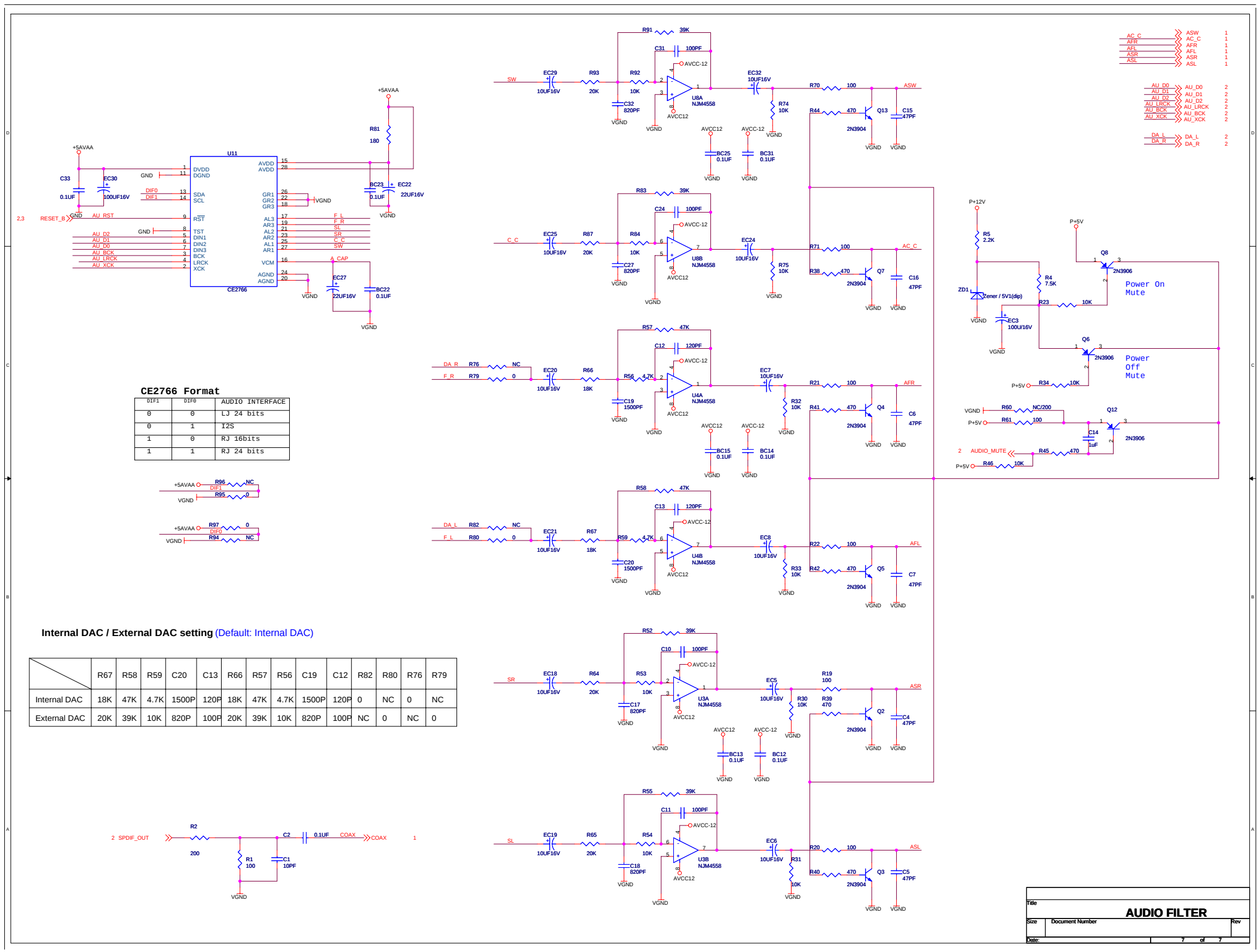












AKIRA
makes life better