LG

LCD TV

Schematics & Exploded View with P/N

CHASSIS : LA12C

MODEL : 55LW5600 55LW5600-UA

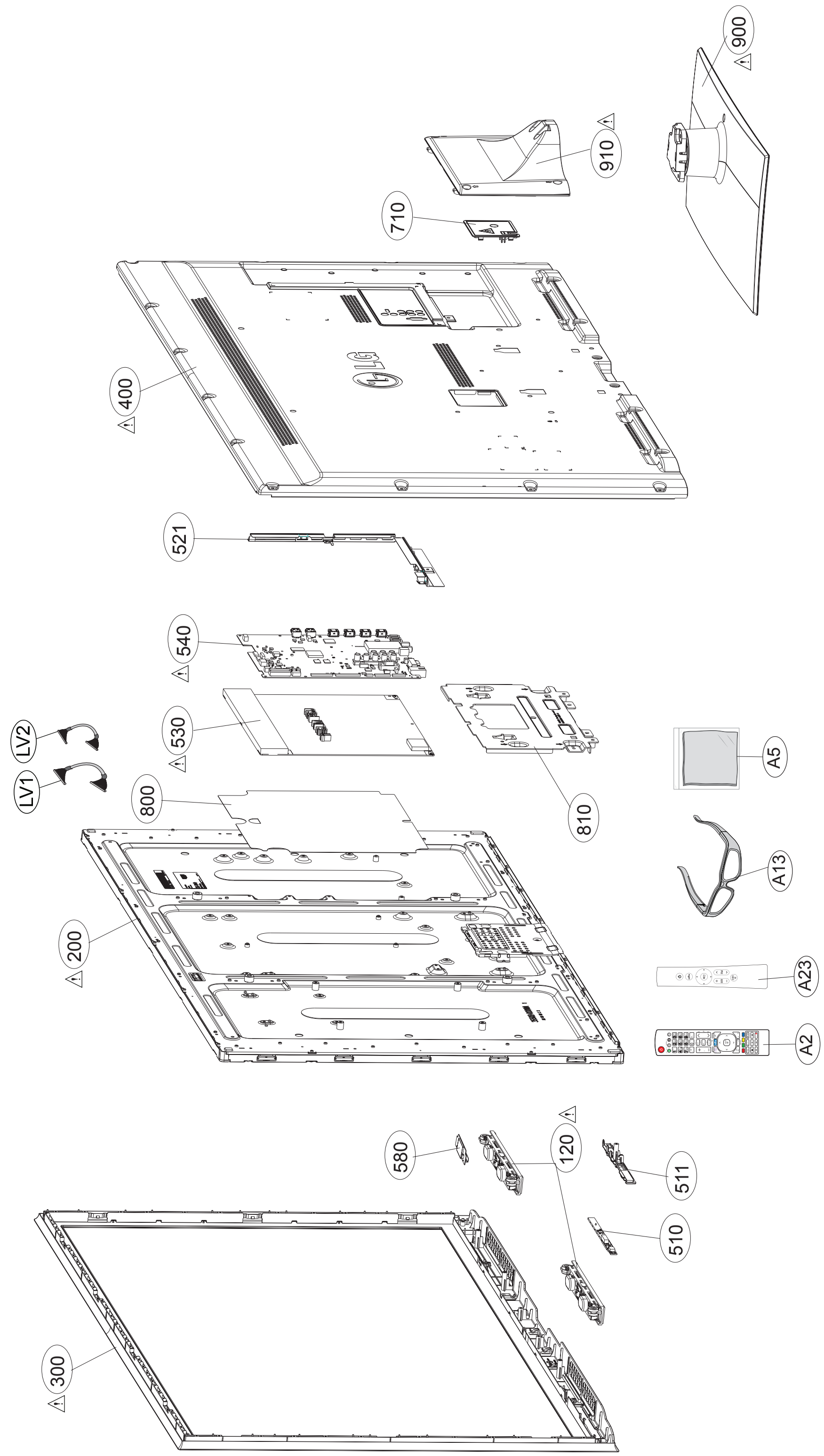
CAUTION
BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.

P/NO : MFL66980410 (1102-REV00) Printed in Korea

EXPLODED VIEW

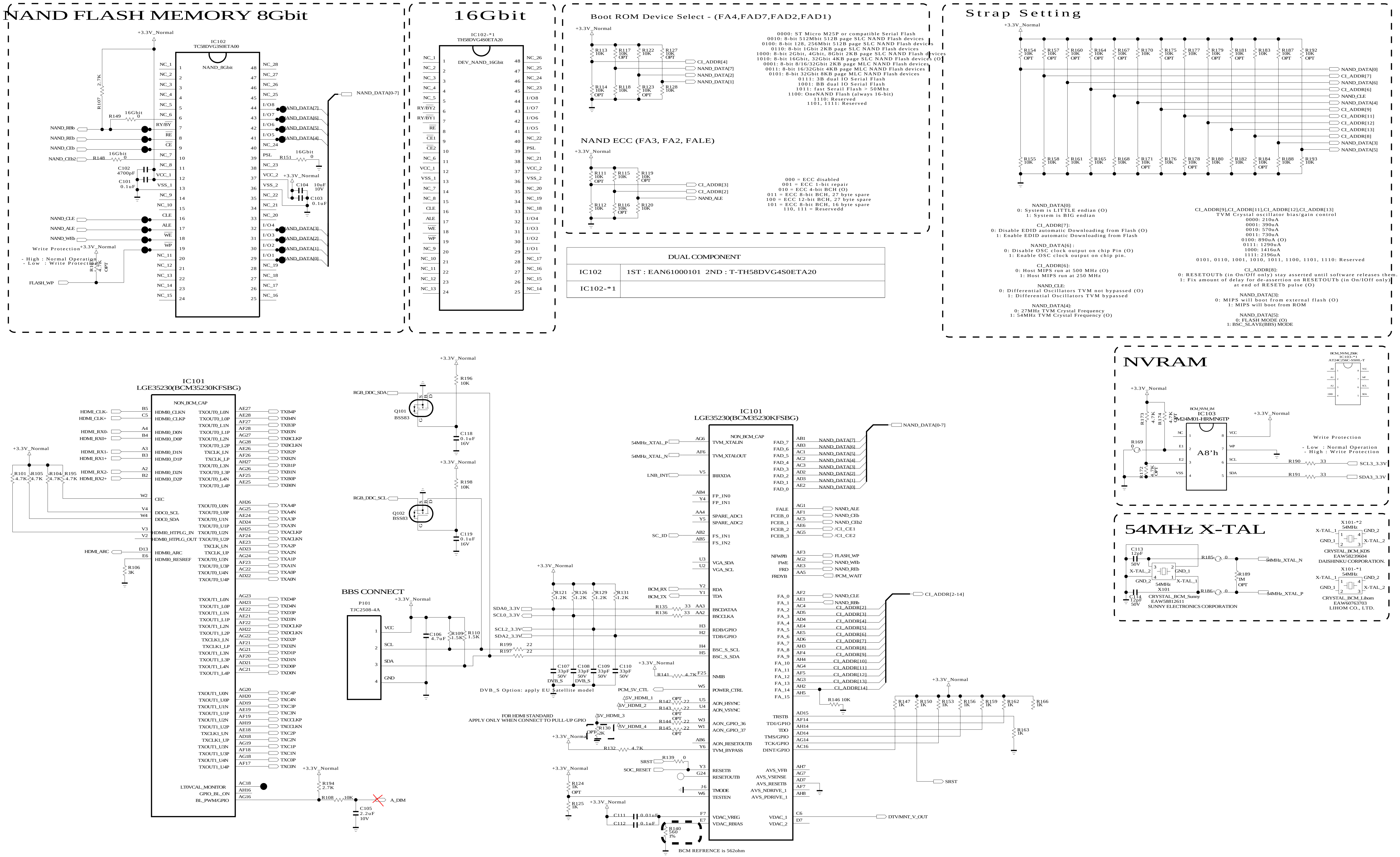
IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by ⚠ in the Schematic Diagram and EXPLODED VIEW.
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.
Do not modify the original design without permission of manufacturer.



55LW5600 EXPLODED VIEW PARTS LIST

Loc No	Part No	Description(Local)	Specification
120	EAB62088401	Speaker,Full Range	EN1080C-6795 ND 10W 8OHM 79DB 150HZ 200x25x27 CONTACT KOREA TOP TONE CO.,LTD.
200	EAJ61750001	LCD,Module-TFT (All Models)	LC550EUF-SDF1 FHD 55.0INCH 1920X1080 400CD COLOR 99% 16/9 1600:1 240Hz(T) Inverter N 10bit(D) NRT-AGP 178/178 MPRT 6ms Edge 160PKG 10000K LVDS 4port (108.5W) 14.4Kg V6 LG Display Co. Ltd.
200	EAJ61928201	LCD,Module-TFT (AUSYLJR, AUSYLUR)	LC550EUF-SDF2 FHD 55.0INCH 1920X1080 400CD COLOR 99% 16/9 1600:1 240Hz(T) Inverter N 10bit(D) NRT-AGP 178/178 MPRT 6ms Edge 160PKG 10000K LVDS 4port (108.5W) 14.4Kg V6 LW4/LW5 Series LG Display Co. Ltd.
300	ABJ73289206	Cabinet Assembly	55LW5600-UA - 55" 55LW4500(5600)_CABINET ASS'Y_Rocal Ass'y
400	ACQ83853202	Cover Assembly,Rear	55LW4500 - 55" 55LW4500_B/C ASS'Y_C/SKD
510	EBR72671301	PCB Assembly,Sub	IR+TOUCH ASS'Y CONTROL T.T . LV/LW4500/LV2500/LK550/LK450 . IR+TOUCH ASS'Y
511	MAZ62853702	Bracket	MOLD HIPS BRACKET 42LW4500 - HIPS 42/47LW4500 SOFT TOUCH BRACKET FOR C/SKD
521	MGJ62689302	Plate,Shield	PRESS EGI 0.5 SHIELD EGI LV5 Side AV Metal Bracket(NTSC)_CSKD of "01"
530	EAY62169901	Power Supply Assembly	LGP55-11SLPB FREE LGP55-11SLPB LCD HNE/YUYANG/LGIT/LIENCHANG - H&E CO.,LTD
540	EBR72717002	BPR Insert PCB Assembly (AUSYLHR)	MAIN M.I LA12C 55LW5600-UA KxxYLJR CKD
540	EBR73145701	PCB Assembly,Main (AUSYLJR)	MAIN PAKING LA12C 55LW5600-UA SUSYLJR US, ESN
540	EBR72717004	BPR Insert PCB Assembly (AUSYLUR)	MAIN M.I LA12C 55LW5600-UA KxxYLJR CKD
540A	EBT61398007	Chassis Assembly (AUSYLUR)	MAIN LA12C 55LW5600-UA.KxxYLJR (CKD, ALL)
580	EBR72499601	PCB Assembly,RF Motion Remote	RF RECEIVER Assy SUB T.T . LV1 - LV5 . MOTION REMOCON RECEIVER + 3D EMMITER ASSY.
710	MAZ62827604	Bracket	MOLD ABS AF-312 BRACKET 47LW7500 - ABS Cord BRK_Non Flame_C/SKD
810	MJH62256302	Supporter	PRESS EGI 2.0 Supporter EGI HGI, 55LW7500, Metal stand guide_ CSKD
900	AAN73489004	Base Assembly	STAND 55LV35 - Stand assy XG570_CSKD
910	MJH62256203	Supporter	MOLD LUPOY Supporter PC 55LV3500, stand body top, PC+GF20%_CSKD of 01
A1	MFL62882745	Manual,Owners	PRINTING USER LA01A LG GP3 EN (1) LGEUS
A2	AKB72914043	Remote Controller Assembly	LCD LS-Con (LZ9700/LW9500/LW7700/LW5700) 3D & BB TV for CANADA & MEXICO
A3	EAD60817902	Power Cord	P090376 LP-30B 90011HS-H03D(90011TS-D) 1.625M 75MM 125V 10A SVT 18AWG 3C BLACK. UL/CSA
A7	EAT60713301	Wireless Dongle (Not AUSYLHR)	WN8522B2-LF-19 AN-WF100 UPC Code (719192578838) BCM4323 802.11a/b/g/n Dual Band Wi-Fi USB Dongle Arcadyan
A7	EAT60713302	Wireless Dongle (Not AUSYLHR)	WN8522B2-LF-19 EAN AN-WF100 EAN Code(8808992870876) BCM4323 802.11a/b/g/n Dual Band Wi-Fi USB Dongle Arcadyan Technology Corporation
A7	EAT60713304	Wireless Dongle (Not AUSYLHR)	WN8522B2-LF-19 Dongle Only AN-WF100 BCM4323 802.11a/b/g/n Dual Band Wi-Fi USB Dongle Arcadyan Technology Corporation
A10	FAB30016104	Screw Assembly	FAB30016104 MACHINE TYPE D4.0 L12.0 WASHER D8.5 t0.6 SEUNGBO MECHA TECH CO.,LTD
A13	EBX61268401	Accessory,3D Glasses	3D Passive Glasses 47LH503D-ND 3D Passive Glasses_for adult(Black) SEESUN CO.,LTD
A21	MCK66265801	Battery Cover (Remote)	MOLD ABS XG-568 M3 Remocon ABS M3 Remocon Battery Cover
A23	AKB73295502	Motion Remote Controller Assembly	M3_REMOTE CONTROLLER(BAR TYPE) FOR U.S.A(LG)
A21	MCK66265801	Battery Cover (Remote)	MOLD ABS XG-568 M3 Remocon ABS M3 Remocon Battery Cover
A23	AKB73295502	Motion Remote Controller Assembly	M3_REMOTE CONTROLLER(BAR TYPE) FOR U.S.A(LG)
LV1	EAD61652507	LVDS Cable,FFC P3502	EAD61652507 505MM 0.50MM 41P WHITE UL20861 Reverse A: 125mm B: 250mm C: 135mm D: 70mm
LV2	EAD61668619	LVDS Cable,FFC P3501	EAD61668619 415MM 0.50MM 51P WHITE UL20861 Reverse Locking A: 125mm B: 210mm C: 100mm D: 70mm



THE ⚠ SYMBOL MARK OF THIS SCHEMETIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILRE AND ELECTRICAL SHOCK HAZARDS, WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFATURES SPECFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE ⚠ SYMBOL MARK OF THE SCHEMETIC.

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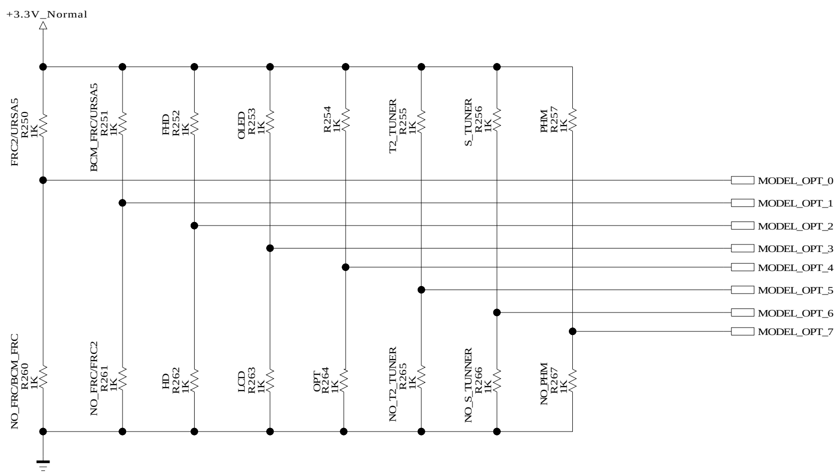
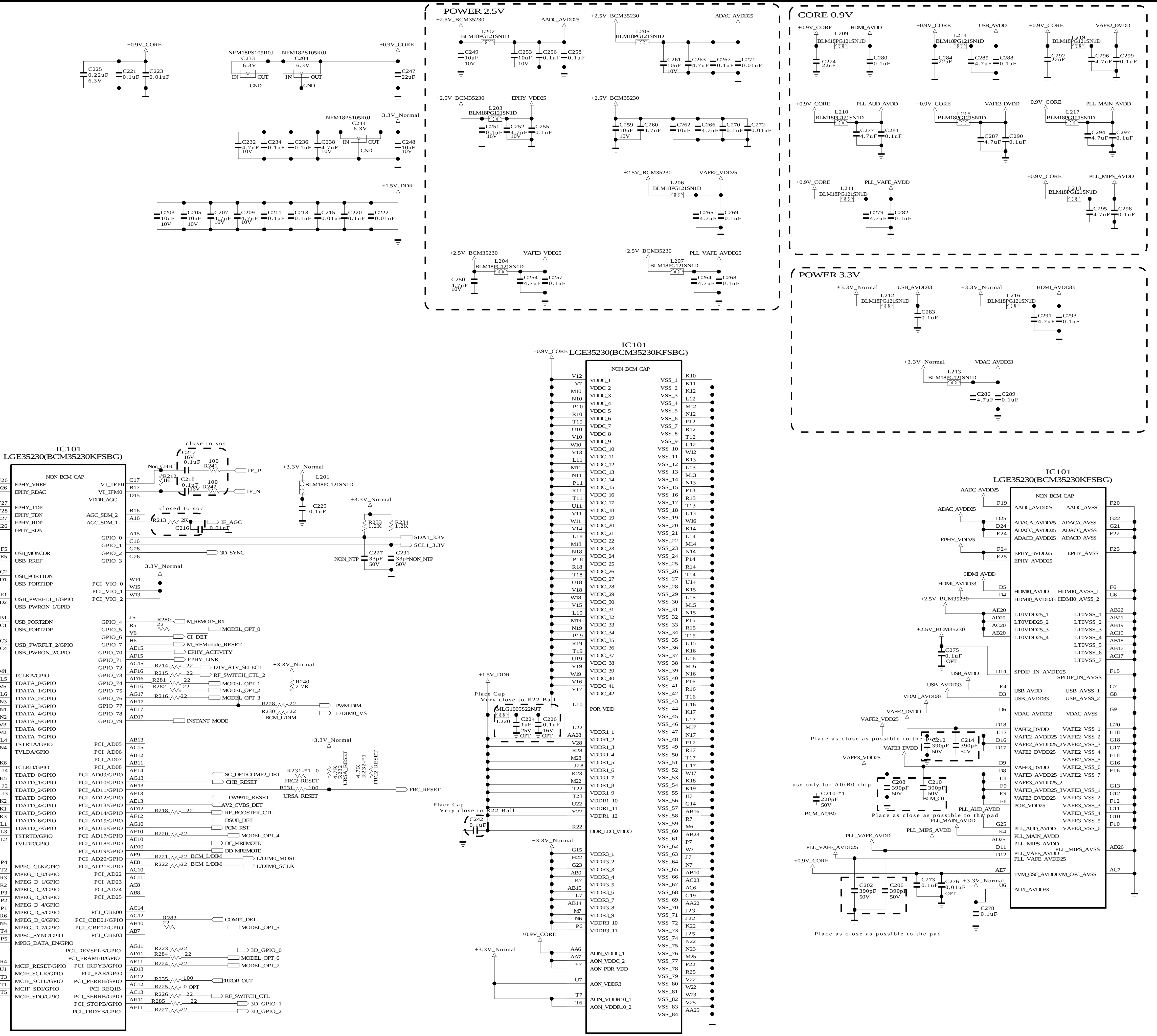
MODEL	BCM35230	DATE	2010.09.18
BLOCK	MAIN & NAND FLASH	SHEET	1



MODEL OPTION

	NO_FRC	BCM internal FRC	LG FRC2	external URSA5
MODEL_OPT_0	0	0	1	1
MODEL_OPT_1	0	1	0	1

		HIGH	LOW
MODEL_OPT_2		FHD	HD
MODEL_OPT_3		OLED	LCD
MODEL_OPT_4	DDR speed	1333	1600
MODEL_OPT_5	T2 Tuner	Support	Not Support
MODEL_OPT_6	S Tuner	Support	Not Support
MODEL_OPT_7	PHM	Enable	Disable



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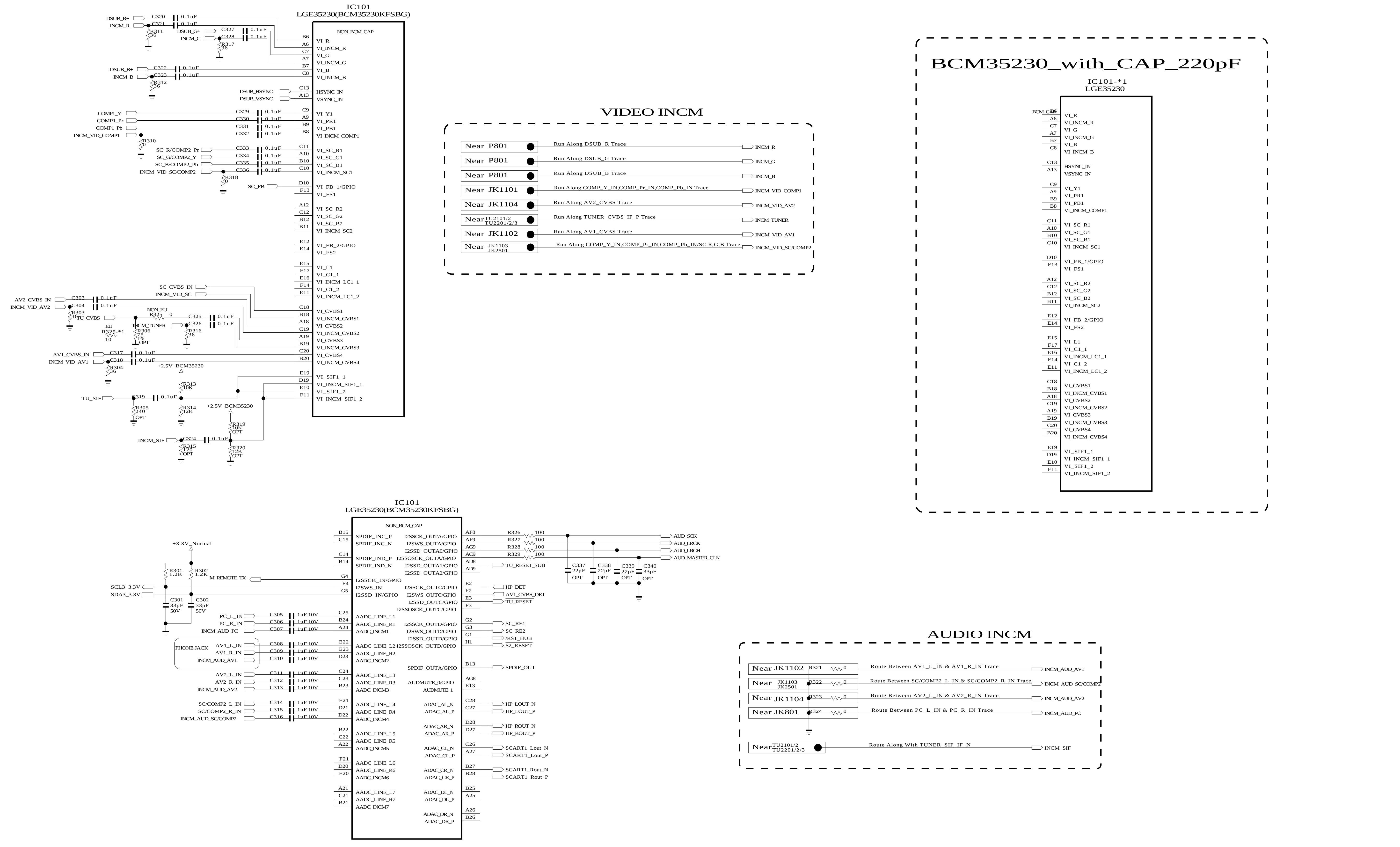
MODEL	BCM35230	DATE	
BLOCK	MAIN POWER	SHEET	2 / 50



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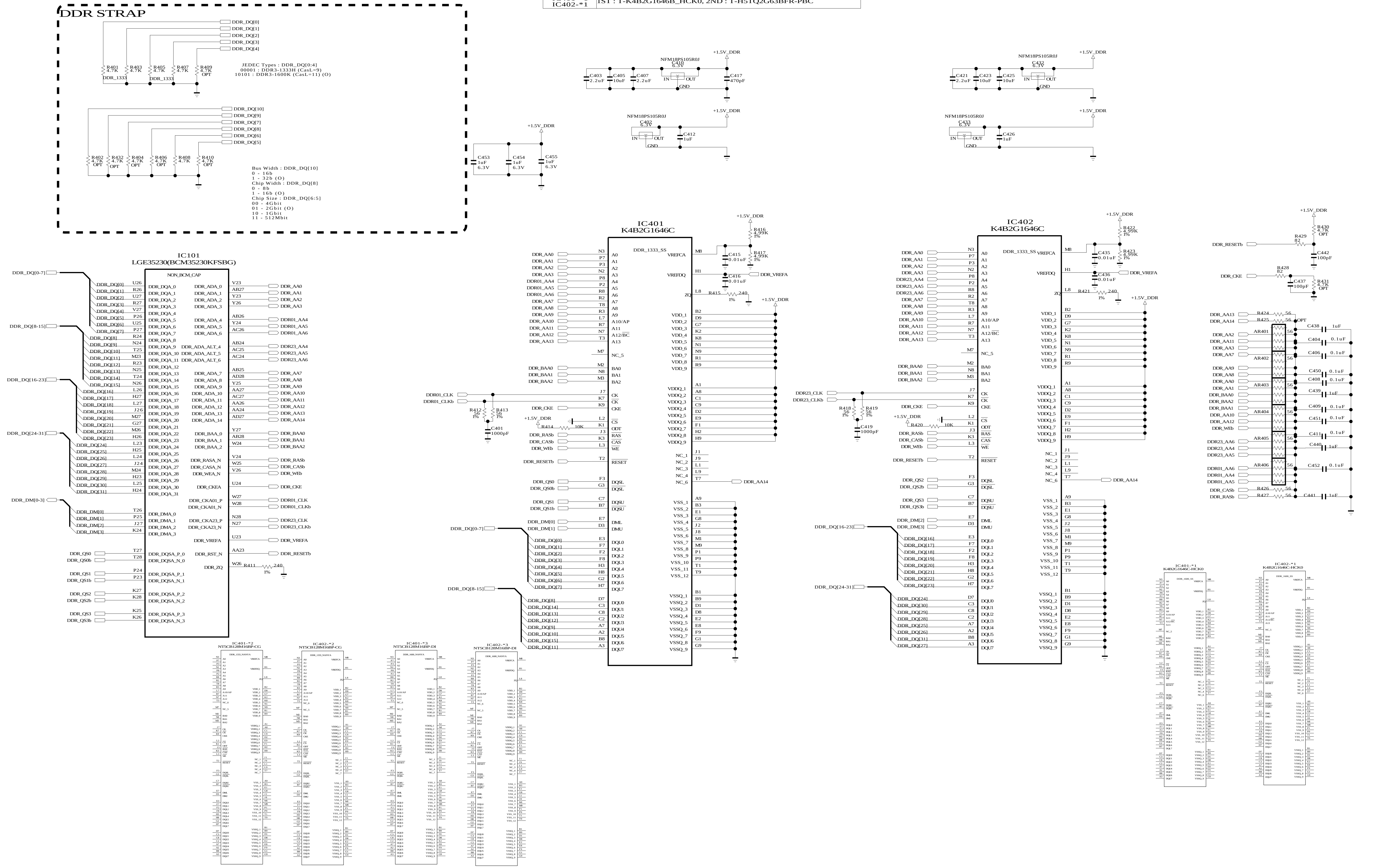
MODEL	BCM35230	DATE	
BLOCK	MAIN AUDIO/VIDEO	SHEET	3 / 50

DUAL COMPONENT	
IC401,IC402	1ST : EAN61667501, 2ND : EAN61570701
IC401-*1 IC402-*1	1ST : T-K4B2G1646B_HCK0, 2ND : T-H5TQ2G63BFR-PBC



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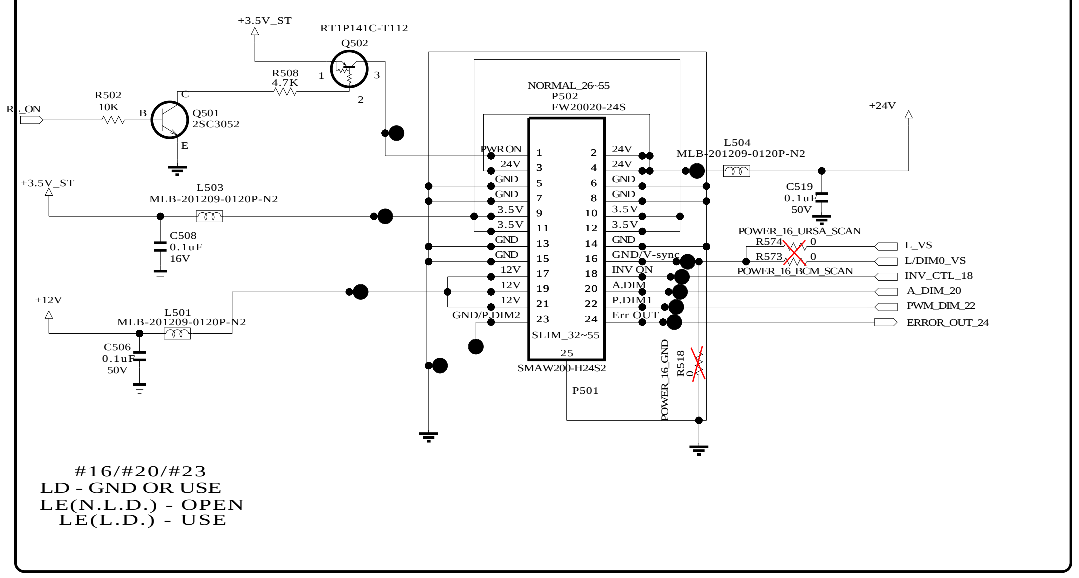
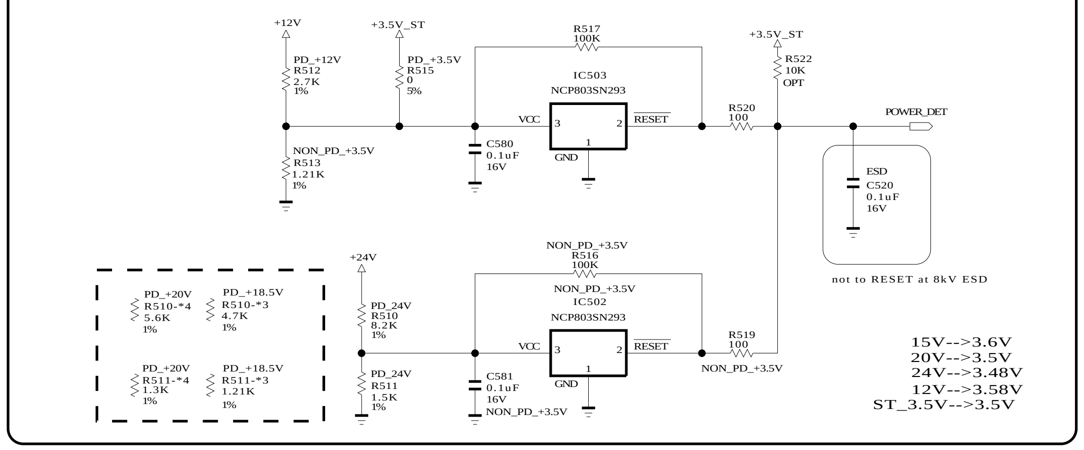
MODEL	BCM35230	DATE	
BLOCK	MAIN DDR	SHEET	4 / 50

DUAL COMPONENT	
Q501,Q504, Q505,Q506	1ST : 0TRIY80001A 2ND : 0TR387500AA
Q502	1ST : 0TRIH80004A, 2ND : EBK61012501, 3RD : 0TR102009AM
Q507	1ST : EBK60752501, 2ND : EBK61011501
IC502,IC503	1ST : EAN61151001, 2ND : EAN60670101

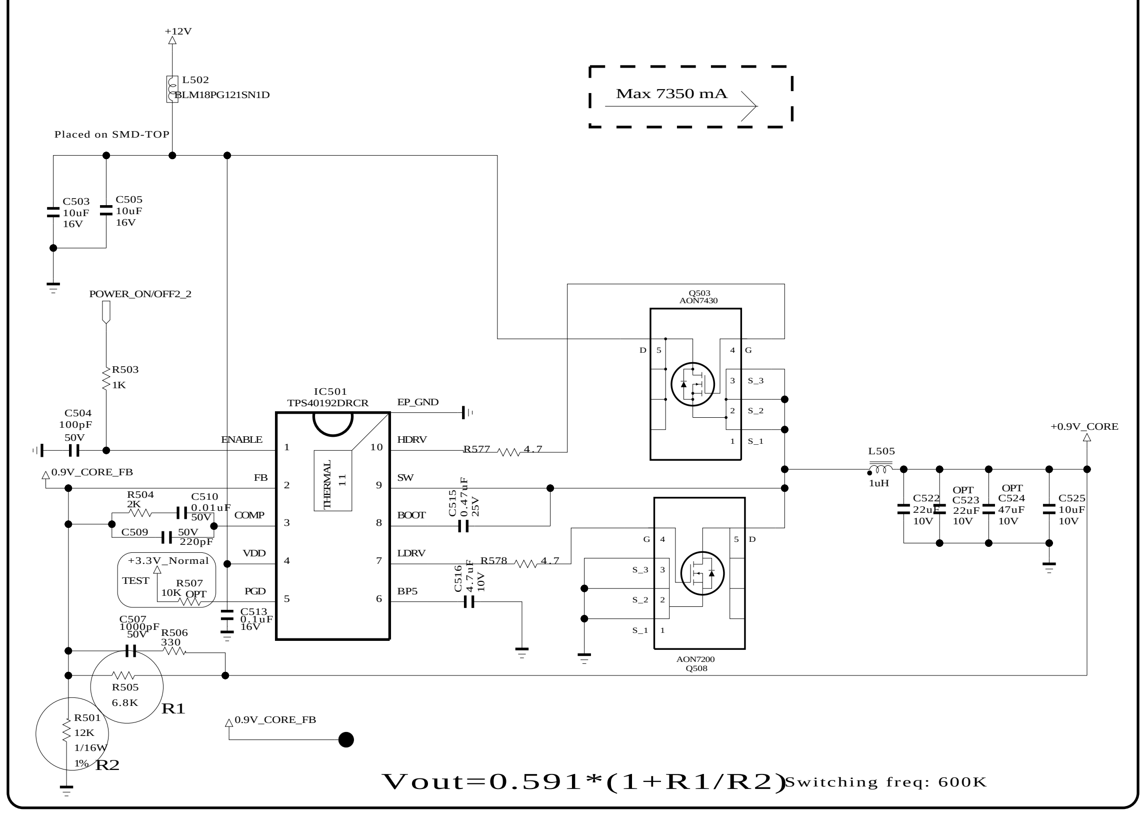
FROM LIPS & POWER B/D



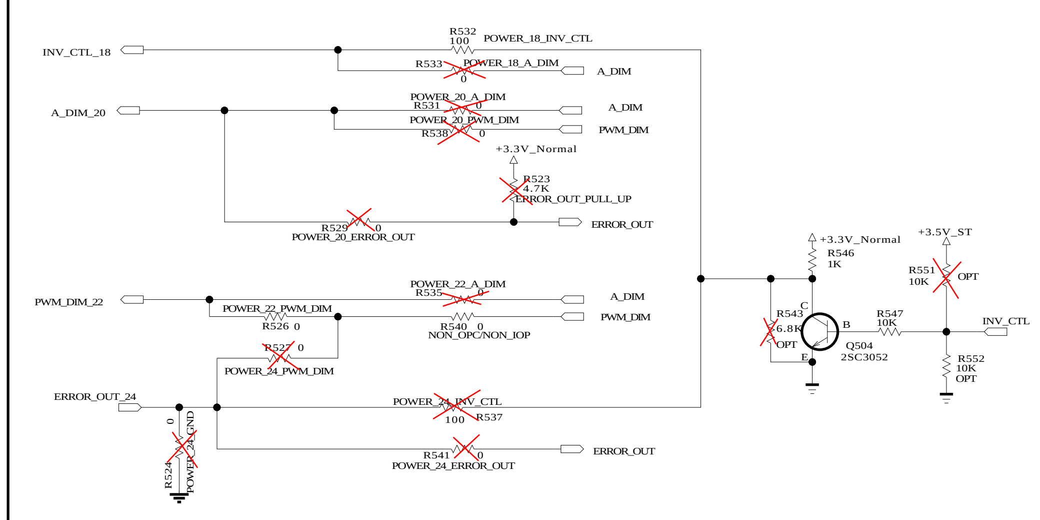
Power_DET



+0.9V_CORE_BCM35230



OS Module OPT

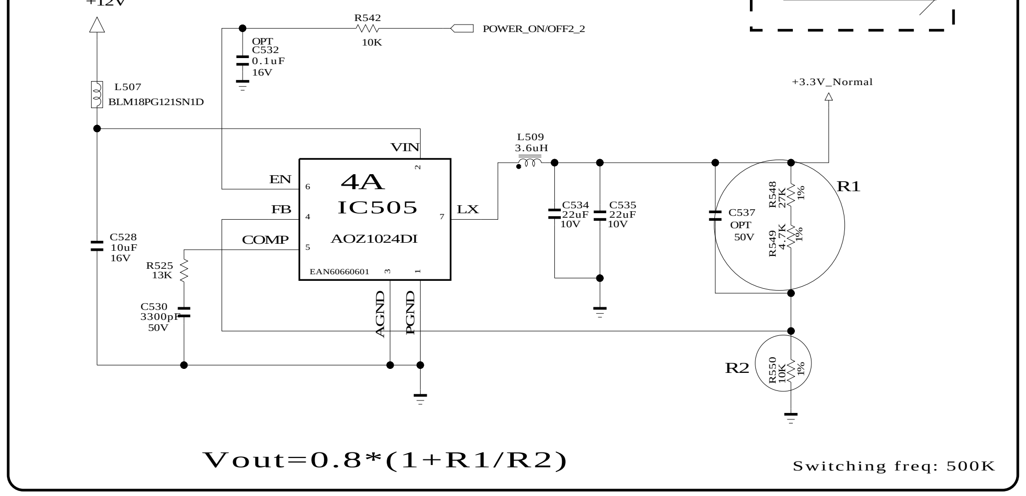


<OS MODULE PIN MAP>

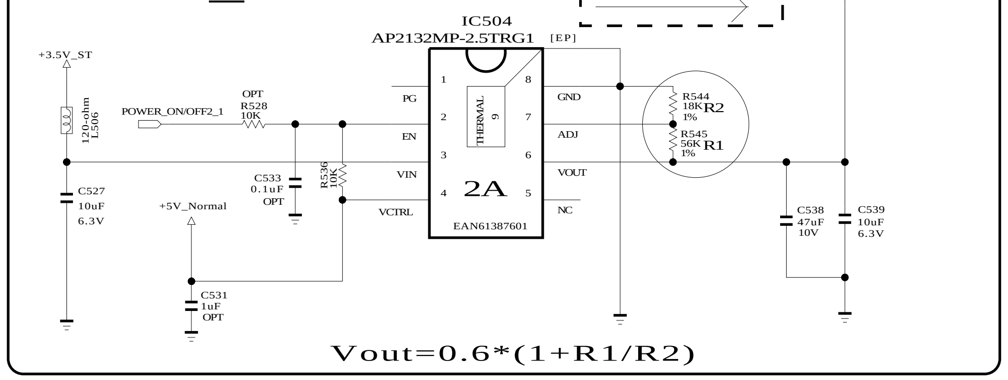
PIN No	LGD	CMO(09)	AUO	SHARP
18	INV_ON	A-DIM	INV_ON	INV_ON
20	V4:VBR-A V5:NC	NC	Err_out	Err_out
22	PWM_DIM	PWM_DIM	A-DIM	PWM_DIM
24	Err_out LED:GND	INV_ON	PWM_DIM	GND

CHECK PWR/MODULE PIN MAP

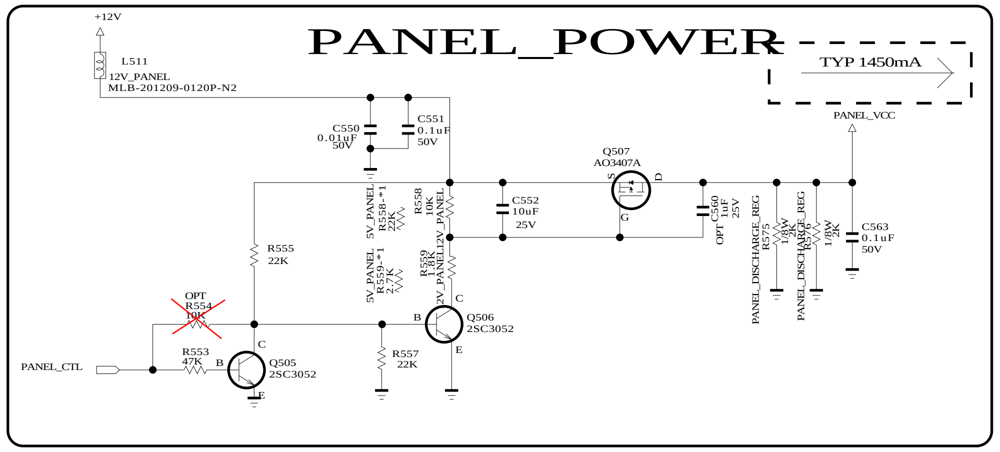
+3.3V_NORMAL



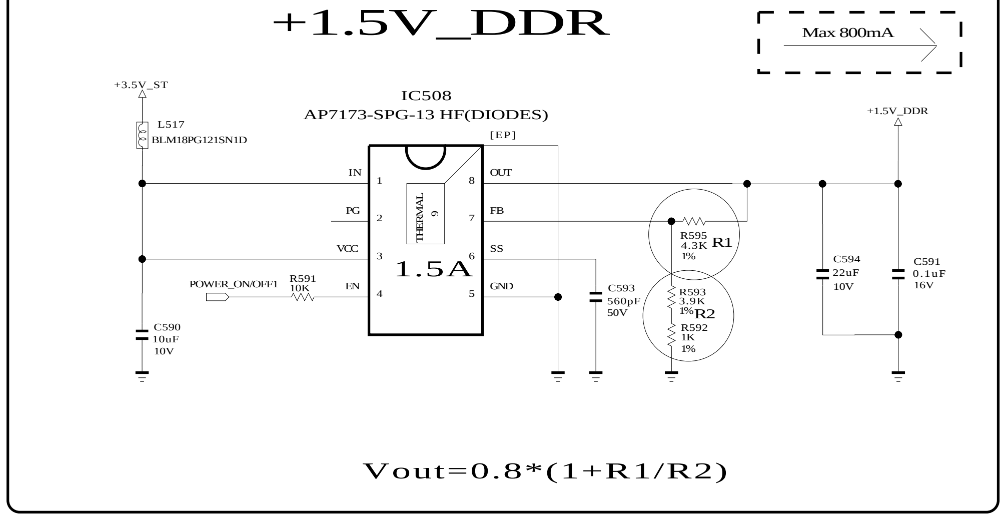
+2.5V_BCM35230



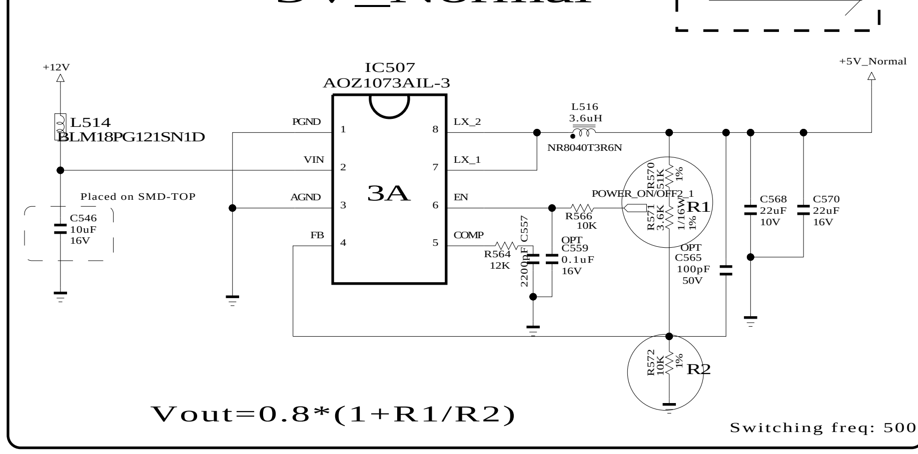
PANEL_POWER



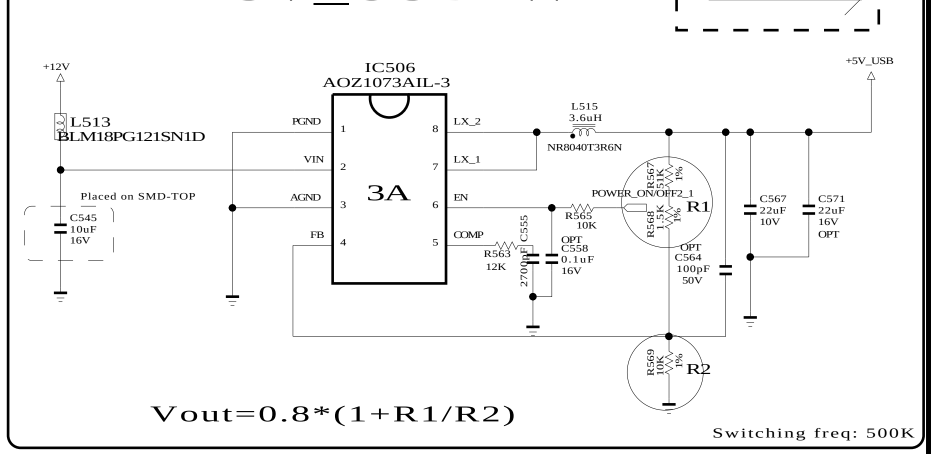
+1.5V_DDR



+5V_Normal



+5V_USB+WIFI



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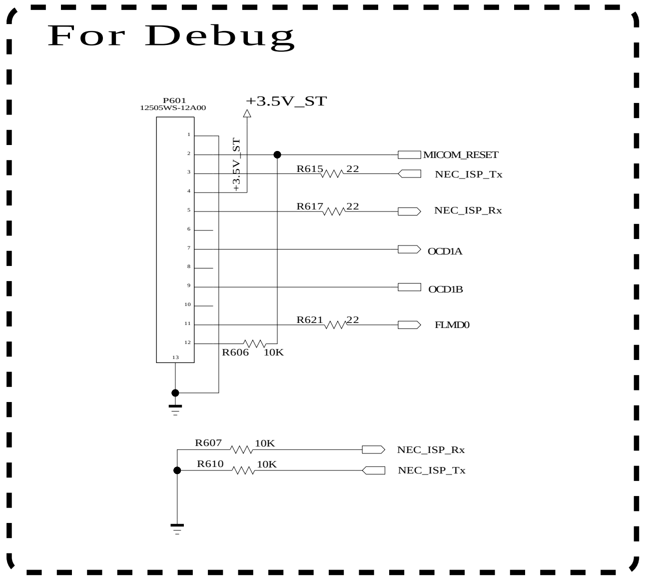
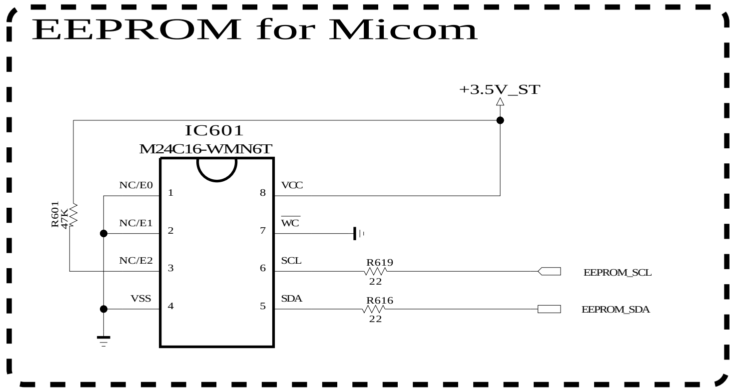
MODEL	BCM35230	DATE	
BLOCK	POWER	SHEET	5 / 58

NEC MICOM

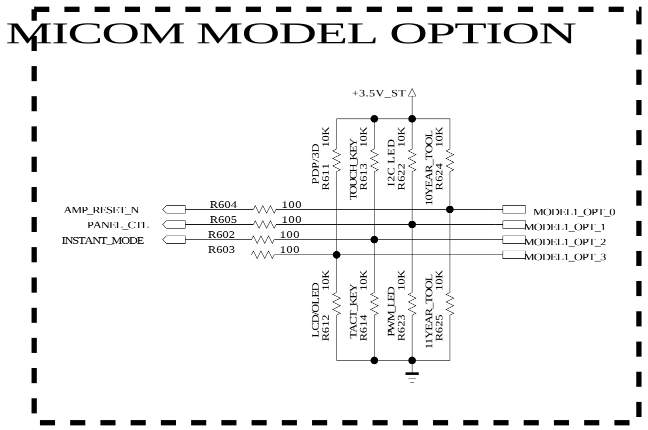
For Debug



EEPROM for Micom



MICOM MODEL OPTION

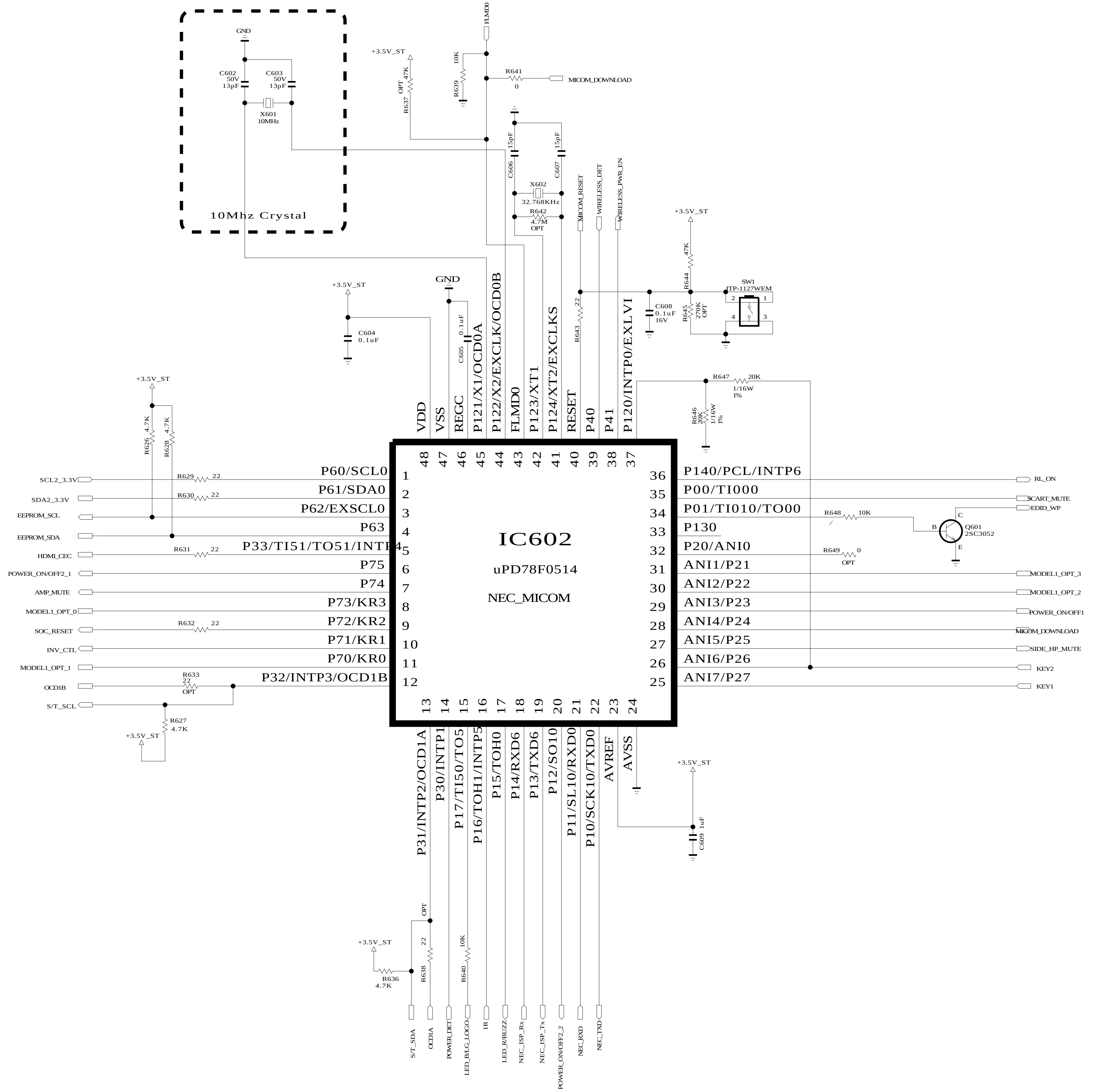


MODEL OPTION

PIN NAME	PIN NO.	HIGH	LOW
MODEL_OPT_0	8	10YEAR_TOOL (10 SENSOR)	11YEAR_TOOL (11 SENSOR)
MODEL_OPT_1	11	I2C_LED	PWM_LED
MODEL_OPT_2	30	TOUCH_KEY	TACT_KEY
MODEL_OPT_3	31	PDP/3D	LCD/OLED

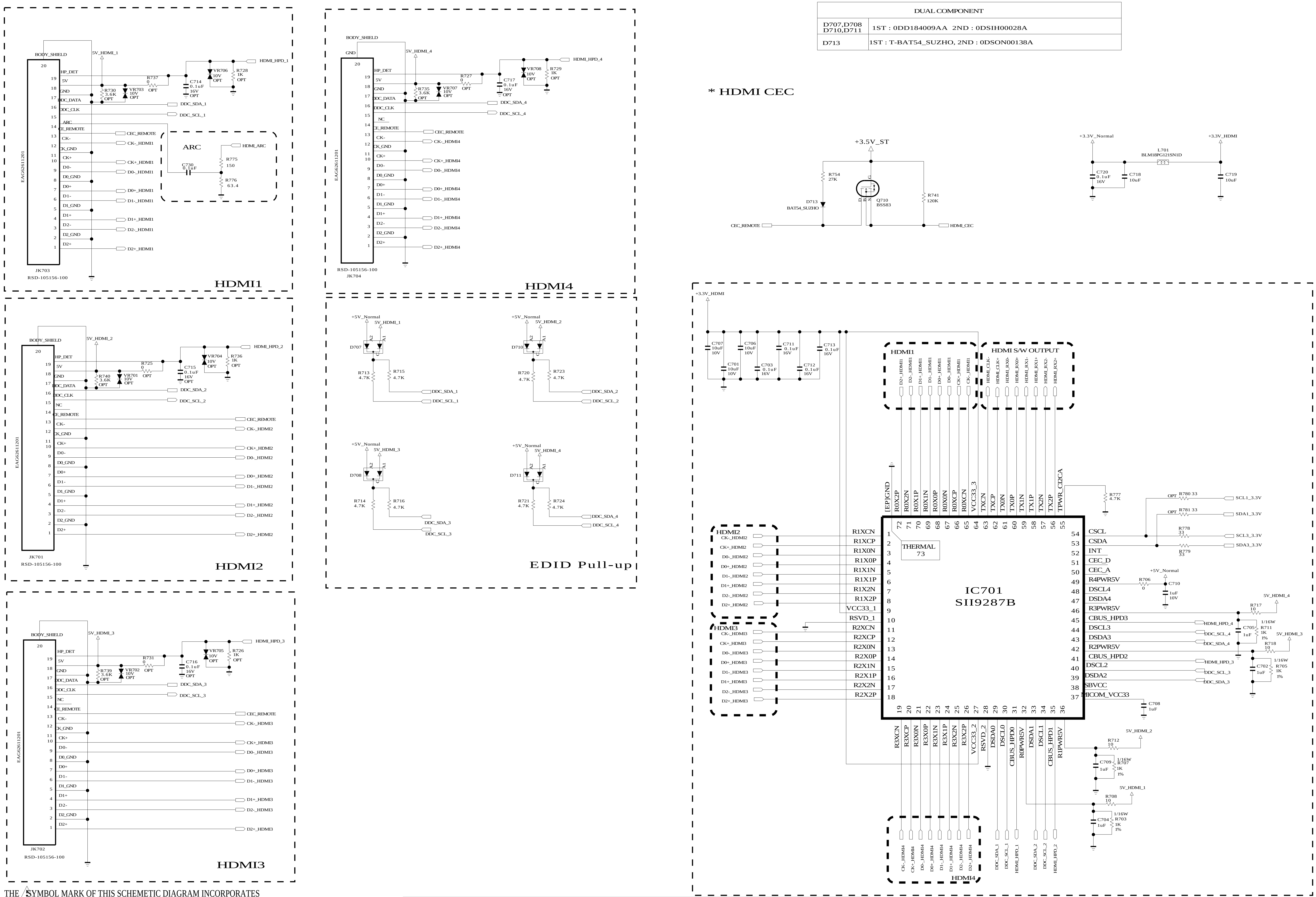
	LCD	PDP	OLED	3D
MODEL_OPT_3	0	1	0	1

	LOW	LOW_SMALL	TBD	HIGH
MODEL_OPT_1	0	0	1	1
MODEL_OPT_2	0	1	0	1



MODEL	BCM35230	DATE	
BLOCK	MICOM	SHEET	6 / 50

DUAL COMPONENT	
D707,D708 D710,D711	1ST : 0DD184009AA 2ND : 0DSIH00028A
D713	1ST : T-BAT54_SUZHO, 2ND : 0DSON00138A



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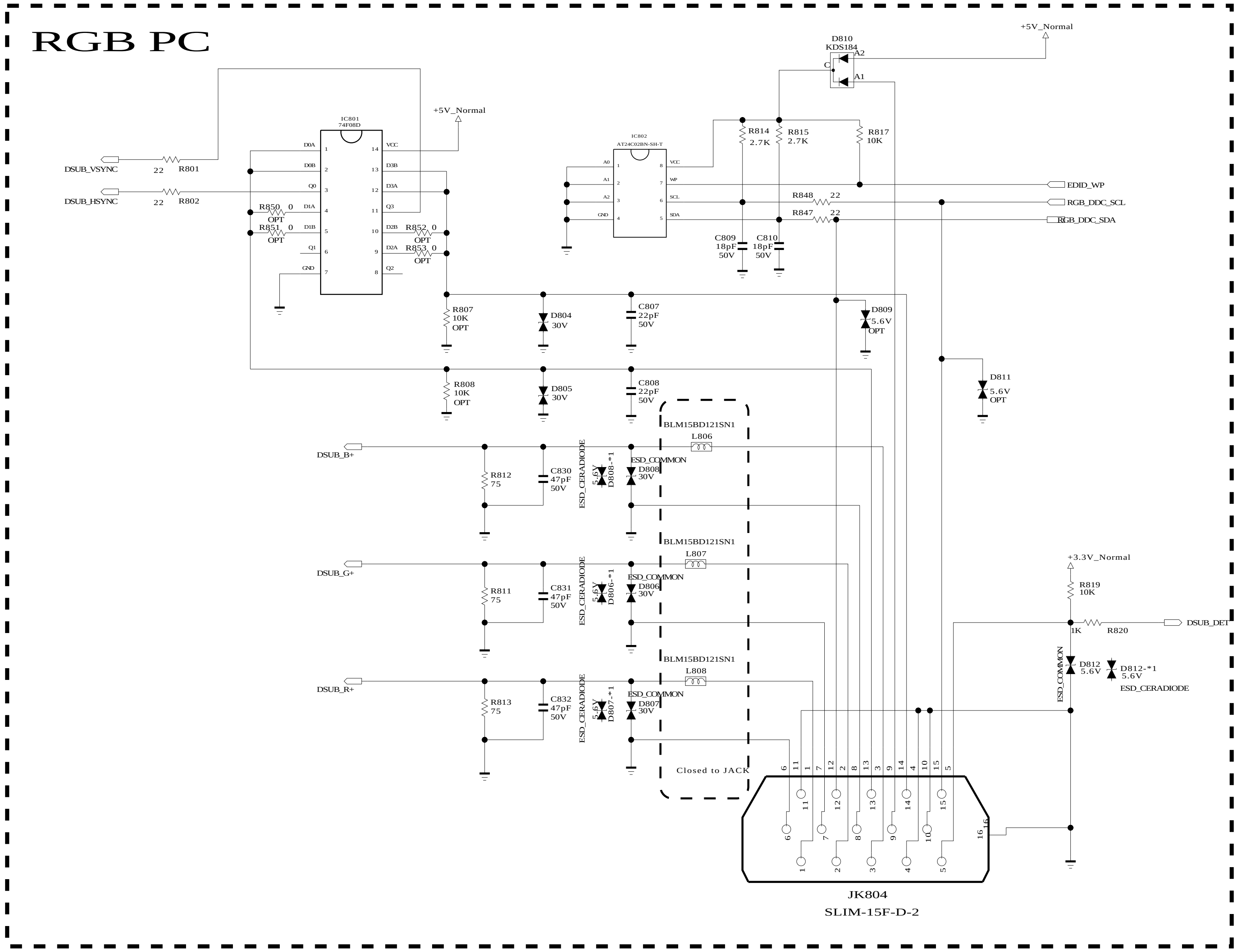
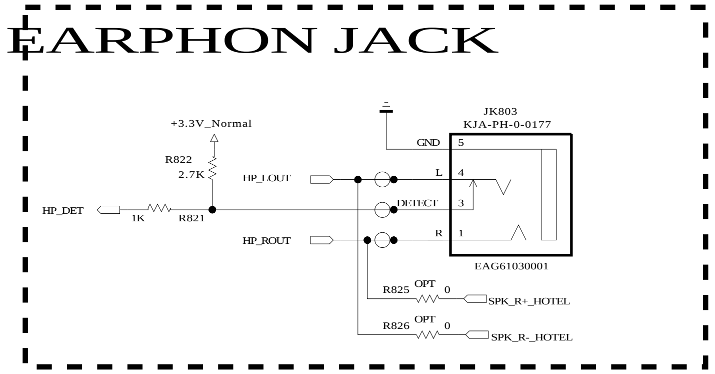
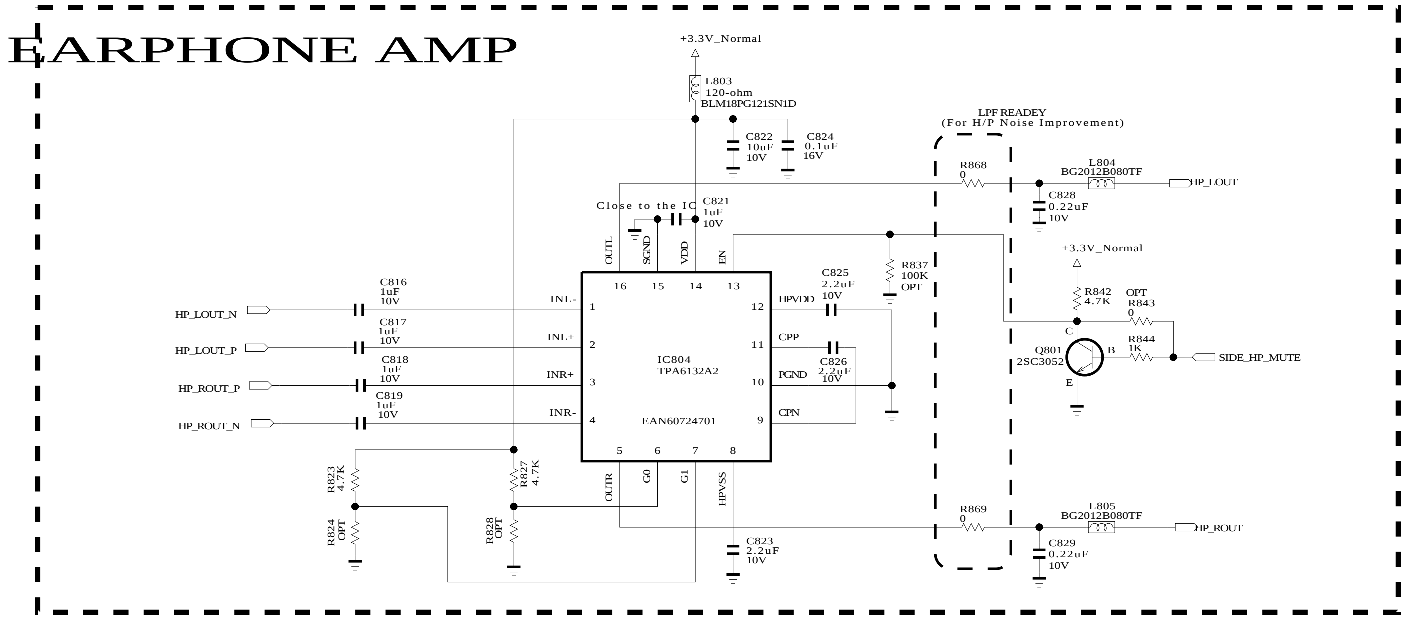
MODEL	BCM35230	DATE	
BLOCK	HDMI	SHEET	7 / 31

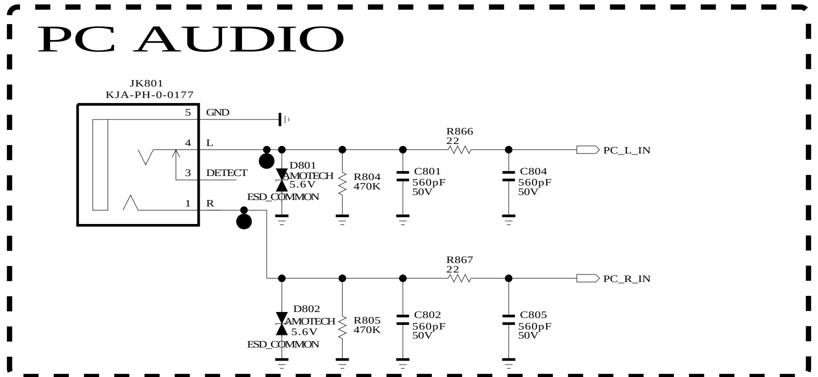
RGB/ PC AUDIO/ SPDIF/ EARPHONE/ RS232C

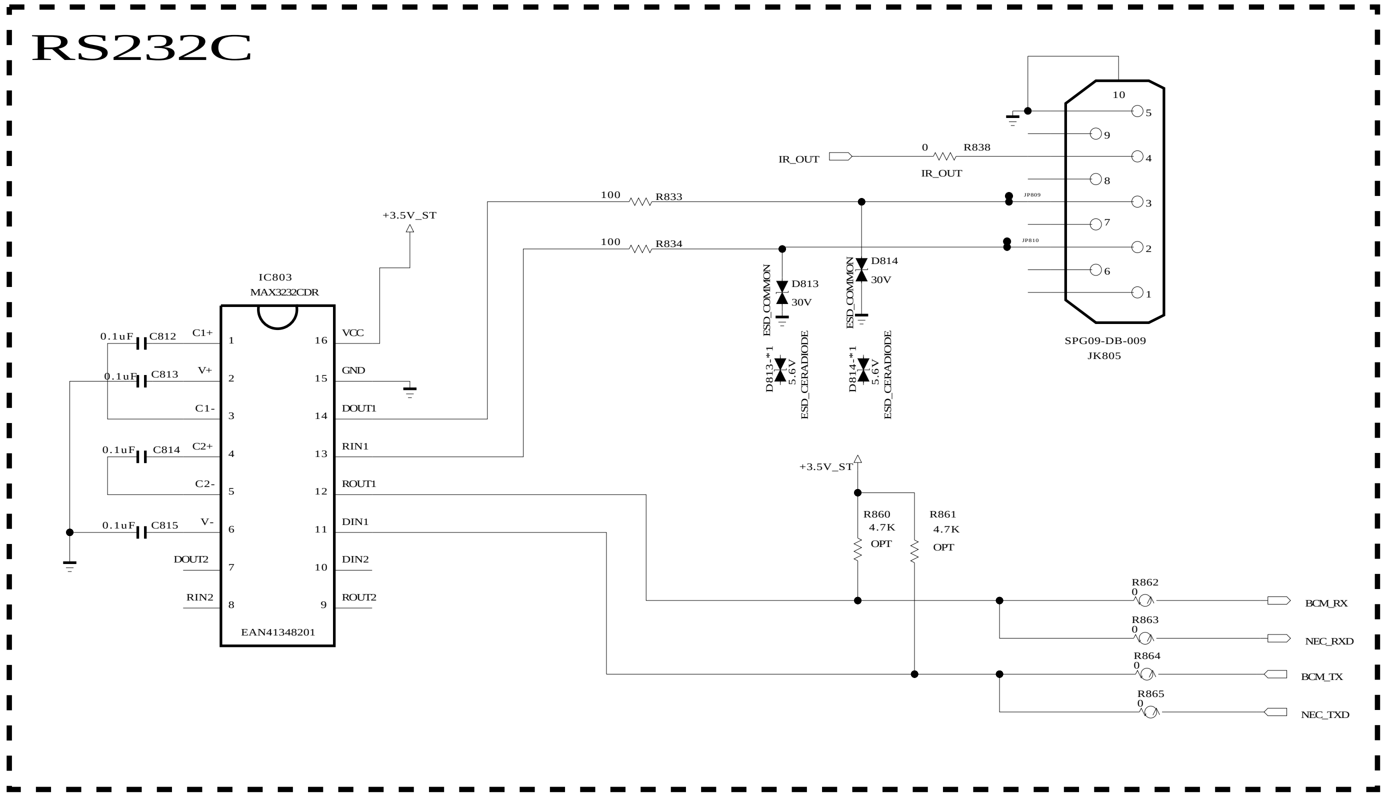


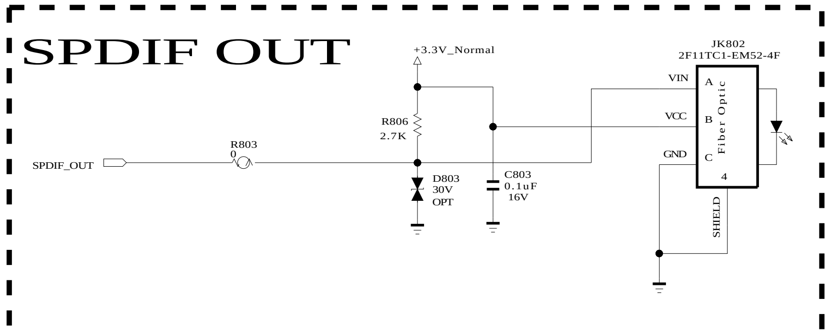


DUAL COMPONENT	
D804,D805,D806 D807,D808,D813 D814	1ST : EAH39491601, 2ND : EAH33945901
D810	1ST : 0DD184009AA, 2ND : 0DSIH00028AA
Q801	1ST : 0TRIY80001A, 2ND : 0TR387500AA
IC805	1ST : EAN61151201, 2ND : EAN61130001









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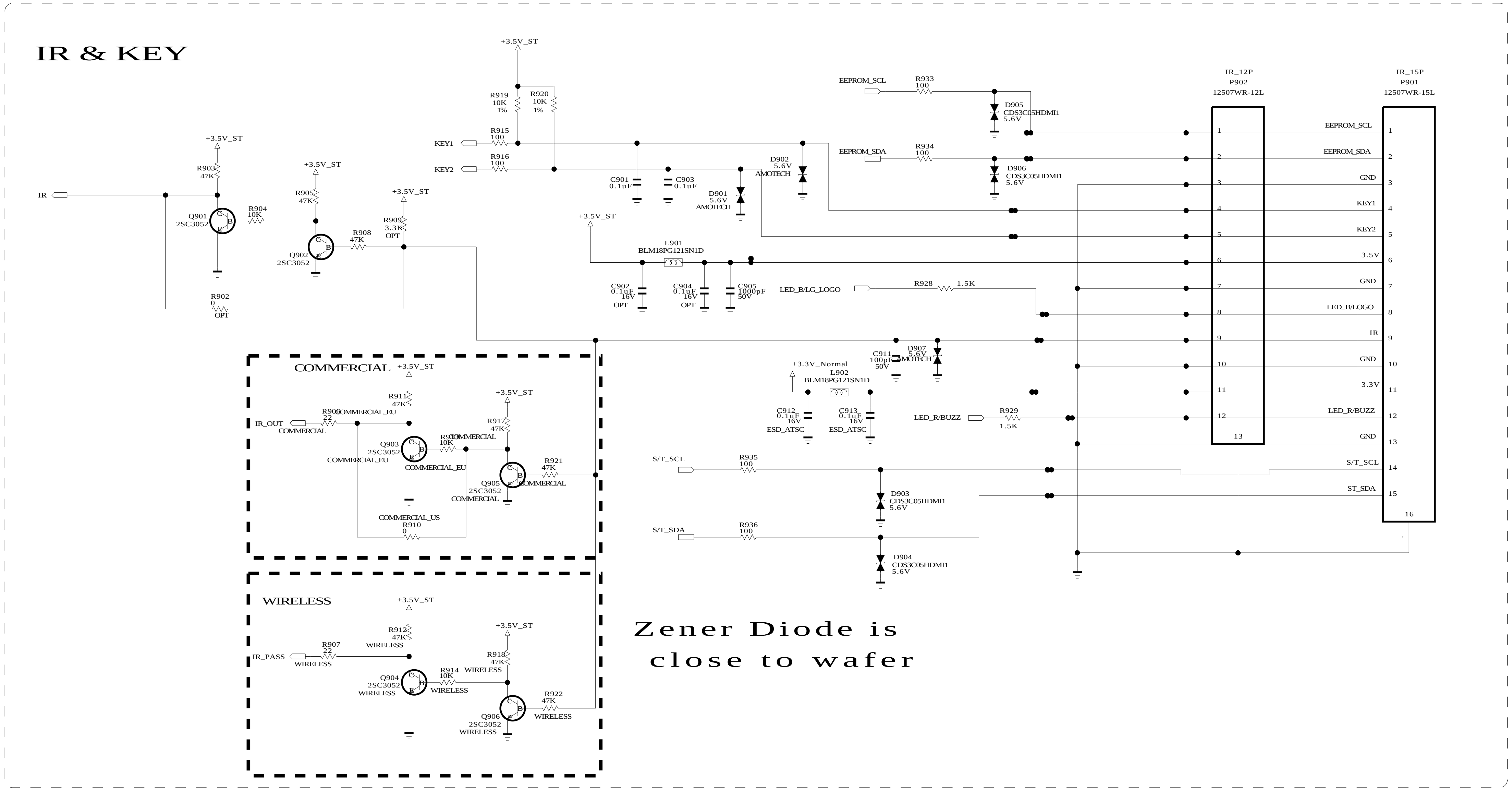
MODEL	BCM35230	DATE	2010.10.21
BLOCK	COMMON JACK	SHEET	8 / 58

DUAL COMPONENT	
Q901,Q902,Q903 Q904,Q905,Q906	1ST : 0TRIY80001A 2ND : 0TR387500AA
D903,D904 D905,D906	1ST : EAH42720601, 2ND : EAH60994401

IR & KEY



Zener Diode is close to wafer

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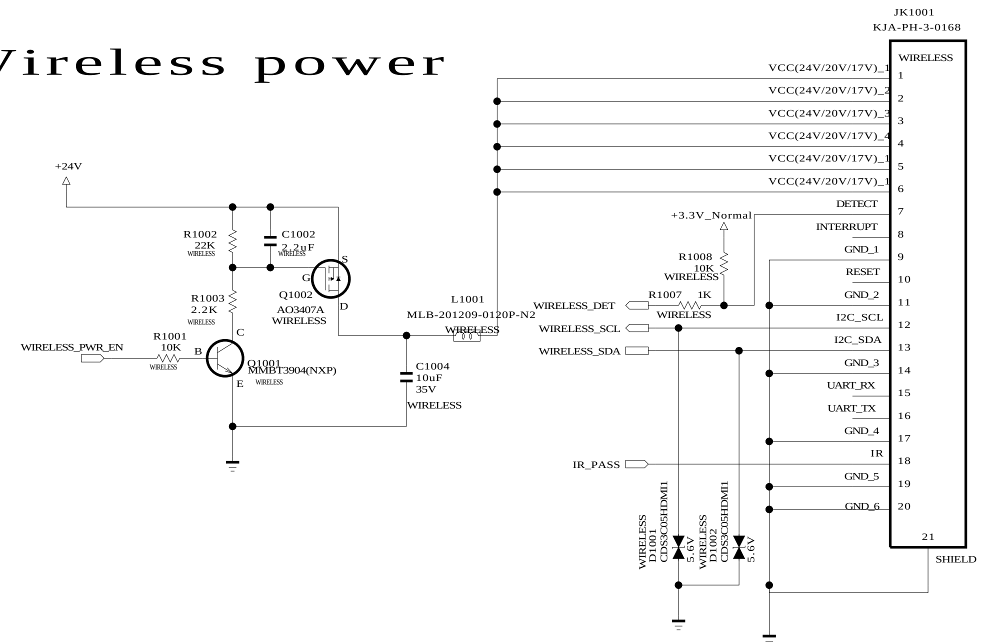
MODEL	BCM35230	DATE	
BLOCK	IR/KEY	SHEET	9 / 50

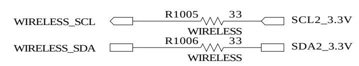
WIRELESS READY MODEL

DUAL COMPONENT	
D1001,D1002	1ST : EAH42720601 2ND : EAH60994401
Q1001	1ST : EBK61012601, 2ND : 0TRDI80002A
Q1002	1ST : EBK60752501, 2ND : EBK61011501

Wireless power



Wireless I2C connection with I2C_1
Address : 0X20



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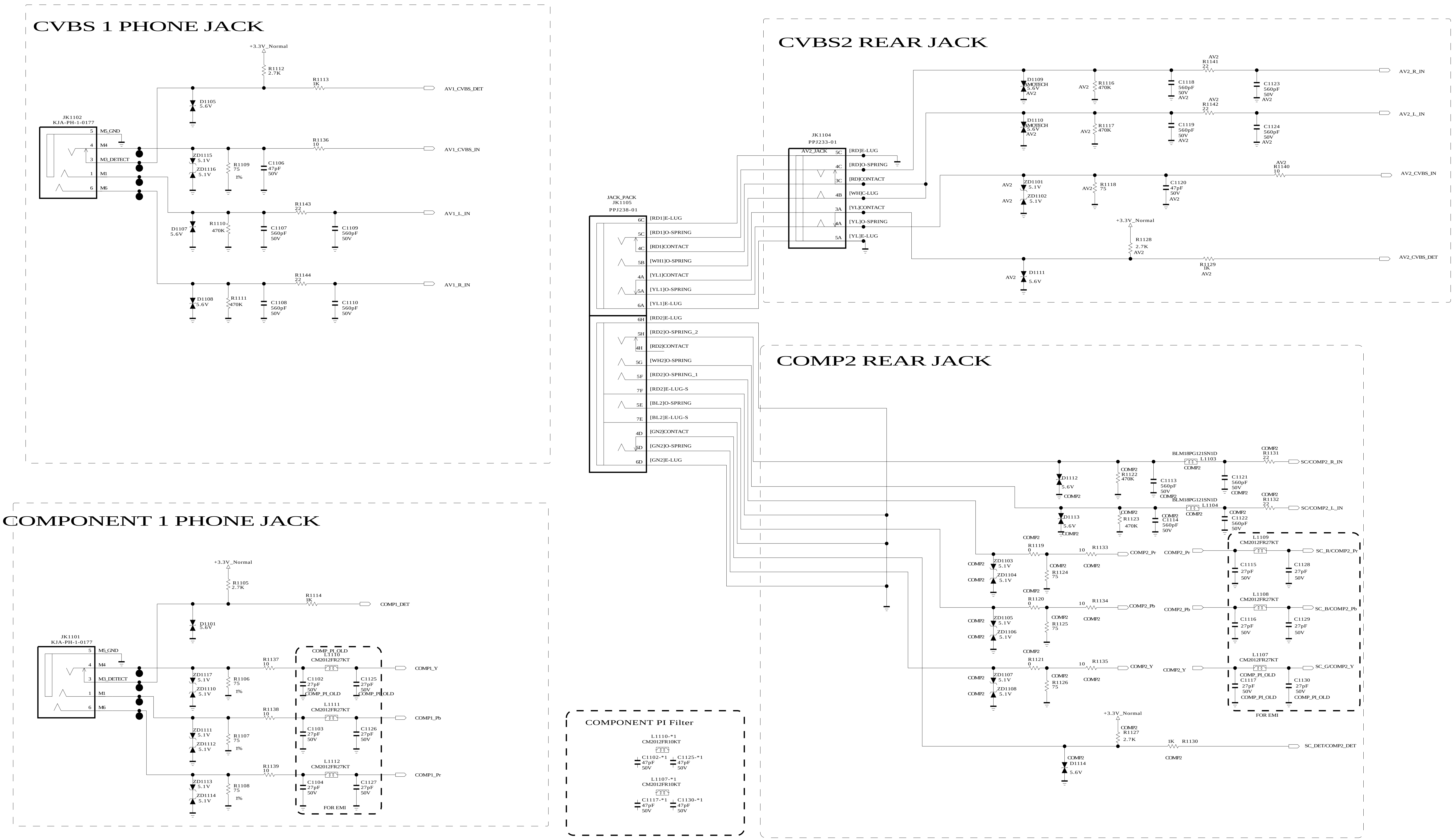
MODEL	BCM35230	DATE	
BLOCK	WIRELESS	SHEET	10 / 50



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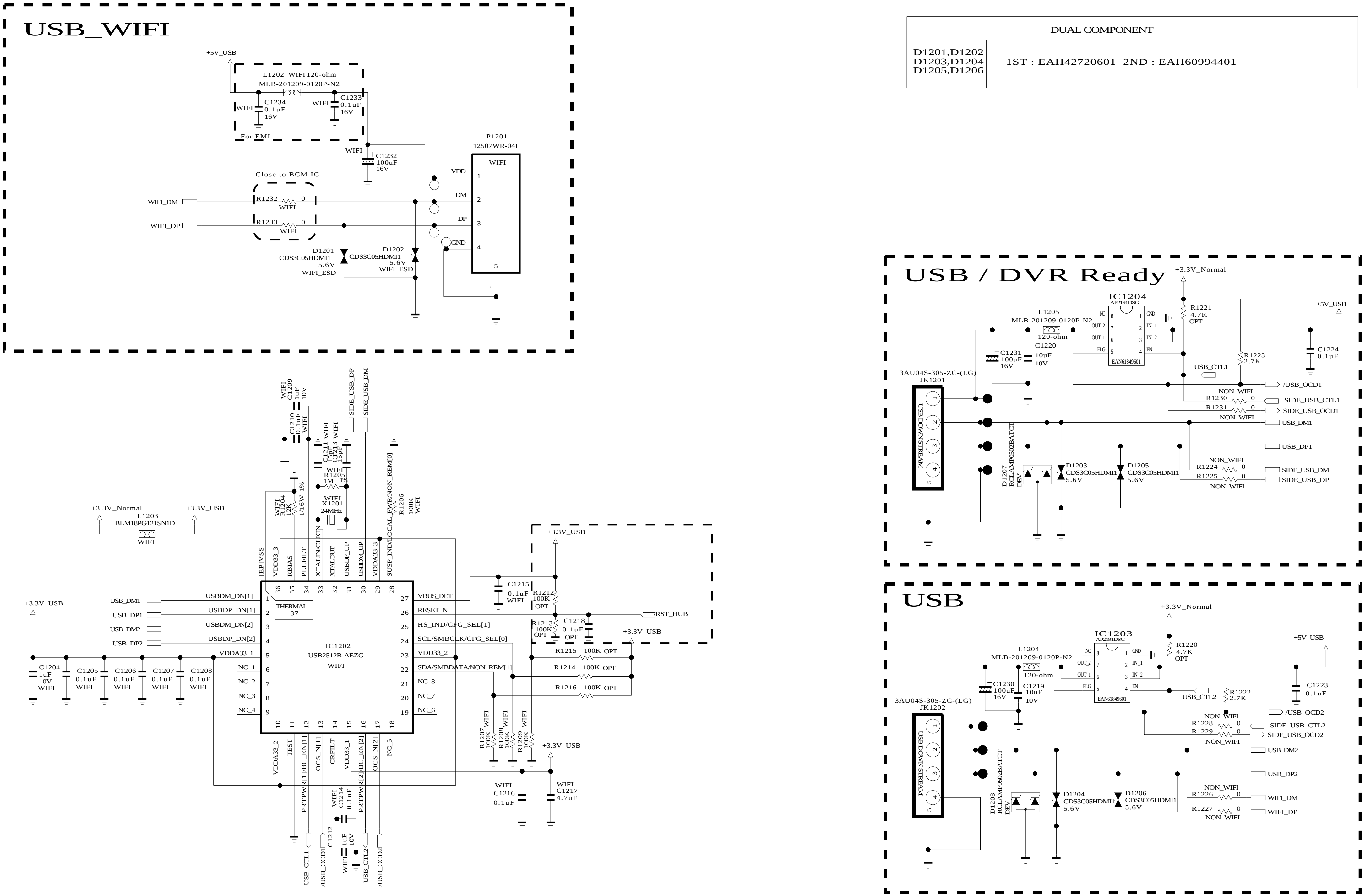
MODEL	BCM35230	DATE	
BLOCK	COMP/AV	SHEET	11 / 50



DUAL COMPONENT	
D1201,D1202 D1203,D1204 D1205,D1206	1ST : EAH42720601 2ND : EAH60994401

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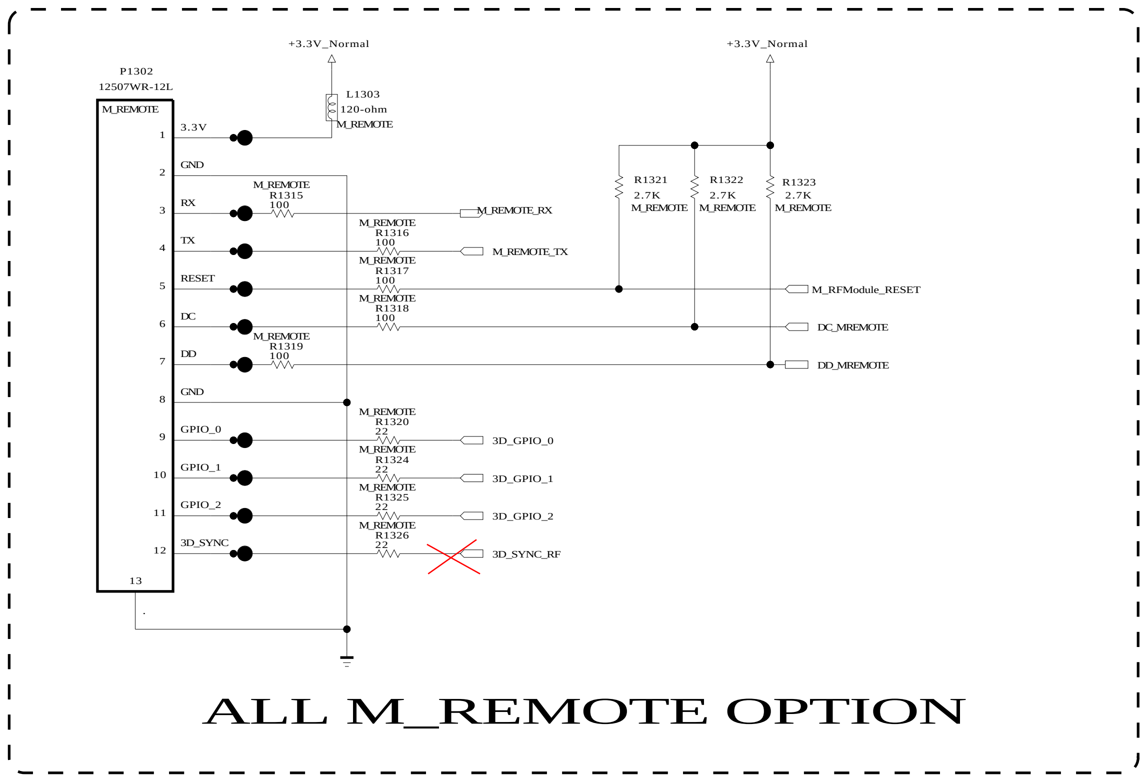
MODEL	BCM35230	DATE	
BLOCK	USB + WIFI	SHEET	12 /

TI solution M_REMOTE OPTION



THE ⚠ SYMBOL MARK OF THIS SCHEMETIC DIAGRAM INCORPORATES
SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION.
FILRE AND ELECTRICAL SHOCK HAZARDS, WHEN SERVICING IF IS
ESSENTIAL THAT ONLY MANUFATURES SPECFIED PARTS BE USED FOR
THE CRITICAL COMPONENTS IN THE ⚠ SYMBOL MARK OF THE SCHEMETIC.

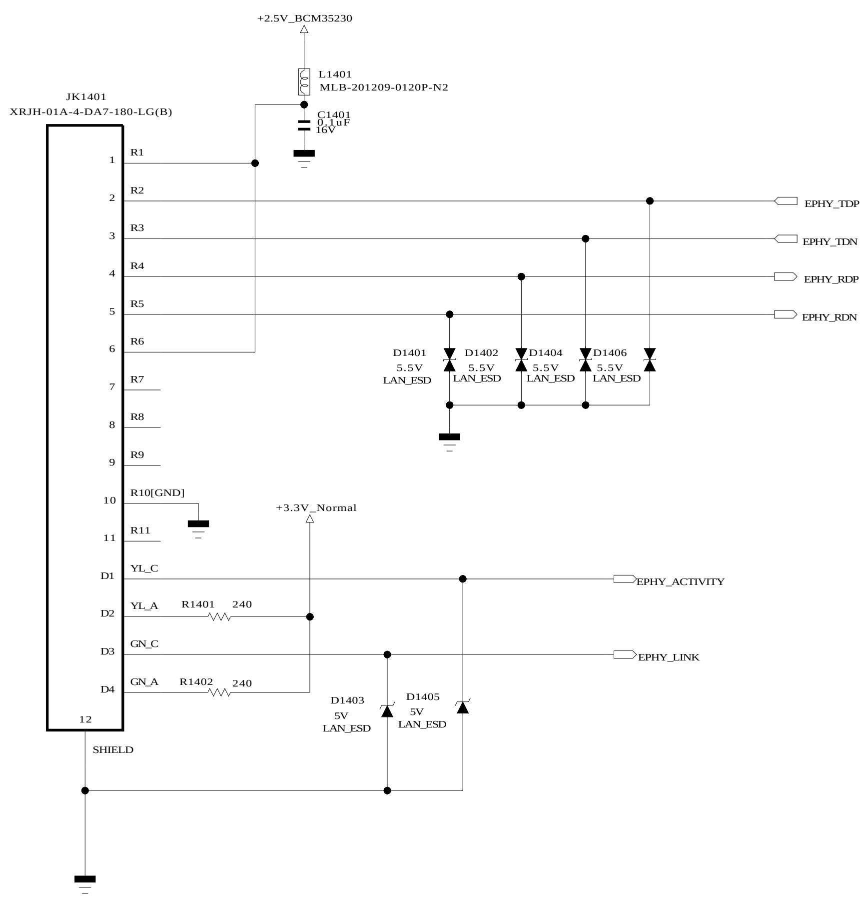
SECRET
LGElectronics

LG ELECTRONICS

MODEL	BCM35230	DATE	
BLOCK	M_REMOCON	SHEET	13 / 50

Ethernet Block

DUAL COMPONENT	
D1401,D1402 D1403,D1404 D1405,D1406	1ST : EAH42720601 2ND : EAH60994401



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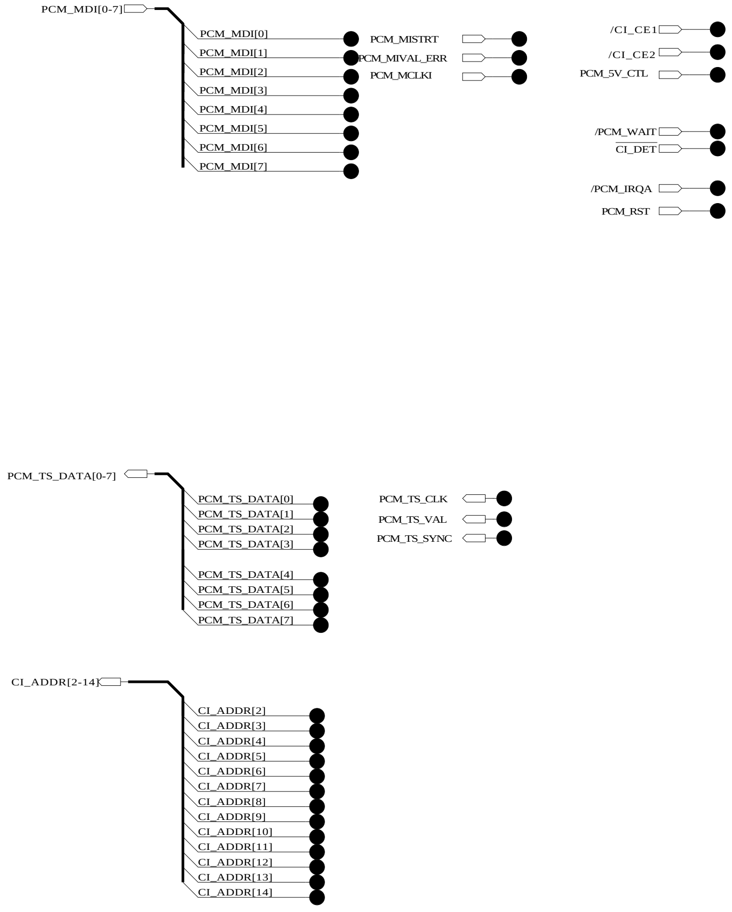
SECRET

LGElectronics

LG ELECTRONICS

MODEL	BCM35230	DATE	
BLOCK	ETHERNET	SHEET	14 / 50

NON CI



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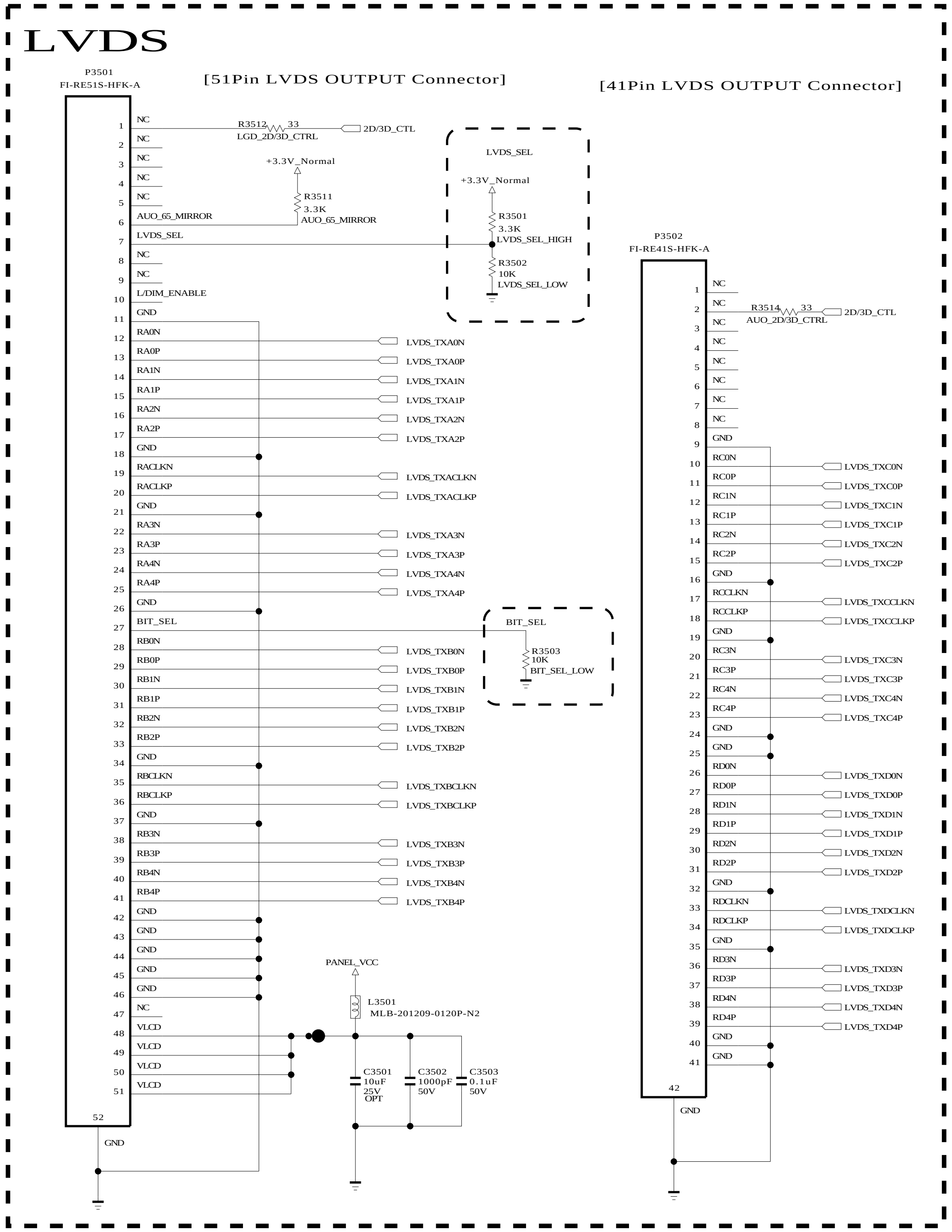
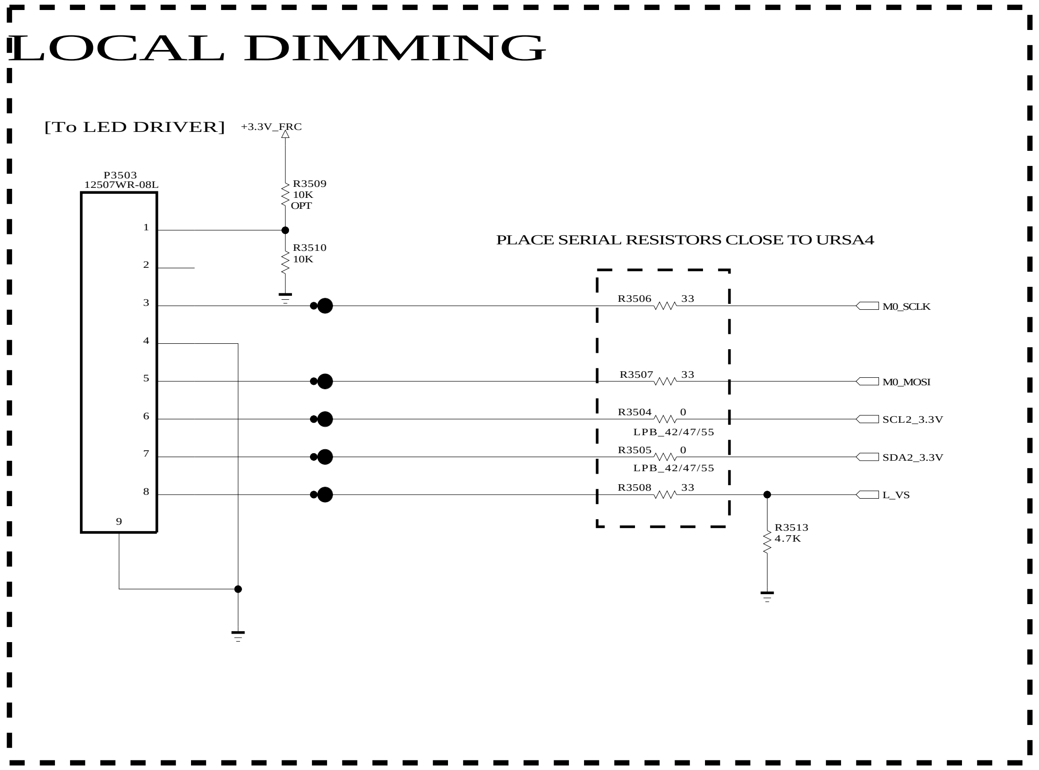
SECRET

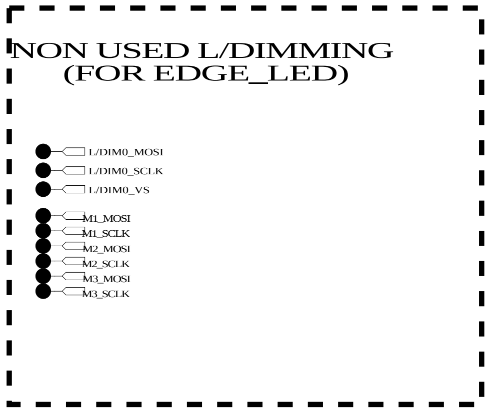
LGElectronics

LG ELECTRONICS

MODEL	BCM35230	DATE	
BLOCK	NON CI	SHEET	20 / 50







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SECRET

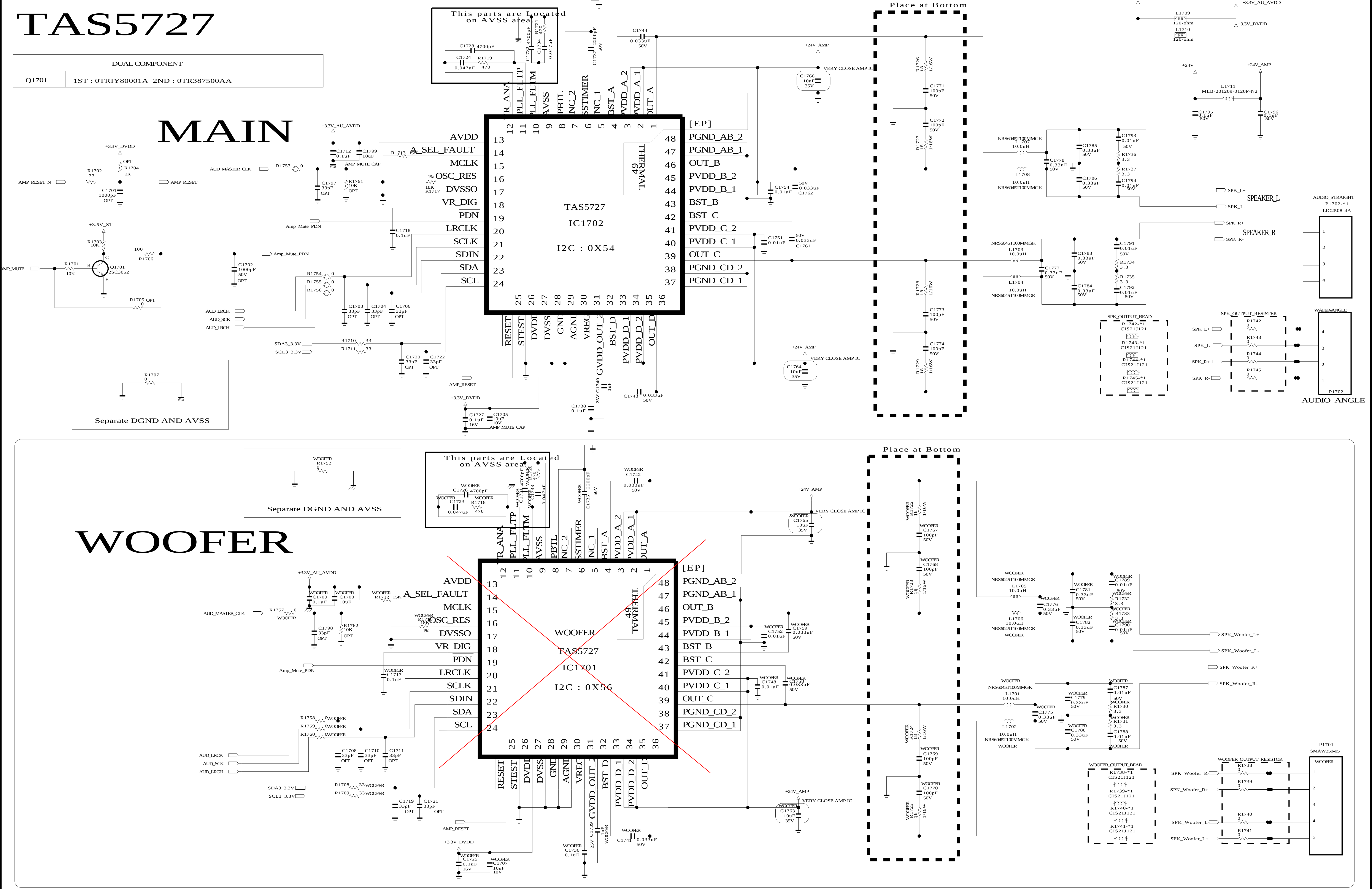
LGElectronics

LG ELECTRONICS

MODEL	BCM35230	DATE	2010. 10. 20
BLOCK	Interface block	SHEET	35 / 58

TAS5727

DUAL COMPONENT	
Q1701	1ST : 0TRIY80001A 2ND : 0TR387500AA



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SECRET

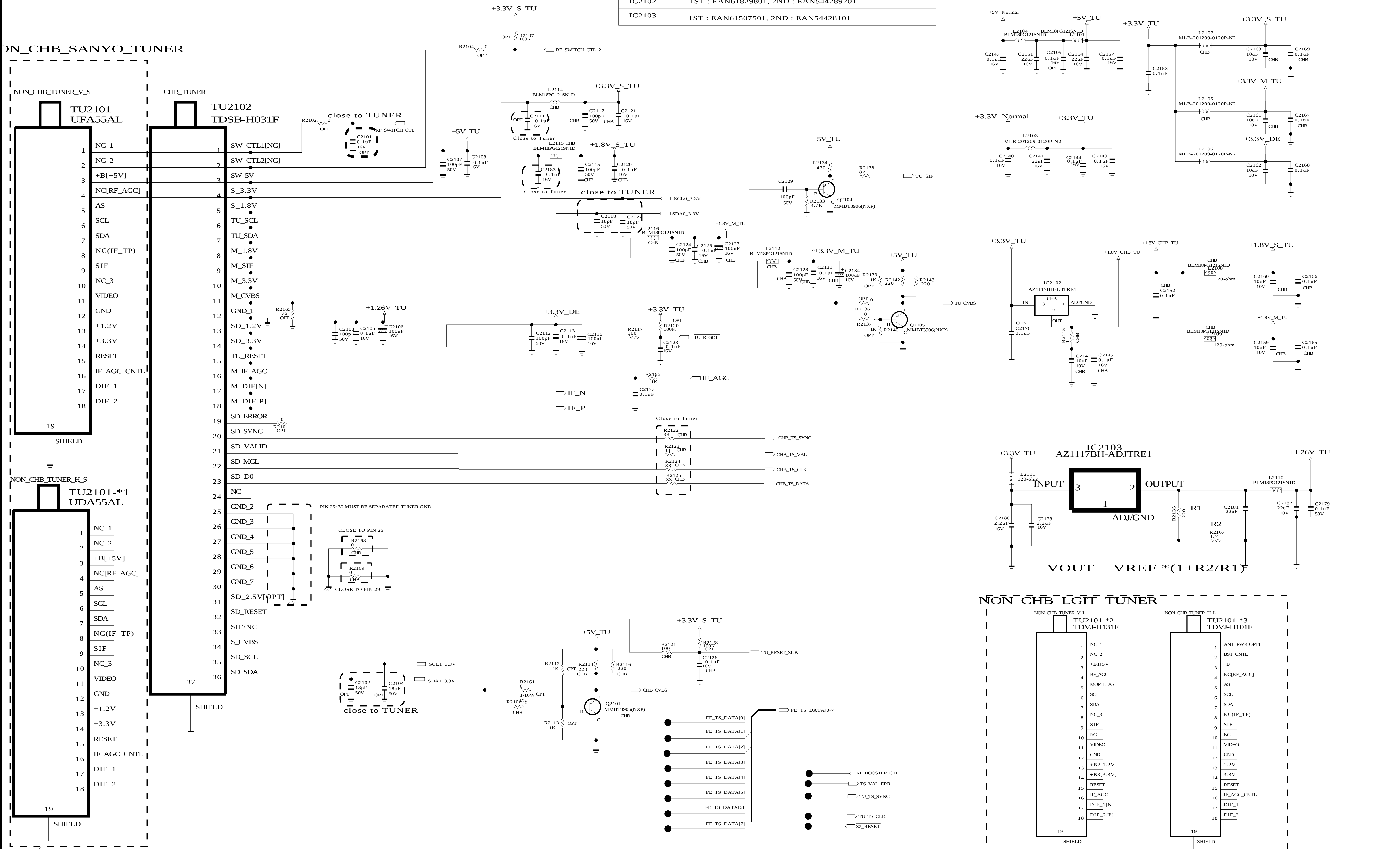
LGElectronics

LG ELECTRONICS

MODEL	BCM35230	DATE	
BLOCK	AUDIO[TI]	SHEET	17 / 50

NON_CHB & CHB TUNER (KOR/USA)

DUAL COMPONENT	
IC2102	1ST : EAN61829801, 2ND : EAN544289201
IC2103	1ST : EAN61507501, 2ND : EAN54428101



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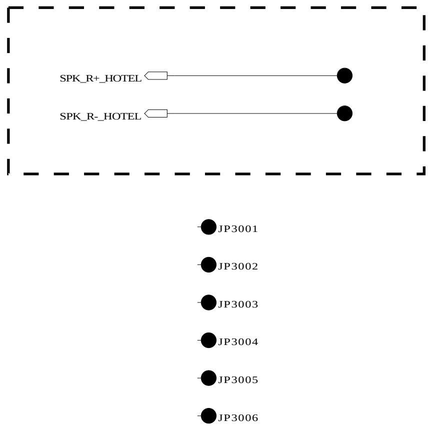
SECRET

LGElectronics

LG ELECTRONICS

MODEL	BCM35230	DATE	
BLOCK	ATSC_TUNER	SHEET	21 / 50

NON CHINA HOTEL

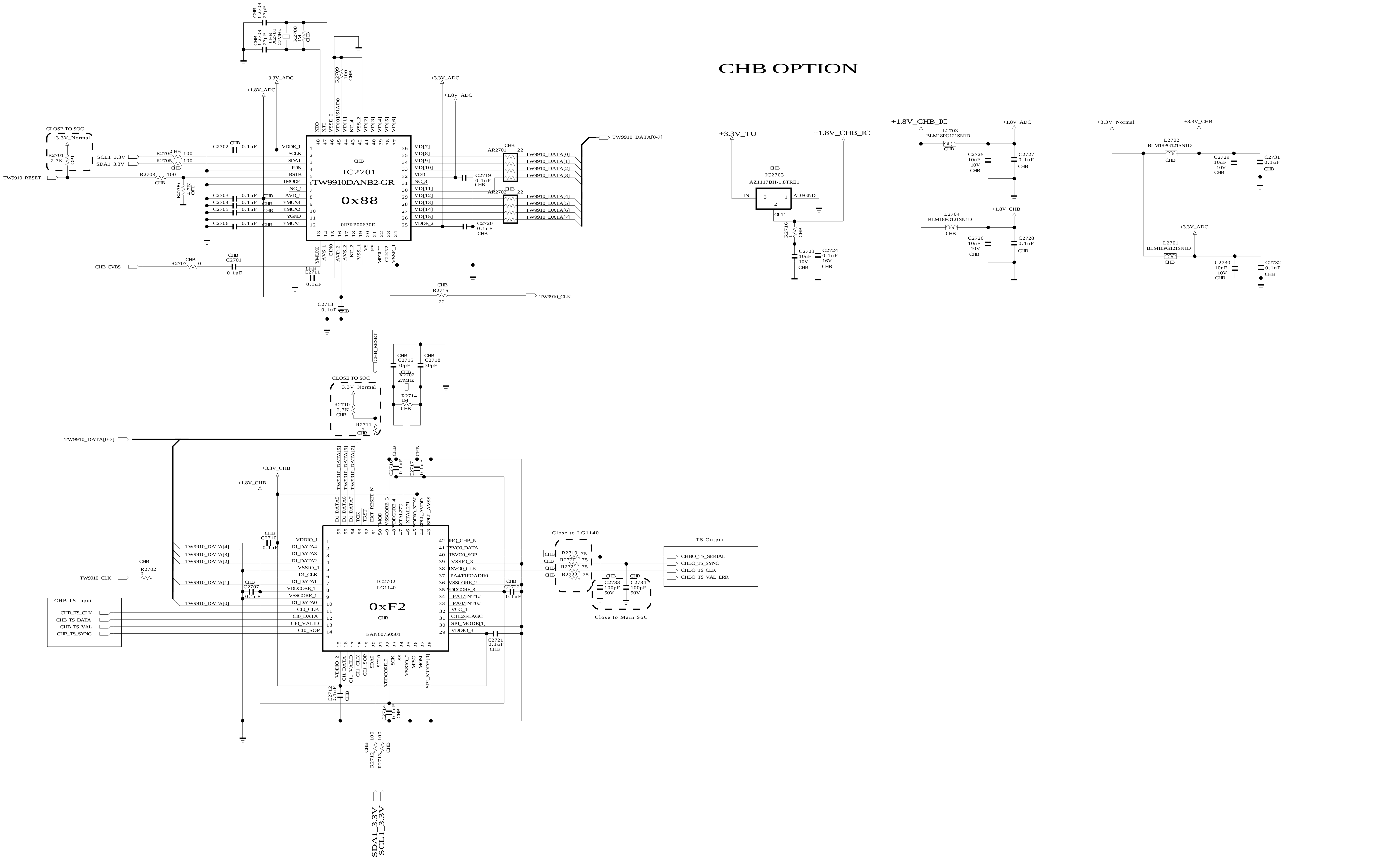


MODEL	BCM35230	DATE	
BLOCK	NON CHINA HOTEL	SHEET	30 / 50

CHANNEL BROWSER

DUAL COMPONENT	
IC2703	1ST : EAN61829801 2ND : EAN54428201

CHB OPTION



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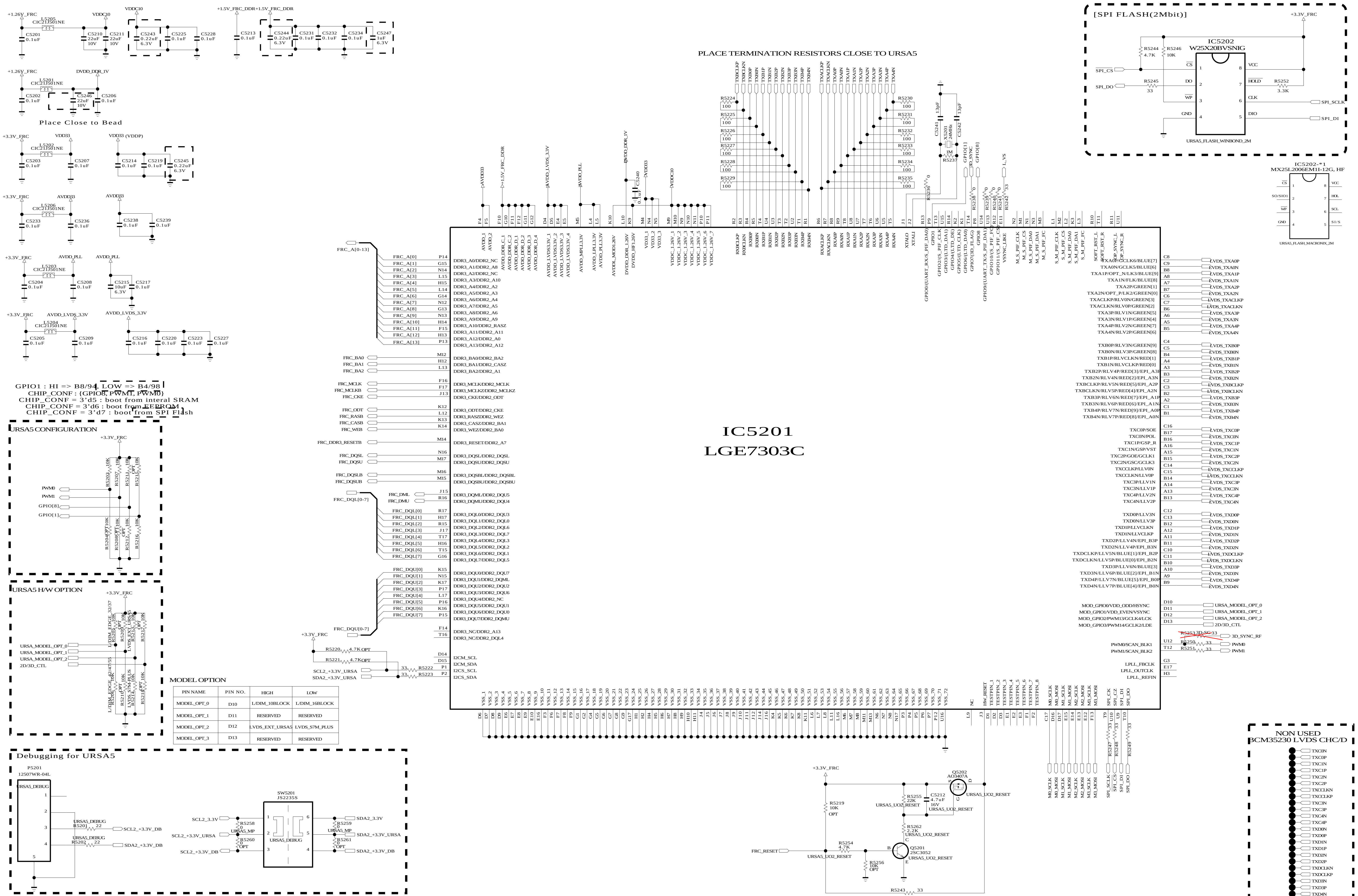
SECRET
LGElectronics

LG ELECTRONICS

MODEL	BCM35230	DATE	
BLOCK	CHB	SHEET	27 / 50



MODEL OPTION

PIN NAME	PIN NO.	HIGH	LOW
MODEL_OPT_0	D10	L/DIM_10BLOCK	L/DIM_16BLOCK
MODEL_OPT_1	D11	RESERVED	RESERVED
MODEL_OPT_2	D12	LVDS_EXT_URSA5	LVDS_S7M_PLUS
MODEL_OPT_3	D13	RESERVED	RESERVED

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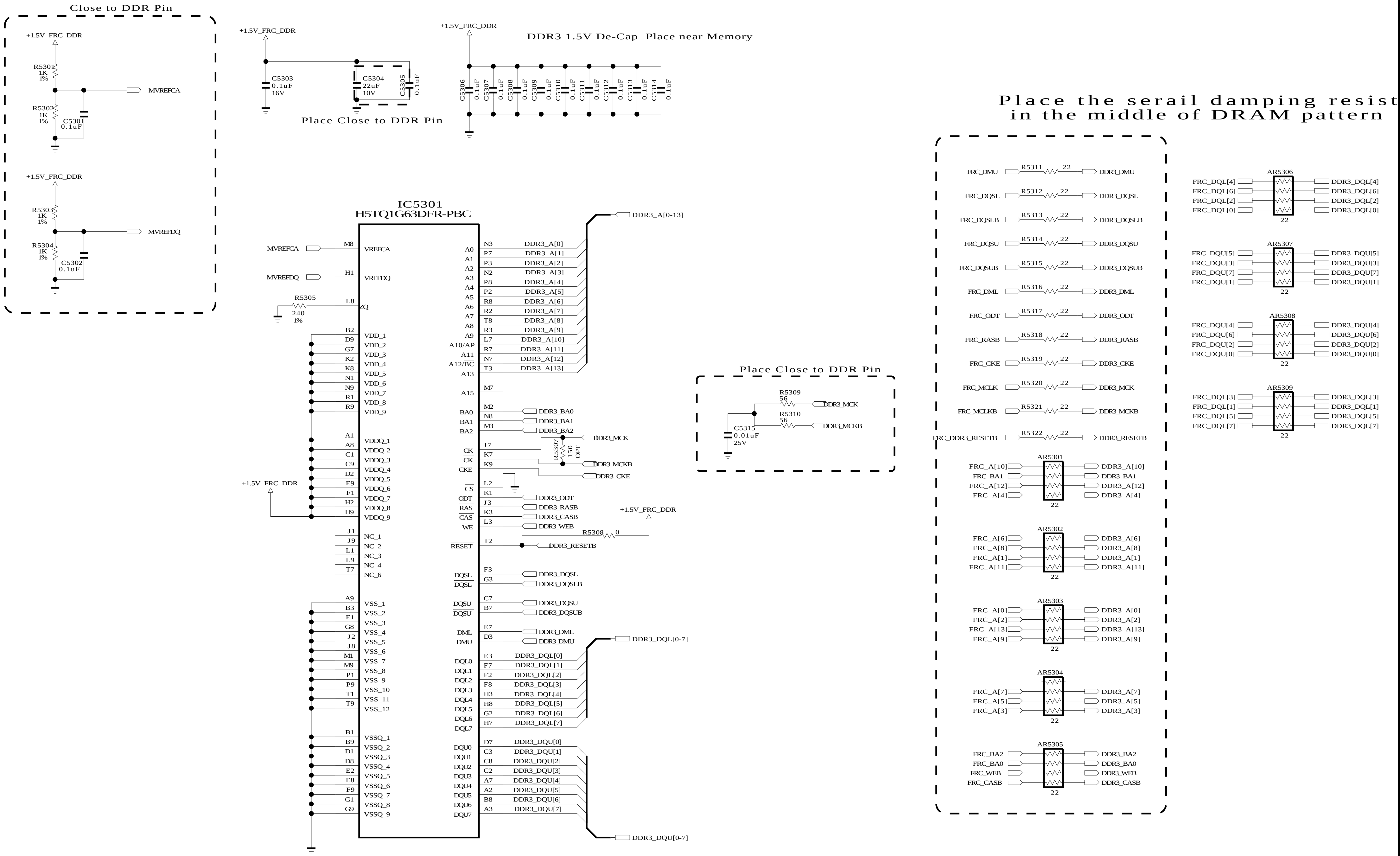
SECRET
LGElectronics

LG ELECTRONICS

MODEL	MStar URSA5	DATE	2010. 08.18
BLOCK	FRC block	SHEET	52 / 55



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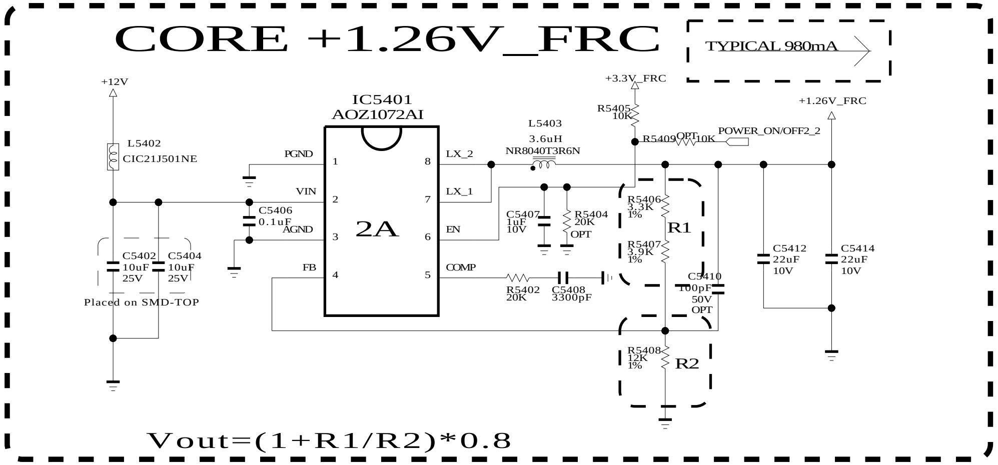
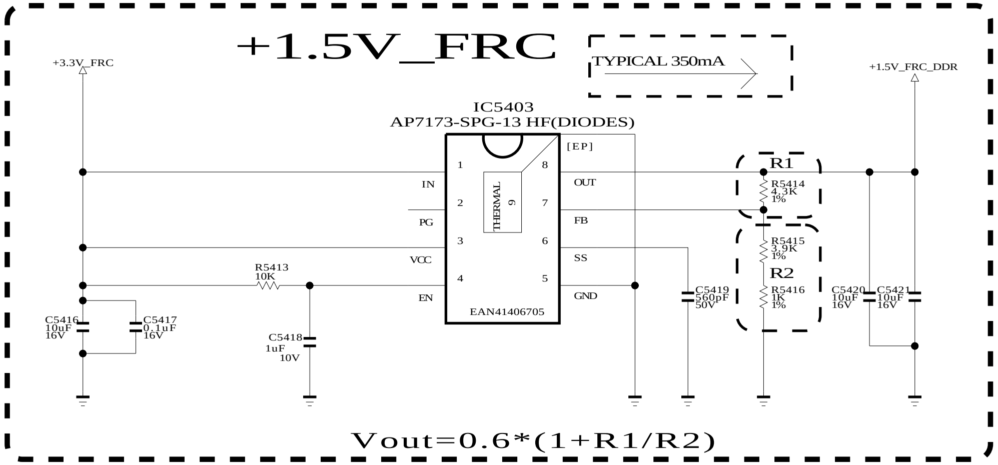
SECRET

LGElectronics

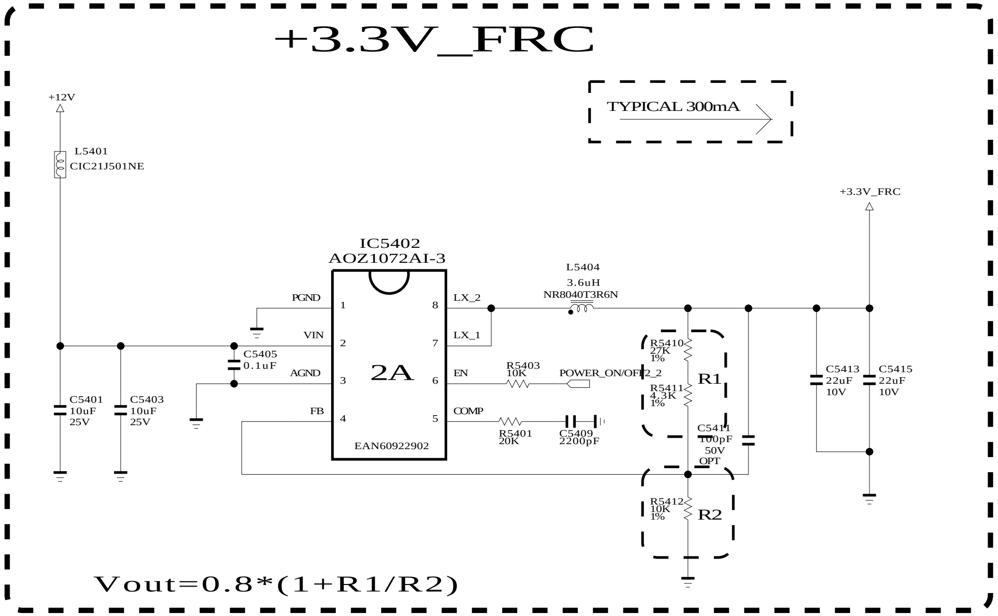
LG ELECTRONICS

MODEL	MStar URSA5	DATE	2010. 08.18
BLOCK	DDR3 4Mbit	SHEET	53 / 55





+1.5V of DDR&URSA5 uses same power line



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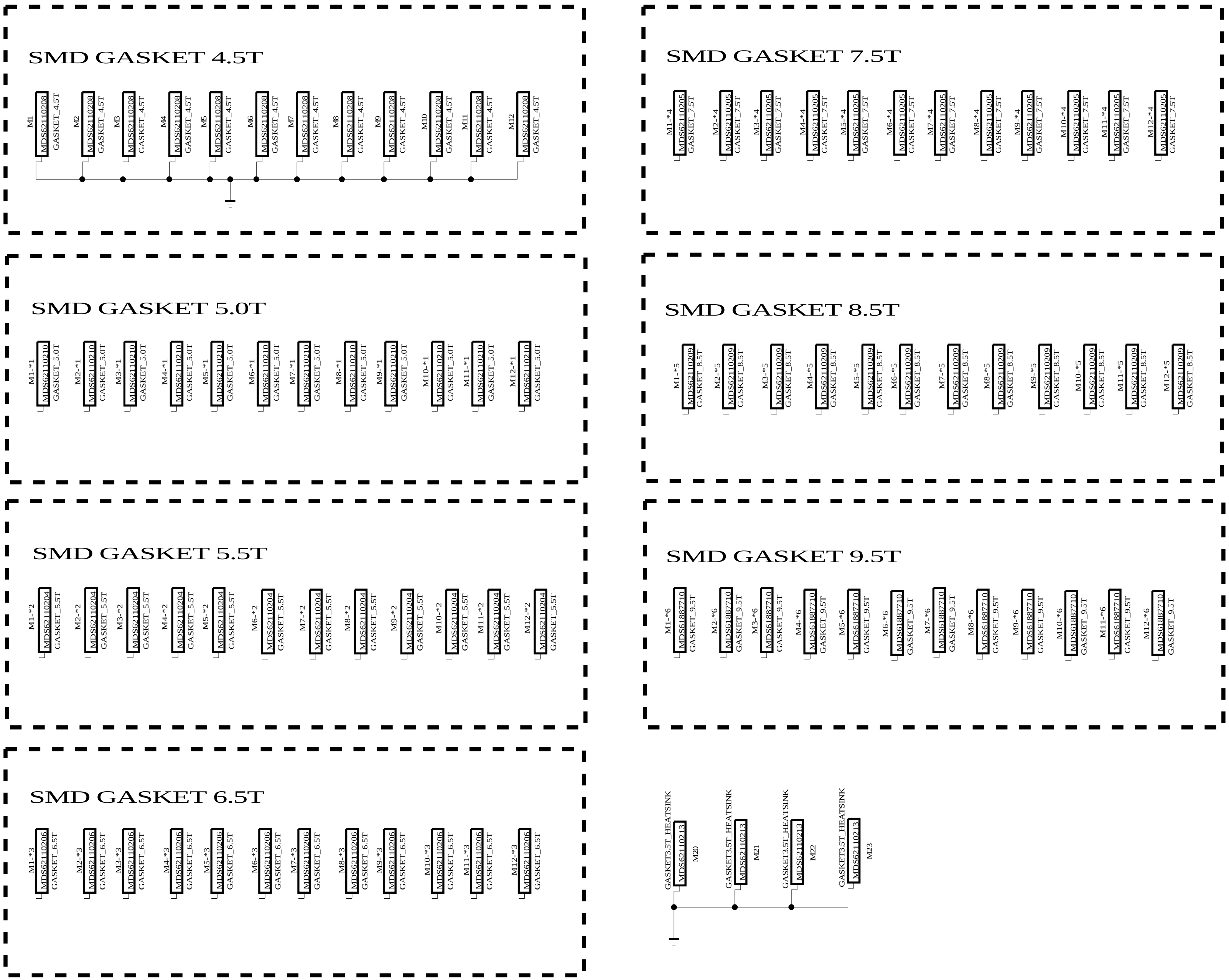
SECRET

LGElectronics

LG ELECTRONICS

MODEL	MStar URSA5	DATE	2010. 08.18
BLOCK	URSA5 Power Block	SHEET	54 / 55

SMD GASKET



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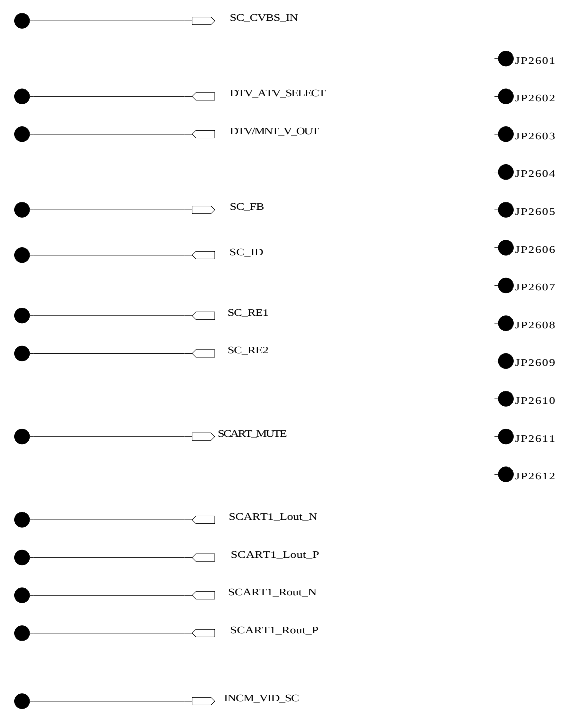
SECRET
LGElectronics

LG ELECTRONICS

MODEL	BCM35230	DATE	2010. 09. 18
BLOCK	SMD GASKET	SHEET	56 / 56



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SECRET

LGElectronics

LG ELECTRONICS

MODEL	BCM35230	DATE	
BLOCK	NON SCART	SHEET	26 / 50

Non_DVB-S2 LNB Part_Allegro