R530, R528

Bremen L/UL

SERVICE Manual

R530/R730



Contents

1. High performance notebook computer
   - Core2 Duo Processor/Core2 Quad Processor and DDR3 Memory applying high-performance computer (optional)
   - Wireless LAN (option)

2. Convenient functions
   - For Internal Camera (Option), convenient usage of filming and taking pictures
   - Convenient connection with TV as HDMI port is provided

3. consideration of practical usage
   - Features a variety of keyboard hotkeys
   - Replacing the multi-card slot (optional)
   - This exceptional design, luxurious texture

If there are the contents not included in this book, please refer to K-zone service manual

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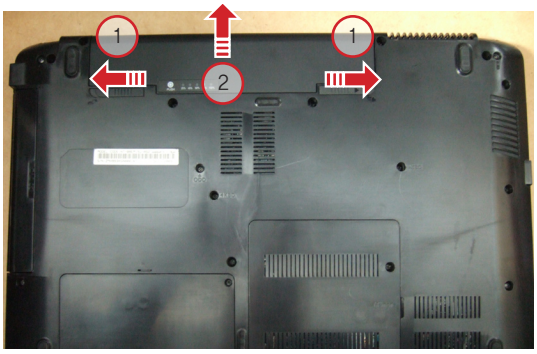
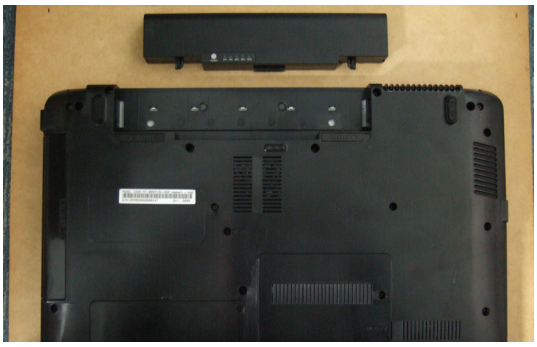
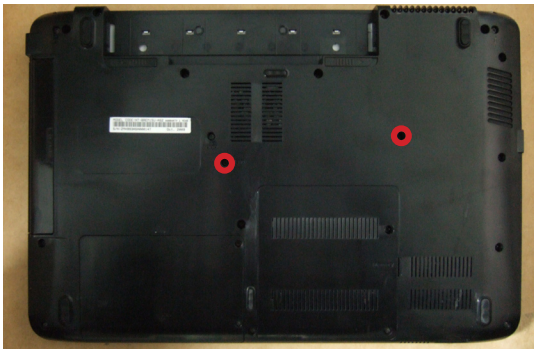
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3. Disassembly and Reassembly

3-1. R530/R730 Disassembly and assembly

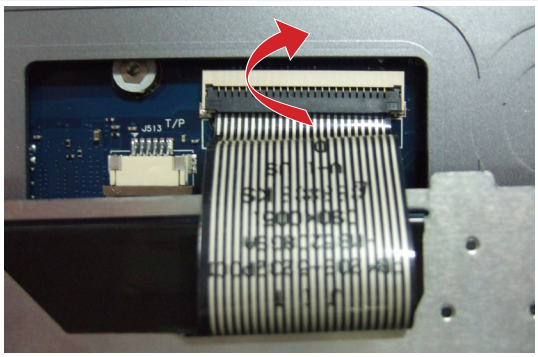
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Part	Picture	Description
Main System		1. Before disassembling the system, the AC adapter and the battery have to be separated.
		2. As shown in picture 1, Slide the KNOB to the end closely into the arrow direction, then push the battery up as shown in picture 2.
		3. Conditions after removing the battery
		4. Remove the screws for fixing the keyboard. (M2 x L8, Black: 2 EA)

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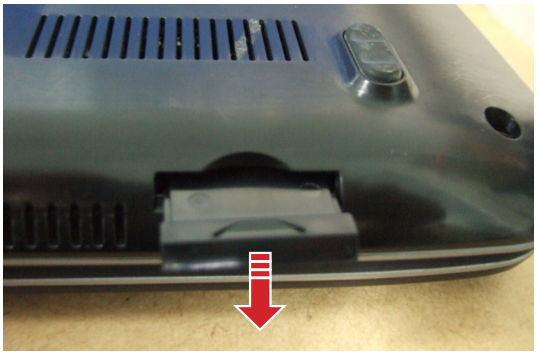
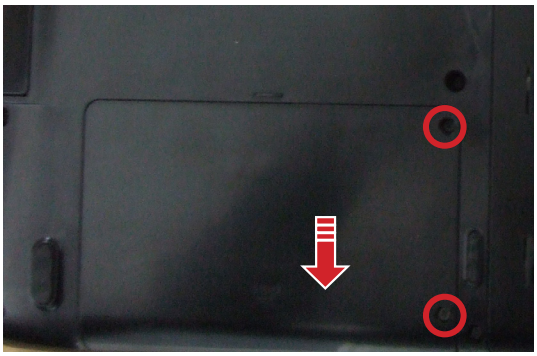
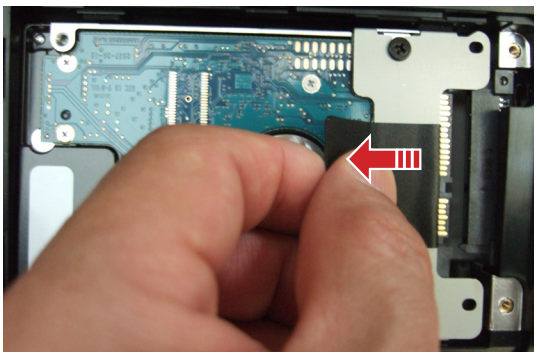
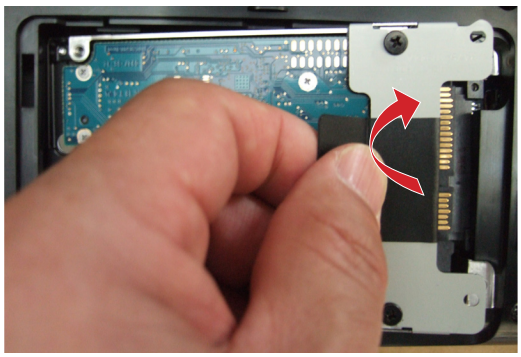
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Part	Picture	Description
Main System		5. Push the Hook up inwards by using a pin-set as shown in the picture, and then lift the key board up. [Notice] When you push the hook up, you have to be careful not to scratch on TOP
		6. As shown in the picture, lift the top side of keyboard up and then disassemble keyboard.
	 	7. Remove the keyboard cable. 1). With the keyboard upside down, unlock the Keyboard connector and then remove the keyboard FPC cable. 2) Conditions after removing the keyboard.

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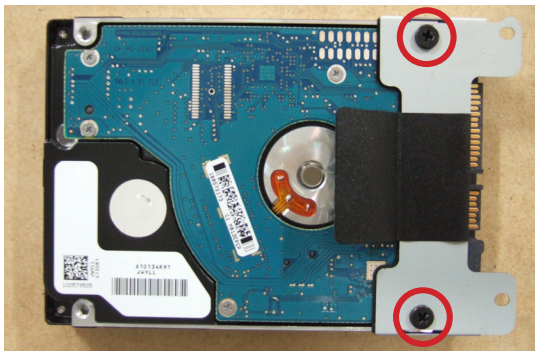
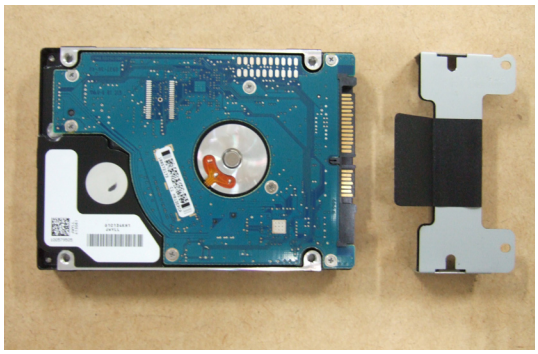
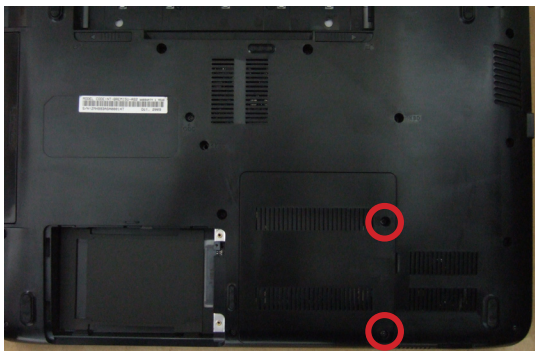
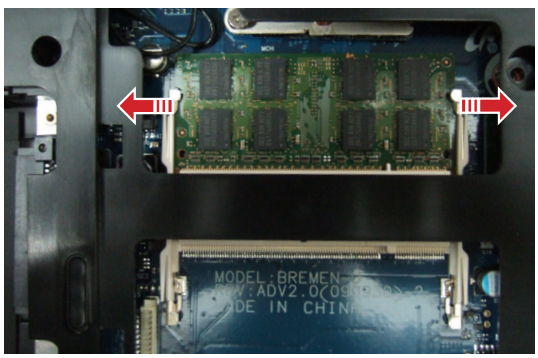
3. Disassembly and Reassembly

Part	Picture	Description
Main System		8. Remove the memory card.
		9. Remove the HDD. 1) After removing the screws (2EA) for fixing HDD and remove the cover to the arrow direction. (M2 x L4, Black, 2EA)
		2). With holding the insulator, separate the HDD from the connector by pushing it to the arrow direction. (M2 x L8, Black: 2ea)
		3) Remove the HDD by lifting the HDD insulator up. [Notice] When you lift the HDD up, you shall not enforce excessive strength.

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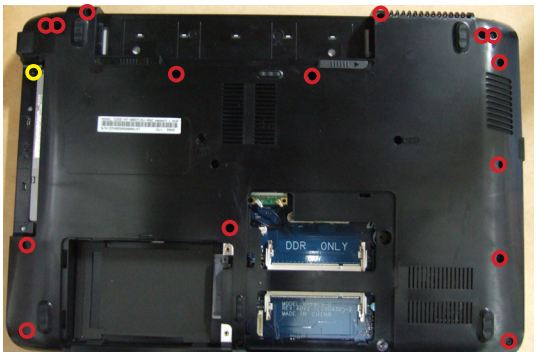
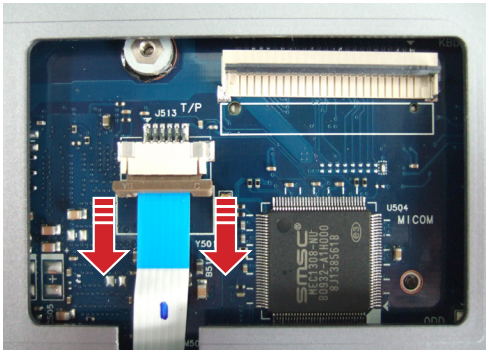
3. Disassembly and Reassembly

Part	Picture	Description
Main System	 	4) Remove the screws (2 EA) for fixing the HDD and separate the HDD from the bracket.
		10. Remove the memory door. 1) Remove the screw (2EA) for fixing memory door. (M2 x L4, Black: 2ea)
		2) Remove the memory by pushing the fixed-tap out

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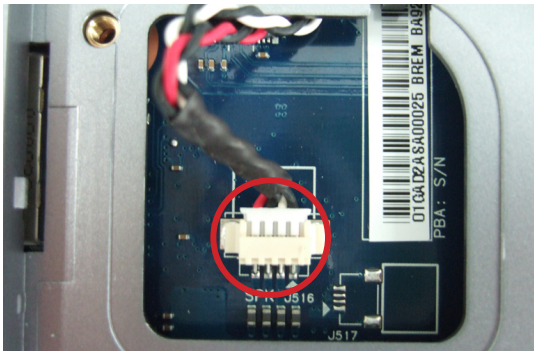
3. Disassembly and Reassembly

Part	Picture	Description
Main System		11 Remove the ODD. 1) As shown in the picture, remove the screw for fixing ODD. (M2 x L8, Black:1 EA) 2) Separate the ODD from the bottom cover by pushing it to the arrow direction.
		12. Remove the WLAN cable from the WLAN board.
		13. Remove the bottom screws (M2 x L8, Black: 14 EA/ L5 x 2EA, L3 x 1 EA Black)
		14. Remove the T/P (Touch Pad). 1) Place PC set upside down. 2) Unlock the connector to arrow direction as shown in the picture and then remove the Touch Pad cable.

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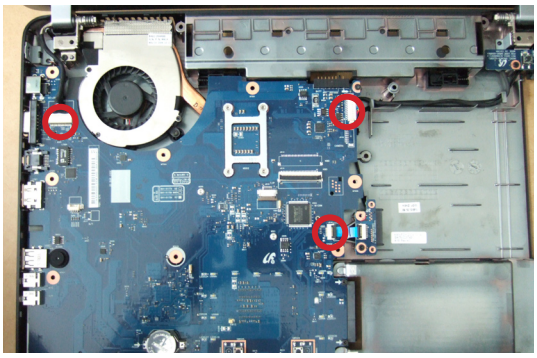
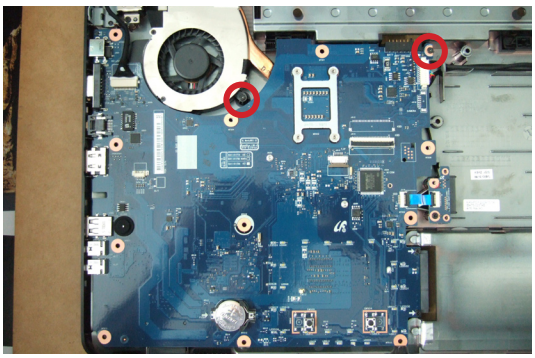
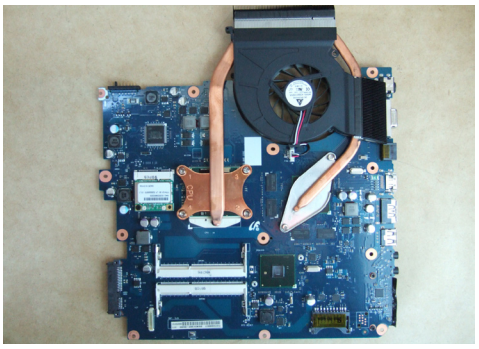
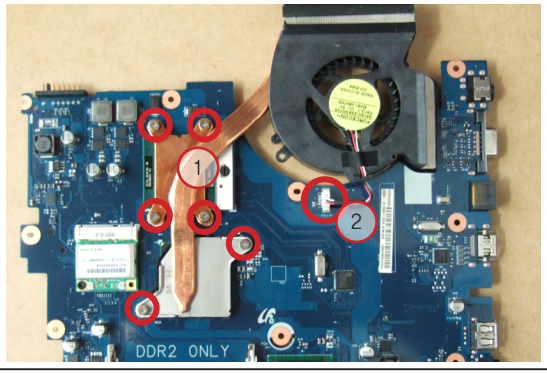
3. Disassembly and Reassembly

Part	Picture	Description
Main System		15. Remove the speaker cable.
		16. Condition after removing the T/P and speaker cable.
		17. As shown in the picture, separate Front-cover by widening the gap between the Front cover and the Bottom cover. (Be careful not to make scratch in the gap using a wooden-driver.)
		18. Conditions after removing the Front Cover.

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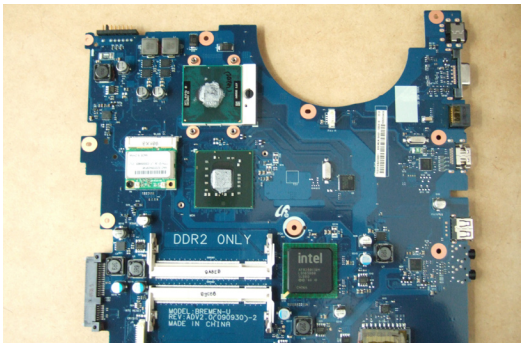
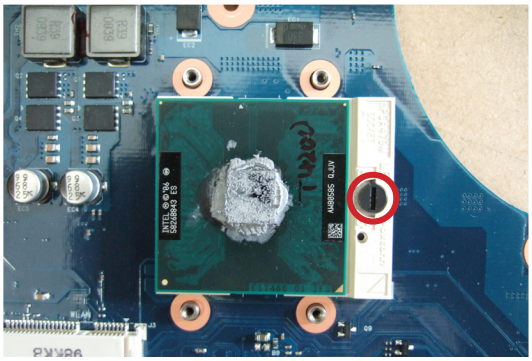
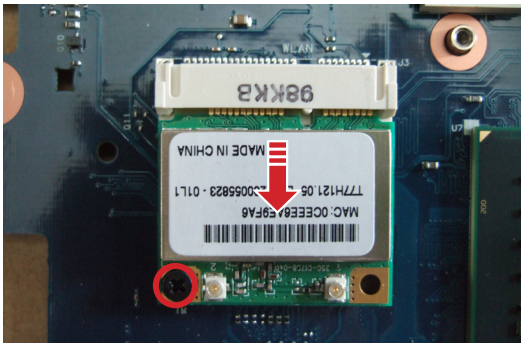
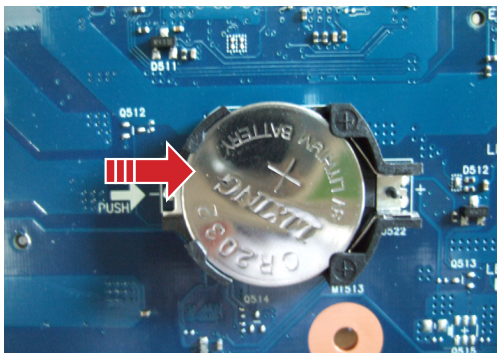
3. Disassembly and Reassembly

Part	Picture	Description
Main System		19. Remove 3 cables (LCD, ODD and USB board).
		20. Remove the Main board. 1) Remove the screws which fix the Main board and then separate Main board from Bottom. (M2 x L4: 2 EA)
		21. Conditions of Main board which is separated.
		22. Remove the plate for protecting against heat of CPU and Graphic chip. 1) Remove the screws. (6 EA) 2) Remove the cooling fan connector. 3) Remove the plate by lifting it up.

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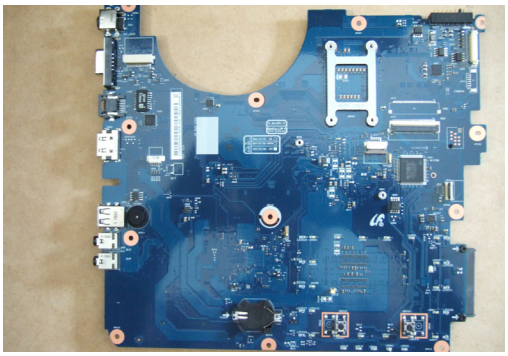
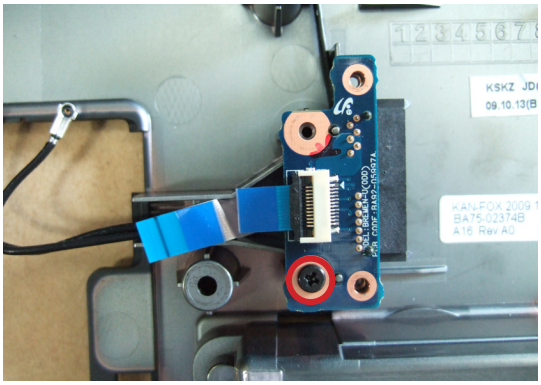
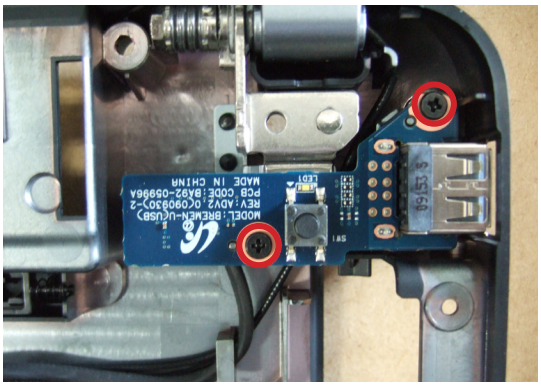
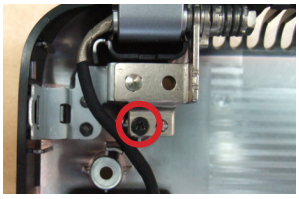
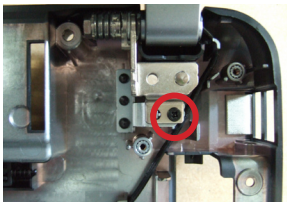
3. Disassembly and Reassembly

Part	Picture	Description
Main System		23. Conditions after removing the cooling fan
		24. Remove the CPU. 1) Lift CPU up after rotating the screw for fixing CPU to counterclockwise fully.
		25. Remove the WLAN board. 1) Remove the screw (1EA) for fixing the WLAN Board. (M2 X L3 1ea, Black) 2) Remove the WLAN Board from the connector.
		26. Remove the RTC. 1) Place Main board upside down. 2) With pushing and lifting up the RTC to arrow direction by using finger, remove the RTC from the socket of main board. [Notice] Carefully remove it because RTC socket is fixed with plastic material.

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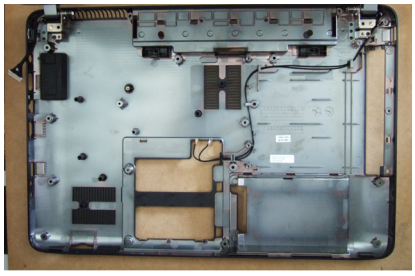
3. Disassembly and Reassembly

Part	Picture	Description
Main System		27. Conditions after removing the RTC.
Front Cover Ass'y		28. Remove the ODD sub board. 1) Remove the screw (1 EA) for fixing the ODD sub board as shown in the picture. (M2 X L4, 1ea) 2) Remove the ODD sub board
		29. Remove the USB sub board. 1) Remove the screw (2 EA) for fixing the USB sub board as shown in the picture. (M2 X L4, 2ea) 2) After removing the USB connector separate the USB board.
LCD Ass'y (15")	 	30. Remove the LCD module and Front Cover. 1) Remove the screws (2 EA) for fixing the both sides of Hinge as shown in the picture.

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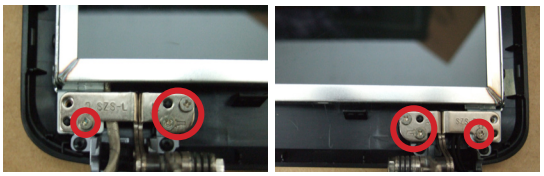
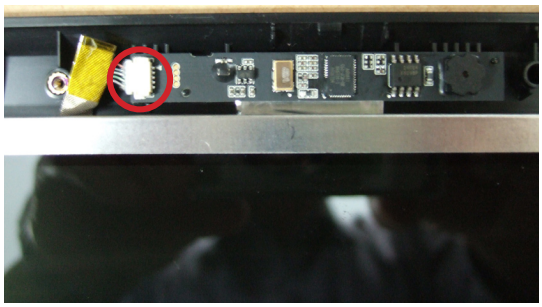
3. Disassembly and Reassembly

Part	Picture	Description
LCD Ass'y (15")	 	2) Separate the LCD module and Bottom Cover. [Notice] Carefully remove it because WLAN cable is fixed with the gutter of bottom cover.
		31. After removing the Rubber-LCD cap as shown in the picture, remove the screws (M2 x L6: 6EA) [Notice] Be careful not to make scratch on the LCD Panel when you removing Rubber-LCD Cap.
		32. Remove the LCD cover. 1) Insert your hand into the gap of the LCD back and LCD front and then separate first, the upper part of the LCD front and second, both side of the LCD front

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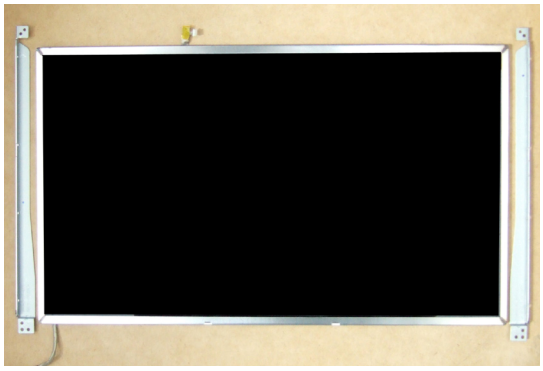
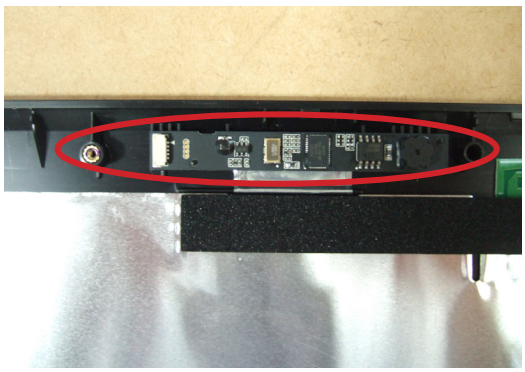
3. Disassembly and Reassembly

Part	Picture	Description
LCD Ass'y (15")		2) After lift Hinge cover part up with your fingers and then separate the bottom side of the LCD.
		3) Conditions after removing the LCD Cover.
		33. Remove the LCD panel. 1) As shown in the picture, remove the screw (6EA) which fixes Hinge of the both sides and LCD panel at the lower part and then remove the Hinges.
		2) Disassemble the connector from the camera module as shown in the picture.

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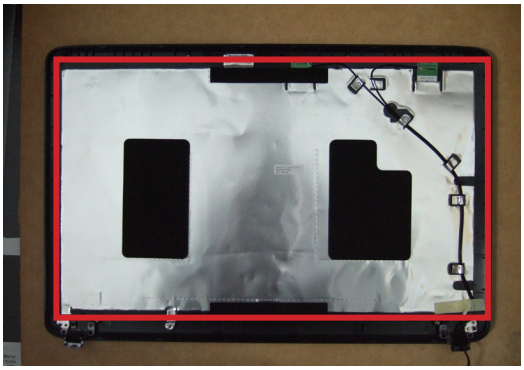
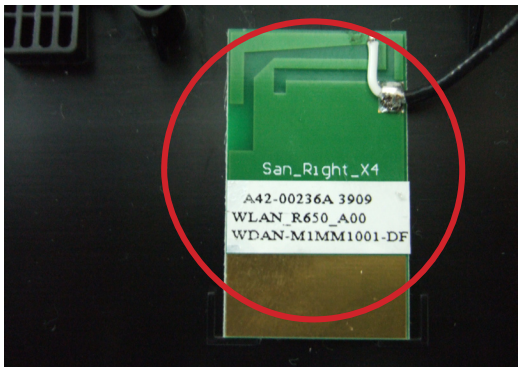
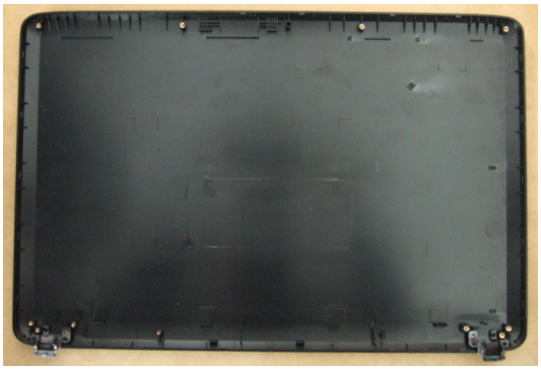
3. Disassembly and Reassembly

Part	Picture	Description
LCD Ass'y (15")		3) Conditions after removing the LCD panel.
		34. Remove the screws (6EA) for fixing LCD panel and bracket of both sides and remove the LCD brackets as shown in the picture.
		35. With the LCD panel upside down, remove the LCD cable.
		36. Remove the camera module. 1). Remove the camera module as shown in the picture. [Notice] Carefully remove it because camera module is fixed with the adhesive tape.

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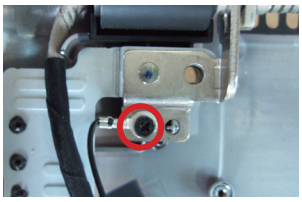
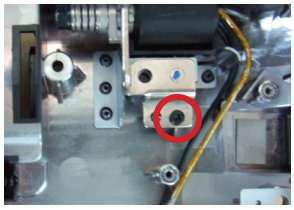
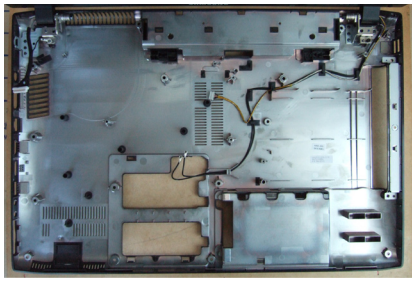
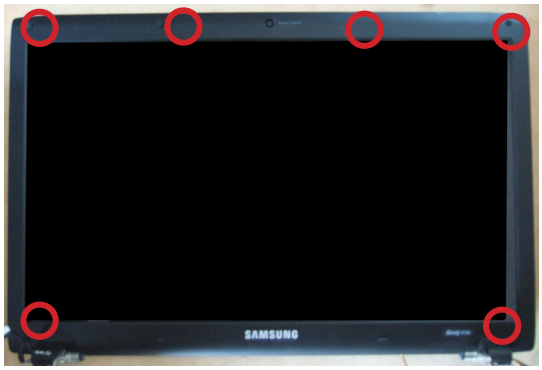
3. Disassembly and Reassembly

Part	Picture	Description
LCD Ass'y (15")		37. Remove the LCD pad for preventing shock of LCD panel and shield pad for preventing electromagnetic interference fixed with adhesive on LCD bottom cover. 1) Remove the main and aux antenna cable from the LCD Pad. 2) Remove the LCD pad and shield pad.
	 	38. Remove the main and aux antenna from the LCD bottom cover. [Notice] Carefully remove it because WLAN antenna is fixed with the adhesive tape.
		39. Conditions of the Bottom Cover which is separated completely

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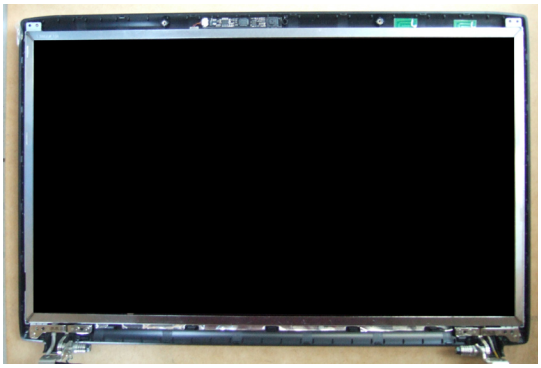
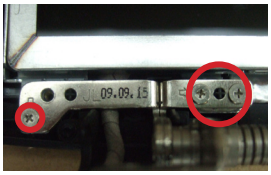
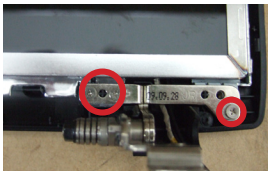
3. Disassembly and Reassembly

Part	Picture	Description
LCD Ass'y (17")	 	30. Remove the LCD module and Front Cover. 1) Remove the screws (2 EA) for fixing the both sides of Hinge as shown in the picture.
	 	2) Separate the LCD module and Bottom Cover. [Notice] Carefully remove it because WLAN cable is fixed with the gutter of bottom cover.
		31. After removing the Rubber-LCD cap as shown in the picture, remove the screws (M2 x L6: 6EA) [Notice] Be careful not to make scratch on the LCD Panel when you removing Rubber-LCD Cap.

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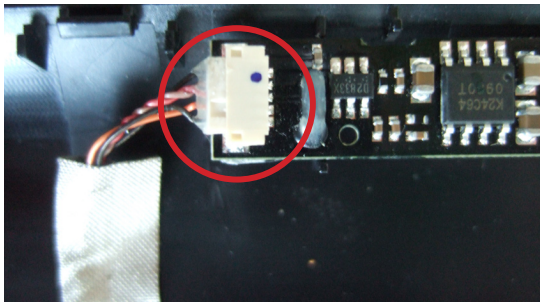
3. Disassembly and Reassembly

Part	Picture	Description
LCD Ass'y (17")		32. Remove the LCD cover. 1) Insert your hand into the gap of the LCD back and LCD front and then separate first, the upper part of the LCD front and second, both side of the LCD front
		2) After lift Hinge cover part up with your fingers and then separate the bottom side of the LCD.
		3) Conditions after removing the LCD Cover.
	 	33. Remove the LCD panel. 1) As shown in the picture, remove the screw (6EA) which fixes Hinge of the both sides and LCD panel at the lower part and then remove the Hinges.

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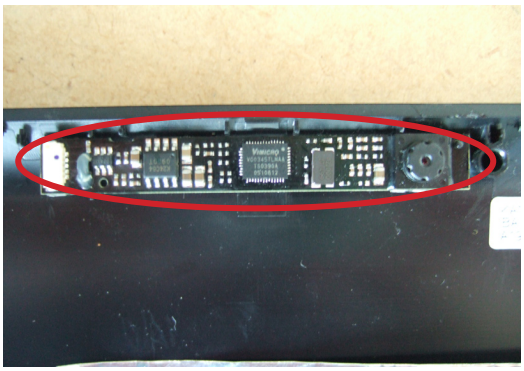
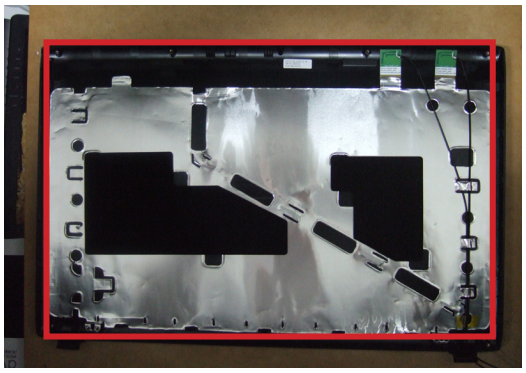
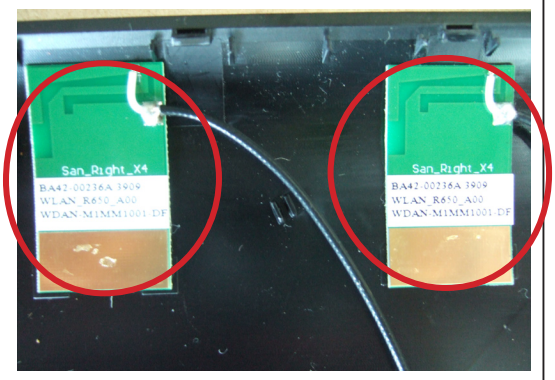
3. Disassembly and Reassembly

Part	Picture	Description
LCD Ass'y (17")		2) Disassemble the connector from the camera module as shown in the picture.
		3) Conditions after removing the LCD panel.
		34. Remove the screws (6EA) for fixing LCD panel and bracket of both sides and remove the LCD brackets as shown in the picture.
		35. With the LCD panel upside down, remove the LCD cable.

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3. Disassembly and Reassembly

Part	Picture	Description
LCD Ass'y (17")		36. Remove the camera module. 1). Remove the camera module as shown in the picture. [Notice] Carefully remove it because camera module is fixed with the adhesive tape.
		37. Remove the LCD pad for preventing shock of LCD panel and shield pad for preventing electromagnetic interference fixed with adhesive on LCD bottom cover. 1) Remove the main and aux antenna cable from the LCD Pad. 2) Remove the LCD pad and shield pad.
		38. Remove the main and aux antenna from the LCD bottom cover. [Notice] Carefully remove it because WLAN antenna is fixed with the adhesive tape.
		39. Conditions of the Bottom Cover which is separated completely

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3. Disassembly and Reassembly

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6. Material List

6-1. 15″ Material List

Level	Code	Assembled	EA	Description	Spec.	Service
..1	0203-001869	KAPTON_MICOM	0.05	TAPE-KAPTONE	K-CJ01,T0.06,W10,L33000mm,YELLOW,ROLL TYPE	
..1	0203-001869	KAPTON_RTC BAT	0.05	TAPE-KAPTONE	K-CJ01,T0.06,W10,L33000mm,YELLOW,ROLL TYPE	
..1	4301-000108	RTC BAT	1	BATTERY-LI	3V,220mAH,CR2032,20x3.2mm,NO,3.3g,Button Cell	
..1	4301-001070	RTC BAT	1	BATTERY-LI	3V,210mAH,CR2032,20x3.2mm,NO,2.9g,Button Cell	
..1	6001-001570	HDD SCREW	2	SCREW-MACHINE	CH,+,M2,L4,ZPC(BLK),SWRCH18A,FP,NYLOCK,T1.0	
..1	6001-001570	ODD SCREW	2	SCREW-MACHINE	CH,+,M2,L4,ZPC(BLK),SWRCH18A,FP,NYLOCK,T1.0	
..1	6001-001570	WLAN+MAIN PCB	1	SCREW-MACHINE	CH,+,M2,L4,ZPC(BLK),SWRCH18A,FP,NYLOCK,T1.0	
..1	BA41-01201A	ODD FFC	1	FFC-ODD	BREMEN,1.0,FILM,12PIN,T0.3,L61XW6.5MM,ODD FFC,-,-	
..1	BA59-02572A	WLAN-802.11BGN	1	MODULE-WLAN	AR5B95,WLL6160-D99(ROHS),-,1x1,Half MiniCard Standard,-,-,-,W308*L26.88*H4.75mm,-,Atheros 802.11bgn compliant,-	
..1	BA68-40005L	PBA SN LABEL	1	LABEL-BARCODE	NOTE PC,-,ART PAPER,-,W40.0,L6.0MM,-,-,-,-,-,-,-	
..1	BA75-01937A	M502	1	UNIT-BRACKET_CPU	PALAU,SEC,SPCC,W50*L40*T1.5mm,-,-,-,PBA	
..1	BA81-04279A	RUBBER-SUPPOR	1	RUBBER-SUPPORT	TORINO2-VE,DOMESTIC,SILICON RUBBER,W5*L5*H1.4mm,BLACK,RUBBER-SUPPORT,-	
..1	BA81-04683A	BRAKET-VGA	1	BRACKET-VGA	LYON,SUS 0.15T,W28.1*L11.0mm,NTR,-,-,-	
..1	BA81-07333A	RUBBER MIC	1	RUBBER-MIC	BONN-L,TPU,D13.1*H3.7mm,BLACK,-,-,-	
..1	BA81-08240A	INSULATOR_HDMI	1	INSULATOR-HDMI	BONN,PC,W12*L6*T0.2mm,BLACK,-,-	
..1	BA92-06119B	SMT	1	ASSY MOTHER BD-SMT	BREMEN-UL,PGA,DDR2,-,-,-,SMT,PV/CONFIG1	
....2	BA92-06119C	SMT_U	1	ASSY MOTHER BD-SMT_U	BREMEN-UL,PGA,DDR2,-,NT,-,SMT_U,PV/CONFIG1	
.....3	0401-000132	D500	1	DIODE-SWITCHING	BAV99,70V,50mA,SOT-23,TP	
.....3	0401-000132	D501	1	DIODE-SWITCHING	BAV99,70V,50mA,SOT-23,TP	
.....3	0401-000132	D503	1	DIODE-SWITCHING	BAV99,70V,50mA,SOT-23,TP	
.....3	0401-000191	D505	1	DIODE-SWITCHING	MMBD4148,100V,200mA,SOT-23,TP	
.....3	0404-001020	D512	1	DIODE-SCHOTTKY	BAT54C,30V,200mA,SOT-23,TP	
.....3	0404-001084	D510	1	DIODE-SCHOTTKY	BAT54A,30V,200mA,SOT-23,TP	
.....3	0404-001084	D511	1	DIODE-SCHOTTKY	BAT54A,30V,200mA,SOT-23,TP	
.....3	0505-001088	Q500	1	FET-SILICON	AO4807L,P,-30V,6A,0.028/0.035ohm,2W,SOIC-8	
.....3	0505-001844	Q501	1	FET-SILICON	SI4435DDY-T1-GE3,P,-30V,-11.4A,0.024ohm,5W,SO-8	
.....3	0505-001883	Q28	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q504	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q505	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-002166	Q503	1	FET-SILICON	SI2307BDS,P,30V,3.2A,0.063ohm,0.8W,SOT-23	
.....3	0505-002386	Q502	1	FET-SILICON	AO3415AL,P,-20V,-4A,0.045ohm,1.5W,SOT-23	
.....3	0601-002037	LED518	1	LED	SMD(TOP VIEW),BLUE,1.6x0.8mm,465/470nm,1.6x0.8x0.4mm	
.....3	0601-002037	LED519	1	LED	SMD(TOP VIEW),BLUE,1.6x0.8mm,465/470nm,1.6x0.8x0.4mm	
.....3	0601-002037	LED520	1	LED	SMD(TOP VIEW),BLUE,1.6x0.8mm,465/470nm,1.6x0.8x0.4mm	
.....3	0601-002037	LED522	1	LED	SMD(TOP VIEW),BLUE,1.6x0.8mm,465/470nm,1.6x0.8x0.4mm	
.....3	0601-002391	LED521	1	LED	SMD,RED/GRN,1.6x1.5x0.55mm,574~639nm,1.6x1.5x0.55mm	
.....3	0601-002846	LED500	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED501	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED502	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED503	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED504	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED505	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED506	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED507	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED508	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED509	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED510	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED511	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED512	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED513	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED514	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED515	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED516	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED517	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	1009-001010	U500	1	IC-HALL EFFECT S/W	A3212ELH/HED55XXU12,SC-59A,3P,82MIL,TP,PLASTIC,3.5V,2mA,-40to+85C,-,-	
.....3	1107-001709	U506	1	IC-FLASH MEMORY	MX25L1605DM2I-12G,16Mbit,2Mx8,SOP,8P,5.28x5.23mm,86MHz,2.7/3.6V,-40to+85C,20uA,TP	

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6. Material List

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.....3	1203-005735	U507	1	IC-PWM CONTROLLER	RT8205AGQW,QFN,24P,4x4mm,PLASTIC,2/5.5V,1.923W,-10to+85C,3A,2.0V,TR	
.....3	1203-005864	U501	1	IC-PWM CONTROLLER	TPS51620RHAR,QFN,40P,6x6x0.9mm,PLASTIC,-0.3/6V,3.125W,-40to+125C,-,1.685/1.735V,TP	
.....3	1203-006049	U505	1	IC-PWM CONTROLLER	APW7141QAITRG,QFN,14P,3.5x3.5mm,-,-0.75V to 5.5V,80W,-40to+85C,-,0.75V,TP	
.....3	1205-002596	SW500	1	IC-SWITCH	TPS2062,SOIC,8P,5x6x1.65mm,PLASTIC,5V,585.82mW,-40to+85C,TP,-	
.....3	1205-002596	SW501	1	IC-SWITCH	TPS2062,SOIC,8P,5x6x1.65mm,PLASTIC,5V,585.82mW,-40to+85C,TP,-	
.....3	1205-003904	U503	1	IC-ETHERNET CONTROLLER	88E8040-A0-NNB2C000,QFN,48P,7x7mm,PLASTIC,3.465V,332mW,0to+70C,TR,PCI-E, Fast Ethernet	
.....3	1209-001887	U502	1	IC-SENSOR	EMC2112-BP-TR,QFN,20P,4x4mm,PLASTIC,5.5V,0.9W,0to+85C,TR	
.....3	2007-000057	R565	1	R-CHIP	40.2Kohm,1%,1/10W,TP,1608	
.....3	2007-000070	R536	1	R-CHIP	0ohm,5%,1/10W,TP,1608	
.....3	2007-000077	R530	1	R-CHIP	470ohm,5%,1/10W,TP,1608	
.....3	2007-000077	R531	1	R-CHIP	470ohm,5%,1/10W,TP,1608	
.....3	2007-000077	R532	1	R-CHIP	470ohm,5%,1/10W,TP,1608	
.....3	2007-000077	R533	1	R-CHIP	470ohm,5%,1/10W,TP,1608	
.....3	2007-000141	R694	1	R-CHIP	2.2Kohm,5%,1/16W,TP,1005	
.....3	2007-000173	R578	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000173	R579	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000173	R583	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000173	R730	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000173	R731	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000173	R732	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000173	R733	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000173	R734	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000173	R735	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000309	R800	1	R-CHIP	10ohm,5%,1/10W,TP,1608	
.....3	2007-000503	R644	1	R-CHIP	2.2ohm,5%,1/10W,TP,1608	
.....3	2007-000695	R527	1	R-CHIP	3.3ohm,5%,1/10W,TP,1608	
.....3	2007-000695	R548	1	R-CHIP	3.3ohm,5%,1/10W,TP,1608	
.....3	2007-000695	R660	1	R-CHIP	3.3ohm,5%,1/10W,TP,1608	
.....3	2007-000695	R663	1	R-CHIP	3.3ohm,5%,1/10W,TP,1608	
.....3	2007-000695	R665	1	R-CHIP	3.3ohm,5%,1/10W,TP,1608	
.....3	2007-001313	R678	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R679	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R680	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R681	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R682	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R685	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R698	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R728	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R775	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R789	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R794	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R795	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R798	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R807	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R809	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R811	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R818	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R821	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-002425	R625	1	R-CHIP	1ohm,5%,1/10W,TP,1608	
.....3	2007-002425	R626	1	R-CHIP	1ohm,5%,1/10W,TP,1608	
.....3	2007-002425	R650	1	R-CHIP	1ohm,5%,1/10W,TP,1608	
.....3	2007-002900	R658	1	R-CHIP	11Kohm,1%,1/10W,TP,1608	
.....3	2007-002918	R543	1	R-CHIP	51.1Kohm,1%,1/10W,TP,1608	
.....3	2007-002970	R128	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R129	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R130	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R563	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R564	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R585	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R699	1	R-CHIP	56ohm,5%,1/16W,TP,1005	

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6. Material List

Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2007-002970	R700	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R701	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R702	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R703	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R704	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R705	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R706	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R707	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R708	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R709	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R710	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R711	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R712	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R713	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R714	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R715	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R716	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R717	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R718	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R719	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R720	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R721	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R722	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R723	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R724	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R725	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R748	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R749	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R750	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R751	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R752	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R753	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R754	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R755	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R756	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R757	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R758	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R759	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R760	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R761	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R776	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R777	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R778	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R779	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R780	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R781	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R782	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R783	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R784	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R785	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R786	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R787	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R788	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-007100	R673	1	R-CHIP	10Mohm,5%,1/16W,TP,1005	
.....3	2007-007107	R510	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R528	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R539	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R555	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R567	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R635	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R693	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007108	R569	1	R-CHIP	43.2Kohm,1%,1/16W,TP,1005	
.....3	2007-007132	R654	1	R-CHIP	15Kohm,1%,1/16W,TP,1005	

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6. Material List

Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2007-007132	R657	1	R-CHIP	15Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R572	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R598	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R697	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R763	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R540	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R544	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R549	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R559	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R574	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R575	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R576	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R580	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R590	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R592	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R593	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R606	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R607	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R608	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R609	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R615	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R617	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R628	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R629	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R653	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R655	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R659	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R666	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R667	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R668	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R670	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R687	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R689	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R690	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R691	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R692	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R696	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R726	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R727	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R736	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R738	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R739	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R741	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R743	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R744	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R745	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R762	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R764	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R770	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R771	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R772	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R773	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R774	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007226	R589	1	R-CHIP	49.9ohm,1%,1/10W,TP,1608	
.....3	2007-007237	R556	1	R-CHIP	24.3Kohm,1%,1/10W,TP,1608	
.....3	2007-007306	R505	1	R-CHIP	100ohm,1%,1/16W,TP,1005	
.....3	2007-007306	R506	1	R-CHIP	100ohm,1%,1/16W,TP,1005	
.....3	2007-007306	R507	1	R-CHIP	100ohm,1%,1/16W,TP,1005	
.....3	2007-007306	R508	1	R-CHIP	100ohm,1%,1/16W,TP,1005	
.....3	2007-007306	R512	1	R-CHIP	100ohm,1%,1/16W,TP,1005	
.....3	2007-007306	R588	1	R-CHIP	100ohm,1%,1/16W,TP,1005	
.....3	2007-007306	R634	1	R-CHIP	100ohm,1%,1/16W,TP,1005	
.....3	2007-007306	R674	1	R-CHIP	100ohm,1%,1/16W,TP,1005	

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Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2007-007306	R746	1	R-CHIP	100ohm,1%,1/16W,TP,1005	
.....3	2007-007306	R767	1	R-CHIP	100ohm,1%,1/16W,TP,1005	
.....3	2007-007306	R834	1	R-CHIP	100ohm,1%,1/16W,TP,1005	
.....3	2007-007307	R599	1	R-CHIP	150ohm,1%,1/16W,TP,1005	
.....3	2007-007307	R600	1	R-CHIP	150ohm,1%,1/16W,TP,1005	
.....3	2007-007307	R601	1	R-CHIP	150ohm,1%,1/16W,TP,1005	
.....3	2007-007311	R645	1	R-CHIP	22Kohm,1%,1/16W,TP,1005	
.....3	2007-007312	R500	1	R-CHIP	20Kohm,1%,1/16W,TP,1005	
.....3	2007-007312	R792	1	R-CHIP	20Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R511	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R526	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R586	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R594	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R621	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R633	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R647	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R737	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R742	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R797	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007334	R537	1	R-CHIP	200Kohm,1%,1/16W,TP,1005	
.....3	2007-007334	R643	1	R-CHIP	200Kohm,1%,1/16W,TP,1005	
.....3	2007-007484	R642	1	R-CHIP	4.64Kohm,1%,1/16W,TP,1005	
.....3	2007-007489	R519	1	R-CHIP	150Kohm,1%,1/16W,TP,1005	
.....3	2007-007489	R529	1	R-CHIP	150Kohm,1%,1/16W,TP,1005	
.....3	2007-007520	R501	1	R-CHIP	20ohm,1%,1/10W,TP,1608	
.....3	2007-007520	R502	1	R-CHIP	20ohm,1%,1/10W,TP,1608	
.....3	2007-007520	R503	1	R-CHIP	20ohm,1%,1/10W,TP,1608	
.....3	2007-007528	R562	1	R-CHIP	1.5Kohm,1%,1/16W,TP,1005	
.....3	2007-007642	R671	1	R-CHIP	12.1ohm,1%,1/16W,TP,1005	
.....3	2007-007642	R676	1	R-CHIP	12.1ohm,1%,1/16W,TP,1005	
.....3	2007-007642	R677	1	R-CHIP	12.1ohm,1%,1/16W,TP,1005	
.....3	2007-007766	R509	1	R-CHIP	2Kohm,1%,1/16W,TP,1005	
.....3	2007-007766	R573	1	R-CHIP	2Kohm,1%,1/16W,TP,1005	
.....3	2007-007766	R584	1	R-CHIP	2Kohm,1%,1/16W,TP,1005	
.....3	2007-007792	R587	1	R-CHIP	221ohm,1%,1/16W,TP,1005	
.....3	2007-007942	R793	1	R-CHIP	1Mohm,1%,1/16W,TP,1005	
.....3	2007-007946	R656	1	R-CHIP	470Kohm,1%,1/16W,TP,1005	
.....3	2007-008007	R672	1	R-CHIP	3.24Kohm,1%,1/10W,TP,1608	
.....3	2007-008015	R603	1	R-CHIP	75ohm,1%,1/16W,TP,1005	
.....3	2007-008015	R604	1	R-CHIP	75ohm,1%,1/16W,TP,1005	
.....3	2007-008015	R605	1	R-CHIP	75ohm,1%,1/16W,TP,1005	
.....3	2007-008148	R566	1	R-CHIP	121Kohm,1%,1/10W,TP,1608	
.....3	2007-008275	R538	1	R-CHIP	30Kohm,1%,1/16W,TP,1005	
.....3	2007-008293	R581	1	R-CHIP	475ohm,1%,1/16W,TP,1005	
.....3	2007-008293	R582	1	R-CHIP	475ohm,1%,1/16W,TP,1005	
.....3	2007-008294	R577	1	R-CHIP	33ohm,1%,1/16W,TP,1005	
.....3	2007-008302	R648	1	R-CHIP	80.6ohm,1%,1/16W,TP,1005	
.....3	2007-008302	R649	1	R-CHIP	80.6ohm,1%,1/16W,TP,1005	
.....3	2007-008303	R522	1	R-CHIP	27.4ohm,1%,1/16W,TP,1005	
.....3	2007-008303	R547	1	R-CHIP	27.4ohm,1%,1/16W,TP,1005	
.....3	2007-008304	R627	1	R-CHIP	300Kohm,1%,1/16W,TP,1005	
.....3	2007-008314	R127	1	R-CHIP	54.9ohm,1%,1/16W,TP,1005	
.....3	2007-008314	R520	1	R-CHIP	54.9ohm,1%,1/16W,TP,1005	
.....3	2007-008314	R521	1	R-CHIP	54.9ohm,1%,1/16W,TP,1005	
.....3	2007-008314	R523	1	R-CHIP	54.9ohm,1%,1/16W,TP,1005	
.....3	2007-008314	R524	1	R-CHIP	54.9ohm,1%,1/16W,TP,1005	
.....3	2007-008314	R525	1	R-CHIP	54.9ohm,1%,1/16W,TP,1005	
.....3	2007-008314	R546	1	R-CHIP	54.9ohm,1%,1/16W,TP,1005	
.....3	2007-008330	R766	1	R-CHIP	22.6ohm,1%,1/16W,TP,1005	
.....3	2007-008359	R646	1	R-CHIP	3.01Kohm,1%,1/16W,TP,1005	
.....3	2007-008400	R675	1	R-CHIP	453ohm,1%,1/10W,TP,1608	
.....3	2007-008429	R550	1	R-CHIP	499ohm,1%,1/16W,TP,1005	
.....3	2007-008429	R622	1	R-CHIP	499ohm,1%,1/16W,TP,1005	

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6. Material List

Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2007-008429	R651	1	R-CHIP	499ohm,1%,1/16W,TP,1005	
.....3	2007-008708	R595	1	R-CHIP	40.2ohm,1%,1/16W,TP,1005	
.....3	2007-008708	R596	1	R-CHIP	40.2ohm,1%,1/16W,TP,1005	
.....3	2007-008714	R504	1	R-CHIP	0.01ohm,1%,1W,TP,6432	
.....3	2007-009768	R641	1	R-CHIP	10.7Kohm,1%,1/16W,TP,1005	
.....3	2203-000233	C699	1	C-CER,CHIP	0.1nF,5%,50V,C0G,TP,1005	
.....3	2203-000278	C612	1	C-CER,CHIP	.01nF,0.5pF,50V,C0G,TP,1005	
.....3	2203-000425	C569	1	C-CER,CHIP	.018nF,5%,50V,C0G,TP,1005	
.....3	2203-000425	C570	1	C-CER,CHIP	.018nF,5%,50V,C0G,TP,1005	
.....3	2203-000438	C611	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C622	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C623	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C669	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C670	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C823	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000489	C560	1	C-CER,CHIP	2.2nF,10%,50V,X7R,TP,1005	
.....3	2203-000489	C564	1	C-CER,CHIP	2.2nF,10%,50V,X7R,TP,1005	
.....3	2203-000489	C565	1	C-CER,CHIP	2.2nF,10%,50V,X7R,TP,1005	
.....3	2203-000575	C541	1	C-CER,CHIP	220nF,10%,25V,X7R,TP,2012	
.....3	2203-000575	C542	1	C-CER,CHIP	220nF,10%,25V,X7R,TP,2012	
.....3	2203-000604	C518	1	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	
.....3	2203-000604	C777	1	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	
.....3	2203-000604	C811	1	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	
.....3	2203-000627	C634	1	C-CER,CHIP	.022nF,5%,50V,C0G,TP,1005	
.....3	2203-000627	C672	1	C-CER,CHIP	.022nF,5%,50V,C0G,TP,1005	
.....3	2203-000627	C771	1	C-CER,CHIP	.022nF,5%,50V,C0G,TP,1005	
.....3	2203-000654	C514	1	C-CER,CHIP	.27nF,10%,50V,X7R,TP,1005	
.....3	2203-000654	C526	1	C-CER,CHIP	.27nF,10%,50V,X7R,TP,1005	
.....3	2203-000812	C513	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-000812	C525	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-000812	C545	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-000812	C546	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-000812	C547	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-000812	C548	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-000812	C591	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-000812	C592	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-000812	C593	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-000812	C628	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-000812	C629	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-000812	C630	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-001140	C549	1	C-CER,CHIP	68nF,10%,16V,X7R,1608	
.....3	2203-001140	C550	1	C-CER,CHIP	68nF,10%,16V,X7R,1608	
.....3	2203-001201	C739	1	C-CER,CHIP	0.007nF,0.5pF,50V,NP0,TP,1005	
.....3	2203-001201	C740	1	C-CER,CHIP	0.007nF,0.5pF,50V,NP0,TP,1005	
.....3	2203-002050	C700	1	C-CER,CHIP	47nF,10%,50V,X7R,1608	
.....3	2203-002494	C608	1	C-CER,CHIP	470nF,10%,16V,X7R,2012	
.....3	2203-002494	C645	1	C-CER,CHIP	470nF,10%,16V,X7R,2012	
.....3	2203-002494	C664	1	C-CER,CHIP	470nF,10%,16V,X7R,2012	
.....3	2203-002711	C529	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002711	C531	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002711	C716	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002711	C721	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002711	C722	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002711	C724	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002720	C502	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C594	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C604	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C627	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C671	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C691	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C692	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C693	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C694	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	

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6. Material List

Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2203-005482	C665	1	C-CER,CHIP	100nF,10%,10V,X5R,TP,1005	
.....3	2203-005482	C666	1	C-CER,CHIP	100nF,10%,10V,X5R,TP,1005	
.....3	2203-005509	C553	1	C-CER,CHIP	330nF,+80-20%,10V,Y5V,TP,1005	
.....3	2203-006048	C1	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C124	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C207	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C506	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C508	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C523	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C524	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C527	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C551	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C552	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C554	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C555	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C557	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C558	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C562	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C563	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C567	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C584	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C585	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C587	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C590	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C595	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C596	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C597	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C598	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C599	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C600	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C601	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C602	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C603	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C609	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C610	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C614	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C615	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C616	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C617	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C618	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C619	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C620	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C621	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C626	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C631	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C632	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C635	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C636	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C637	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C638	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C640	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C643	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C644	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C649	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C650	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C652	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C658	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C662	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C663	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C673	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C682	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C683	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C686	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	

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6. Material List

Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2203-006048	C688	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C696	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C698	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C702	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C703	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C705	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C717	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C718	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C719	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C726	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C730	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C731	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C734	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C735	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C736	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C738	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C741	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C744	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C746	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C748	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C749	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C750	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C751	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C752	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C753	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C755	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C758	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C761	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C763	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C765	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C767	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C769	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C770	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C773	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C774	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C775	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C776	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C782	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C784	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C786	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C787	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C788	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C789	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C792	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C797	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C798	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C799	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C801	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C802	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C803	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C806	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C808	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C813	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C815	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C816	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C818	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C821	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C822	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C825	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C827	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C828	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C836	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C90	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	

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6. Material List

Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2203-006090	C504	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C515	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C516	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C533	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C534	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C535	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C536	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C537	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C538	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C539	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C540	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C543	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C566	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C572	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C573	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C574	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C575	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C576	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C577	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C578	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C583	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C588	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C589	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C605	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C633	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C648	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C651	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C654	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C655	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C656	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C667	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C668	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C680	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C681	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C687	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C706	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C720	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C728	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C732	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C809	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006166	C503	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C519	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C520	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C521	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C522	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C532	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C747	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C829	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C830	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C839	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C842	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006170	C561	1	C-CER,CHIP	220nF,10%,16V,X7R,1608	
.....3	2203-006170	C685	1	C-CER,CHIP	220nF,10%,16V,X7R,1608	
.....3	2203-006170	C690	1	C-CER,CHIP	220nF,10%,16V,X7R,1608	
.....3	2203-006170	C709	1	C-CER,CHIP	220nF,10%,16V,X7R,1608	
.....3	2203-006324	C742	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C743	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C745	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C768	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C791	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C793	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C794	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C795	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	

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Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2203-006324	C796	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C807	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C814	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C824	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006377	C509	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C511	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C512	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C530	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C715	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C725	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006399	C500	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C528	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C581	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C607	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C625	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C653	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C657	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C659	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C677	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C679	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C729	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C772	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C781	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C812	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C826	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C831	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C845	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006474	C723	1	C-CER,CHIP	22000nF,20%,6.3V,X5R,2012	
.....3	2203-006824	C674	1	C-CER,CHIP	4700nF,10%,10V,X5R,1608	
.....3	2402-001042	EC500	1	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
.....3	2409-001159	EC502	1	C-ORGANIC,SMD	220uF,20%,2.5V,TP,3.5x2.8x1.9mm	
.....3	2603-000099	LT500	1	TRANS-MATCHING	1:1,8mA,8P:8P,12.7x7.11x1.9mm,TP	
.....3	2801-003856	Y501	1	CRYSTAL-SMD	0.032768MHz,20ppm,28-ACP,7pF,65000ohm,TP	
.....3	2801-003856	Y502	1	CRYSTAL-SMD	0.032768MHz,20ppm,28-ACP,7pF,65000ohm,TP	
.....3	3003-001158	MIC500	1	MIC-CONDENSOR	4.5VV,-,-42dB,2.2kOhm	
.....3	3301-001272	B500	1	BEAD-SMD	120ohm,2x1.25x1mm,TR,-,-	
.....3	3301-001272	B501	1	BEAD-SMD	120ohm,2x1.25x1mm,TR,-,-	
.....3	3301-001649	B502	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B503	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B504	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B505	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B506	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B507	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B508	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B509	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B510	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B511	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B512	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3404-001311	SW504	1	SWITCH-TACT	12VDC,50mA,100gf,6.0x6.0x5.0mm,SPST	
.....3	3404-001311	SW505	1	SWITCH-TACT	12VDC,50mA,100gf,6.0x6.0x5.0mm,SPST	
.....3	3701-001515	J508	1	CONNECTOR-DSUB	15P,3R,FEMALE,ANGLE,AU	
.....3	3701-001597	J515	1	CONNECTOR-HDMI	19P,2R,FEMALE,ANGLE,Au	
.....3	3708-002166	J514	1	CONNECTOR-FPC/FFC/PIC	25P,1.0mm,SMD-A,AU,Y,FLIP,BOTTOM	
.....3	3708-002402	J513	1	CONNECTOR-FPC/FFC/PIC	6P,1.0mm,SMD-A,SnBi,Y,SLIDE,BOTTOM	
.....3	3708-002582	J518	1	CONNECTOR-FPC/FFC/PIC	12P,0.5mm,SMD-A,Au,Y,FLIP,BOTTOM	
.....3	3710-002498	J505	1	SOCKET-BOARD TO CABLE	30P,2R,1mm,SMD-A,AU,NTR	
.....3	3710-002634	J504	1	SOCKET-INTERFACE	13P,1R,1mm,ANGLE,AU,BLK	
.....3	3711-000556	J507	1	HEADER-BOARD TO CABLE	BOX,12P,1R,1.25mm,SMD-A,SN,WHT	

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Level	Code	Assembled	EA	Description	Spec.	Service
.....3	3711-000922	J516	1	HEADER-BOARD TO CABLE	BOX,4P,1R,1.25mm,SMD-A,SN,WHT	
.....3	3711-002046	J501	1	HEADER-BOARD TO CABLE	BOX,12P,1R,1.25mm,SMD-S,SN,WHT	
.....3	3711-007011	J503	1	HEADER-BATTERY	NOWALL,7P,1R,2.5mm,BATTERY TYPE,AU,BLK	
.....3	3722-002588	J520	1	JACK-PHONE	6P,AU,BLK,ANGLE	
.....3	3722-002588	J521	1	JACK-PHONE	6P,AU,BLK,ANGLE	
.....3	3722-002767	J519	1	JACK-USB	4P/1C,AU,BLK,ANGLE,A	
.....3	3722-002865	J511	1	JACK-MODULAR	8P/8C,STANDARD,N,SMD-A,GRN/YEL,Au,1PORT	
.....3	3722-002925	J502	1	JACK-USB	4P/2C,AUF,BLK,ANGLE-OFFSET,A,-	
.....3	3722-002997	J500	1	JACK-DC POWER	3P,5.6PI,AUF,BLK	
.....3	4309-001022	J522	1	BATTERY-HOLDER	CELL,PIN,25.4mm,28.45x19.30x4.98mm,TP,1.1g,1.1g	
.....3	BA09-00021A	U504	1	IC MICOM	MEC1308-NU,-,128,3.3V,32.768KHz,Romless,16M,8,VTQFP,TRAY, 14mm*14mm*1.0mm,8,0~70,-,0,VTQFP,-	
.....3	BA41-01178A	PCB	1	PCB MAIN	Bremen-UL,FR-4,6L,-,1.1T,w238*L210mm,-,-,-,OSP,NANYA,-	
.....3	BA61-01090A	M500	1	SUPPORT-MINICARD	RIMINI,ALLOY,T1.5,W4.5,L1.5mm,NTR,-,-	
.....3	BA61-01090A	M501	1	SUPPORT-MINICARD	RIMINI,ALLOY,T1.5,W4.5,L1.5mm,NTR,-,-	
.....3	BA68-03588A	BIOS REV	1	LABEL-SPI	RIMINI,SEC,paper,-,W4.5,L4mm,white,white,SPI,Revsion,-,-,-	
.....3	BA68-10191W	SMT_SN	1	LABEL-BARCODE	Note PC ALL,-,ARTPAPER,-,W6,L40mm,White,-,PCB-TOP/ BOTTOM,Barcode-SMT,-,-,-	
.....3	BA68-40012N	MICOM_REV	1	LABEL-LOCATION	NOTE PC,-,ART PAPER,-,W6.2,L6.2MM,-,-,-,-,-,-,-	
.....3	BA70-00606A	EMI2	1	GASKET-EMI	SANTAFE,BERYLLIUM COPPER,T0.08,BRIGHT TIN,W3.0,- ,L2.0*H4.0mm,HV370-HV410	
.....3	BA81-07945B	SMT1	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT10	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT2	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT5	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT6	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT7	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT8	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT9	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA99-07565A	SMT SUB MATERIAL	1	ASSY SUB/MATERIAL-NP_SMT	N/P,SMT SUB/MATERIAL,RIBBON,SOLVENT,BOND,-	
.....4	0201-000160	PART ADHESIVE	0.001	ADHESIVE-TS	D520,NTR	
.....4	0201-001002	ABLE BOND	0.001	ADHESIVE-TS	8380,SIL,9000CPS,10cc	
.....4	0202-001499	0.6 SMT	1	SOLDER-WIRE FLUX	SR34 SUPER LFM-48,-,D0.6,96.5Sn/3Ag/0.5Cu,Flux_3.5%	
.....4	0202-001520	SOLDER CREAM	6	SOLDER-CREAM	LFM-48X TM-HP,D25-45um,96.5Sn/3Ag/0.5Cu,Flux 12.0%	
.....4	0202-001704	SOLDER CREAM	6	SOLDER-CREAM	NP303-CQS-2-F1,D22-32um,96.5Sn/3Ag/0.5Cu,Flux 11.5%	
.....4	0204-000199	METAL MASK SOLVENT	0.001	SOLVENT	SUPANUKE-20,I.P.A,98%	
....2	BA92-06119D	SMT_D	1	ASSY MOTHER BD-SMT_D	BREMEN-UL,PGA,DDR2,-,NT,-,SMT_D,PV/CONFIG1	
.....3	0401-000191	D1	1	DIODE-SWITCHING	MMBD4148,100V,200mA,SOT-23,TP	
.....3	0401-000191	D13	1	DIODE-SWITCHING	MMBD4148,100V,200mA,SOT-23,TP	
.....3	0404-001084	D14	1	DIODE-SCHOTTKY	BAT54A,30V,200mA,SOT-23,TP	
.....3	0404-001084	D5	1	DIODE-SCHOTTKY	BAT54A,30V,200mA,SOT-23,TP	
.....3	0404-001084	D7	1	DIODE-SCHOTTKY	BAT54A,30V,200mA,SOT-23,TP	
.....3	0404-001382	D6	1	DIODE-SCHOTTKY	CRS06,20V,1000mA,3-2A1A,TP	
.....3	0501-000465	Q9	1	TR-SMALL SIGNAL	MMBT3904,NPN,350mW,SOT-23,TP,30-300	
.....3	0505-001007	Q20	1	FET-SILICON	AO4822AL,N,30V,8.5A,0.016ohm,1.1W,SOIC-8	
.....3	0505-001007	Q25	1	FET-SILICON	AO4822AL,N,30V,8.5A,0.016ohm,1.1W,SOIC-8	
.....3	0505-001007	Q7	1	FET-SILICON	AO4822AL,N,30V,8.5A,0.016ohm,1.1W,SOIC-8	
.....3	0505-001064	Q22	1	FET-SILICON	BSS138,N,50V,0.22A,3.5ohm,0.36W,SOT-23	
.....3	0505-001123	Q3	1	FET-SILICON	SIR474DP,N,30V,20A,0.0075/0.0095ohm,29.8W,PowerPAK SO-8	
.....3	0505-001123	Q4	1	FET-SILICON	SIR474DP,N,30V,20A,0.0075/0.0095ohm,29.8W,PowerPAK SO-8	
.....3	0505-001844	Q27	1	FET-SILICON	SI4435DDY-T1-GE3,P,-30V,-11.4A,0.024ohm,5W,SO-8	
.....3	0505-001883	Q10	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q12	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q15	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q16	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q17	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q23	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q26	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q29	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q5	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	

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6. Material List

Level	Code	Assembled	EA	Description	Spec.	Service
.....3	0505-001883	Q517	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q6	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q8	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-002340	Q19	1	FET-SILICON	FDMS9620S,N,30V,16A/18A,0.021/0.013ohm,2.5W,Power56	
.....3	0505-002340	Q21	1	FET-SILICON	FDMS9620S,N,30V,16A/18A,0.021/0.013ohm,2.5W,Power56	
.....3	0505-002386	Q518	1	FET-SILICON	AO3415AL,P,-20V,-4A,0.045ohm,1.5W,SOT-23	
.....3	0505-002510	Q1	1	FET-SILICON	AON6716L,N,30V,85A,0.0028ohm,2.3W,SO-8(PowerPAK)	
.....3	0505-002510	Q2	1	FET-SILICON	AON6716L,N,30V,85A,0.0028ohm,2.3W,SO-8(PowerPAK)	
.....3	0505-002595	Q24	1	FET-SILICON	AP2607GY-HF,P,-20V,-4A,0.052ohm,2W,SOT-26	
.....3	0601-002846	LED1	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0801-002628	U1	1	IC-CMOS LOGIC	7SZ08,2-INPUT AND GATE,SC-70,5P,49MIL,SINGLE,TP,CMOS,1.8/5.5V,0V,-40to+85,150mW,0V,20uA,10uA,-	
.....3	0801-002998	U2	1	IC-CMOS LOGIC	74AHCT1G125,Single buffer,SC-70,5P,2x1.25mm,SINGLE,TP,3-STATE,4.5/5.5V,0.44V,-40	
.....3	0801-002998	U3	1	IC-CMOS LOGIC	74AHCT1G125,Single buffer,SC-70,5P,2x1.25mm,SINGLE,TP,3-STATE,4.5/5.5V,0.44V,-40	
.....3	0904-002378	U10	1	IC-I/O CONTROLLER	AF82801IBM,mBGA,676P,31x31mm,100MHz,TR,PLASTIC,3.3V,4.3W,0to+113C,ICH9-M(BASE)	
.....3	0904-002453	U13	1	IC-BUS CONTROLLER	AU6336,QFN,28P,5x5mm,48MHz,TR,Plastic,3.3V,0to+85C,SDHC	
.....3	0904-002484	U7	1	IC-DRAM CONTROLLER	EB88CTGM,FCBGA,1329P,34x34mm,533MHz,TR,PLASTIC,1.05V,12W,0to+105C,GM45	
.....3	1006-001427	U6	1	IC-BUS TRANSCEIVER	PS8101,QFN,48P,7x7mm,TR,PLASTIC,3.3V,0to+70C,916mW,2.4V,HDMI level shifter	
.....3	1203-005867	U4	1	IC-BATTERY	BQ24751BRHDR,QFN,28P,5x5x0.9mm,PLASTIC,8/18.048V,2.26W,-40to+155C,-,3.267/3.333V,TP	
.....3	1203-006049	U15	1	IC-PWM CONTROLLER	APW7141QAITRG,QFN,14P,3.5x3.5mm,-,-0.75V to 5.5V,80W,-40to+85C,-,0.75V,TP	
.....3	1203-006056	U12	1	IC-POSI.ADJUST REG.	APL5930 KAI-TRG,SOP,8P,4.9x3.9mm,PLASTIC,0.8/3.3,3W,-40to+85C,3A,0.8,TR,-	
.....3	1203-006083	U14	1	IC-POSI.ADJUST REG.	APL5336KAITRG,SOP-8P,8P,5x4mm,PLASTIC,-.03to7V,80,-40to+85C,1.5A,-.03to7V,TP,0.9V	
.....3	1205-003156	U5	1	IC-CLOCK GENERATOR	SLG8SP513,QFN,64P,9x9mm,PLASTIC,3.465V,0.825W,0to+70C,-,clock generator	
.....3	1205-003769	U9	1	IC-CODEC	ALC269Q-GR,QFN,48P,7x7mm,PLASTIC,5.25V,-,0to+70C,TR,-	
.....3	1404-001089	TH3	1	THERMISTOR-PTC	0.21ohm,-,-,6Vac,40A,2.2A,TP	
.....3	1404-001152	TH1	1	THERMISTOR-NTC	10KOHM,5%,3380K,1MW/C,TP	
.....3	1404-001152	TH2	1	THERMISTOR-NTC	10KOHM,5%,3380K,1MW/C,TP	
.....3	2007-000043	R833	1	R-CHIP	1Kohm,1%,1/10W,TP,1608	
.....3	2007-000070	R15	1	R-CHIP	0ohm,5%,1/10W,TP,1608	
.....3	2007-000070	R90	1	R-CHIP	0ohm,5%,1/10W,TP,1608	
.....3	2007-000141	R11	1	R-CHIP	2.2Kohm,5%,1/16W,TP,1005	
.....3	2007-000141	R12	1	R-CHIP	2.2Kohm,5%,1/16W,TP,1005	
.....3	2007-000141	R155	1	R-CHIP	2.2Kohm,5%,1/16W,TP,1005	
.....3	2007-000141	R24	1	R-CHIP	2.2Kohm,5%,1/16W,TP,1005	
.....3	2007-000141	R30	1	R-CHIP	2.2Kohm,5%,1/16W,TP,1005	
.....3	2007-000141	R35	1	R-CHIP	2.2Kohm,5%,1/16W,TP,1005	
.....3	2007-000141	R36	1	R-CHIP	2.2Kohm,5%,1/16W,TP,1005	
.....3	2007-000141	R64	1	R-CHIP	2.2Kohm,5%,1/16W,TP,1005	
.....3	2007-000141	R65	1	R-CHIP	2.2Kohm,5%,1/16W,TP,1005	
.....3	2007-000141	R68	1	R-CHIP	2.2Kohm,5%,1/16W,TP,1005	
.....3	2007-000171	R17	1	R-CHIP	0ohm,5%,1/16W,TP,1005	
.....3	2007-000171	R18	1	R-CHIP	0ohm,5%,1/16W,TP,1005	
.....3	2007-000171	R31	1	R-CHIP	0ohm,5%,1/16W,TP,1005	
.....3	2007-000171	R32	1	R-CHIP	0ohm,5%,1/16W,TP,1005	
.....3	2007-000171	R33	1	R-CHIP	0ohm,5%,1/16W,TP,1005	
.....3	2007-000171	R34	1	R-CHIP	0ohm,5%,1/16W,TP,1005	
.....3	2007-000173	R158	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000173	R165	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000173	R166	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000309	R103	1	R-CHIP	10ohm,5%,1/10W,TP,1608	
.....3	2007-000503	R203	1	R-CHIP	2.2ohm,5%,1/10W,TP,1608	
.....3	2007-000882	R40	1	R-CHIP	4.7ohm,5%,1/10W,TP,1608	
.....3	2007-000939	R181	1	R-CHIP	47Kohm,1%,1/10W,TP,1608	
.....3	2007-001139	R89	1	R-CHIP	7.5Kohm,1%,1/10W,TP,1608	
.....3	2007-001313	R169	1	R-CHIP	330ohm,5%,1/16W,TP,1005	

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Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2007-002425	R93	1	R-CHIP	1ohm,5%,1/10W,TP,1608	
.....3	2007-002899	R113	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R114	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R135	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R136	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R137	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R138	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R189	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R19	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R190	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R20	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R21	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R22	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R38	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R39	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R41	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002970	R139	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R140	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-007107	R105	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R111	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R119	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R13	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R14	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R150	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R159	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R182	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R183	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R191	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R194	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R195	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R198	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R814	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R87	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007132	R156	1	R-CHIP	15Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R123	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R141	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R142	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R143	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R6	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R75	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R77	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R79	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R8	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R84	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R95	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R96	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R102	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R104	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R132	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R154	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R157	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R162	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R171	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R172	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R175	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R176	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R177	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R178	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R179	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R180	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R196	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R197	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R202	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	

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.....3	2007-007142	R42	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R48	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R52	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R53	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R54	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R56	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R58	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R813	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R94	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R97	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R98	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R99	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007239	R151	1	R-CHIP	31.6Kohm,1%,1/10W,TP,1608	
.....3	2007-007239	R59	1	R-CHIP	31.6Kohm,1%,1/10W,TP,1608	
.....3	2007-007274	R152	1	R-CHIP	27.4Kohm,1%,1/10W,TP,1608	
.....3	2007-007274	R60	1	R-CHIP	27.4Kohm,1%,1/10W,TP,1608	
.....3	2007-007302	R115	1	R-CHIP	24.9ohm,1%,1/10W,TP,1608	
.....3	2007-007302	R116	1	R-CHIP	24.9ohm,1%,1/10W,TP,1608	
.....3	2007-007302	R161	1	R-CHIP	24.9ohm,1%,1/10W,TP,1608	
.....3	2007-007302	R72	1	R-CHIP	24.9ohm,1%,1/10W,TP,1608	
.....3	2007-007307	R25	1	R-CHIP	150ohm,1%,1/16W,TP,1005	
.....3	2007-007307	R26	1	R-CHIP	150ohm,1%,1/16W,TP,1005	
.....3	2007-007307	R27	1	R-CHIP	150ohm,1%,1/16W,TP,1005	
.....3	2007-007312	R147	1	R-CHIP	20Kohm,1%,1/16W,TP,1005	
.....3	2007-007312	R148	1	R-CHIP	20Kohm,1%,1/16W,TP,1005	
.....3	2007-007312	R193	1	R-CHIP	20Kohm,1%,1/16W,TP,1005	
.....3	2007-007312	R88	1	R-CHIP	20Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R122	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R144	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R145	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R16	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R43	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R44	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R45	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R46	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R55	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R80	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007334	R201	1	R-CHIP	200Kohm,1%,1/16W,TP,1005	
.....3	2007-007334	R815	1	R-CHIP	200Kohm,1%,1/16W,TP,1005	
.....3	2007-007352	R106	1	R-CHIP	130Kohm,1%,1/10W,TP,1608	
.....3	2007-007444	R37	1	R-CHIP	5.11Kohm,1%,1/10W,TP,1608	
.....3	2007-007489	R170	1	R-CHIP	150Kohm,1%,1/16W,TP,1005	
.....3	2007-007642	R70	1	R-CHIP	12.1ohm,1%,1/16W,TP,1005	
.....3	2007-007668	R61	1	R-CHIP	68.1Kohm,1%,1/10W,TP,1608	
.....3	2007-007697	R71	1	R-CHIP	2.4Kohm,1%,1/16W,TP,1005	
.....3	2007-007839	R51	1	R-CHIP	53.6Kohm,1%,1/10W,TP,1608	
.....3	2007-007937	R200	1	R-CHIP	17.4Kohm,1%,1/10W,TP,1608	
.....3	2007-007946	R23	1	R-CHIP	470Kohm,1%,1/16W,TP,1005	
.....3	2007-008134	R199	1	R-CHIP	12.4Kohm,1%,1/16W,TP,1005	
.....3	2007-008223	R146	1	R-CHIP	39.2Kohm,1%,1/10W,TP,1608	
.....3	2007-008275	R816	1	R-CHIP	30Kohm,1%,1/16W,TP,1005	
.....3	2007-008293	R1	1	R-CHIP	475ohm,1%,1/16W,TP,1005	
.....3	2007-008293	R810	1	R-CHIP	475ohm,1%,1/16W,TP,1005	
.....3	2007-008293	R812	1	R-CHIP	475ohm,1%,1/16W,TP,1005	
.....3	2007-008293	R817	1	R-CHIP	475ohm,1%,1/16W,TP,1005	
.....3	2007-008293	R819	1	R-CHIP	475ohm,1%,1/16W,TP,1005	
.....3	2007-008293	R820	1	R-CHIP	475ohm,1%,1/16W,TP,1005	
.....3	2007-008293	R822	1	R-CHIP	475ohm,1%,1/16W,TP,1005	
.....3	2007-008294	R186	1	R-CHIP	33ohm,1%,1/16W,TP,1005	
.....3	2007-008294	R66	1	R-CHIP	33ohm,1%,1/16W,TP,1005	
.....3	2007-008294	R67	1	R-CHIP	33ohm,1%,1/16W,TP,1005	
.....3	2007-008294	R69	1	R-CHIP	33ohm,1%,1/16W,TP,1005	
.....3	2007-008298	R184	1	R-CHIP	49.9ohm,1%,1/16W,TP,1005	

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6. Material List

Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2007-008298	R185	1	R-CHIP	49.9ohm,1%,1/16W,TP,1005	
.....3	2007-008298	R187	1	R-CHIP	49.9ohm,1%,1/16W,TP,1005	
.....3	2007-008298	R188	1	R-CHIP	49.9ohm,1%,1/16W,TP,1005	
.....3	2007-008298	R47	1	R-CHIP	49.9ohm,1%,1/16W,TP,1005	
.....3	2007-008304	R118	1	R-CHIP	300Kohm,1%,1/16W,TP,1005	
.....3	2007-008304	R134	1	R-CHIP	300Kohm,1%,1/16W,TP,1005	
.....3	2007-008304	R49	1	R-CHIP	300Kohm,1%,1/16W,TP,1005	
.....3	2007-008304	R50	1	R-CHIP	300Kohm,1%,1/16W,TP,1005	
.....3	2007-008304	R57	1	R-CHIP	300Kohm,1%,1/16W,TP,1005	
.....3	2007-008359	R7	1	R-CHIP	3.01Kohm,1%,1/16W,TP,1005	
.....3	2007-008359	R9	1	R-CHIP	3.01Kohm,1%,1/16W,TP,1005	
.....3	2007-008429	R83	1	R-CHIP	499ohm,1%,1/16W,TP,1005	
.....3	2007-008708	R28	1	R-CHIP	40.2ohm,1%,1/16W,TP,1005	
.....3	2007-008708	R29	1	R-CHIP	40.2ohm,1%,1/16W,TP,1005	
.....3	2007-008714	R10	1	R-CHIP	0.01ohm,1%,1W,TP,6432	
.....3	2203-000233	C138	1	C-CER,CHIP	0.1nF,5%,50V,C0G,TP,1005	
.....3	2203-000233	C153	1	C-CER,CHIP	0.1nF,5%,50V,C0G,TP,1005	
.....3	2203-000233	C154	1	C-CER,CHIP	0.1nF,5%,50V,C0G,TP,1005	
.....3	2203-000233	C156	1	C-CER,CHIP	0.1nF,5%,50V,C0G,TP,1005	
.....3	2203-000233	C157	1	C-CER,CHIP	0.1nF,5%,50V,C0G,TP,1005	
.....3	2203-000233	C235	1	C-CER,CHIP	0.1nF,5%,50V,C0G,TP,1005	
.....3	2203-000233	C62	1	C-CER,CHIP	0.1nF,5%,50V,C0G,TP,1005	
.....3	2203-000278	C74	1	C-CER,CHIP	.01nF,0.5pF,50V,C0G,TP,1005	
.....3	2203-000278	C75	1	C-CER,CHIP	.01nF,0.5pF,50V,C0G,TP,1005	
.....3	2203-000438	C104	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C105	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C106	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C107	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C12	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C129	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C151	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C152	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C185	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C215	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C219	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C23	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C25	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C54	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C7	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000627	C211	1	C-CER,CHIP	.022nF,5%,50V,C0G,TP,1005	
.....3	2203-000627	C30	1	C-CER,CHIP	.022nF,5%,50V,C0G,TP,1005	
.....3	2203-000627	C31	1	C-CER,CHIP	.022nF,5%,50V,C0G,TP,1005	
.....3	2203-000627	C32	1	C-CER,CHIP	.022nF,5%,50V,C0G,TP,1005	
.....3	2203-000627	C33	1	C-CER,CHIP	.022nF,5%,50V,C0G,TP,1005	
.....3	2203-000627	C34	1	C-CER,CHIP	.022nF,5%,50V,C0G,TP,1005	
.....3	2203-000627	C35	1	C-CER,CHIP	.022nF,5%,50V,C0G,TP,1005	
.....3	2203-001683	C51	1	C-CER,CHIP	0.068nF,5%,50V,NP0,1608	
.....3	2203-002050	C182	1	C-CER,CHIP	47nF,10%,50V,X7R,1608	
.....3	2203-002050	C202	1	C-CER,CHIP	47nF,10%,50V,X7R,1608	
.....3	2203-002050	C225	1	C-CER,CHIP	47nF,10%,50V,X7R,1608	
.....3	2203-002487	C127	1	C-CER,CHIP	4.7nF,10%,25V,X7R,TP,1005	
.....3	2203-002494	C103	1	C-CER,CHIP	470nF,10%,16V,X7R,2012	
.....3	2203-002494	C208	1	C-CER,CHIP	470nF,10%,16V,X7R,2012	
.....3	2203-002494	C69	1	C-CER,CHIP	470nF,10%,16V,X7R,2012	
.....3	2203-002711	C130	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002711	C217	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002711	C228	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002711	C36	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002711	C41	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002711	C56	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002720	C121	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C136	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C177	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	

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Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2203-002720	C205	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C206	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C220	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C223	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C224	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C236	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C713	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C714	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C92	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C94	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-005509	C837	1	C-CER,CHIP	330nF,+80-20%,10V,Y5V,TP,1005	
.....3	2203-006000	C57	1	C-CER,CHIP	1nF,10%,3000V,X7R,TP,4520	
.....3	2203-006048	C101	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C111	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C115	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C120	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C123	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C125	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C140	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C141	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C145	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C146	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C147	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C148	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C149	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C161	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C168	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C169	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C17	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C170	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C174	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C178	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C186	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C187	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C189	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C19	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C190	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C195	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C196	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C197	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C199	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C2	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C20	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C200	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C203	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C204	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C209	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C21	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C213	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C218	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C237	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C4	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C46	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C47	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C58	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C59	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C6	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C60	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C61	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C613	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C72	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C73	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C76	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	

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6. Material List

Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2203-006048	C77	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C80	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C838	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C84	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C85	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C87	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C89	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C93	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C95	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C98	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C99	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006090	C112	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C113	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C114	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C132	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C133	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C135	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C160	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C171	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C173	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C175	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C179	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C18	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C181	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C229	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C232	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C79	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C83	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C844	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006166	C10	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C100	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C109	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C11	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C116	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C118	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C128	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C150	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C16	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C198	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C22	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C233	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C234	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C238	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C239	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C240	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C241	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C242	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C28	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C45	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C48	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C49	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C50	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C63	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C64	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C641	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C642	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C65	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C67	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C68	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C70	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C8	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C82	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C840	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	

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Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2203-006166	C841	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C9	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006324	C143	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C144	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C66	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006377	C131	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C139	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C183	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C184	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C216	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C226	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C27	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C29	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C37	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C38	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C39	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C40	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C53	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C843	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006399	C122	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C134	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C162	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C163	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C165	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C166	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C167	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C176	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C180	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C194	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C210	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C221	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C231	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006474	C97	1	C-CER,CHIP	22000nF,20%,6.3V,X5R,2012	
.....3	2203-006824	C193	1	C-CER,CHIP	4700nF,10%,10V,X5R,1608	
.....3	2203-006824	C201	1	C-CER,CHIP	4700nF,10%,10V,X5R,1608	
.....3	2203-006824	C214	1	C-CER,CHIP	4700nF,10%,10V,X5R,1608	
.....3	2203-006824	C71	1	C-CER,CHIP	4700nF,10%,10V,X5R,1608	
.....3	2203-006824	C78	1	C-CER,CHIP	4700nF,10%,10V,X5R,1608	
.....3	2402-001042	EC8	1	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
.....3	2402-001144	EC11	1	C-AL,SMD	68uF,20%,25V,LZ,TP,6.3*5.8mm	
.....3	2402-001144	EC12	1	C-AL,SMD	68uF,20%,25V,LZ,TP,6.3*5.8mm	
.....3	2402-001144	EC16	1	C-AL,SMD	68uF,20%,25V,LZ,TP,6.3*5.8mm	
.....3	2402-001144	EC3	1	C-AL,SMD	68uF,20%,25V,LZ,TP,6.3*5.8mm	
.....3	2402-001144	EC4	1	C-AL,SMD	68uF,20%,25V,LZ,TP,6.3*5.8mm	
.....3	2402-001144	EC5	1	C-AL,SMD	68uF,20%,25V,LZ,TP,6.3*5.8mm	
.....3	2402-001144	EC9	1	C-AL,SMD	68uF,20%,25V,LZ,TP,6.3*5.8mm	
.....3	2402-001361	EC1	1	C-AL,SMD	330uF,20%,2V,LR,TP,7.3x4.3x1.9mm	
.....3	2402-001361	EC2	1	C-AL,SMD	330uF,20%,2V,LR,TP,7.3x4.3x1.9mm	
.....3	2402-001361	EC509	1	C-AL,SMD	330uF,20%,2V,LR,TP,7.3x4.3x1.9mm	
.....3	2409-001175	EC14	1	C-ORGANIC,SMD	330uF,20%,6.3V,LR,TP,6.3x5.9mm	
.....3	2409-001175	EC15	1	C-ORGANIC,SMD	330uF,20%,6.3V,LR,TP,6.3x5.9mm	
.....3	2409-001176	EC13	1	C-ORGANIC,SMD	330uF,20%,2.5V,LR,TP,6.3x5.9mm	
.....3	2409-001176	EC17	1	C-ORGANIC,SMD	330uF,20%,2.5V,LR,TP,6.3x5.9mm	
.....3	2703-002309	L3	1	INDUCTOR-SMD	82nH,5%,1005	
.....3	2703-002309	L4	1	INDUCTOR-SMD	82nH,5%,1005	
.....3	2703-002309	L5	1	INDUCTOR-SMD	82nH,5%,1005	
.....3	2703-002988	L7	1	INDUCTOR-SMD	1.8uH,20%,10x10mm	
.....3	2703-002992	L1	1	INDUCTOR-SMD	0.39uH,20%,10x10mm	
.....3	2703-002992	L2	1	INDUCTOR-SMD	0.39uH,20%,10x10mm	
.....3	2703-003232	L10	1	INDUCTOR-SMD	2.2uH,20%,10x10mm	
.....3	2703-003233	L8	1	INDUCTOR-SMD	3.9uH,20%,10x10mm	
.....3	2703-003233	L9	1	INDUCTOR-SMD	3.9uH,20%,10x10mm	
.....3	2703-003654	L6	1	INDUCTOR-SMD	10uH,20%,10x10mm	

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Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2801-004874	Y500	1	CRYSTAL-SMD	14.31818MHz,50ppm,-,16,40ohm,TP	
.....3	2801-004875	Y1	1	CRYSTAL-SMD	25MHz,50ppm,-,10,40ohm,TP	
.....3	3301-001272	B1	1	BEAD-SMD	120ohm,2x1.25x1mm,TR,-,-	
.....3	3301-001272	B2	1	BEAD-SMD	120ohm,2x1.25x1mm,TR,-,-	
.....3	3301-001649	B15	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B16	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B17	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B18	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B19	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B20	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B21	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B22	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B23	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B24	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B25	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B26	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B3	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B4	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B5	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B6	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B7	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B8	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B9	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3404-001311	SW1	1	SWITCH-TACT	12VDC,50mA,100gf,6.0x6.0x5.0mm,SPST	
.....3	3704-001153	CPU1	1	SOCKET-IC	479P,PGA,AU,1.27mm	
.....3	3709-001492	J4	1	CONNECTOR-CARD SLOT	9P,2.5mm,SMD-A,AU,2 IN 1	
.....3	3709-001498	J3	1	CONNECTOR-CARD EDGE	52P,0.8mm,SMD-A,AU,MINI PCI Express	
.....3	3709-001572	DDR2M1	1	CONNECTOR-CARD EDGE	200P,0.6mm,SMD-A,AU,SODIMM	
.....3	3709-001573	DDR2M2	1	CONNECTOR-CARD EDGE	200P,0.6mm,SMD-A,AU,SODIMM	
.....3	3710-002788	JHDD1	1	SOCKET-INTERFACE	7+15P,1R,1.27mm,SMD-A,AU,BLK	
.....3	3711-000386	J5	1	HEADER-BOARD TO CABLE	BOX,10P,1R,1.25MM,SMD-S,SN,WHT	
.....3	3711-000456	J2	1	HEADER-BOARD TO CABLE	BOX,4P,1R,1.25mm,SMD-S,SN,NTR	
.....3	BA61-01090A	M1	1	SUPPORT-MINICARD	RIMINI,ALLOY,T1.5,W4.5,L1.5mm,NTR,-,-	
.....3	BA81-07945B	SMT11	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT12	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT13	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT14	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT15	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT16	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT4	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
..1	BA99-07566A	SUB MATERIAL	1	ASSY SUB/MATERIAL-NP_PBA	N/P,PBA SUB/MATERIAL,WIRE,FLUX,-	

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6. Material List

6-2. 17″ Material List

Level	Code	Assembled	EA	Description	Spec.	Service
..1	0203-001869	KAPTON_MICOM	0.05	TAPE-KAPTONE	K-CJ01,T0.06,W10,L33000mm,YELLOW,ROLL TYPE	
..1	0203-001869	KAPTON_RTC BAT	0.05	TAPE-KAPTONE	K-CJ01,T0.06,W10,L33000mm,YELLOW,ROLL TYPE	
..1	4301-000108	RTC BAT	1	BATTERY-LI	3V,220mAH,CR2032,20x3.2mm,NO,3.3g,Button Cell	
..1	4301-001070	RTC BAT	1	BATTERY-LI	3V,210mAH,CR2032,20x3.2mm,NO,2.9g,Button Cell	
..1	6001-001570	HDD SCREW	2	SCREW-MACHINE	CH,+,M2,L4,ZPC(BLK),SWRCH18A,FP,NYLOCK,T1.0	
..1	6001-001570	ODD SCREW	2	SCREW-MACHINE	CH,+,M2,L4,ZPC(BLK),SWRCH18A,FP,NYLOCK,T1.0	
..1	6001-001570	WLAN+MAIN PCB	1	SCREW-MACHINE	CH,+,M2,L4,ZPC(BLK),SWRCH18A,FP,NYLOCK,T1.0	
..1	BA41-01201A	ODD FFC	1	FFC-ODD	BREMEN,1.0,FILM,12PIN,T0.3,L61XW6.5MM,ODD FFC,-,-	
..1	BA59-02573A	WLAN-802.11BGN	1	MODULE-WLAN	AR5B95,T77H121.05,-,1x1,Half MiniCard Standard,-,-,- ,W30*L26.8*H4.75mm,-,Atheros 802.11bgn compliant,-	
..1	BA68-40005L	PBA SN LABEL	1	LABEL-BARCODE	NOTE PC,-,ART PAPER,-,W40.0,L6.0MM,-,-,-,-,-,-,-	
..1	BA75-01937A	M502	1	UNIT-BRACKET_CPU	PALAU,SEC,SPCC,W50*L40*T1.5mm,-,-,-,PBA	
..1	BA81-04279A	RUBBER-SUPPOR	1	RUBBER-SUPPORT	TORINO2-VE,DOMESTIC,SILICON RUBBER,W5*L5*H1.4mm,BLACK,RUBBER-SUPPORT,-	
..1	BA81-04683A	BRAKET-VGA	1	BRACKET-VGA	LYON,SUS 0.15T,W28.1*L11.0mm,NTR,-,-,-	
..1	BA81-07333A	RUBBER MIC	1	RUBBER-MIC	BONN-L,TPU,D13.1*H3.7mm,BLACK,-,-,-	
..1	BA81-08240A	INSULATOR_HDMI	1	INSULATOR-HDMI	BONN,PC,W12*L6*T0.2mm,BLACK,-,-	
..1	BA92-06122B	SMT	1	ASSY MOTHER BD-SMT	BREMEN-UL,PGA,DDR2,-,-,-,SMT,PV/CONFIG1	
....2	BA92-06122C	SMT_U	1	ASSY MOTHER BD-SMT_U	BREMEN-UL,PGA,DDR2,-,NT,-,SMT_U,PV/CONFIG1	
.....3	0401-000132	D500	1	DIODE-SWITCHING	BAV99,70V,50mA,SOT-23,TP	
.....3	0401-000132	D501	1	DIODE-SWITCHING	BAV99,70V,50mA,SOT-23,TP	
.....3	0401-000132	D503	1	DIODE-SWITCHING	BAV99,70V,50mA,SOT-23,TP	
.....3	0401-000191	D505	1	DIODE-SWITCHING	MMBD4148,100V,200mA,SOT-23,TP	
.....3	0404-001020	D512	1	DIODE-SCHOTTKY	BAT54C,30V,200mA,SOT-23,TP	
.....3	0404-001084	D510	1	DIODE-SCHOTTKY	BAT54A,30V,200mA,SOT-23,TP	
.....3	0404-001084	D511	1	DIODE-SCHOTTKY	BAT54A,30V,200mA,SOT-23,TP	
.....3	0505-001088	Q500	1	FET-SILICON	AO4807L,P,-30V,6A,0.028/0.035ohm,2W,SOIC-8	
.....3	0505-001844	Q501	1	FET-SILICON	SI4435DDY-T1-GE3,P,-30V,-11.4A,0.024ohm,5W,SO-8	
.....3	0505-001883	Q28	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q504	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q505	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-002166	Q503	1	FET-SILICON	SI2307BDS,P,30V,3.2A,0.063ohm,0.8W,SOT-23	
.....3	0505-002386	Q502	1	FET-SILICON	AO3415AL,P,-20V,-4A,0.045ohm,1.5W,SOT-23	
.....3	0601-002037	LED518	1	LED	SMD(TOP VIEW),BLUE,1.6x0.8mm,465/470nm,1.6x0.8x0.4mm	
.....3	0601-002037	LED519	1	LED	SMD(TOP VIEW),BLUE,1.6x0.8mm,465/470nm,1.6x0.8x0.4mm	
.....3	0601-002037	LED520	1	LED	SMD(TOP VIEW),BLUE,1.6x0.8mm,465/470nm,1.6x0.8x0.4mm	
.....3	0601-002037	LED522	1	LED	SMD(TOP VIEW),BLUE,1.6x0.8mm,465/470nm,1.6x0.8x0.4mm	
.....3	0601-002391	LED521	1	LED	SMD,RED/GRN,1.6x1.5x0.55mm,574~639nm,1.6x1.5x0.55mm	
.....3	0601-002846	LED500	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED501	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED502	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED503	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED504	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED505	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED512	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED513	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED514	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED515	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED516	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED517	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED523	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED524	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED525	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED526	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED527	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED528	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED529	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED530	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED531	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0601-002846	LED532	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	

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6. Material List

Level	Code	Assembled	EA	Description	Spec.	Service
.....3	1009-001010	U500	1	IC-HALL EFFECT S/W	A3212ELH/HED55XXU12,SC-59A,3P,82MIL,TP,PLASTIC,3.5V,2mA,-40to+85C,-,-	
.....3	1107-001709	U506	1	IC-FLASH MEMORY	MX25L1605DM2I-12G,16Mbit,2Mx8,SOP,8P,5.28x5.23mm,86MHz,2.7/3.6V,-40to+85C,20uA,TP	
.....3	1203-005735	U507	1	IC-PWM CONTROLLER	RT8205AGQW,QFN,24P,4x4mm,PLASTIC,2/5.5V,1.923W,-10to+85C,3A,2.0V,TR	
.....3	1203-005864	U501	1	IC-PWM CONTROLLER	TPS51620RHAR,QFN,40P,6x6x0.9mm,PLASTIC,-0.3/6V,3.125W,-40to+125C,-,1.685/1.735V,TP	
.....3	1203-006049	U505	1	IC-PWM CONTROLLER	APW7141QAITRG,QFN,14P,3.5x3.5mm,-,-0.75V to 5.5V,80W,-40to+85C,-,0.75V,TP	
.....3	1205-002596	SW500	1	IC-SWITCH	TPS2062,SOIC,8P,5x6x1.65mm,PLASTIC,5V,585.82mW,-40to+85C,TP,-	
.....3	1205-002596	SW501	1	IC-SWITCH	TPS2062,SOIC,8P,5x6x1.65mm,PLASTIC,5V,585.82mW,-40to+85C,TP,-	
.....3	1205-003904	U503	1	IC-ETHERNET CONTROLLER	88E8040-A0-NNB2C000,QFN,48P,7x7mm,PLASTIC,3.465V,332mW,0to+70C,TR,PCI-E, Fast Ethernet	
.....3	1209-001887	U502	1	IC-SENSOR	EMC2112-BP-TR,QFN,20P,4x4mm,PLASTIC,5.5V,0.9W,0to+85C,TR	
.....3	2007-000057	R565	1	R-CHIP	40.2Kohm,1%,1/10W,TP,1608	
.....3	2007-000070	R536	1	R-CHIP	0ohm,5%,1/10W,TP,1608	
.....3	2007-000077	R530	1	R-CHIP	470ohm,5%,1/10W,TP,1608	
.....3	2007-000077	R531	1	R-CHIP	470ohm,5%,1/10W,TP,1608	
.....3	2007-000077	R532	1	R-CHIP	470ohm,5%,1/10W,TP,1608	
.....3	2007-000077	R533	1	R-CHIP	470ohm,5%,1/10W,TP,1608	
.....3	2007-000141	R694	1	R-CHIP	2.2Kohm,5%,1/16W,TP,1005	
.....3	2007-000171	R513	1	R-CHIP	0ohm,5%,1/16W,TP,1005	
.....3	2007-000171	R514	1	R-CHIP	0ohm,5%,1/16W,TP,1005	
.....3	2007-000171	R515	1	R-CHIP	0ohm,5%,1/16W,TP,1005	
.....3	2007-000171	R516	1	R-CHIP	0ohm,5%,1/16W,TP,1005	
.....3	2007-000171	R517	1	R-CHIP	0ohm,5%,1/16W,TP,1005	
.....3	2007-000171	R518	1	R-CHIP	0ohm,5%,1/16W,TP,1005	
.....3	2007-000171	R541	1	R-CHIP	0ohm,5%,1/16W,TP,1005	
.....3	2007-000171	R542	1	R-CHIP	0ohm,5%,1/16W,TP,1005	
.....3	2007-000171	R557	1	R-CHIP	0ohm,5%,1/16W,TP,1005	
.....3	2007-000171	R558	1	R-CHIP	0ohm,5%,1/16W,TP,1005	
.....3	2007-000171	R768	1	R-CHIP	0ohm,5%,1/16W,TP,1005	
.....3	2007-000171	R769	1	R-CHIP	0ohm,5%,1/16W,TP,1005	
.....3	2007-000173	R578	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000173	R579	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000173	R583	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000173	R730	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000173	R731	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000173	R732	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000173	R733	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000173	R734	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000173	R735	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000309	R800	1	R-CHIP	10ohm,5%,1/10W,TP,1608	
.....3	2007-000503	R644	1	R-CHIP	2.2ohm,5%,1/10W,TP,1608	
.....3	2007-000695	R527	1	R-CHIP	3.3ohm,5%,1/10W,TP,1608	
.....3	2007-000695	R548	1	R-CHIP	3.3ohm,5%,1/10W,TP,1608	
.....3	2007-000695	R660	1	R-CHIP	3.3ohm,5%,1/10W,TP,1608	
.....3	2007-000695	R663	1	R-CHIP	3.3ohm,5%,1/10W,TP,1608	
.....3	2007-000695	R665	1	R-CHIP	3.3ohm,5%,1/10W,TP,1608	
.....3	2007-001313	R678	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R679	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R680	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R681	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R682	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R685	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R798	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R807	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R809	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R811	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R818	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R821	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R823	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R824	1	R-CHIP	330ohm,5%,1/16W,TP,1005	

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6. Material List

Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2007-001313	R825	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R826	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R827	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R828	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R829	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R830	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R831	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-001313	R832	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-002425	R625	1	R-CHIP	1ohm,5%,1/10W,TP,1608	
.....3	2007-002425	R626	1	R-CHIP	1ohm,5%,1/10W,TP,1608	
.....3	2007-002425	R650	1	R-CHIP	1ohm,5%,1/10W,TP,1608	
.....3	2007-002900	R658	1	R-CHIP	11Kohm,1%,1/10W,TP,1608	
.....3	2007-002918	R543	1	R-CHIP	51.1Kohm,1%,1/10W,TP,1608	
.....3	2007-002970	R128	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R129	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R130	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R563	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R564	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R585	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R699	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R700	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R701	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R702	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R703	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R704	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R705	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R706	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R707	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R708	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R709	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R710	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R711	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R712	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R713	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R714	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R715	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R716	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R717	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R718	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R719	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R720	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R721	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R722	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R723	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R724	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R725	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R748	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R749	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R750	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R751	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R752	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R753	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R754	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R755	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R756	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R757	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R758	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R759	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R760	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R761	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R776	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R777	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R778	1	R-CHIP	56ohm,5%,1/16W,TP,1005	

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6. Material List

Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2007-002970	R779	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R780	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R781	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R782	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R783	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R784	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R785	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R786	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R787	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R788	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-007100	R673	1	R-CHIP	10Mohm,5%,1/16W,TP,1005	
.....3	2007-007107	R510	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R528	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R539	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R555	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R567	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R635	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R693	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007108	R569	1	R-CHIP	43.2Kohm,1%,1/16W,TP,1005	
.....3	2007-007132	R654	1	R-CHIP	15Kohm,1%,1/16W,TP,1005	
.....3	2007-007132	R657	1	R-CHIP	15Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R572	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R598	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R697	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R763	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R540	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R544	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R549	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R559	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R574	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R575	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R576	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R580	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R590	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R592	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R593	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R606	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R607	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R608	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R609	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R615	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R617	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R628	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R629	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R653	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R655	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R659	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R666	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R667	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R668	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R670	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R687	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R689	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R690	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R691	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R692	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R696	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R726	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R727	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R736	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R738	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R739	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R741	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	

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Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2007-007142	R743	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R744	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R745	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R762	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R764	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R770	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R771	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R772	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R773	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R774	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007226	R589	1	R-CHIP	49.9ohm,1%,1/10W,TP,1608	
.....3	2007-007237	R556	1	R-CHIP	24.3Kohm,1%,1/10W,TP,1608	
.....3	2007-007306	R505	1	R-CHIP	100ohm,1%,1/16W,TP,1005	
.....3	2007-007306	R506	1	R-CHIP	100ohm,1%,1/16W,TP,1005	
.....3	2007-007306	R507	1	R-CHIP	100ohm,1%,1/16W,TP,1005	
.....3	2007-007306	R508	1	R-CHIP	100ohm,1%,1/16W,TP,1005	
.....3	2007-007306	R512	1	R-CHIP	100ohm,1%,1/16W,TP,1005	
.....3	2007-007306	R588	1	R-CHIP	100ohm,1%,1/16W,TP,1005	
.....3	2007-007306	R634	1	R-CHIP	100ohm,1%,1/16W,TP,1005	
.....3	2007-007306	R674	1	R-CHIP	100ohm,1%,1/16W,TP,1005	
.....3	2007-007306	R746	1	R-CHIP	100ohm,1%,1/16W,TP,1005	
.....3	2007-007306	R767	1	R-CHIP	100ohm,1%,1/16W,TP,1005	
.....3	2007-007306	R834	1	R-CHIP	100ohm,1%,1/16W,TP,1005	
.....3	2007-007307	R599	1	R-CHIP	150ohm,1%,1/16W,TP,1005	
.....3	2007-007307	R600	1	R-CHIP	150ohm,1%,1/16W,TP,1005	
.....3	2007-007307	R601	1	R-CHIP	150ohm,1%,1/16W,TP,1005	
.....3	2007-007311	R645	1	R-CHIP	22Kohm,1%,1/16W,TP,1005	
.....3	2007-007312	R500	1	R-CHIP	20Kohm,1%,1/16W,TP,1005	
.....3	2007-007312	R792	1	R-CHIP	20Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R511	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R526	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R586	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R594	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R621	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R633	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R647	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R737	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R742	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R797	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007334	R537	1	R-CHIP	200Kohm,1%,1/16W,TP,1005	
.....3	2007-007334	R643	1	R-CHIP	200Kohm,1%,1/16W,TP,1005	
.....3	2007-007484	R642	1	R-CHIP	4.64Kohm,1%,1/16W,TP,1005	
.....3	2007-007489	R519	1	R-CHIP	150Kohm,1%,1/16W,TP,1005	
.....3	2007-007489	R529	1	R-CHIP	150Kohm,1%,1/16W,TP,1005	
.....3	2007-007520	R501	1	R-CHIP	20ohm,1%,1/10W,TP,1608	
.....3	2007-007520	R502	1	R-CHIP	20ohm,1%,1/10W,TP,1608	
.....3	2007-007520	R503	1	R-CHIP	20ohm,1%,1/10W,TP,1608	
.....3	2007-007528	R562	1	R-CHIP	1.5Kohm,1%,1/16W,TP,1005	
.....3	2007-007642	R671	1	R-CHIP	12.1ohm,1%,1/16W,TP,1005	
.....3	2007-007642	R676	1	R-CHIP	12.1ohm,1%,1/16W,TP,1005	
.....3	2007-007642	R677	1	R-CHIP	12.1ohm,1%,1/16W,TP,1005	
.....3	2007-007766	R509	1	R-CHIP	2Kohm,1%,1/16W,TP,1005	
.....3	2007-007766	R573	1	R-CHIP	2Kohm,1%,1/16W,TP,1005	
.....3	2007-007766	R584	1	R-CHIP	2Kohm,1%,1/16W,TP,1005	
.....3	2007-007792	R587	1	R-CHIP	221ohm,1%,1/16W,TP,1005	
.....3	2007-007942	R793	1	R-CHIP	1Mohm,1%,1/16W,TP,1005	
.....3	2007-007946	R656	1	R-CHIP	470Kohm,1%,1/16W,TP,1005	
.....3	2007-008007	R672	1	R-CHIP	3.24Kohm,1%,1/10W,TP,1608	
.....3	2007-008015	R603	1	R-CHIP	75ohm,1%,1/16W,TP,1005	
.....3	2007-008015	R604	1	R-CHIP	75ohm,1%,1/16W,TP,1005	
.....3	2007-008015	R605	1	R-CHIP	75ohm,1%,1/16W,TP,1005	
.....3	2007-008148	R566	1	R-CHIP	121Kohm,1%,1/10W,TP,1608	
.....3	2007-008275	R538	1	R-CHIP	30Kohm,1%,1/16W,TP,1005	

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6. Material List

Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2007-008293	R581	1	R-CHIP	475ohm,1%,1/16W,TP,1005	
.....3	2007-008293	R582	1	R-CHIP	475ohm,1%,1/16W,TP,1005	
.....3	2007-008294	R577	1	R-CHIP	33ohm,1%,1/16W,TP,1005	
.....3	2007-008302	R648	1	R-CHIP	80.6ohm,1%,1/16W,TP,1005	
.....3	2007-008302	R649	1	R-CHIP	80.6ohm,1%,1/16W,TP,1005	
.....3	2007-008303	R522	1	R-CHIP	27.4ohm,1%,1/16W,TP,1005	
.....3	2007-008303	R547	1	R-CHIP	27.4ohm,1%,1/16W,TP,1005	
.....3	2007-008304	R627	1	R-CHIP	300Kohm,1%,1/16W,TP,1005	
.....3	2007-008314	R127	1	R-CHIP	54.9ohm,1%,1/16W,TP,1005	
.....3	2007-008314	R520	1	R-CHIP	54.9ohm,1%,1/16W,TP,1005	
.....3	2007-008314	R521	1	R-CHIP	54.9ohm,1%,1/16W,TP,1005	
.....3	2007-008314	R523	1	R-CHIP	54.9ohm,1%,1/16W,TP,1005	
.....3	2007-008314	R524	1	R-CHIP	54.9ohm,1%,1/16W,TP,1005	
.....3	2007-008314	R525	1	R-CHIP	54.9ohm,1%,1/16W,TP,1005	
.....3	2007-008314	R546	1	R-CHIP	54.9ohm,1%,1/16W,TP,1005	
.....3	2007-008330	R766	1	R-CHIP	22.6ohm,1%,1/16W,TP,1005	
.....3	2007-008359	R646	1	R-CHIP	3.01Kohm,1%,1/16W,TP,1005	
.....3	2007-008400	R675	1	R-CHIP	453ohm,1%,1/10W,TP,1608	
.....3	2007-008429	R550	1	R-CHIP	499ohm,1%,1/16W,TP,1005	
.....3	2007-008429	R622	1	R-CHIP	499ohm,1%,1/16W,TP,1005	
.....3	2007-008429	R651	1	R-CHIP	499ohm,1%,1/16W,TP,1005	
.....3	2007-008708	R595	1	R-CHIP	40.2ohm,1%,1/16W,TP,1005	
.....3	2007-008708	R596	1	R-CHIP	40.2ohm,1%,1/16W,TP,1005	
.....3	2007-008714	R504	1	R-CHIP	0.01ohm,1%,1W,TP,6432	
.....3	2007-009768	R641	1	R-CHIP	10.7Kohm,1%,1/16W,TP,1005	
.....3	2203-000233	C699	1	C-CER,CHIP	0.1nF,5%,50V,C0G,TP,1005	
.....3	2203-000278	C612	1	C-CER,CHIP	.01nF,0.5pF,50V,C0G,TP,1005	
.....3	2203-000425	C569	1	C-CER,CHIP	.018nF,5%,50V,C0G,TP,1005	
.....3	2203-000425	C570	1	C-CER,CHIP	.018nF,5%,50V,C0G,TP,1005	
.....3	2203-000438	C611	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C622	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C623	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C669	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C670	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C823	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000489	C560	1	C-CER,CHIP	2.2nF,10%,50V,X7R,TP,1005	
.....3	2203-000489	C564	1	C-CER,CHIP	2.2nF,10%,50V,X7R,TP,1005	
.....3	2203-000489	C565	1	C-CER,CHIP	2.2nF,10%,50V,X7R,TP,1005	
.....3	2203-000575	C541	1	C-CER,CHIP	220nF,10%,25V,X7R,TP,2012	
.....3	2203-000575	C542	1	C-CER,CHIP	220nF,10%,25V,X7R,TP,2012	
.....3	2203-000604	C518	1	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	
.....3	2203-000604	C777	1	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	
.....3	2203-000604	C811	1	C-CER,CHIP	22nF,10%,25V,X7R,TP,1608	
.....3	2203-000627	C634	1	C-CER,CHIP	.022nF,5%,50V,C0G,TP,1005	
.....3	2203-000627	C672	1	C-CER,CHIP	.022nF,5%,50V,C0G,TP,1005	
.....3	2203-000627	C771	1	C-CER,CHIP	.022nF,5%,50V,C0G,TP,1005	
.....3	2203-000654	C514	1	C-CER,CHIP	.27nF,10%,50V,X7R,TP,1005	
.....3	2203-000654	C526	1	C-CER,CHIP	.27nF,10%,50V,X7R,TP,1005	
.....3	2203-000812	C513	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-000812	C525	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-000812	C545	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-000812	C546	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-000812	C547	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-000812	C548	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-000812	C591	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-000812	C592	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-000812	C593	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-000812	C628	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-000812	C629	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-000812	C630	1	C-CER,CHIP	.033nF,5%,50V,C0G,1005	
.....3	2203-001140	C549	1	C-CER,CHIP	68nF,10%,16V,X7R,1608	
.....3	2203-001140	C550	1	C-CER,CHIP	68nF,10%,16V,X7R,1608	
.....3	2203-001201	C739	1	C-CER,CHIP	0.007nF,0.5pF,50V,NP0,TP,1005	

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Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2203-001201	C740	1	C-CER,CHIP	0.007nF,0.5pF,50V,NP0,TP,1005	
.....3	2203-002050	C700	1	C-CER,CHIP	47nF,10%,50V,X7R,1608	
.....3	2203-002494	C608	1	C-CER,CHIP	470nF,10%,16V,X7R,2012	
.....3	2203-002494	C645	1	C-CER,CHIP	470nF,10%,16V,X7R,2012	
.....3	2203-002494	C664	1	C-CER,CHIP	470nF,10%,16V,X7R,2012	
.....3	2203-002711	C529	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002711	C531	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002711	C716	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002711	C721	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002711	C722	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002711	C724	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002720	C502	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C594	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C604	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C627	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C671	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C691	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C692	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C693	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C694	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-005482	C665	1	C-CER,CHIP	100nF,10%,10V,X5R,TP,1005	
.....3	2203-005482	C666	1	C-CER,CHIP	100nF,10%,10V,X5R,TP,1005	
.....3	2203-005509	C553	1	C-CER,CHIP	330nF,+80-20%,10V,Y5V,TP,1005	
.....3	2203-006048	C1	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C124	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C207	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C506	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C508	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C523	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C524	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C527	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C551	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C552	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C554	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C555	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C557	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C558	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C562	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C563	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C567	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C579	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C580	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C584	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C585	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C587	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C590	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C595	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C596	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C597	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C598	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C599	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C600	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C601	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C602	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C603	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C609	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C610	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C614	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C615	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C616	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C617	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C618	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C619	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	

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6. Material List

Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2203-006048	C620	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C621	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C626	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C631	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C632	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C635	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C636	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C637	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C638	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C640	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C643	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C644	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C649	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C650	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C652	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C658	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C662	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C663	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C673	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C682	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C683	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C686	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C688	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C696	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C698	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C702	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C703	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C705	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C717	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C718	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C719	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C726	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C730	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C731	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C734	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C735	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C736	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C738	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C741	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C744	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C746	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C748	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C749	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C750	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C751	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C752	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C753	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C755	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C758	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C761	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C763	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C765	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C767	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C769	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C770	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C773	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C774	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C775	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C776	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C782	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C784	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C786	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C787	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	

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6. Material List

Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2203-006048	C788	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C789	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C792	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C797	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C798	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C799	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C801	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C802	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C803	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C806	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C808	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C813	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C815	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C816	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C818	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C821	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C822	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C825	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C827	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C828	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C836	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C90	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006090	C504	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C515	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C516	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C533	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C534	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C535	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C536	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C537	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C538	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C539	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C540	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C543	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C566	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C572	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C573	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C574	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C575	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C576	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C577	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C578	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C583	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C588	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C589	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C605	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C633	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C648	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C651	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C654	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C655	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C656	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C667	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C668	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C680	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C681	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C687	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C706	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C720	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C728	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C732	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C809	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006166	C503	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	

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Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2203-006166	C519	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C520	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C521	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C522	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C532	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C747	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C829	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C830	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C839	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C842	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006170	C561	1	C-CER,CHIP	220nF,10%,16V,X7R,1608	
.....3	2203-006170	C685	1	C-CER,CHIP	220nF,10%,16V,X7R,1608	
.....3	2203-006170	C690	1	C-CER,CHIP	220nF,10%,16V,X7R,1608	
.....3	2203-006170	C709	1	C-CER,CHIP	220nF,10%,16V,X7R,1608	
.....3	2203-006324	C742	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C743	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C745	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C768	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C791	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C793	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C794	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C795	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C796	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C807	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C814	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C824	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006377	C509	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C511	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C512	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C530	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C715	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C725	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006399	C500	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C528	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C581	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C607	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C625	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C653	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C657	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C659	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C677	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C679	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C729	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C772	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C781	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C812	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C826	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C831	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C845	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006474	C723	1	C-CER,CHIP	22000nF,20%,6.3V,X5R,2012	
.....3	2203-006824	C674	1	C-CER,CHIP	4700nF,10%,10V,X5R,1608	
.....3	2402-001042	EC500	1	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
.....3	2409-001159	EC502	1	C-ORGANIC,SMD	220uF,20%,2.5V,TP,3.5x2.8x1.9mm	
.....3	2603-000099	LT500	1	TRANS-MATCHING	1:1,8mA,8P:8P,12.7x7.11x1.9mm,TP	
.....3	2801-003856	Y501	1	CRYSTAL-SMD	0.032768MHz,20ppm,28-ACP,7pF,65000ohm,TP	
.....3	2801-003856	Y502	1	CRYSTAL-SMD	0.032768MHz,20ppm,28-ACP,7pF,65000ohm,TP	
.....3	3003-001158	MIC500	1	MIC-CONDENSOR	4.5VV,-,-42dB,2.2kOhm	
.....3	3301-001272	B500	1	BEAD-SMD	120ohm,2x1.25x1mm,TR,-,-	
.....3	3301-001272	B501	1	BEAD-SMD	120ohm,2x1.25x1mm,TR,-,-	
.....3	3301-001649	B502	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B503	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B504	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B505	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	

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Level	Code	Assembled	EA	Description	Spec.	Service
.....3	3301-001649	B506	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B507	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B508	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B509	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B510	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B511	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B512	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3404-001311	SW502	1	SWITCH-TACT	12VDC,50mA,100gf,6.0x6.0x5.0mm,SPST	
.....3	3404-001311	SW503	1	SWITCH-TACT	12VDC,50mA,100gf,6.0x6.0x5.0mm,SPST	
.....3	3701-001515	J508	1	CONNECTOR-DSUB	15P,3R,FEMALE,ANGLE,AU	
.....3	3701-001597	J515	1	CONNECTOR-HDMI	19P,2R,FEMALE,ANGLE,Au	
.....3	3708-002166	J512	1	CONNECTOR-FPC/FFC/PIC	25P,1.0mm,SMD-A,AU,Y,FLIP,BOTTOM	
.....3	3708-002402	J513	1	CONNECTOR-FPC/FFC/PIC	6P,1.0mm,SMD-A,SnBi,Y,SLIDE,BOTTOM	
.....3	3708-002582	J518	1	CONNECTOR-FPC/FFC/PIC	12P,0.5mm,SMD-A,Au,Y,FLIP,BOTTOM	
.....3	3710-002498	J505	1	SOCKET-BOARD TO CABLE	30P,2R,1mm,SMD-A,AU,NTR	
.....3	3710-002634	J504	1	SOCKET-INTERFACE	13P,1R,1mm,ANGLE,AU,BLK	
.....3	3710-002830	J509	1	SOCKET-INTERFACE	7P,1R,2.5mm,ANGLE,AU,BLK	
.....3	3711-000556	J507	1	HEADER-BOARD TO CABLE	BOX,12P,1R,1.25mm,SMD-A,SN,WHT	
.....3	3711-000922	J516	1	HEADER-BOARD TO CABLE	BOX,4P,1R,1.25mm,SMD-A,SN,WHT	
.....3	3711-002046	J501	1	HEADER-BOARD TO CABLE	BOX,12P,1R,1.25mm,SMD-S,SN,WHT	
.....3	3711-002049	J510	1	CONNECTOR-HEADER	BOX,6P,1R,1.25mm,SMD-A,SN,WHT	
.....3	3711-007011	J503	1	HEADER-BATTERY	NOWALL,7P,1R,2.5mm,BATTERY TYPE,AU,BLK	
.....3	3711-007097	J506	1	HEADER-BATTERY	NOWALL,7P,1R,2.5mm,DIP,Au,BLK	
.....3	3722-002588	J520	1	JACK-PHONE	6P,AU,BLK,ANGLE	
.....3	3722-002588	J521	1	JACK-PHONE	6P,AU,BLK,ANGLE	
.....3	3722-002767	J519	1	JACK-USB	4P/1C,AU,BLK,ANGLE,A	
.....3	3722-002865	J511	1	JACK-MODULAR	8P/8C,STANDARD,N,SMD-A,GRN/YEL,Au,1PORT	
.....3	3722-002925	J502	1	JACK-USB	4P/2C,AUF,BLK,ANGLE-OFFSET,A,-	
.....3	3722-002997	J500	1	JACK-DC POWER	3P,5.6PI,AUF,BLK	
.....3	4309-001022	J522	1	BATTERY-HOLDER	CELL,PIN,25.4mm,28.45x19.30x4.98mm,TP,1.1g,1.1g	
.....3	BA09-00021A	U504	1	IC MICOM	MEC1308-NU,-,128,3.3V,32.768KHz,Romless,16M,8,VTQFP,TRAY,14mm*14mm*1.0mm,8,0~70,-,0,VTQFP,-	
.....3	BA41-01177A	PCB	1	PCB MAIN	Bremen-UL,FR-4,6L,-,1.1T,w238*L210mm,-,-,-,OSP,GCE,-	
.....3	BA61-01090A	M500	1	SUPPORT-MINICARD	RIMINI,ALLOY,T1.5,W4.5,L1.5mm,NTR,-,-	
.....3	BA61-01090A	M501	1	SUPPORT-MINICARD	RIMINI,ALLOY,T1.5,W4.5,L1.5mm,NTR,-,-	
.....3	BA68-03588A	BIOS REV	1	LABEL-SPI	RIMINI,SEC,paper,-,W4.5,L4mm,white,white,SPI,Revsion,-,-,-	
.....3	BA68-10191W	SMT_SN	1	LABEL-BARCODE	Note PC ALL,-,ARTPAPER,-,W6,L40mm,White,-,PCB-TOP/BOTTOM,Barcode-SMT,-,-,-	
.....3	BA68-40012N	MICOM_REV	1	LABEL-LOCATION	NOTE PC,-,ART PAPER,-,W6.2,L6.2MM,-,-,-,-,-,-,-	
.....3	BA70-00606A	EMI1	1	GASKET-EMI	SANTAFE,BERYLLIUM COPPER,T0.08,BRIGHT TIN,W3.0,-,L2.0*H4.0mm,HV370-HV410	
.....3	BA70-00606A	EMI2	1	GASKET-EMI	SANTAFE,BERYLLIUM COPPER,T0.08,BRIGHT TIN,W3.0,-,L2.0*H4.0mm,HV370-HV410	
.....3	BA81-07945B	SMT1	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT10	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT2	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT5	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT6	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT7	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT8	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT9	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA99-07565A	SMT SUB MATERIAL	1	ASSY SUB/MATERIAL-NP_SMT	N/P,SMT SUB/MATERIAL,RIBBON,SOLVENT,BOND,-	
.....4	0201-000160	PART ADHESIVE	0.001	ADHESIVE-TS	D520,NTR	
.....4	0201-001002	ABLE BOND	0.001	ADHESIVE-TS	8380,SIL,9000CPS,10cc	
.....4	0202-001499	0.6 SMT	1	SOLDER-WIRE FLUX	SR34 SUPER LFM-48,-,D0.6,96.5Sn/3Ag/0.5Cu,Flux_3.5%	
.....4	0202-001520	SOLDER CREAM	6	SOLDER-CREAM	LFM-48X TM-HP,D25-45um,96.5Sn/3Ag/0.5Cu,Flux 12.0%	
.....4	0202-001704	SOLDER CREAM	6	SOLDER-CREAM	NP303-CQS-2-F1,D22-32um,96.5Sn/3Ag/0.5Cu,Flux 11.5%	

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6. Material List

Level	Code	Assembled	EA	Description	Spec.	Service
.....4	0204-000199	METAL MASK SOLVENT	0.001	SOLVENT	SUPANUKE-20,I.P.A,98%	
....2	BA92-06122D	SMT_D	1	ASSY MOTHER BD-SMT_D	BREMEN-UL,PGA,DDR2,-,NT,-,SMT_D,PV/CONFIG1	
.....3	0401-000191	D1	1	DIODE-SWITCHING	MMBD4148,100V,200mA,SOT-23,TP	
.....3	0401-000191	D13	1	DIODE-SWITCHING	MMBD4148,100V,200mA,SOT-23,TP	
.....3	0404-001084	D14	1	DIODE-SCHOTTKY	BAT54A,30V,200mA,SOT-23,TP	
.....3	0404-001084	D5	1	DIODE-SCHOTTKY	BAT54A,30V,200mA,SOT-23,TP	
.....3	0404-001084	D7	1	DIODE-SCHOTTKY	BAT54A,30V,200mA,SOT-23,TP	
.....3	0404-001382	D6	1	DIODE-SCHOTTKY	CRS06,20V,1000mA,3-2A1A,TP	
.....3	0501-000465	Q9	1	TR-SMALL SIGNAL	MMBT3904,NPN,350mW,SOT-23,TP,30-300	
.....3	0505-000280	Q3	1	FET-SILICON	AON6414L,N,30V,30A,0.01ohm,36W,SOIC-8	
.....3	0505-000280	Q4	1	FET-SILICON	AON6414L,N,30V,30A,0.01ohm,36W,SOIC-8	
.....3	0505-001007	Q20	1	FET-SILICON	AO4822AL,N,30V,8.5A,0.016ohm,1.1W,SOIC-8	
.....3	0505-001007	Q25	1	FET-SILICON	AO4822AL,N,30V,8.5A,0.016ohm,1.1W,SOIC-8	
.....3	0505-001007	Q7	1	FET-SILICON	AO4822AL,N,30V,8.5A,0.016ohm,1.1W,SOIC-8	
.....3	0505-001064	Q22	1	FET-SILICON	BSS138,N,50V,0.22A,3.5ohm,0.36W,SOT-23	
.....3	0505-001192	Q1	1	FET-SILICON	SIR164DP,N,30V,50A,-,69W,PowerPAK SO-8	
.....3	0505-001192	Q2	1	FET-SILICON	SIR164DP,N,30V,50A,-,69W,PowerPAK SO-8	
.....3	0505-001844	Q27	1	FET-SILICON	SI4435DDY-T1-GE3,P,-30V,-11.4A,0.024ohm,5W,SO-8	
.....3	0505-001883	Q10	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q12	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q15	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q16	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q17	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q23	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q26	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q29	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q5	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q517	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q6	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-001883	Q8	1	FET-SILICON	RHU002N06,N,60V,200MA,3.3OHM,0.15W,SOT-323	
.....3	0505-002340	Q19	1	FET-SILICON	FDMS9620S,N,30V,16A/18A,0.021/0.013ohm,2.5W,Power56	
.....3	0505-002340	Q21	1	FET-SILICON	FDMS9620S,N,30V,16A/18A,0.021/0.013ohm,2.5W,Power56	
.....3	0505-002386	Q518	1	FET-SILICON	AO3415AL,P,-20V,-4A,0.045ohm,1.5W,SOT-23	
.....3	0505-002595	Q24	1	FET-SILICON	AP2607GY-HF,P,-20V,-4A,0.052ohm,2W,SOT-26	
.....3	0601-002846	LED1	1	LED	SMD(TOP VIEW),WHT,1.6x0.8x0.4mm	
.....3	0801-002628	U1	1	IC-CMOS LOGIC	7SZ08,2-INPUT AND GATE,SC-70,5P,49MIL,SINGLE,TP,CMOS,1.8/5.5V,0V,-40to+85,150mW,0V,20uA,10uA,-	
.....3	0801-002998	U2	1	IC-CMOS LOGIC	74AHCT1G125,Single buffer,SC-70,5P,2x1.25mm,SINGLE,TP,3-STATE,4.5/5.5V,0.44V,-40	
.....3	0801-002998	U3	1	IC-CMOS LOGIC	74AHCT1G125,Single buffer,SC-70,5P,2x1.25mm,SINGLE,TP,3-STATE,4.5/5.5V,0.44V,-40	
.....3	0904-002378	U10	1	IC-I/O CONTROLLER	AF82801IBM,mBGA,676P,31x31mm,100MHz,TR,PLASTIC,3.3V,4.3W,0to+113C,ICH9-M(BASE)	
.....3	0904-002453	U13	1	IC-BUS CONTROLLER	AU6336,QFN,28P,5x5mm,48MHz,TR,Plastic,3.3V,0to+85C,SDHC	
.....3	0904-002484	U7	1	IC-DRAM CONTROLLER	EB88CTGM,FCBGA,1329P,34x34mm,533MHz,TR,PLASTIC,1.05V,12W,0to+105C,GM45	
.....3	1006-001427	U6	1	IC-BUS TRANSCEIVER	PS8101,QFN,48P,7x7mm,TR,PLASTIC,3.3V,0to+70C,916mW,2.4V,HDMI level shifter	
.....3	1203-005867	U4	1	IC-BATTERY	BQ24751BRHDR,QFN,28P,5x5x0.9mm,PLASTIC,8/18.048V,2.26W,-40to+155C,-,3.267/3.333V,TP	
.....3	1203-006049	U15	1	IC-PWM CONTROLLER	APW7141QAITRG,QFN,14P,3.5x3.5mm,-,-0.75V to 5.5V,80W,-40to+85C,-,0.75V,TP	
.....3	1203-006056	U12	1	IC-POSI.ADJUST REG.	APL5930 KAI-TRG,SOP,8P,4.9x3.9mm,PLASTIC,0.8/3.3,3W,-40to+85C,3A,0.8,TR,-	
.....3	1203-006083	U14	1	IC-POSI.ADJUST REG.	APL5336KAITRG,SOP-8P,8P,5x4mm,PLASTIC,-.03to7V,80,-40to+85C,1.5A,-.03to7V,TP,0.9V	
.....3	1205-003156	U5	1	IC-CLOCK GENERATOR	SLG8SP513,QFN,64P,9x9mm,PLASTIC,3.465V,0.825W,0to+70C,-,clock generator	
.....3	1205-003769	U9	1	IC-CODEC	ALC269Q-GR,QFN,48P,7x7mm,PLASTIC,5.25V,-,0to+70C,TR,-	
.....3	1404-001089	TH3	1	THERMISTOR-PTC	0.21ohm,-,-,6Vac,40A,2.2A,TP	
.....3	1404-001152	TH1	1	THERMISTOR-NTC	10KOHM,5%,3380K,1MW/C,TP	
.....3	1404-001152	TH2	1	THERMISTOR-NTC	10KOHM,5%,3380K,1MW/C,TP	
.....3	2007-000043	R833	1	R-CHIP	1Kohm,1%,1/10W,TP,1608	
.....3	2007-000070	R90	1	R-CHIP	0ohm,5%,1/10W,TP,1608	

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6. Material List

Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2007-000141	R11	1	R-CHIP	2.2Kohm,5%,1/16W,TP,1005	
.....3	2007-000141	R12	1	R-CHIP	2.2Kohm,5%,1/16W,TP,1005	
.....3	2007-000141	R155	1	R-CHIP	2.2Kohm,5%,1/16W,TP,1005	
.....3	2007-000141	R24	1	R-CHIP	2.2Kohm,5%,1/16W,TP,1005	
.....3	2007-000141	R30	1	R-CHIP	2.2Kohm,5%,1/16W,TP,1005	
.....3	2007-000141	R35	1	R-CHIP	2.2Kohm,5%,1/16W,TP,1005	
.....3	2007-000141	R36	1	R-CHIP	2.2Kohm,5%,1/16W,TP,1005	
.....3	2007-000141	R64	1	R-CHIP	2.2Kohm,5%,1/16W,TP,1005	
.....3	2007-000141	R65	1	R-CHIP	2.2Kohm,5%,1/16W,TP,1005	
.....3	2007-000141	R68	1	R-CHIP	2.2Kohm,5%,1/16W,TP,1005	
.....3	2007-000173	R158	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000173	R165	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000173	R166	1	R-CHIP	22ohm,5%,1/16W,TP,1005	
.....3	2007-000309	R103	1	R-CHIP	10ohm,5%,1/10W,TP,1608	
.....3	2007-000503	R203	1	R-CHIP	2.2ohm,5%,1/10W,TP,1608	
.....3	2007-000882	R40	1	R-CHIP	4.7ohm,5%,1/10W,TP,1608	
.....3	2007-000939	R181	1	R-CHIP	47Kohm,1%,1/10W,TP,1608	
.....3	2007-001139	R89	1	R-CHIP	7.5Kohm,1%,1/10W,TP,1608	
.....3	2007-001313	R169	1	R-CHIP	330ohm,5%,1/16W,TP,1005	
.....3	2007-002425	R93	1	R-CHIP	1ohm,5%,1/10W,TP,1608	
.....3	2007-002899	R113	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R114	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R135	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R136	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R137	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R138	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R189	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R19	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R190	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R20	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R21	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R22	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R38	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R39	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002899	R41	1	R-CHIP	10ohm,1%,1/10W,TP,1608	
.....3	2007-002970	R139	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-002970	R140	1	R-CHIP	56ohm,5%,1/16W,TP,1005	
.....3	2007-007107	R105	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R111	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R119	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R13	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R14	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R150	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R159	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R182	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R183	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R191	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R194	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R195	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R198	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R814	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007107	R87	1	R-CHIP	100Kohm,1%,1/16W,TP,1005	
.....3	2007-007132	R156	1	R-CHIP	15Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R123	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R141	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R142	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R143	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R6	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R75	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R77	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R79	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R8	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R84	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	

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Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2007-007136	R95	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007136	R96	1	R-CHIP	4.7Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R102	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R104	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R132	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R154	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R157	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R162	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R171	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R172	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R175	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R176	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R177	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R178	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R179	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R180	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R196	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R197	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R202	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R42	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R48	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R52	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R53	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R54	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R56	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R58	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R813	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R94	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R97	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R98	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007142	R99	1	R-CHIP	10Kohm,1%,1/16W,TP,1005	
.....3	2007-007239	R151	1	R-CHIP	31.6Kohm,1%,1/10W,TP,1608	
.....3	2007-007239	R59	1	R-CHIP	31.6Kohm,1%,1/10W,TP,1608	
.....3	2007-007274	R152	1	R-CHIP	27.4Kohm,1%,1/10W,TP,1608	
.....3	2007-007274	R60	1	R-CHIP	27.4Kohm,1%,1/10W,TP,1608	
.....3	2007-007302	R115	1	R-CHIP	24.9ohm,1%,1/10W,TP,1608	
.....3	2007-007302	R116	1	R-CHIP	24.9ohm,1%,1/10W,TP,1608	
.....3	2007-007302	R161	1	R-CHIP	24.9ohm,1%,1/10W,TP,1608	
.....3	2007-007302	R72	1	R-CHIP	24.9ohm,1%,1/10W,TP,1608	
.....3	2007-007307	R25	1	R-CHIP	150ohm,1%,1/16W,TP,1005	
.....3	2007-007307	R26	1	R-CHIP	150ohm,1%,1/16W,TP,1005	
.....3	2007-007307	R27	1	R-CHIP	150ohm,1%,1/16W,TP,1005	
.....3	2007-007312	R147	1	R-CHIP	20Kohm,1%,1/16W,TP,1005	
.....3	2007-007312	R148	1	R-CHIP	20Kohm,1%,1/16W,TP,1005	
.....3	2007-007312	R193	1	R-CHIP	20Kohm,1%,1/16W,TP,1005	
.....3	2007-007312	R88	1	R-CHIP	20Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R122	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R144	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R145	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R16	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R43	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R44	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R45	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R46	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R55	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007318	R80	1	R-CHIP	1Kohm,1%,1/16W,TP,1005	
.....3	2007-007334	R201	1	R-CHIP	200Kohm,1%,1/16W,TP,1005	
.....3	2007-007334	R815	1	R-CHIP	200Kohm,1%,1/16W,TP,1005	
.....3	2007-007352	R106	1	R-CHIP	130Kohm,1%,1/10W,TP,1608	
.....3	2007-007444	R37	1	R-CHIP	5.11Kohm,1%,1/10W,TP,1608	
.....3	2007-007489	R170	1	R-CHIP	150Kohm,1%,1/16W,TP,1005	
.....3	2007-007642	R70	1	R-CHIP	12.1ohm,1%,1/16W,TP,1005	
.....3	2007-007668	R61	1	R-CHIP	68.1Kohm,1%,1/10W,TP,1608	

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6. Material List

Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2007-007697	R71	1	R-CHIP	2.4Kohm,1%,1/16W,TP,1005	
.....3	2007-007839	R51	1	R-CHIP	53.6Kohm,1%,1/10W,TP,1608	
.....3	2007-007937	R200	1	R-CHIP	17.4Kohm,1%,1/10W,TP,1608	
.....3	2007-007946	R23	1	R-CHIP	470Kohm,1%,1/16W,TP,1005	
.....3	2007-008134	R199	1	R-CHIP	12.4Kohm,1%,1/16W,TP,1005	
.....3	2007-008223	R146	1	R-CHIP	39.2Kohm,1%,1/10W,TP,1608	
.....3	2007-008275	R816	1	R-CHIP	30Kohm,1%,1/16W,TP,1005	
.....3	2007-008293	R1	1	R-CHIP	475ohm,1%,1/16W,TP,1005	
.....3	2007-008293	R810	1	R-CHIP	475ohm,1%,1/16W,TP,1005	
.....3	2007-008293	R812	1	R-CHIP	475ohm,1%,1/16W,TP,1005	
.....3	2007-008293	R817	1	R-CHIP	475ohm,1%,1/16W,TP,1005	
.....3	2007-008293	R819	1	R-CHIP	475ohm,1%,1/16W,TP,1005	
.....3	2007-008293	R820	1	R-CHIP	475ohm,1%,1/16W,TP,1005	
.....3	2007-008293	R822	1	R-CHIP	475ohm,1%,1/16W,TP,1005	
.....3	2007-008294	R186	1	R-CHIP	33ohm,1%,1/16W,TP,1005	
.....3	2007-008294	R66	1	R-CHIP	33ohm,1%,1/16W,TP,1005	
.....3	2007-008294	R67	1	R-CHIP	33ohm,1%,1/16W,TP,1005	
.....3	2007-008294	R69	1	R-CHIP	33ohm,1%,1/16W,TP,1005	
.....3	2007-008298	R184	1	R-CHIP	49.9ohm,1%,1/16W,TP,1005	
.....3	2007-008298	R185	1	R-CHIP	49.9ohm,1%,1/16W,TP,1005	
.....3	2007-008298	R187	1	R-CHIP	49.9ohm,1%,1/16W,TP,1005	
.....3	2007-008298	R188	1	R-CHIP	49.9ohm,1%,1/16W,TP,1005	
.....3	2007-008298	R47	1	R-CHIP	49.9ohm,1%,1/16W,TP,1005	
.....3	2007-008304	R118	1	R-CHIP	300Kohm,1%,1/16W,TP,1005	
.....3	2007-008304	R134	1	R-CHIP	300Kohm,1%,1/16W,TP,1005	
.....3	2007-008304	R49	1	R-CHIP	300Kohm,1%,1/16W,TP,1005	
.....3	2007-008304	R50	1	R-CHIP	300Kohm,1%,1/16W,TP,1005	
.....3	2007-008304	R57	1	R-CHIP	300Kohm,1%,1/16W,TP,1005	
.....3	2007-008359	R7	1	R-CHIP	3.01Kohm,1%,1/16W,TP,1005	
.....3	2007-008359	R9	1	R-CHIP	3.01Kohm,1%,1/16W,TP,1005	
.....3	2007-008429	R83	1	R-CHIP	499ohm,1%,1/16W,TP,1005	
.....3	2007-008708	R28	1	R-CHIP	40.2ohm,1%,1/16W,TP,1005	
.....3	2007-008708	R29	1	R-CHIP	40.2ohm,1%,1/16W,TP,1005	
.....3	2007-008714	R10	1	R-CHIP	0.01ohm,1%,1W,TP,6432	
.....3	2203-000233	C138	1	C-CER,CHIP	0.1nF,5%,50V,C0G,TP,1005	
.....3	2203-000233	C153	1	C-CER,CHIP	0.1nF,5%,50V,C0G,TP,1005	
.....3	2203-000233	C154	1	C-CER,CHIP	0.1nF,5%,50V,C0G,TP,1005	
.....3	2203-000233	C156	1	C-CER,CHIP	0.1nF,5%,50V,C0G,TP,1005	
.....3	2203-000233	C157	1	C-CER,CHIP	0.1nF,5%,50V,C0G,TP,1005	
.....3	2203-000233	C235	1	C-CER,CHIP	0.1nF,5%,50V,C0G,TP,1005	
.....3	2203-000233	C62	1	C-CER,CHIP	0.1nF,5%,50V,C0G,TP,1005	
.....3	2203-000278	C74	1	C-CER,CHIP	.01nF,0.5pF,50V,C0G,TP,1005	
.....3	2203-000278	C75	1	C-CER,CHIP	.01nF,0.5pF,50V,C0G,TP,1005	
.....3	2203-000438	C104	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C105	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C106	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C107	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C12	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C129	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C151	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C152	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C185	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C215	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C219	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C23	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C25	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C54	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000438	C7	1	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	
.....3	2203-000627	C211	1	C-CER,CHIP	.022nF,5%,50V,C0G,TP,1005	
.....3	2203-000627	C30	1	C-CER,CHIP	.022nF,5%,50V,C0G,TP,1005	
.....3	2203-000627	C31	1	C-CER,CHIP	.022nF,5%,50V,C0G,TP,1005	
.....3	2203-000627	C32	1	C-CER,CHIP	.022nF,5%,50V,C0G,TP,1005	
.....3	2203-000627	C33	1	C-CER,CHIP	.022nF,5%,50V,C0G,TP,1005	

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Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2203-000627	C34	1	C-CER,CHIP	.022nF,5%,50V,C0G,TP,1005	
.....3	2203-000627	C35	1	C-CER,CHIP	.022nF,5%,50V,C0G,TP,1005	
.....3	2203-001683	C51	1	C-CER,CHIP	0.068nF,5%,50V,NP0,1608	
.....3	2203-002050	C182	1	C-CER,CHIP	47nF,10%,50V,X7R,1608	
.....3	2203-002050	C202	1	C-CER,CHIP	47nF,10%,50V,X7R,1608	
.....3	2203-002050	C225	1	C-CER,CHIP	47nF,10%,50V,X7R,1608	
.....3	2203-002487	C127	1	C-CER,CHIP	4.7nF,10%,25V,X7R,TP,1005	
.....3	2203-002494	C103	1	C-CER,CHIP	470nF,10%,16V,X7R,2012	
.....3	2203-002494	C208	1	C-CER,CHIP	470nF,10%,16V,X7R,2012	
.....3	2203-002494	C69	1	C-CER,CHIP	470nF,10%,16V,X7R,2012	
.....3	2203-002711	C130	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002711	C217	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002711	C228	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002711	C36	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002711	C41	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002711	C56	1	C-CER,CHIP	100nF,10%,25V,X7R,1608	
.....3	2203-002720	C121	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C136	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C177	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C205	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C206	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C220	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C223	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C224	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C236	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C713	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C714	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C92	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-002720	C94	1	C-CER,CHIP	10nF,10%,25V,X7R,TP,1005	
.....3	2203-005509	C837	1	C-CER,CHIP	330nF,+80-20%,10V,Y5V,TP,1005	
.....3	2203-006000	C57	1	C-CER,CHIP	1nF,10%,3000V,X7R,TP,4520	
.....3	2203-006048	C101	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C111	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C115	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C120	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C123	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C125	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C140	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C141	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C145	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C146	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C147	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C148	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C149	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C161	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C168	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C169	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C17	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C170	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C174	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C178	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C186	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C187	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C189	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C19	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C190	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C195	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C196	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C197	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C199	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C2	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C200	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C203	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	

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.....3	2203-006048	C204	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C209	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C213	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C218	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C237	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C4	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C46	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C47	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C58	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C59	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C6	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C60	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C61	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C613	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C72	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C73	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C76	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C77	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C80	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C838	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C84	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C85	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C87	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C89	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C93	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C95	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C98	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006048	C99	1	C-CER,CHIP	100nF,10%,10V,X7R,TP,1005	
.....3	2203-006090	C112	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C113	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C114	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C132	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C133	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C135	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C160	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C171	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C173	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C175	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C179	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C18	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C181	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C229	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C232	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C79	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C83	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006090	C844	1	C-CER,CHIP	10000nF,10%,6.3V,X5R,TP,2012	
.....3	2203-006166	C10	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C100	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C109	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C11	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C116	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C118	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C128	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C150	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C16	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C198	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C22	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C233	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C234	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C238	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C239	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C240	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C241	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	

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6. Material List

Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2203-006166	C242	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C28	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C45	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C48	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C49	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C50	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C63	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C64	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C641	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C642	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C65	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C67	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C68	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C70	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C8	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C82	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C840	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C841	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006166	C9	1	C-CER,CHIP	100nF,10%,25V,X5R,1005	
.....3	2203-006324	C143	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C144	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006324	C66	1	C-CER,CHIP	2200nF,10%,10V,X5R,1608	
.....3	2203-006377	C131	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C139	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C183	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C184	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C216	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C226	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C27	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C29	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C37	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C38	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C39	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C40	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C53	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006377	C843	1	C-CER,CHIP	4700NF,10%,25V,X5R,-,2012	
.....3	2203-006399	C122	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C134	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C162	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C163	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C165	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C166	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C167	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C176	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C180	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C194	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C210	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C221	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006399	C231	1	C-CER,CHIP	1000nF,10%,6.3V,X5R,1005	
.....3	2203-006474	C97	1	C-CER,CHIP	22000nF,20%,6.3V,X5R,2012	
.....3	2203-006824	C193	1	C-CER,CHIP	4700nF,10%,10V,X5R,1608	
.....3	2203-006824	C201	1	C-CER,CHIP	4700nF,10%,10V,X5R,1608	
.....3	2203-006824	C214	1	C-CER,CHIP	4700nF,10%,10V,X5R,1608	
.....3	2203-006824	C71	1	C-CER,CHIP	4700nF,10%,10V,X5R,1608	
.....3	2203-006824	C78	1	C-CER,CHIP	4700nF,10%,10V,X5R,1608	
.....3	2402-001042	EC8	1	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
.....3	2402-001144	EC11	1	C-AL,SMD	68uF,20%,25V,LZ,TP,6.3*5.8mm	
.....3	2402-001144	EC12	1	C-AL,SMD	68uF,20%,25V,LZ,TP,6.3*5.8mm	
.....3	2402-001144	EC16	1	C-AL,SMD	68uF,20%,25V,LZ,TP,6.3*5.8mm	
.....3	2402-001144	EC3	1	C-AL,SMD	68uF,20%,25V,LZ,TP,6.3*5.8mm	
.....3	2402-001144	EC4	1	C-AL,SMD	68uF,20%,25V,LZ,TP,6.3*5.8mm	
.....3	2402-001144	EC5	1	C-AL,SMD	68uF,20%,25V,LZ,TP,6.3*5.8mm	
.....3	2402-001144	EC9	1	C-AL,SMD	68uF,20%,25V,LZ,TP,6.3*5.8mm	

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6. Material List

Level	Code	Assembled	EA	Description	Spec.	Service
.....3	2402-001361	EC1	1	C-AL,SMD	330uF,20%,2V,LR,TP,7.3x4.3x1.9mm	
.....3	2402-001361	EC2	1	C-AL,SMD	330uF,20%,2V,LR,TP,7.3x4.3x1.9mm	
.....3	2402-001361	EC509	1	C-AL,SMD	330uF,20%,2V,LR,TP,7.3x4.3x1.9mm	
.....3	2409-001175	EC14	1	C-ORGANIC,SMD	330uF,20%,6.3V,LR,TP,6.3x5.9mm	
.....3	2409-001175	EC15	1	C-ORGANIC,SMD	330uF,20%,6.3V,LR,TP,6.3x5.9mm	
.....3	2409-001176	EC13	1	C-ORGANIC,SMD	330uF,20%,2.5V,LR,TP,6.3x5.9mm	
.....3	2409-001176	EC17	1	C-ORGANIC,SMD	330uF,20%,2.5V,LR,TP,6.3x5.9mm	
.....3	2703-000156	L7	1	INDUCTOR-SMD	1.8uH,20%,10x10mm	
.....3	2703-002309	L3	1	INDUCTOR-SMD	82nH,5%,1005	
.....3	2703-002309	L4	1	INDUCTOR-SMD	82nH,5%,1005	
.....3	2703-002309	L5	1	INDUCTOR-SMD	82nH,5%,1005	
.....3	2703-002992	L1	1	INDUCTOR-SMD	0.39uH,20%,10x10mm	
.....3	2703-002992	L2	1	INDUCTOR-SMD	0.39uH,20%,10x10mm	
.....3	2703-003232	L10	1	INDUCTOR-SMD	2.2uH,20%,10x10mm	
.....3	2703-003654	L6	1	INDUCTOR-SMD	10uH,20%,10x10mm	
.....3	2703-003695	L8	1	INDUCTOR-SMD	3.9uH,20%,10x10mm	
.....3	2703-003695	L9	1	INDUCTOR-SMD	3.9uH,20%,10x10mm	
.....3	2801-004668	Y1	1	CRYSTAL-SMD	25MHz,50ppm,10pF,50ohm,TP	
.....3	2801-004874	Y500	1	CRYSTAL-SMD	14.31818MHz,50ppm,-,16,40ohm,TP	
.....3	3301-001272	B1	1	BEAD-SMD	120ohm,2x1.25x1mm,TR,-,-	
.....3	3301-001272	B2	1	BEAD-SMD	120ohm,2x1.25x1mm,TR,-,-	
.....3	3301-001649	B15	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B16	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B17	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B18	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B19	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B20	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B21	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B22	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B23	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B24	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B25	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B26	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B3	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B4	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B5	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B6	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B7	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B8	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3301-001649	B9	1	BEAD-SMD	180ohm,1608,TP,226ohm/389MHz	
.....3	3404-001311	SW1	1	SWITCH-TACT	12VDC,50mA,100gf,6.0x6.0x5.0mm,SPST	
.....3	3704-001153	CPU1	1	SOCKET-IC	479P,PGA,AU,1.27mm	
.....3	3709-001492	J4	1	CONNECTOR-CARD SLOT	9P,2.5mm,SMD-A,AU,2 IN 1	
.....3	3709-001498	J3	1	CONNECTOR-CARD EDGE	52P,0.8mm,SMD-A,AU,MINI PCI Express	
.....3	3709-001572	DDR2M1	1	CONNECTOR-CARD EDGE	200P,0.6mm,SMD-A,AU,SODIMM	
.....3	3709-001573	DDR2M2	1	CONNECTOR-CARD EDGE	200P,0.6mm,SMD-A,AU,SODIMM	
.....3	3710-002788	JHDD1	1	SOCKET-INTERFACE	7+15P,1R,1.27mm,SMD-A,AU,BLK	
.....3	3711-000386	J5	1	HEADER-BOARD TO CABLE	BOX,10P,1R,1.25MM,SMD-S,SN,WHT	
.....3	3711-000456	J2	1	HEADER-BOARD TO CABLE	BOX,4P,1R,1.25mm,SMD-S,SN,NTR	
.....3	BA61-01090A	M1	1	SUPPORT-MINICARD	RIMINI,ALLOY,T1.5,W4.5,L1.5mm,NTR,-,-	
.....3	BA81-07945B	SMT11	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT12	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT13	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT14	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT15	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT16	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	
.....3	BA81-07945B	SMT4	1	LEAD-1005	NP,SMT_SHORT,SOLDER-CREAM,0 OHM,-,-,-	

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6. Material List

Level	Code	Assembled	EA	Description	Spec.	Service
..1	BA99-07566A	SUB MATERIAL	1	ASSY SUB/MATERIAL-NP_PBA	N/P,PBA SUB/MATERIAL,WIRE,FLUX,-	

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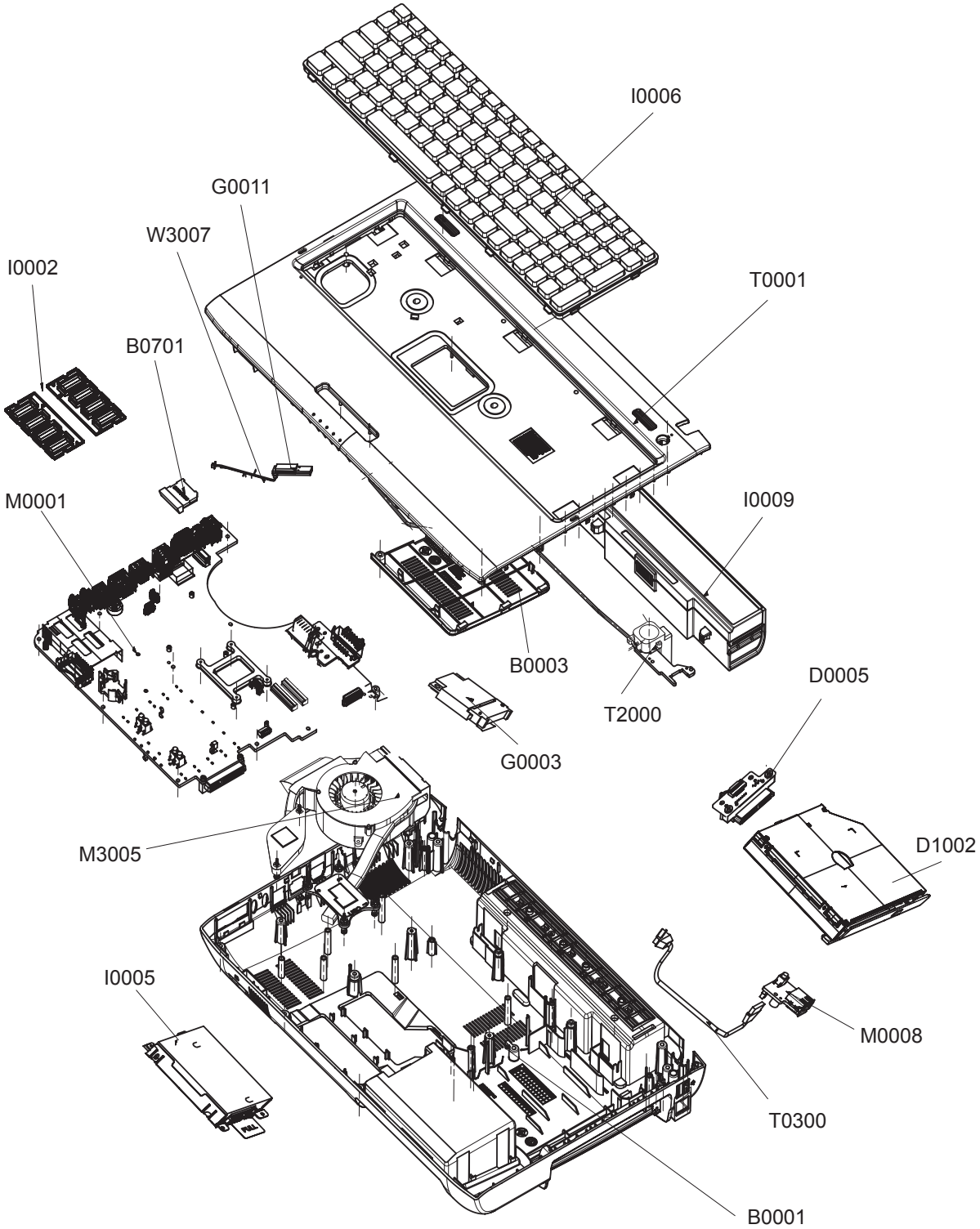
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5. EXPLODED VIEW

SYSTEM

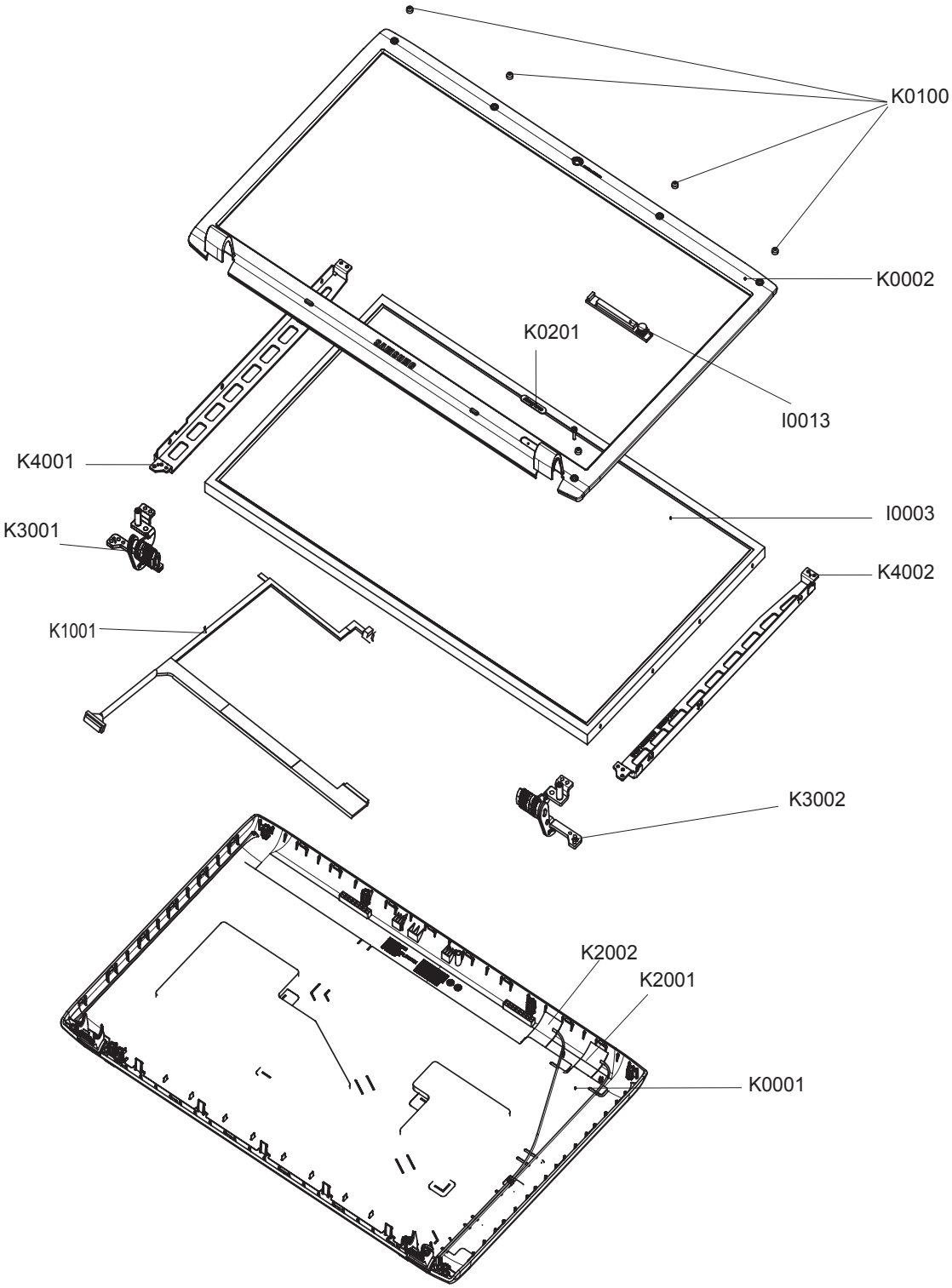


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5. EXPLODED VIEW

ASSY-LCD

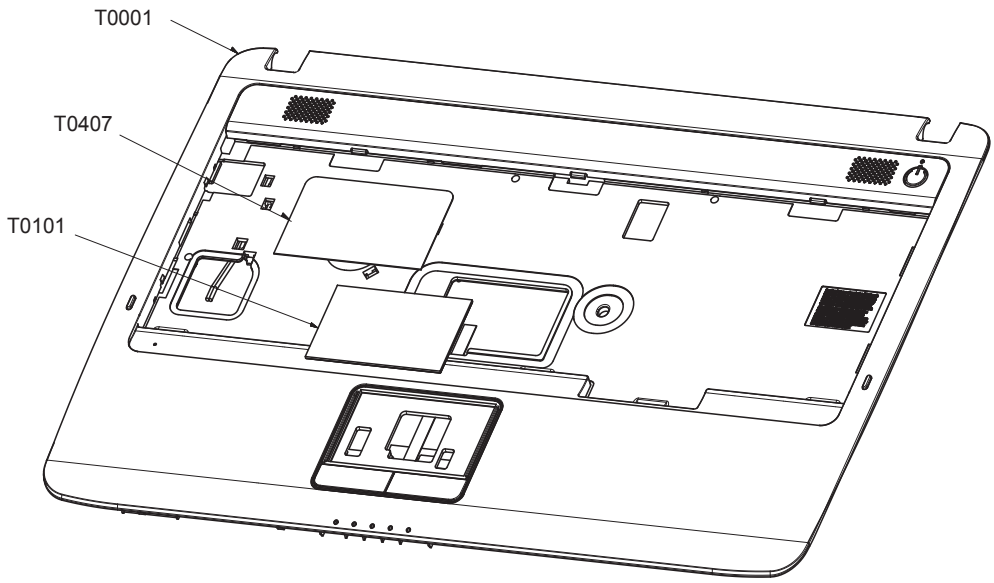


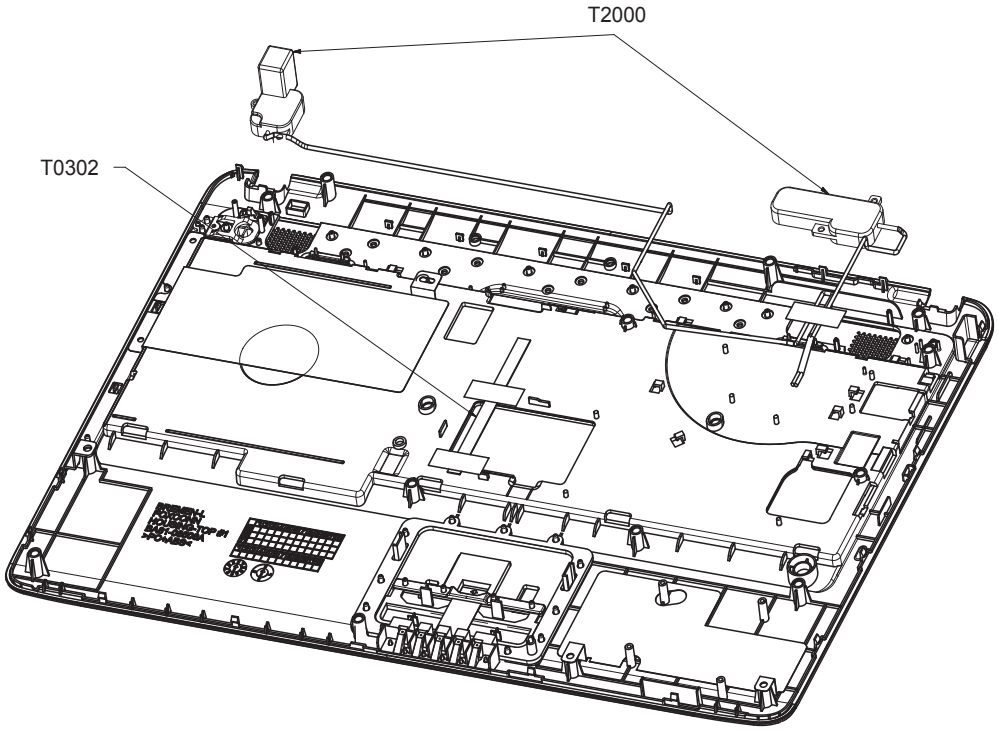
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5. EXPODED VIEW

UNIT-HOSUNG_TOP



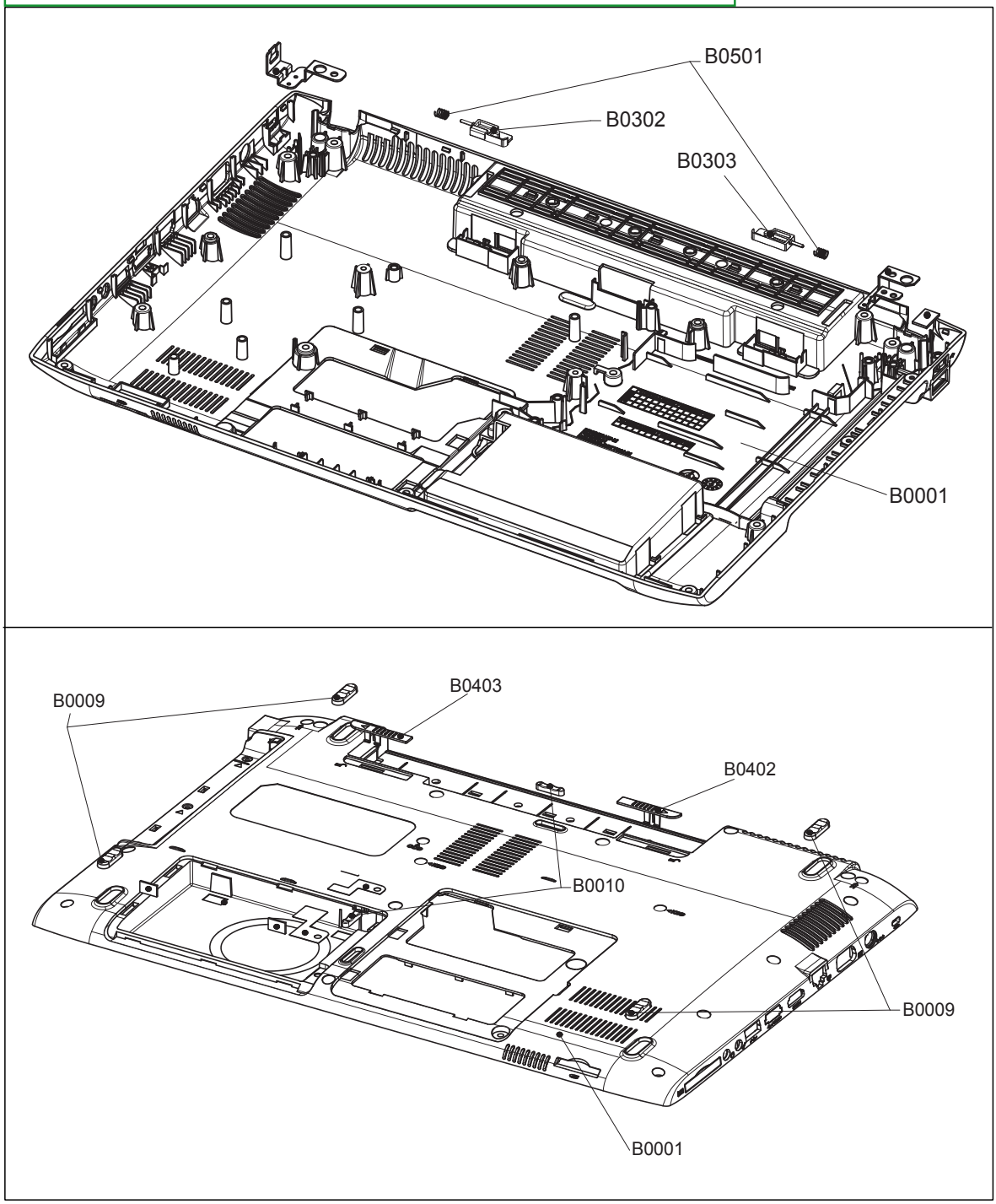


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5. EXPLODED VIEW

UNIT-HOSUNG_BOTTOM

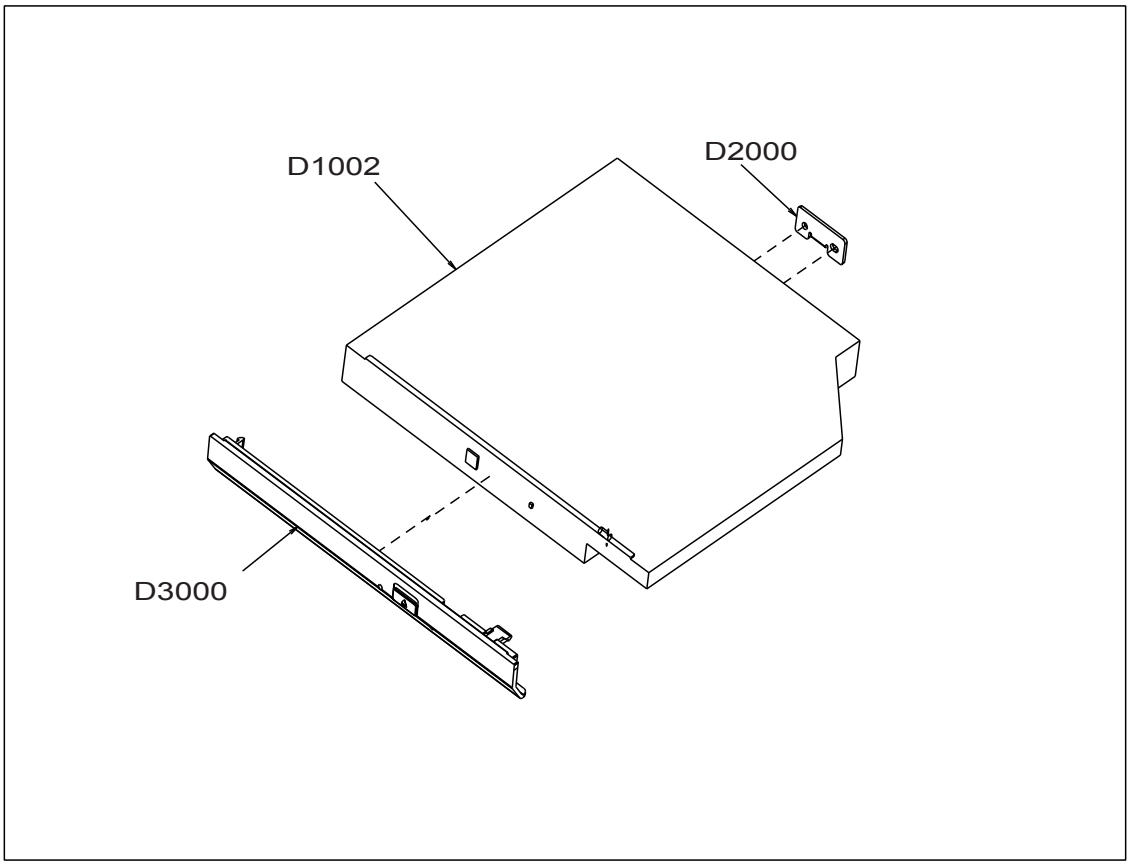


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5. EXPLODED VIEW

Unit-ODD



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Part List : NP-R528-DA03HU

Ver.	Location	Part Number	Part Name & Specification	Q'ty	SA/SNA	Parent Part
0001	A0010	3903-000444	CBF-POWER CORD;DT,EU/KR,CP3,IEC320 C5,25	1	SA	BA99-16006A
0001	A1001	BA46-12340A	S/W CD;UTILITY,Bremen-L/UL,-,1.0,FREEDOS	1	SA	BA99-16006A
0001	B0001	BA75-02374A	UNIT-HOUSING_BOTTOM;BREMEN-15L,SEC,PC/AB	1	SA	NP-R528-DA03HU
0001	B0003	BA81-08518A	DOOR-MEMORY;BREMEN-15L,PC/ABS,W104.9*L11	1	SA	BA97-02997A
0001	B0009	BA81-06960A	RUBBER-FOOT;MIAMI,HS50,L19*W6.5*H3.9mm,S	4	SA	BA75-02374A
0001	B0010	BA81-04694A	RUBBER-FOOT_REAR;TIANJIN,DOMESTIC,BLACK,	2	SA	BA75-02374A
0001	B0100	BA75-02377A	UNIT-DOOR_HDD;BREMEN-15L,SEC,PC/ABS,W122	1	SA	BA97-02997A
0001	B0302	BA81-02795A	LINK-BATTERY_L;QINGDAO,POM,L26.4*W10.8*H	1	SA	BA75-02374A
0001	B0303	BA81-07310A	LINK-BATTERY_R;QINGDAO,DOMESTIC,POM,L26.	1	SA	BA75-02374A
0001	B0402	BA81-06380A	KNOB-BATTERY_L;QINGDAO-D,PC+ABS,T1.2,W34	1	SA	BA75-02374A
0001	B0403	BA81-06381A	KNOB-BATTERY_R;QINGDAO-D,PC+ABS,T1.2,W34	1	SA	BA75-02374A
0001	B0501	BA61-00780A	SPRING ETC-BATT;AQUILA-P,STS304,CD0.3,ID	2	SA	BA75-02374A
0001	B0701	BA61-01212A	DUMMY CARD-SD_3IN1;BREMEN-15L,PC/ABS,T2.	1	SA	BA97-02997A
0001	D0005	BA92-05997A	ASSY BOARD-ODD_SUB;BREMEN-M,ODD I/F BOAR	1	SA	NP-R528-DA03HU
0001	D1002	BA59-02459A	DVD-SUPERMULTI;TS-L633B,8x,150ms,SATA,2M	1	SC	BA96-04448A
0001	D1002	BA59-02571A	DVD-SUPERMULTI;DV-W28S-V90,8X,140ms,SATA	1	SA	BA96-04447A
0001	D1002	BA59-02671A	DVD-SUPERMULTI;TS-L633C,8x,190ms,SATA,2M	1	SA	BA96-04533B
0001	D1002	BA59-02730A	DVD-SUPERMULTI;DS-8A4S,8X,160ms,SATA,2MB	1	SA	BA96-04623A
0001	D1006	BA41-01049A	FFC-ODD;BONN,1.0,Film,12P,T0.3mm,L40*W6.	1	SA	BA92-06338C
0001	D1006	BA41-01095A	FFC-ODD;BONN,1.0,Film,12P,T0.3,L40*W6.5M	1	SA	BA92-06338C
0001	D2000	BA81-04551A	BRACKET-ODD;XIAN,DOMESTIC,SECC,L27*W10.6	1	SA	BA97-02998D
0001	D3000	BA75-02378A	UNIT-BEZEL_DVDSUPERMULTI;BREMEN-15L,PC/A	1	SA	BA97-02998A
0001	D3000	BA75-02378D	UNIT-BEZEL_DVDSUPERMULTI;BREMEN-15L,PC/A	1	SA	BA97-02998D
0001	G0003	BA59-02572A	MODULE-WLAN;AR5B95,WLL6160-D99(ROHS),-,1	1	SA	BA92-06338A
0001	G0003	BA59-02573A	MODULE-WLAN;AR5B95,T77H121.05,-,1x1,Half	1	SA	BA92-06338A
0001	I0001	0902-002508	IC-MICROPROCESSOR;AW80577GG0491MA,2.2GHz	1	SA	NP-R528-DA03HU
0001	I0002	1105-001921	IC-DRAM MODULE;M471B5673DZ1-CF8,DDR3 SDR	1	SA	NP-R528-DA03HU
0001	I0002	1105-001923	IC-DRAM MODULE;M471B2874DZ1-CF8,DDR3 SDR	1	SA	NP-R528-DA03HU
0001	I0002	1105-002055	IC-DRAM MODULE;M471B5673EH1-CF8,DDR3 SDR	1	SA	NP-R528-DA03HU
0001	I0002	1105-002056	IC-DRAM MODULE;M471B2873EH1-CF8,DDR3 SDR	1	SA	NP-R528-DA03HU
0001	I0002	1105-002114	IC-DRAM MODULE;M471B5673FH0-CF8,DDR3 USO	1	SA	NP-R528-DA03HU
0001	I0002	1105-002116	IC-DRAM MODULE;M471B2873FHS-CF8,DDR3 SOD	1	SA	NP-R528-DA03HU
0001	I0003	BA59-02468A	LCD PANEL-15.6HD;N156B6-L06,15.6 Inch HD	1	SA	BA96-04509A
0001	I0003	BA59-02505A	LCD PANEL-156HD;LTN156AT02-C,15.6 HD,LED	1	SA	BA96-04509A
0001	I0003	BA59-02659A	LCD PANEL-156HD;BT156GW01,1366*768,DE,0.	1	SA	BA96-04509A
0001	I0003	BA59-02738A	LCD PANEL-156HD;N156B6-L10,15.6HD,LED,22	1	SA	BA96-04509A
0001	I0005	BA59-02341A	HDD;320G,HTS543232L9A300,S63,H16,D16385,	1	SC	NP-R528-DA03HU
0001	I0005	BA59-02347A	HDD;320G,MHZ2320BH-G2,S63,H16,D16385,9.5	1	SC	NP-R528-DA03HU
0001	I0005	BA59-02355A	HDD;320G,HM320JI,S63,H16,D16385,9.5mm,2.	1	SC	NP-R528-DA03HU
0001	I0005	BA59-02377A	HDD;320G,MK3252GSX,S63,H16,D16385,H9.5mm	1	SC	NP-R528-DA03HU
0001	I0005	BA59-02395A	HDD;320G,WDC-WD3200BEVT-22ZCT0,S63,H16,C	1	SC	NP-R528-DA03HU
0001	I0005	BA59-02455A	HDD;320G,MHZ2320BH-FFS-G2,S63,H16,D16385	1	SA	NP-R528-DA03HU
0001	I0005	BA59-02576A	HDD;320GB,ST9320325AS,S63,H16,C16383,9.5	1	SA	NP-R528-DA03HU
0001	I0005	BA59-02598A	HDD;320G,HTS545032B9A300,S63,H16,D16385,	1	SA	NP-R528-DA03HU
0001	I0005	BA59-02624A	HDD;320G,HM320II,S63,H16,D16385,H9.5mm,2	1	SA	NP-R528-DA03HU
0001	I0005	BA59-02675A	HDD;320GB,MK3263GSX,S63,H16,C16383,9.5mm	1	SA	NP-R528-DA03HU
0001	I0005	BA59-02759A	HDD;320G,HM321HI,S63,H16,D16385,H9.5mm,2	1	SA	NP-R528-DA03HU
0001	I0006	BA59-02833Q	KEYBOARD;BREMEN-2L,101,Membrane,-,HU,-,B	1	SA	NP-R528-DA03HU
0001	I0007	BA44-00242A	ADAPTOR;0335A1960,AD-6019R,19VDC,3.16A,-	1	SA	BA99-16006A

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Part List : NP-R528-DA03HU

Ver.	Location	Part Number	Part Name & Specification	Q'ty	SA/SNA	Parent Part
0001	I0009	BA43-00207A	BATTERY;3UR18650Y-2-SDN-26,BONN,Li-ion,2	1	SA	NP-R528-DA03HU
0001	I0009	BA43-00208A	BATTERY;P32R04-13-H01,BONN,Li-ion,2P3S,4	1	SA	NP-R528-DA03HU
0001	I0013	BA59-02690A	MODULE-CAMERA;SCB-0350M,MC020M-0AA1DU939	1	SA	BA96-04509A
0001	K0001	BA75-02370A	UNIT-HOUSING_LCD-BACK;BREMEN-15L,SEC,IMR	1	SA	BA96-04509A
0001	K0002	BA75-02376A	UNIT-HOUSING_LCD-FRONT;BREMEN-15L,SEC,PC	1	SA	BA96-04509A
0001	K0100	BA81-04180B	RUBBER-FRONT;LYON,TPU,D5.0*H2.1mm,HS90,G	6	SA	BA96-04509A
0001	K0104	BA81-04858A	RUBBER-FRONT;LYON,SILICON RUBBER,GRAY,W2	2	SA	BA75-02376A
0001	K0201	BA68-05528C	LABEL-FRONT_R528;BREMEN-15L,SEC,PC,T0.3,	1	SA	NP-R528-DA03HU
0001	K1001	BA39-00929A	CBF HARNESS-LCD+CAMERA;BREMEN(15),WIRE,-	1	SA	BA96-04509A
0001	K1001	BA39-00932A	CBF HARNESS-LCD+CAMERA;BREMEN(15),WIRE,-	1	SA	BA96-04509A
0001	K1001	BA39-00951A	CBF HARNESS-LCD+CAMERA;BREMEN(15),WIRE,-	1	SA	BA96-04509A
0001	K1006	BA81-09035A	PROTECTOR-LCD_BACK;BREMEN-15L,PET XY53,W	1	SA	NP-R528-DA03HU
0001	K2001	BA42-00216A	ANTENNA-WLAN;81.EHD15.004,Winchester,2.4	1	SA	BA75-02370A
0001	K2002	BA42-00236A	ANTENNA-WLAN;WDAN-M1MM1001-DF,Miami,2.4-	1	SA	BA75-02370A
0001	K3001	BA61-01242A	HINGE-L;BREMEN-15L,SUS,T1.5,W40.7,L28.2m	1	SA	BA96-04509A
0001	K3001	BA81-06418A	HINGE-L;BONN,SUS,T1.5,W40.7*L28.2*T1.4mm	1	SA	BA96-04509A
0001	K3001	BA81-06488A	HINGE-L;BONN,SUS,T1.5,W40.7*L28.2*T1.4mm	1	SA	BA96-04509A
0001	K3002	BA61-01243A	HINGE-R;BREMEN-15L,SUS,T1.5,W40.7,L28.2m	1	SA	BA96-04509A
0001	K3002	BA81-06419A	HINGE-R;BONN,SUS,T1.5,W37.0*L28.0*H22.8m	1	SA	BA96-04509A
0001	K3002	BA81-06489A	HINGE-R;BONN,SUS,T1.5,W37.0*L28.0*H22.8m	1	SA	BA96-04509A
0001	K4001	BA81-06390A	BRACKET-LCD_L;BONN,SECC,T0.8,W233.4*L11.	1	SA	BA96-04509A
0001	K4002	BA81-06391A	BRACKET-LCD_R;BONN,SECC,T0.8,W233.4*L11.	1	SA	BA96-04509A
0001	L1004	BA68-20039A	LABEL-PPID_E;BLADE,-,PET,-,W50.8,L9mm,wh	2	SA	BA99-16006A
0001	L1004	BA68-20039A	LABEL-PPID_E;BLADE,-,PET,-,W50.8,L9mm,wh	1	SA	NP-R528-DA03HU
0001	M0001	BA92-06338A	ASSY MOTHER BD-TOP;BREMEN-UL,PGA,DDR3,GL	1	SA	NP-R528-DA03HU
0001	M0008	BA92-05996A	ASSY BOARD-USB_SUB;BREMEN-M,USB_POWER SW	1	SA	NP-R528-DA03HU
0001	M1004	2203-001683	C-CER,CHIP;0.068nF,5%,50V,NP0,1608	1	SA	BA92-06338D
0001	M1004	2203-005918	C-CER,CHIP;1000nF,10%,6.3V,X7R,1608	8	SA	BA92-06338C
0001	M1004	2203-006000	C-CER,CHIP;1nF,10%,3000V,X7R,TP,4520	1	SA	BA92-06338D
0001	M1009	3711-000456	HEADER-BOARD TO CABLE;BOX,4P,1R,1.25mm,S	1	SA	BA92-06338D
0001	M1010	3710-002788	SOCKET-INTERFACE;7+15P,1R,1.27mm,SMD-A,A	1	SA	BA92-06338D
0001	M1022	0904-002453	IC-BUS CONTROLLER;AU6336,QFN,28P,5x5mm,4	1	SA	BA92-06338D
0001	M1022	1006-001427	IC-BUS TRANSCEIVER;PS8101,QFN,48P,7x7mm,	1	SA	BA92-06338D
0001	M1025	1203-006083	IC-POSI.ADJUST REG.;APL5336KAITRG,SOP-8P	2	SA	BA92-06338D
0001	M1028	3722-002925	JACK-USB;4P/2C,AUF,BLK,ANGLE-OFFSET,A,-	1	SA	BA92-06338C
0001	M1028	3722-002997	JACK-DC POWER;3P,5.6PI,AUF,BLK	1	SA	BA92-06338C
0001	M1028	3722-003036	JACK-MODULAR;8P/8C,STANDARD,N,dip,-,AU,1	1	SA	BA92-06338C
0001	M1033	4301-000108	BATTERY-LI;3V,220mAH,CR2032,20x3.2mm,NO,	1	SC	BA92-06338A
0001	M1033	4301-001070	BATTERY-LI;3V,210mAH,CR2032,20x3.2mm,NO,	1	SA	BA92-06338A
0001	M1049	1205-003904	IC-ETHERNET CONTROLLER;88E8040-A0-NNB2C0	1	SA	BA92-06338C
0001	M1057	1203-005536	IC-PWM CONTROLLER;TPS51117RGYR,QFN,14P,3	1	SA	BA92-06338D
0001	M1057	1203-005735	IC-PWM CONTROLLER;RT8205AGQW,QFN,24P,4x4	1	SA	BA92-06338C
0001	M1057	1203-005849	IC-PWM CONTROLLER;ISL6255AHRZ-T,QFN,28P,	1	SA	BA92-06338D
0001	M1057	1203-005864	IC-PWM CONTROLLER;TPS51620RHAR,QFN,40P,6	1	SA	BA92-06338C
0001	M1059	1205-003913	IC-SWITCH;G546A4P1UF,SOP-8,8P,4.9x6x1.55	1	SA	BA92-06338C
0001	M2001	BA75-01937A	UNIT-BRACKET_CPU;PALAU,SEC,SPCC,W50*L40*	1	SA	BA92-06338A
0001	M3004	BA81-08475A	FAN-CPU;BREMEN-15UL,KSB0705HA-9J58,Plast	1	SA	BA62-00498B
0001	M3004	BA81-08475B	FAN-CPU;BREMEN-15UL,0F81G0000M-1,Plastic	1	SA	BA62-00498B
0001	M3005	BA62-00498A	HEAT SINK-CPU;BREMEN-15UL,AL,14,136,155,	1	SA	NP-R528-DA03HU

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Part List : NP-R528-DA03HU

Ver.	Location	Part Number	Part Name & Specification	Q'ty	SA/SNA	Parent Part
0001	M3005	BA62-00498B	HEAT SINK-CPU;BREMEN-15UL,AL,14,136,155,	1	SA	NP-R528-DA03HU
0001	M9999	0403-001047	DIODE-ZENER;BZX84C12L,5%,225mW,SOT-23,TP	1	SA	BA92-06338D
0001	M9999	0501-000465	TR-SMALL SIGNAL;MMBT3904,NPN,350mW,SOT-2	2	SA	BA92-06338D
0001	M9999	0801-002628	IC-CMOS LOGIC;7SZ08,2-INPUT AND GATE,SC-	1	SA	BA92-06338D
0001	M9999	0904-002378	IC-I/O CONTROLLER;AF82801IBM,mBGA,676P,3	1	SA	BA92-06338D
0001	M9999	0904-002489	IC-DRAM CONTROLLER;AC82GL40,FCBGA,1329P,	1	SA	BA92-06338D
0001	M9999	1205-002596	IC-SWITCH;TPS2062,SOIC,8P,5x6x1.65mm,PLA	1	SA	BA92-06338C
0001	M9999	1205-003156	IC-CLOCK GENERATOR;SLG8SP513,QFN,64P,9x9	1	SA	BA92-06338D
0001	M9999	1205-003159	IC-CLOCK GENERATOR;IDTCV179CNLG,MLF,64P,	1	SA	BA92-06338D
0001	M9999	1205-003533	IC-CLOCK GENERATOR;SL28541BQCT,QFN,64P,9	1	SA	BA92-06338D
0001	M9999	1205-003769	IC-CODEC;ALC269Q-GR,QFN,48P,7x7mm,PLASTI	1	SA	BA92-06338D
0001	M9999	1209-001887	IC-SENSOR;EMC2112-BP-TR,QFN,20P,4x4mm,PL	1	SA	BA92-06338C
0001	M9999	2007-007274	R-CHIP;27.4Kohm,1%,1/10W,TP,1608	1	SA	BA92-06338D
0001	M9999	2203-001201	C-CER,CHIP;0.007nF,0.5pF,50V,NP0,TP,1005	2	SA	BA92-06338C
0001	M9999	2203-002487	C-CER,CHIP;4.7nF,10%,25V,X7R,TP,1005	1	SA	BA92-06338D
0001	M9999	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,TP,1005	62	SA	BA92-06338D
0001	M9999	2203-006090	C-CER,CHIP;10000nF,10%,6.3V,X5R,TP,2012	19	SA	BA92-06338D
0001	M9999	2203-006824	C-CER,CHIP;4700nF,10%,10V,X5R,1608	5	SA	BA92-06338D
0001	M9999	3003-001158	MIC-CONDENSOR;4.5V,-,-42dB,2.2kOhm	1	SA	BA92-06338C
0001	M9999	3404-001311	SWITCH-TACT;12VDC,50mA,100gf,6.0x6.0x5.0	1	SA	BA92-06338D
0001	M9999	3404-001382	SWITCH-TACT;12V,50mA,100gf,6.0x6.0x5.0mm	1	SA	BA92-06338D
0001	M9999	3701-001515	CONNECTOR-DSUB;15P,3R,FEMALE,ANGLE,AU	1	SA	BA92-06338C
0001	M9999	3701-001597	CONNECTOR-HDMI;19P,2R,FEMALE,ANGLE,Au	1	SA	BA92-06338C
0001	M9999	3708-002166	CONNECTOR-FPC/FFC/PIC;25P,1.0mm,SMD-A,AU	1	SA	BA92-06338C
0001	M9999	3708-002402	CONNECTOR-FPC/FFC/PIC;6P,1.0mm,SMD-A,SnB	1	SA	BA92-06338C
0001	M9999	3709-001492	CONNECTOR-CARD SLOT;9P,2.5mm,SMD-A,AU,2	1	SA	BA92-06338D
0001	M9999	3709-001559	CONNECTOR-CARD EDGE;204P,0.6mm,SMD-A,Au,	1	SA	BA92-06338D
0001	M9999	3709-001560	CONNECTOR-CARD EDGE;204P,0.6mm,SMD-A,Au,	1	SA	BA92-06338D
0001	M9999	3710-002634	SOCKET-INTERFACE;13P,1R,1mm,ANGLE,AU,BLK	1	SA	BA92-06338C
0001	M9999	3711-007011	HEADER-BATTERY;NOWALL,7P,1R,2.5mm,BATTER	1	SA	BA92-06338C
0001	M9999	3722-002588	JACK-PHONE;6P,AU,BLK,ANGLE	2	SA	BA92-06338C
0001	M9999	3722-002767	JACK-USB;4P/1C,AU,BLK,ANGLE,A	1	SA	BA92-06338C
0001	R0006	BA75-01944B	UNIT-BRACKET_HDD;BREMEN-15L,SEC,SECC,W71	1	SA	BA97-02997A
0001	T0001	BA75-02371A	UNIT-HOUSING_TOP;BREMEN-15L,SESC,ASSY,W3	1	SA	NP-R528-DA03HU
0001	T0002	BA81-08523A	UNIT-HOUSING_TOP_SVC;BREMEN-15L,SEC,PC/A	1	SA	BA75-02371A
0001	T0005	BA68-03765A	LABEL-LOGO_PENTIUM;NP ALL,-,PC,T0.1,W0.8	1	SA	NP-R528-DA03HU
0001	T0006	BA68-05763A	LABEL-ZAIGEN;BREMEN,ENG(DOS),PET+PP,-,W9	1	SA	NP-R528-DA03HU
0001	T0101	BA59-02411A	BOARD-TOUCHPAD;SAMOA,TM-01020-004,C/M,PC	1	SA	BA75-02371A
0001	T0300	BA39-00845A	CBF HARNESS-USB_SUB-BOARD;CANNES,Wire,UL	1	SA	NP-R528-DA03HU
0001	T0300	BA39-00846A	CBF HARNESS-USB_SUB-BOARD;CANNES,Wire,UL	1	SA	NP-R528-DA03HU
0001	T0302	BA41-01096A	FFC-TOUCHPAD;BONN,1.0,Film,6P,T0.3mm,92*	1	SA	BA75-02371A
0001	T0407	BA81-08515A	INSULATOR-TOUCHPAD;BREMEN-15L,PC,W72.9*L	1	SA	BA75-02371A
0001	T2000	BA96-03966A	ASSY SPEAKER;BONN,-,160/450,RED/BLK,WHT/	1	SA	BA75-02371A
0001	W2004	0203-001869	TAPE-KAPTONE;K-CJ01,T0.06,W10,L33000mm,Y	0	SA	BA92-06338A
0001	W2004	0203-001869	TAPE-KAPTONE;K-CJ01,T0.06,W10,L33000mm,Y	0	SA	NP-R528-DA03HU
0001	W2004	2007-009768	R-CHIP;10.7Kohm,1%,1/16W,TP,1005	1	SA	BA92-06338C
0001	W2004	3708-002582	CONNECTOR-FPC/FFC/PIC;12P,0.5mm,SMD-A,Au	1	SA	BA92-06338D
0001	W2004	BA68-04737A	LABEL-ENERGY_BLANK;R410,-,ART PAPER,T0.0	1	SA	NP-R528-DA03HU
0001	W2004	BA81-05632A	SCREW-MACHINE;SANTORINI,SESC,SWRCH18A 3+	2	SA	BA97-02997A

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Part List : NP-R528-DA03HU

Ver.	Location	Part Number	Part Name & Specification	Q'ty	SA/SNA	Parent Part
0001	W3006	BA39-00946A	CBF HARNESS-USB_SUB-BOARD;CANNES,WIRE,-,	1	SA	NP-R528-DA03HU
0001	W4002	6001-001413	SCREW-MACHINE;CH,+,M2,L5,NI PLT,SWRCH18A	10	SA	BA96-04509A
0001	W4002	6001-001532	SCREW-MACHINE;CH,+,M2,L3,ZPC(BLK),SWRCH1	6	SA	BA96-04509A
0001	W4002	6001-002253	SCREW-MACHINE;CH,+,M2,L6,ZPC(BLK),SWRCH1	4	SA	BA97-02997A

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1. Precautions

1-1. General After-Sales Service Precautions

1. Do not let customers repair the product themselves.
   ➤ There is a danger of injury and the product life time may be shortened.

2. Make sure to disconnect the power cord from the wall outlet before repairing the product (especially for after-sales service of electric parts).
   ➤ There is a danger of electric shock.

3. Do not let customers plug several electric home appliances into a single wall outlet at the same time
   ➤ There is a danger of fire due to overheating.

4. Check if the power plug or wall outlet are damaged in any way.
   ➤ If a defect is found, repair or replace it immediately. (There is a danger of electric shock or fire)

5. Make sure that it is properly grounded. (Check the ground of the wall outlet)
   ➤ Electricity leakage may cause electric shock.

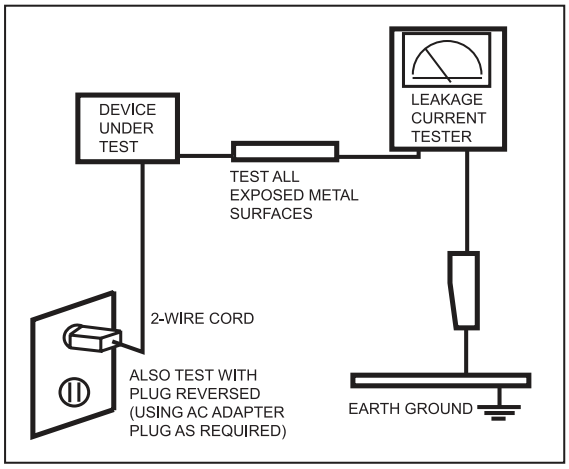


Figure 1-1 Leakage Current Test Circuit

6. Do not spray water on to the product to clean it.
   ➤ There is a danger of electric shock or fire and it may shorten the lifetime of the product.

7. Check the assembly status of the product after the after-sales service.
   ➤ The assembly status of the product must be the same as before the after-sales service.

8. Unplug the power cord holding the power plug (and not the cord).
   ➤ If the cord is disconnected, it may cause electric shock or fire.

9. Repair the product using only authorized parts.

10. Keep the product away from heating devices such as heaters.
    ➤ Exposure to heaters may cause deformation of the product or fire.

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1. Precautions

1-2. Safety Precautions

(1) EMI

This device has been registered regarding EMI for residential use. It can be used in all areas.

(2) Circuit Test (Logic Test) Precautions

The LSI and MSI used in this product are semiconductor integrated circuits based on MOS-FET or CMOS. Since these types of devices are highly susceptible to static electricity or current leakage, an isolation break may be caused. Therefore read and follow the instructions below.

1) When handling an LSI or MSI, make sure your body is grounded through a few mega-ohms of resistance. In addition, wear gloves and a jacket made of cotton and not of synthetic fibers that easily generate static electricity.
2) When repairing the product, place a conductive material (e.g. antistatic mat) grounded to the earth on the worktable.
3) You must use a soldering iron without a leakage current.
4) Do not touch the pin of an IC and carefully insert the IC into the black plastic package.
5) When inserting an IC into a PCB, be careful with the direction of the IC. When installing an IC in the wrong direction, it might become damaged.
6) When carrying an IC, package the IC with conducting material such as antistatic mat or conducting sponge so as to keep the voltage level of each of the terminals the same.
7) Since the storage temperature of an IC is between -20 ~ +70 degrees, keep it at room temperature, if possible.
8) Since the storage temperature of an IC is between -20 ~ +70 degrees, keep it at room temperature, if possible.
9) When soldering an IC, solder it in as short a time as possible so that unnecessary heat is not applied to the device.
10) Avoid leaving excessive amounts of flux within a custom IC or between the pins when soldering a custom IC.
11) Take care to not damage the board when installing or separating an Option Board.
12) Take care to not break the printed circuit pattern on the PCB when separate an IC.

1-3. Ground

The product must be grounded to protect it from static electricity and other dangers. When using a multitap, please use a multitap with a ground terminal only.
If you use a 220V wall outlet with a ground terminal, you do not need to ground it additionally. Avoid using wall outlets if they are not grounded even if they have a ground terminal.
To ground the product, connect the ground to an exclusive ground terminal or metal water pipe. Connect the ground cable to the ground terminal at the rear of the main body. To ground the product, connect the ground terminal of the product to a metal water pipe, wall outlet or exclusive ground terminal with an electric wire equal to or thicker than #18.
Never ground the product to a PVC water pipe, phone line, TV, radio antenna, aluminum window or gas pipe, because this does not actually ground the product and may be dangerous.

1-4. Static Electricity Precautions

Many parts of the system are susceptible to static electricity. Using an electrostatic discharge (ESD) device is very important for the safety of the user and the user's surroundings. Using an ESD device increases the probability of a successful repair and lowers the expenses for damaged parts.

To prevent static electricity, follow the instructions below.

1) Perform the repair in a location without static electricity.
2) Touch your hands to a metal water pipe or some metal object connected to the ground to discharge any static electricity from your body before handling the parts.
3) Touch only the edges of the board, if possible.
4) Do not touch any parts unless absolutely necessary
5) Disassemble the parts on the anti-static-electricity pad.
6) When a board is not installed in the system, package the board with an anti-static-electricity packaging.

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2. Introduction and Specification

2-1. Introduction

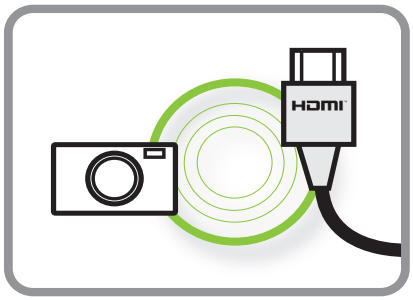
High performance notebook computer

- High performance computer with Intel Core 2 Duo Processor and DDR II Memory (option)
- Wireless LAN



Improvement for multimedia performance

- For Internal Camera (Option),convenient usage of filming and taking pictures
- Convenient connection with TV as HDMI port is provided



Prudent design with consideration of practical usage

- Features a variety of keyboard hotkeys
- Replacing the multi-card slot (optional)
- This exceptional design, luxurious texture



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2. Introduction and Specification

2-2. Specification

Processor and Motherboard	Description
Process & chipset	
Processor	Intel® Core™ 2 Duo Processor T6600 (2.20 GHz, 800 MHz, 2 MB) Intel® Pentium Processor T4400 (2.20GHz, 800MHz, 1MB) Intel® Pentium Processor T4300 (2.10GHz, 800MHz, 1MB) Intel® Celeron Processor T3100 (1.90GHz, 800MHz, 1MB)
Chipset	Intel PM45 + ICH9M (for Core2 Duo, EXT Gfx.) Intel GM45 + ICH9M (for Core2 Duo, INT Gfx.) Intel GL40 + ICH9M (for Pentium, Celeron, INT Gfx.)
Memory	
Memory / Max. Memory	**2GB ~ Max. 4GB**
Memory type	PC2-6400 (800 MHz) DDR2 SODIMM - will be eliminated (TBD) PC3-8500 (1066MHz) DDR3 SODIMM. Depending on model name
Memory Modules	2GB (2G*1) 3GB (1G*1+2G*1) 4GB (2G*2)
Sockets	2-slot SODIMMs
Display	
LCD	**17.3" HD+ (16:9)**
LCD Viewable Area	382.08 (H) x 214.92 (V) (17.3"diagonal)
LCD Resolution	HD+ (1600 x 900) Win7 Support (1600 X 900, 1280 X 768, 1280 X 720, 1152 X 864, 1024 X 768, 1024 X 60, 800 X 600) XP Support (1600 X 900, 1280 X 768, 1280 X 720, 1152 X 864, 1024 X 768, 1024 X 60, 800 X 600)
Pixel Pitch	0.0796 (H) X 0.2388 (V) mm
Viewing angle	40°, 40° /15°, 30°(min)
Color Gamut	60%(typ)
Brightness	220 cd/m2 (5point)/6 mA (typ)
Response time	8ms (typ)
LCD	**15.6" HD (16:9)**
LCD Viewable Area	344.232 (H) x 193.536 (V) (15.6"diagonal)
LCD Resolution	HD (1366 x 768) Win7 Support (1366 X 768, 1280 X 720, 1024 X 768, 800 X 600) XP Support (1366 X 768, 1280 X 720, 1024 X 768, 800 X 600)
Pixel Pitch	0.252 (H) X 0.252 (V) mm
Viewing angle	40°, 40° /15°, 30°(min)
Color Gamut	60%(typ)
Brightness	220 cd/m2 (5point)/6 mA (typ)
Response time	8ms (typ)
Max.Resolution for LFP LVDS	Up to 1,920x1,200 at 60Hz refresh rate
Max.Resolution for External Monitor	2048 x 1536 x 32Bits color@85Hz
VGA	2048 x 1536 x 32Bits color@85Hz
Controls	Keyboard Brightness Control
Camera	Support

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Processor and Motherboard	Description
Graphics	
Graphics 1	**Intel® GM45 Express chipset (Intel GMA 4500MHD)**
Video Memory	Intel® DVMT 5.0 (Max 384 MB)
GPU TDP	12W
Max.Resolution for LFP LVDS	1280 x 800 x 32Bits color (WXGA)
Max.Resolution for External Monitor	2048 x 1536 @ 32bps (CRT)
Max.resolution for VGA	MAX:2,048x1,536 Support resolution:640x480, 800x600, 1024x768, 1152x864, 1280x800, 1280x960, 1280x1024, 1400x1050, 1440x900, 1600x1024, 1600x1200, 1680x1050, 1920x1200, 1920x1440, 2048x1536
Max.resolution for HDMI	MAX:1080p Support resolution:480p, 720p, 1080i, 1080p Support v1.3 compliant
- VGA	2,048 x 1,536
- HDMI	1080p. Support 1.3
Controls	Keyboard Brightness Control
Camera	Support
Graphics 2	nVidia GeForce 310M
Graphic Chipset	nVidia N11M-GE1 (23x23mm)
Video Memory	1GB GDDR3
GPU TDP	14W
Max.Resolution for LFP LVDS	dual link resolutionof 1920x1200 per link
Max.Resolution for External Monitor	2048x1536 at 85Hz
Max.resolution for VGA	MAX:2,048x1,536 Support resolution:640x480, 800x600, 1024x768, 1152x864, 1280x800, 1280x960, 1280x1024, 1400x1050, 1440x900, 1600x1024, 1600x1200, 1680x1050, 1920x1200, 1920x1440, 2048x1536
Max.resolution for HDMI	MAX:1080p Support resolution:480p, 720p, 1080i, 1080p Support v1.3a compliant
- VGA	2048x1536 at 85Hz
- HDMI	Support 1.3a
Controls	Keyboard Brightness Control
Audio	
Sound	
Codec	**REALTEK**
Chipset	ALC269Q-GR
Conversion	Built-in high performance 24 bit ADC & 24 bit DAC
Sound effect	SRS sound effect
Internal interfaces	Embedded Class-D speakers & integrated stero microphone
Speaker power rating	2 speakers x 1.5W with enclosure (15.6") 2 speakers x 2W with enclosure (17.3")
External interfaces	Headphone-out, microphone-in
Controls	Keyboard volume control
Microphone	
Type	**1 integrated mono microphone**
Sensitivity	-42±3 dB
Output impedance	Max. 2,200 Ohm

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Processor and Motherboard	Description
Noise Reduction	NA
Storage	
Hard disk drive	**9.5mmH 2.5" HDD, Removable**
support	SMART UltraDMA-33/66/100 support, SATA host controller support 48bit LBA Support SATA2
Average Access Time	13m sec.
Speed	5400rpm,SATA
Capacity	250GB / 320GB/ 500GB: Hitachi, Samsung, Fujitsu, Seagate, WD
Optical Disk Drive	
DVD-ROM 1	
Vendor	TSST TS-L333A
Type	12.7 mm, S-ATA, Fixed type
Speed	8x DVD-ROM, 24x CD
Average access time	DVD 150ms Typ, CD 130ms Typ
Weight	165g or less
Software supplied	Cyberlink DVD Suite
Security	RPC-II Regional Encoding
DVD-ROM 2	
Vendor	TEAC DV-28S-V
Type	12.7 mm, S-ATA, Fixed type
Speed	8x DVD-ROM, 24x CD
Average access time	DVD 140ms Typ, CD 130ms Typ
Weight	176g or less
Software supplied	Cyberlink DVD Suite
Security	RPC-II Regional Encoding
Super multi dual layer 1	
Vendor	TSST TS-L633A
Type	12.7 mm, S-ATA, Fixed type
Speed	5x DVD-RAM, 8x DVD±R, 6x DVD±R DL, 8x DVD+RW, 6x DVD-RW, 24x CD-R/RW, 8x DVD, 24x CD
Average access time	DVD 130ms Typ., CD 130ms Typ.
Weight	165g or less
Software supplied	Cyberlink DVD Suite
Security	RPC-II Regional Encoding
Super multi dual layer 2	
Vendor	TEAC DV-W28S-R90
Type	12.7 mm, S-ATA, Fixed type
Speed	5x DVD-RAM, 8x DVD±R, 6x DVD±R DL, 8x DVD+RW, 6x DVD-RW, 24x CD-R/RW, 8x DVD, 24x CD
Average access time	DVD 150ms Typ., CD 140ms Typ.
Weight	180g or less
Software supplied	Cyberlink DVD Suite
Security	RPC-II Regional Encoding

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Processor and Motherboard	Description
Network Communication	
Fax / Modem	**N/A**
Type	
Chipset	
Interface	
LAN	
Type	**10/100 Ethernet**
Chipset	Marvell 88E8040
Interface	RJ45 Output
Wireless LAN 1	
Type	**Atheros 802.11bgn compliant**
Interface	Half Mini card type
Chipset	Atheros AR5B95
Antenna	2 integrated
Feature	W30 x L26.8 x H4.75mm
Bluetooth	**N/A**
Type	
Interface	
Chipset	
HSPA	**N/A**
Ports and interfaces (Input / output)	
PC card slot 1	**N/A**
Type	
Chipset	
Support	
Memory card slot	**AU6336**
Type	**3-in-1 Multi Memory Card Slot**
Support	SD / SDHC / MMC
Dock port	**No**
Type	
Model Code	
Feature	
Input / output ports	
VGA	Yes (15 pin)
S-Video (TV-out)	No
HDMI	Yes
Headphone-out	Yes
Microphone-in	Yes
Internal microphone	Yes
USB	3 x USB 2.0
Chargeable USB	No
e-SATA	No
SIO	No
IEEE1394	No

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2. Introduction and Specification

Processor and Motherboard	Description
RJ11 (Modem)	No
RJ45 (LAN)	Yes
TV antenna	No
DC-In (power port)	Yes (5 pie)
Input Devices	
Keyboard	Yes (Isolation Type)
- Amount of keys	100 (KOR, RUS, UKR, US) 101 (UK, FR, DE, SP, IT)
- Feature	Travel length 2.6 mm, key pitch 19.05 mm
- Silver Nano Technology	No
- Fast function keys	F7 (Samsung Support Center), F8 (SpeedUp Manager)
Touchpad	Synaptics touchpad (plat type with scroll area)
Button	Power On
LED indicator	Power, AC-in/Battery, Caps-Lock, HDD, Wireless LAN On/Off
Multimedia	
Integrated digital camera 1	
Type	**0.3M Web-Cam (F.option)**
Chipset	SCB-0350N (MCNEX)
Image sensor	Color CMOS VGA (0.3 Mpixel)
SCAN mode	Progressive
Still image capture resolution	Max. VGA (640 x 480)
Video capture resolution	Max. VGA (640 x 480)
Digital video capture speed	Max. 30 frame , USB 2.0 High speed
Focus	Min.30cm ~ infinity
Interface	USB 2.0
UVC support	Supported
Power and Power Management	
System power management	
Power management features	ACPI 1.0b support, standby (S3), hibernate (S4)
Standard battery 1	
Model code	AA-PB9NS6B - **Bundle in Box**
Details of cell	**6 cells**
Battery capacity	**4,000 mAh**
Voltage	11.1 Vdc
Battery rating	44.4 Wh
Color	Black
Dimension	204 x 48.05 x 21.4 mm
Weight	350 g (max)
Recharge time	3 hours to 100% with Windows on & off
Battery life (DVD play mode)	**Max. 2.5 hours(Int. GFX)**
- Test program	PowerDVD(Max Battery Mode)
- Test condition	Samsung Optimized, LCD Brightness-Level 3or 4(close to 60nits), WLAN R/F Off, discharged by 3%
Battery life (Bench mark mode)	**Max. 4.4 hours(Int. GFX)**

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2. Introduction and Specification

Processor and Motherboard	Description
- Test program	BatteryMark v.4.0.1
- Test condition	Samsung Optimized, LCD Brightness-Minimum, WLAN R/F Off, discharged by 3% T4400(2.2GHz), DDR2 2GB, 15.6" HD(LED), Intel GL40, 250GB, DVD-Multi, Win7(ENG)
Standard battery 2	
Model code	AA-PB9NC6B - **Optional Sales**
Details of cell	**6 cells**
Battery capacity	**4,400 mAh**
Voltage	11.1 Vdc
Battery rating	48.8 Wh
Color	Black
Dimension	204 x 48.05 x 21.4 mm
Weight	350 g (max)
Recharge time	3 hours to 100% with Windows on & off
Battery life (DVD play mode)	**Max. 2.7 hours(Int. GFX)**
- Test program	PowerDVD(Max Battery Mode)
- Test condition	Samsung Optimized, LCD Brightness-Level 3or 4(close to 60nits), WLAN R/F Off, discharged by 3%
Battery life (Bench mark mode)	**Max. 4.8 hours(Int. GFX)**
- Test program	BatteryMark v.4.0.1
- Test condition	Samsung Optimized, LCD Brightness-Minimum, WLAN R/F Off, discharged by 3% T4400(2.2GHz), DDR2 2GB, 15.6" HD(LED), Intel GL40, 250GB, DVD-Multi, Win7(ENG)
Standard battery 3	
Model code	AA-PB9NC6W - **Optional Sales**
Details of cell	**6 cells**
Battery capacity	**5,200 mAh (Optional Sales)**
Voltage	11.1 Vdc
Battery rating	57.7 Wh
Color	Black
Dimension	204 x 48.05 x 21.4 mm
Weight	350 g (max)
Recharge time	3 hours to 100% with Windows on & off
Battery life (DVD play mode)	**Max. 3.2 hours(Int. GFX)**
- Test program	PowerDVD(Max Battery Mode)
- Test condition	Samsung Optimized, LCD Brightness-Level 3or 4(close to 60nits), WLAN R/F Off, discharged by 3%
Battery life (Bench mark mode)	**Max. 5.7 hours(Int. GFX)**
- Test program	BatteryMark v.4.0.1
- Test condition	Samsung Optimized, LCD Brightness-Minimum, WLAN R/F Off, discharged by 3% T4400(2.2GHz), DDR2 2GB, 15.6" HD(LED), Intel GL40, 250GB, DVD-Multi, Win7(ENG)
AC Adapter 1	
Model Code	SPA-P30
Output Power	**60 W**
Dimension	107 x 47 x 30 mm (3pin)
Weight (AC Adapter)	295 g (typ)
Worldwide Compatibility	Auto-sensing 100 - 240 VAC

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Processor and Motherboard	Description
Line Frequency	50 Hz / 60Hz
Adapter Rating - Input	100 VAC ~ 240 VAC, 1.7A
Adapter Rating - Output	19.0 VDC, 3.16 A
System Dimensions	
Dimensions (W X D X H)	379.8 x 255.5 x 29.9 ~36.2mm (15.6") 411.4 x 272.8 x 32~ 39.8mm (17.3")
Weight	2.5kg (15.6") 2.84kg (17.3")
Condition	Combo , 6cell battery, 2.5" 250GB HDD
Package Dimensions (W X D X H)	424 x 106 x 397 mm 16.7 x 4.2 x 15.6 inch
Package Weight	3.9 kg 8.6 lb
Condition	Combo , 6cell battery, 2.5" 250GB HDD with Bundle items
Materials	PC/ABS Vo
Installed software	
Operating system	Genuine Windows7® Home Premium Genuine Windows7® Home Basic Genuine Windows Vista® Home Basic DOS (R528)
Software	Samsung Support Center, Samsung Recovery Solution IV, McAfee Internet Security (EXP, 60days), McAfee Virus Scan (KOR, 1year) Easy Display Manager, Easy Battery Manager, Easy Network Manager, Easy SpeedUp Manager, Samsung Update Plus, AnyPC Samsung Wall Paper, Samsung Screen Saver, Adobe Acrobat Reader, Microsoft Office Ready (KOR), Microsoft Office Trial (EXP) Microsoft Works (EXP), Windows Live Essentials, Google Tool Bar (KOR), Google ToolBar & Google Start page (EXP), PC-PC Cyberlink DVD Suite, Cyberlink Youcam, FailSafe, Battery Life Extender

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2. Introduction and Specification

2-3. Comparing product specifications

Model	R530 / R730	R720	R520/R522	
B/B Cost	$105.66	$142.68	$117.28	
Processor	MontevinaPenryn	MontevinaPenryn	MontevinaPenryn	
Chipset	GL40,GM45,PM45	PM45	PM45	GM45
Memory	DDR2(800MHz), DDR3(1066MHz)	DDR2 800MHz	DDR2 800MHz	
LCD	15.6" HD LED Backlit / 17.3" HD+ LED LCD	17.3" HD+ LED LCD	15.6" HD LED Backlit / CCFL	
Gfx.	GMA4500MHD, nVidia N11M-GE1	ATI Radeon HD4330 512MB ATI Radeon HD4650 1GB	M961GB M92 512MB	GMA4500MHD (Shared)
HDD	250GB ~ 500GB (SATA 5400rpm)	320GB / 500GB (SATA 5400rpm)	250GB ~ 500GB (SATA 5400rpm)	
ODD	Super Multi DL	Super Multi DL	Super Multi DL,BR	Super Multi DL
LAN	Gigabit	Gigabit	Gigabit	
WLAN	abg/n (1x2),bg/n	abg/n (1x2), bg/n	abg/n (1x2),bg/n	
BT	Bluetoothv.2.1+EDR*	Bluetooth v.2.1+EDR*	Bluetoothv.2.1+EDR*	
SW	PC-PC, PC-Phone			
I/OPort	3 USB, 3-in-1, HDMI	4 USB (e-SATA, Chargeable) Express Card (54mm), 3-in-1, HDMI	4 USB (e-SATA, Chargeable) Express Card (54mm), 3-in- 1,HDMI	
Cam	1.3M Web-Cam	1.3M Web-Cam	1.3M Web-Cam	
Battery	6 Cell (4000mAh)	6 Cell (4400mAh)	6 Cell (4400mAh)	6 Cell (4000mAh)
Keyboard	Numeric KBD (Island)	Normal Keyboard (Isolation)	Normal Keyboard (Isolation)	

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2. Introduction and Specification

2-4. Comparing product specifications jatasa

2-4-1. 15.6" Compare Products(MID)

Model	HP	Samsung	Toshiba
	DV6	R522	L500
MODEL			
Price	€699	€689	€699
API	106.0	100	101.5
CPU	T4200	T6400	T6500
LCD	15.6" HD	15.6" HD	15.6" HD
RAM	4GB	4GB	4GB
HDD	500GB	500GB	400GB
ODD	Super Multi	Super Multi	Super Multi
BT	No BT	No BT	BT
GFX	HD4650 1GB	HD4650 1GB	HD4650 1GB
OS	Vista Premium	Vista Premium	Vista Premium

2-4-2. 15.6" Compare Products(LOW)

Model	HP	Samsung	Toshiba
	610	R519	A300
MODEL			
Price	€499	€499	€499
API	102.1	100	99.6
CPU	T5870	T4200	T4200
LCD	15.6" HD	15.6" HD	15.4" WXGA
RAM	4GB	4GB	3GB
HDD	320GB	320GB	320GB
ODD	Super Multi	Super Multi	Super Multi
BT	No BT	No BT	No BT
GFX	Shared	Shared	HD3470 256M
OS	Vista Basic	Vista Premium	Vista Premium

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2. Introduction and Specification

2-4-3. 17" Mid Compare Products

Model	HP	Company	Toshiba
	DV7	R720	L550
MODEL			
Price	€799	€799	€799
API	106.5	100	95.8
Design	IMR	UV하이그로시	IMR
CPU	T6500	P7350	P8700
MEM	DDR2 4G	DDR2 4G	DDR2 4G
GFX	HD4650 1GB	HD4650 1GB	HD4650 1GB
HDD	320GB	500GB	320GB
ODD	SuperMulti	SuperMulti	SuperMulti

2-4-4. Multi17" Low Compare Products

Model	HP	Company	Toshiba
	CQ71	R719	X73SL
MODEL			
Price	€559	€577	€569
API	100.1	100	98.5
Design	UV하이그로시	Spray	Spray
CPU	T3400	T4200	T3400
MEM	DDR2 3G	DDR2 4G	DDR2 4G
GFX	Int	Int	GF9300M 512MB
HDD	250GB	500GB	320GB
ODD	SuperMulti	SuperMulti	SuperMulti

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2. Introduction and Specification

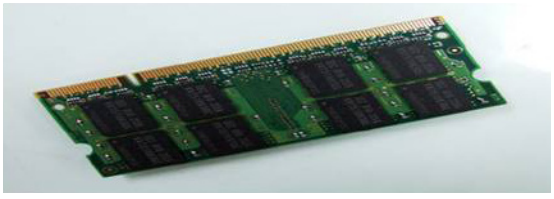
2-5. Option Material List

BATTERY		
		
BA43-00199A	P32R05-24-H01,BONN,Li-ion,2P3S,4400mA,Cylindrical,12.59V,-,11.1V,0 to 60C,3500mA,204*67*21.38mm	Li Ion 6Cell (4400mAh, Black2)
BA43-00198A	3UR18650F-2-SDN-22,MIAMI,Li-ion,2P3S,4400mA,Cylindrical,12.59V,-,11.1V,0 to 60C,3500mA,204*67*21.38mm	Li Ion 6Cell (4400mAh, Black2)
BLUE TOOTH		
		
BA59-01691C	Bluetooth V2.1,T77H114.04,Bluetooth Module,USB I/F,Class 2 RF,V2.1,-,-,6.5*30*3.61mm	Bluetooth 2.1
BA59-02667A	Bluetooth V2.1,BTU1040-D99(ROHS-HF),Bluetooth Module,USB I/F,Class 2 RF,V2.1,	Bluetooth 2.1
CPU		
		
0902-002533	CP80617004122AG,2.13GHz,PGA988A,988P,TR,PLASTIC,1.05V,35W,0to+105C,3MB,Arrandale i3-330M,DDR3-1066	Intel Core i3 330M
0902-002534	CP80617004161AD,2.26GHz,PGA988A,988P,TR,PLASTIC,1.05V,35W,0to+105C,3MB,Arrandale i5-430M,DDR3-1066	Intel Core i5 430M
0902-002536	CP80617004119AE,2.40GHz,PGA988A,988P,TR,PLASTIC,1.05V,35W,0to+105C,3MB,Arrandale i5-520M,DDR3-1066	Intel Core i5 520M
HDD		
		
BA59-02599A	HDD ; 250G,HTS545025B9A300,S63,H16,D16385,9.5mm,2.5INCH,SATA,250G/P,5400RPM,FDB	250GB (5.4KR SATA)
BA59-02623A	HDD ; 250G,HM250HI,S63,H16,D16385,H9.5mm,2.5INCH,SATA,250G/P,5400RPM,FDB	250GB (5.4KR SATA)
BA59-02474A	HDD ; 250G,ST9250315AS,S63,H16,016385,9.5mm,2.5inch,SATA,250G/P,5400RPM,FDB	250GB (5.4KR SATA)
BA59-02646A	HDD ; 250GB,MK2555GSX,S63,H16,C16383,9.5mm,2.5Inch,SATA,5400RPM,250GB/P,FDB	250GB (5.4KR SATA)

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BA59-02598A	HDD ; 320G,HTS545032B9A300,S63,H16,D16385,9.5mm,2.5INCH,SATA,250G/P,5400RPM,FDB	320GB (5.4KR SATA)
BA59-02576A	HDD ; 320GB,ST9320325AS,S63,H16,C16383,9.5mm,2.5inch,SATA,250GB/P,5400RPM,FDB	320GB (5.4KR SATA)
BA59-02624A	HDD ; 320G,HM320II,S63,H16,D16385,H9.5mm,2.5INCH,SATA,250G/P,5400RPM,FDB	320GB (5.4KR SATA)
BA59-02675A	HDD ; 320GB,MK3263GSX,S63,H16,C16383,9.5mm,2.5inch,SATA,5400RPM,250G/P,FDB	320GB (5.4KR SATA)
BA59-02473A	HDD ; 500G,ST9500325AS,S63,H16,016385,9.5mm,2.5inch,SATA,250G/P,5400RPM,FDB	500GB (5.4KR SATA)
BA59-02625A	HDD ; 500G,HM500JI,S63,H16,D16385,H9.5mm,2.5INCH,SATA,250G/P,5400RPM,FDB	500GB (5.4KR SATA)
BA59-02597A	HDD ; 500G,HTS545050B9A300,S63,H16,D16385,9.5mm,2.5INCH,SATA,250G/P,5400RPM,FDB	500GB (5.4KR SATA)
BA59-02645A	HDD ; 500GB,MK5055GSX,S63,H16,C16383,9.5mm,2.5Inch,SATA,5400RPM,250GB/P,FDB	500GB (5.4KR SATA)
LCD		
		
BA59-02468A	N156B6-L06,15.6 Inch HD,DE,1366*768,262144,359.3*209.5 (450g),3.3V,LVDS,6	15.6" LED HD (16:9, Gloss)
BA59-02505A	LTN156AT02-C,15.6 HD,LED,220NIT,DE,1366*768,262K,259.8*21.*5.5,3.3V,LVDS,6	15.6" LED HD (16:9, Gloss)
BA59-02547A	LTN173KT01-C,17.3HD+,LED,220NIT,DE,1600*900,262K,398.1*232.8*5.8,3.3V,LVDS,6	17.3" LED HD (16:9, Gloss)
BA59-02548A	N173O6-L02,17.3HD+,LED,220N,DE,1600*900,262144,398.1*232.8*5.8,3.3V,LVDS,6	17.3" LED HD (16:9, Gloss)
MEMORY		
		
1105-001923	IC-DRAM MODULE ; M471B2874DZ1-CF8,DDR3 SDRAM,1GByte,128Mx64,SODIMM	1GB (DDR3 1066MHz/1G)
1105-002056	IC-DRAM MODULE ; M471B2873EH1-CF8,DDR3 SDRAM,1GByte,128Mx8*8,SODIMM	1GB (DDR3 1066MHz/1G)
1105-001921	IC-DRAM MODULE ; M471B5673DZ1-CF8,DDR3 SDRAM,2GByte,256Mx64,SODIMM	2GB (DDR3 1066MHz/2G*1)
1105-002055	IC-DRAM MODULE ; M471B5673EH1-CF8,DDR3 SDRAM,2GByte,128Mx8*16,SODIMM	2GB (DDR3 1066MHz/2G*1)
1105-001921	IC-DRAM MODULE ; M471B5673DZ1-CF8,DDR3 SDRAM,2GByte,256Mx64,SODIMM	4GB (DDR3 1066MHz/2G*2)
1105-002055	IC-DRAM MODULE ; M471B5673EH1-CF8,DDR3 SDRAM,2GByte,128Mx8*16,SODIMM	4GB (DDR3 1066MHz/2G*2)

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ODD		
		
(BA96-04448A Purchase) (BA59-02459A Cuttings)	ASSY DVD-SUPERMULTI_DL ; BREMEN-UL,SATA,TSST,DVD-SUPERMULTI_DL,TS-L633B	Super Multi Dual Layer (SATA)
(BA96-04447A Purchase) (BA59-02571A Cuttings)	ASSY DVD-SUPERMULTI_DL ; BREMEN-UL,SATA,TEAC,DVD-SUPERMULTI_DL,DV-W28S-V	Super Multi Dual Layer (SATA)
(BA96-04533A Purchase) (BA59-02671A Cuttings)	TS-L633C,8x,190ms,SATA,2MB,6.5W,5V	Super Multi Dual Layer (SATA)
WLAN		
		
BA59-02572A	AR5B95,WLL6160-D99(ROHS),-,1x1,Half MiniCard Standard,-,-,-,W308*L26.88*H4.75mm,-,Atheros 802.11bgn	ATHEROS BGN-A
BA59-02573A	AR5B95,T77H121.05,-,1x1,Half MiniCard Standard,-,-,-,W30*L26.8*H4.75mm,-,Atheros 802.11bgn compliant	ATHEROS BGN-A
BA59-02541A	RTL8192,WLL6130,-,Half MiniCard,802.11bgn,W308*L26.88*H4.75mm,1x2 MIMO,Half MiniCard Standard	RLT BGN-R
BA59-02542A	RTL8192,T77H113.00,-,Half MiniCard,802.11bgn,W30*L26.8*H4.75mm,1x2 MIMO,Half MiniCard Standard	RLT BGN-R

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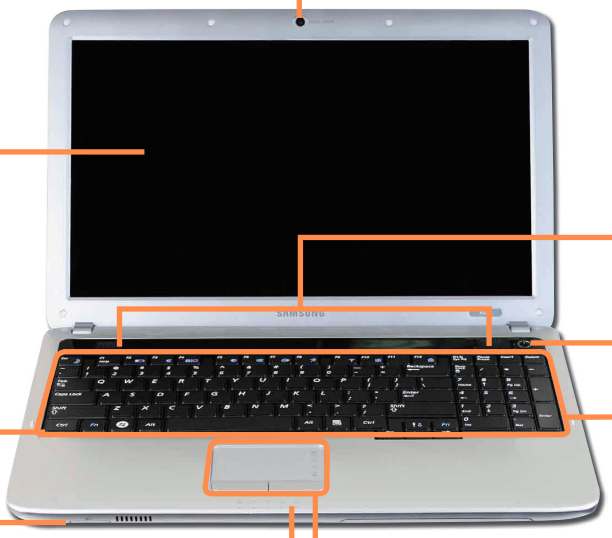
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2. Introduction and Specification

2-6. Function of Product

2-6-1. Overview

Front View



Camera Lens (Optional)
Using this lens, you can take still pictures and record video.

LCD
The screen images are displayed here.

Speaker
This is an output device for sound.

Power Button
Turns the computer on and off.

Keyboard
A device to enter data by pressing the keys.

Microphone
You can use the built-in microphone.

Multi Card Slot
A card slot that supports SD Card, SDHC and MMC.

Touchpad/Touchpad Buttons
The touchpad and touchpad buttons provide functions similar to the mouse ball and buttons.

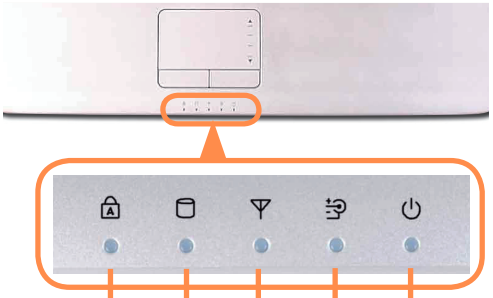
Status Indicators
Shows the operating status of the computer. The corresponding operating LED is lit when the corresponding function operates.

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Status Indicators



Caps Lock
This turns on when the Caps Lock key is pressed allowing capital letters to be typed without holding the Shift button down.

Hard disk/ODD
It shows that hard disks or ODD is operating

Wireless LAN
This turns on when the wireless LAN is operating.

Power
This shows the computer operating status.
On: When the computer is operating.
Blinks: When the computer is in Sleep mode.

Charge Status
This shows the power source and the battery charge status.
Green: When the battery is fully charged or the battery is not installed.
Amber: When the battery is being charged.
Off: When the computer is running on battery power without being connected to AC adapter.

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Right View



USB Port
You can connect USB devices to the USB port such as a keyboard/mouse, digital camera, etc.

CD Drive(ODD) (Option)
Plays CD or DVD titles.Since an ODD(Optical Disk Drive) is optional, the installed drive depends on the computer model.

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2. Introduction and Specification

Left View [A Type model]



Security Lock Port
You can connect a Kensington lock to the Security Lock Port to prevent the computer from being stolen.

DC Jack
A jack to connect the AC adapter that supplies power to the computer.

Monitor Port
A port used to connect a monitor, TV or projector supporting a 12-18pin D-SUB interface.

Wired LAN Port
Connect the Ethernet cable to this port.

Headphone Jack
A jack used to connect the headphones.

Microphone Jack
A jack used to connect the microphone.

USB Port
You can connect USB devices to the USB port such as a keyboard/ mouse, digital camera, etc.

Digital video/audio port (HDMI)
This is a port for a HDMI cable.
You can experience digital videos and audios by connecting the port with a TV.v

Left View [B Type model]



Security Lock Port
You can connect a Kensington lock to the Security Lock Port to prevent the computer from being stolen.

DC Jack
A jack to connect the AC adapter that supplies power to the computer.

Monitor Port
A port used to connect a monitor, TV or projector supporting a 12-18pin D-SUB interface.

Wired LAN Port
Connect the Ethernet cable to this port.

ExpressCard slot
This is a slot which can use ExpressCards.

Headphone Jack
A jack used to connect the headphones.

Microphone Jack
A jack used to connect the microphone.

Chargeable USB port
This is a port for a USB keyboard, a mouse, a digital camera and a USB device. (Chargeable USB: Some items can be charged by using this USB port even though the computer is off.)

A combined port for eSATA and a USB
This is a port which can connect a USB device or an eSATA.

Digital video/audio port (HDMI)
This is a port for a HDMI cable.
You can experience digital videos and audios by connecting the port with a TV.v

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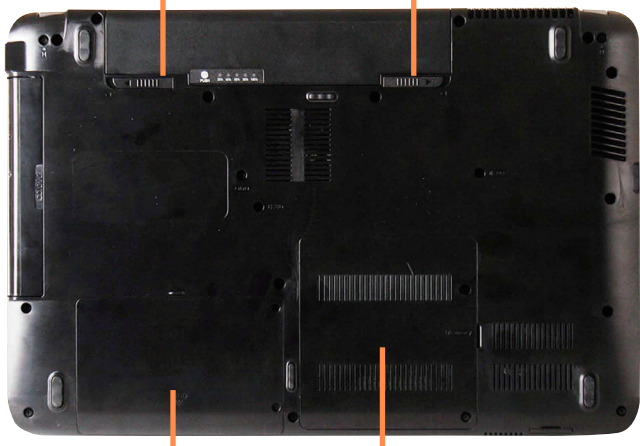
Back View



A ventilating opening
It is a place where heat produced by running a computer can be emitted.

Battery
This is a Lithium-Ion rechargeable battery that supplies power to the computer.

Bottom View



Battery Latches
The latch used to remove or install the battery.

Memory Compartment Cover
The main memory is installed inside the cover.

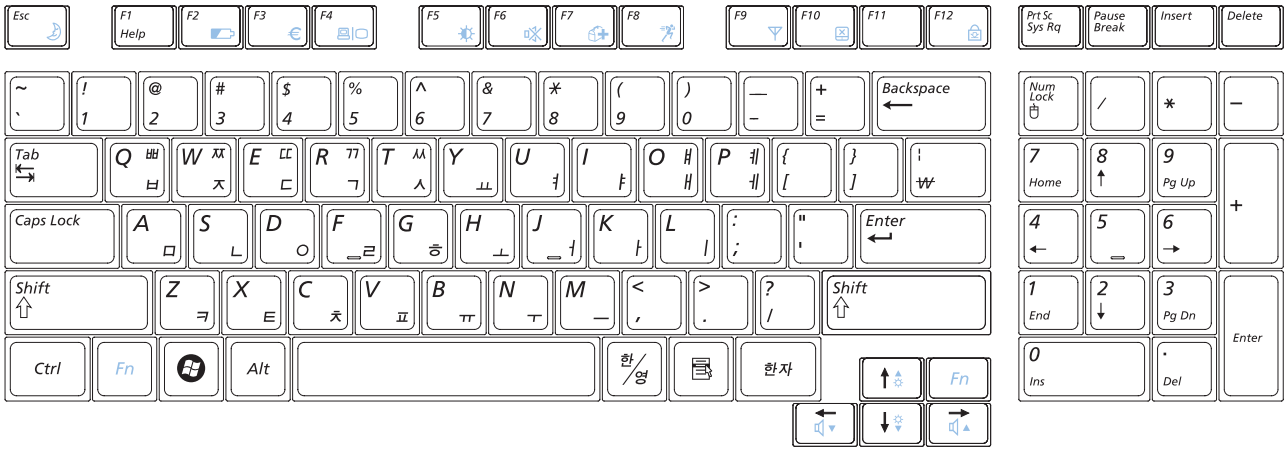
Hard disks cover
A hard disk is installed inside the cover.

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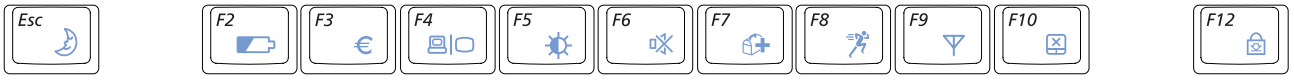
New Keyboard



Shortcut Keys

You can use the following functions by pressing the keys below with the Fn key.

[A Type Model]



[A Type Model]



Fn+		Name	Function
		**REST(Sleep Mode)**	Switches to Sleep mode. To wake the computer up, press the Power button.
		**Gauge**	Shows the remaining battery charge. You can only use this function when the Easy Display Manager program is installed.
		**Euro**	Enters the Euro monetary unit symbol.This key may not be provided depending on the keyboard type.
		**CRT/LCD**	Switches the screen output to the LCD or external monitor when an external monitor (or TV) is connected to the computer.
		**Backlit**	Turns the LCD backlight on or off.
		**Mute**	Mutes or cancels mute.
		**Samsung Magic Doctor**	System diagnosis, recovery and Internet consultation program, Samsung Magic Doctor, will be launched.
		**Easy SpeedUP Manager**	You can select operation mode when you need maximum system performance or low-noise/low power consumption with one-click. Slient : Low-noise and low power consumption mode Normal : Normal Mode Speed : Maximum performance mode. The system operates in its maximum performance, and system resources are allocated to the currently active program with priority for maximum performance.

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		**Wireless LAN**	Turns the wireless LAN function on or off in models with wireless LAN capability..
		**Touchpad**	Turns the Touchpad function on or off. When using an external mouse only, you can turn the Touchpad off.
		**Scroll Lock**	If you turn the Scroll Lock on, you can scroll the screen up or down without changing the cursor location in some applications.

Screen Brightness Control

To adjust the LCD brightness press the Fn +  key combination or the Fn +  key combination.

The changed screen brightness is displayed at the center of the screen for a moment.

Volume Control

To control the volume, press the Fn +  key combination or the Fn +  key combination.

You can mute the sound or cancel the mute function by clicking the Fn +  key combination.

Other Function Keys

Application Key 

Performs the right-click mouse function (touchpad).

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2-7. SW List

ITEM	VERSION
Wallpaper VISTA	2.0.1.2 (Greek)
Media Center KOR IME (New Setup)	3.1.5
Samsung Update Plus	2.0.0.21
Adobe Reader (KOR)	9.0.0.332
Adobe Reader (ENG)	9.0.0.332
Adobe Reader (FRN)	9.0.0.332
Adobe Reader (GER)	9.0.0.332
Adobe Reader (SPA)	9.0.0.332
Adobe Reader (CHS)	9.0.0.332
Adobe Reader (CHT)	9.0.0.332
Adobe Reader (POR)	9.0.0.332
Adobe Reader (RUS)	9.0.0.332
Samsung Screen Saver	1.0.2.2 (BRA)
Easy Partition Manager	2.2.2.5(13G) 40GB
ChkWiz Anchor	Vista 324bit - 2.0.0.7
ChkWiz Anchor	Vista 644bit - 2.1.0.8
SetDisplayResolution(NP)	1.2.0.8
Easy Network Manager (Help files updated for Win7)	4.0.2.4
Intel Matrix Storage Manager-8.9.0.1023PV(DIPMDisable)	8.9.0.1023
Adobe Reader (ITA)	9.0.0.332
Easy Battery Manager 3	3.2.1.9
Easy SpeedUp Manager	2.0.2.9
Vista(32 & 64)-Marvell LAN Driver [10/100 & GbE]	11.22.3.3
Media Center Update (SWDesc Update)	2.2.2
McAfee Internet Security (MUI)	9.11.109.0
Recovery EmptyWim	1.0.0.0
McAfee VirusScan (KOR)	9.11.109.0
CSUP (MDA)	1.0.0.4
Atheros WLAN Driver (Vista, 32bit)	7.7.0.288-WHQL(CCX_v1.1.0.53)
MS Office 2007 Ready (KOR)	1.9
MS Office 2007 ready (ENG) - Selectable	1.9
MS Office 2007 ready (CHS) - Selectable	1.9
MS Office 2007 ready (CHT-HKG) - Selectable	1.9
MS Office 2007 Ready (GER) - Selectable	1.9
MS Office 2007 Ready (FRN) - Selectable	1.9
MS Office 2007 Ready (SPN) - Selectable	1.9
MS Office 2007 ready (RUS)	1.9
MS Office 2007 ready (ITA) - Selectable	1.9
Copy OOBE(ARB)	1.0.0.2
Realtek ALC26X Vista Sound Driver	6.0.1.5948Logo
Adobe Reader (UKR)	9.0.0.332
PC Troubleshooting_Korean	2.0.0.5
PC Troubleshooting_Chinese_Selectable	2.0.0.5

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ITEM	VERSION
PC Troubleshooting_English_Selectable	2.0.0.5
Cantiga Chipset + 8languages+Greek+8 languages+Greek+8 language(Brazilian etc)_update	9.1.1.1019
HotfixChecker	1.0.0.0
Adobe Reader (POL)	9.0.0.332
Intel Cantiga Vista 32bit Graphics Driver(GM45)	7.15.10.1861(Customized Logo)
MS Office 2007 Ready (POL) - Selectable	1.9
McAfee DAT Update	5762.0 (09.10.05)
Vista SP1 32bit OS Ultimate (40G)	SP1
Vista SP1 32bit OS Home Premium(40G)	SP1
Vista SP1 32bit OS Home Basic (40G)	SP1
Vista SP1 32bit OS Business (40G)	SP1
Vista SP1 32bit FRN Language Pack	SP1
Vista SP1 32bit GER Language Pack	SP1
Vista SP1 32bit SPN Language Pack	SP1
Vista SP1 32bit ENG Language Pack	SP1
Vista SP1 32bit KOR Language Pack	SP1
Vista SP1 32bit RUS Language Pack	SP1
Vista SP1 32bit ITA Language Pack	SP1
Vista SP1 32bit POL Language Pack	
Vista SP1 32bit DUT Language Pack	SP1
Vista SP1 32bit CHS Language Pack	SP1
Vista SP1 32bit CHT Language Pack	
Vista SP1 32bit TUR Language Pack	SP1
VistaSP1-Hotfix-common	1.0.0.13
Adobe Reader (TUR)	9.0.0.332
Adobe Reader (DUT)	9.0.0.332
MS Office 2007 Ready (TUR) - Selectable	1.9
MS Office 2007 Ready (DUT) - Selectable	1.9
VistaSP1-Hotfix-CriticalUpdates	Ver.200908
Vista SP1 32bit POR Language Pack	SP1
VistaSP1-Hotfix-WLAN	1.0.0.0
Vista SP1 64bit OS HomePremium	SP1(40G)
Vista SP1 64bit KOR Language Pack	SP1
Vista SP1 64bit ENG Language Pack	SP1
GoogleToolbarInstaller(All)	6.2.1910.1554
Google Start Page(Vista&Win7)	
Vista SP1 64bit FRN Language Pack	SP1
Vista SP1 64bit GER Language Pack	SP1
Vista SP1 64bit SPA Language Pack	SP1
Vista SP1 64bit ITA Language Pack	SP1
Vista SP1 32bit DAN Language Pack	
Vista SP1 32bit FIN Language Pack	SP1
Vista SP1 32bit NOR Language Pack	SP1
Vista SP1 32bit SWE Language Pack	SP1

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Vista SP1 32bit ARB Language Pack	SP1
VistaSP1-Hotfix-Critical(x64)	200908
VistaSP1-Hotfix-common(x64)	1.0.0.4
Intel Cantiga Vista 64bit Graphics Driver(GM45)	7.15.10.1861(Customized_HDMI Audio 2077)-WHQL
VistaSP1-Hotfix-WLAN(x64)	1.0.0.0
Cyberlink YouCam	2.0.0.3304 - PSTOBE-SWDESC
Adobe Reader (Danish)	9.0.0.332
Adobe Reader (Finland)	9.0.0.332
Adobe Reader (Norwegian)	9.0.0.332
Adobe Reader (Swedish)	9.0.0.332
Adobe Reader (Arabic)	9.0.0.332
Copy OOBE(GBR)	1.0.0.2(Vista)
Battery Life Extender	1.0.0.2
Atheros WLAN Driver (Vista, 64bit)	7.7.0.288
Windows Live Wave 3 QFE2 (KOR)	3.5
Easy Display Manager 3.0	3.0.3.9 (32bit/64bit, OptionUpdate)
Marker File (Vista&Win7)	2
MSetup Patch for Selectable HDM	1.0.0.8
Game Console (KOR)	1.2
AnyPC	1.0.0.19A
Windows Live Wave 3 QFE2 (ENG)	3.5
MS Office 2007 ready (DAN) - Selectable	1.9
MS Office 2007 ready (FIN) - Selectable	1.9
MS Office 2007 ready (NOR) - Selectable	1.9
MS Office 2007 ready (SWE) - Selectable	1.9
Game Console (CHT)	1
Game Console (DUT) - Selectable	1
Game Console (ENG) - Selectable	1
Game Console (FRA) - Selectable	1
Game Console (GER) - Selectable	1
Game Console (ITA) - Selectable	1
Game Console (SPA) - Selectable	1
Game Console (SWE) - Selectable	1
Game Console (DAN) - Selectable	1
MS Office 2007 Ready (POR) - Selectable	1.9
SISShortcut (Vista)	1.0.0.1
Windows Live Wave 3 QFE2 (CHS)	3.5
Recovery Solution 4	4.0.0.4
Windows Live Wave 3 QFE2 (FRN)	3.5
Windows Live Wave 3 QFE2 (SPN)	3.5
Windows Live Wave 3 QFE2 (GER)	3.5
Windows Live Wave 3 QFE2 (ITA)	3.5
Windows Live Wave 3 QFE2 (CHT)	3.5
Windows Live Wave 3 QFE2 (GRE)	3.5
Windows Live Wave 3 QFE2 (DUT)	3.5

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ITEM	VERSION
Windows Live Wave 3 QFE2 (POR)	3.5
Windows Live Wave 3 QFE2 (RUS)	3.5
Windows Live Wave 3 QFE2 (POL)	3.5
Windows Live Wave 3 QFE2 (UKA)	3.5
Windows Live Wave 3 QFE2 (TUR)	3.5
Windows Live Wave 3 QFE2 (DAN)	3.5
Windows Live Wave 3 QFE2 (FIN)	3.5
Windows Live Wave 3 QFE2 (NOR)	3.5
Windows Live Wave 3 QFE2 (SWE)	3.5
Recovery Environment 4	4.0.0.4(15GB)
Recovery Settings 4	4.0.0.31
SW Media Installer (for SRS) Vista/Win7	5.2.0.7
CyberLink DVD Suite for Win7 -SWDESC	11
Samsung Support Center	1.1.0.1
Samsung Support Center Setting	1.0.0.2
Win7/Vista_FAQ manual (SRS4)	1.5.0.0
Sentelic Touchpad Driver	8.5.3.0
Phoenix Failsafe 1.2	BASW-01278A
Phoenix Failsafe Installer	1.0.1.7 has FailSafeNotifier.exe (1.0.1.2) not 1.0.1.7

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2-8. System Setup (BIOS Setup)

MAIN

SATA Port 1

- HDD Model name is displayed in this item as device information for SATA Port 1.

SATA Port 2

- DVD/CD-ROM is displayed in this item as device information for SATA Port 2.

Total Memory

- Total Memory Size in System.

Slot1 Memory

- Memory size of slot 1 as memory capacities embedded in memory slot

Slot2 Memory

- Memory size of slot 2 as memory capacities added in memory slot

Graphics Memory (It is shown in the Intel Graphics Model)

- [Auto : Shared] : Selected graphics memory depend on system memory size automatically.
- [128 MB : Shared] : Selected 128 MB graphics memory size.
- [256 MB : Shared] : Selected 256 MB graphics memory size.
- [Max : Shared] : Selected maximum graphics memory size.
- Graphics memory in the system of Windows Vista installed will be optimized by DVMT5.0

BIOS Setup Graphic memory Setup guidence

- Auto , Max mode share main memory as table

메인메모리 용량	1GB		2GB		3GB		4GB	
Mode	BIOS	XP	BIOS	XP	BIOS	XP	BIOS	XP
Auto	128MB	128MB	256MB	256MB	256MB	256MB	256MB	256MB
128MB	128MB	128MB	128MB	128MB	128MB	128MB	128MB	128MB
256MB	256MB	256MB	256MB	256MB	256MB	256MB	256MB	256MB
Max	512MB	512MB	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB

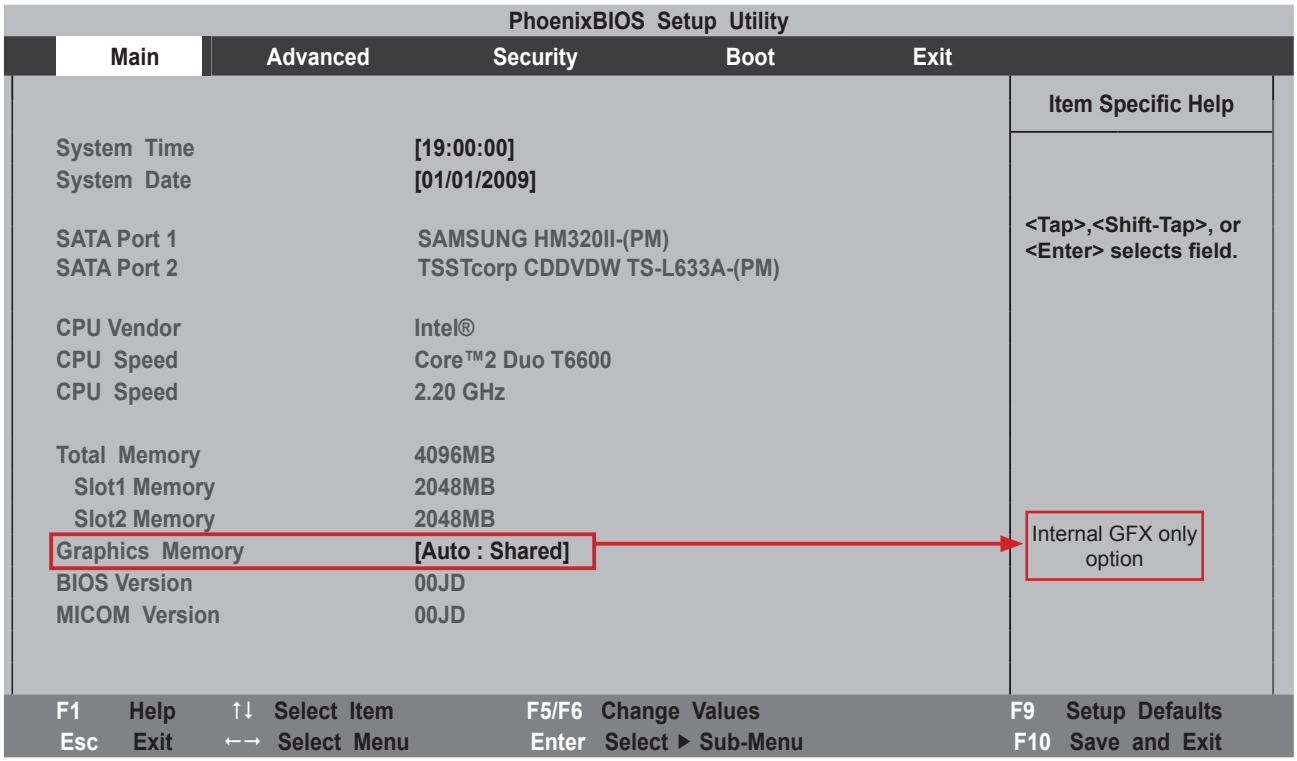
※ Max mode : Intel Montevina Chipset support(Spec)

- Windows XP only.
- Windows Vista share Gfx memory automatically by DVMT 5.0 spec.
- System Memory Size : 1GB => Gfx Memory 268MB
- System Memory Size : 2GB => Gfx Memory 780MB
- System Memory Size : 3GB => Gfx Memory 1292MB
- System Memory Size : 4GB => Gfx Memory 1292MB (Gfx Memory Size can be little different by OS calculation.)

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Advanced

Intel(R) SpeedStep(TM)

- Enables function that makes CPU speed change automatically according to the amount of use of CPU

Legacy OS Boot

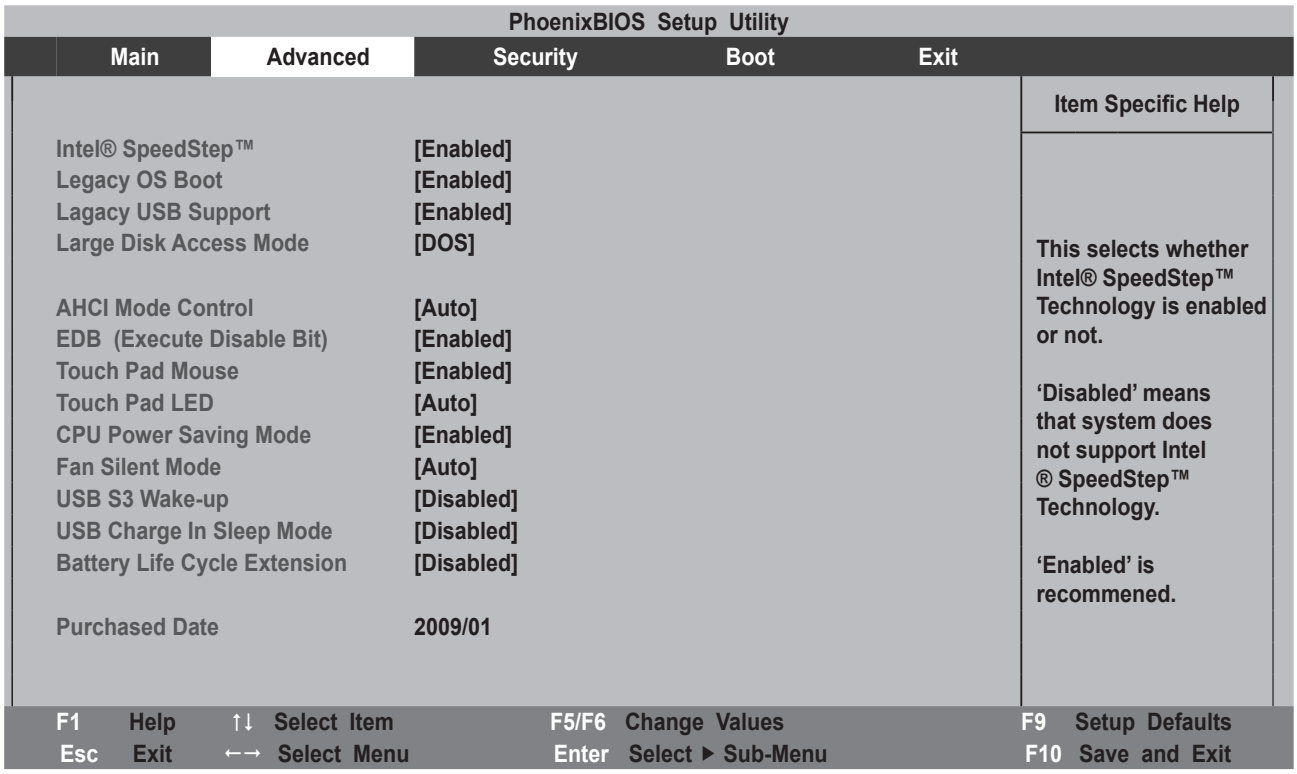
- This option select that the system will support only Legacy OS boot or will set OS boot supported with EFI first, Legacy OS boot second. EFI: This is protocol to interface OS and Bios firmware on the platform based on Intel device. It has an OS that support EFI and it operate regularly only when having EFI protocol set with this OS but, at present it does not have EFI and OS which is set with this feature.

Legacy USB Support

- Enable support for Legacy Universal Serial Bus.

Large Disk Access Mode

- UNIX, Novell NetWare or other O/S, select 'Other'.



AHCI Mode Control

- This option select that you can use AHCI mode. When selecting (Auto), AHCI mode automatically will be change to AHCI/IDE mode according to the Master manufactured.
- When selecting (Manual), AHCI mode manually will be change to AHCI/IDE mode by user handling
- [Manual] – [Enable]: Operates to AHCI mode. When you install OS, it will be installed to AHCI mode and when you install OS programmed by IDE mode, it comes up BSOD.
- [Manual] – [Disable]: Operates to IDE mode. When you install OS, it will be installed to IDE mode and when you install OS programmed by AHCI mode, it brings in BSOD. To prevent BSOD, you should select proper mode or Auto.
- SAMSUNG support Master of standard AHCI enabled.

EDB (Execute Disable Bit)

- supports the Data Execution Prevention (DEP) feature. DEP is a set of H/W & S/W technologies that perform additional checks on memory to help prevent malicious code from running on a system.

Internal LAN

- "Enabled" will allow the internal LAN to operate correctly.

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Touch Pad Mouse

- "Disabled" prevents installed Touch Pad mouse from functioning, but frees up IRQ 12. 'Enabled' forces the Touch Pad mouse to be enabled. With reference, if you set Touch Pad to “Disable” using the (Fn+F9), Touch Pad setting is changed to “Enable” when you boot some other time

Touch Pad LED

- [Auto] means that LED will turn on when you touch the pad. [Touchpad] means that LED operates according to Touchpad’s status. [Always Off] means that LED always turns off.

CPU Power Saving Mode

- "Enabled" will decrease system power consumption.

Fan Silent Mode

- “Low” will allow the Fan to toggle On/Off and regulate the RPM according to the system temperature and as only off temperature is set to lower it set to minimize noise occurred when switching On and Off
- “Auto” will allow the rotation and stop of the Fan to repeat continuously.

USB S3 Wake-up

- “USB S3 Wake-up” will allow Wake-up feature by USB device to support in standby mode

Battery Life Cycle Extension

- [Enabled] will allow battery to charge to only 80%.
- [Disabled] will allow battery to charge to full state.

Purchased Date

- This system displays the date of the 10th time booting after purchasing pc system,

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Security

Set the Supervisor Password

- Supervisor Password controls access to the setup utility.

Set a User Password

- User Password controls access to a few items in the setup utility.

Set a HDD Password

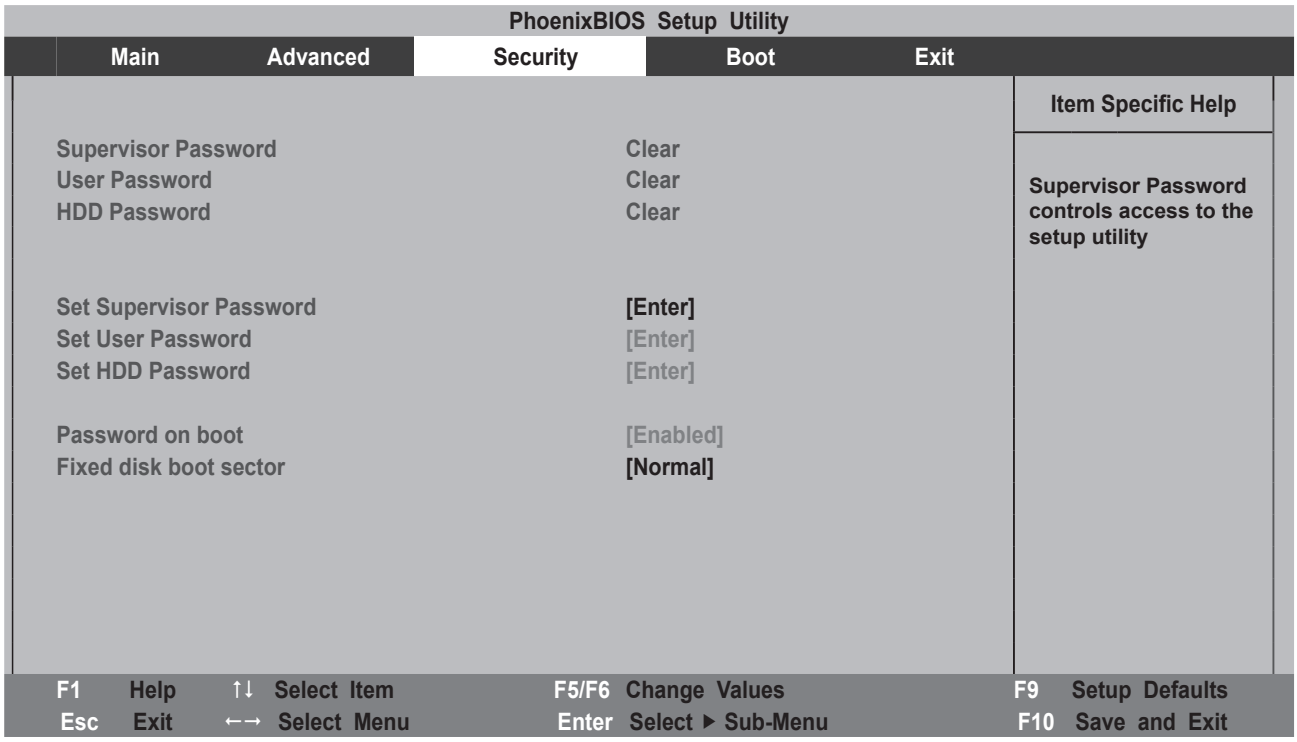
- User can set a password of a HDD.

Password on Boot

- Supervisor Password controls access to system boot.

Fixed Disk Boot Sector

- "Write Protect" will protect to write in Boot Sector of HDD.



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Boot Device

Boot Device Priority

- Select system boot options.

NumLock

- Selects Power-on state for Numlock.

Summary Screen

- Display system configuration on boot.

Boot-time Diagnostic Screen

- Display the diagnostic screen during boot.

PXE OPROM

- This selects whether network boot PXE will be loaded or not during the POST.
  - [Only with F12] : The network boot PXE will be loaded only if F12 is pressed during the POST.
  - [Always] : The network boot PXE will be always loaded during the POST.

Brightness Control Mode

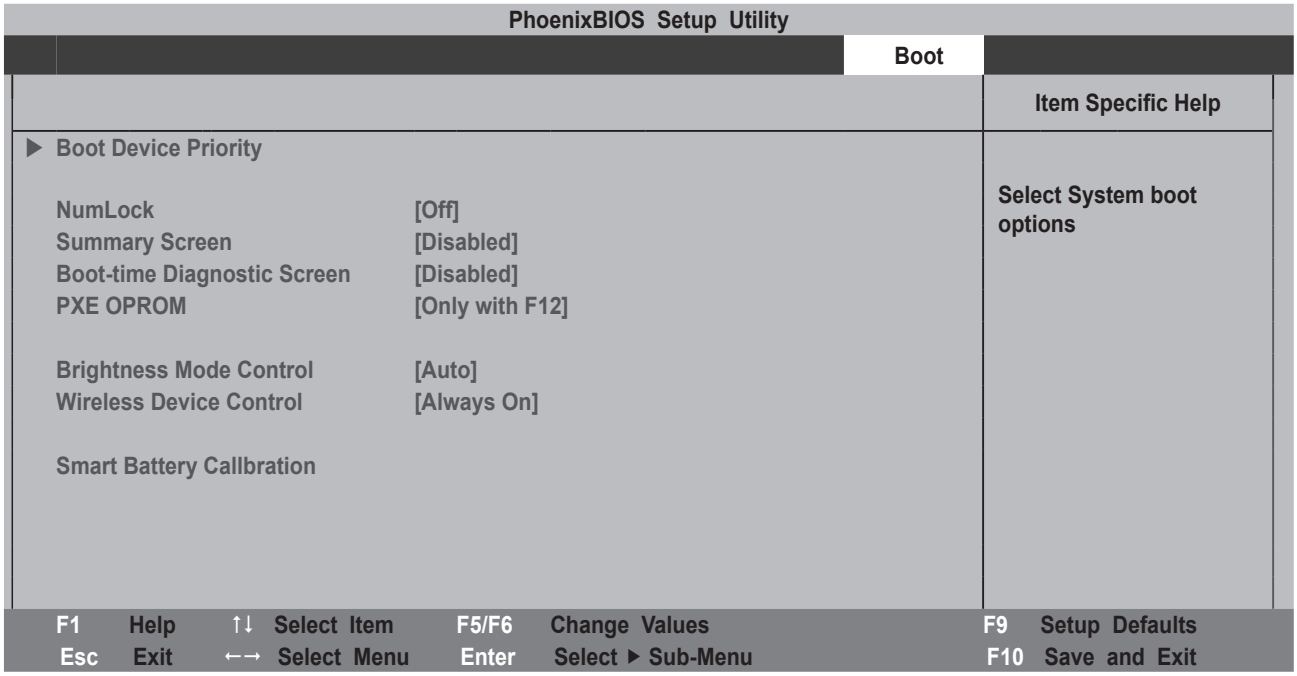
- [Auto] : The brightness values are set by the status of AC adapter at each bootup.
- [User Control] : The brightness values could be remained regardless of the status of AC adapter.

Wireless Device Control

- [Always On / Off] : The wireless devices are turned on or not.
- [Last Status] : The wireless devices are restored to last status.

Smart Battery Calibration

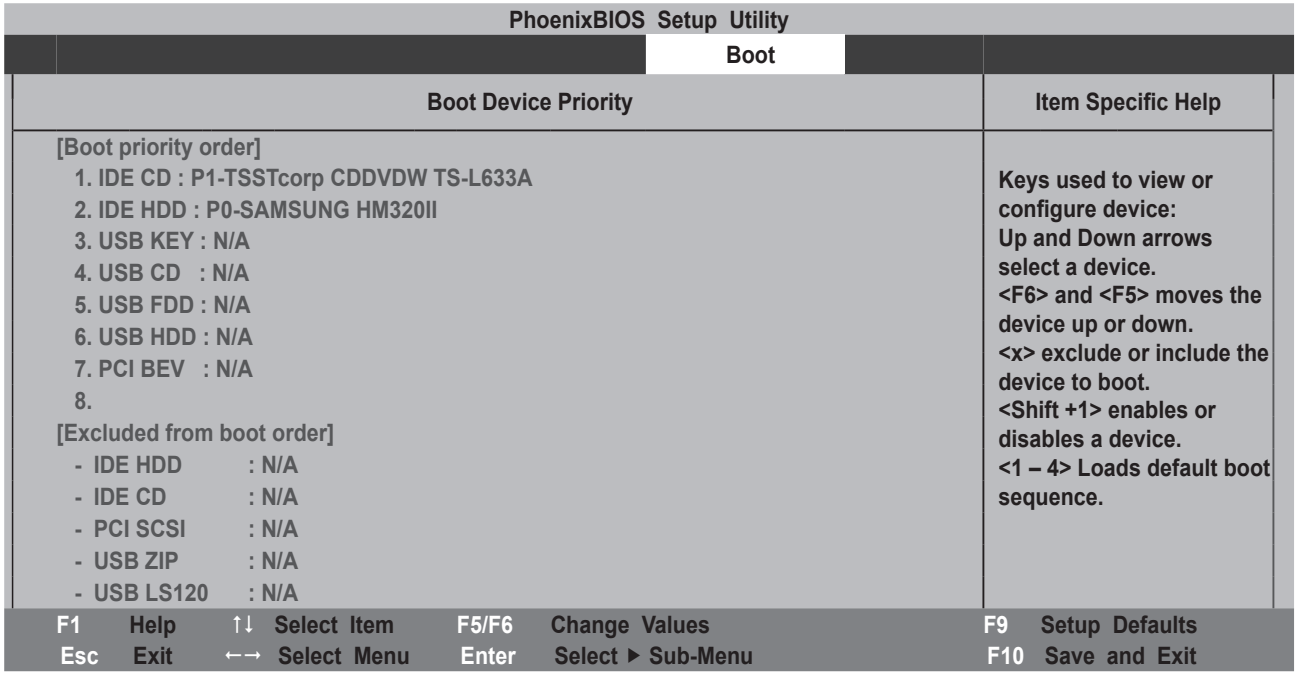
- If you select this option, the system battery will be discharged completely for more accurate battery level detection. This option only works with SMART battery.



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Exit

Exit Saving changes

- Exit System Setup and save your changes to CMOS.

Exit Discarding Changes

- Exit utility without saving Setup data to CMOS.

Load Setup Defaults

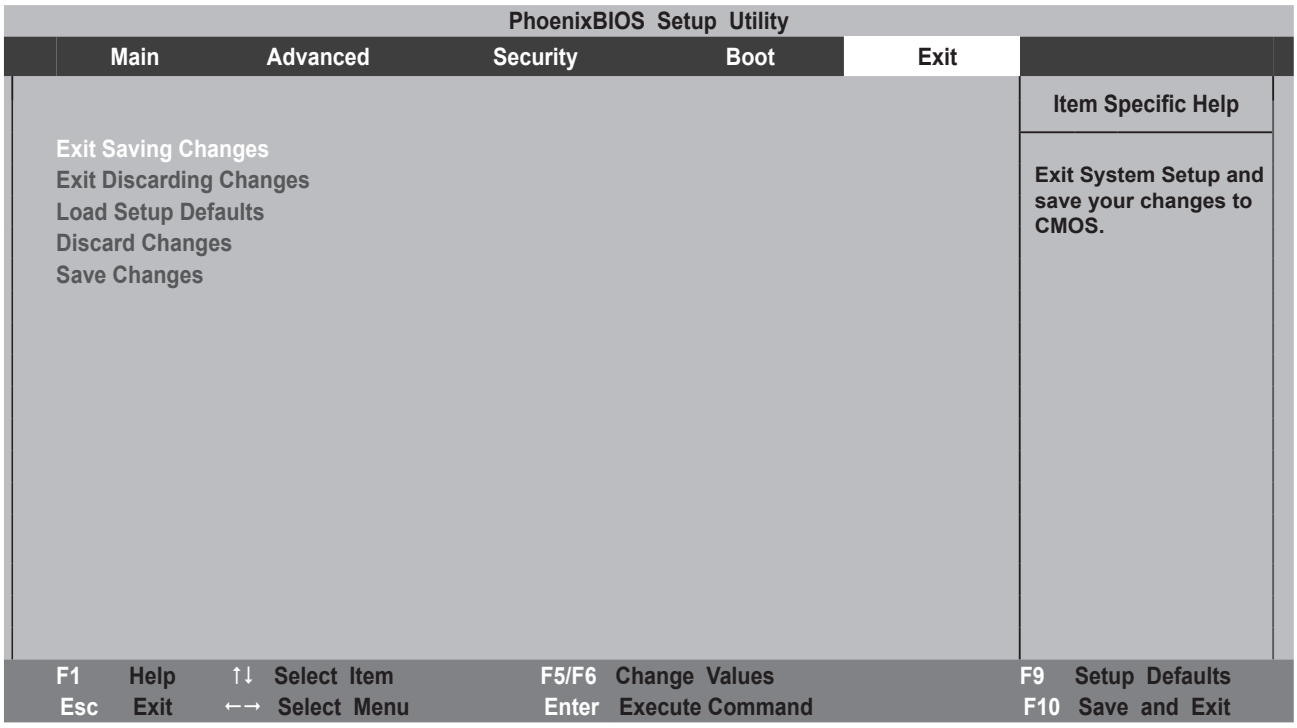
- Load default values for all SETUP items.

Discard Changes

- Load previous values from CMOS for all SETUP items.

Save Changes

- Save Setup Data to CMOS.



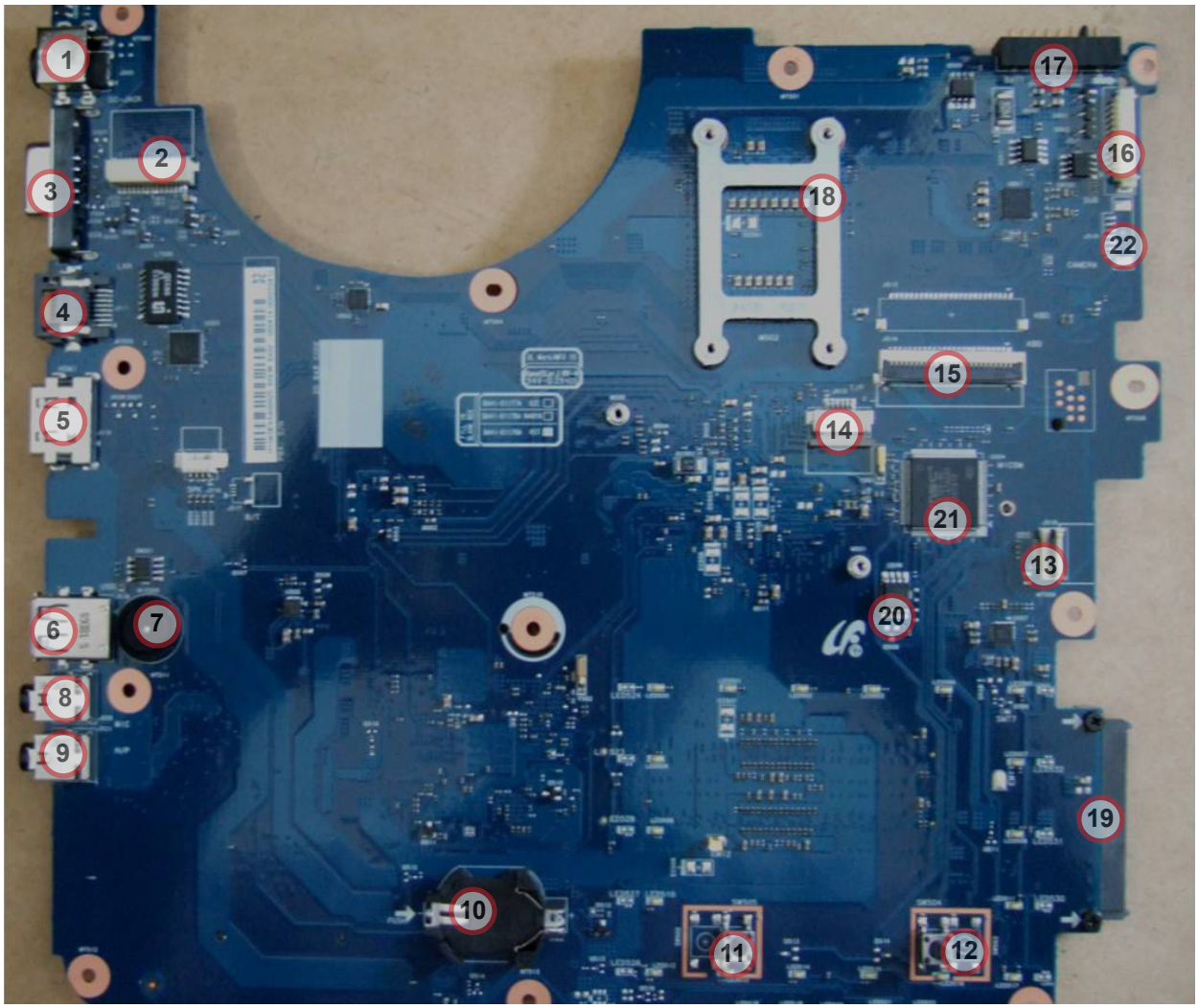
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2-9. Mainboard Part Description

TOP



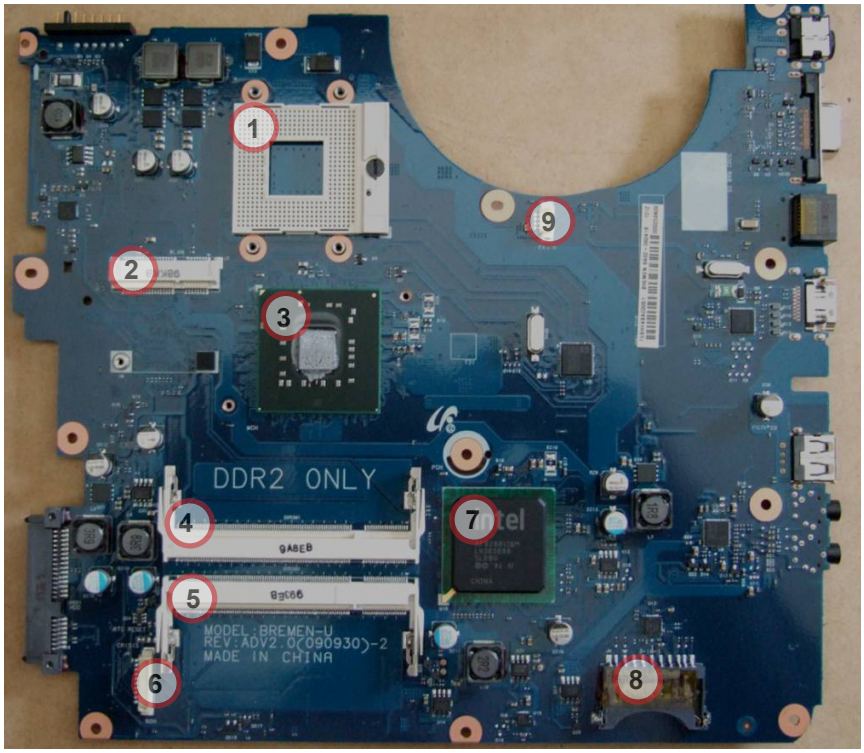
1	DC IN connector	12	Touch PAD Tact S/W(2)
2	LCD connector	13	ODD connector
3	RGB connector	14	Touchpad connector
4	Lan connector	15	Keyboard connector
5	HDMI connector	16	USB Sub Board Conn
6	USB port	17	Battery connector
7	Inner MIC module	18	CPU Braket
8	Headphone Jack	19	HDD connector
9	Internal MIC connector	20	BIOS ROM
10	RTC Batt Conn	21	MICOM
11	Touch PAD Tact S/W(1)	22	Camera Conn(17" Only)

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BOTTOM



1	CPU socket	**6**	MCH
2	WLAN connector	**7**	ICH
3	SODIMM connector	**8**	3-in-1 socket
4	SODIMM connector	**9**	Fan connector
5	SODIMM connector		

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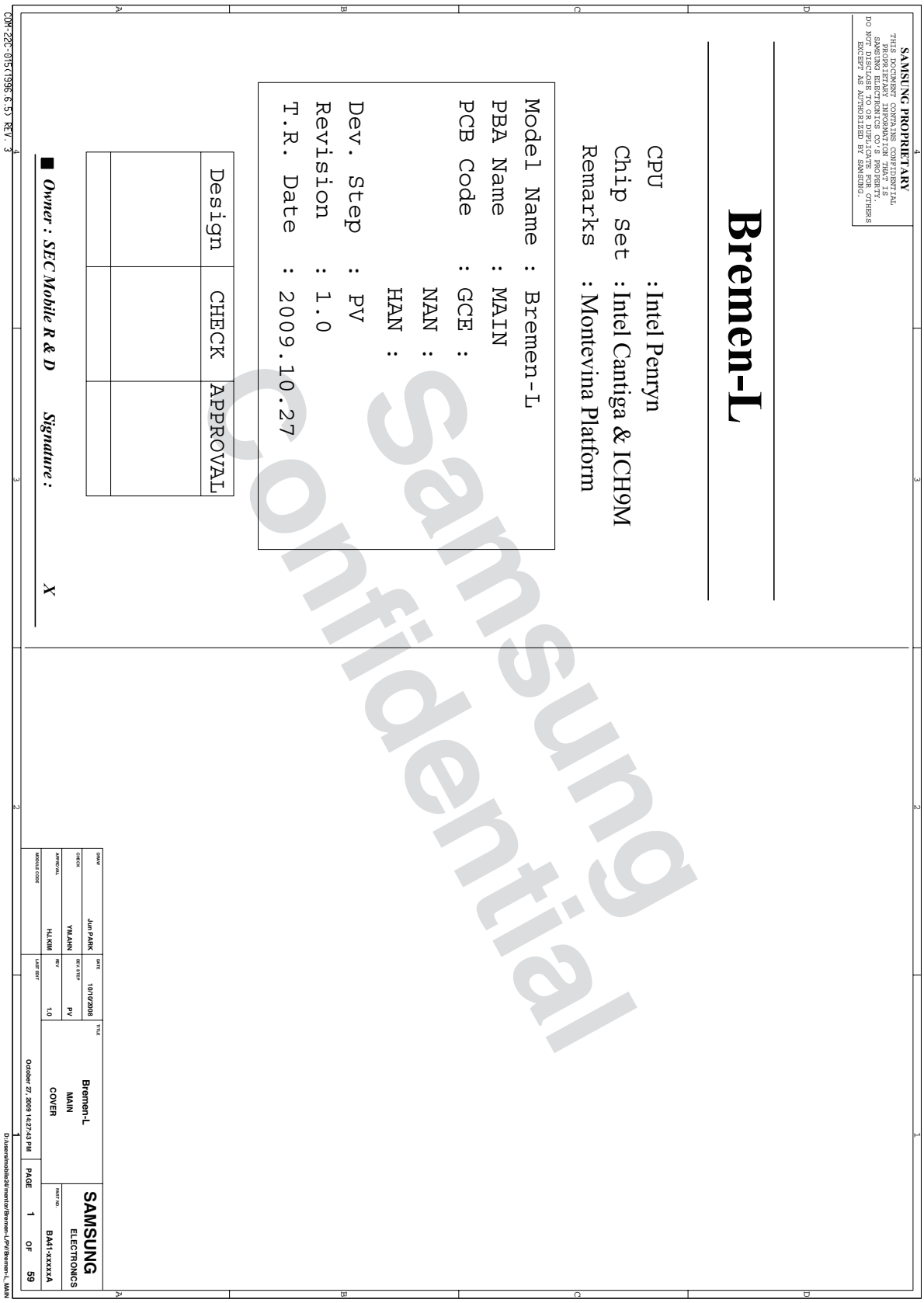
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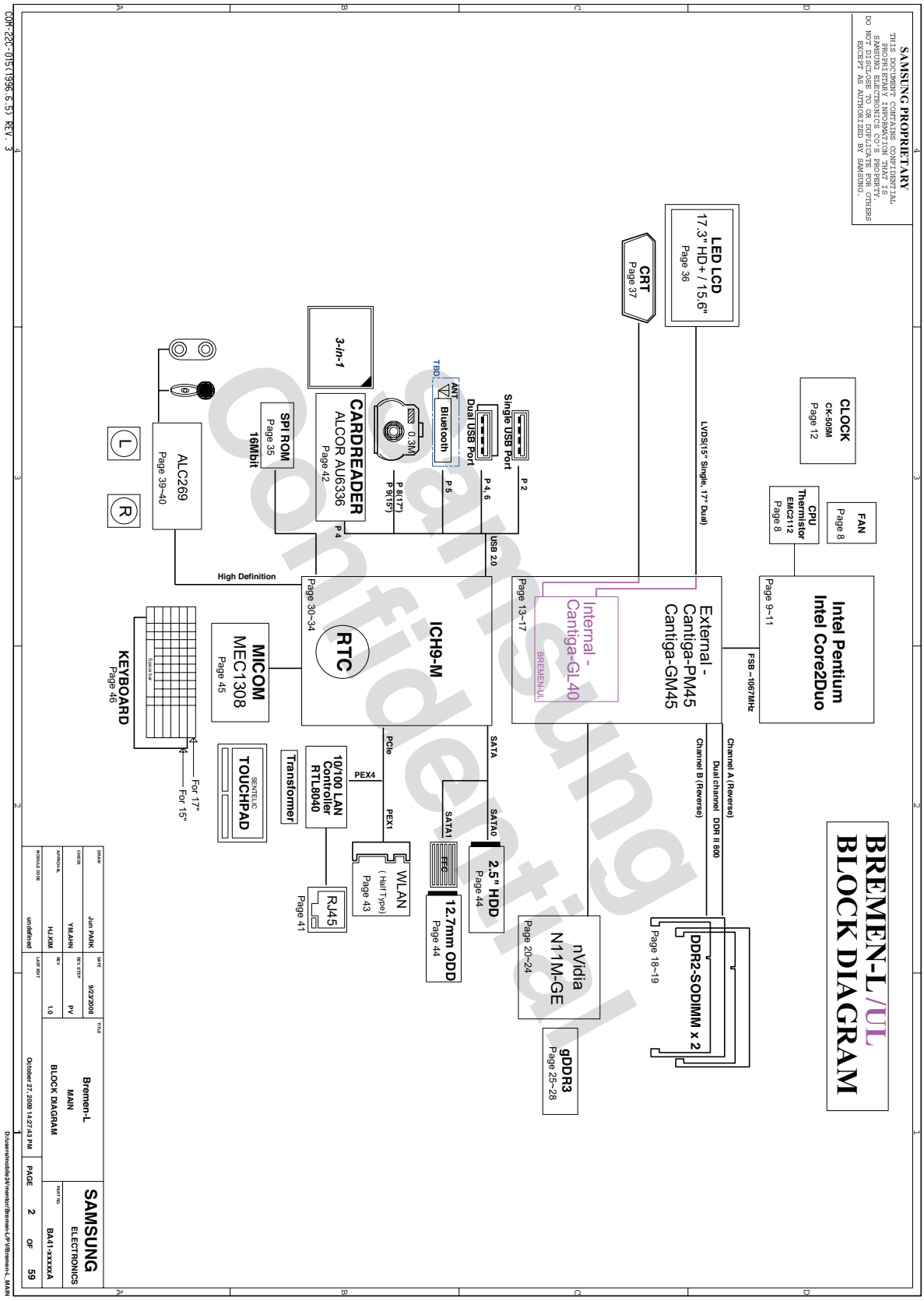
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BOARD INFORMATION

SCHEMATIC ANNOTATIONS AND BOARD INFORMATION

I²C / SMB Address

Devices	Address	Hex	Bus
ICH9M	**Master**		**SMBUS Master**
CK-505M (Clock Generator)	1101 001X	D2h	Clock, Unused Clock Output Disable
SODIMM0	1010 000X	A0h	-
SODIMM1	1010 001X	A4h	
MICOM	**Master**		
BATTERY	0001 011X	16h	
EMC2102	0111 101X	7Ah	

USB PORT Assignation

Port Number		ASSIGNED TO	Port Number		ASSIGNED TO
UHCI_0	0 1	USB PORT (RIGHT, SUB)	UHCI_3	6 7	USB PORT (RIGHT, SUB)
UHCI_1	2 3	USB PORT (LEFT)	UHCI_4	8 9	CAMERA(17") CAMERA(15")
UHCI_2	4 5	CARD READER(AU6336) BLUETOOTH(TBD)	UHCI_5	10 11	

SATA Assignation

Port Number	ASSIGNED TO	Port Number	ASSIGNED TO
SATA0	HDD	SATA1	ODD
SATA2	-	SATA3	-

PCI EXPRESS Assignation

Port Number	ASSIGNED TO	Port Number	ASSIGNED TO
PCIe1	WLAN	PCIe2	Wired LAN
PCIe3	-	PCIe4	-

Crystal / Oscillator

TYPE	PREQUENCY	DEVICE	USAGE
Crystal	32.768KHz	ICH9-M	
Crystal	10MHz	MICOM	
Crystal	14.318MHz	CLOCK-Generator	
Crystal	25MHz	LAN	

Voltage Rails

Power Rail	Descriptions	Power Rail	Descriptions
VDC_ADPT	Primary DC system power supply (9 to 19V)	***P1.05V_PEG***	P1.05V (Direct Media Interface Compensation)
VDC		***P5.0V***	5.0V Power Rail (off in S3-S5)
VDC_CHG	Charger Reference Voltage Source	***P3.3V***	3.3V Power Rail (off in S3-S5)
PRTC_BAT	3.3V supply for the RTC well.	***P1.05***	1.05V Power Rail (off in S3-S5)
P5.0V_ALW	5.0V always power well	***P0.9V***	DDR2 Termination
P12.0V_ALW	12.0V always power well	***P5.0V_AUX***	5.0V Power Rail (off in S4-S5)
P1.7V_VREF	Power Chip Reference	***P3.3V_AUX***	3.3V Power Rail (off in S4-S5)
P2.0V_VREF	Power Chip Reference	***P1.8_AUX***	1.8V Power Rail (off in S4-S5)
P5.0V_VREF_FILT	Power Chip Reference	***CPU_CORE***	Core Voltage for CPU
P3.3V_MICOM	Output voltage of RT8205AGQW (if VDC is removed, it will be off)	***AUD_P5V***	5.0V supply for Audio
LCD_VDD3V	3.3V (LED LCD)	***P4.75V_AUD***	Auido Analog Voltage
KBC3_CHG4.2V	To charge battery	***P5.0V_STB***	To charge USB device at sleep status
		P5.0V_ODD	5.0V supply at SUB_ODD Board
P1.2V_LAN	Internal Regulator's Power of LAN Controller	***EGFX_CORE***	nVidia Graphic Chip power
P2.5V_LAN		***P1.5V***	1.5V Power Rail (off in S3-S5)
		P1.5_AUX	1.5V Power Rail (off in S4-S5)
P3.3V_MCD	3.3V (3-in-1 Socket)	***P1.8V***	1.8V Power Rail (off in S3-S5)

Power source of External

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REVISION HISTORY

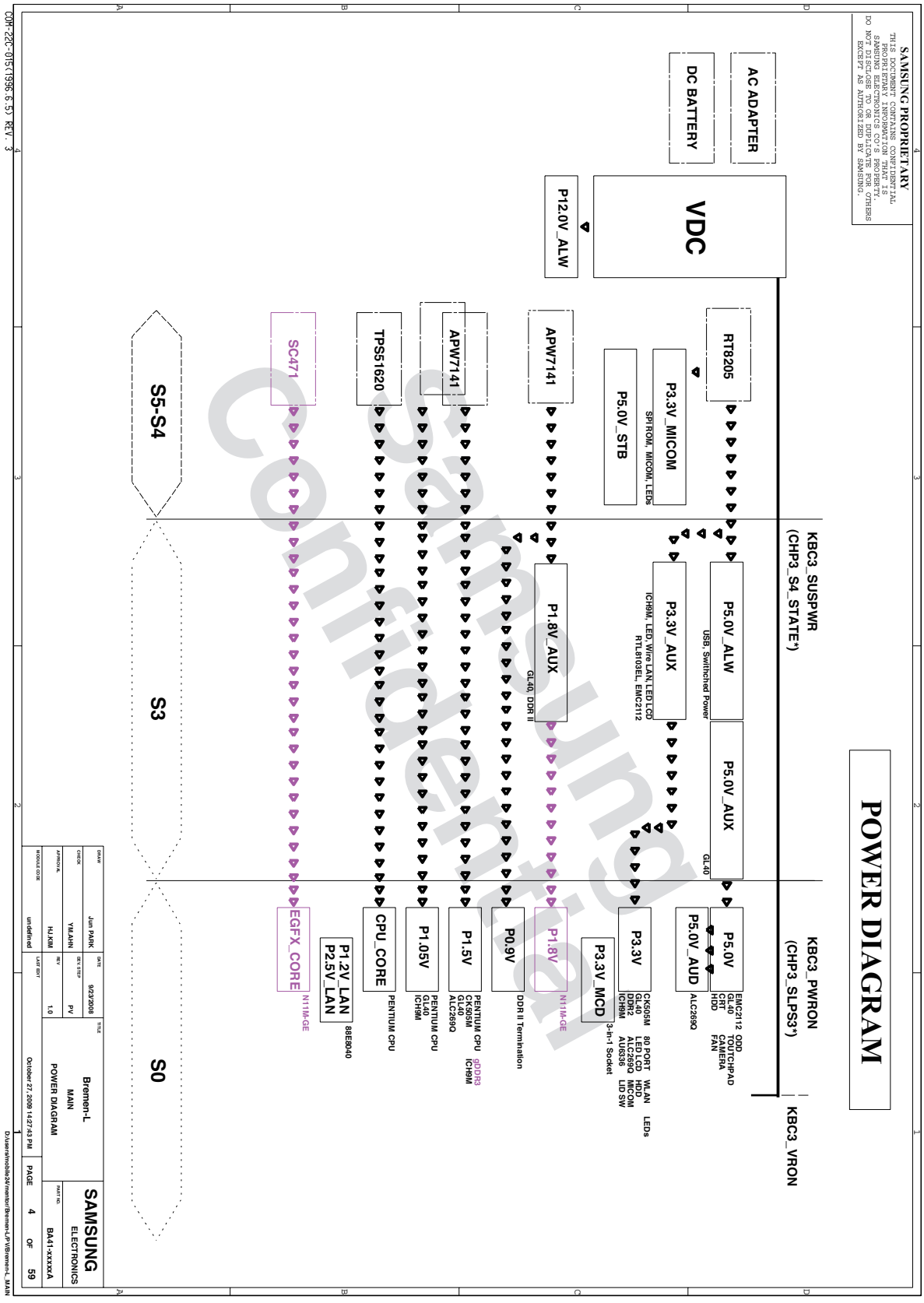
See rev notes for more information.

DRAW: Jun PARK	DATE: 9/23/2008	TITLE: Bremen-L	SAMSUNG ELECTRONICS
CHECK: YM.AHN	DEV. STEP: PV	MAIN	
APPROVAL: HJ.KIM	REV: 1.0	BOARD INFO	PART NO.: BA41-xxxxxA
MODULE CODE: undefined	LAST EDIT: October 27, 2009 14:27:43 PM	PAGE 3 OF 59	

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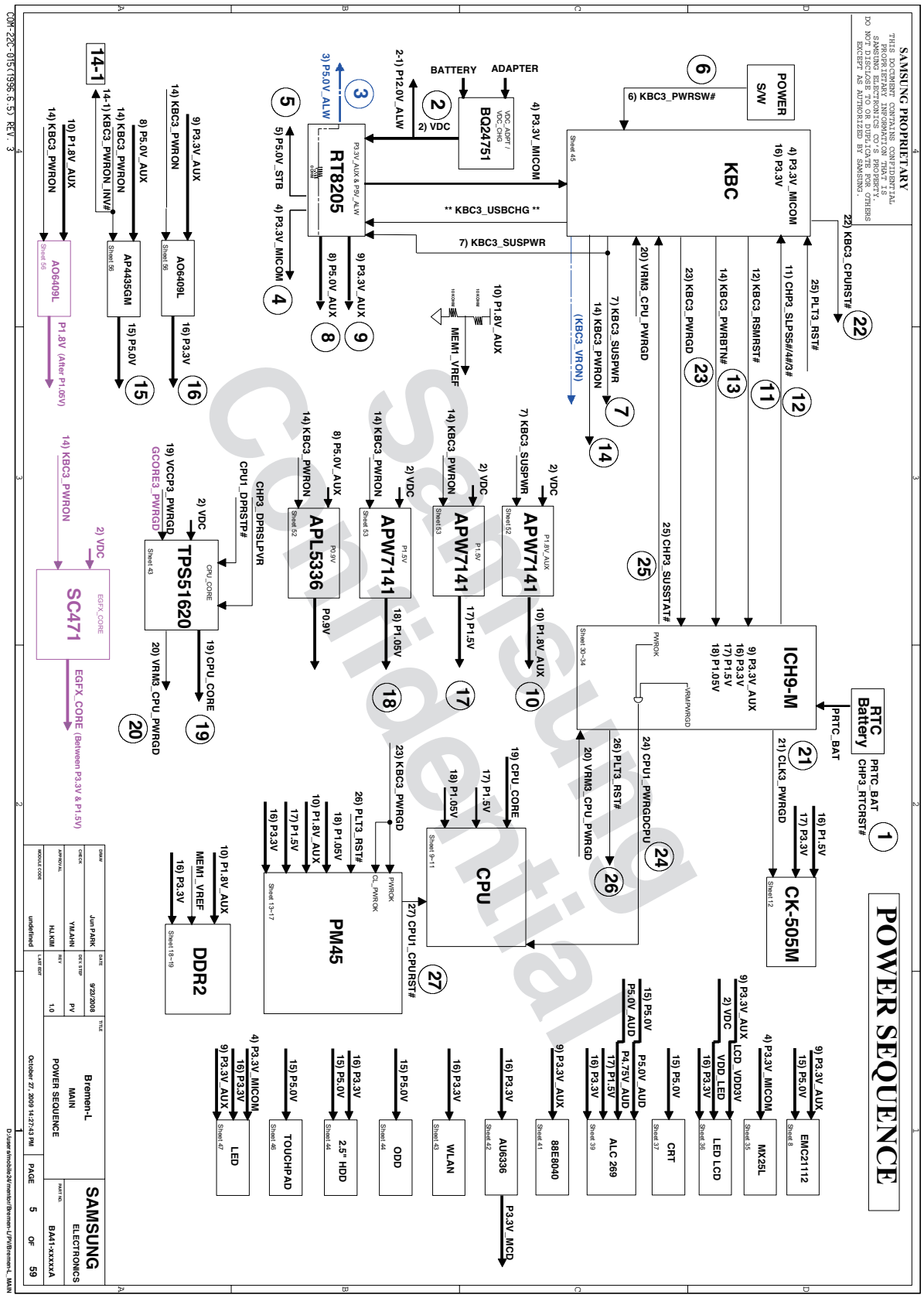
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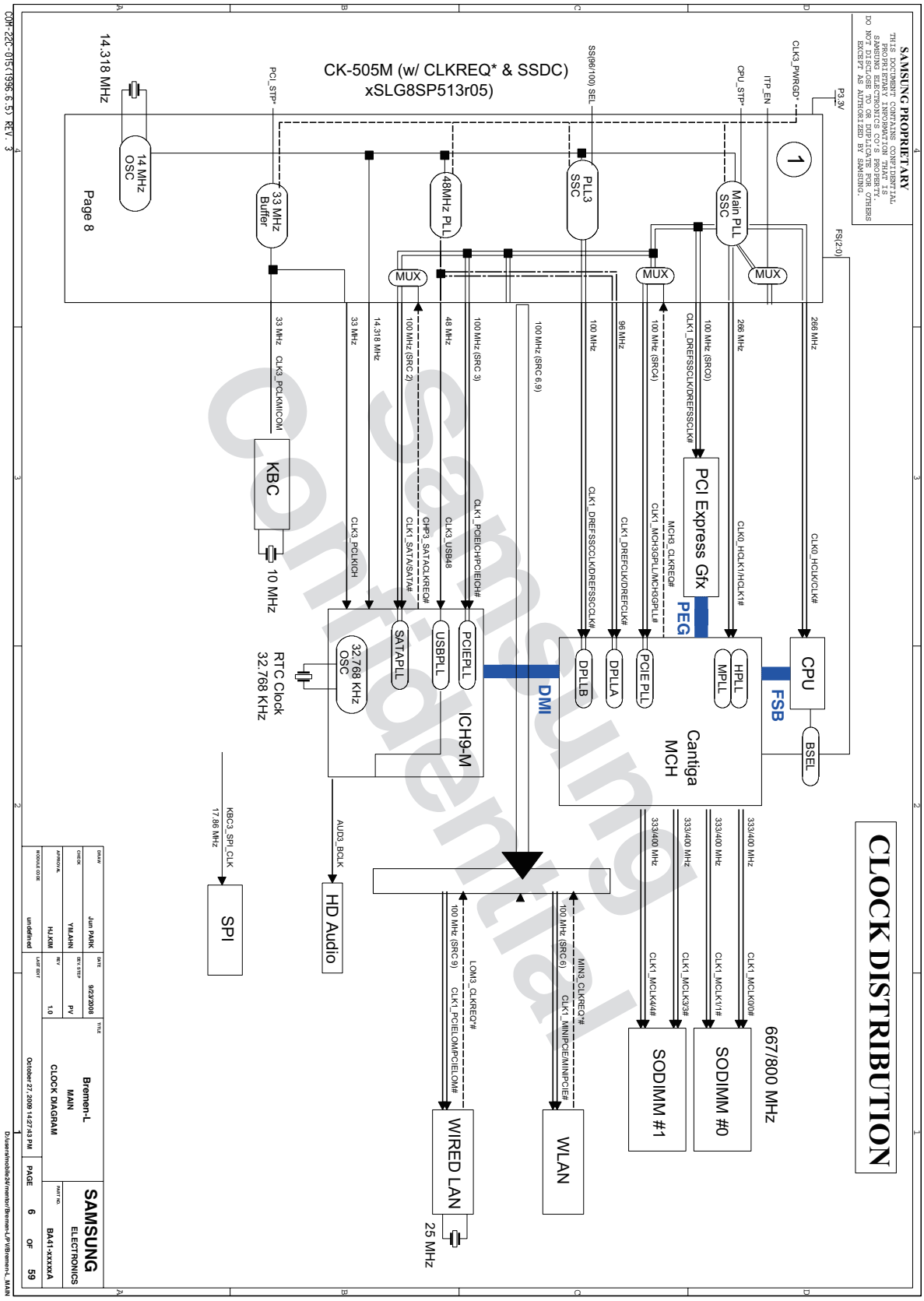
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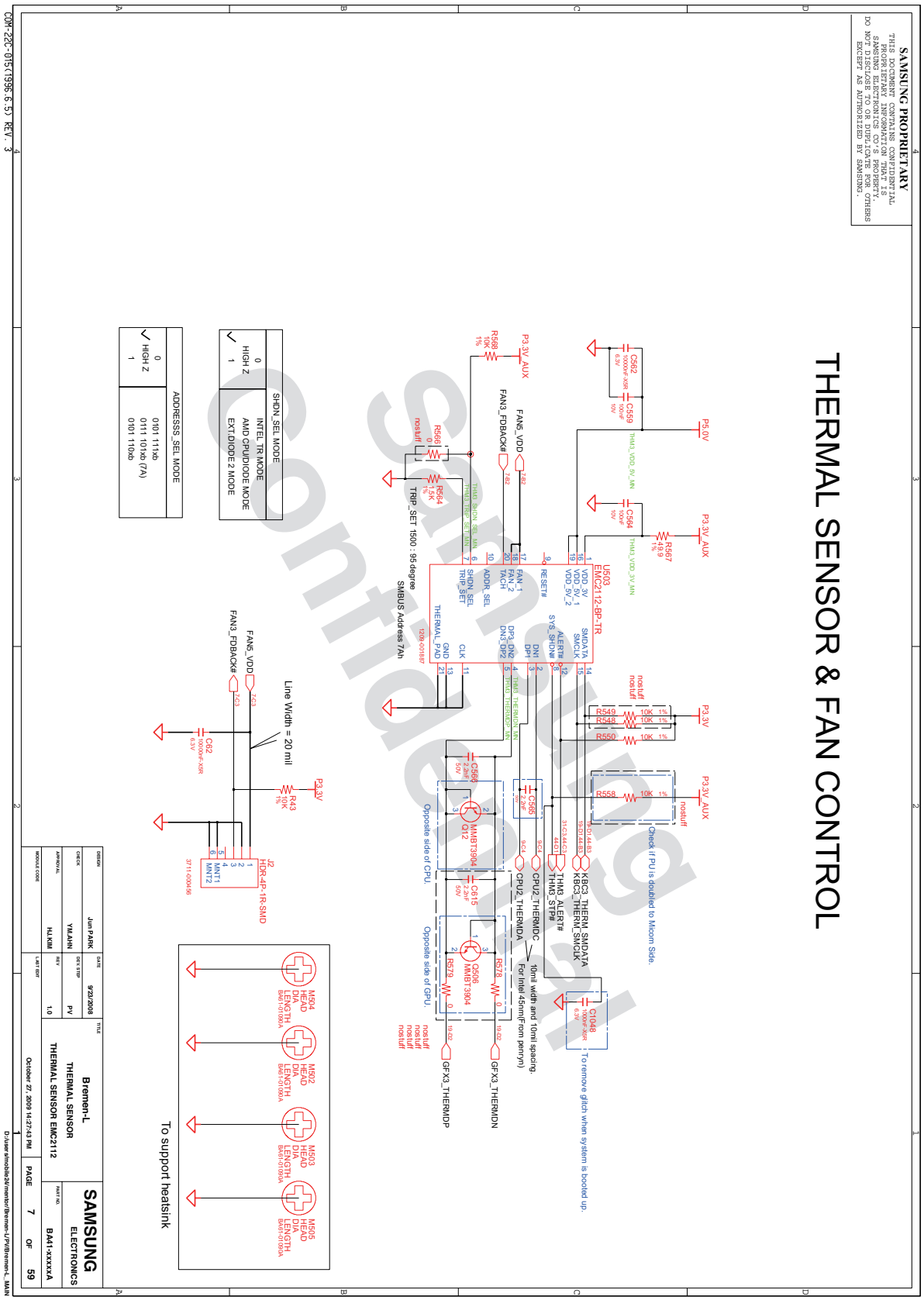


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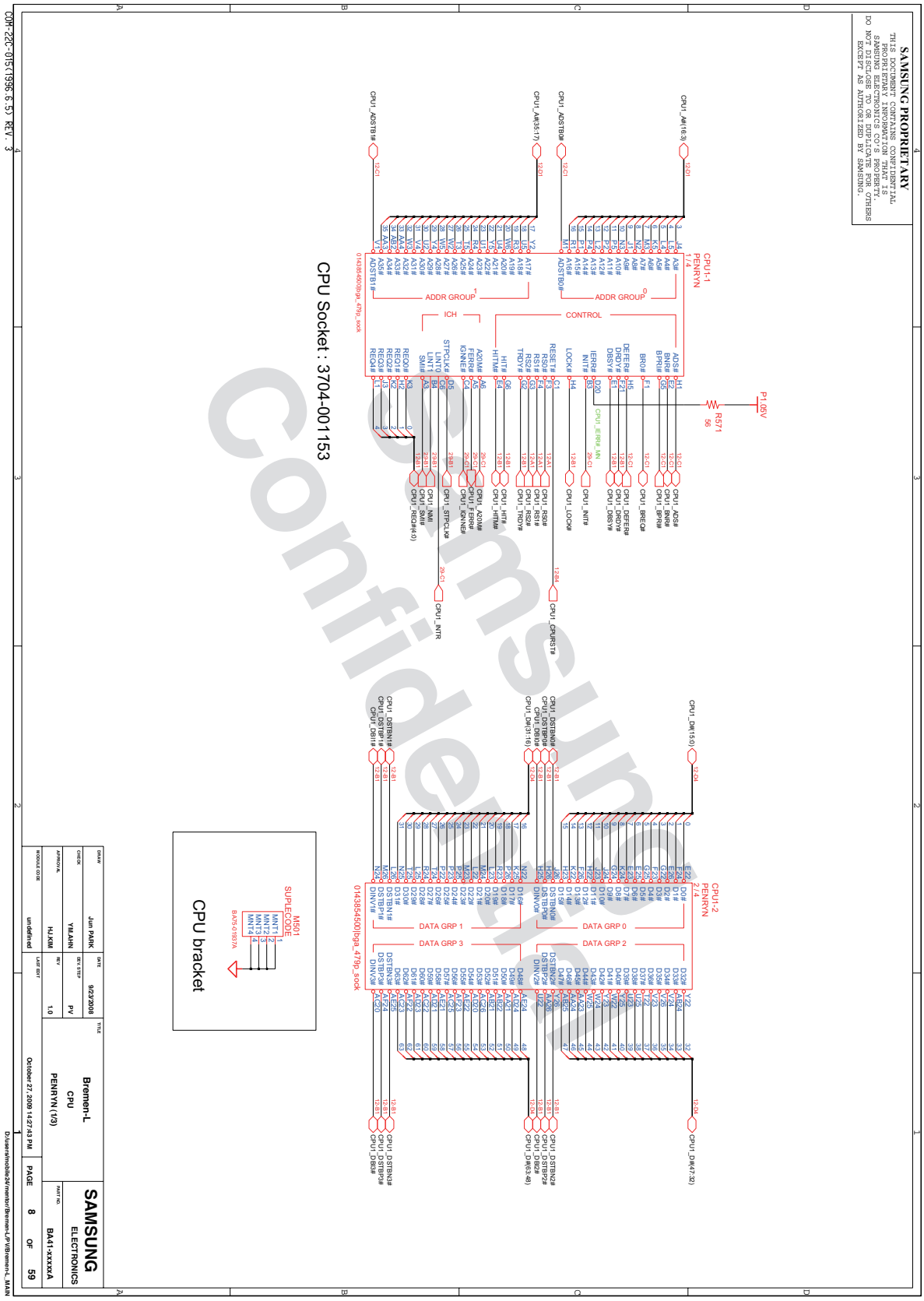
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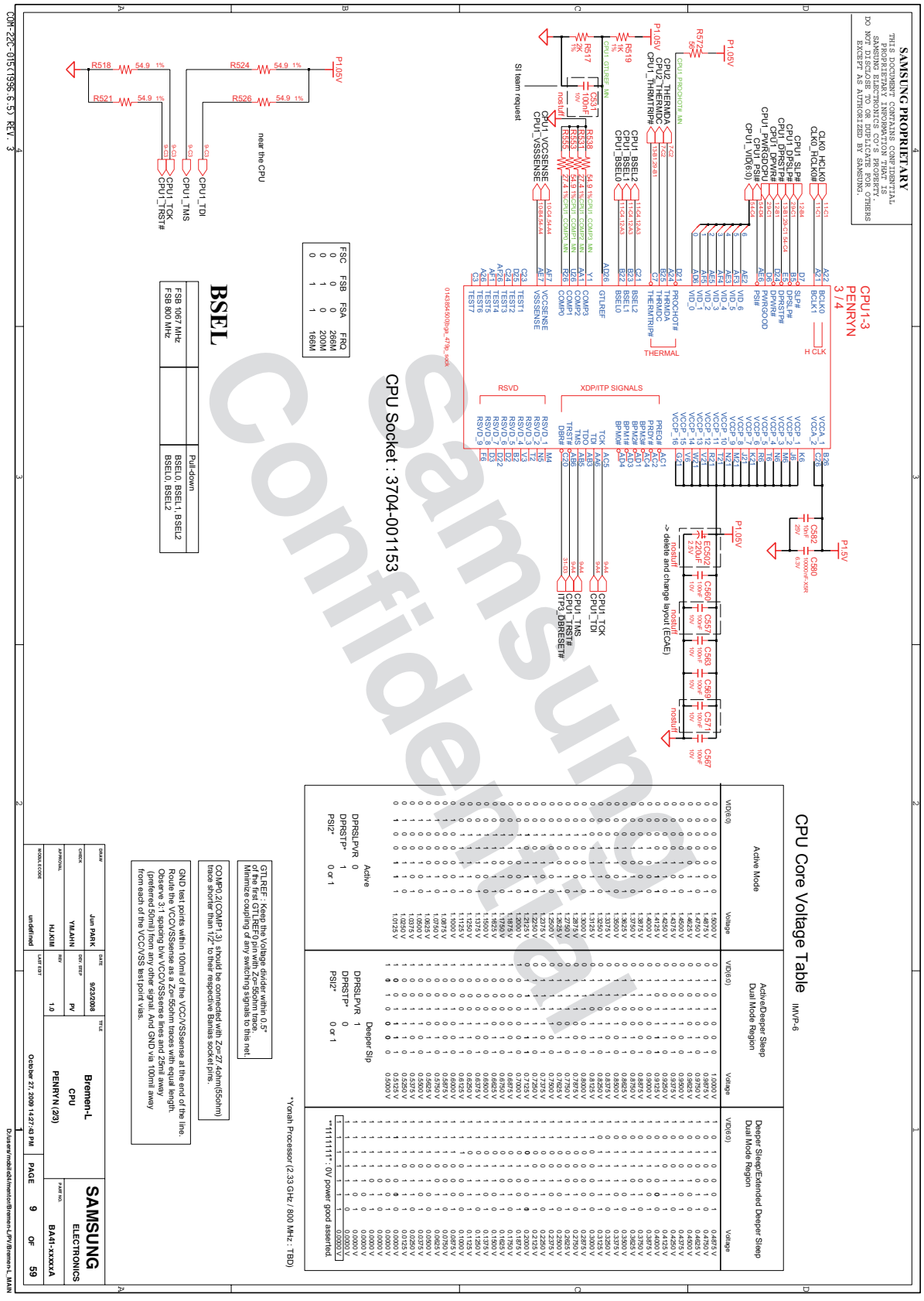


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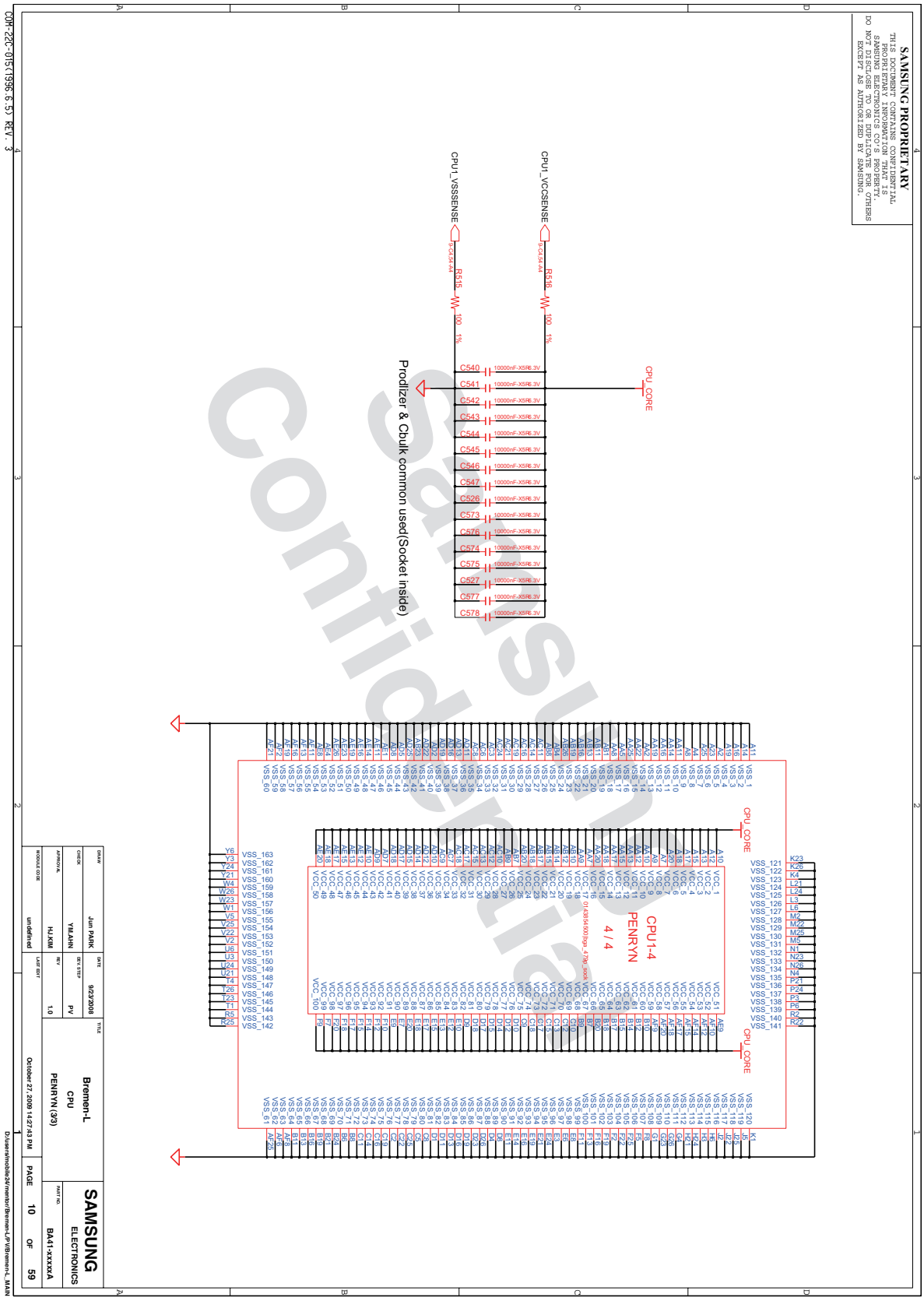
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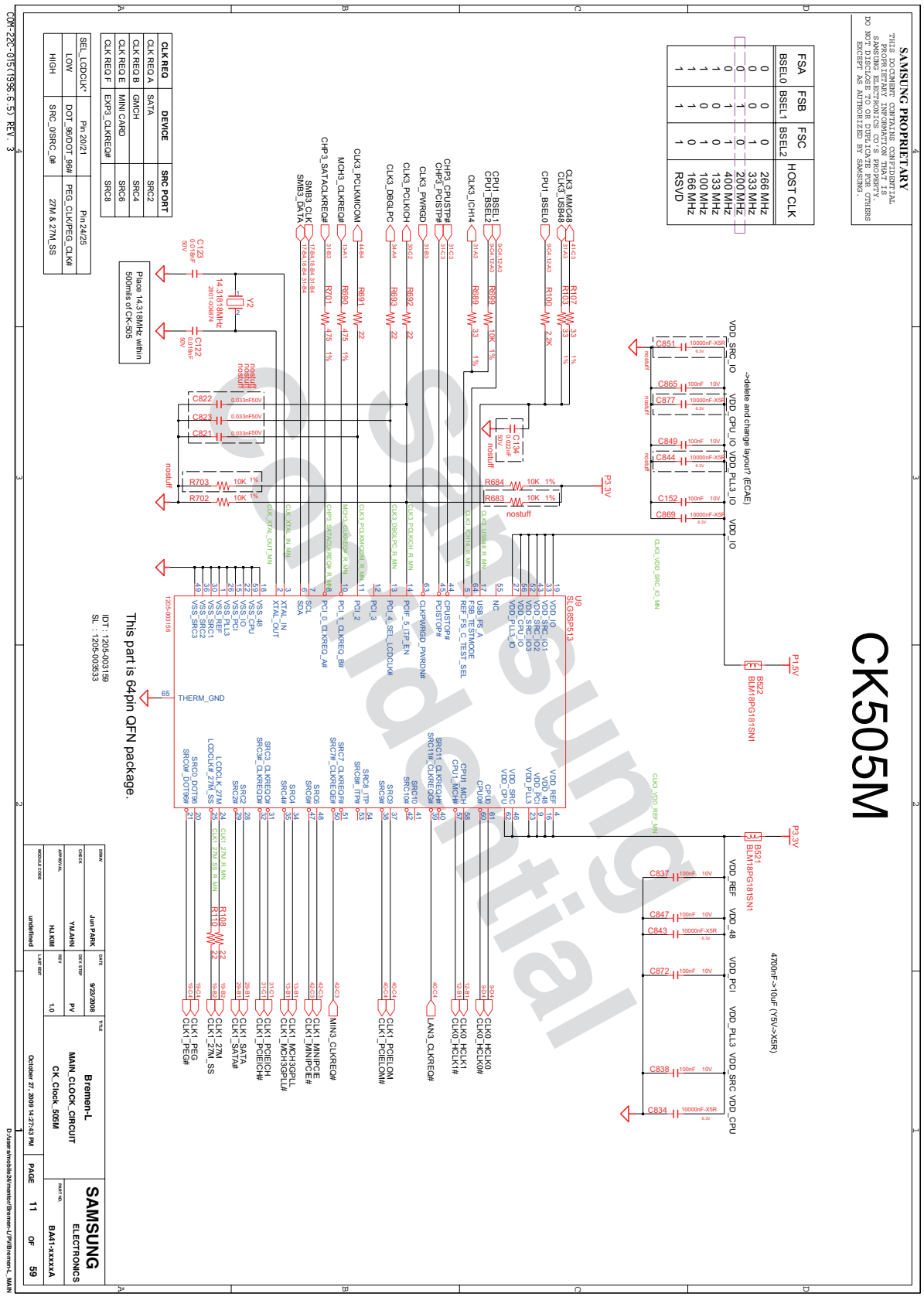
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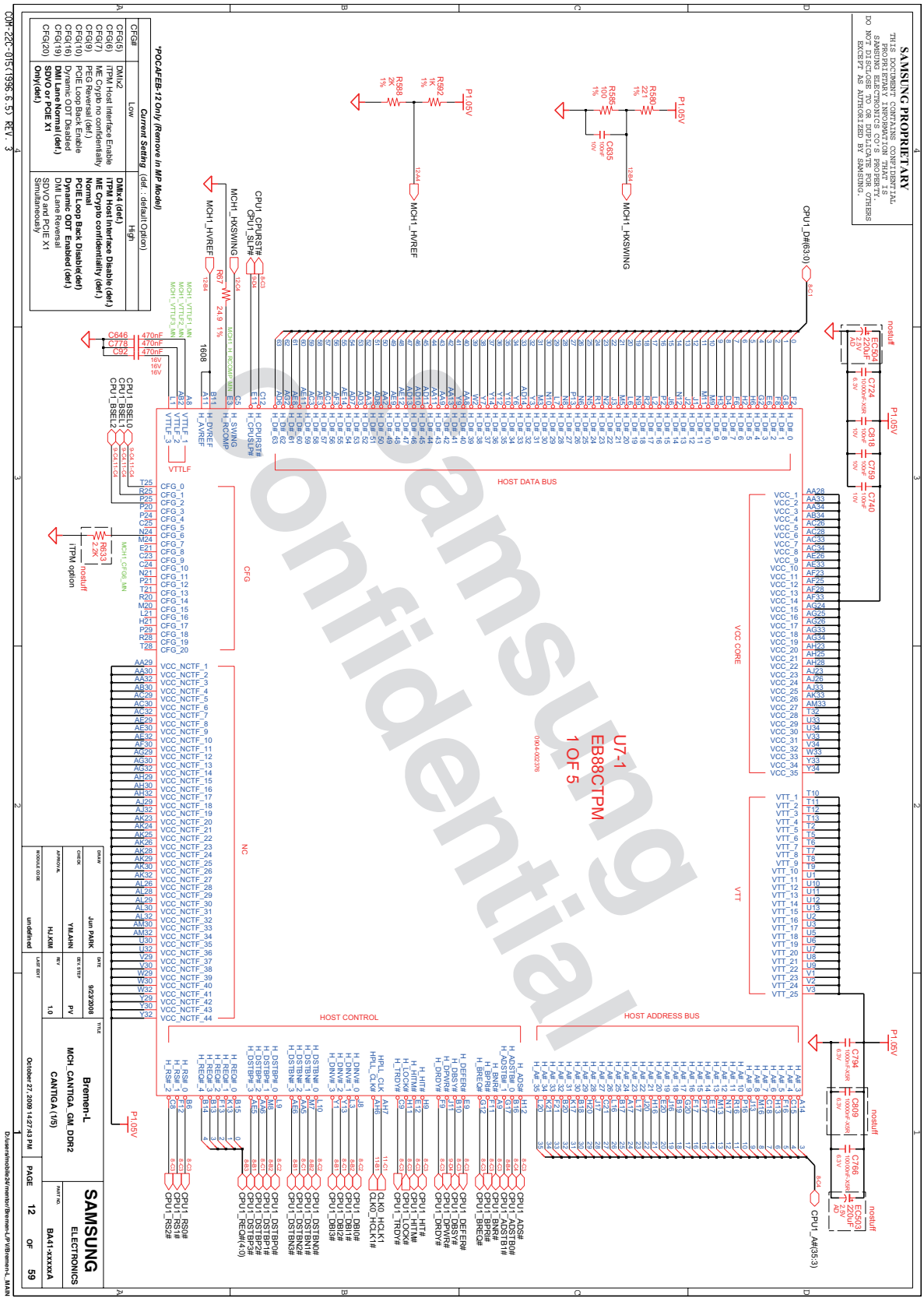
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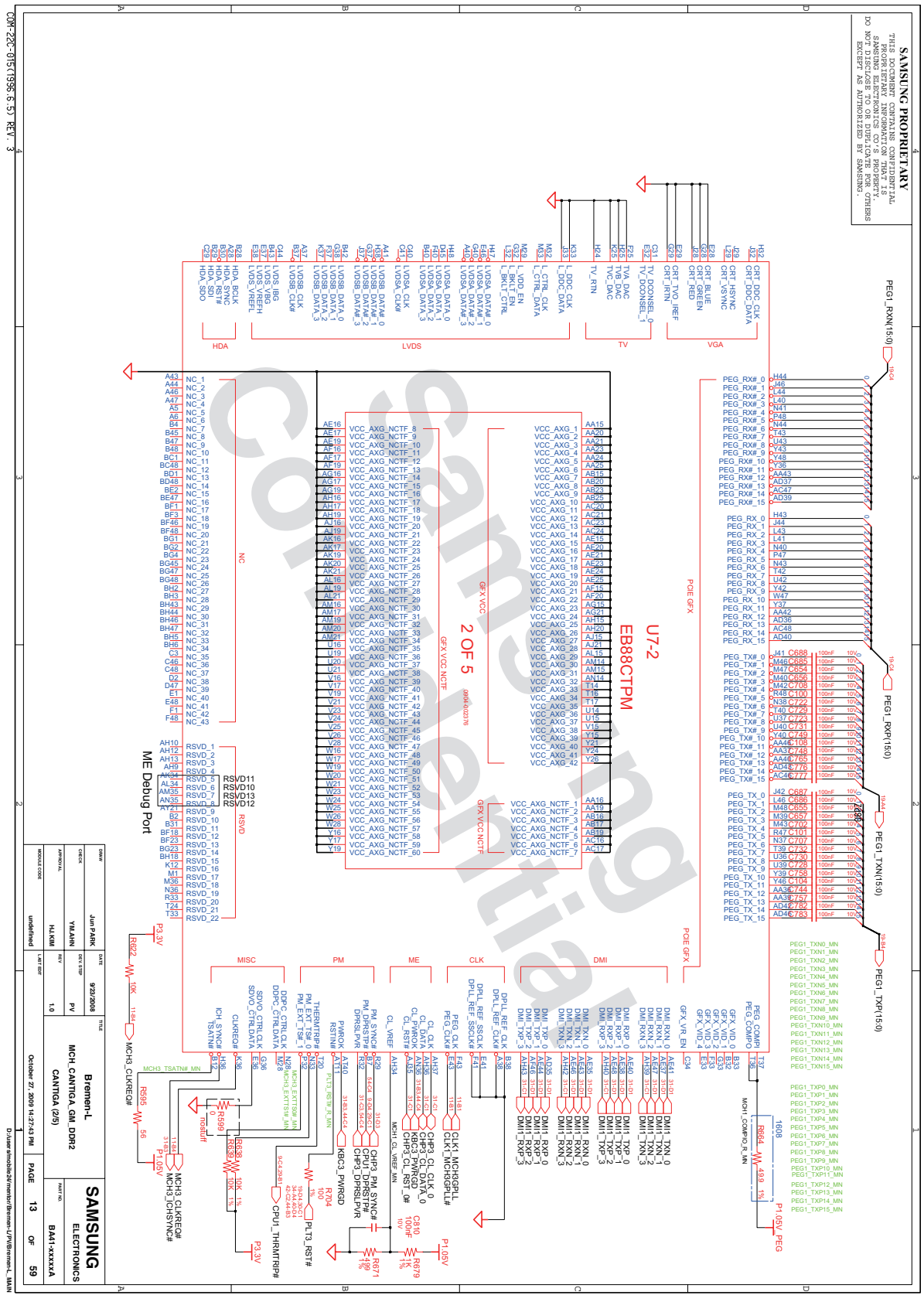


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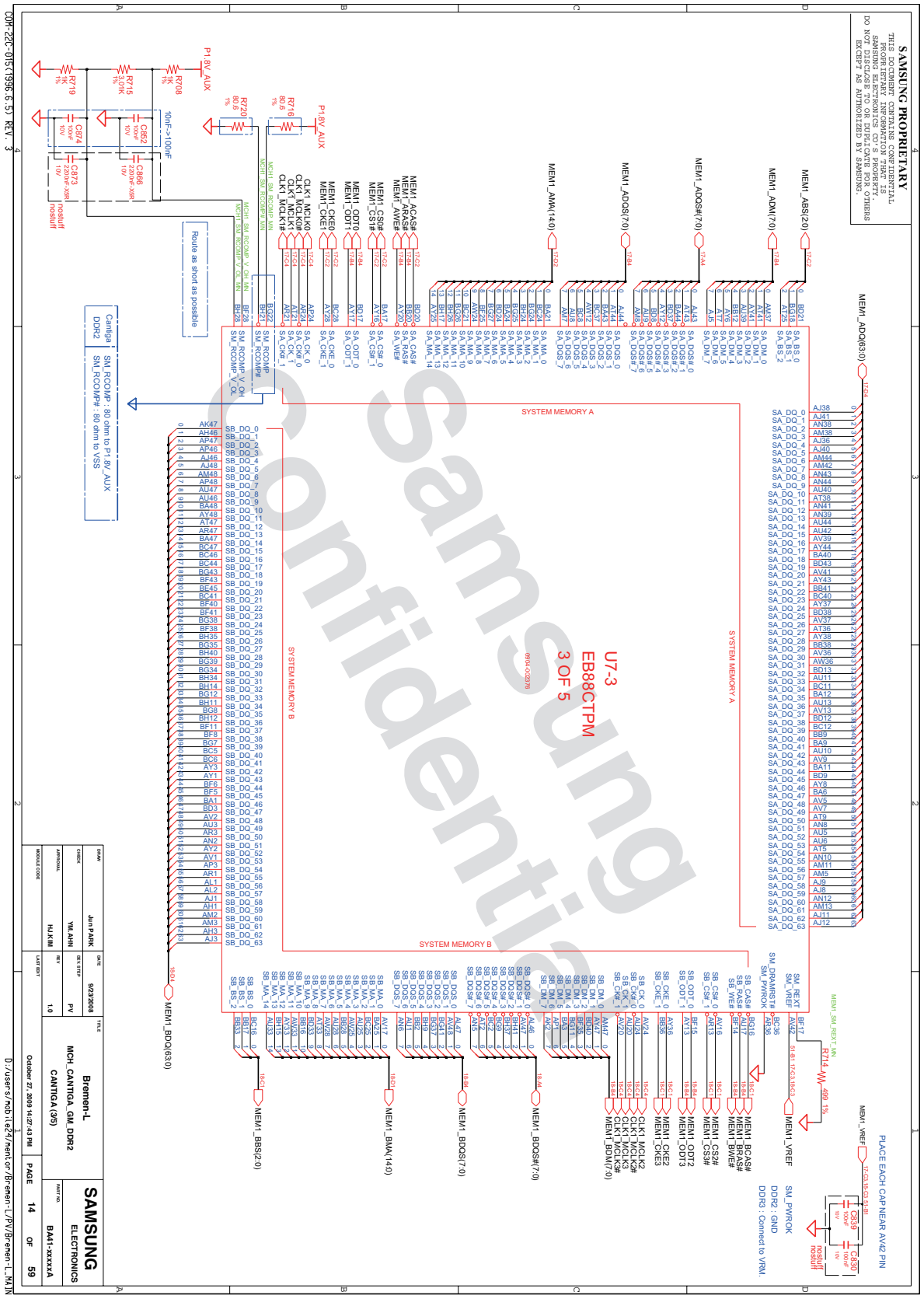
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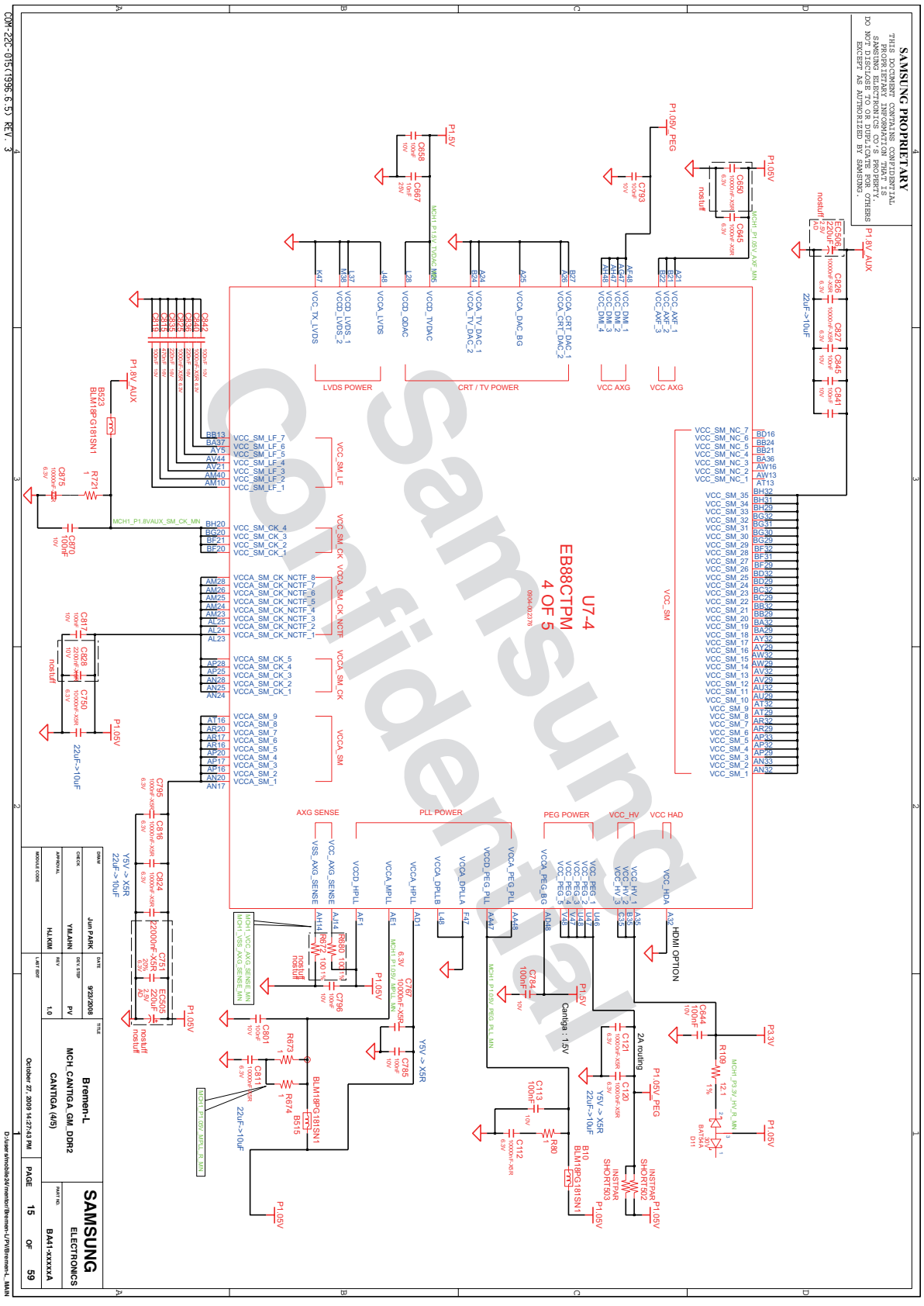
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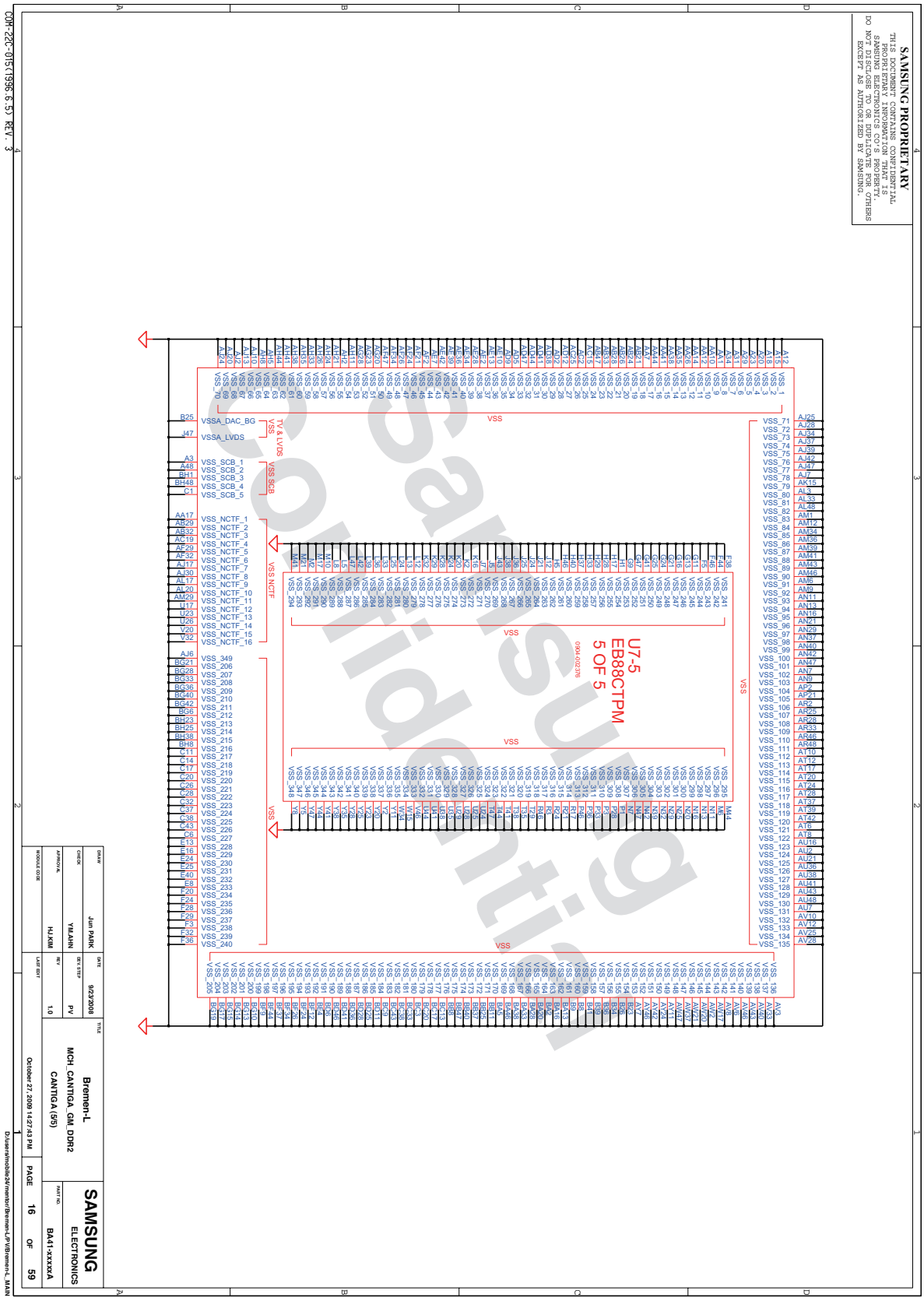
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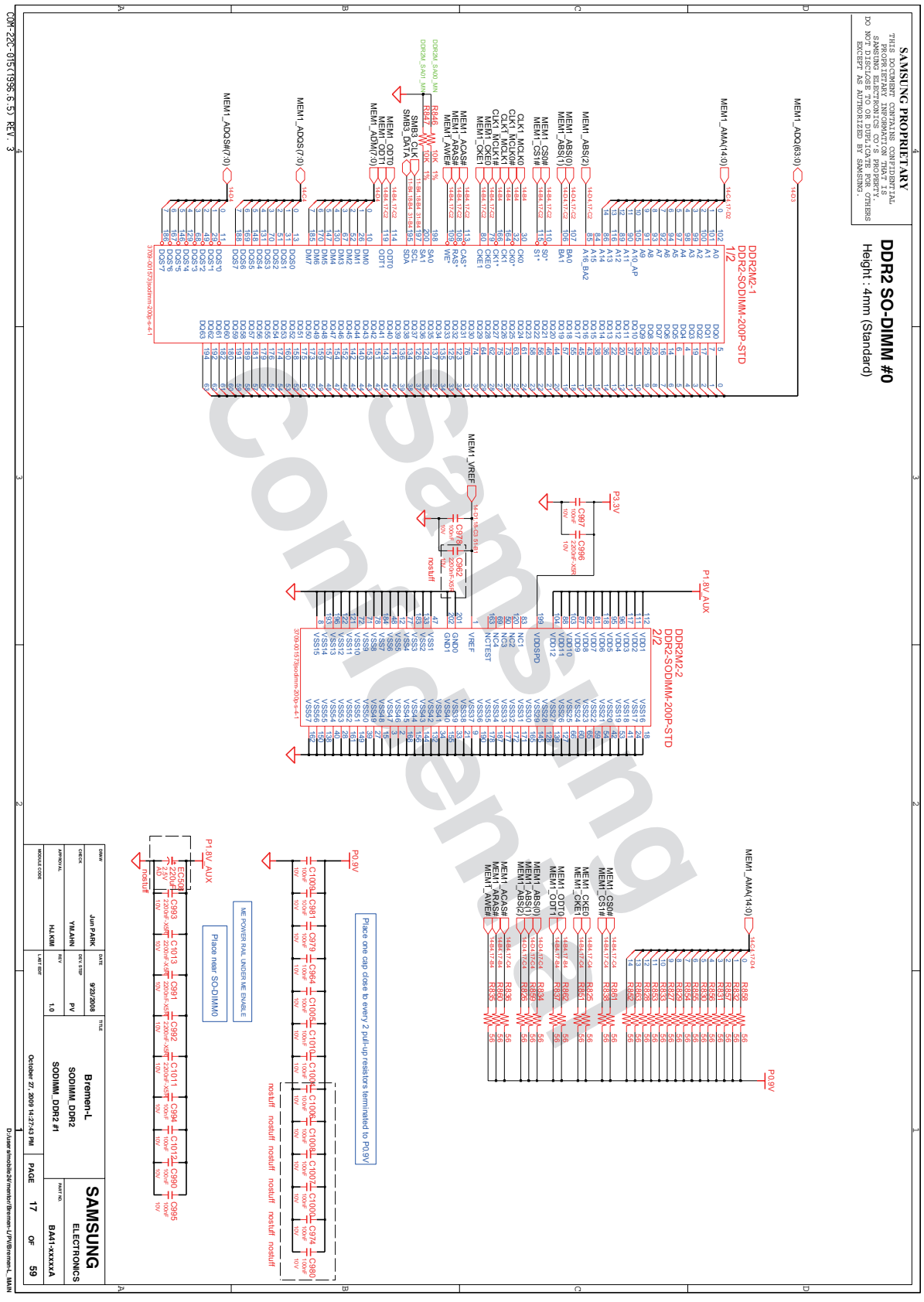
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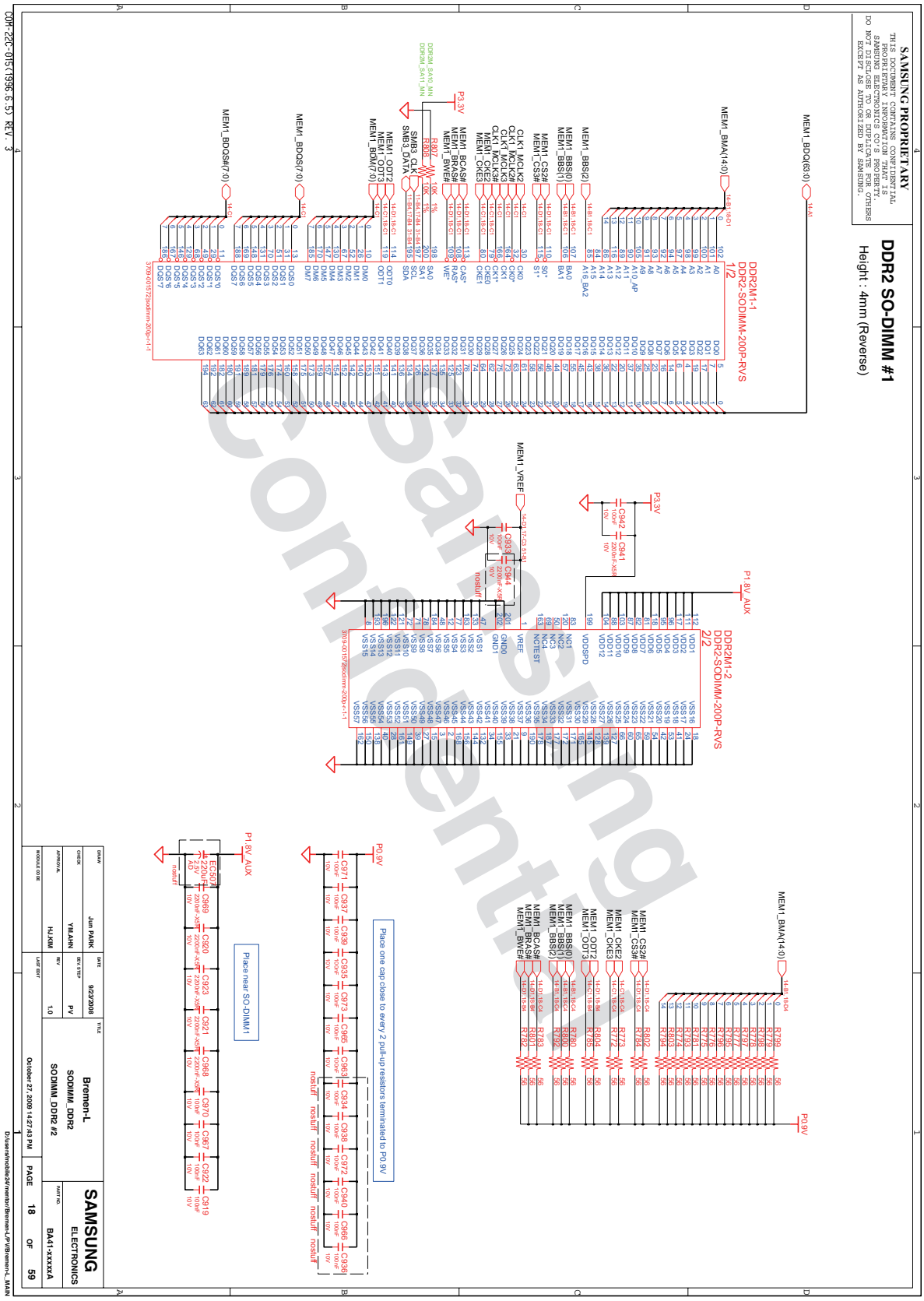
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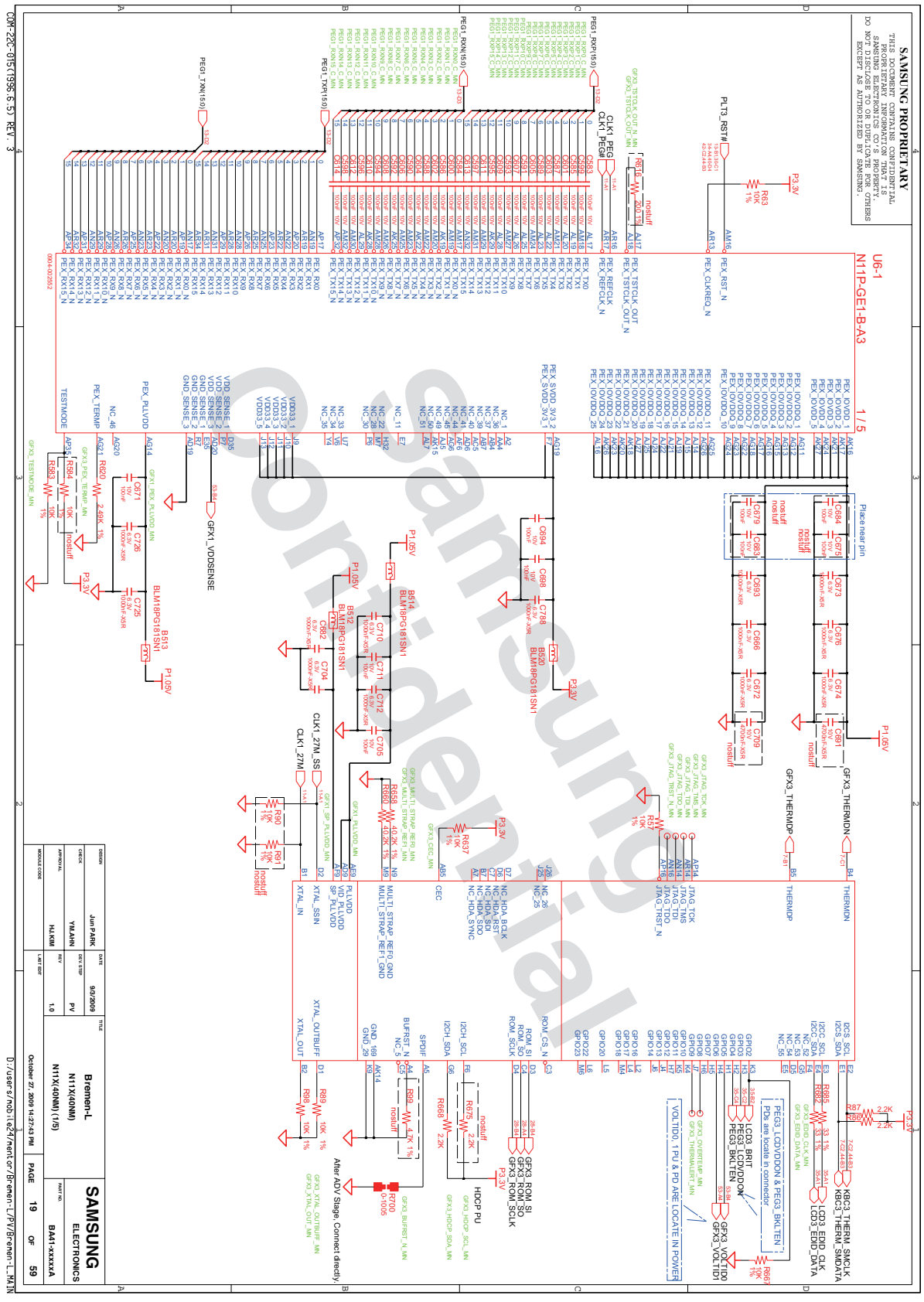
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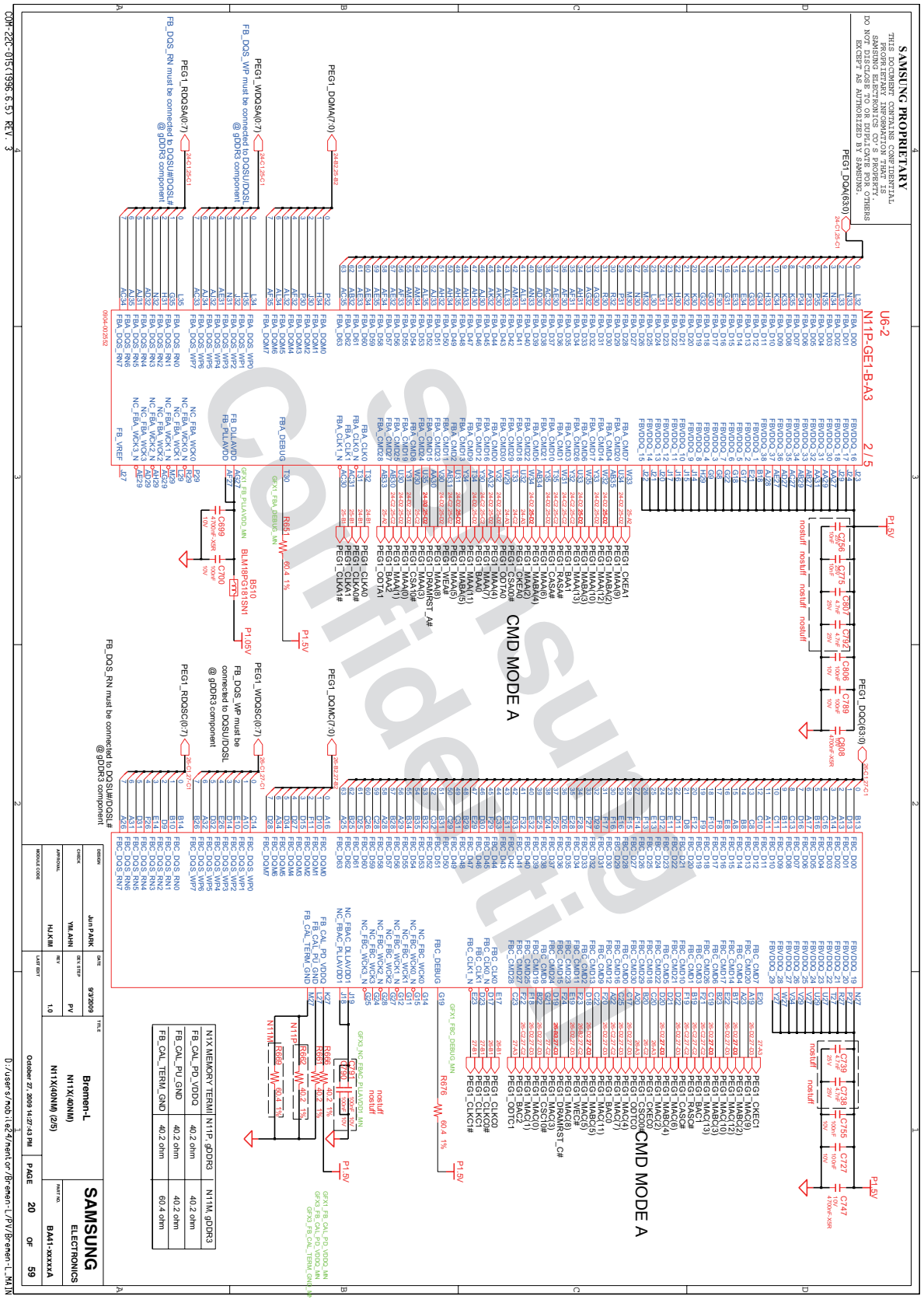


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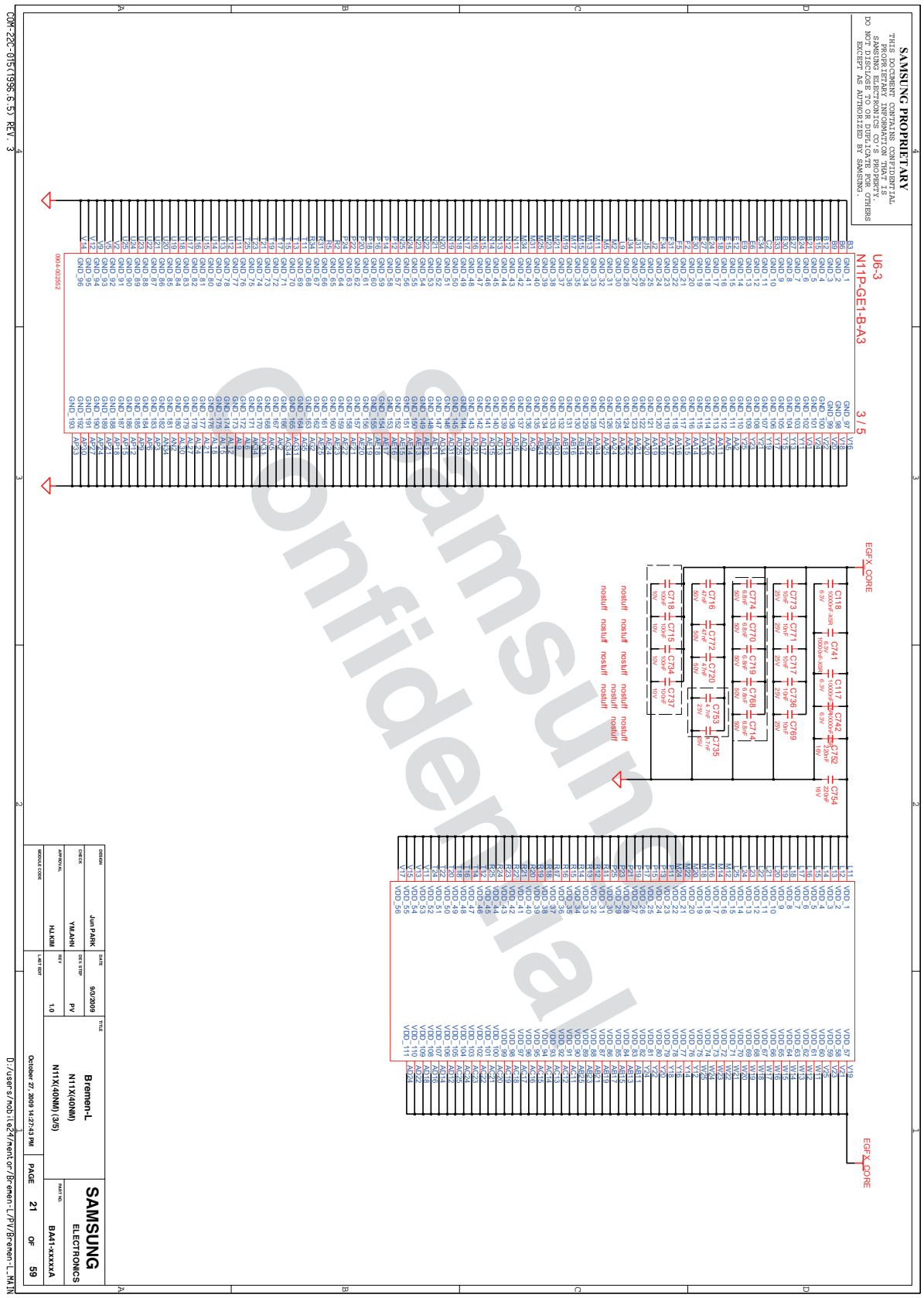


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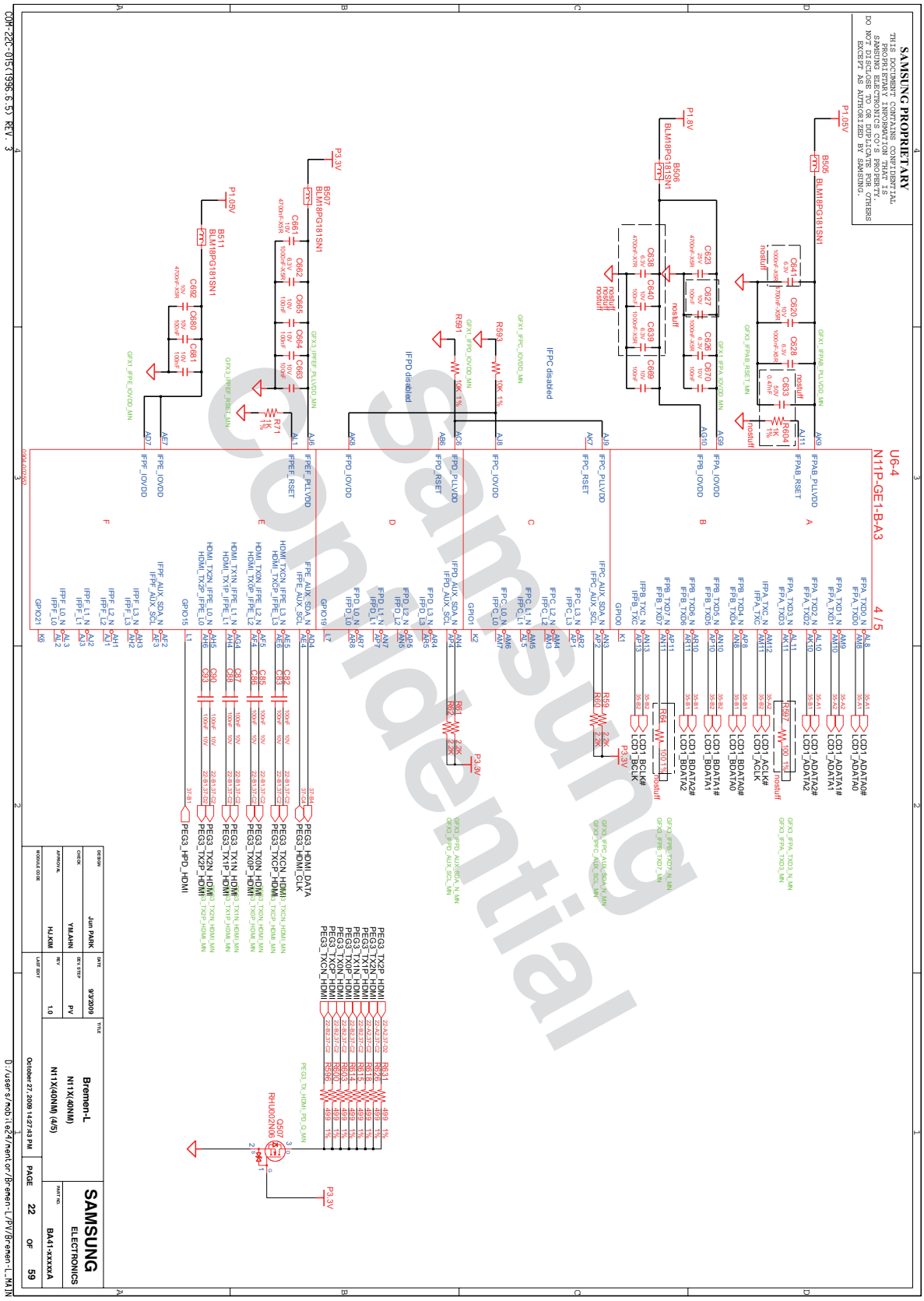


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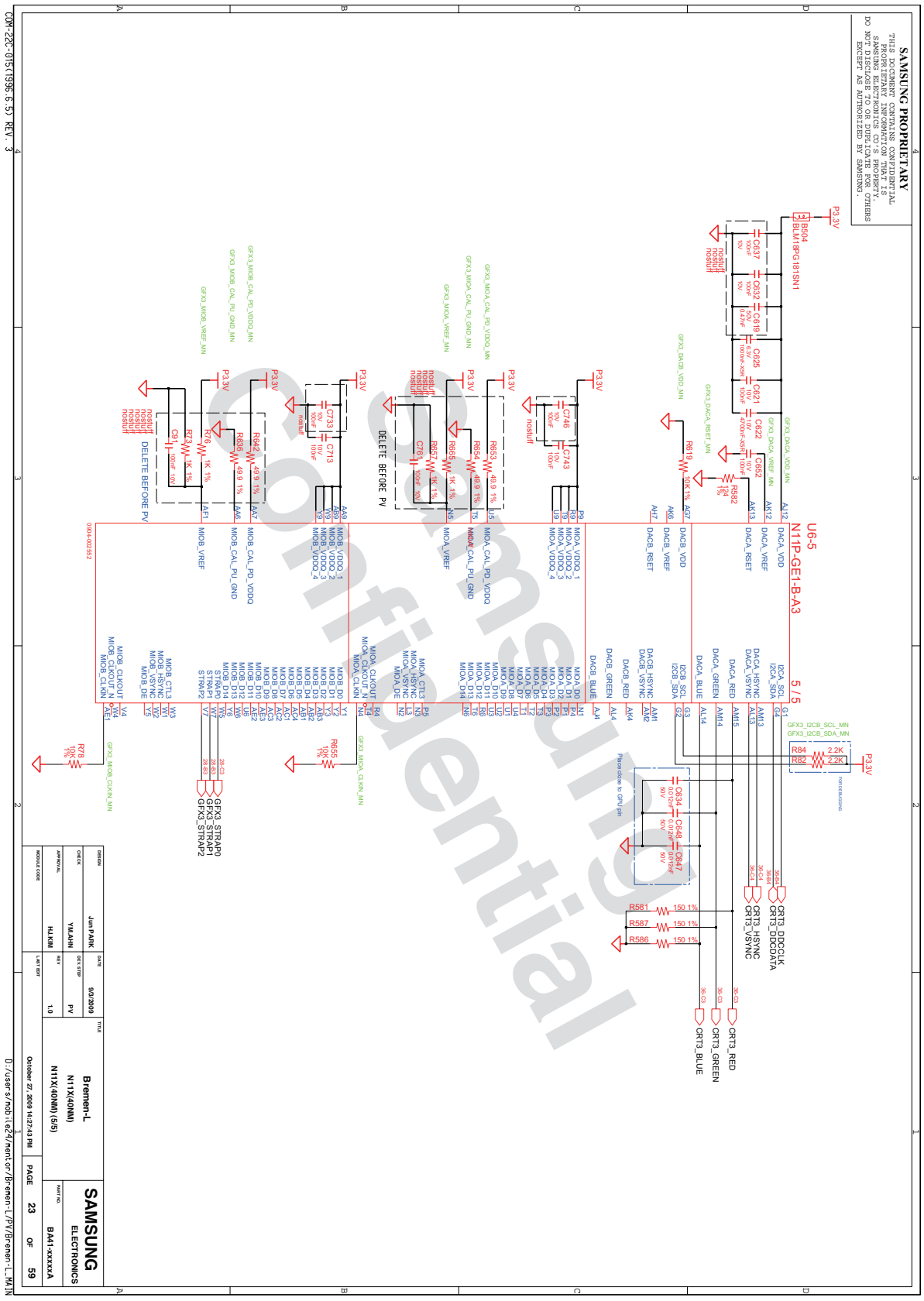
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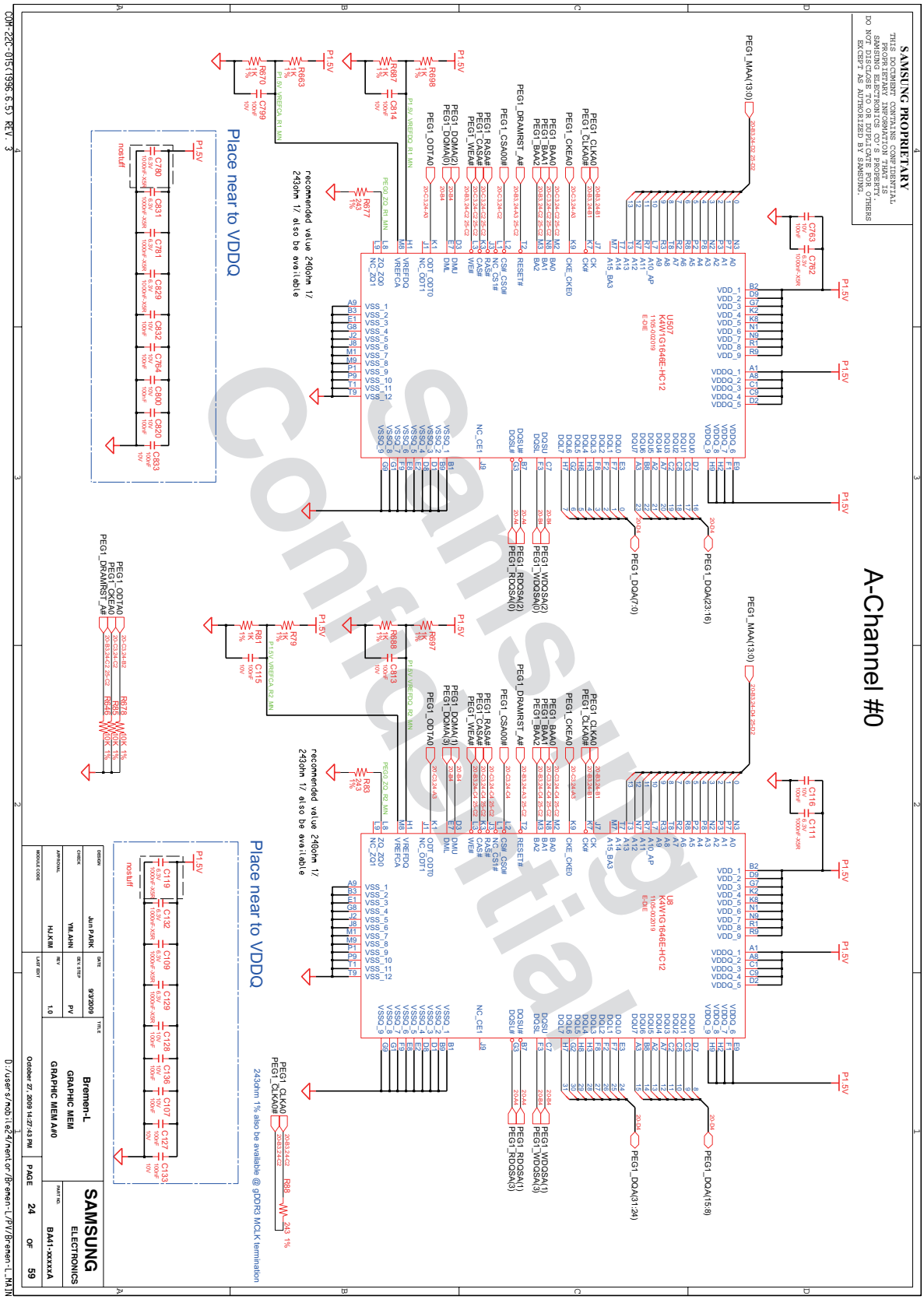
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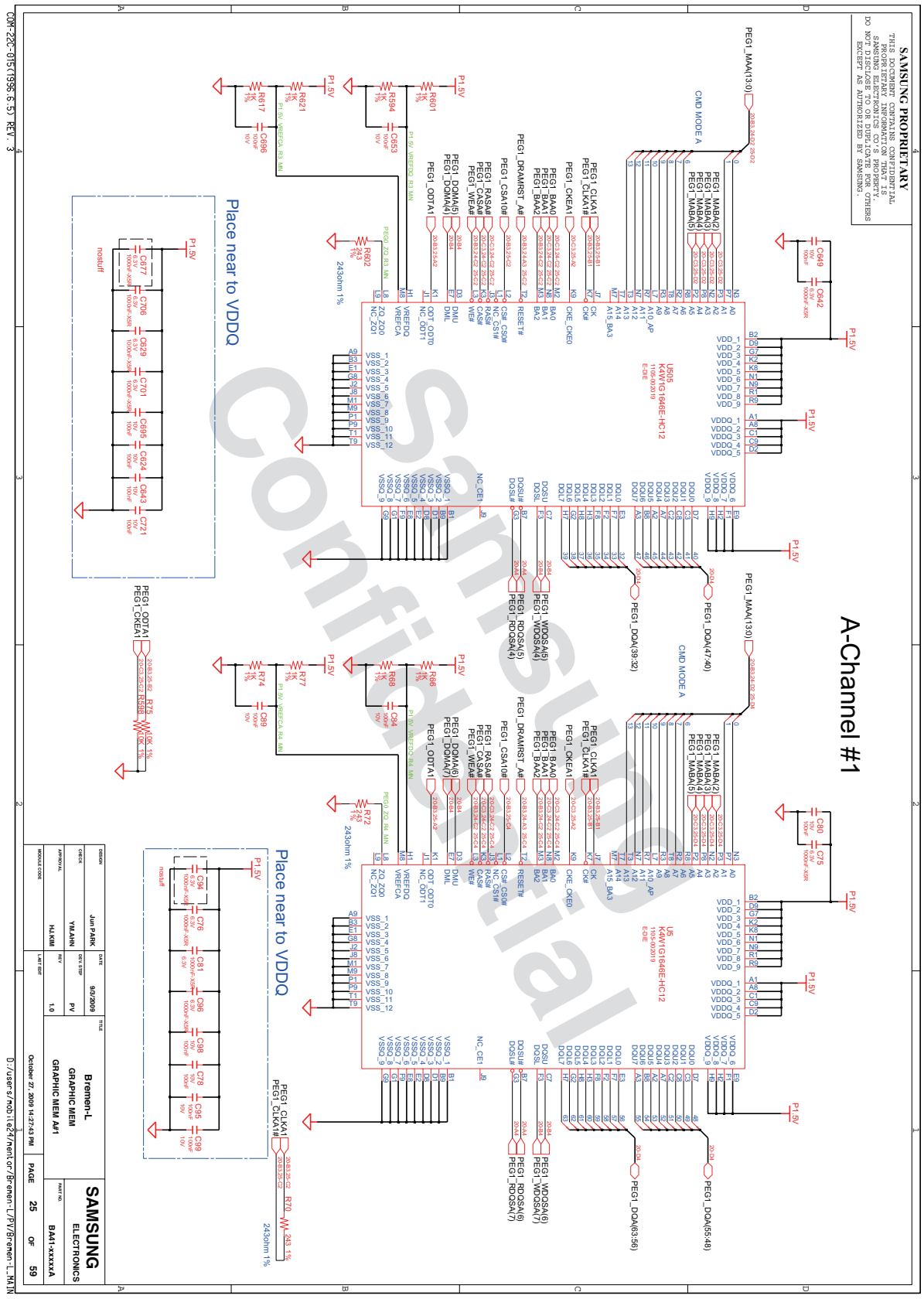
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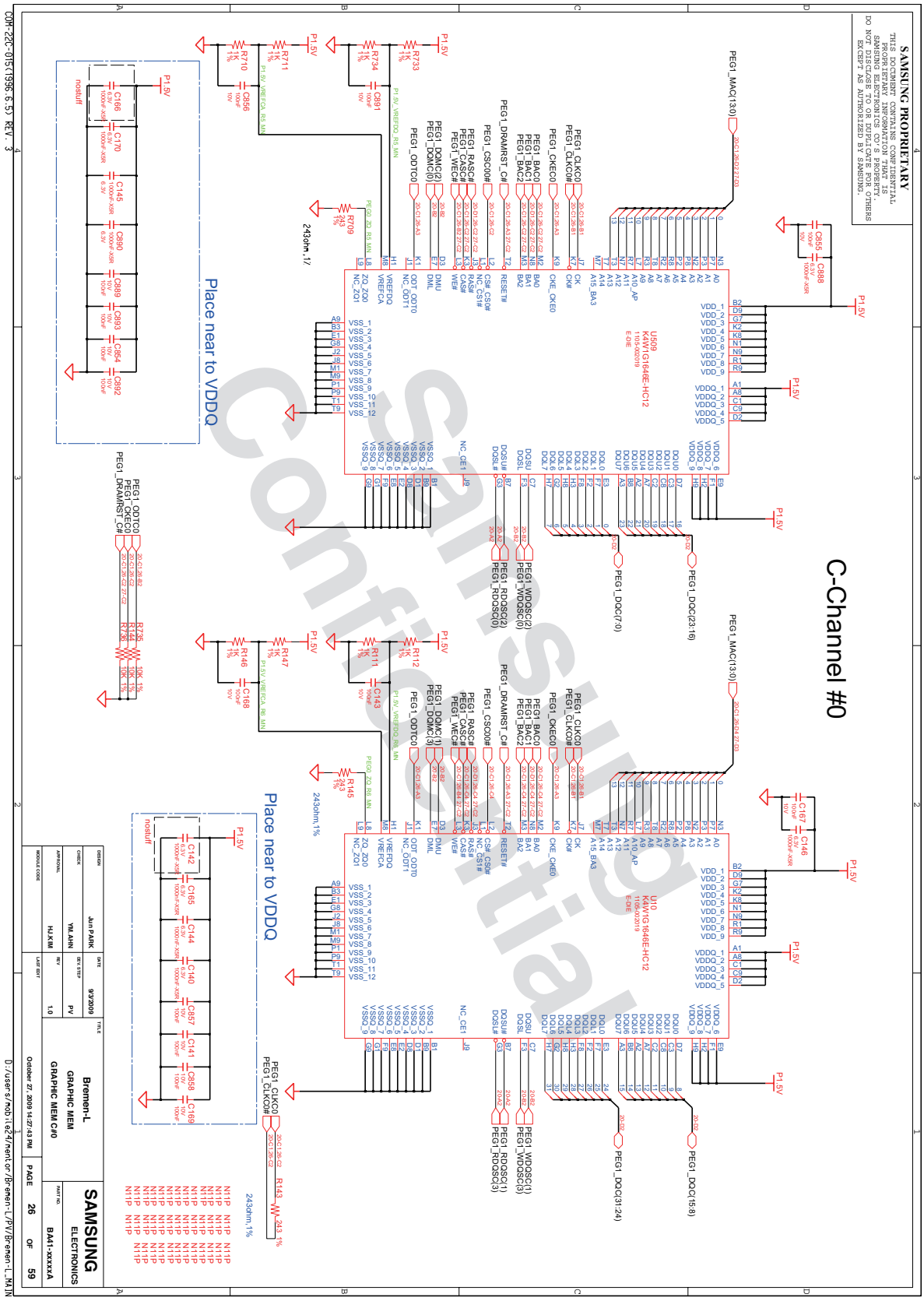
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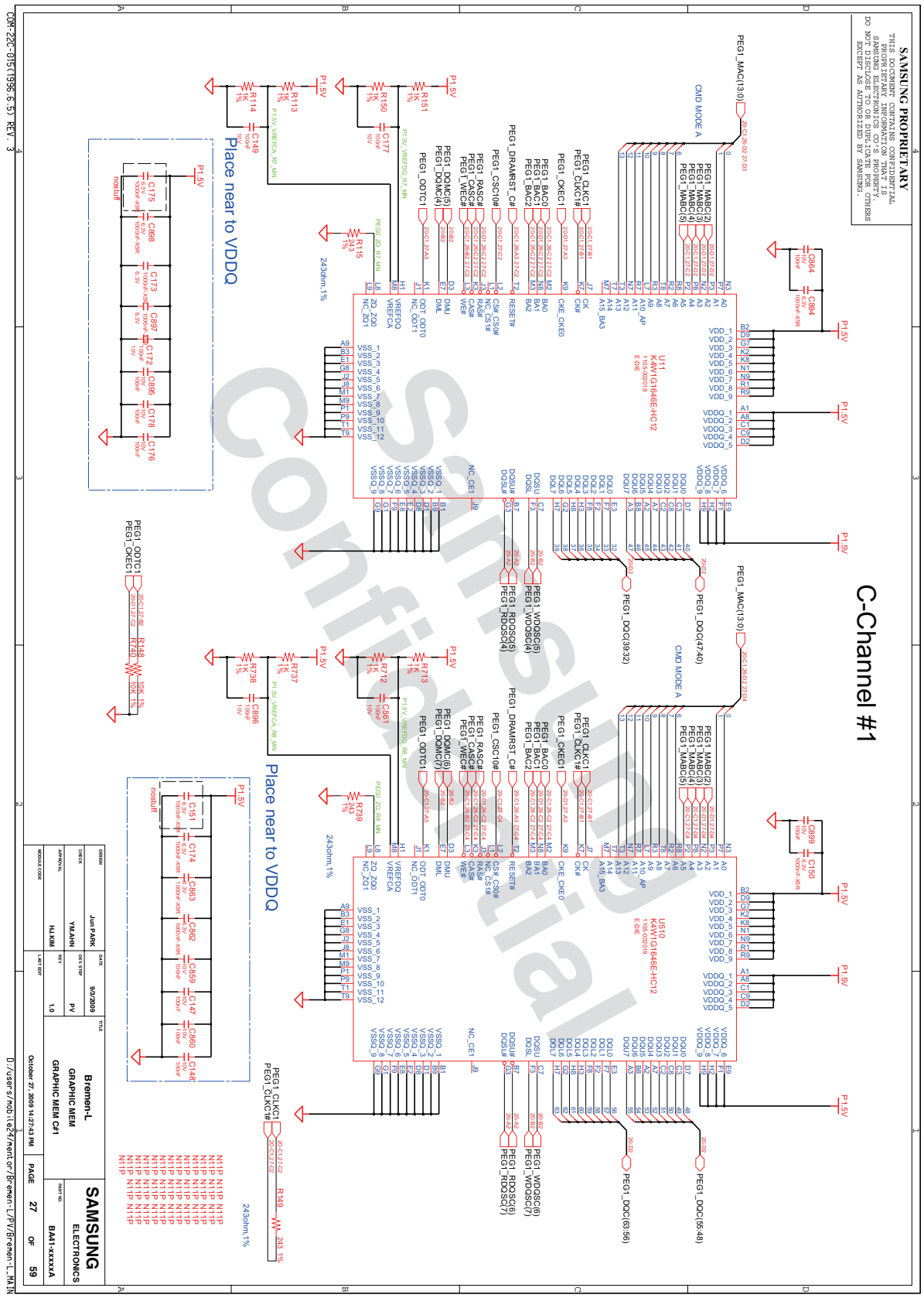
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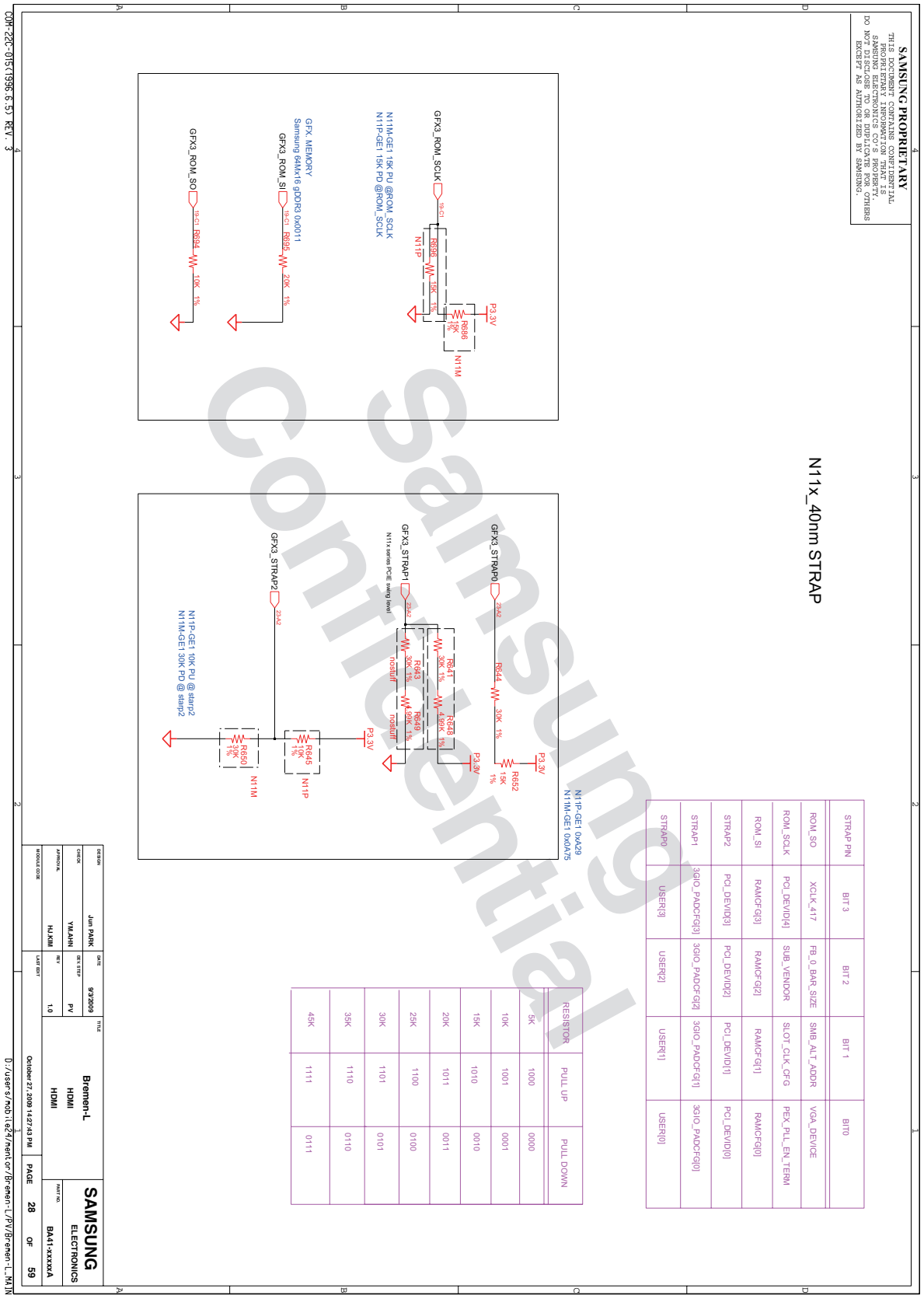
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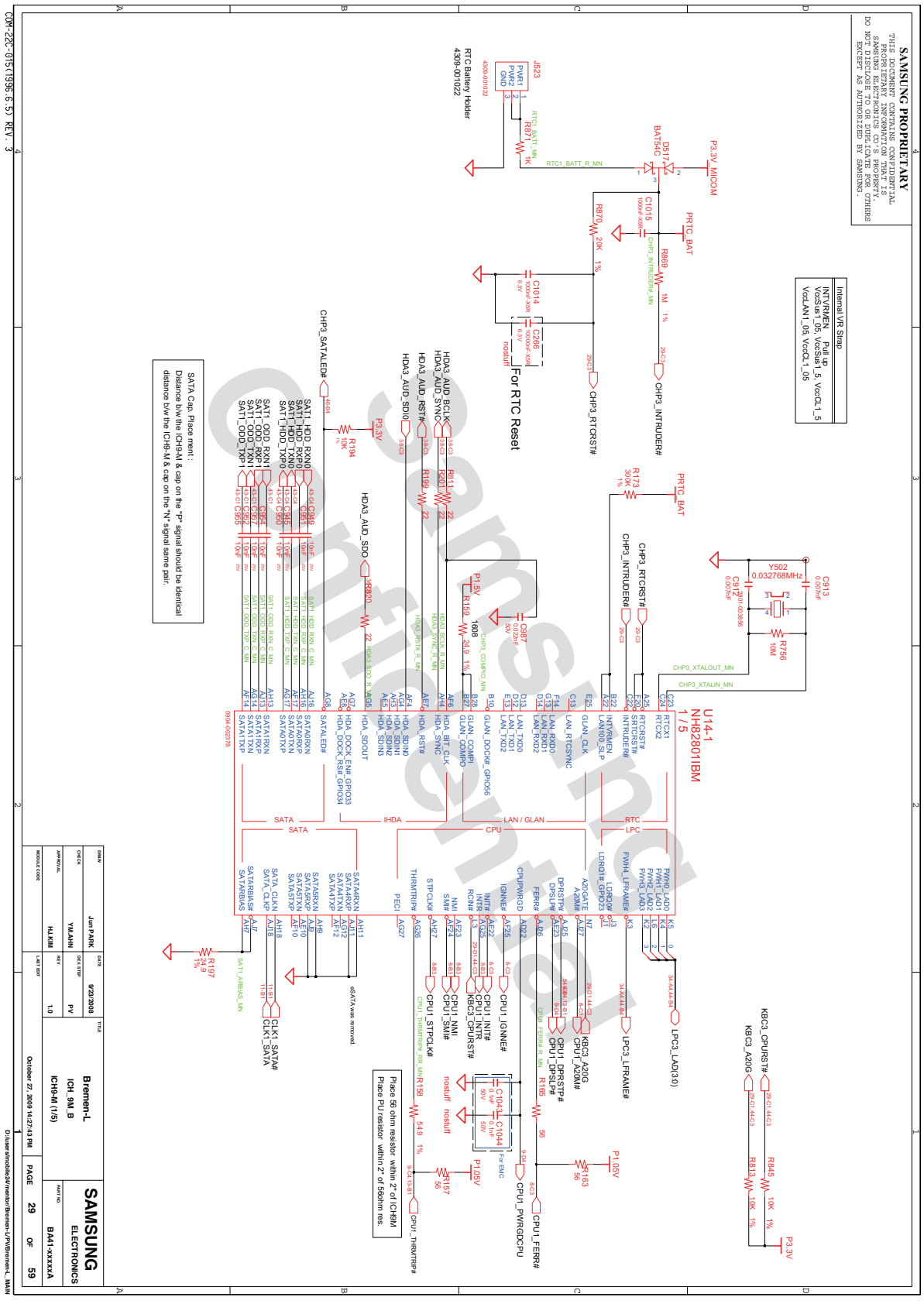
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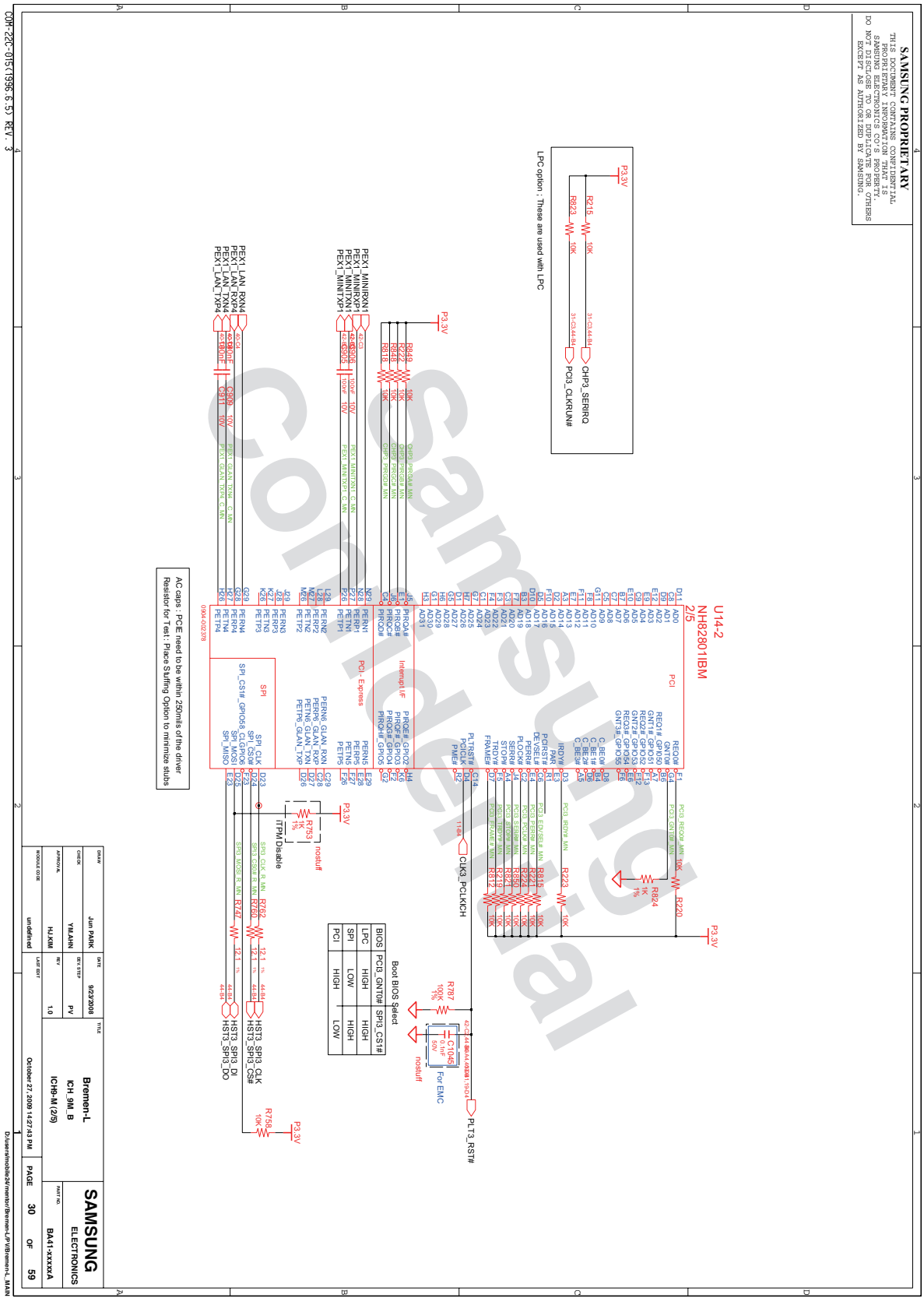
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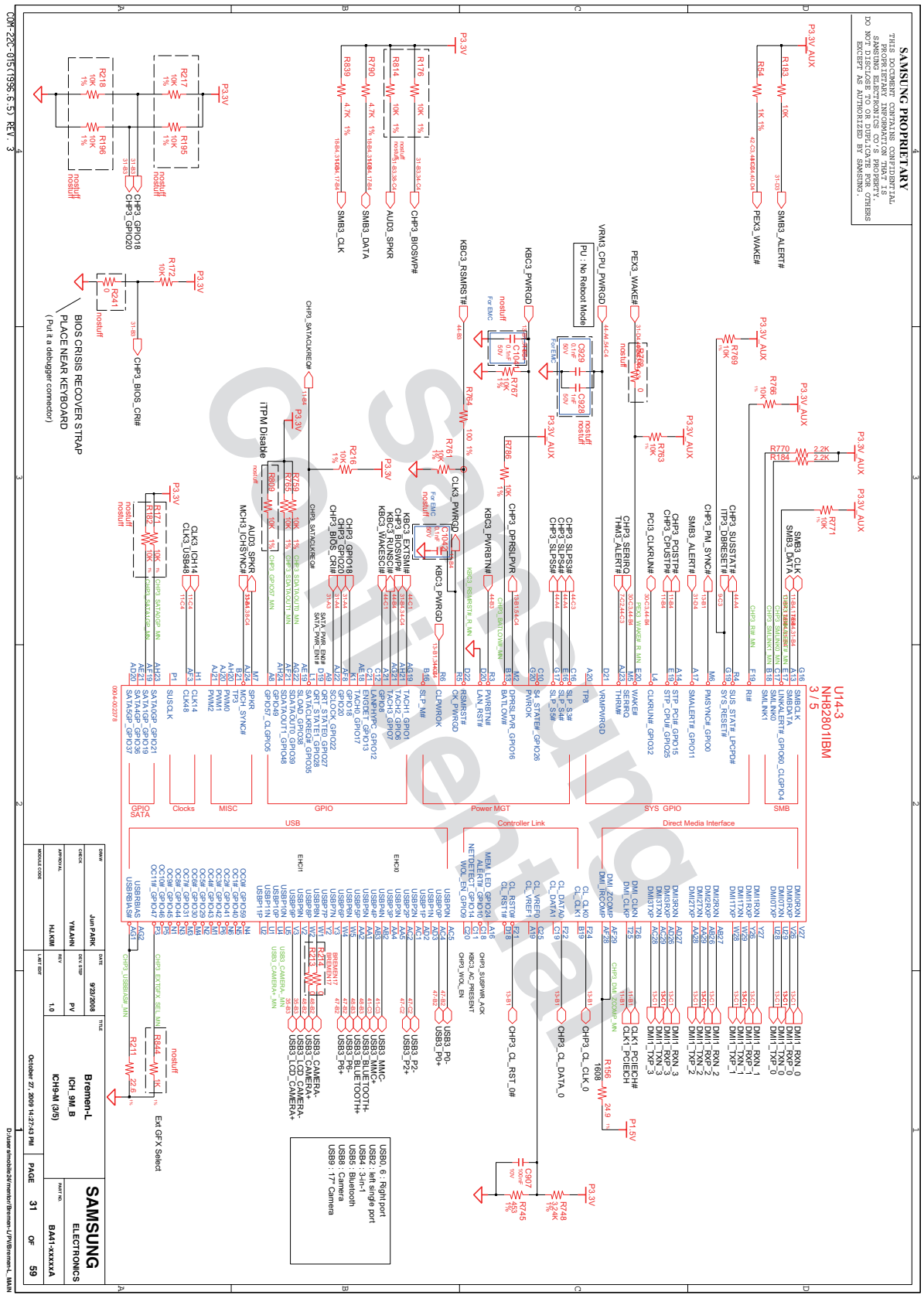
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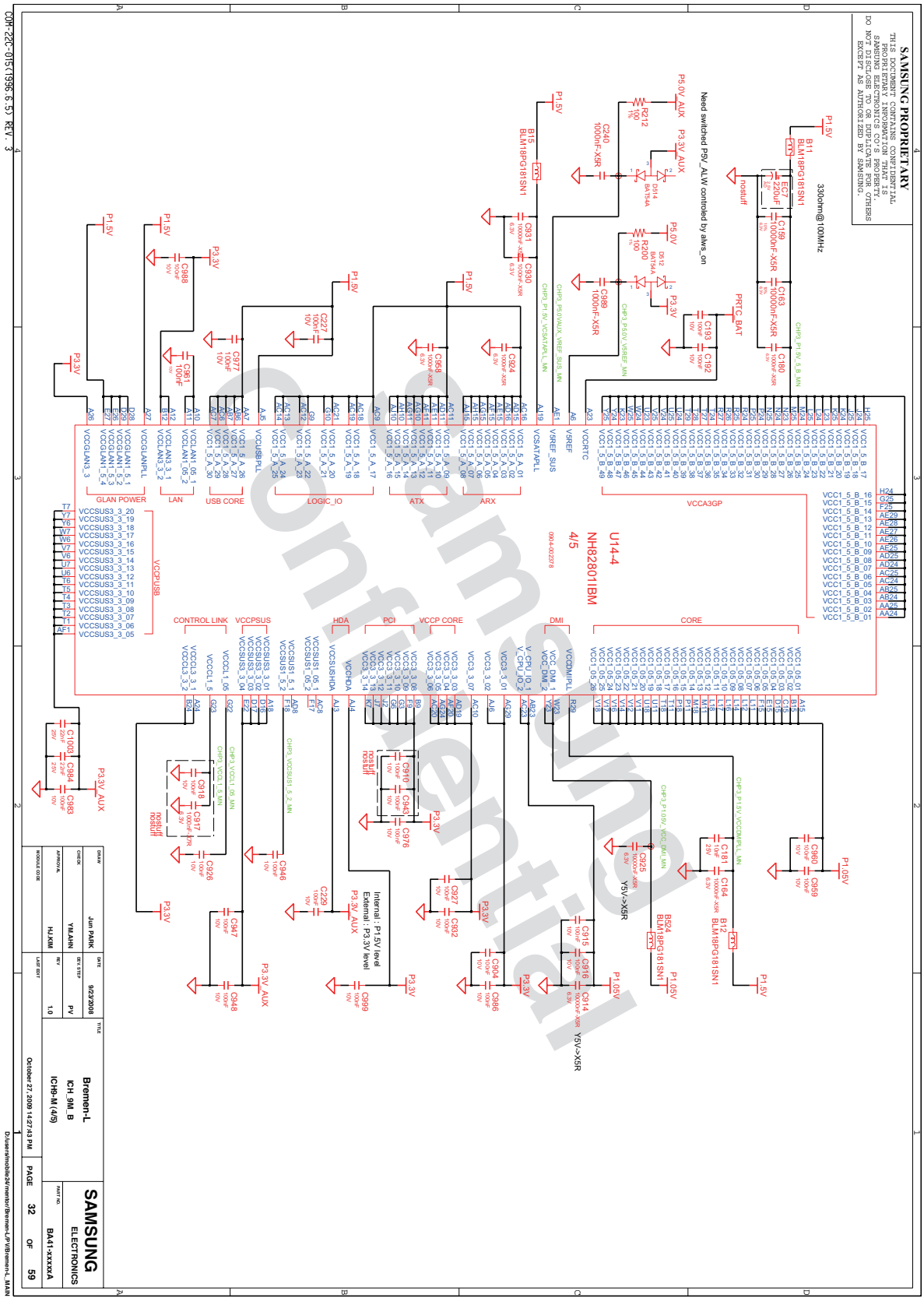
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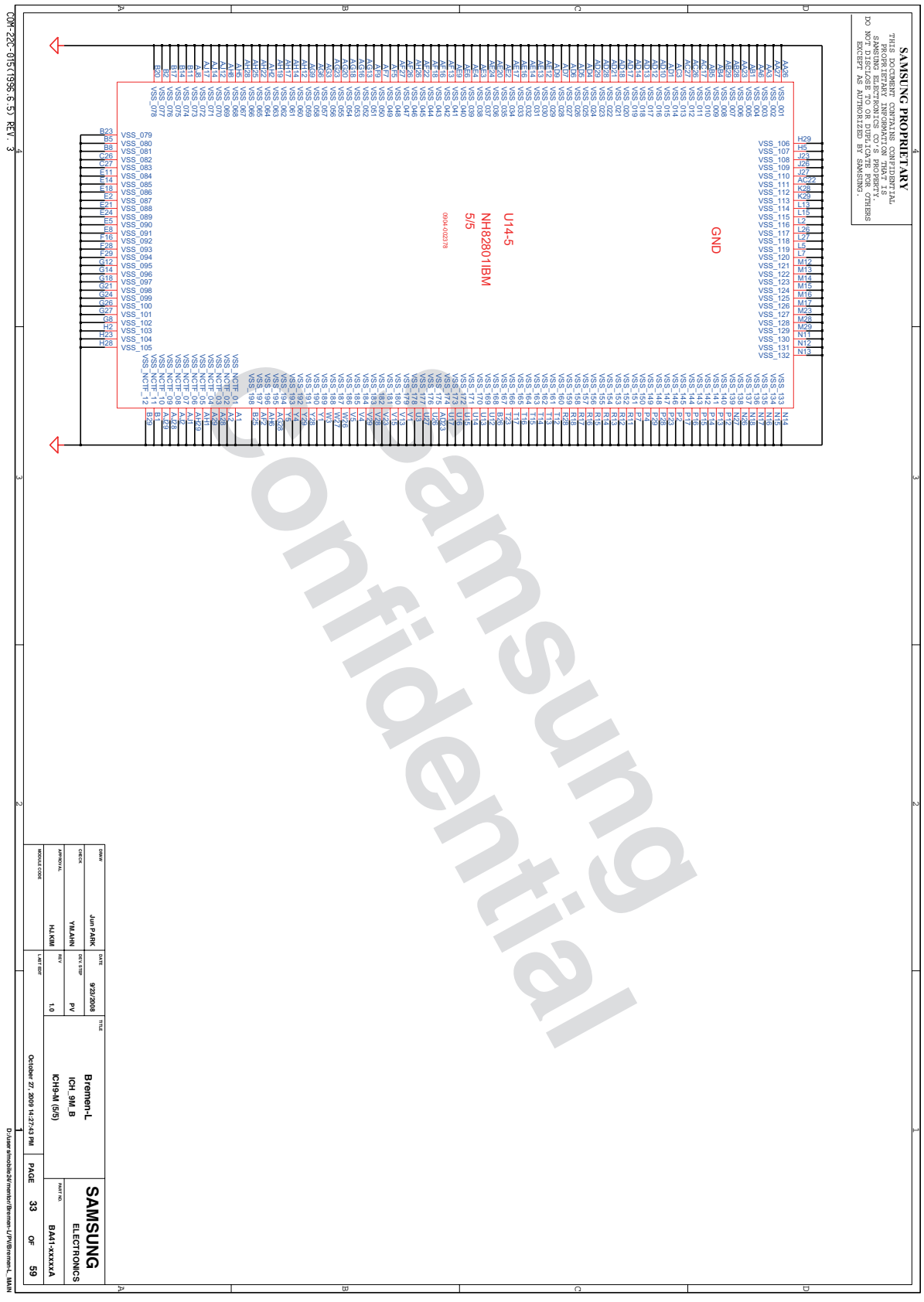


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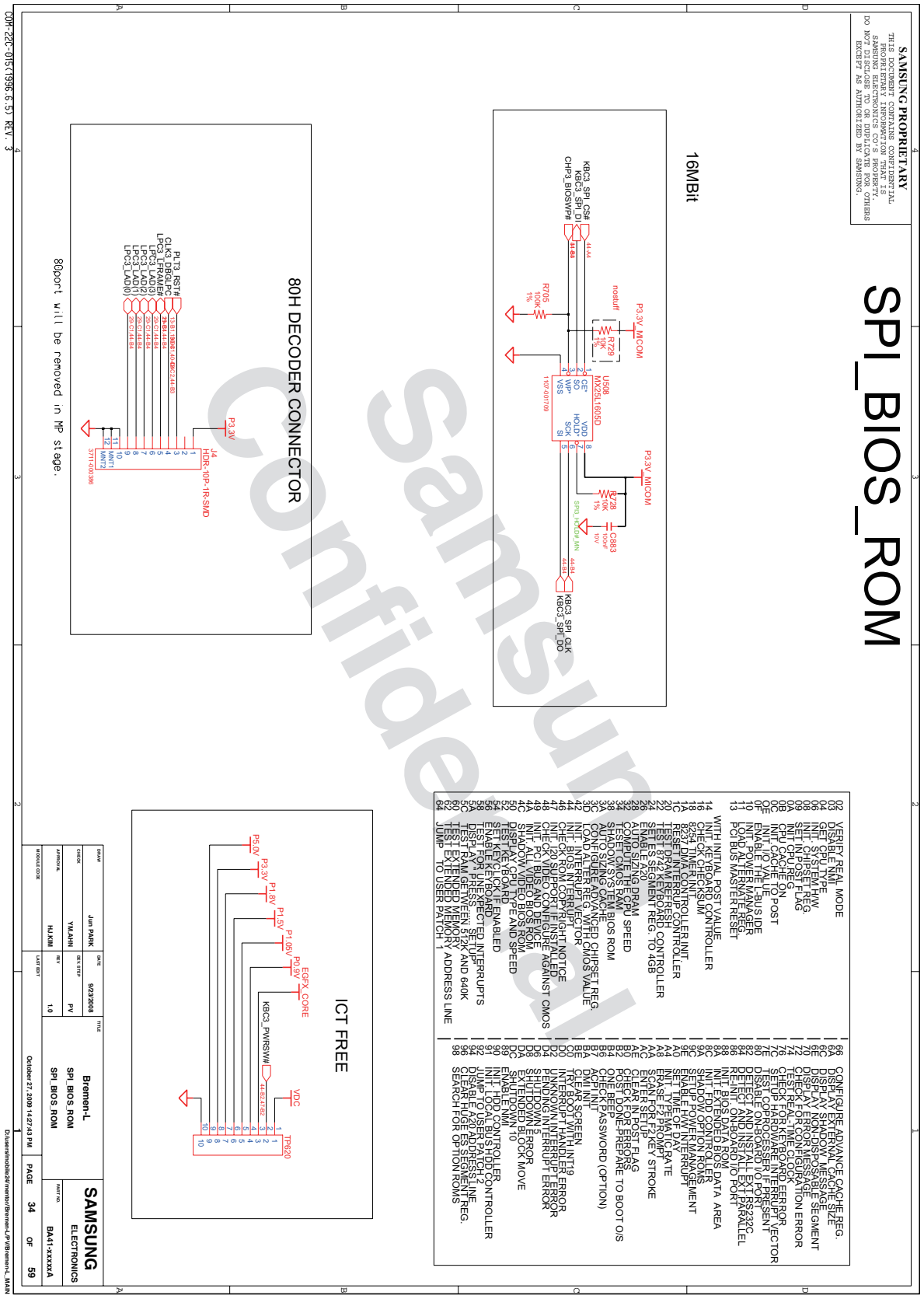


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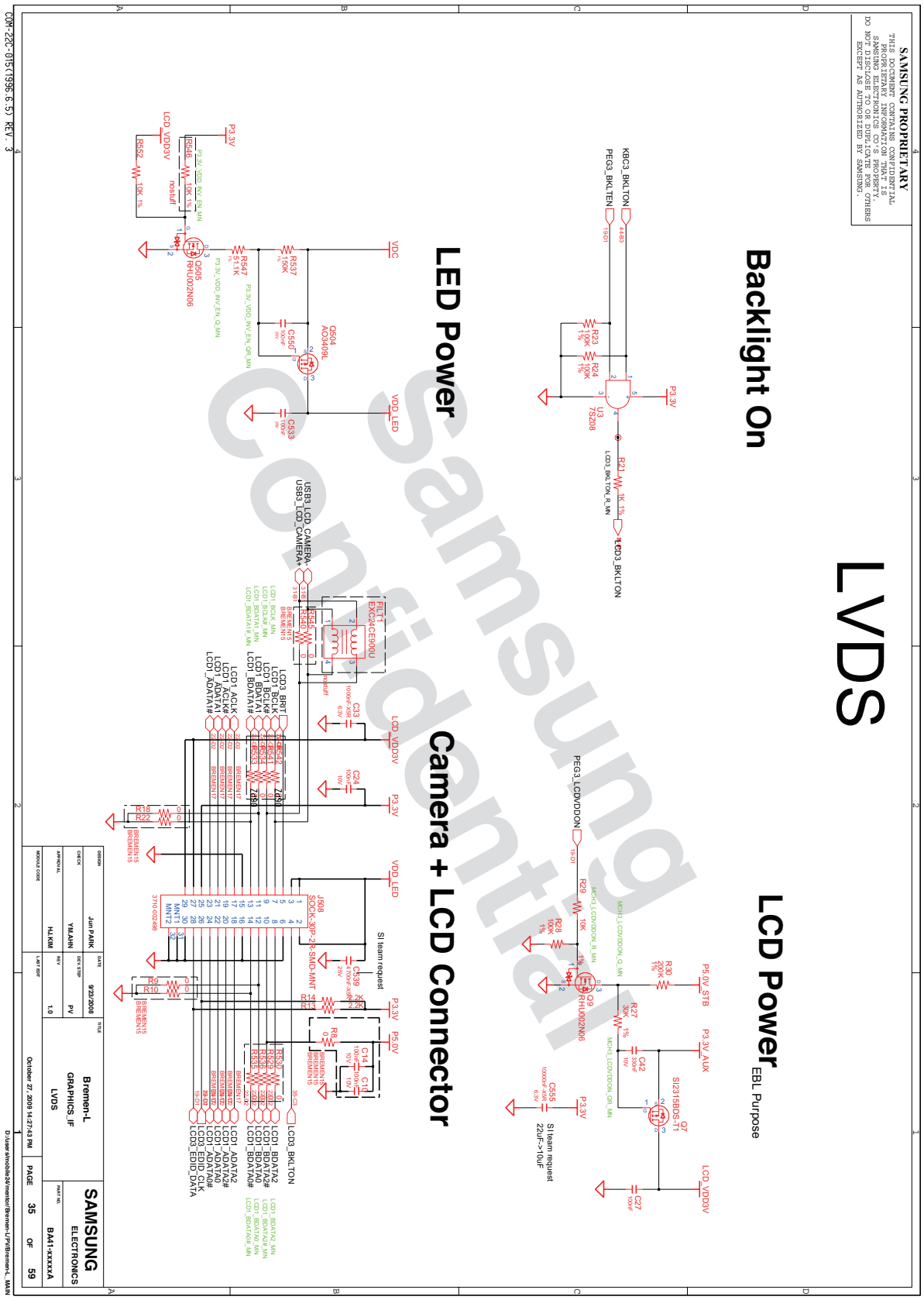
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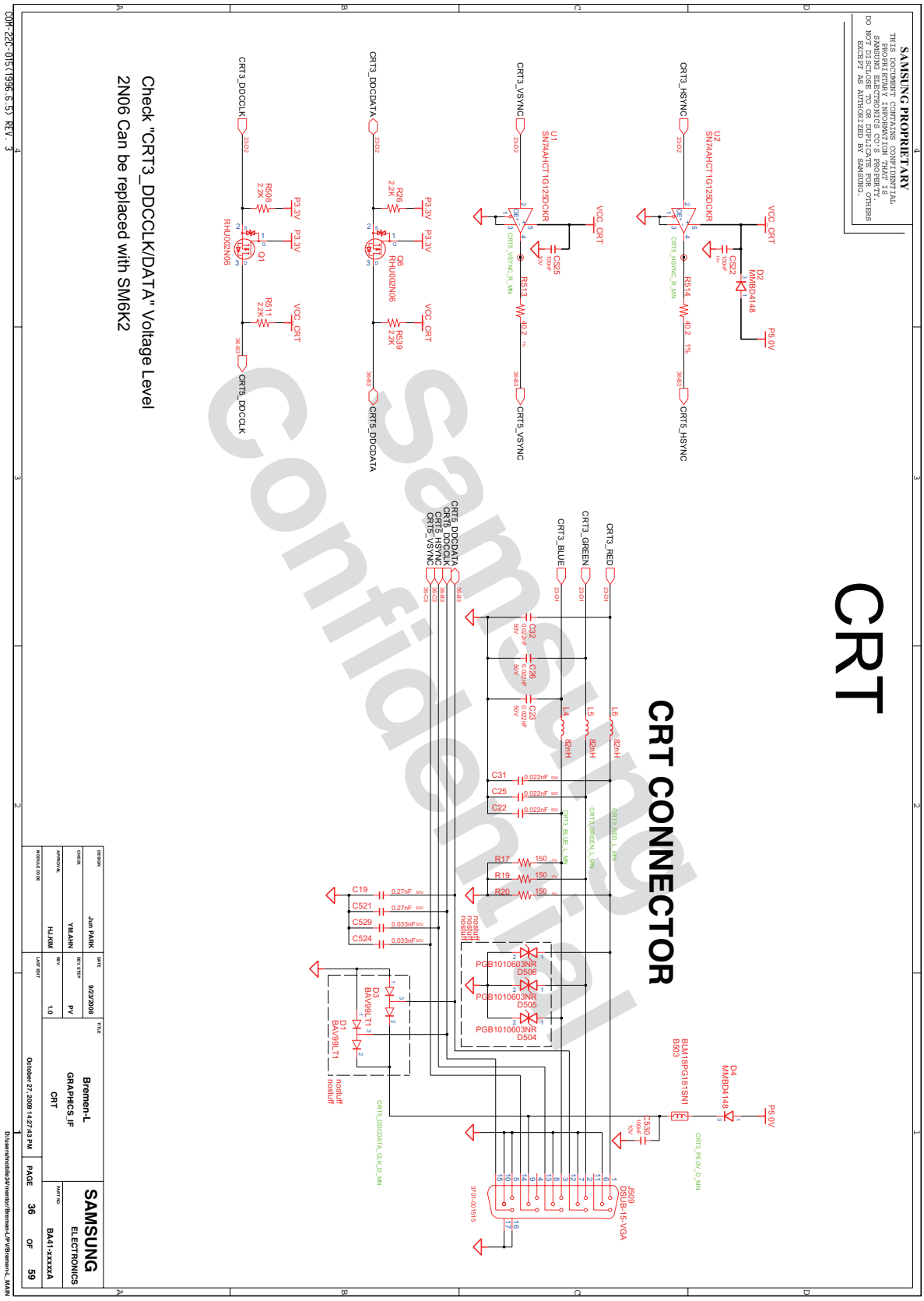
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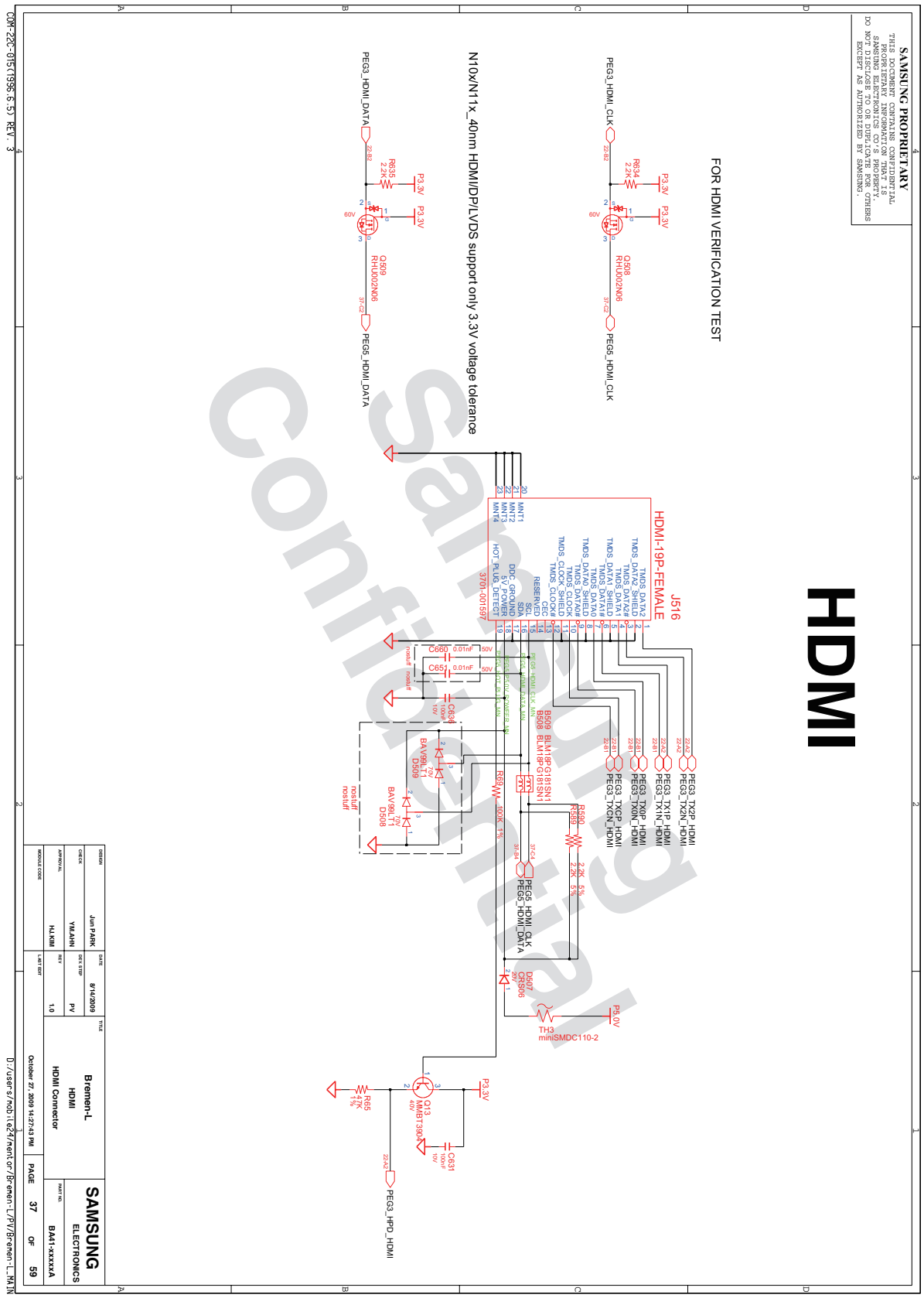
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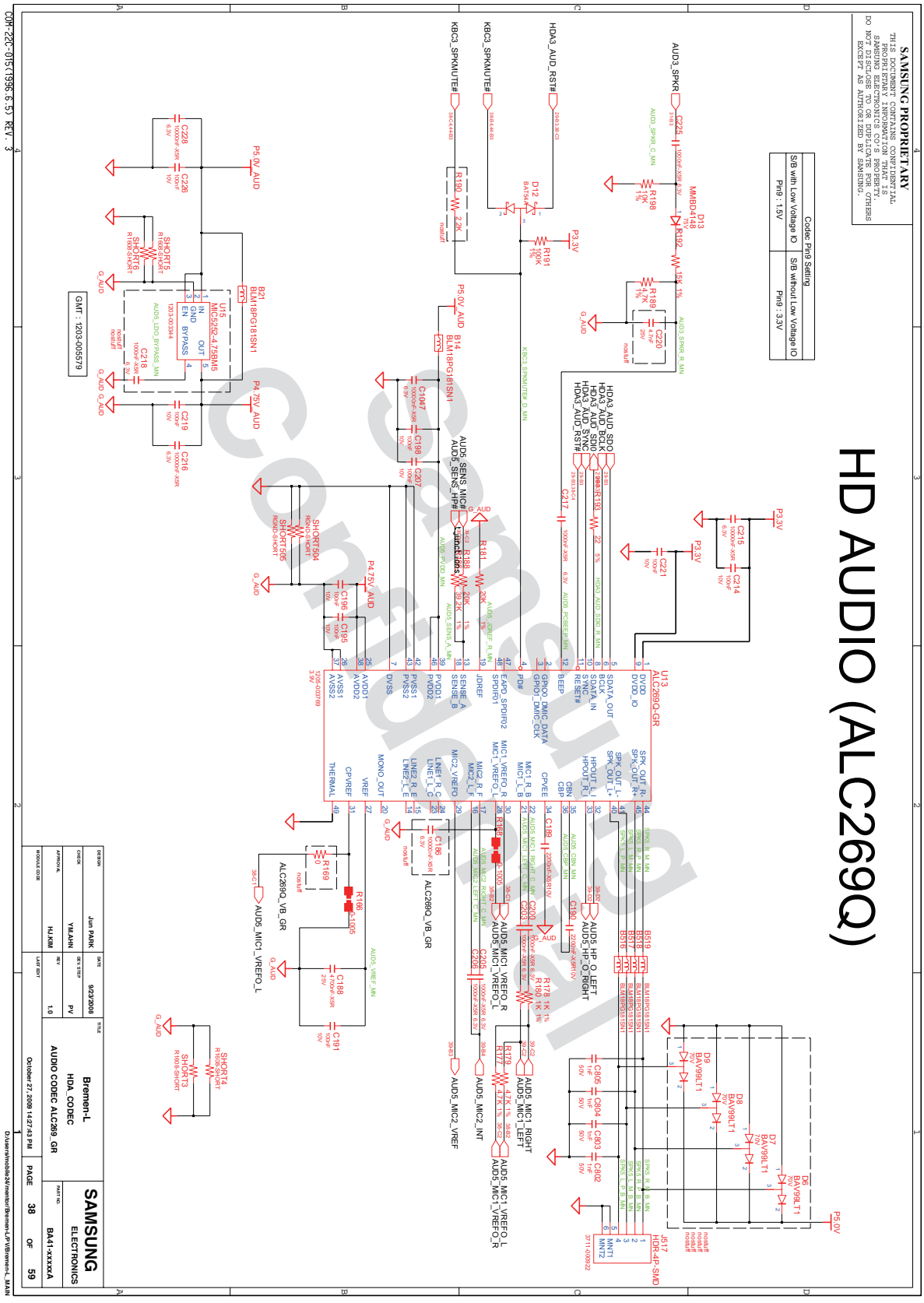
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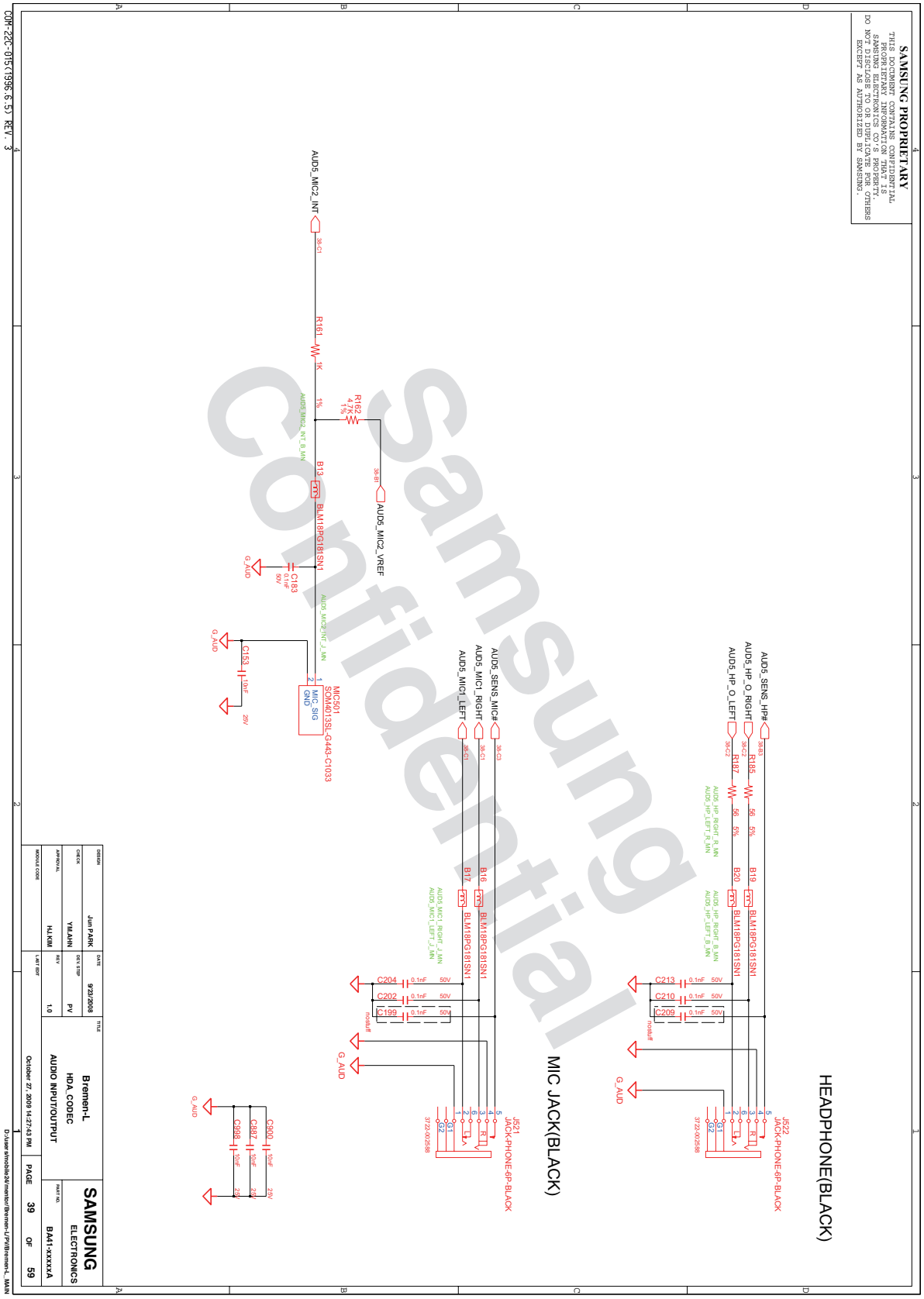
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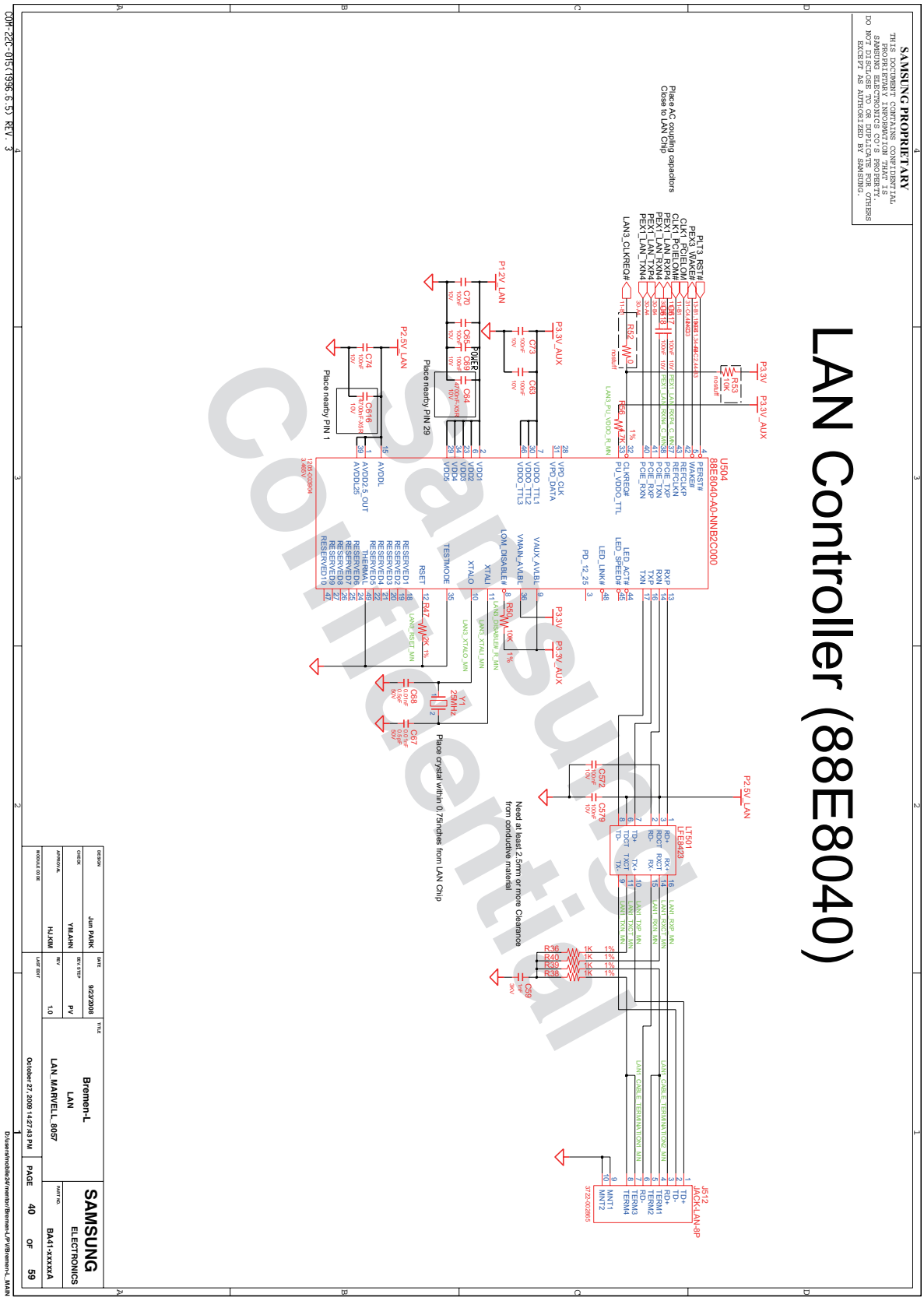
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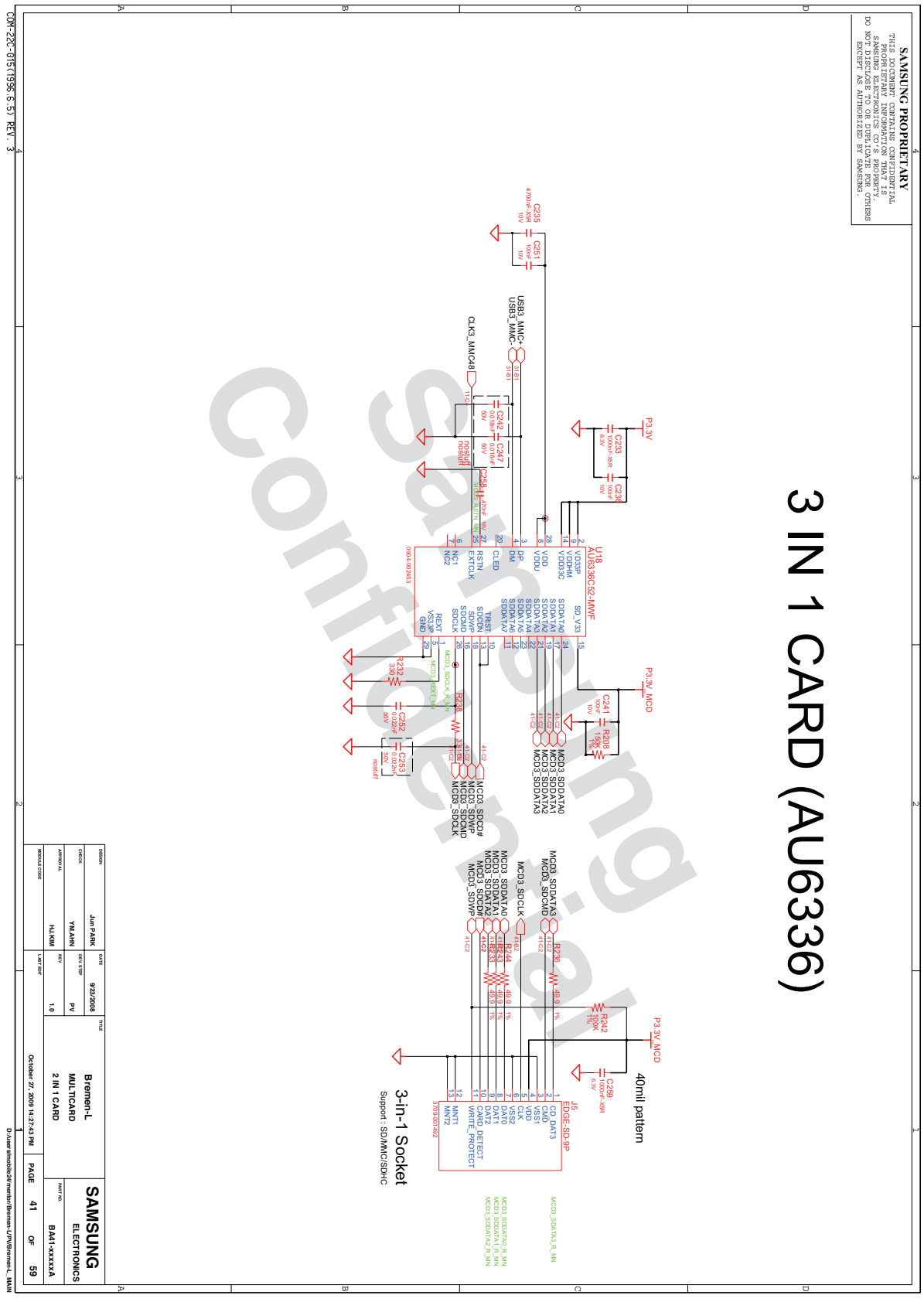
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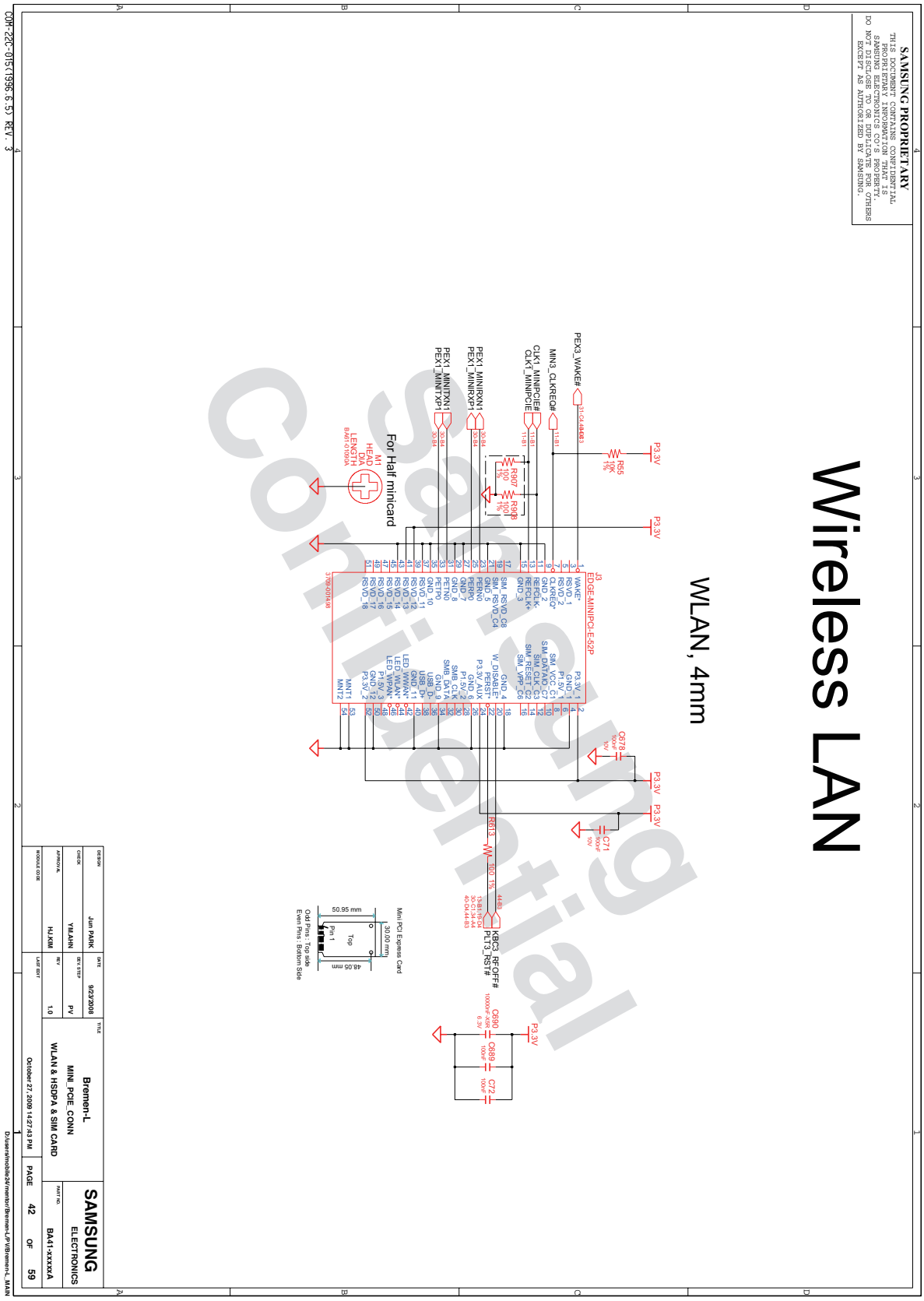
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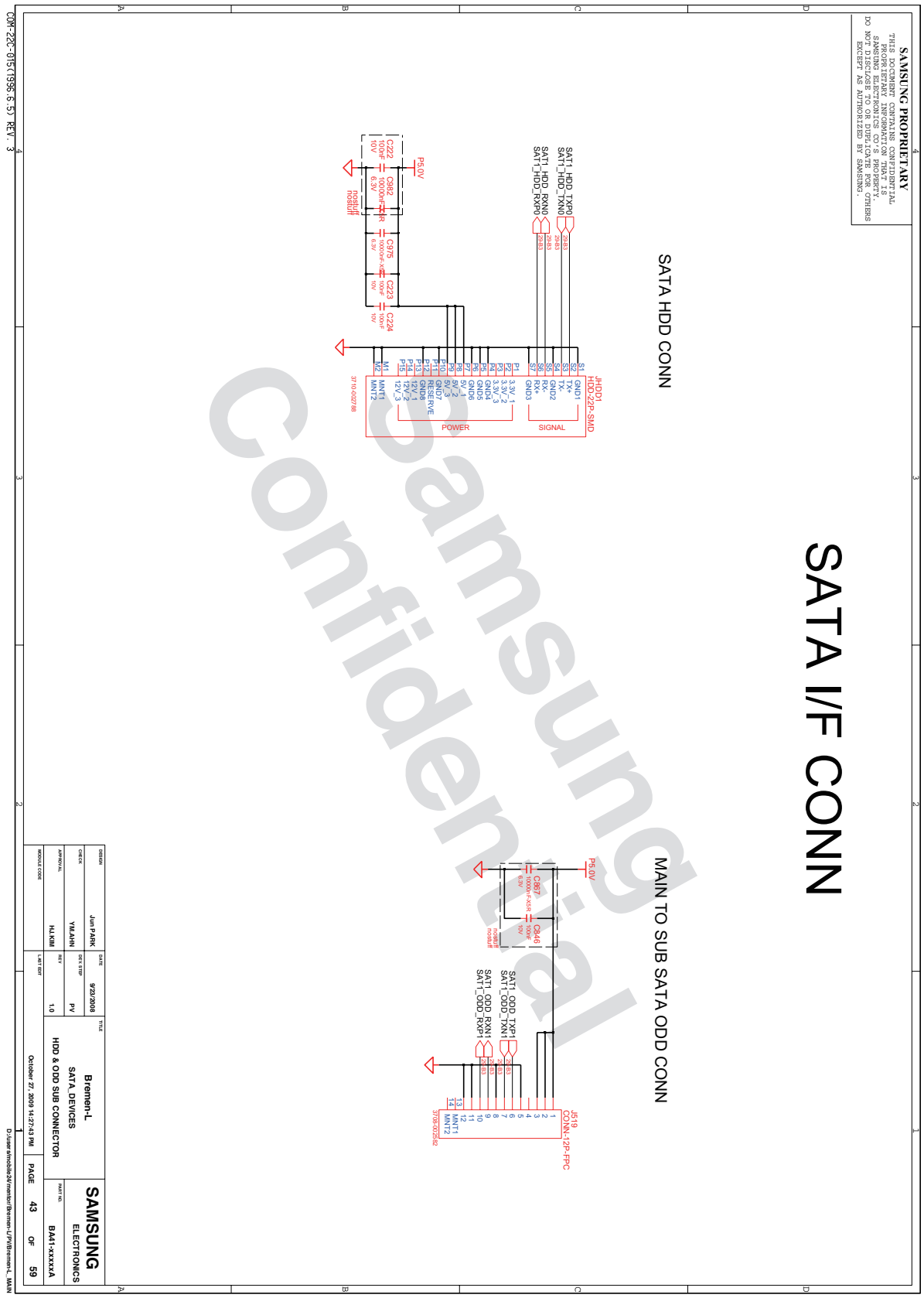
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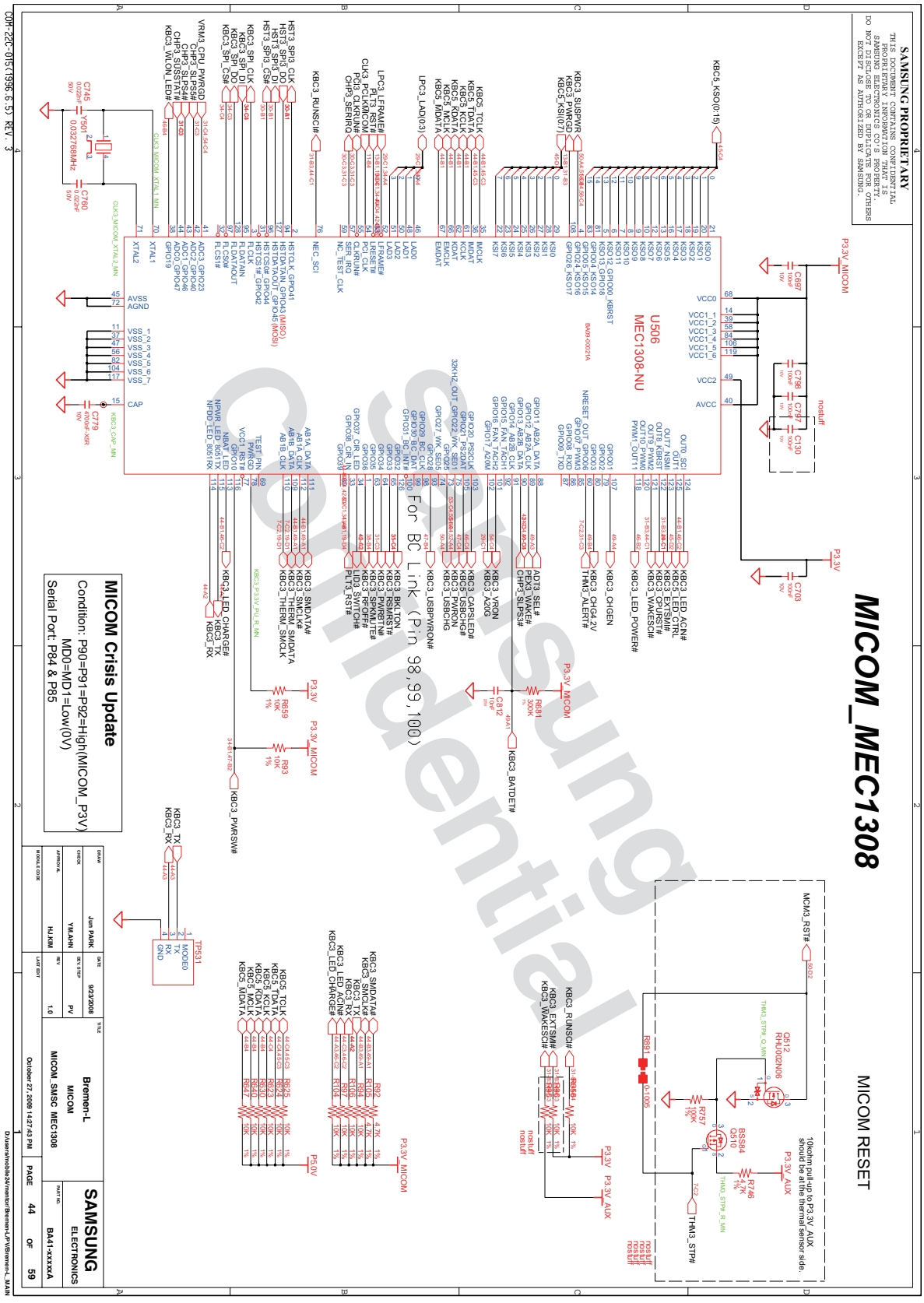
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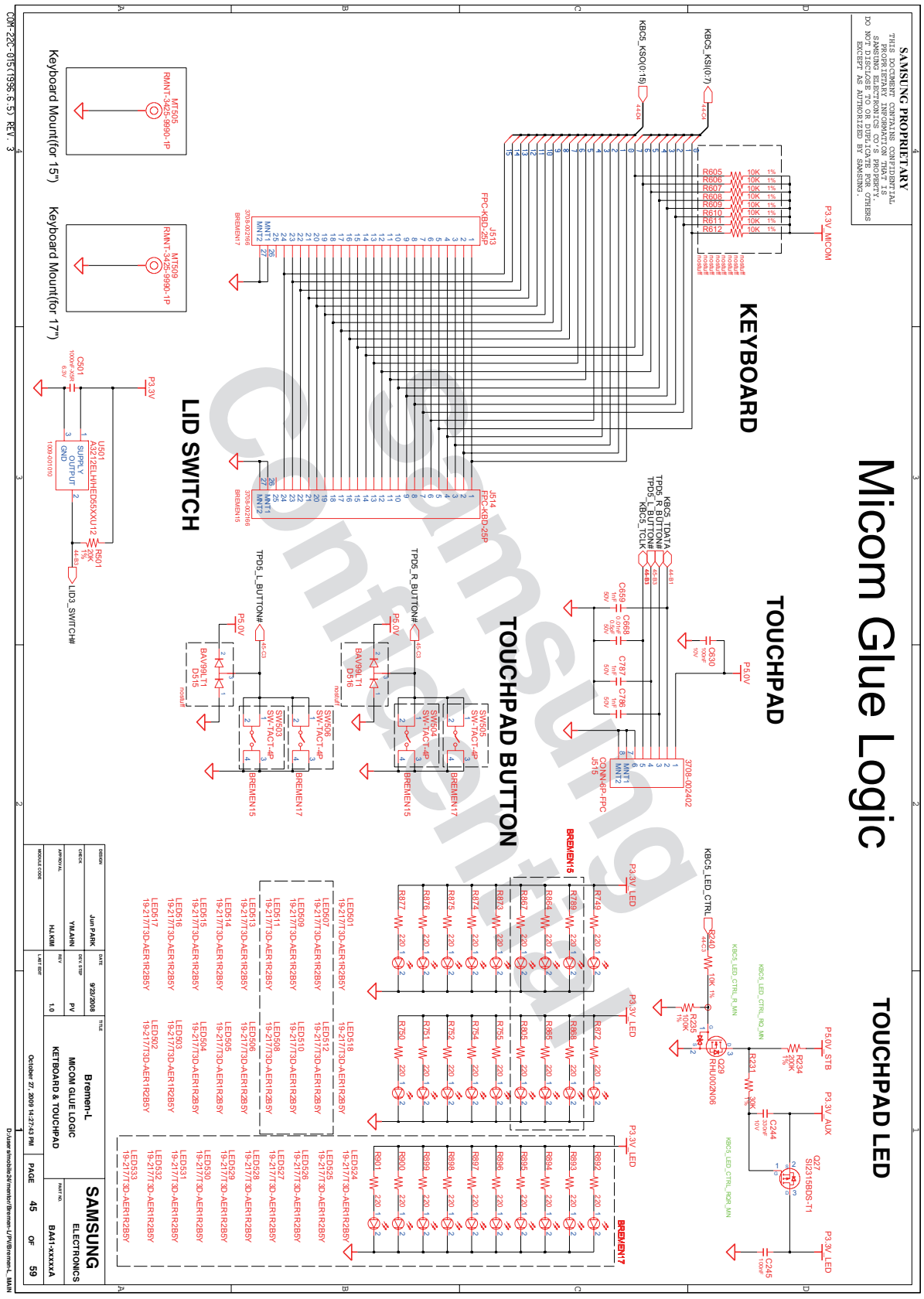
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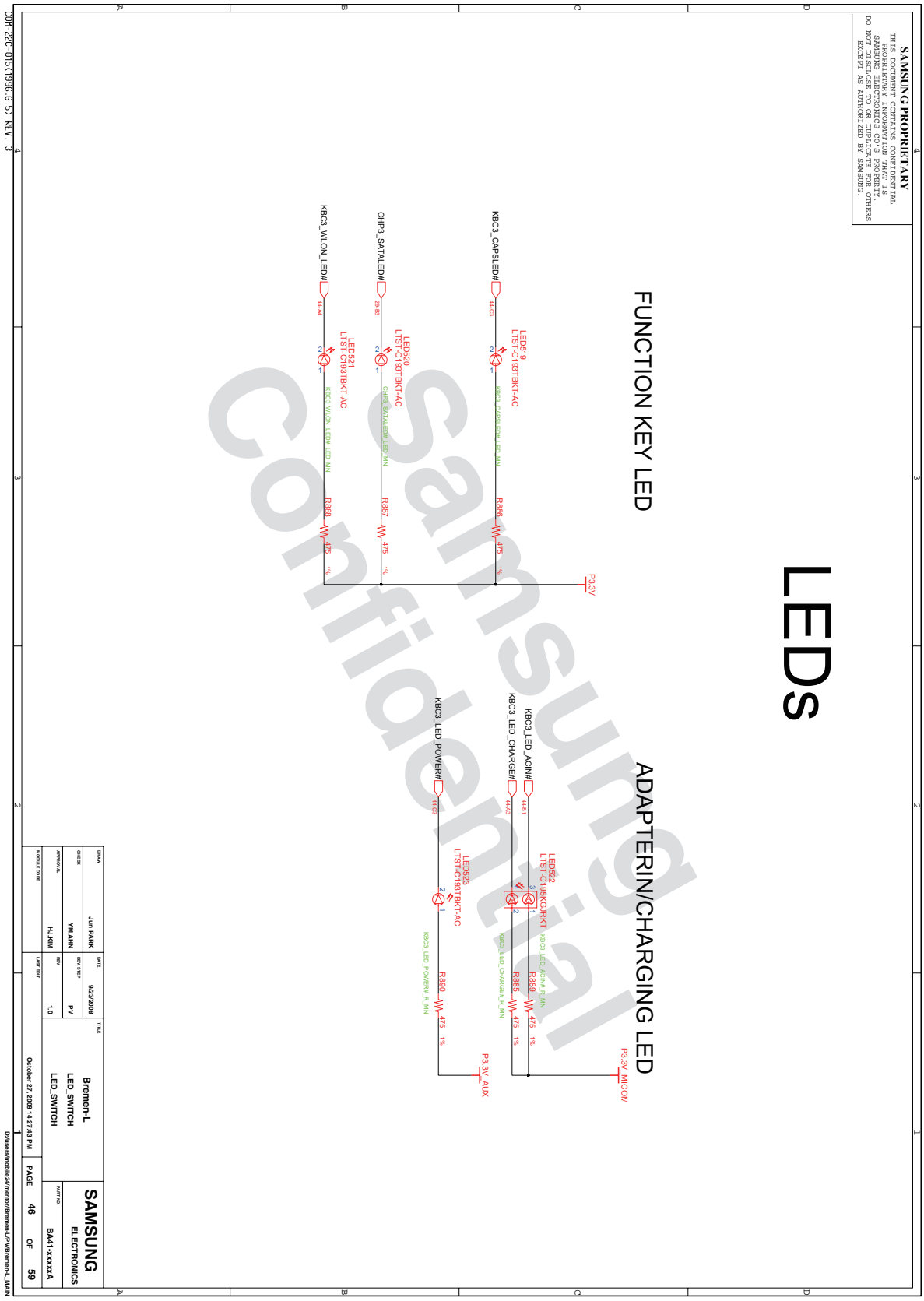
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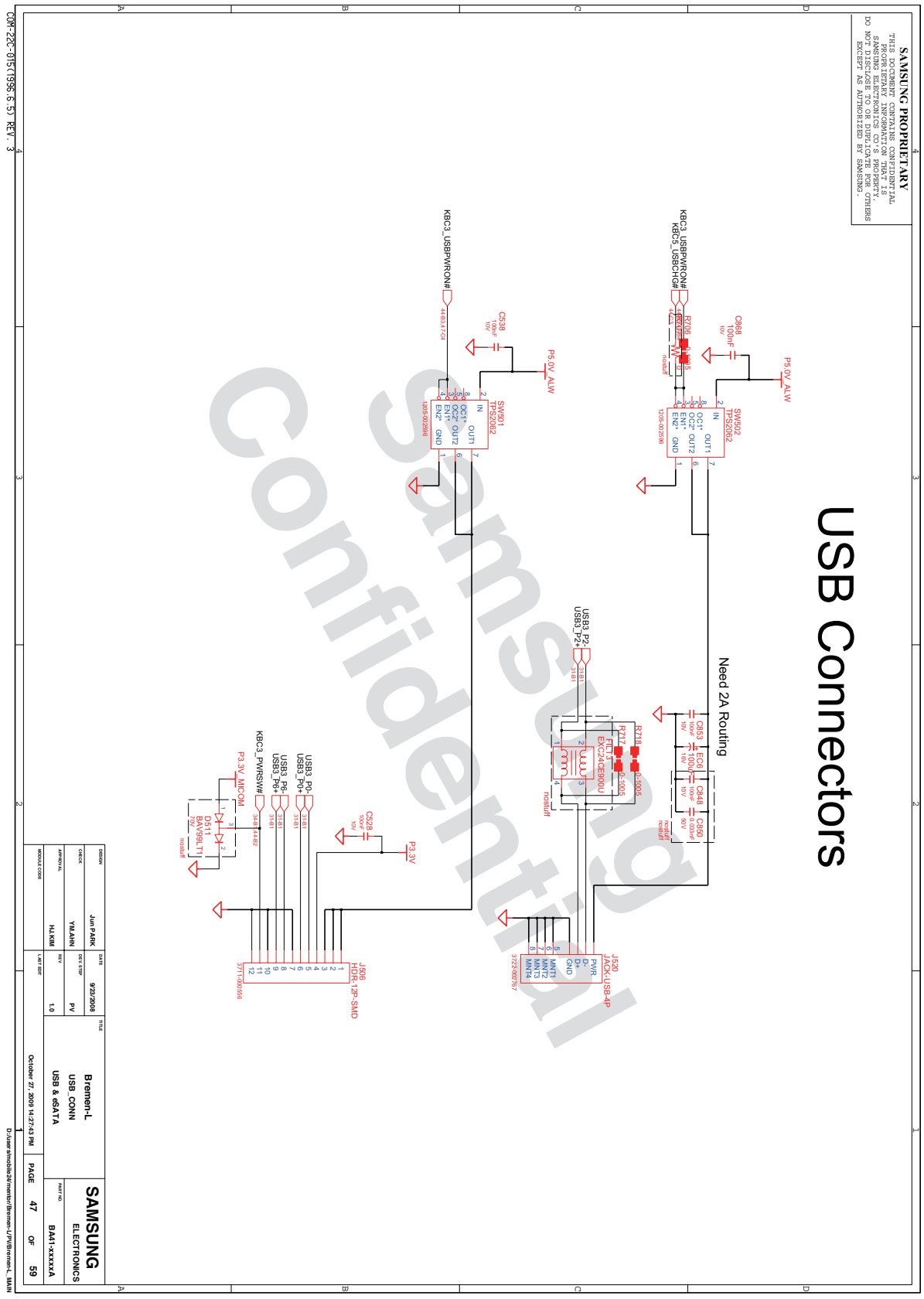
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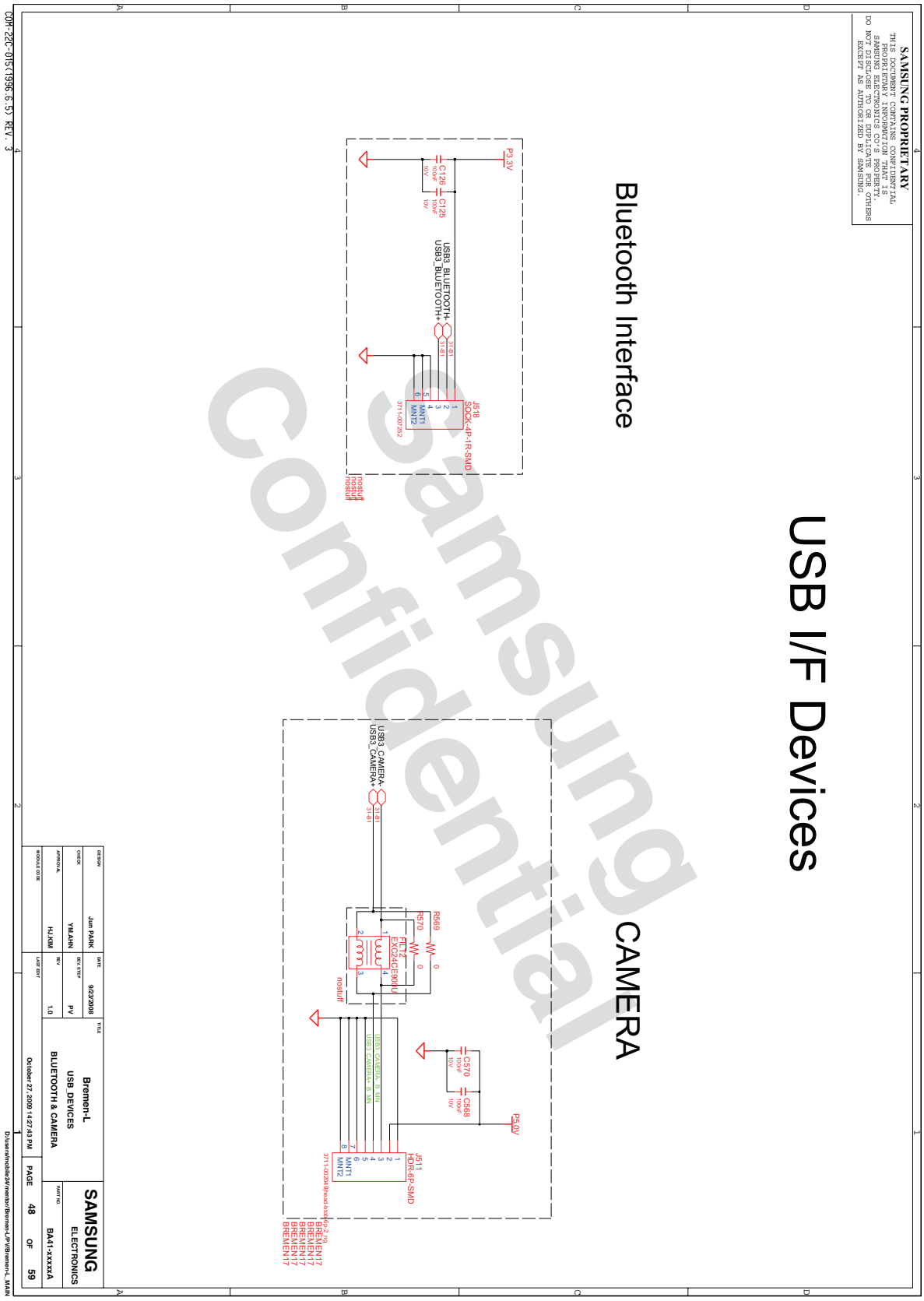
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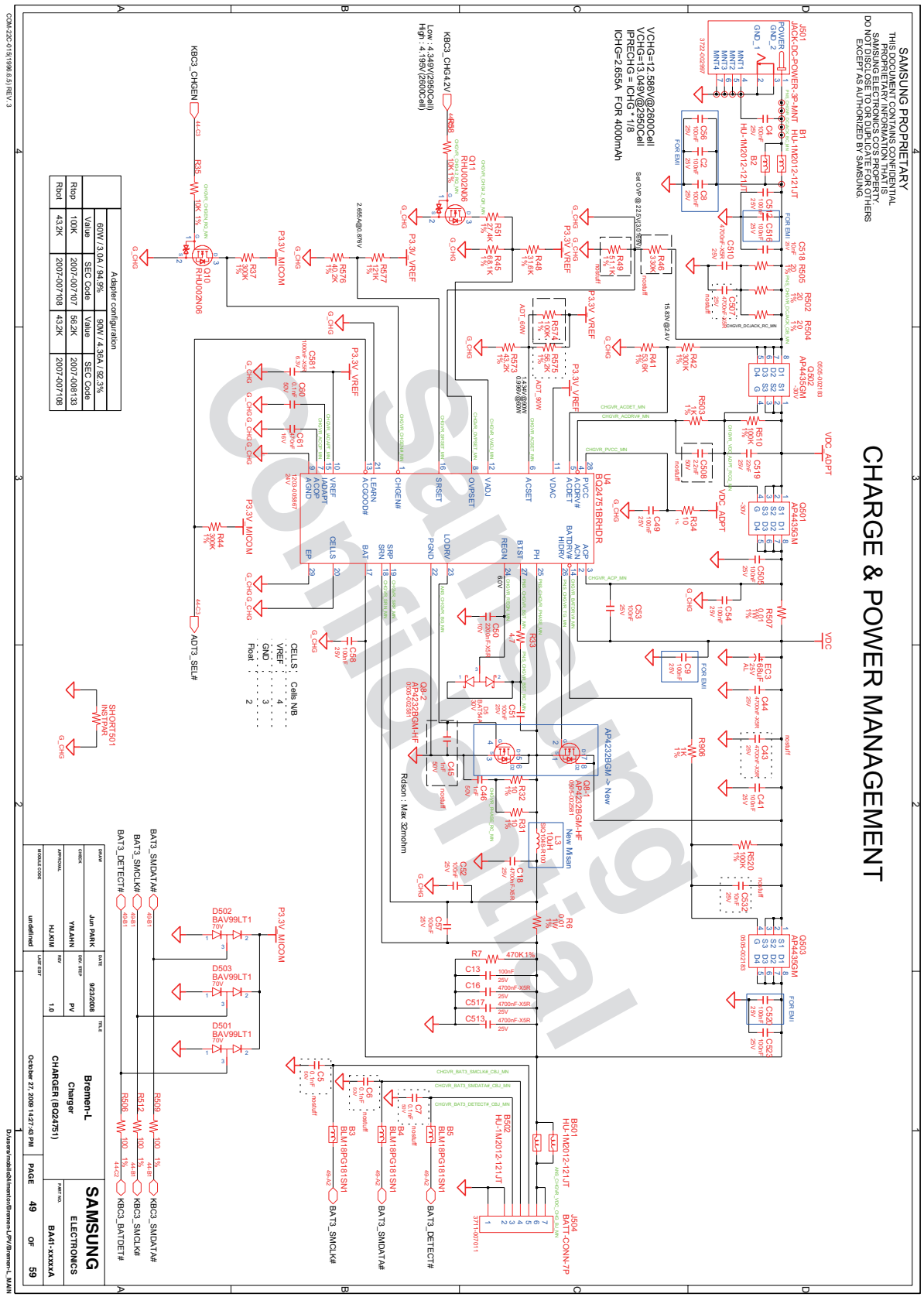
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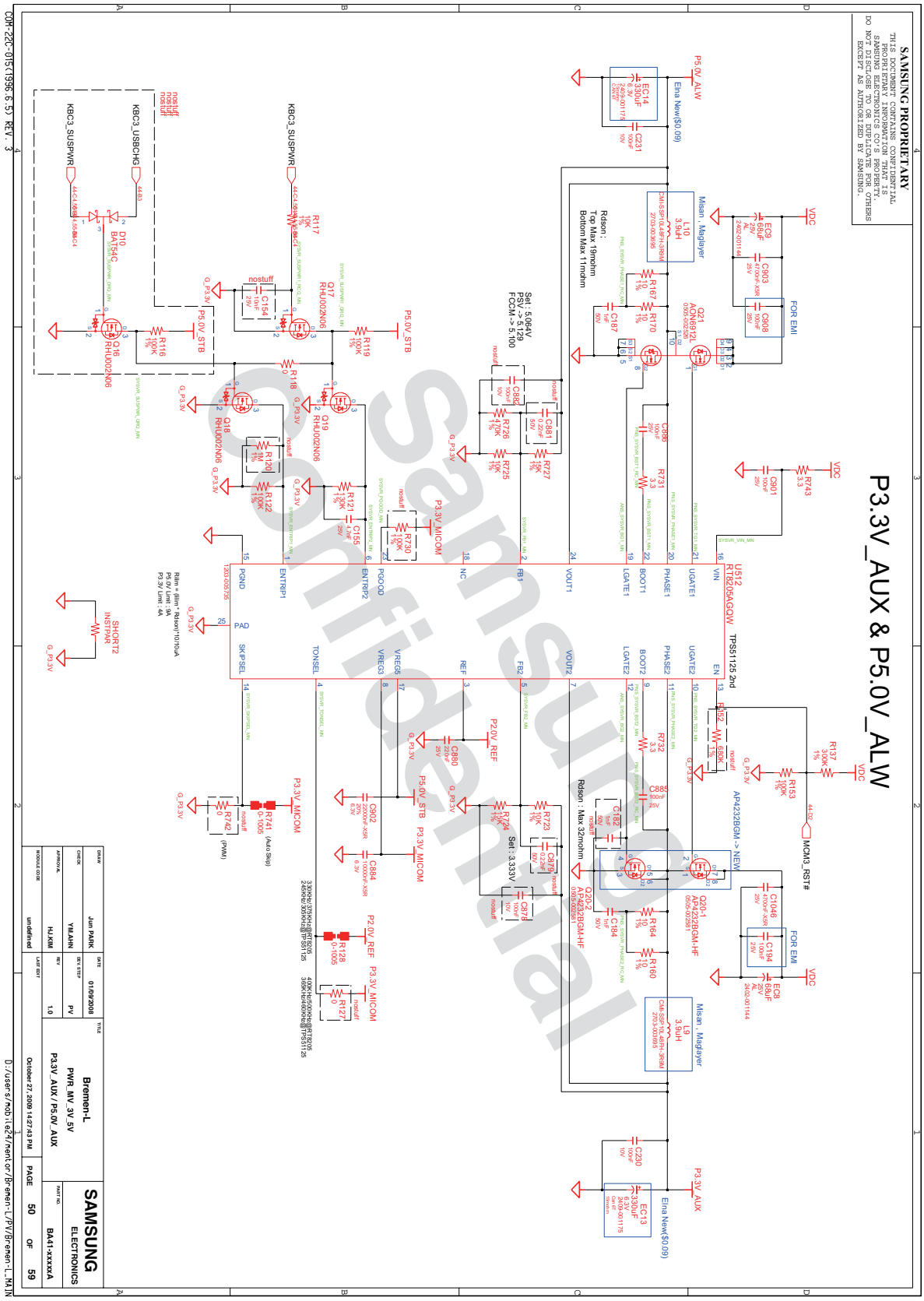
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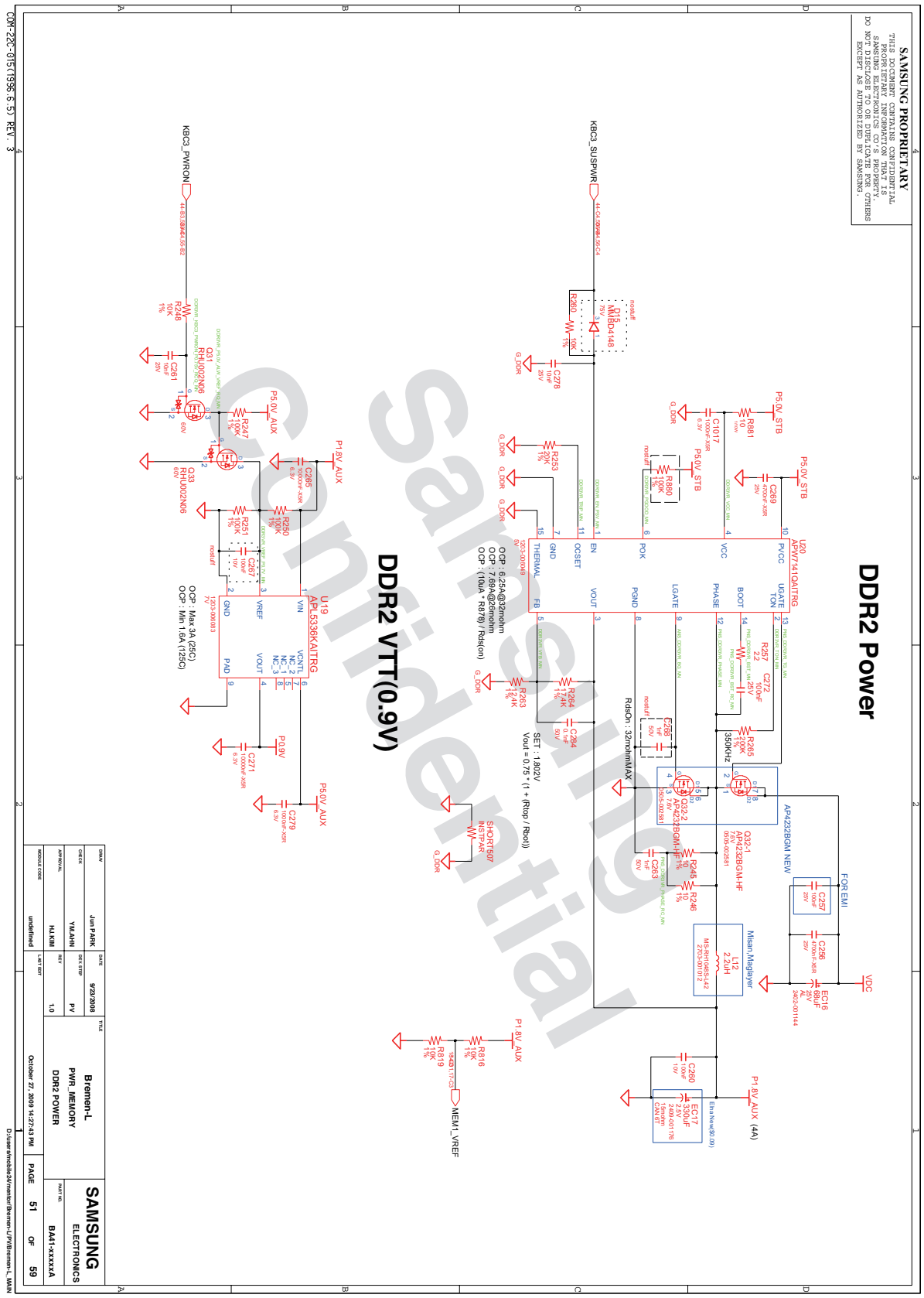
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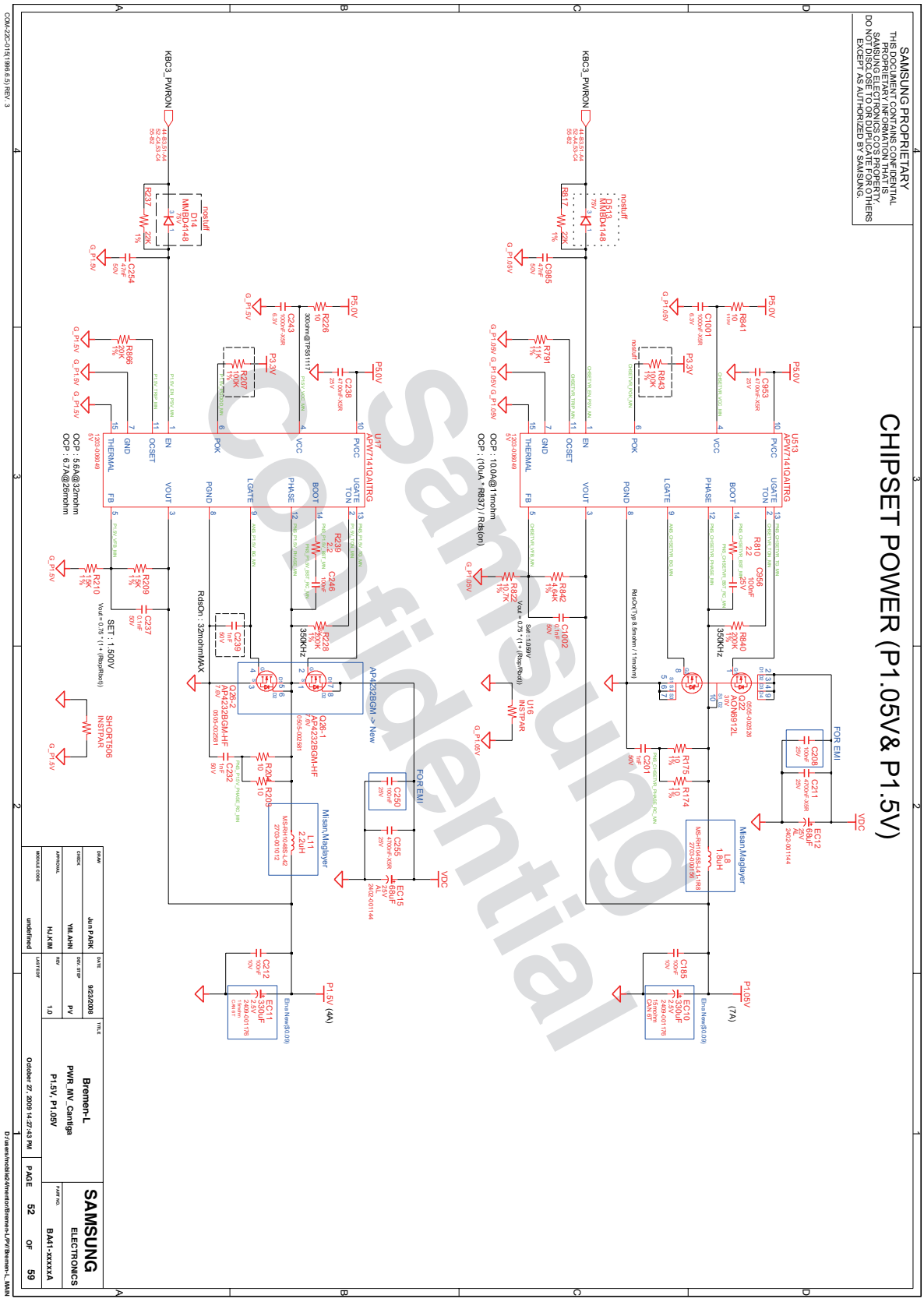
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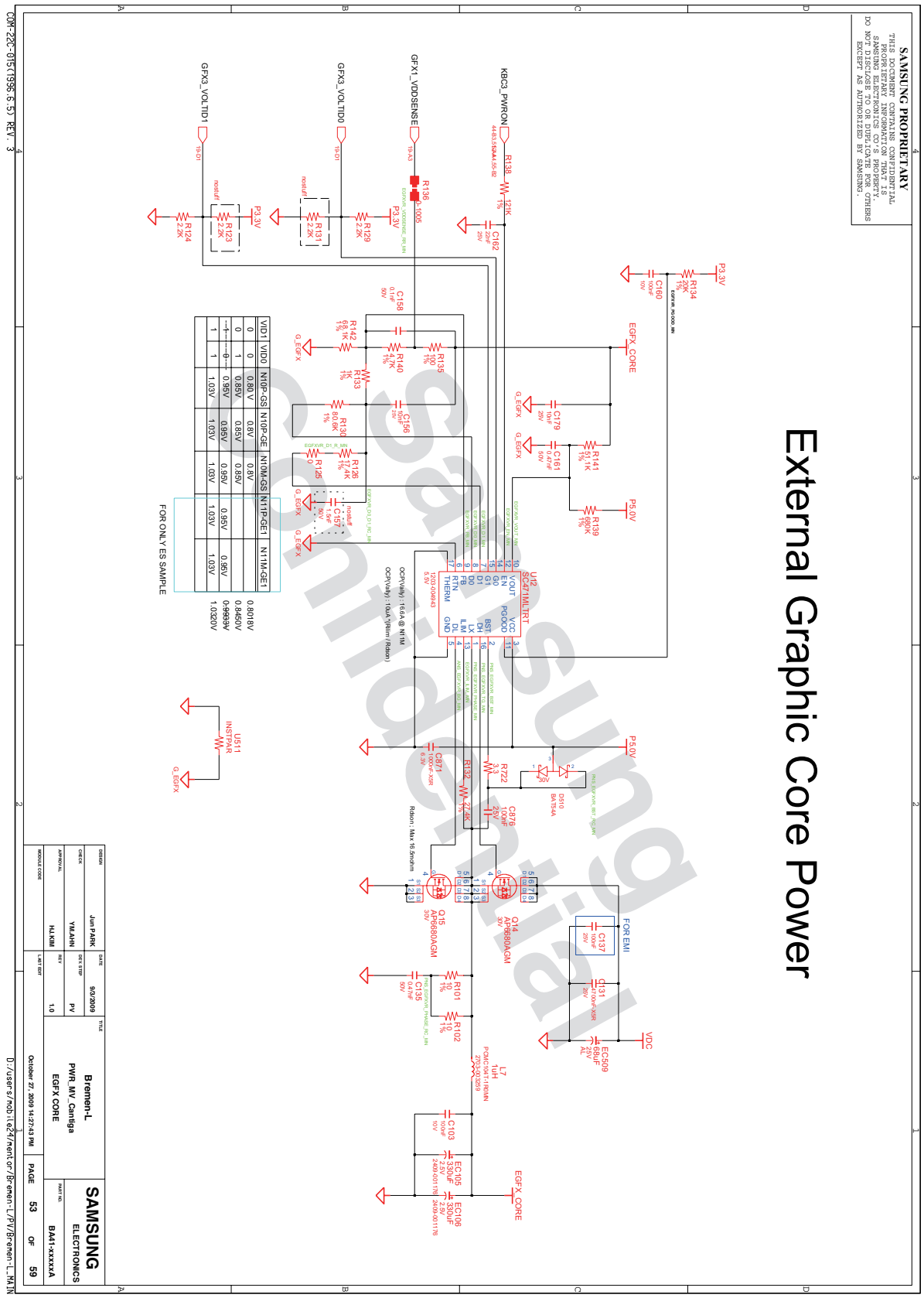
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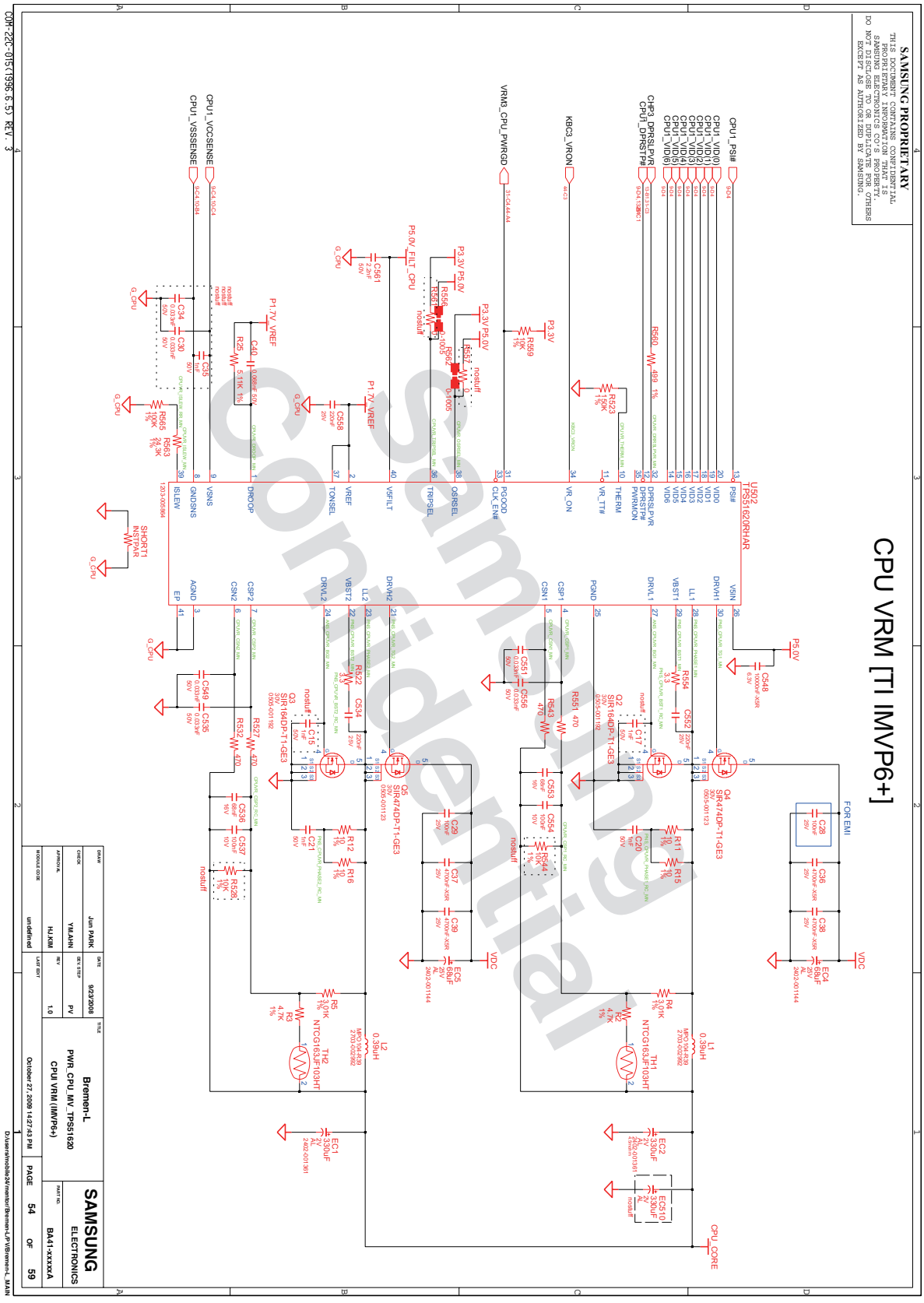
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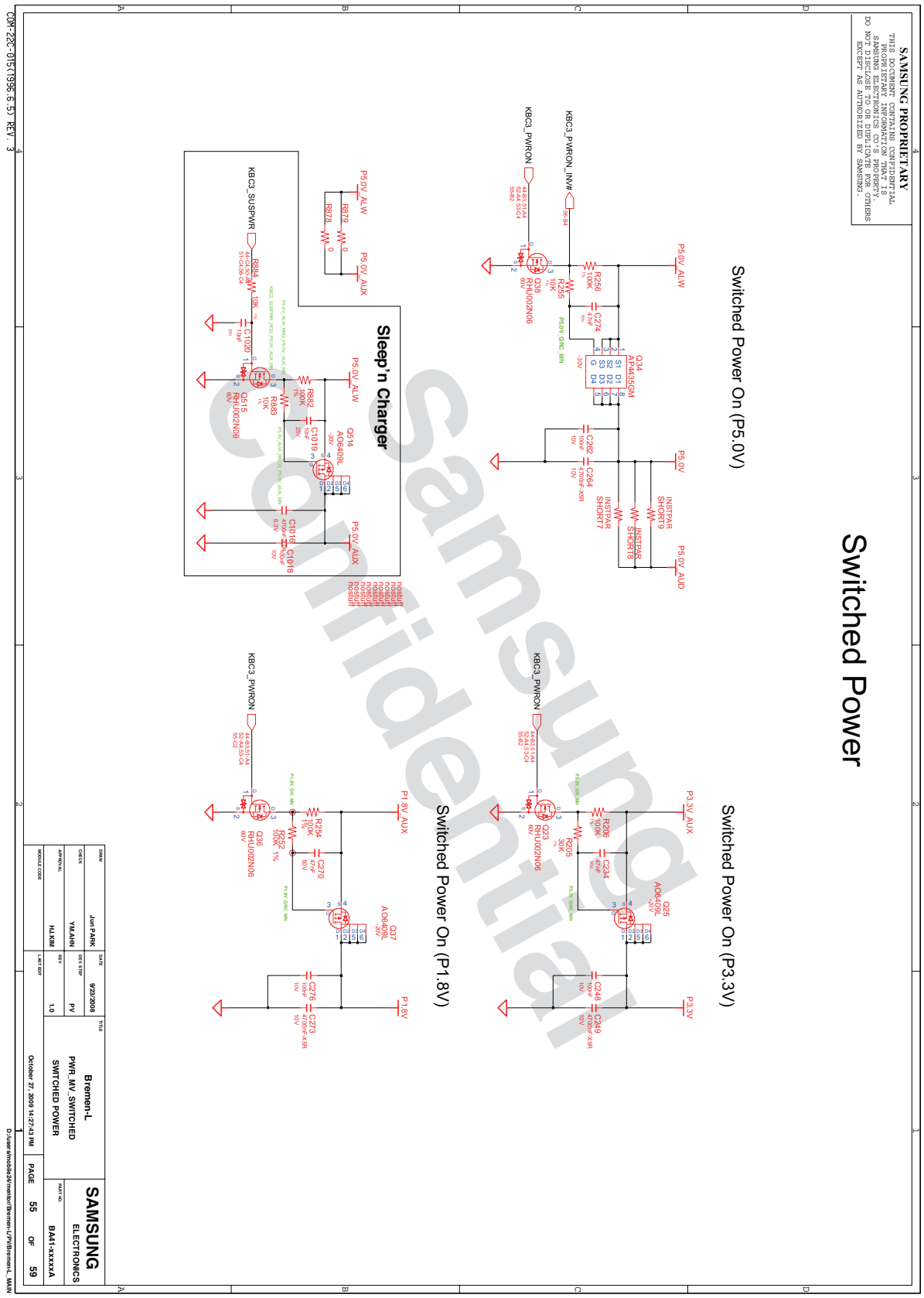
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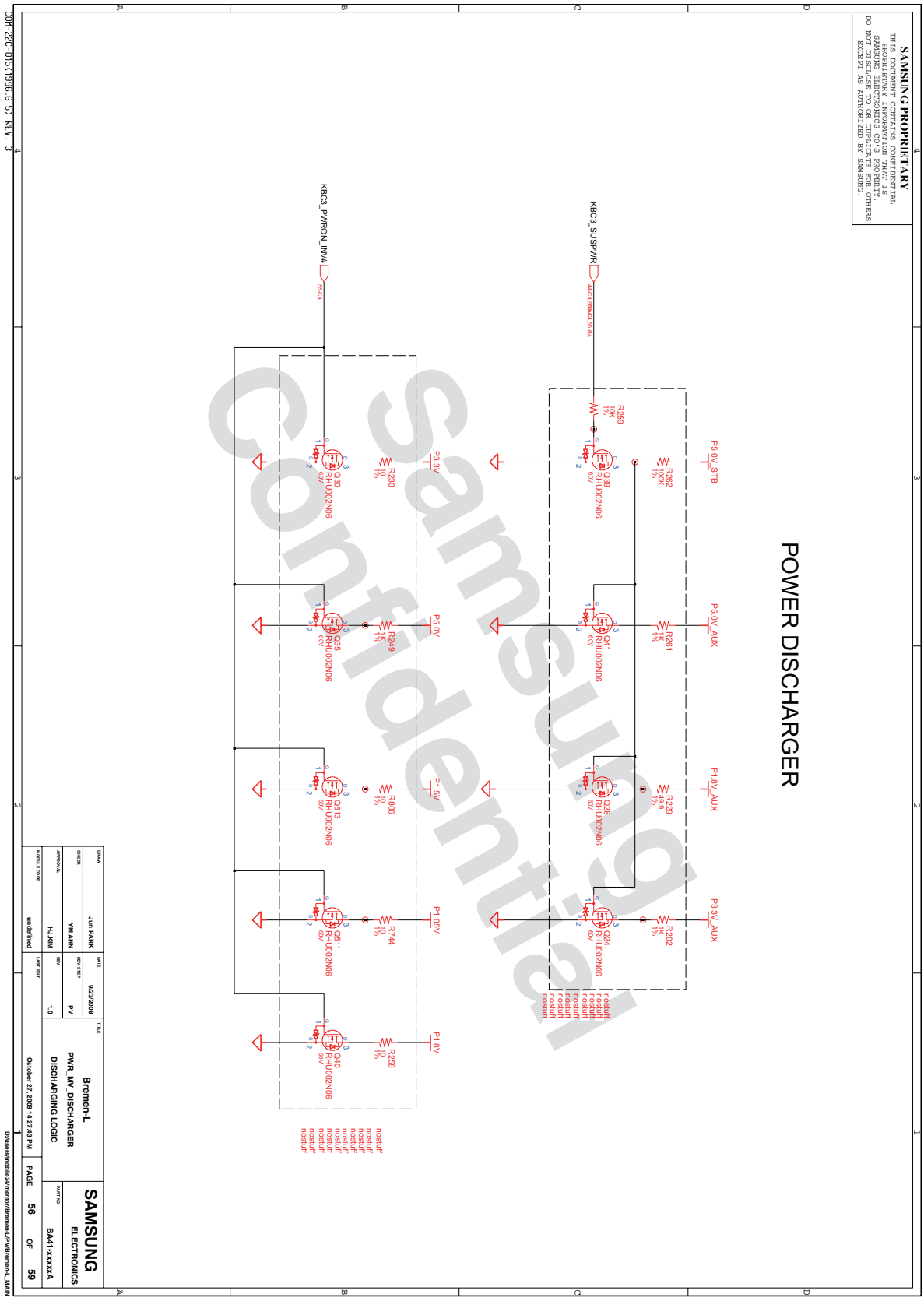
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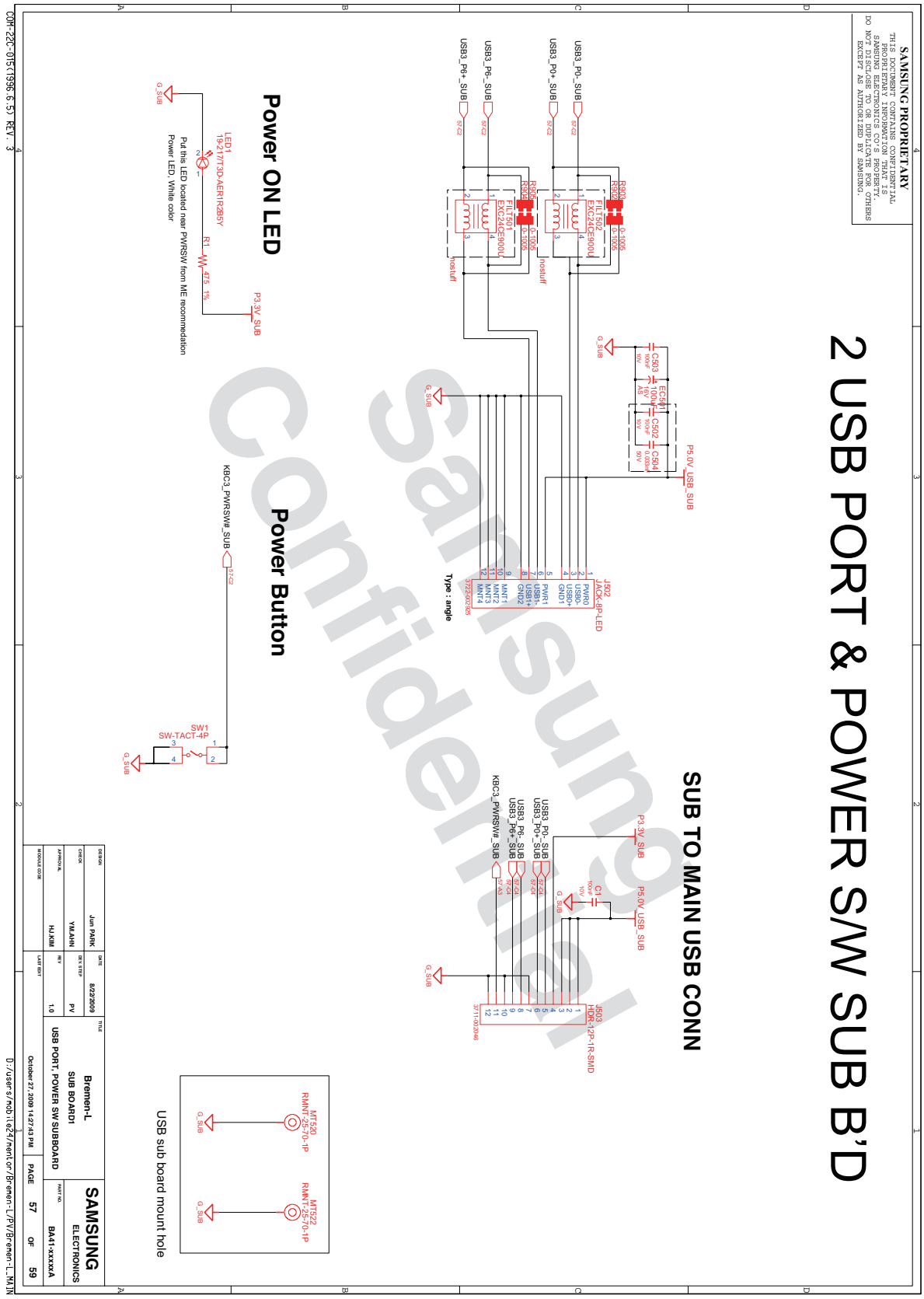
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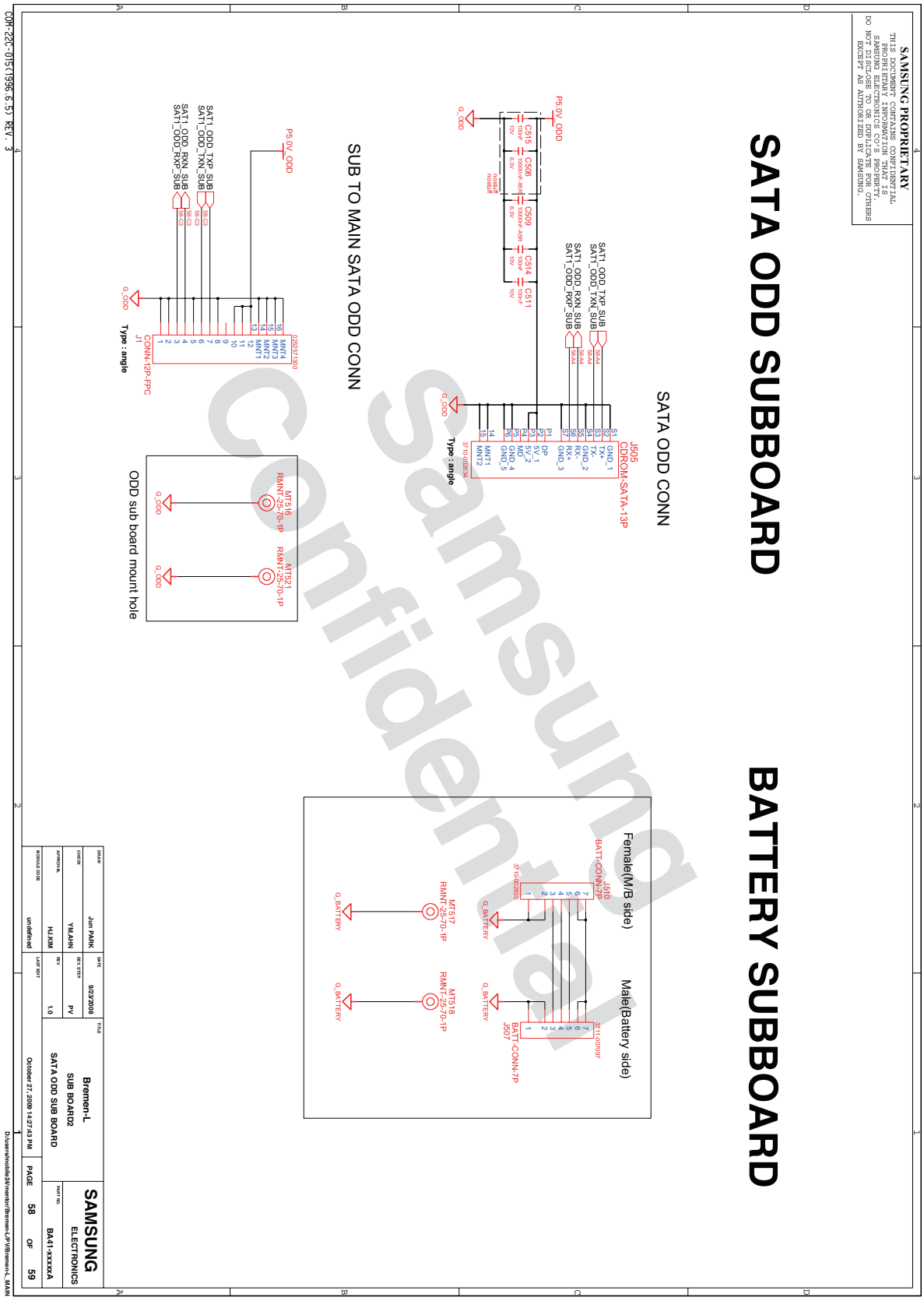
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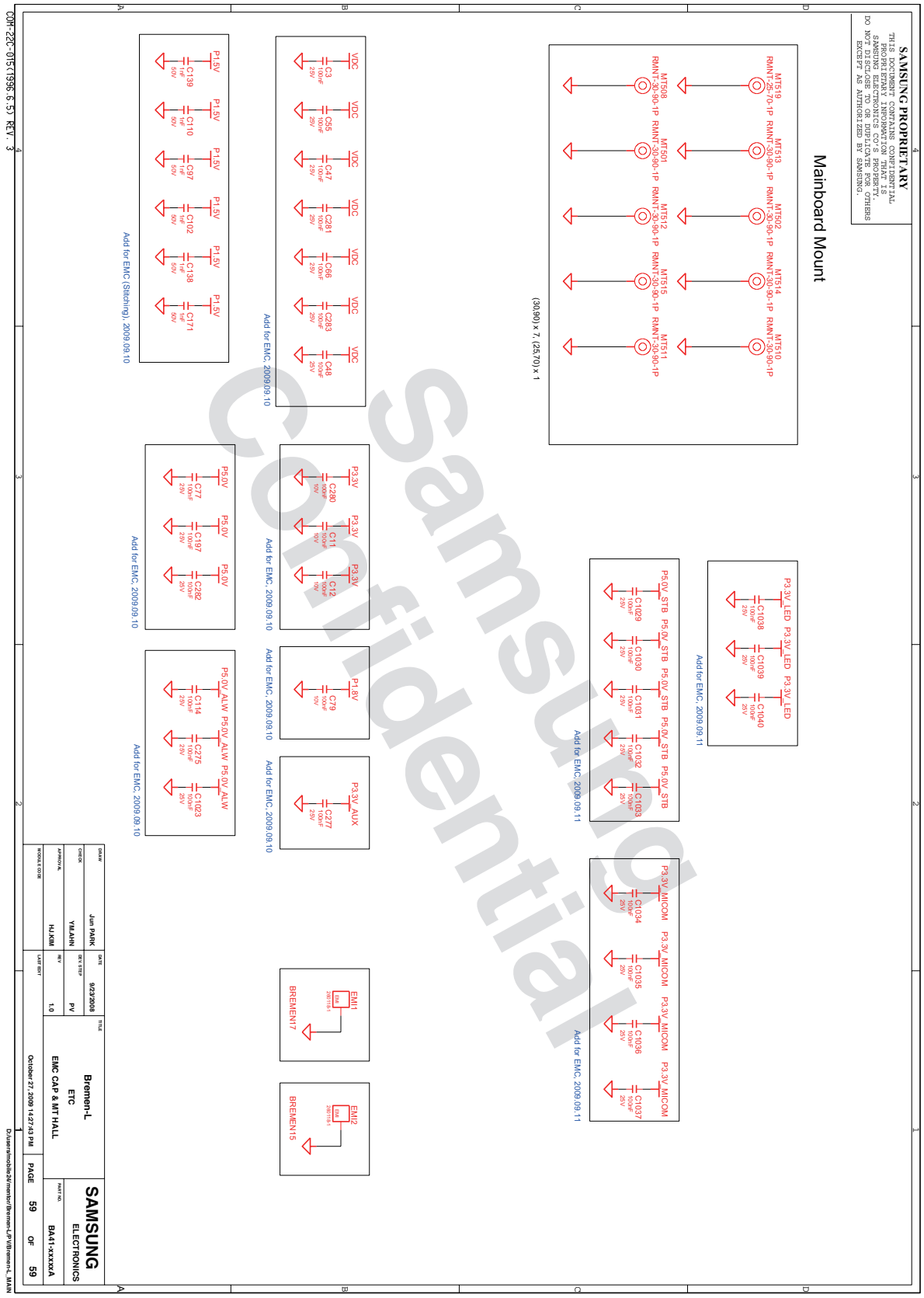
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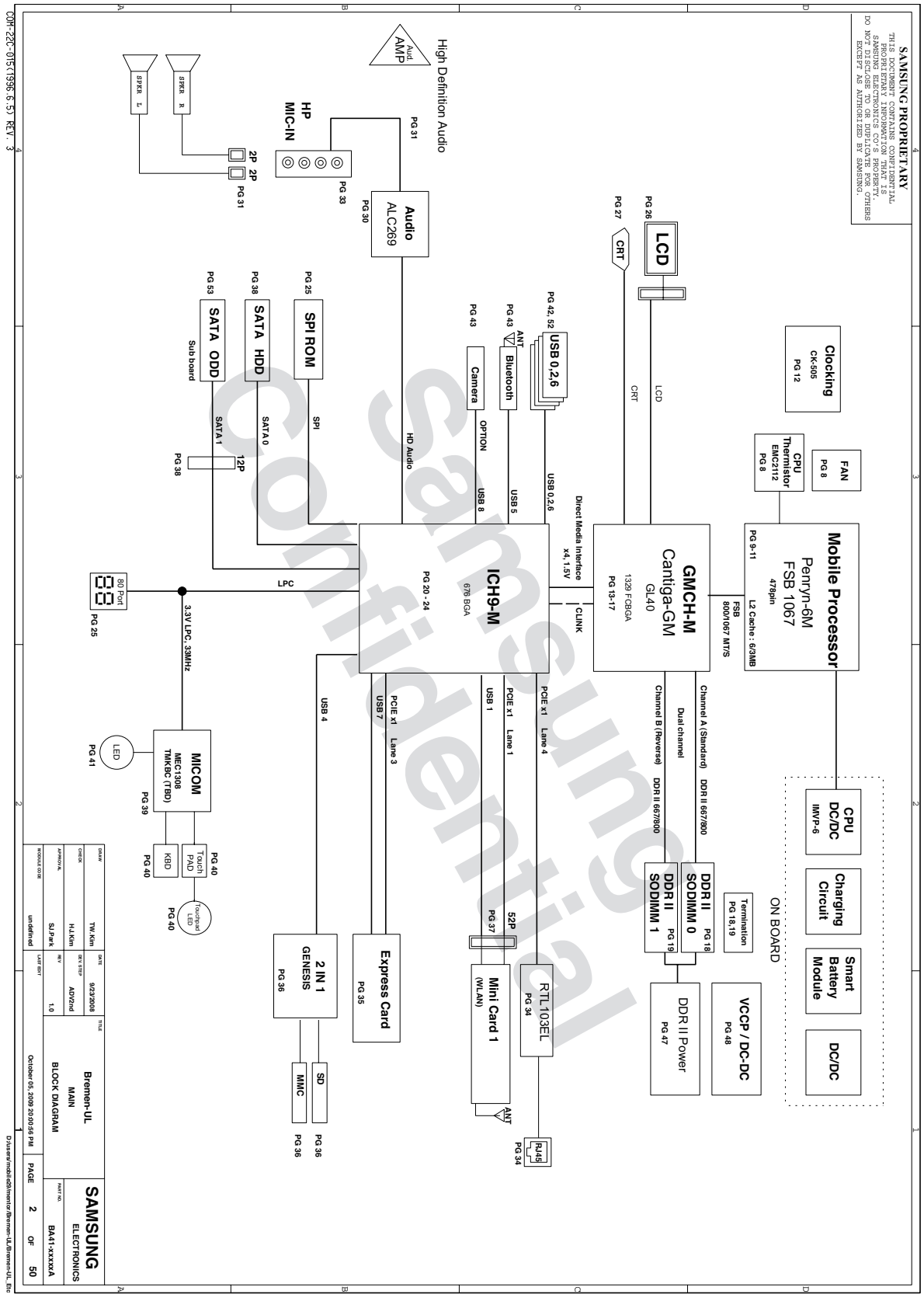
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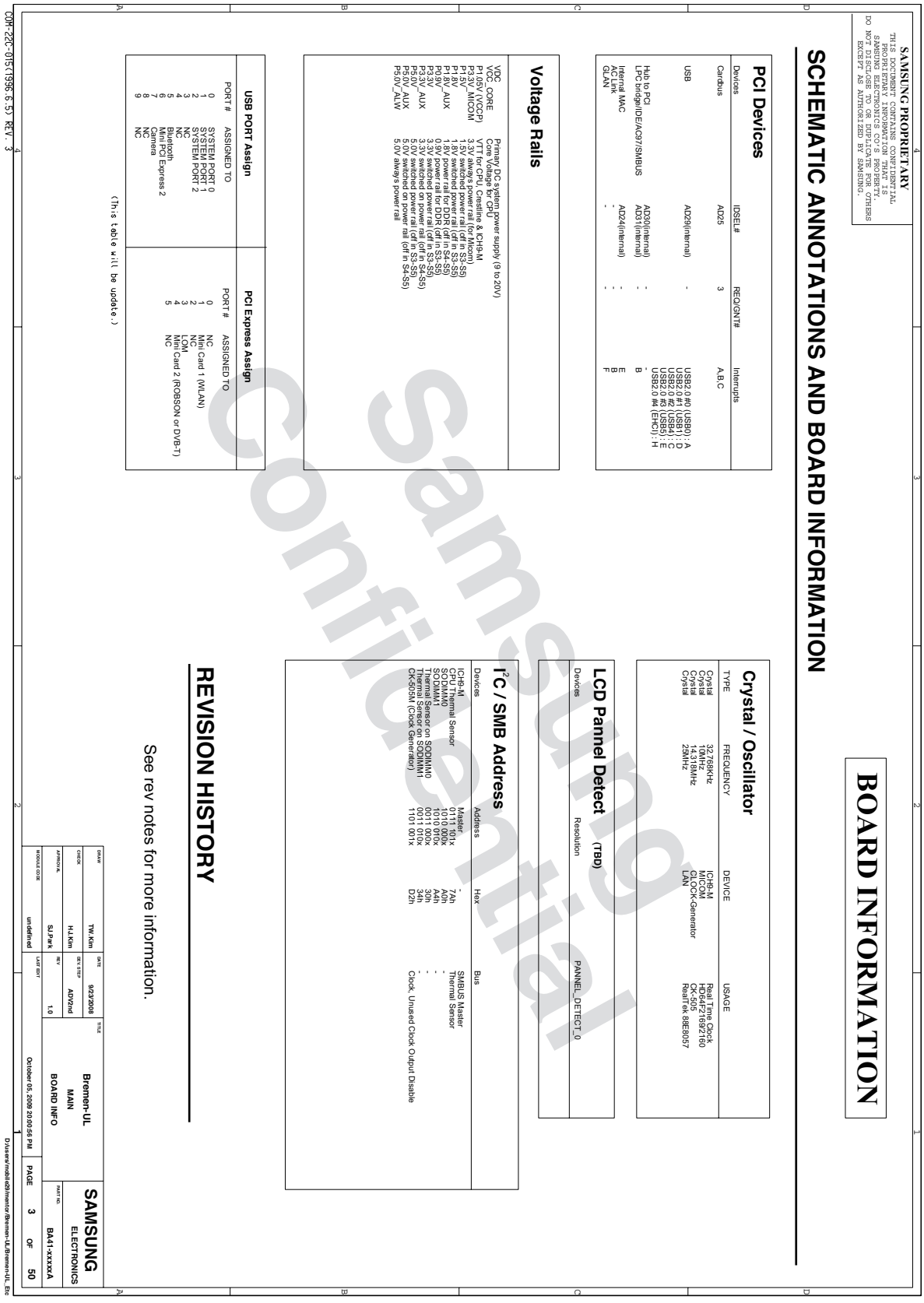
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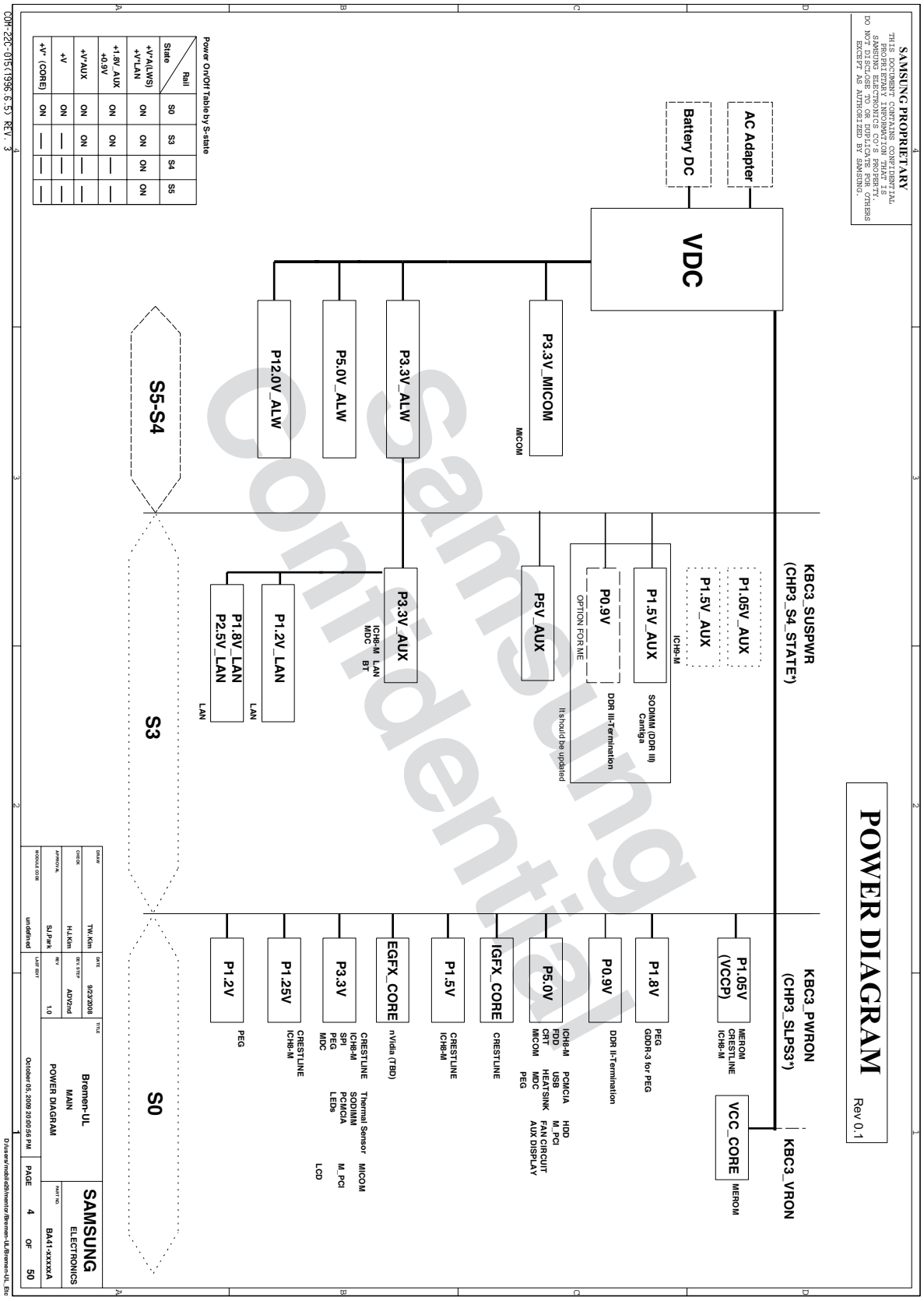
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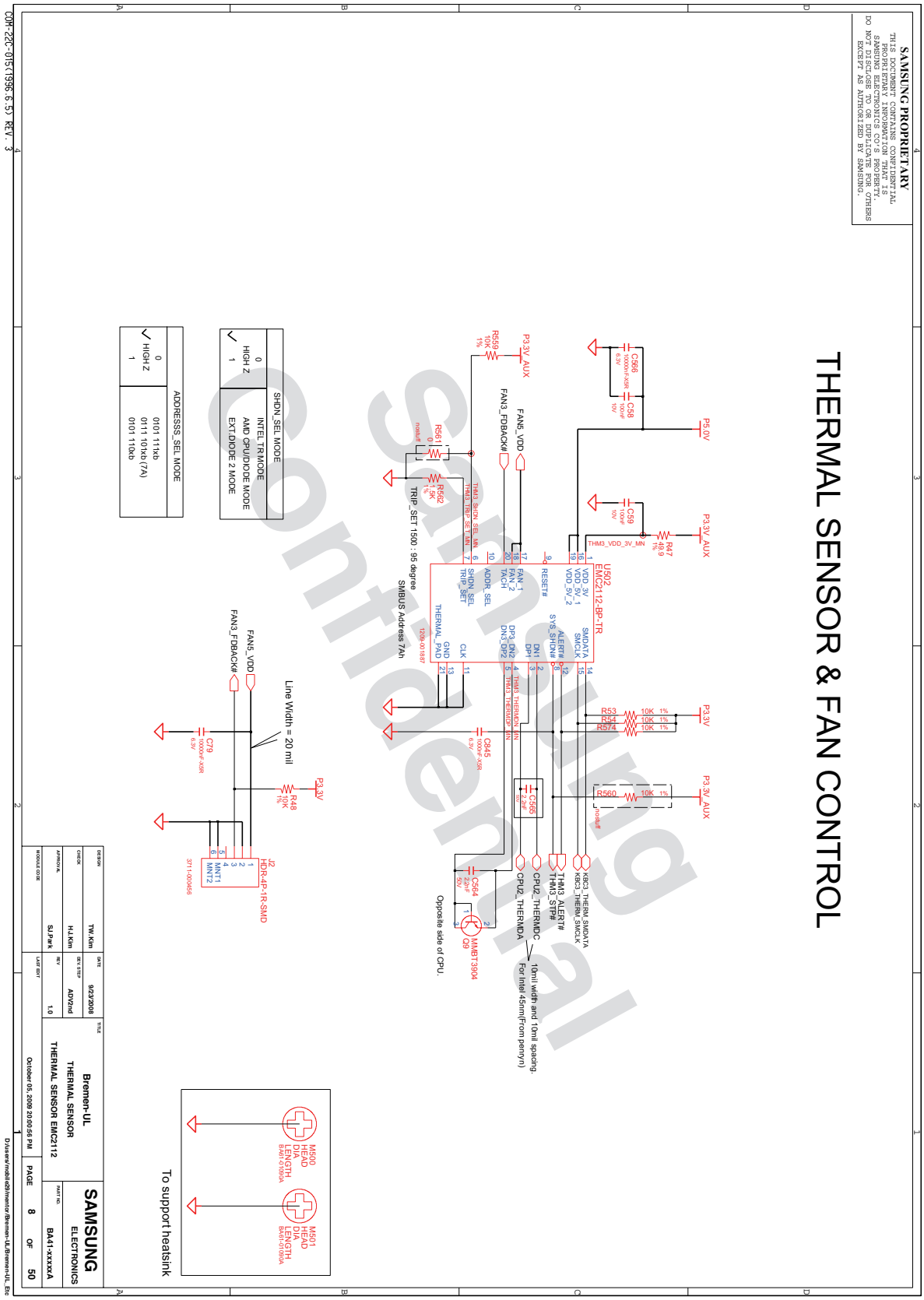
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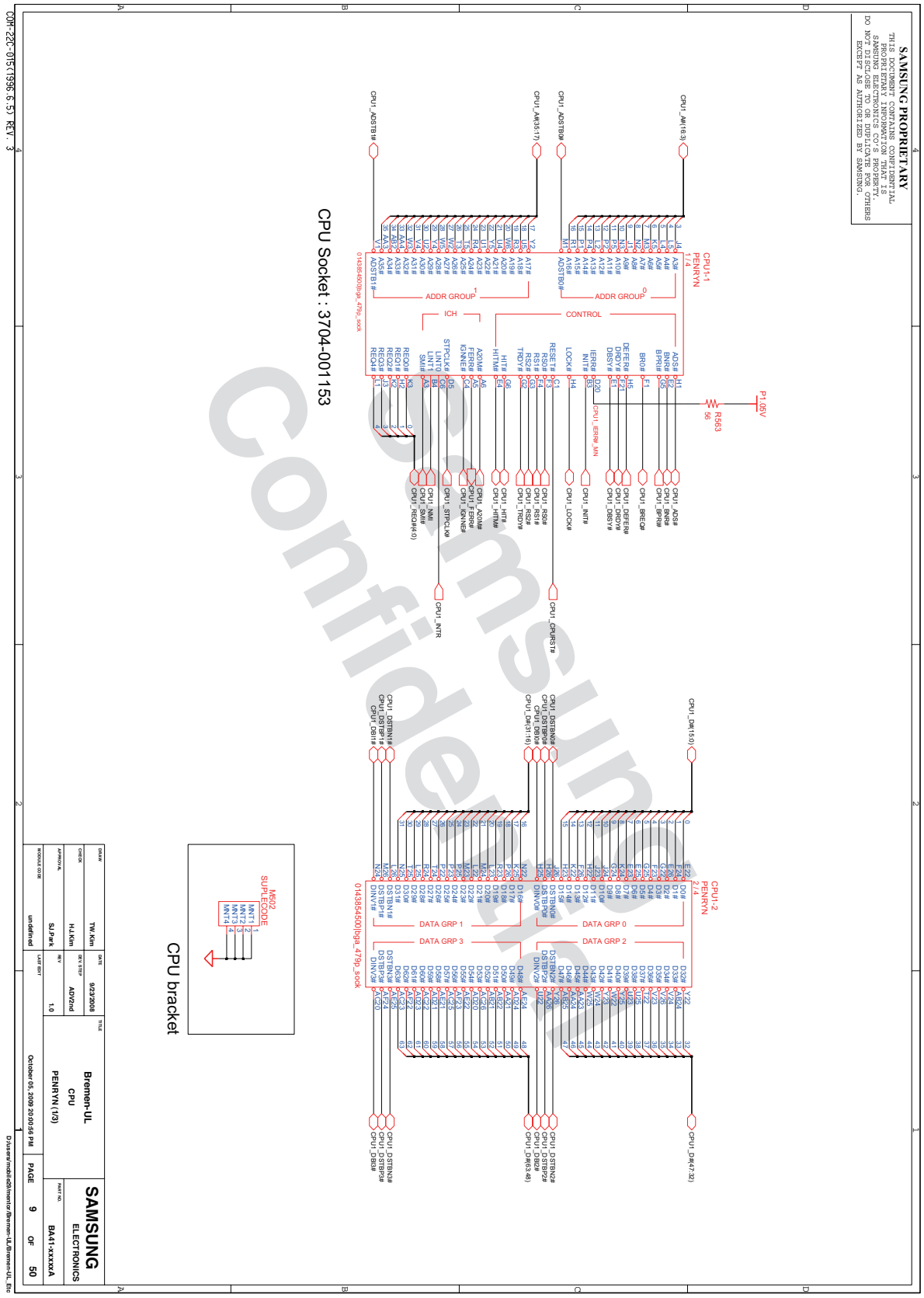
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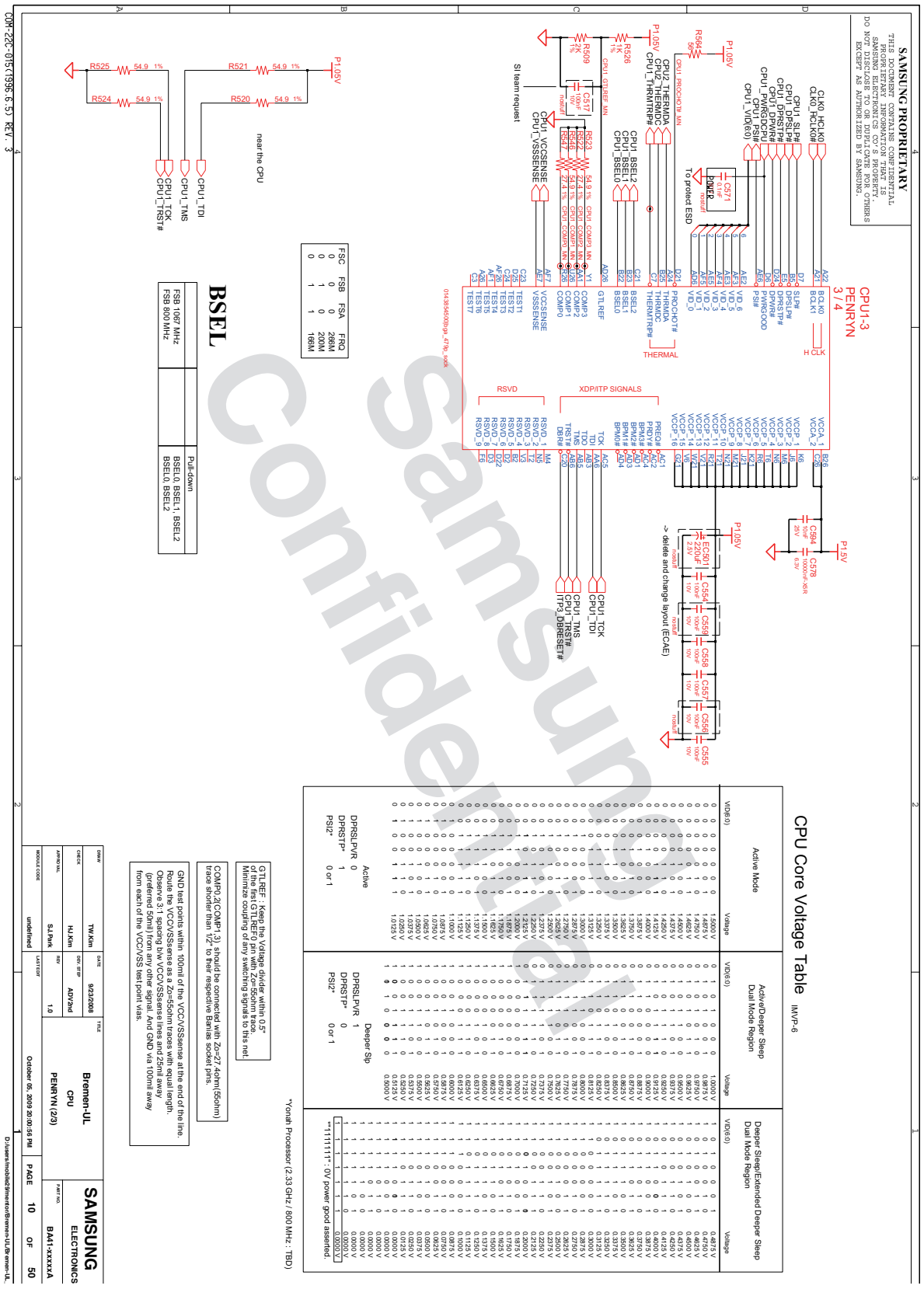
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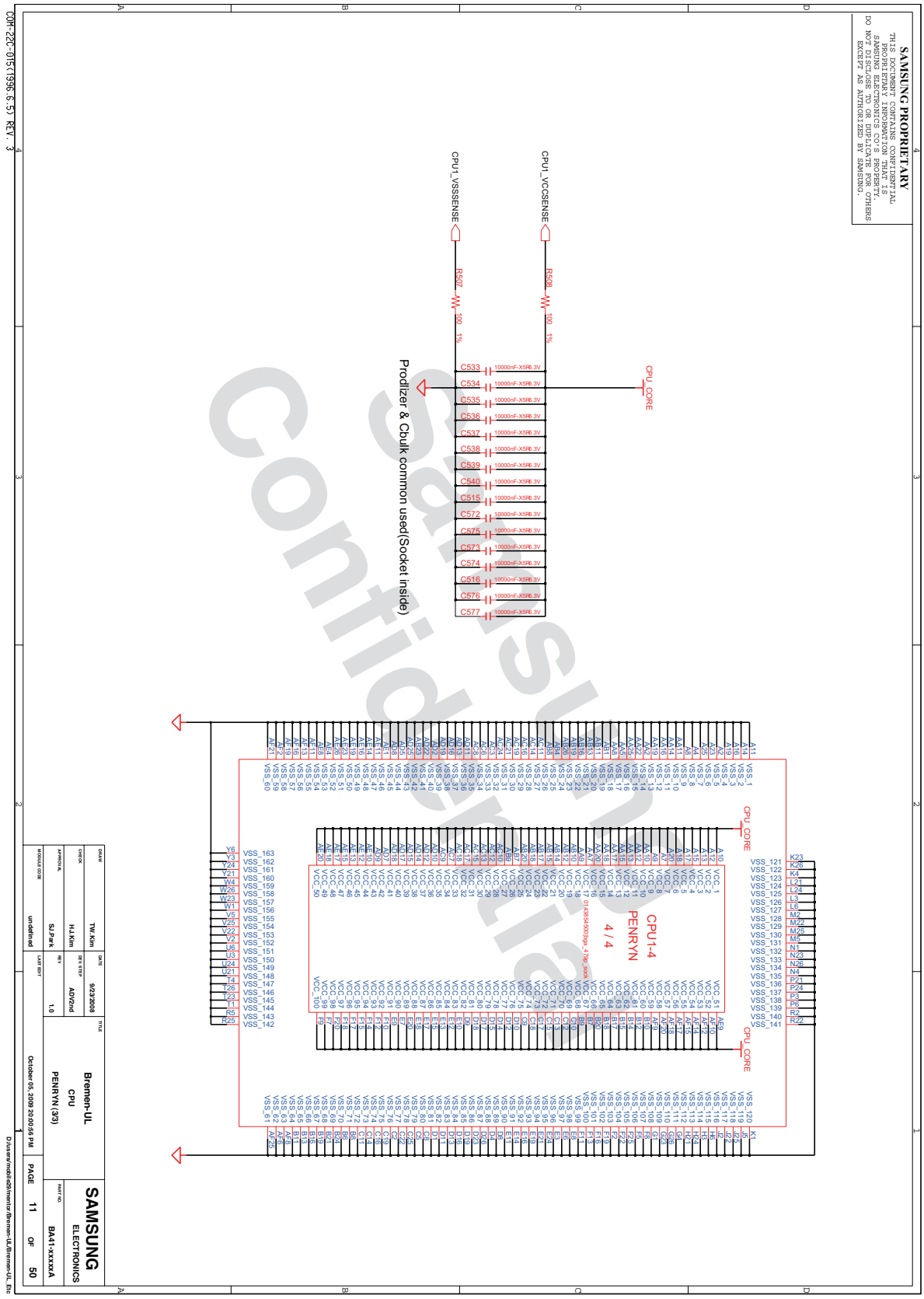
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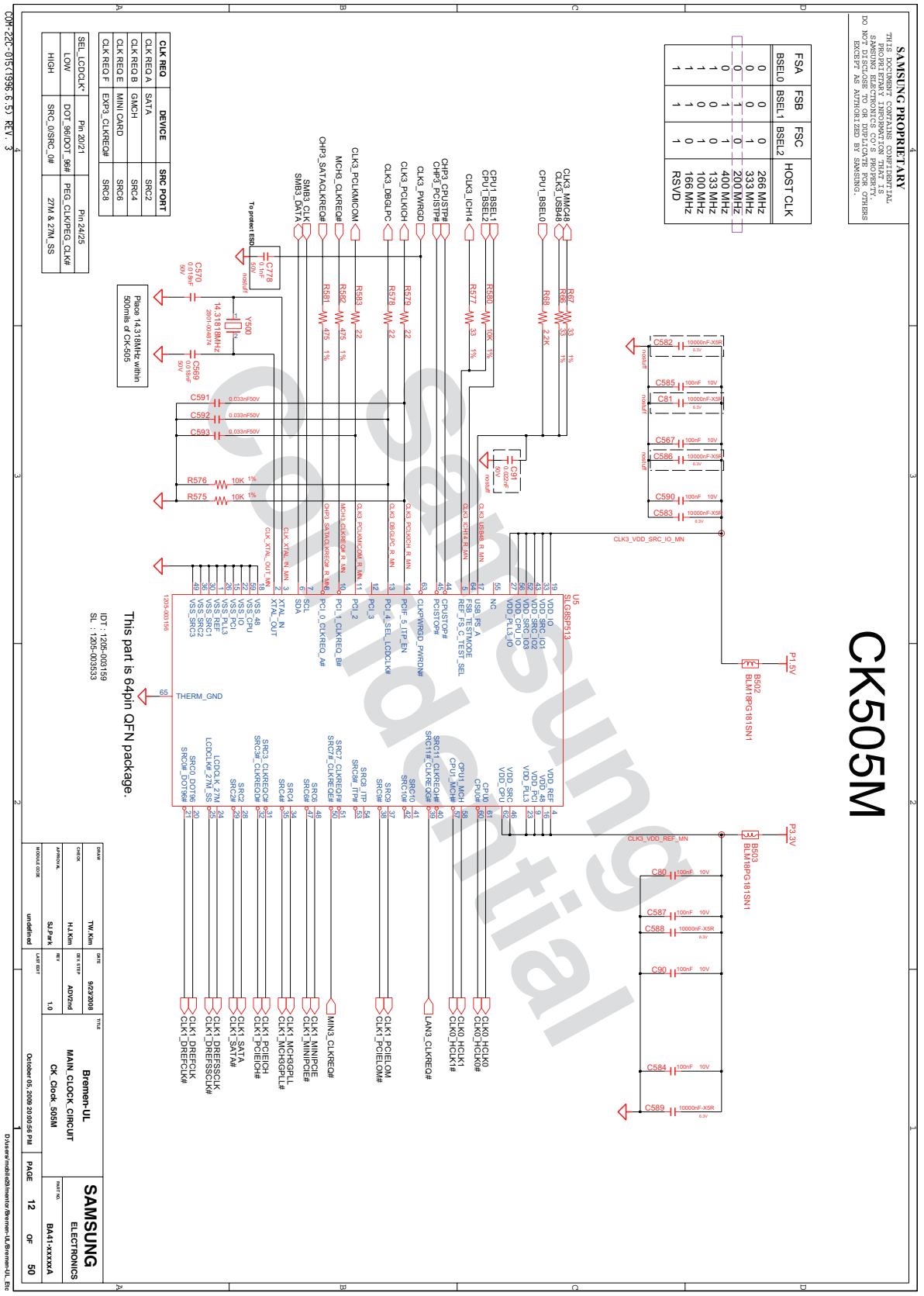


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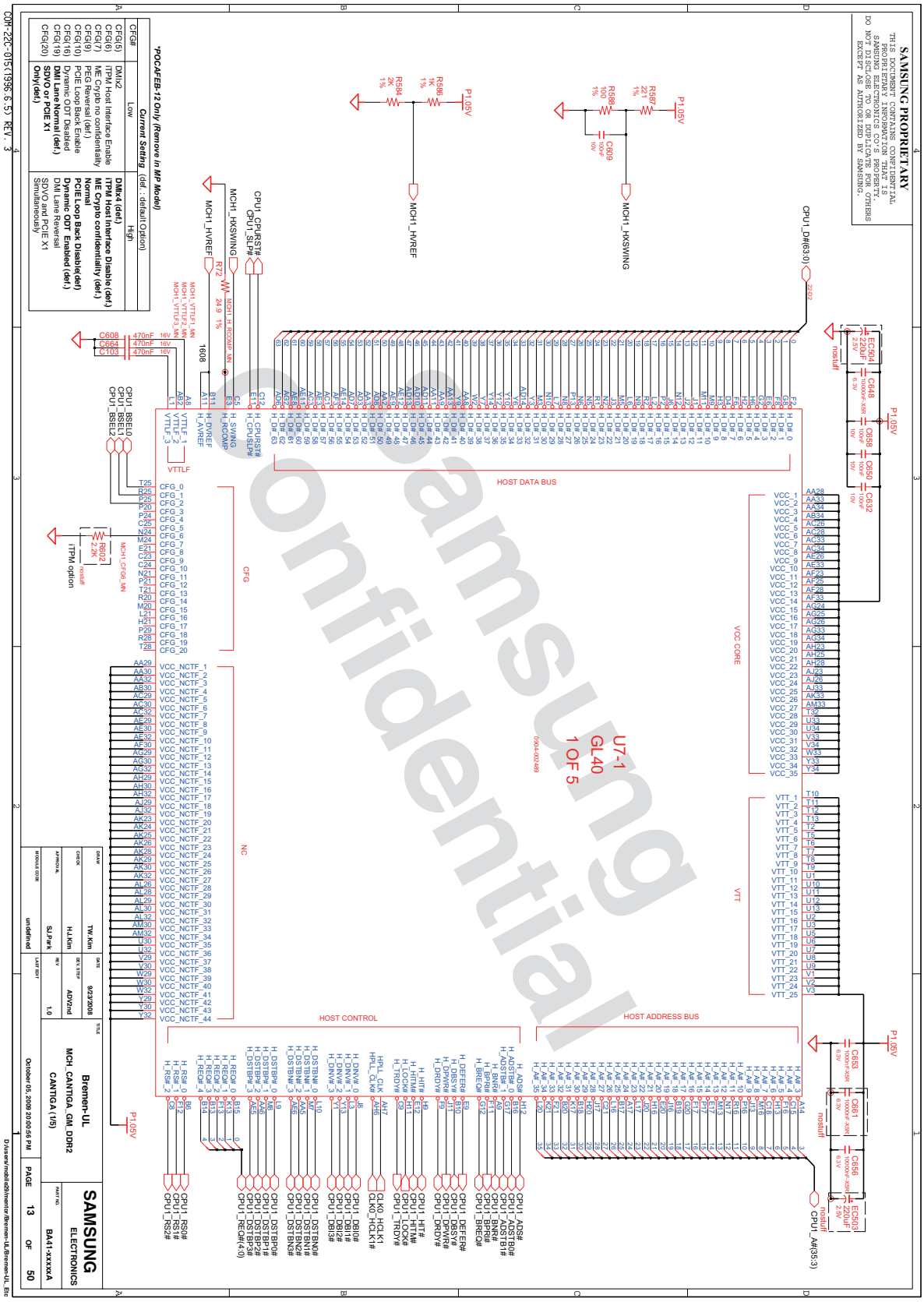
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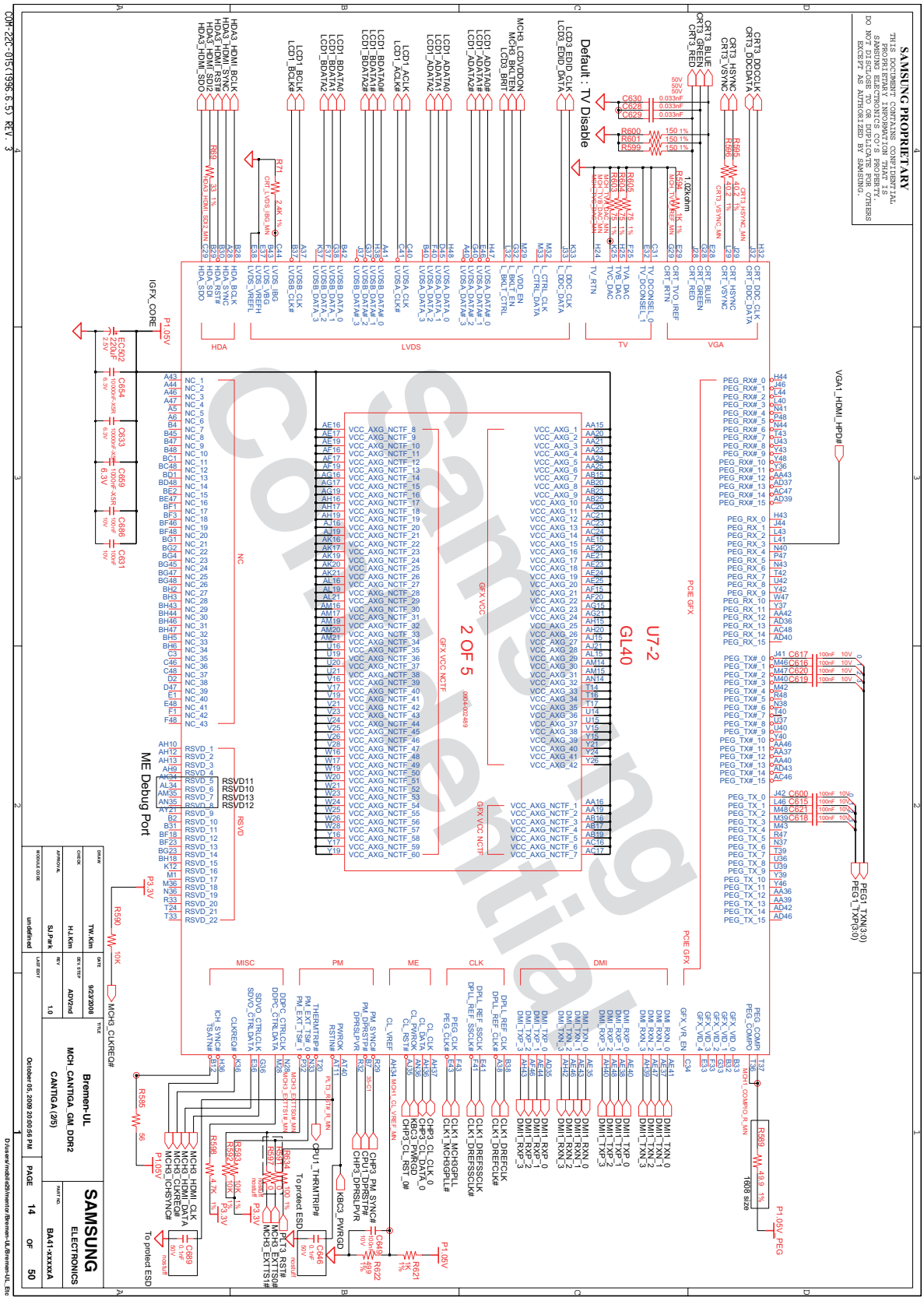


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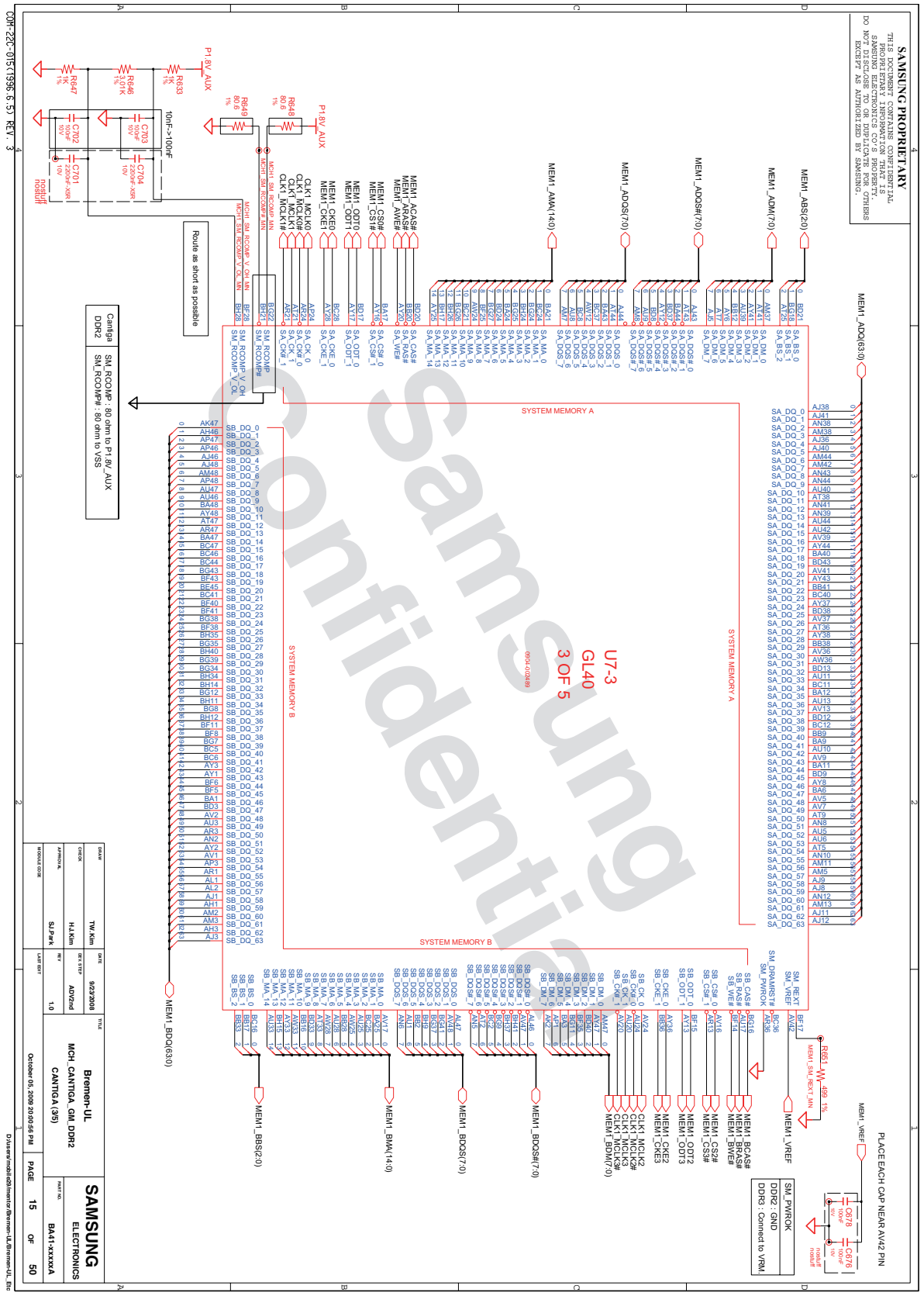
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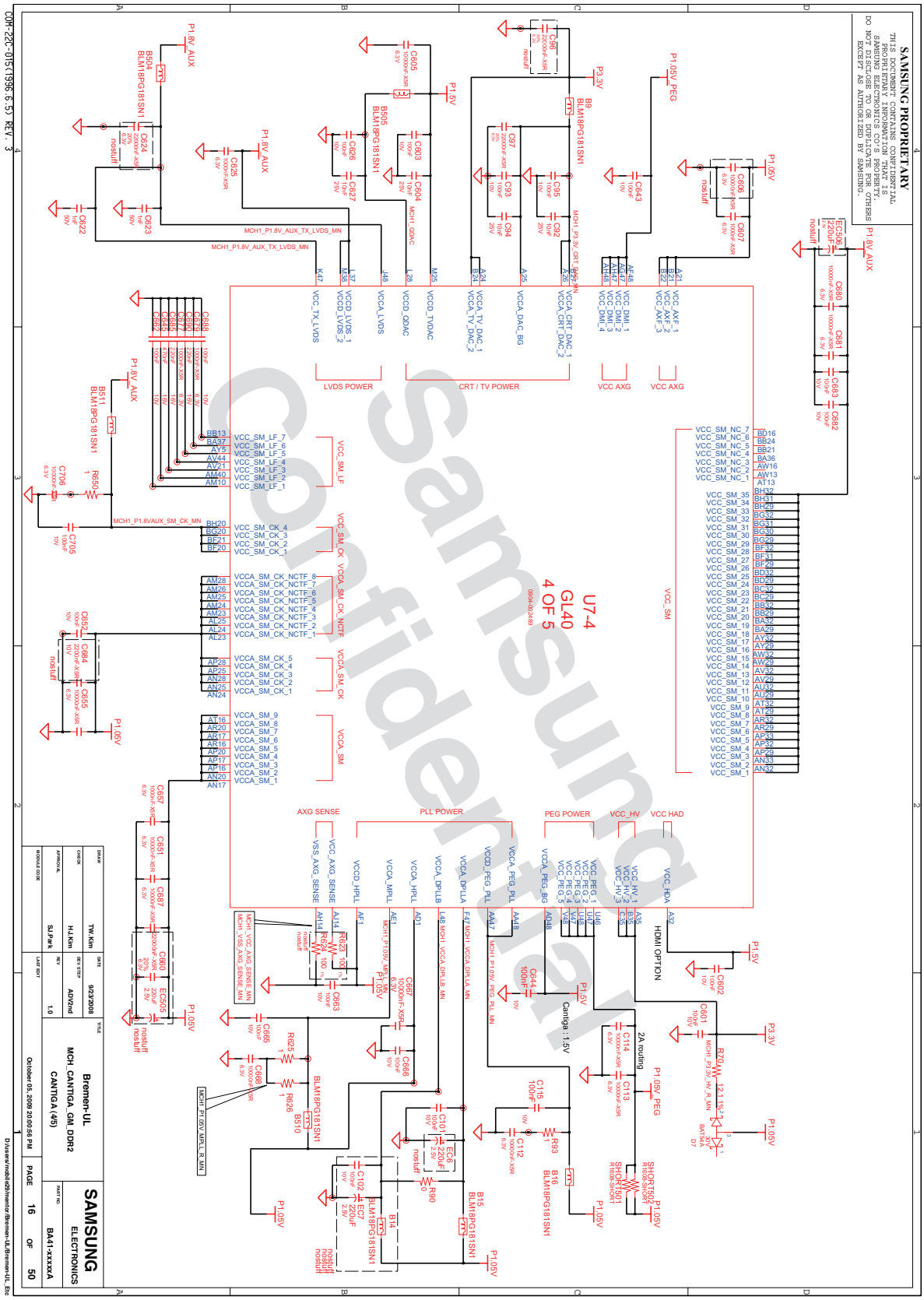
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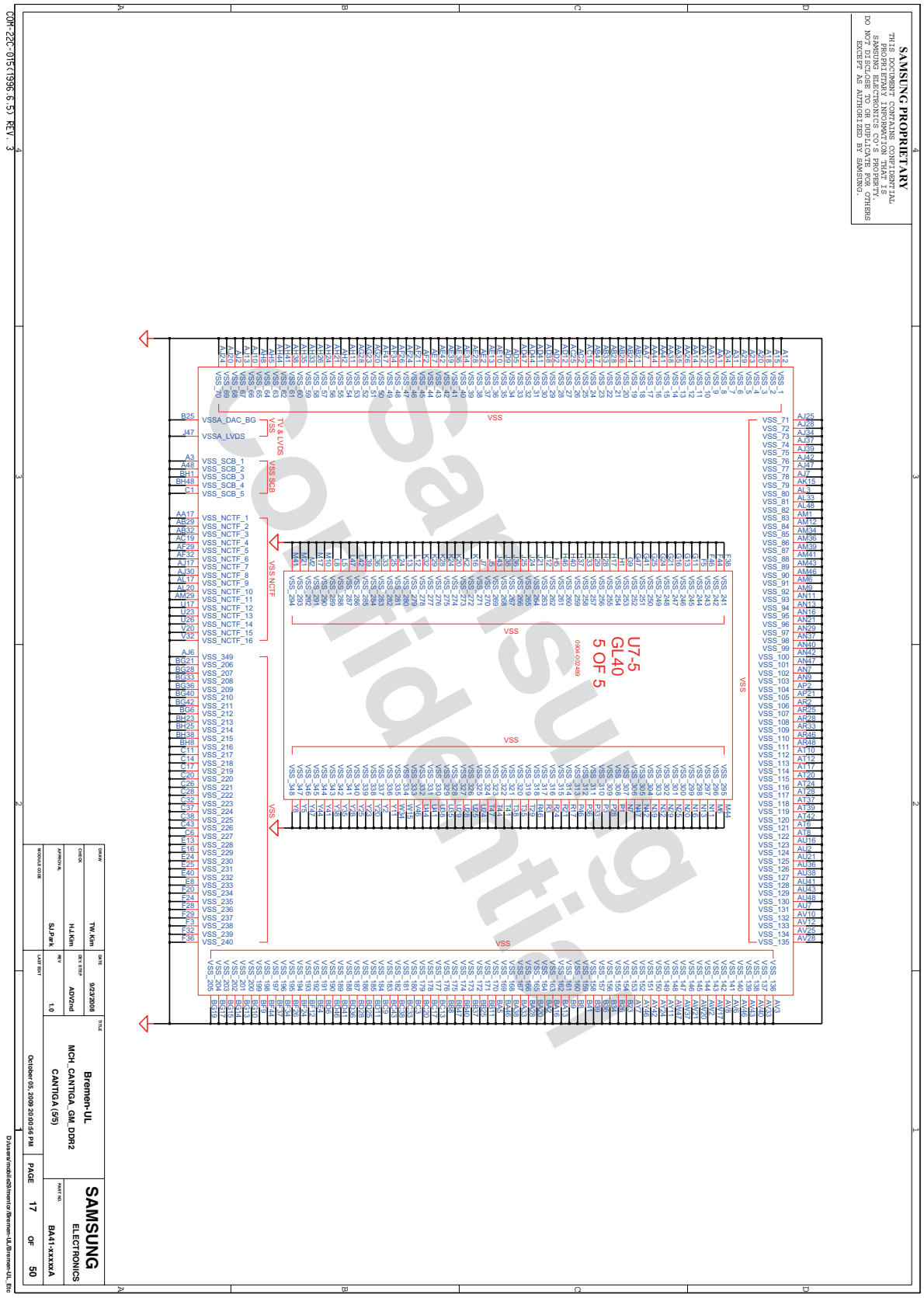
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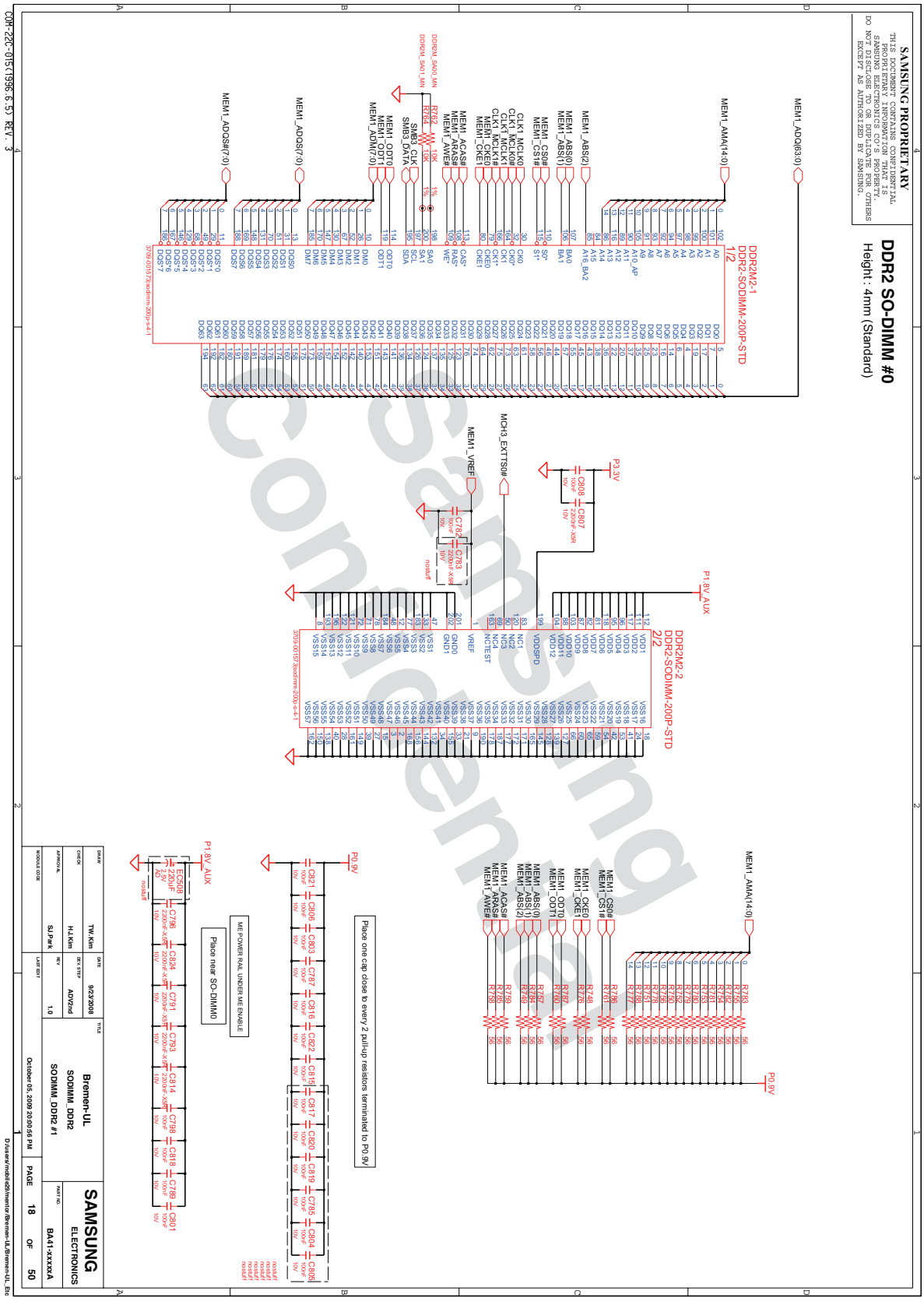
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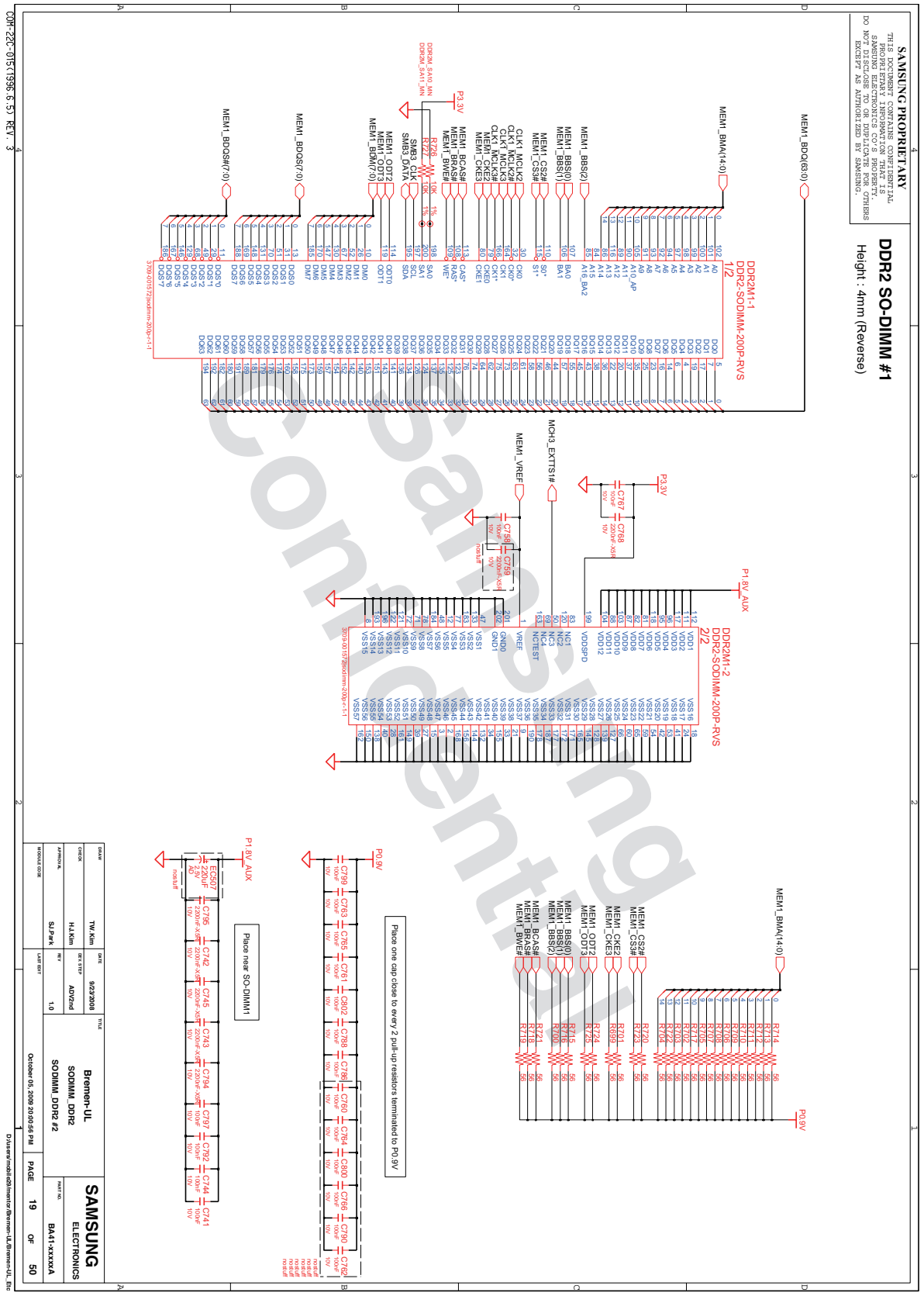
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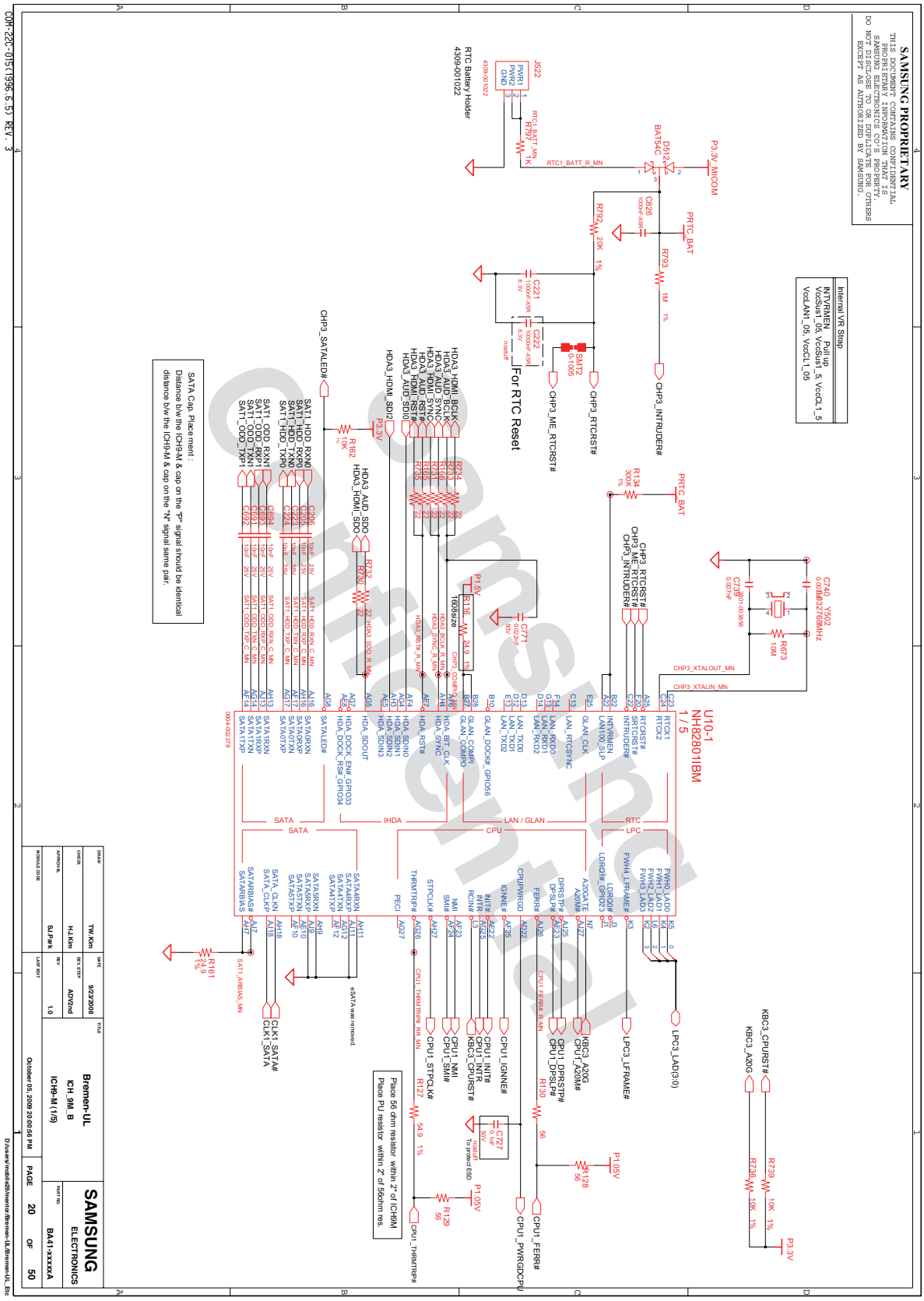
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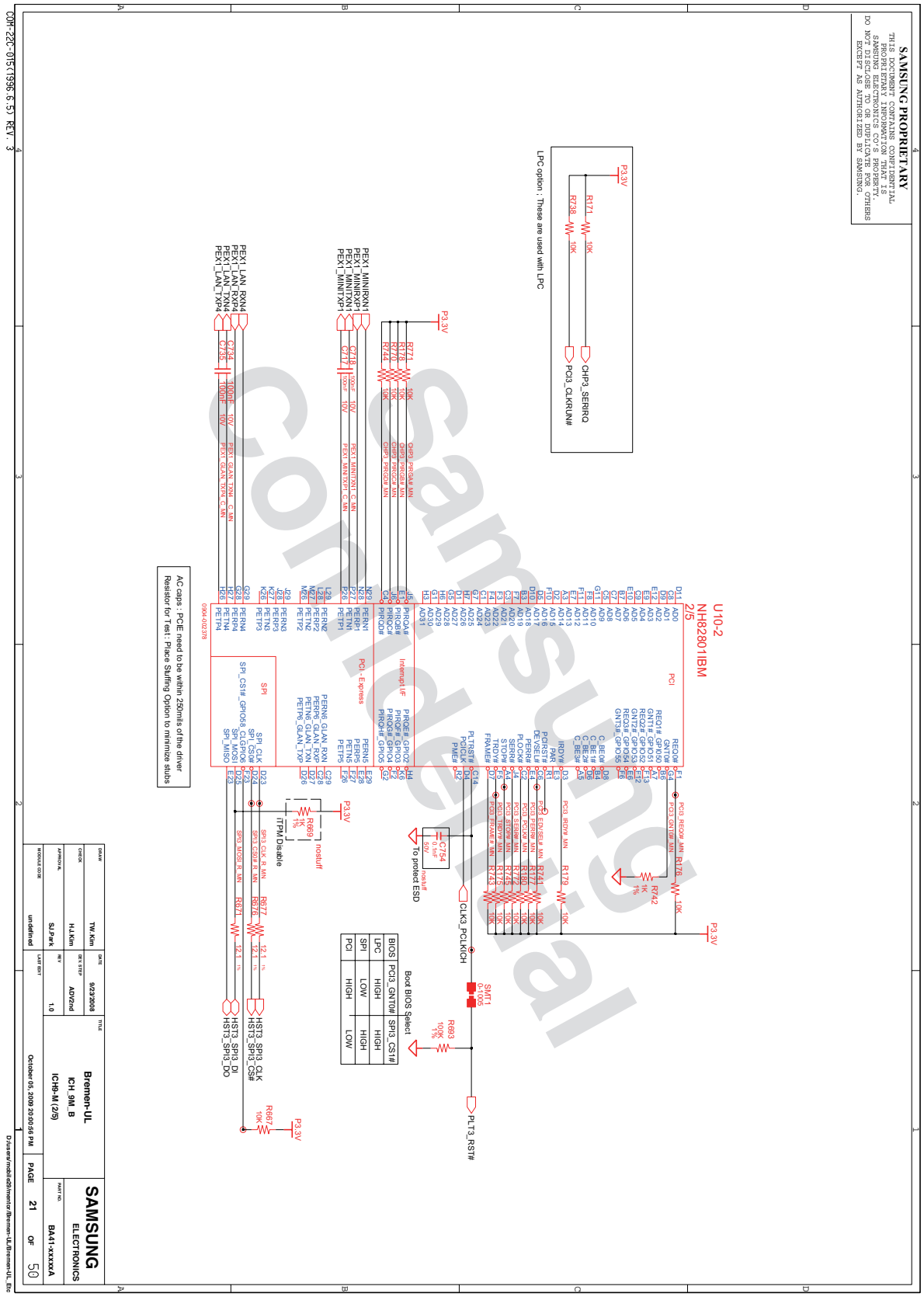
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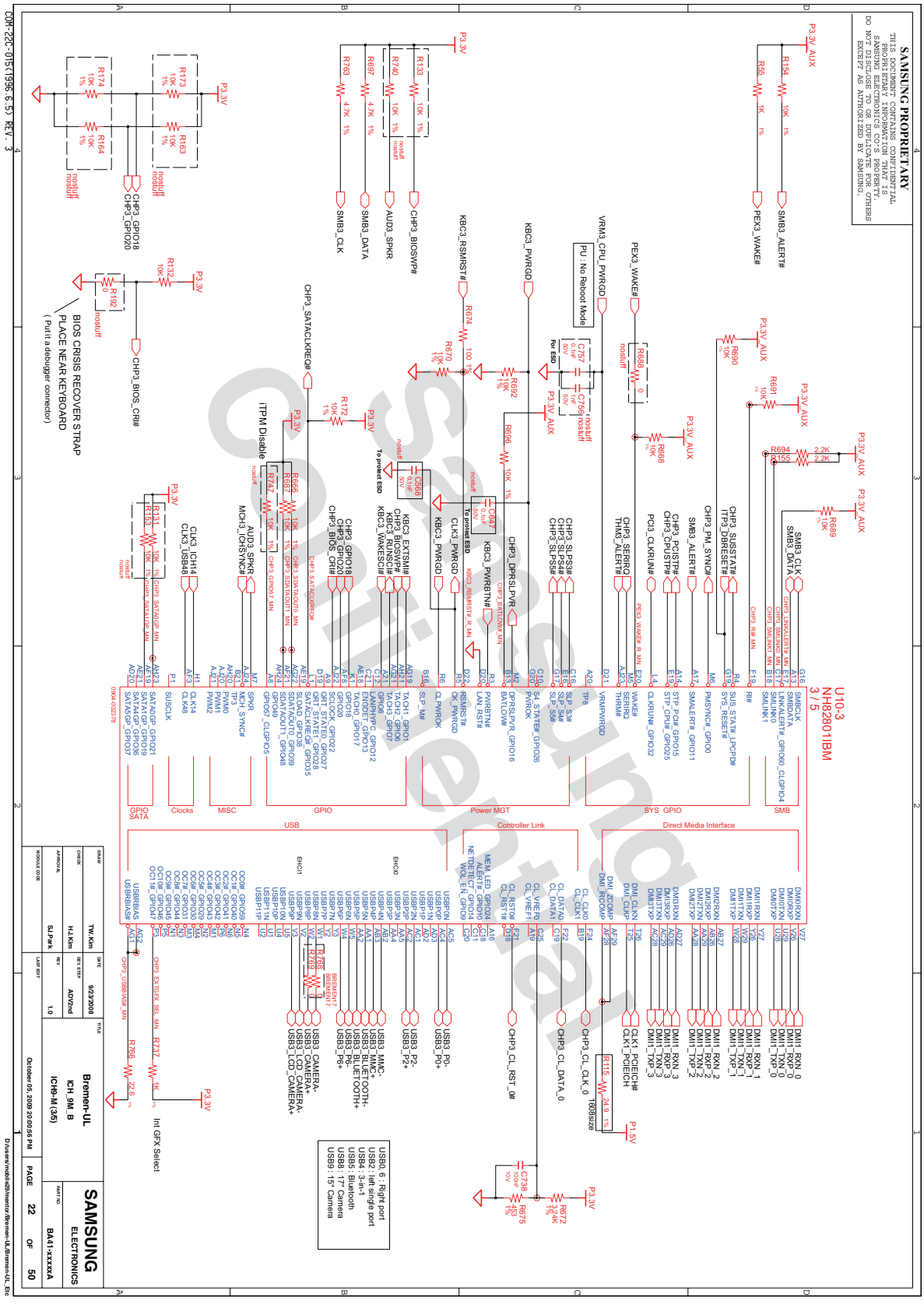
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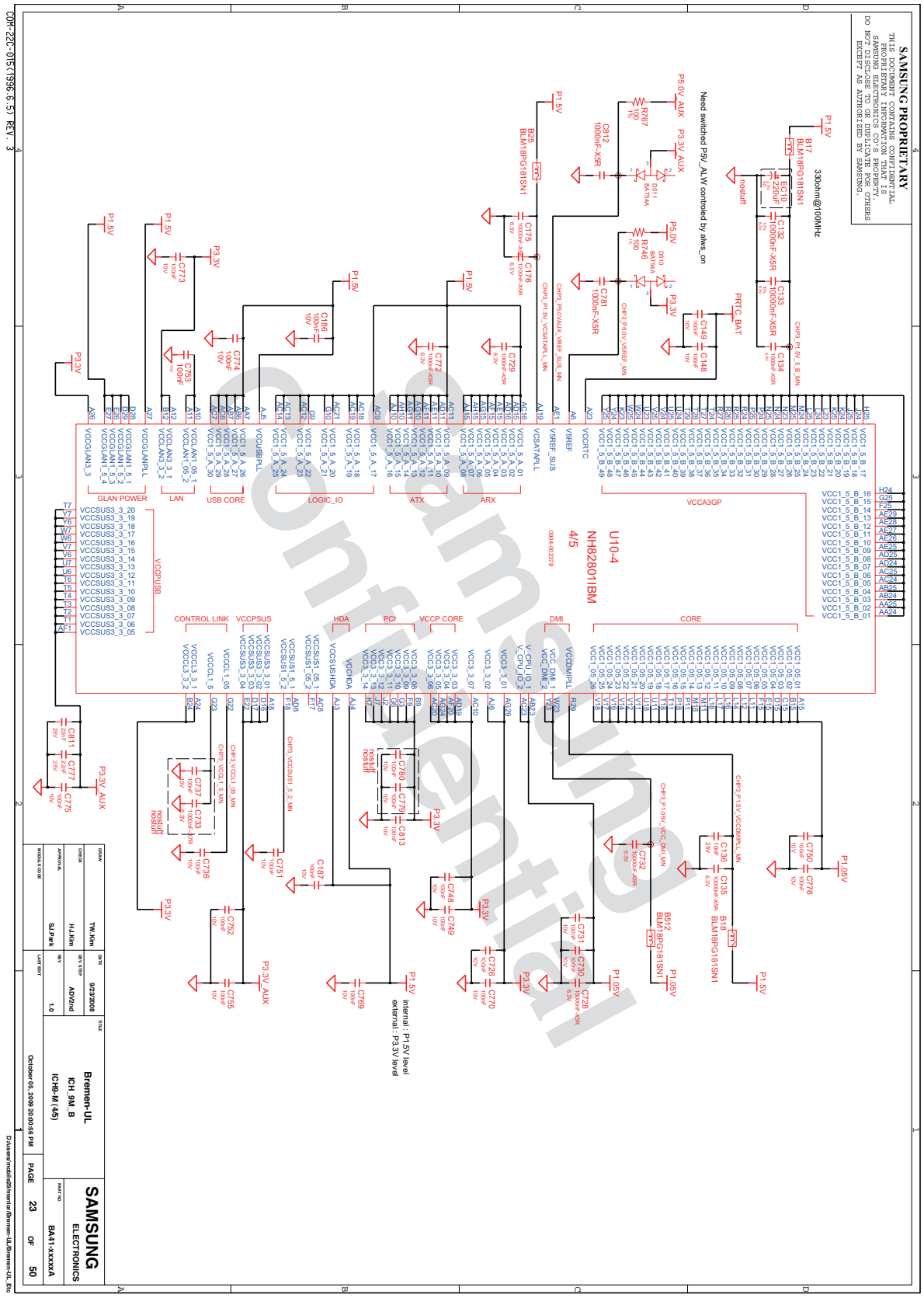
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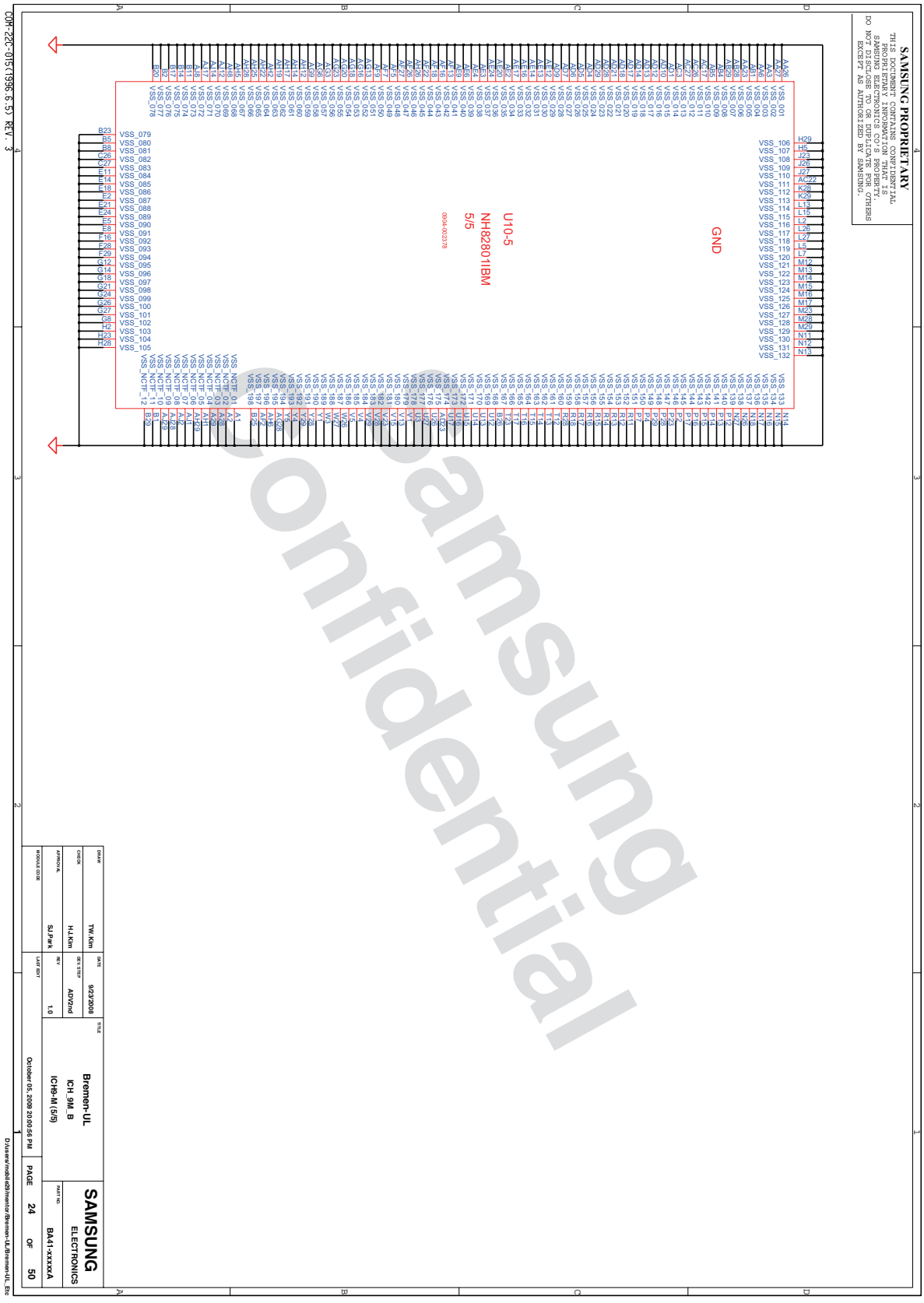
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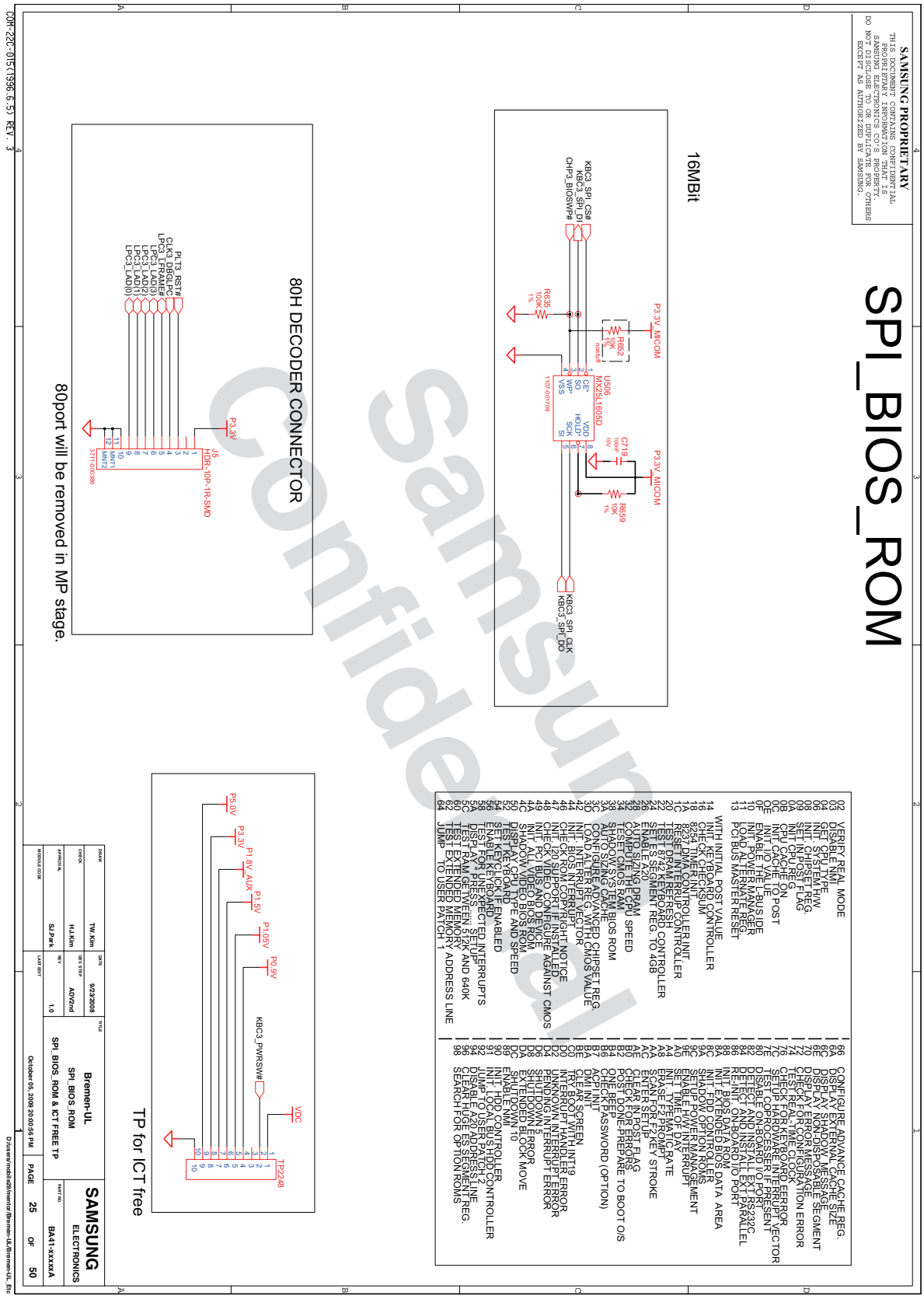


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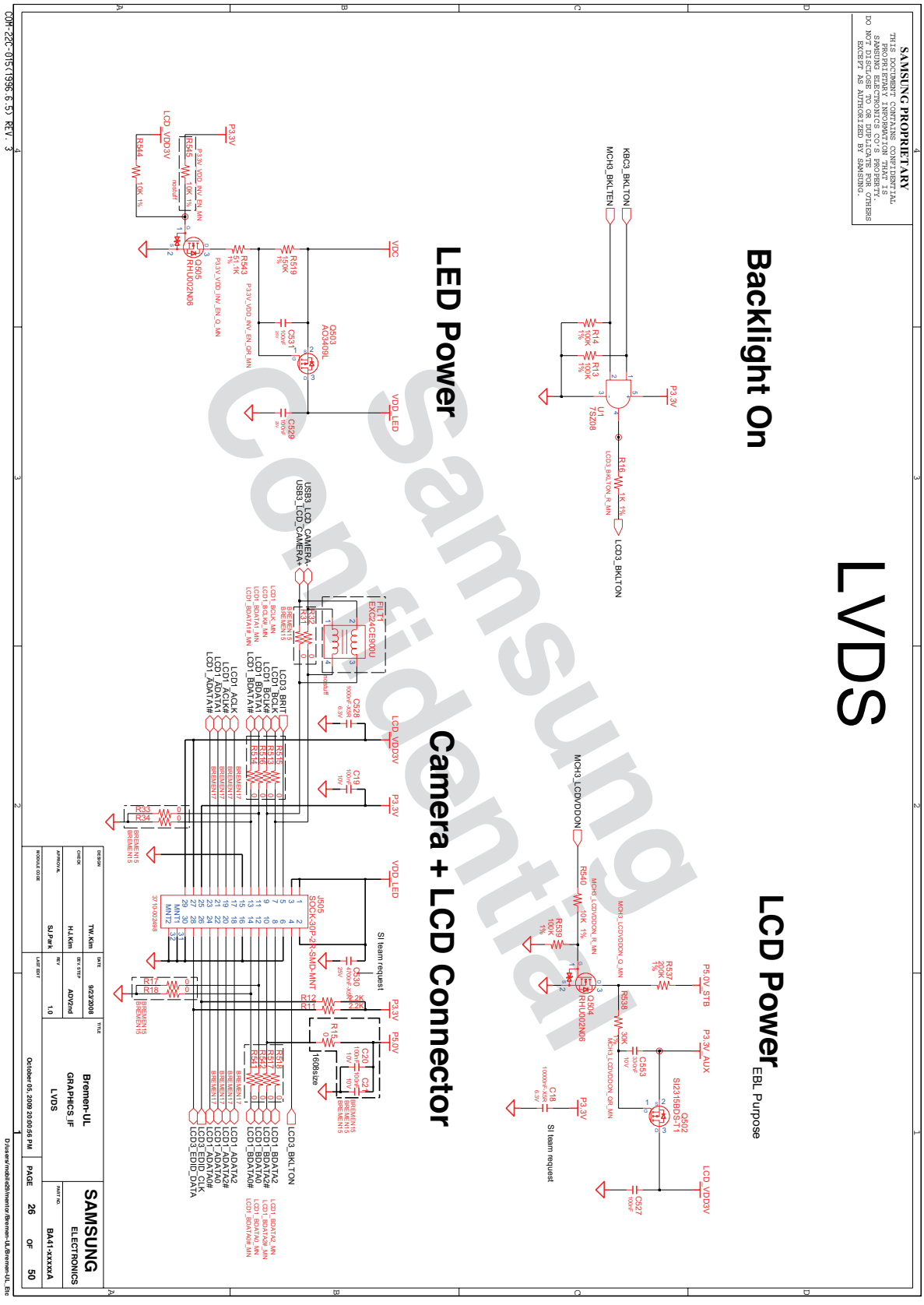
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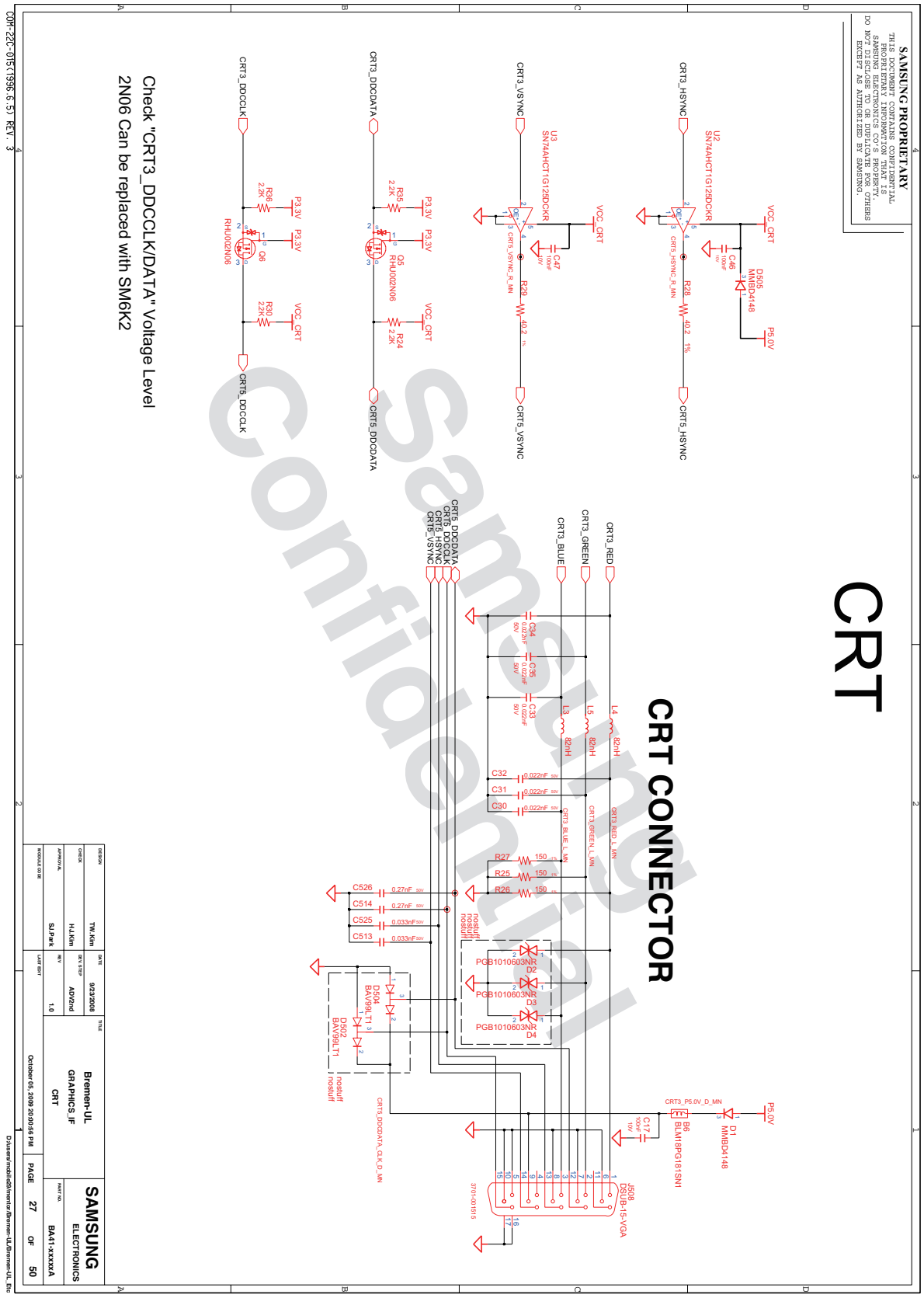
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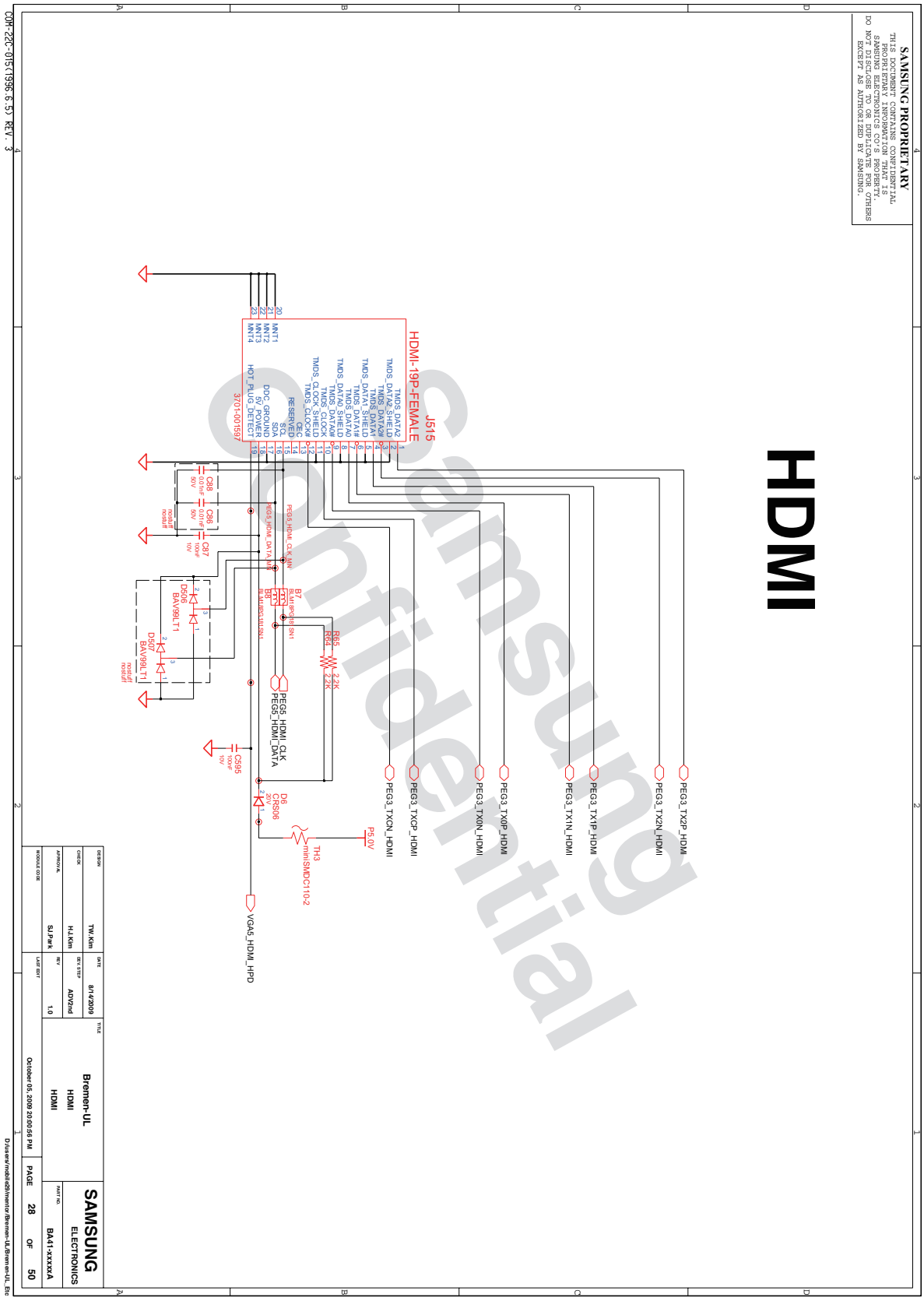
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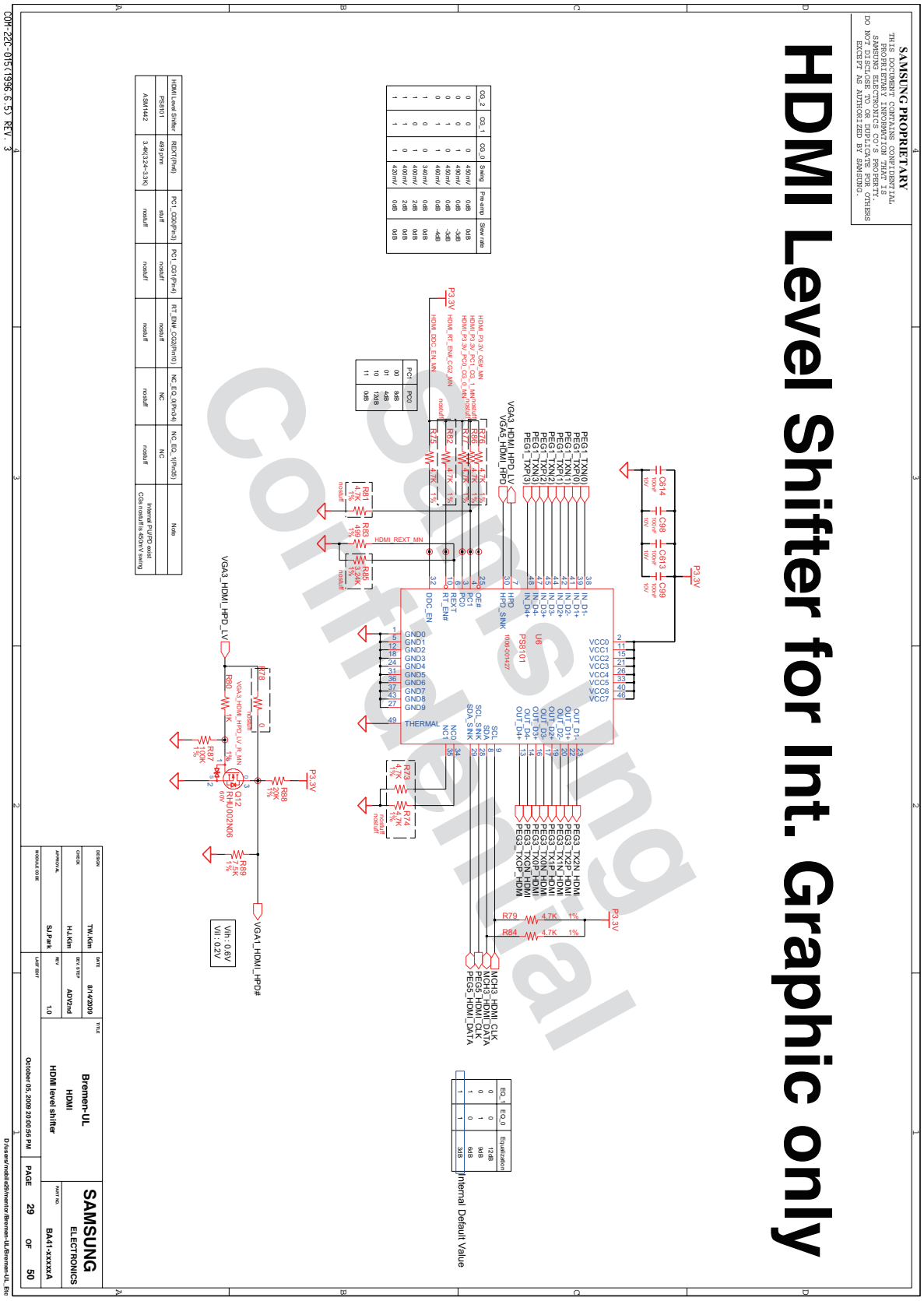
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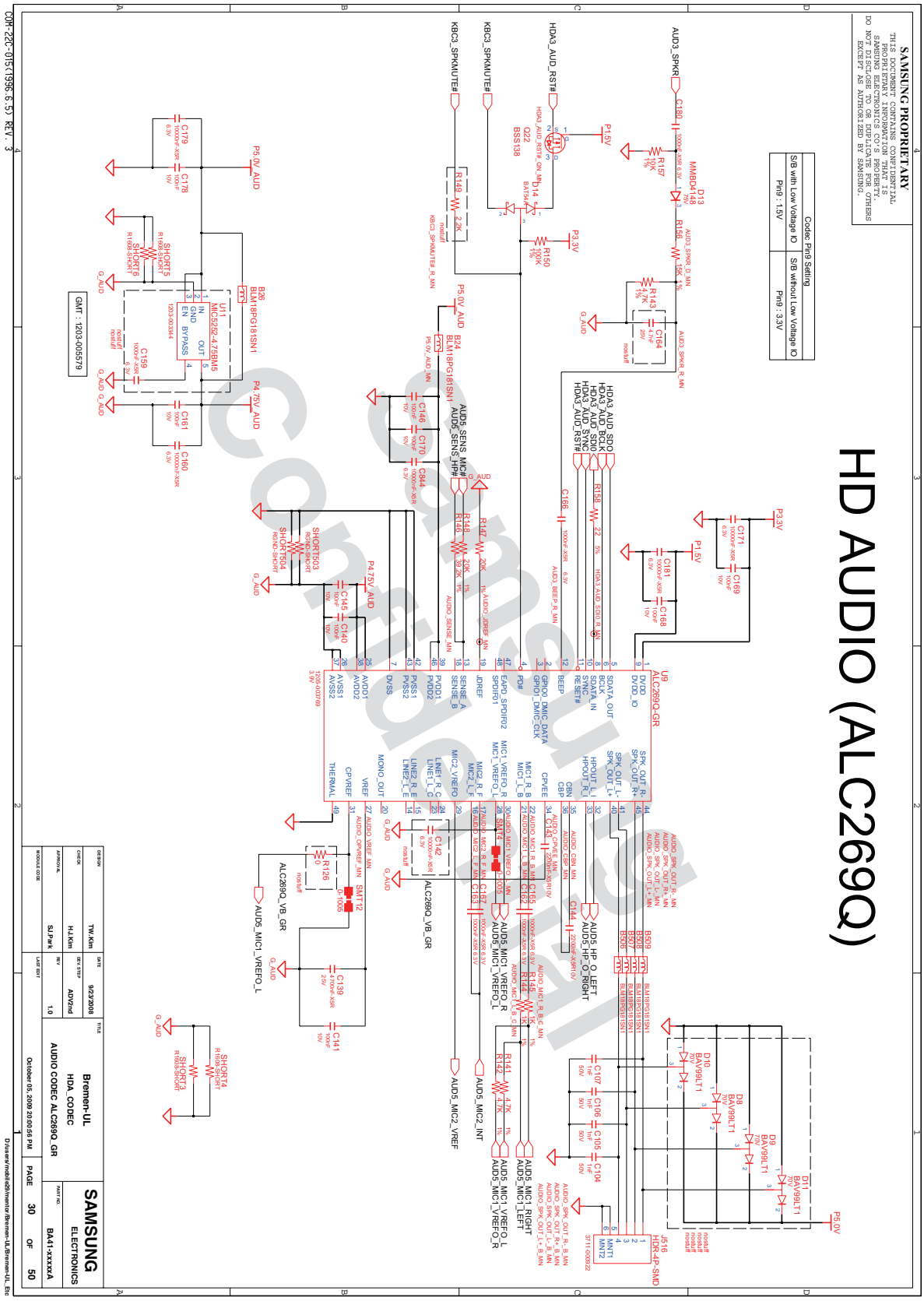
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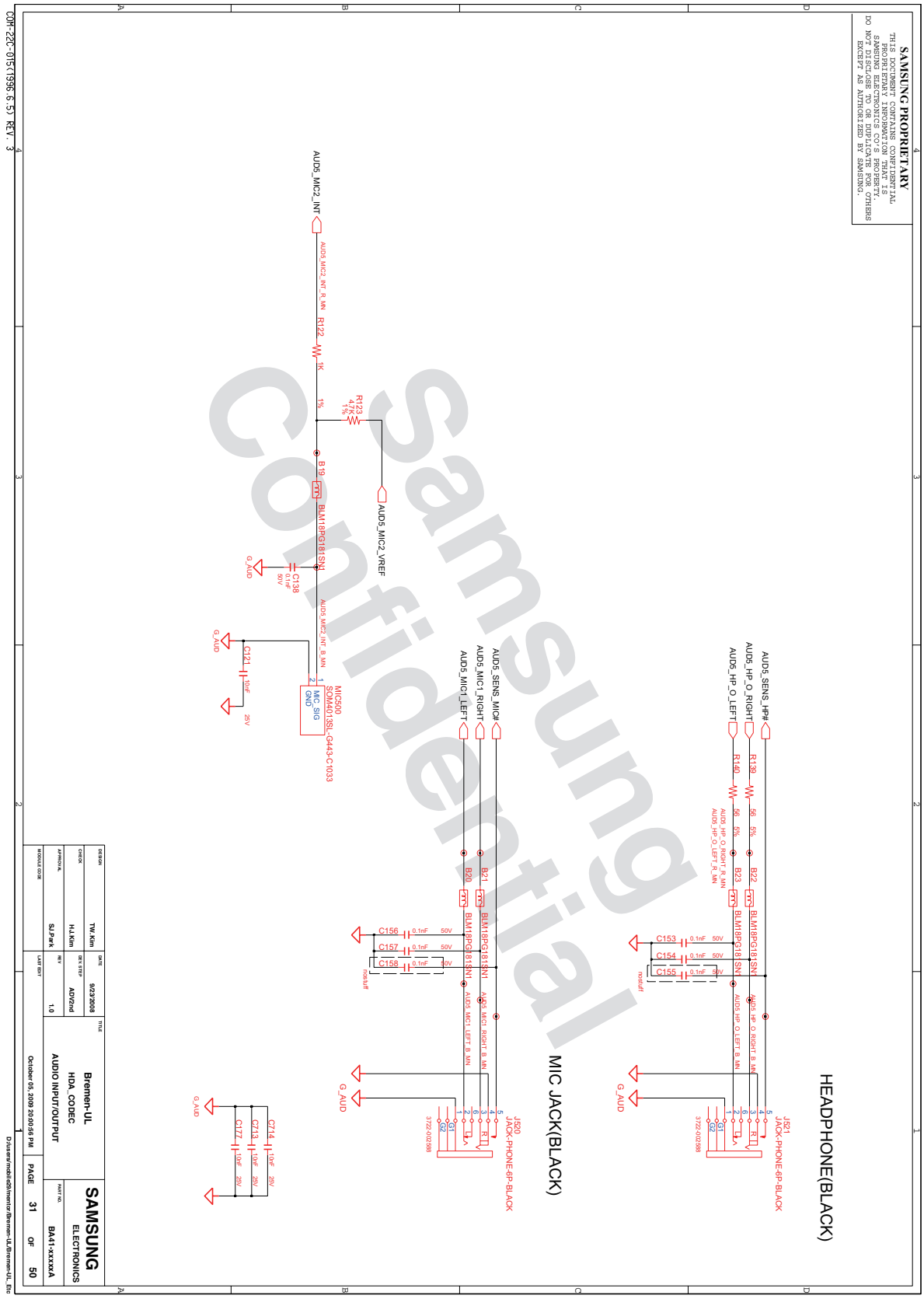
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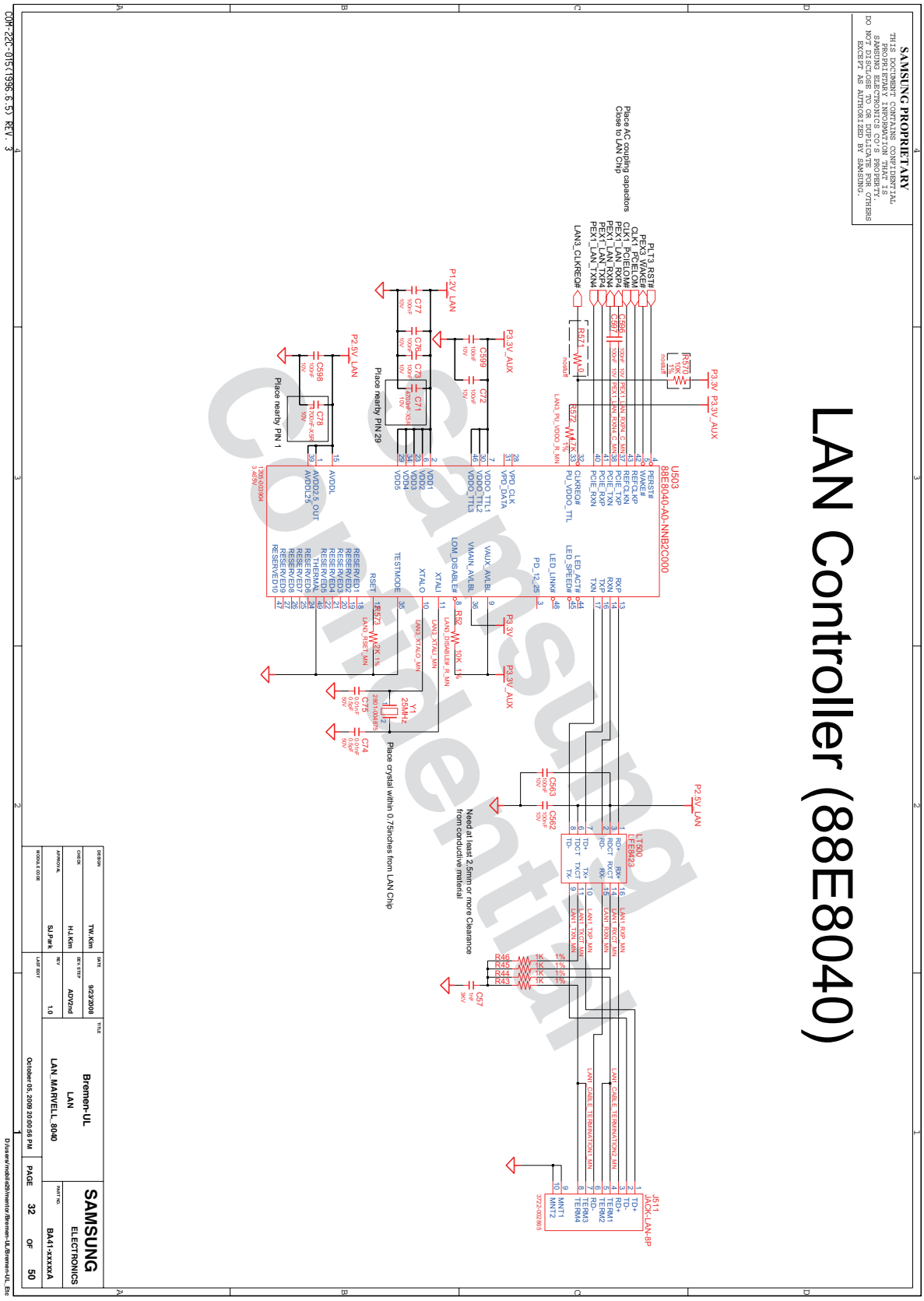
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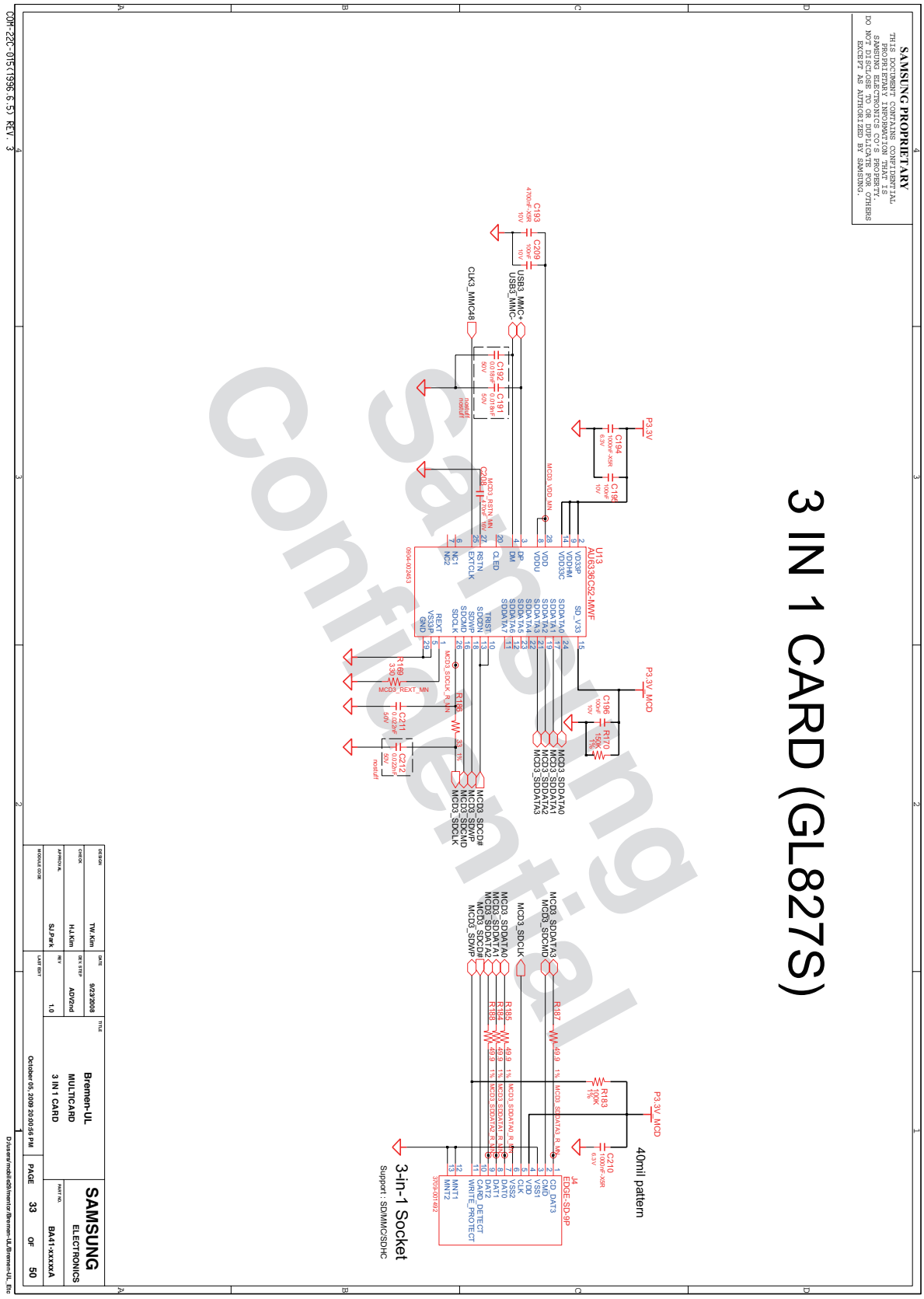
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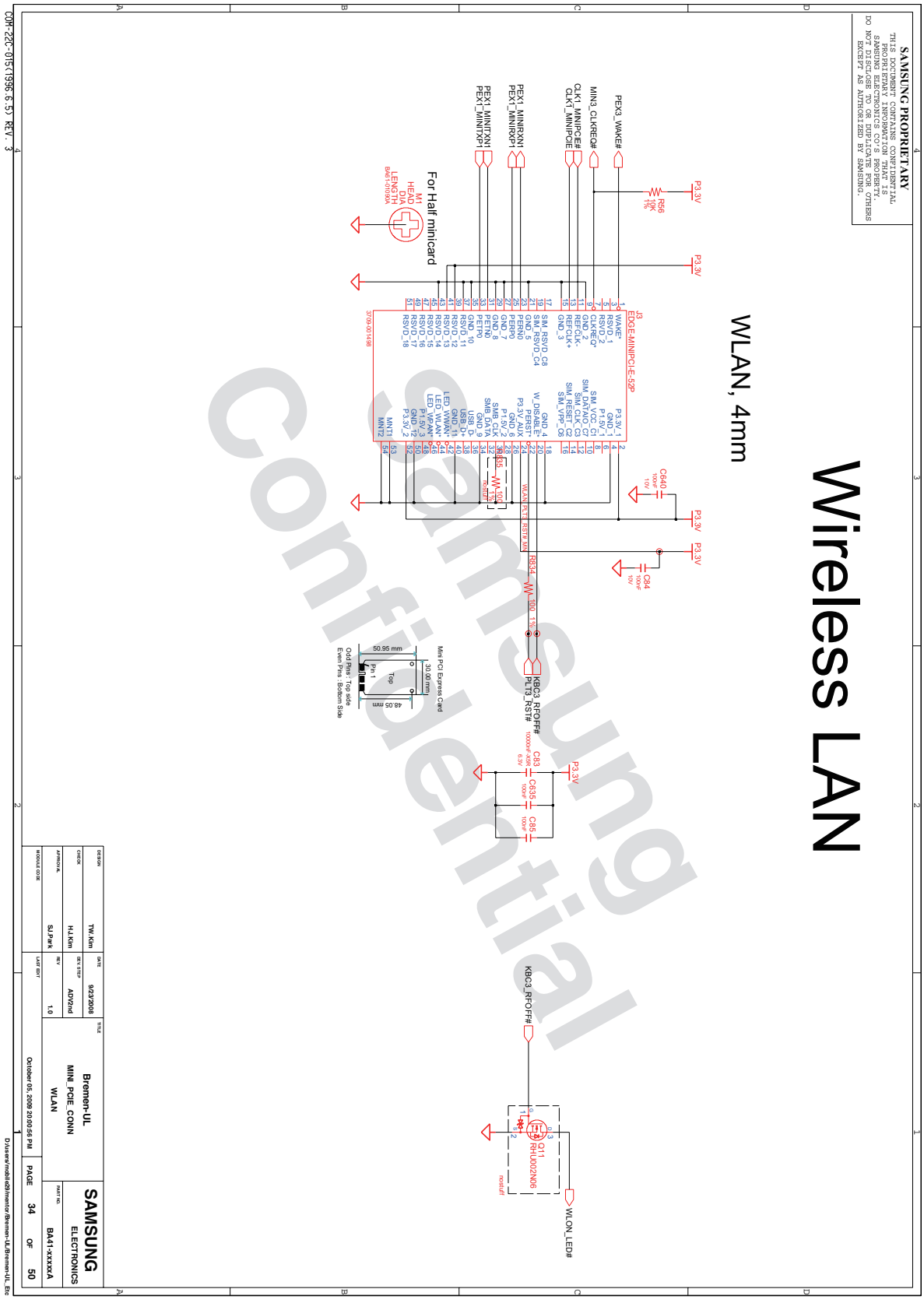
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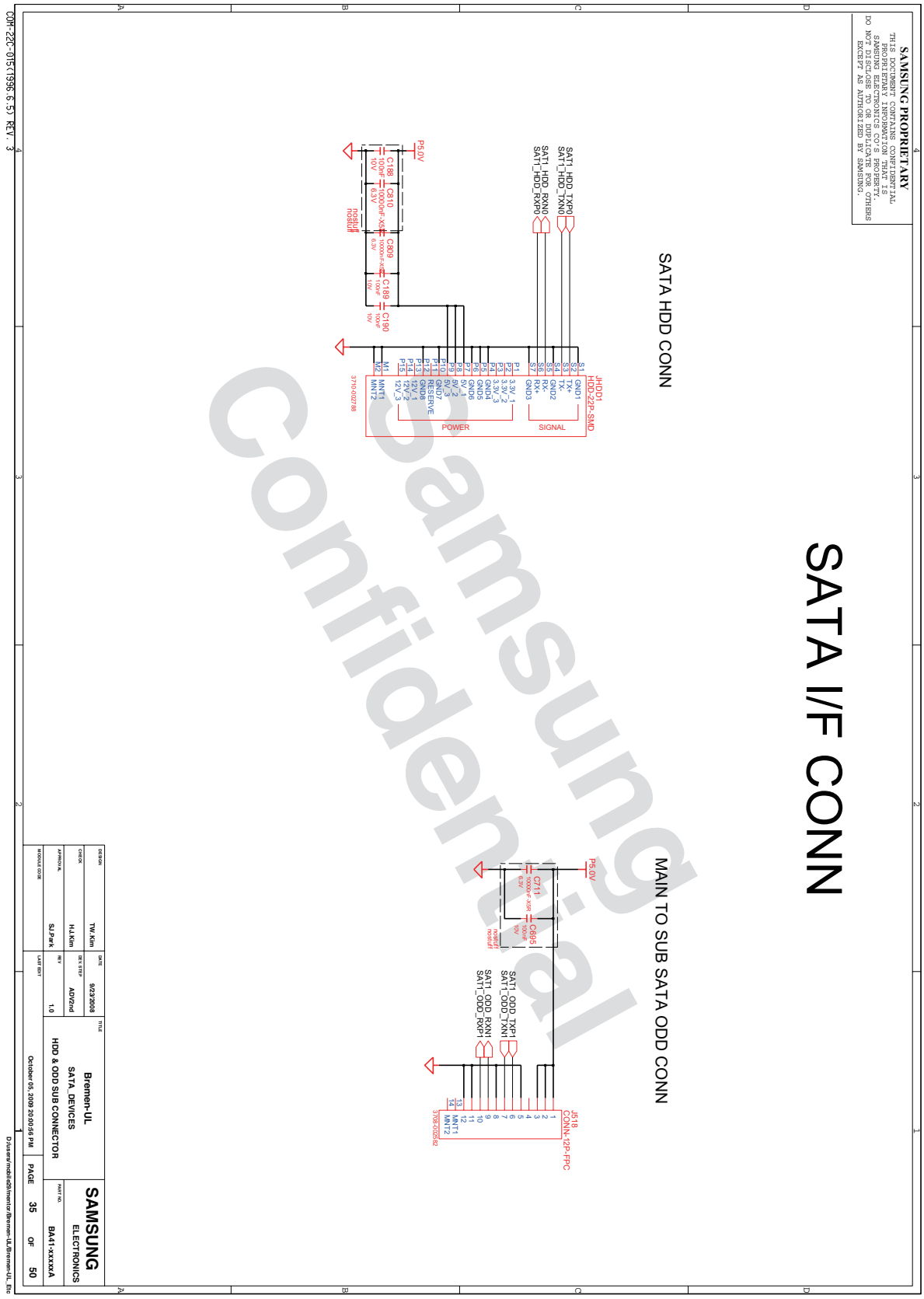
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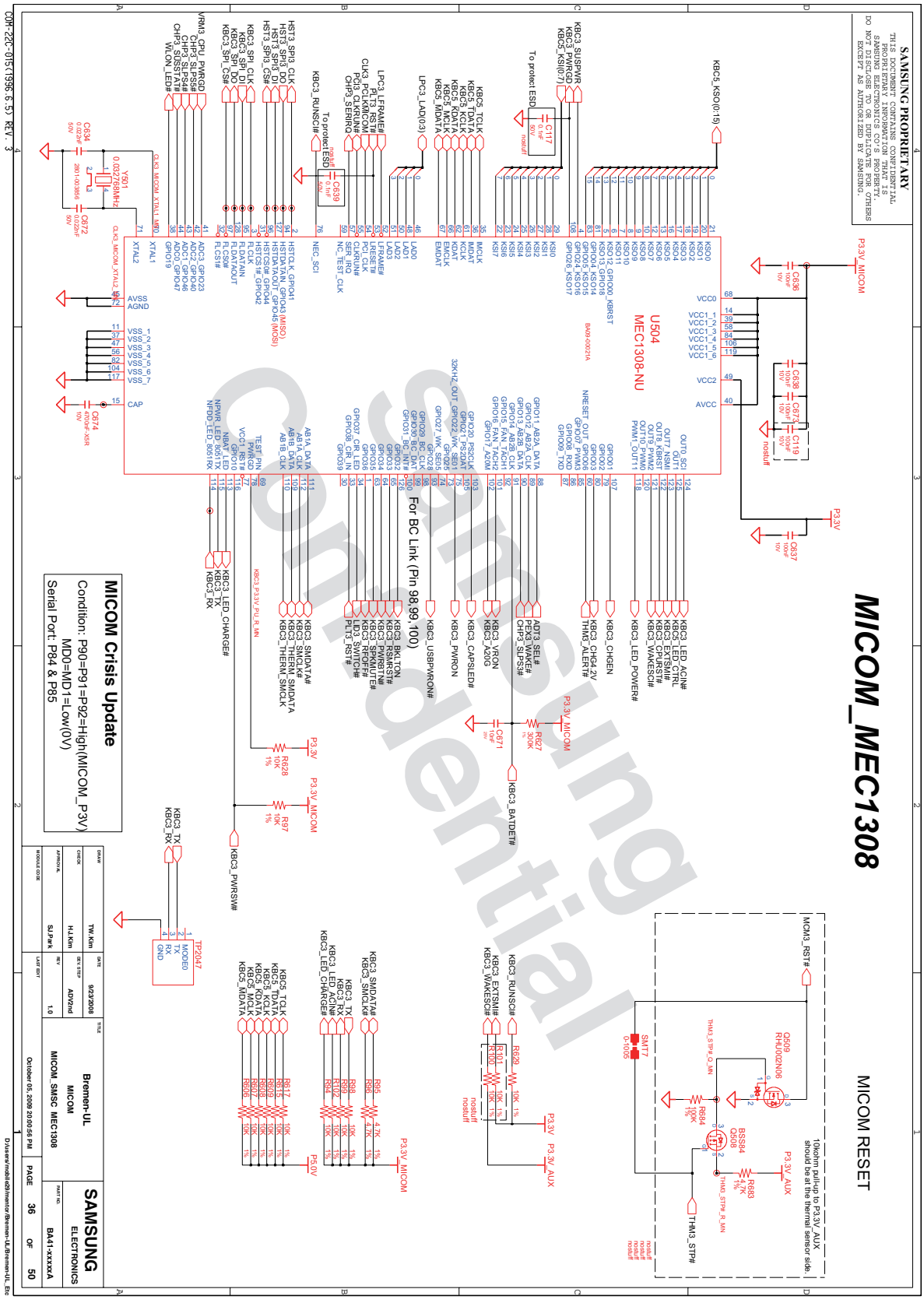
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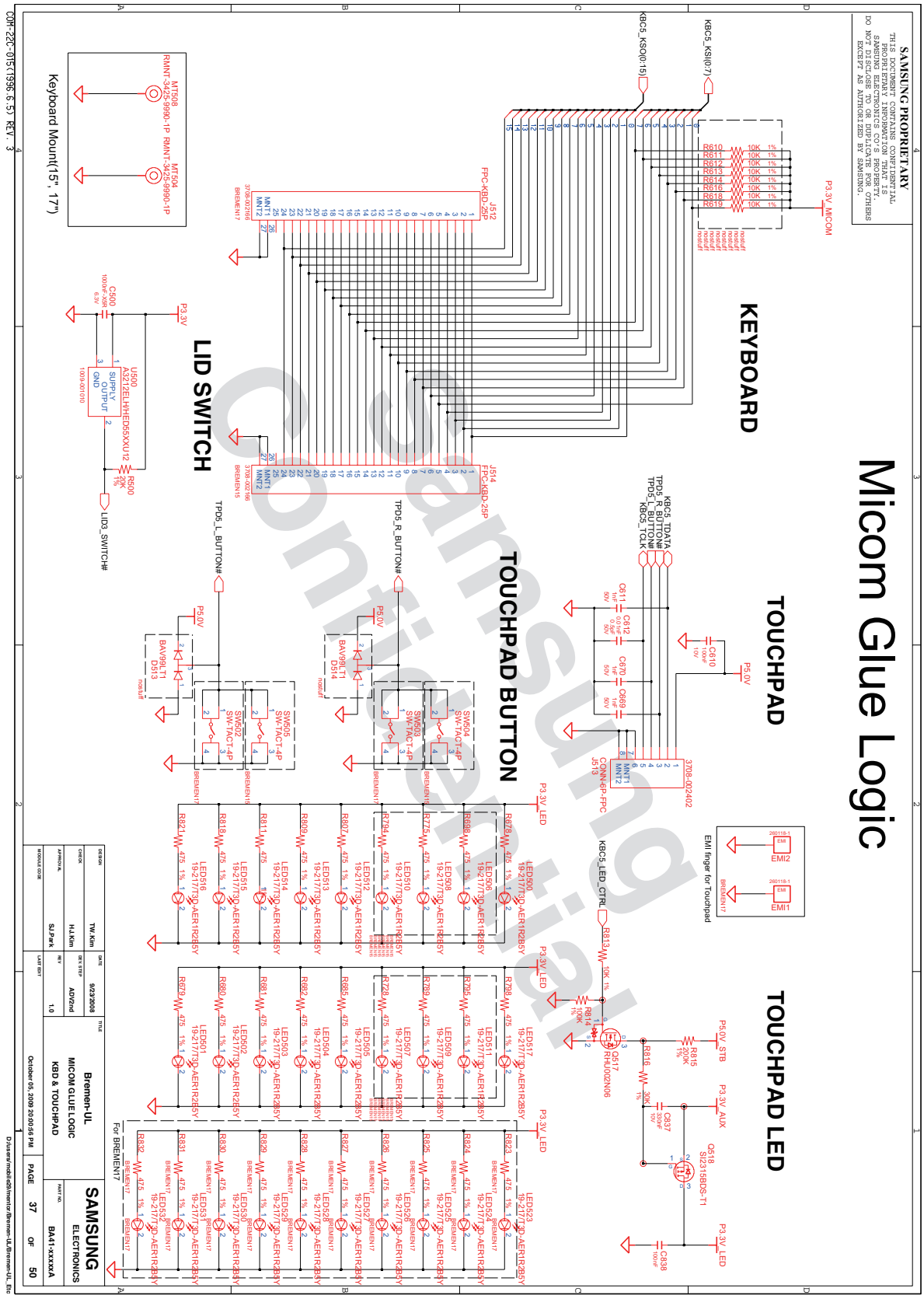
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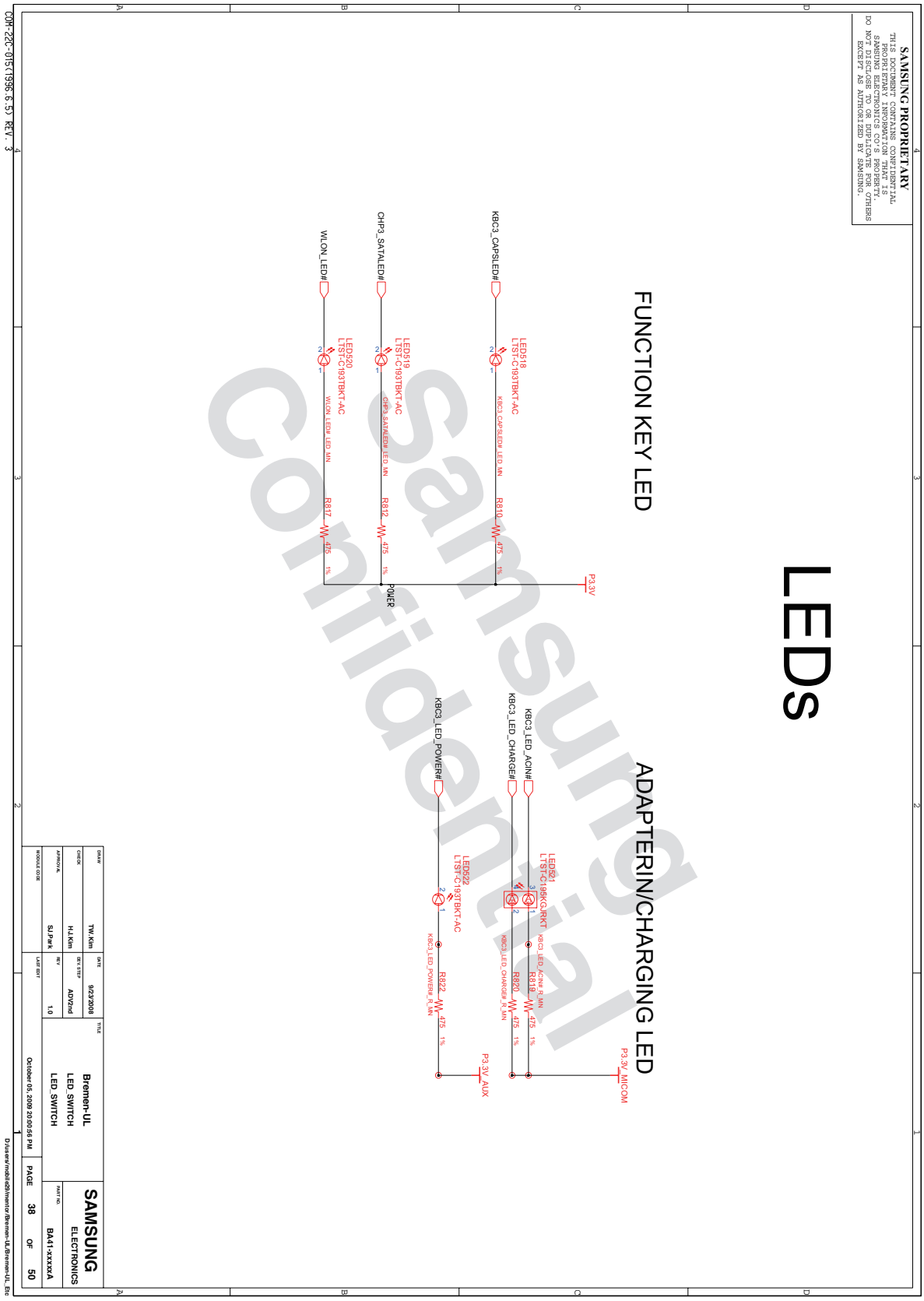
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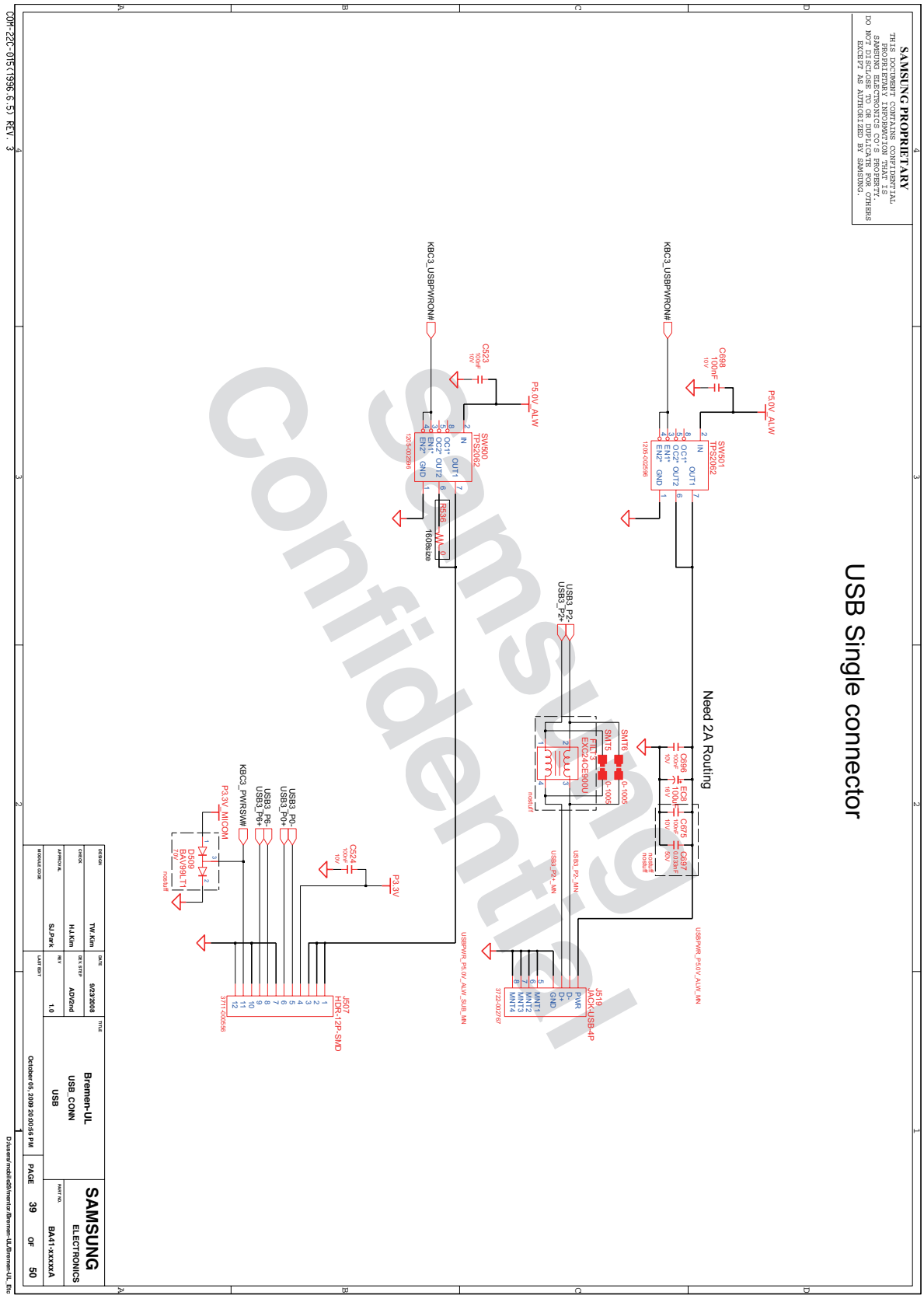
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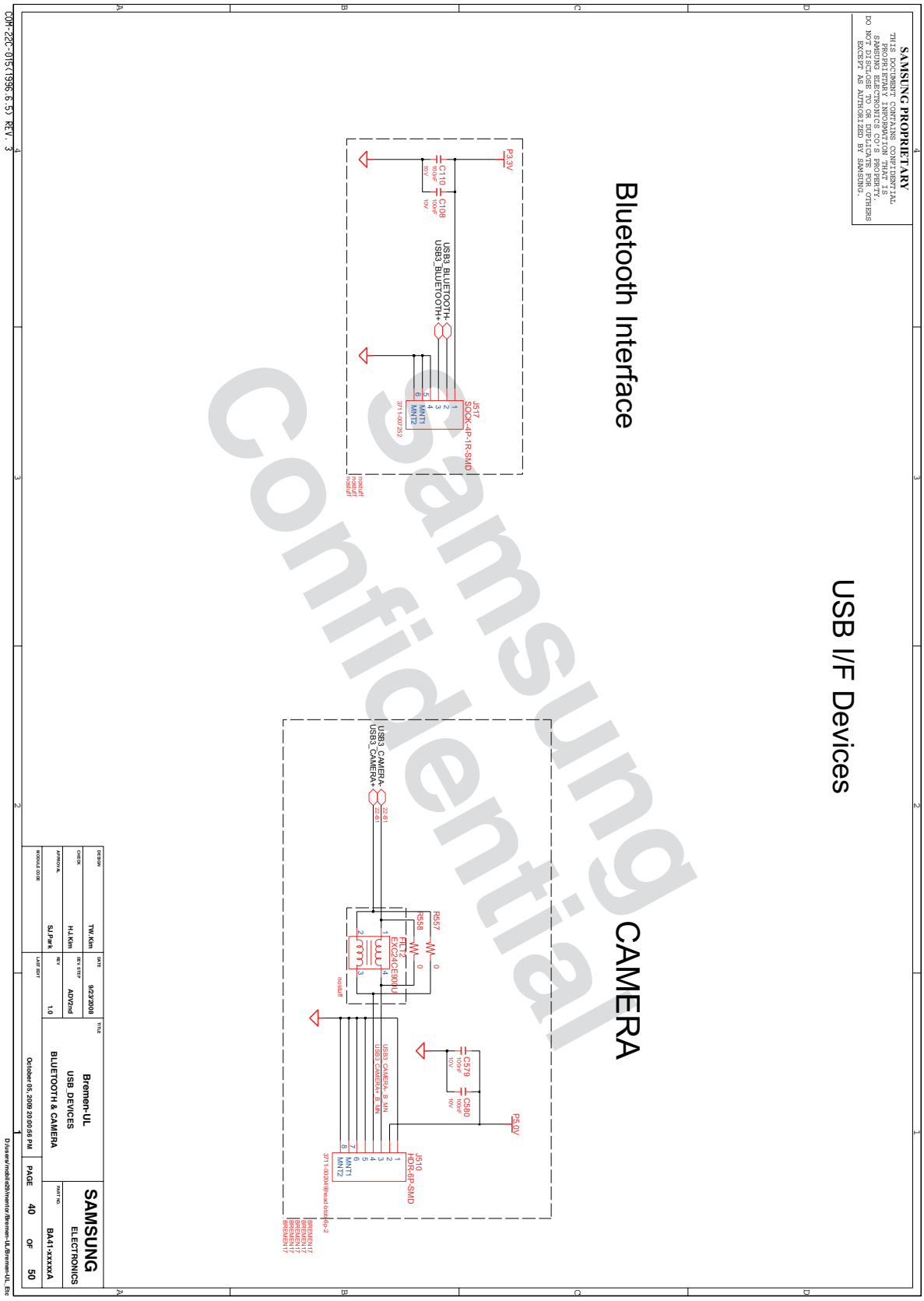
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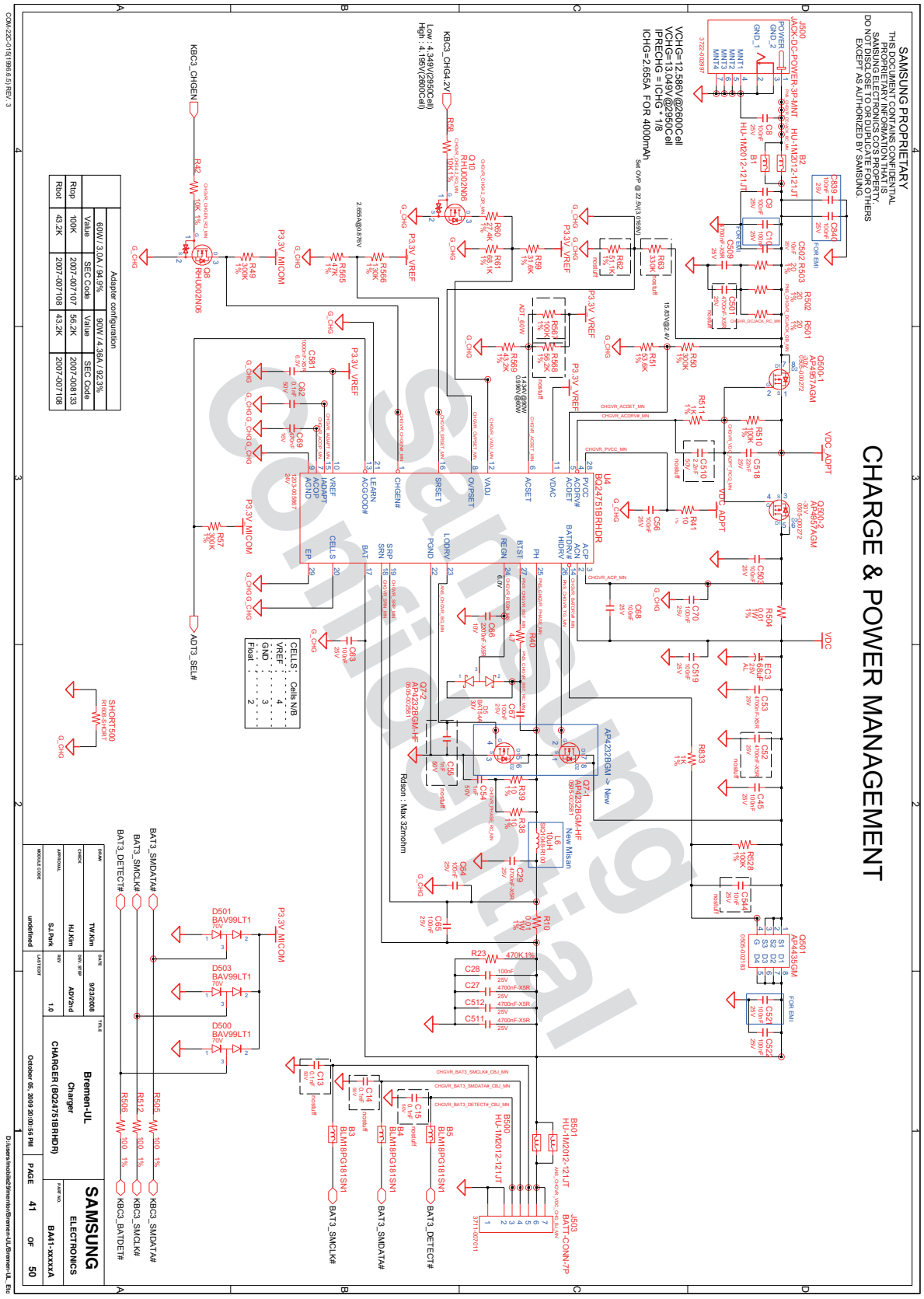
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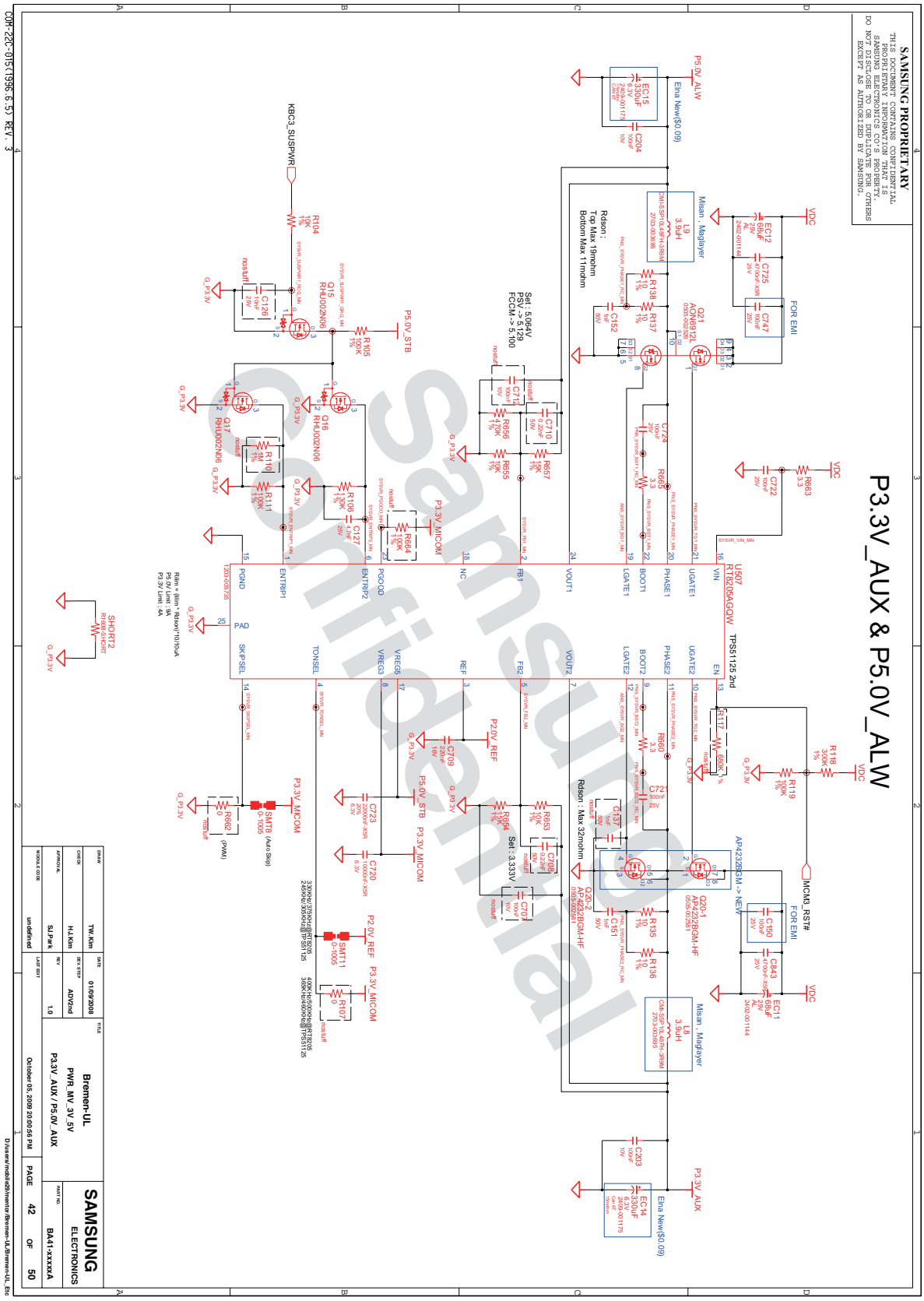


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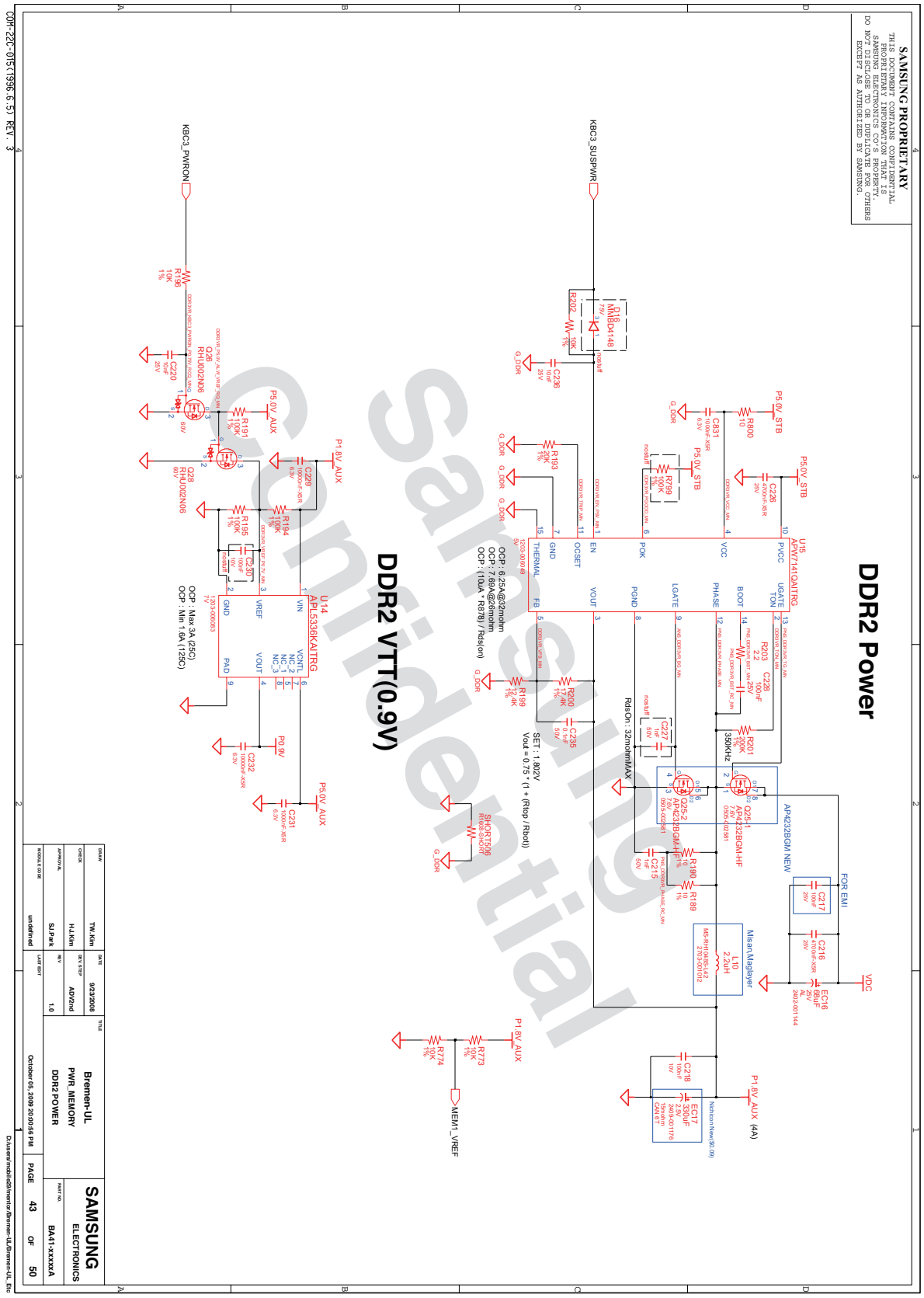
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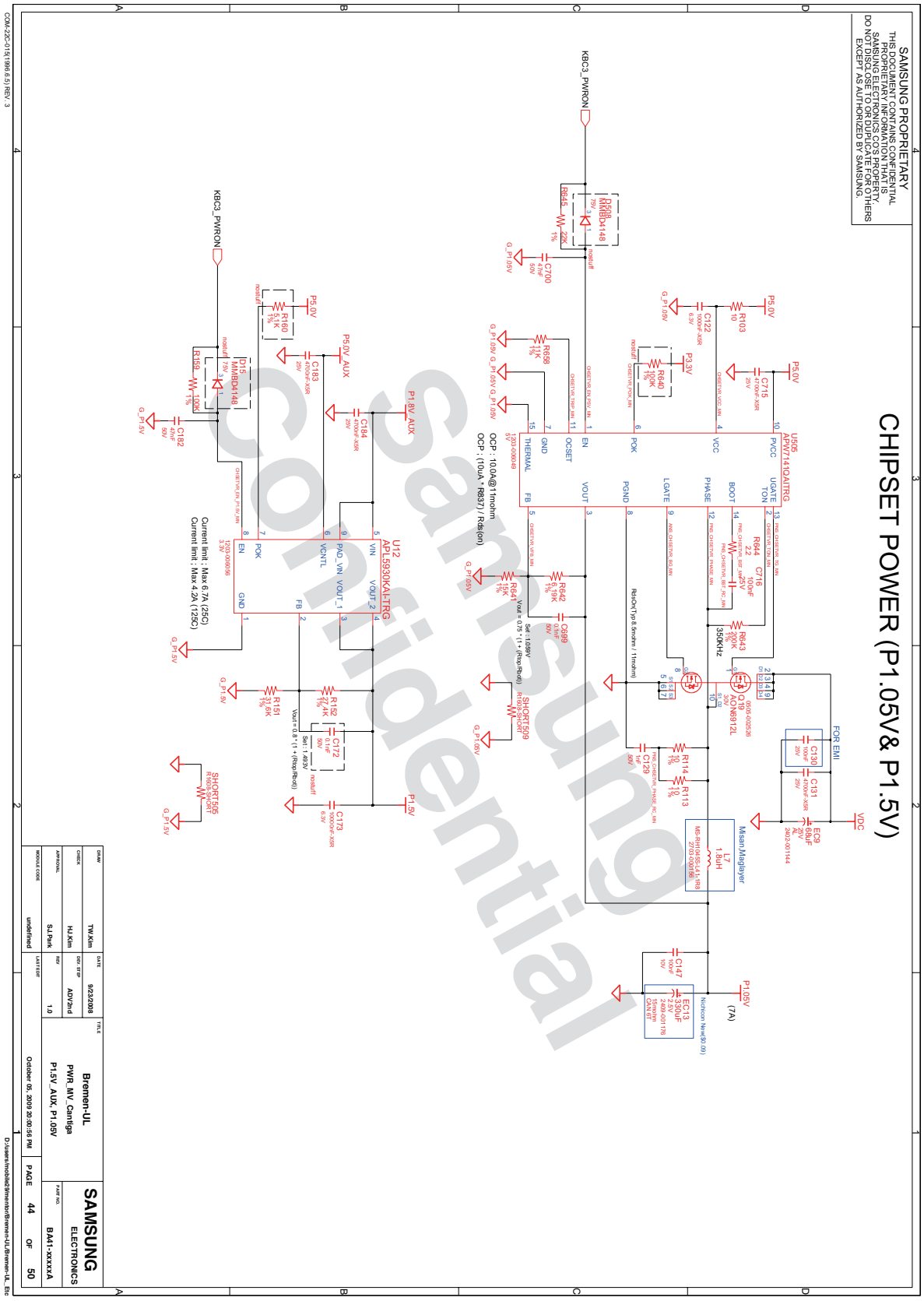
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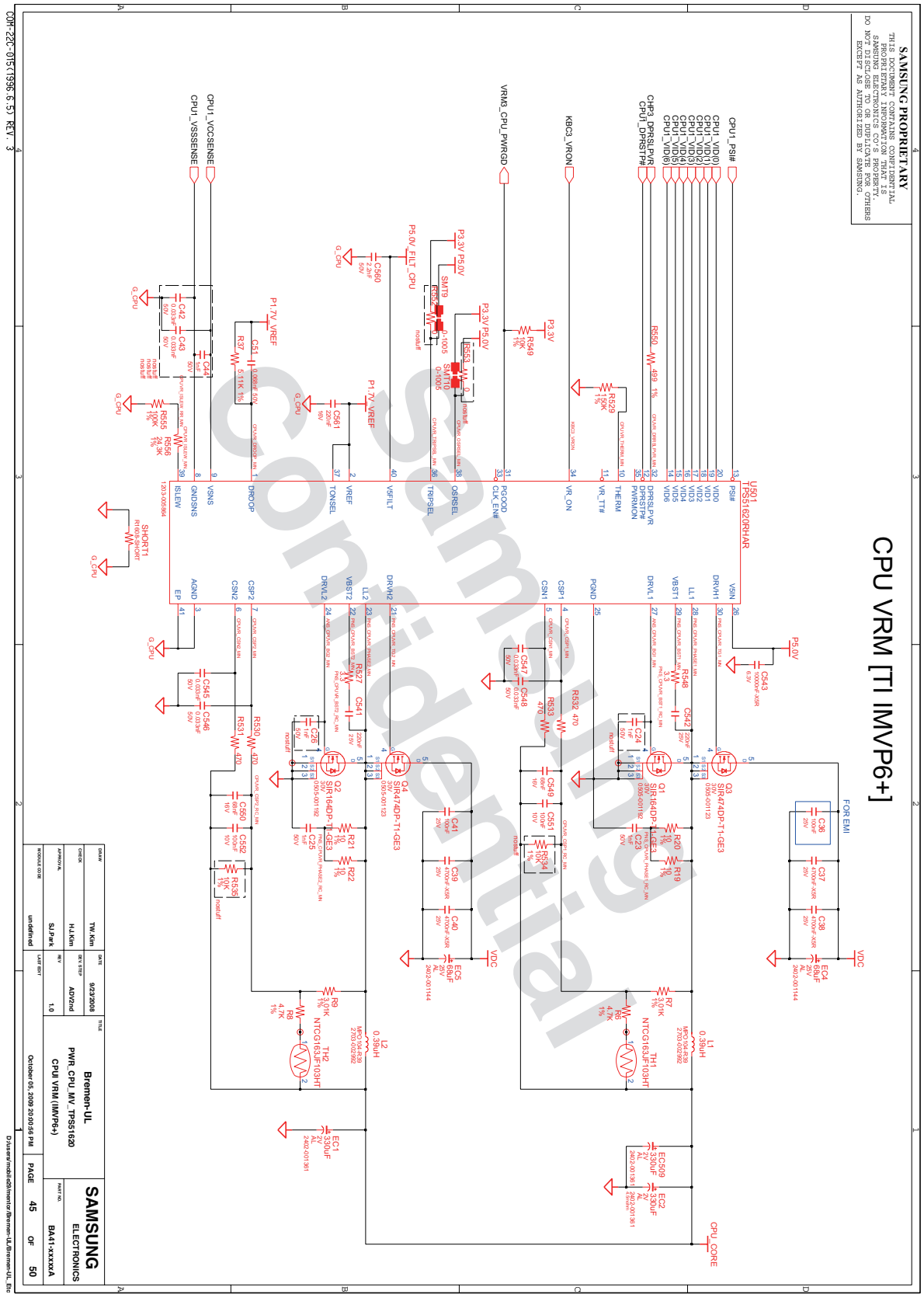


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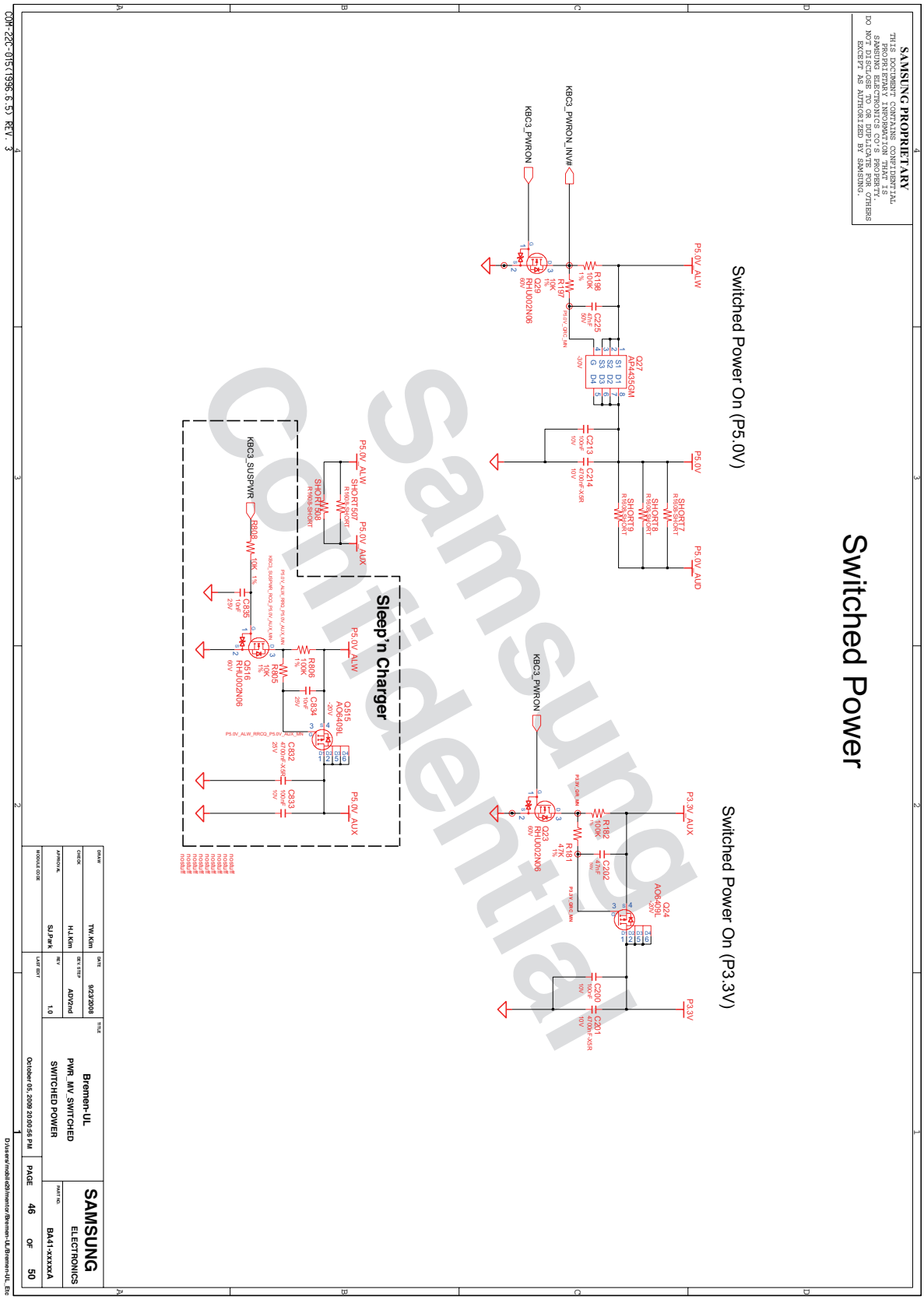
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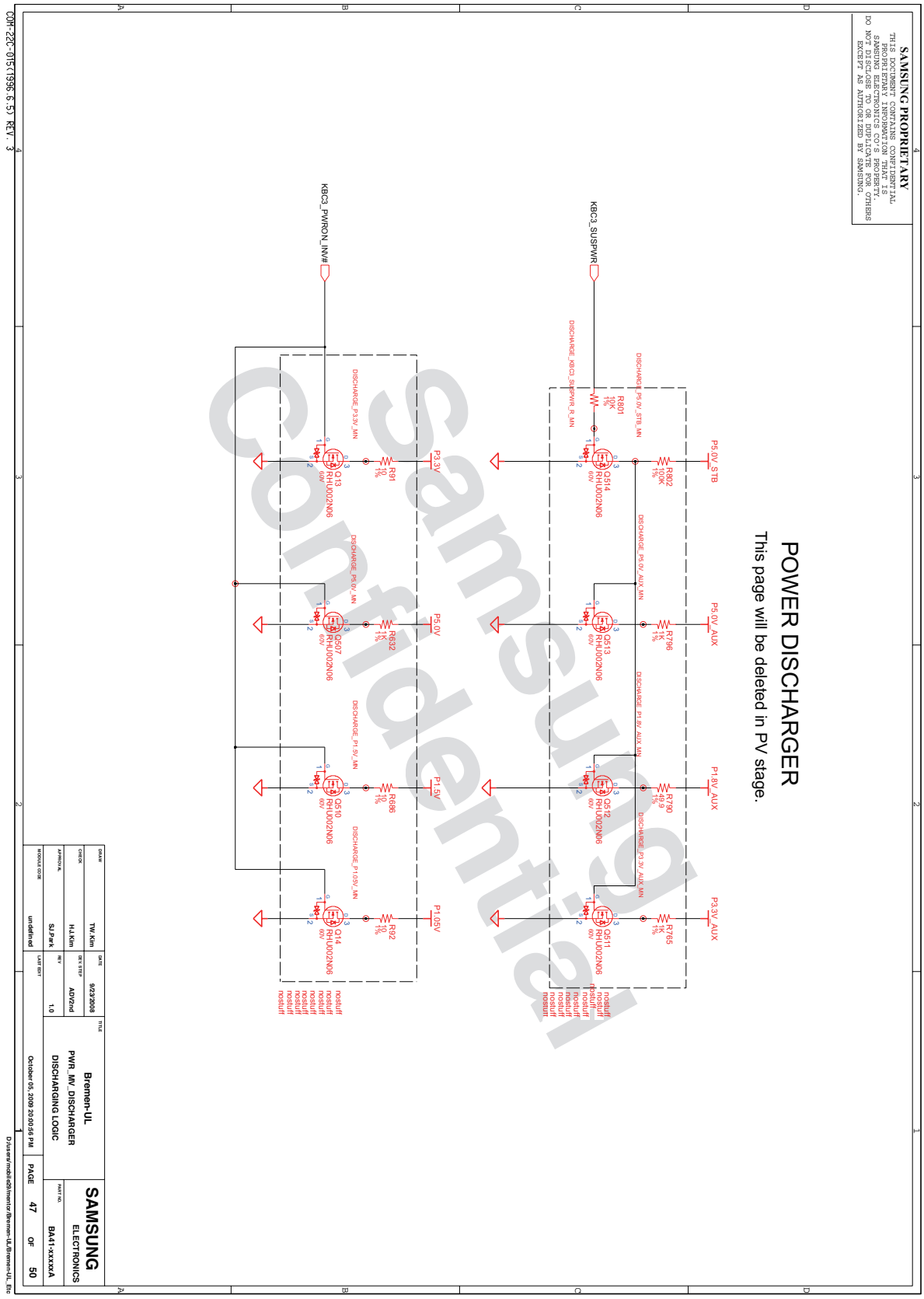
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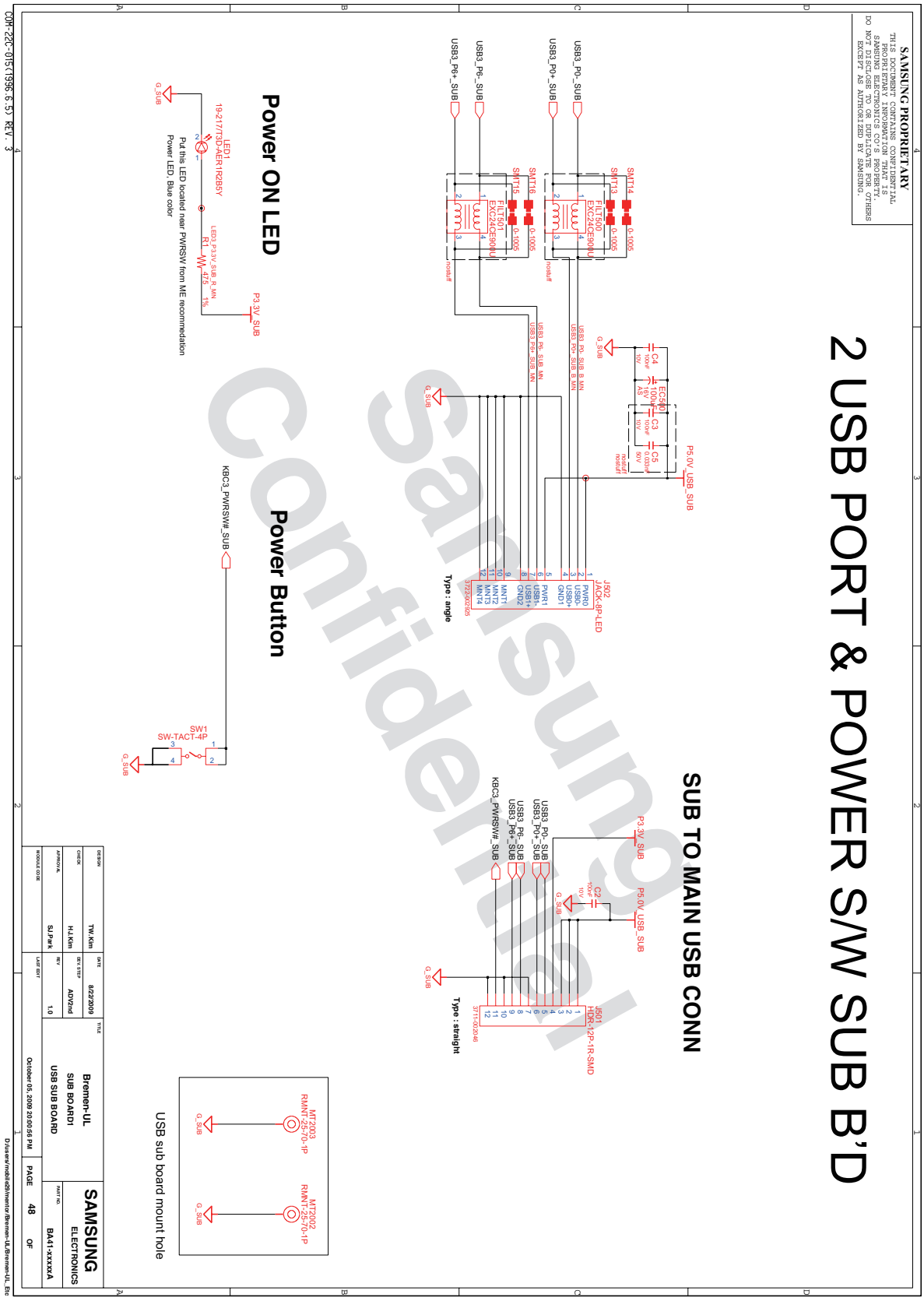


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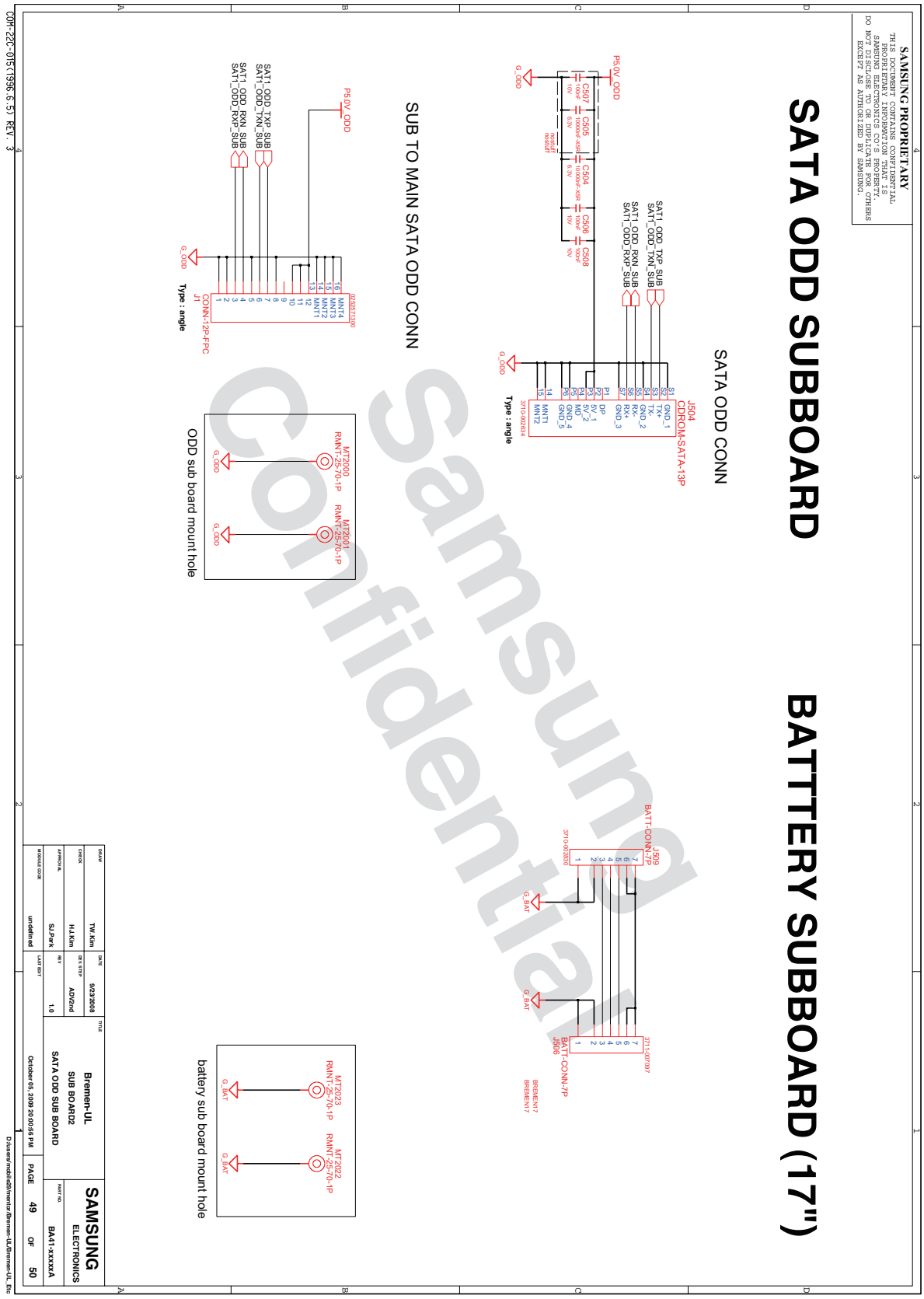
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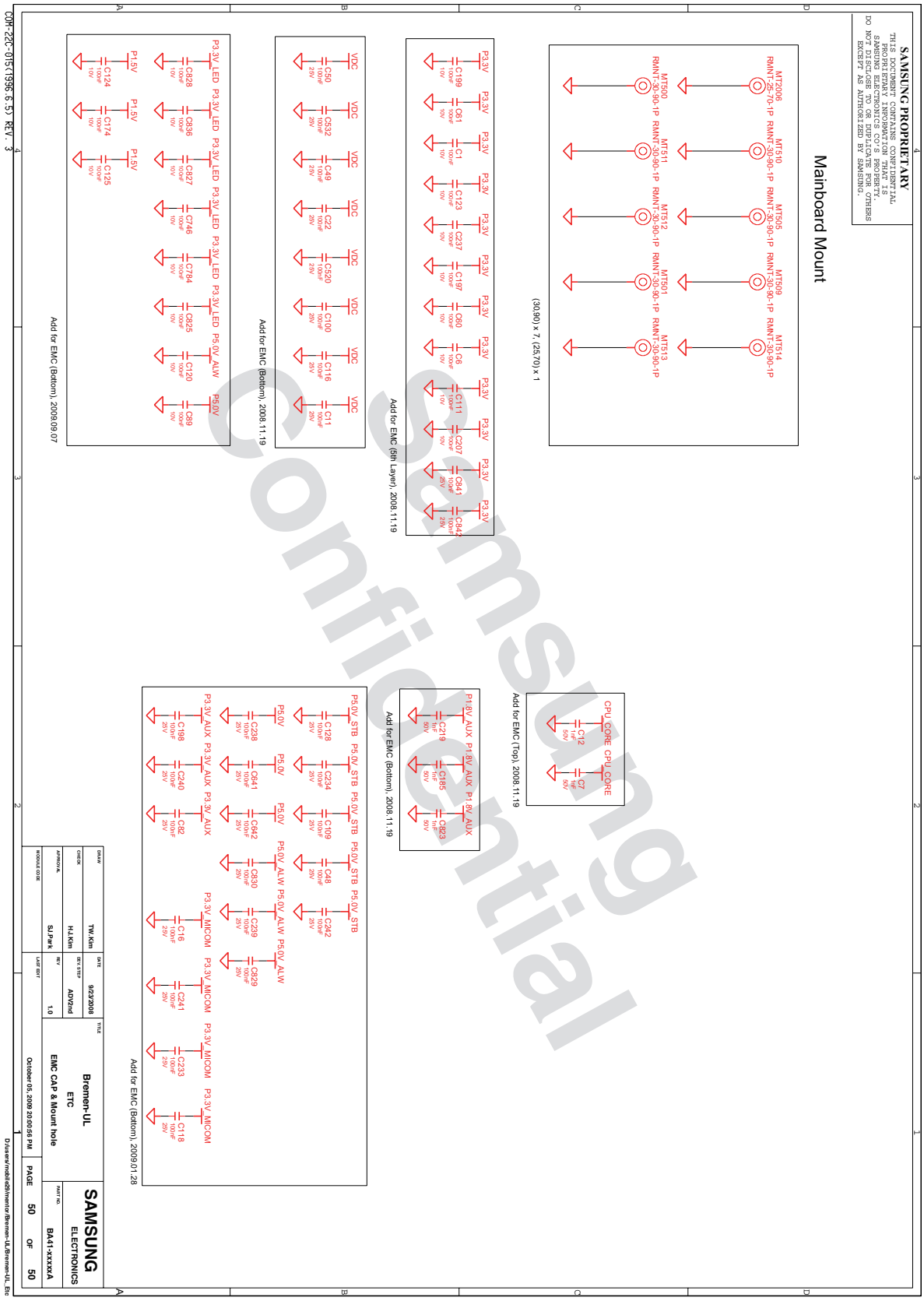
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4. Troubleshooting

4-1. General

Tools used for repairing the product

- System Diagnostics Disk
- MS-DOS Booting Disk
- System Diagnostics Card
- Screwdrivers (+, -)
- Tweezers
- Multimeter
- Oscilloscope / Logic Analyzer

Replaceable Unit (FRU: Field Replaceable Unit)

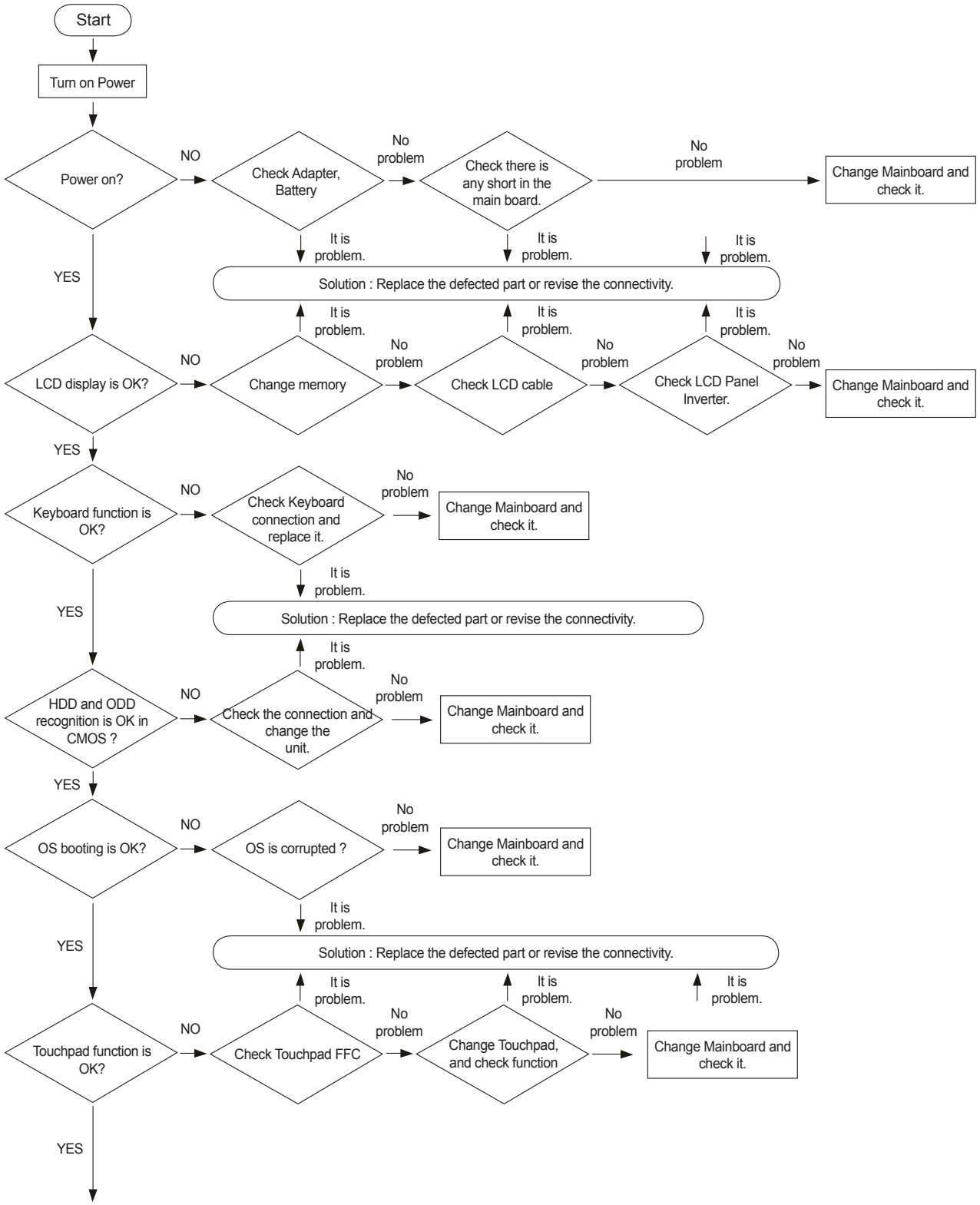
- DDR2 SODIMM Module
- 2.5"SATA HDD
- Wireless LAN Module
- System Fan
- LCD Panel
- Main Board
- Speaker

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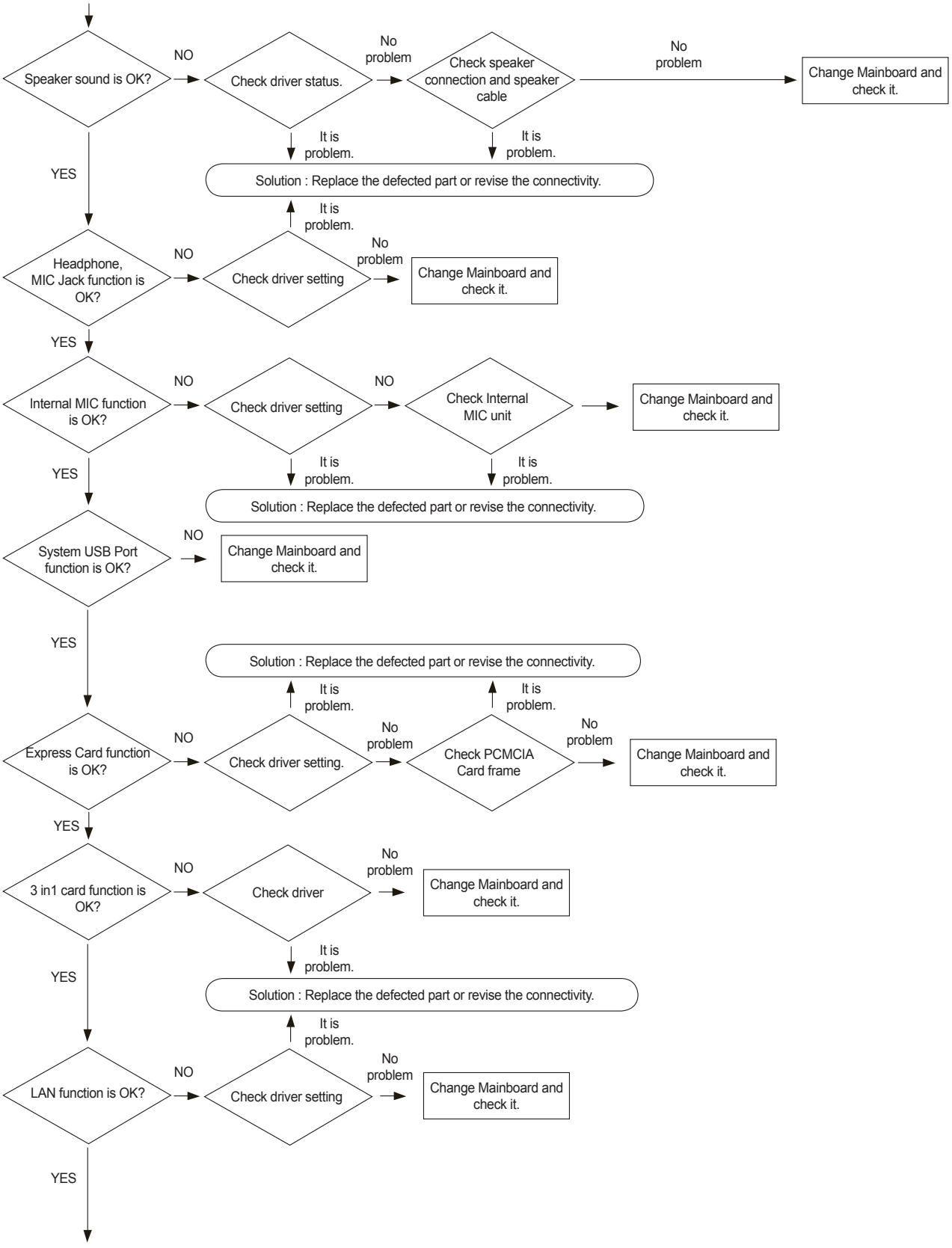
4-2. Debugging Flow Chart



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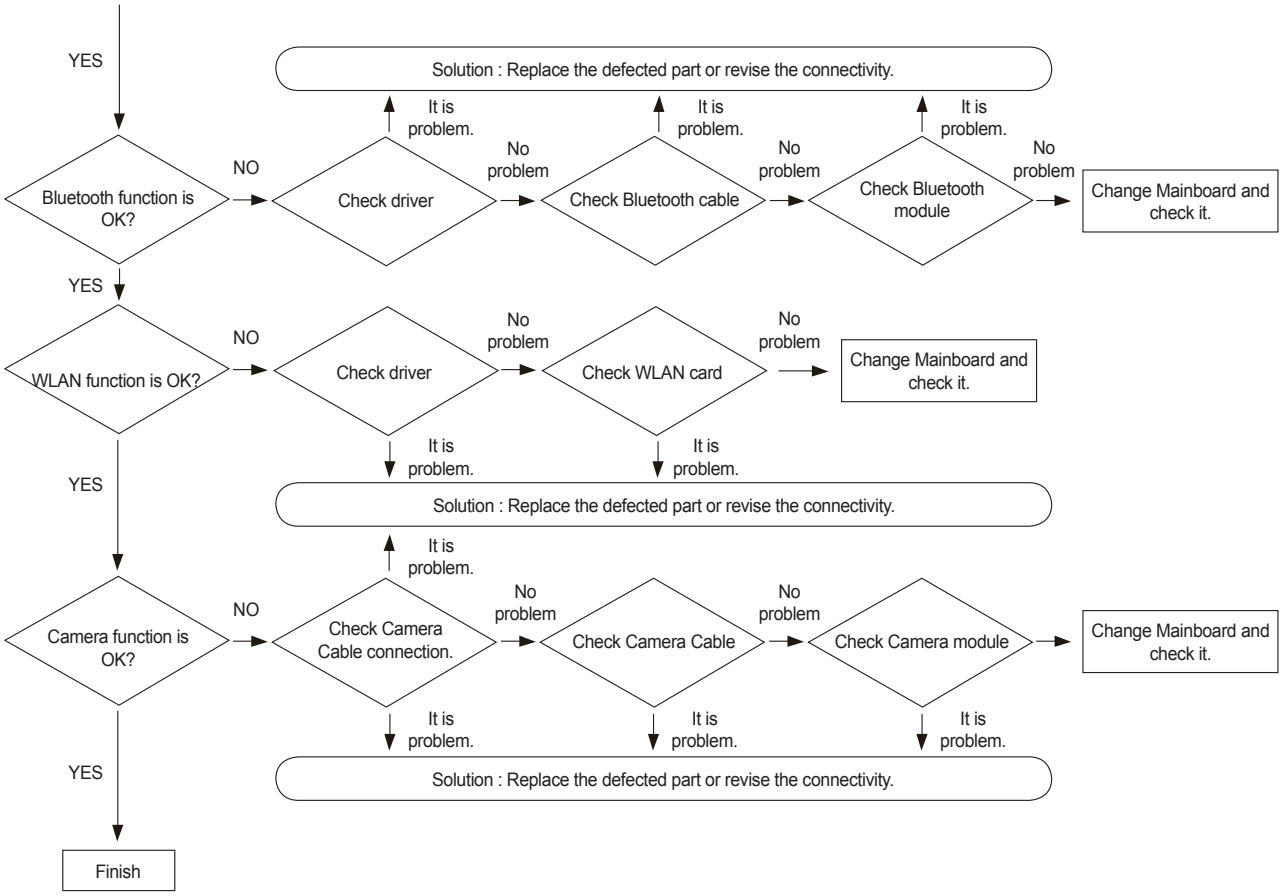
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4. Troubleshooting

4-3. System Diagnosis

System Diagnostics Card

The Diagnostics Card shows the system operations during the POST (Power On Self Test) in a 2 digit hexadecimal number by connecting the cable to the 10 pin connector below the PCMCIA slot after separating the Top part. The card is used to evaluate the reason for the malfunction without disassembling the system when the system malfunctions and to test if the system operates normally after replacing a defective FRU.

Chipset POST Codes Table

In general, when circuit problems or inferior parts are found, the system in a specific code stops. The followings are error codes in each part of the system.

TP_NUMBER	TP_LABEL	Contents
BOOTBLOCK Phase		
0BBh	Bootblock Start	GPIO init
080h	TP_BB_CS_INIT	Chipset init
081h	TP_BB_BRIDGE_INIT	Bridge init
082h	TP_BB_CPU_INIT	CPU init
089h	TP_BB_SET_HUGE	Set Huge Mode
083h	TP_BB_TIMER_INIT	System Timer init
084h	TP_BB_IO_INIT	System IO Init
085h	TP_BB_FORCE	Check force recovery boot
086h	TP_BB_CHKSUM	Check BIOS checksum
087h	TP_BB_GOTOBIOS	Go to BIOS
Main BIOS Phase		
0C1h	TP_CHKREQBOOTTYPE	Check the requested boot type which is cold or warm boot
0C2h	TP_SAVEBOOTTYPE	Save the current boot type into CMOS
002h	TP_VERIFY_REAL	Verify that CPU is in real mode from cold start
0C8h	TP_FORCE	Force check
0C9h	TP_EXT_CHECKSUM	Extended checksum. Check (and do) if the flash recovery is necessary
01Ch	TP_RESET_PIC	Initialize interrupt controllers for some shutdowns
013H	TP_PCI_BM_RESET	Reset pci devices in early post
036h	TP_CHK_SHUTDOWN	Vector to proper shutdown routine
0C4h	TP_PEM_SYSER_INIT	Initializes (clears) the system error flags
024h	TP_SET_HUGE_ES	Make huge (4GB) segments for DS,ES,FS,GS,SS
003h	TP_DISABLE_NMI	Disable NMIs
0AEh	TP_CLEAR_BOOT	Clear ConfigFailedBit and InPostBit in CMOS
006h	TP_HW_INIT	Miscellaneous hardware initialization
018h	TP_TIMER_INIT	Initialize the timers
007h	TP_CS_BIOS_DESHAD	Disable system ROM shadow and start to execute.
011h	TP_REG_INIT	General dispatcher for alternate register initialization
016h	TP_CHECKSUM	Verify ROM BIOS checksum
0CCh	TP_RESTORE_MEMCFG	Restore the memory configuration
028h	TP_SIZE_RAM	Autosize the memory during a warm start
02Ah	TP_ZERO_BASE	Zero the RAM upto the minimum RAM specified in the chipset RAM table
02Ch	TP_ADDR_TEST	Test address lines of the RAM

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4. Troubleshooting

TP_NUMBER	TP_LABEL	Contents
02Eh	TP_BASERAML	Test the first 4MB of RAM.
03Ah	TP_CACHE_AUTO	Autosize external cashe and program cashe size for enabling later in POST
0D5h	TP_SWITCH_POST_TABLES	Switch To The Part Of The POST Table In compatSegment To Save BCG
020h	TP_REFRESH	Verify DRAM refresh
029h	TP_PMM_INIT	Initializes the POST Memory Manager.
033h	TP_PDM_INIT	Initializes the Phoenix Dispatch Manager
0C1h	TP_PEM_INIT	Invoked via shutdown table to Iniialize PEM data structures
009h	TP_SET_IN_POST	Set In-POST bit in CMOS
00Fh	TP_FDISK_INIT	Disable IDE operation
014h	TP_8742_INIT	Initialize and Configure the Keyboard Controller.
01Ah	TP_DMA_INIT	Test the DMA registers
01Ch	TP_RESET_PIC	Initialize interrupt controllers
014h	TP_8742_TEST	Report if there was a Keyboard Controller failure.
0C8h	TP_A20_TEST	Perform A20 Test
032h	TP_COMPUTE_SPEED	Compute CPU clock speed in MHz
069h	TP_PM_SETUP_SMM	Perform miscellaneous OEM Initialization here before SMM Init, PCI Init, and VBIOS Init.
03Dh	TP_ADV_REG_CONFIG	General dispatcher for alternate register advanced configuration
042h	TP_VECTOR_INIT	Initialize interrupt vectors
046h	TP_COPYRIGHT	Verify that the copyright message is intact Uses 8-bit end-around-carry addition
045h	TP_DEVICE_INIT	POST device initialization routine
049h	TP_PCI_INIT	Perform miscellaneous OEM Initialization here, before PCI Init and Before SMM Init.
048h	TP_CONFIG	Verify the hardware configuration and note whether we have color or monochrome video.
0D1h	TP_BIOS_STACK_INIT	Bridge to postInitBIOSStack(oemInitBIOSStack)
0D3h	TP_SETUP_WAD	Find Space For Memory Wad And Zero It
024h	TP_SET_HUGE_ES	Make huge (4GB) segments for DS,ES,FS,GS,SS
08Ah	TP_INIT_EXT_BDA	Initialize extended BIOS data area
09Dh	TP_SECURITY_INIT	Initialize the system security engine
055h	TP_USB_INIT	Enable USB devices
014h	TP_8742_TEST	Initialize the Keyboard Controller for Keyboard Test.
052h	TP_KB_TEST	Initialize and Configure the Keyboard & PS/2 Mouse.
052h	TP_KB_TEST	Initialize and Configure the Keyboard & PS/2 Mouse.
052h	TP_KB_TEST	Initialize and Configure the Keyboard & PS/2 Mouse.
076h	TP_KEYBOARD	Report if there was a Keyboard or Controller failures.
04Ah	TP_VIDEO	The Video POST and PDS init
04Ch	TP_VID_SHADOW	Initialize video
059h	TP_PDS_INIT	Initialize the POST display service.
057h	TP_1394_INIT	Initialize the 1394 code
058h	TP_HOT_INT	test for hot interrupts
0C4h	TP_HOTKEY_START	Install the IRQ1 vector
07Ch	TP_HW_INTS	initialize hardware interrupt vectors
0B5h	TP_QUIETBOOT_START	Initializes QuietBoot.
04Eh	TP_CR_DISPLAY	Display the copyright message

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TP_NUMBER	TP_LABEL	Contents
0D4h	TP_CPU_GET_STRING	Get CPU brand string
050h	TP_CPU_DISPLAY	Display CPU type and speed
05Ah	TP_DISPLAY_F2	Display "Press F2 for Setup" prompt - enable the keyboard interrupt
05Ch	TP_MEMORY_TEST	Size conventional memory, store the amount, print this to the screen.
060h	TP_EXT_MEMORY	Perform memory tests on extended RAM.
062h	TP_EXT_ADDR	Perform address tests on extended RAM
06Ah	TP_DISP_CACHE	Display cache RAM size if desired.
06Ch	TP_DISP_SHADOWS	Display BIOS shadow status
0CFh	TP_ERROR_MSGS	Display any errors found
072h	TP_TEST_CONFIG	Check for bad configuration
04Fh	TP_MULTBOOT_INIT	Allocates storage for the old and new history tables.
07Ch	TP_HW_INTS	initialize hardware interrupt vectors
096h	TP_CLEAR_HUGE_ES	Perform a shutdown eight to transition from the warm start table to the cold start table.
088h	TP_BIOS_INIT	Initialize timeouts, key buffer, soft reset flag Initialize also shadow ram data for memory size;
081h	TP_LATE_DEVICE_INIT	POST device initialization routine
087h	TP_MCD_INIT	Each MCD device in the dedicated segment, calls the configure routine.;
083h	TP_FDISK_CFG_IDE_CTRLR	Configure non-MCD IDE controllers.
089h	TP_ENABLE_NMI	Enable NMIs
090h	TP_FDISK	Test hard disksIf the CMOS ram is valid and intact, and fixed disks are defined then call the fixed disk init routine to intialize the fixed disk system and take over the appropriate interrupt vectors.
08Bh	TP_MOUSE	Setup PS/2 Mouse Interrupt & initialize Extended BDA
095h	TP_CD	Multiboot CD-ROM initialization
096h	TP_CLEAR_HUGE_ES	Exit big real mode
0AEh	TP_CLEAR_BOOT	Clear ConfigFailedBit and InPostBit in CMOS
091h	TP_FDISK_FAST_INIT	Program timing registers according to PIO modes
0C7h	TP_DOCK_INIT_LATE	SIO Initialization
09Eh	TP_IRQS	Enable the proper hardware interrupts
0A0h	TP_TIME_OF_DAY	Set time of day
0A2h	TP_KEYLOCK_TEST	Test if KeyLock or Keyboard Controller Password is on.
0C2h	TP_PEM_LOG	Invokes the error logging function of all registered error handlers
0BAh	TP_DMI	Execute DMI Handlers
0C3h	TP_PEM_DISPLAY	Invoked via the shuctdown table at the end of postScans the pemRegTbl and calls the display function for each registered
0A8h	TP_ERASE_F2	Remove "Press F2" prompt from the screen
0AAh	TP_SCAN_FOR_F2	Check if User has requested SETUP.
0ACh	TP_SETUP_CHECK	Check to see if SETUP should be executed
0D7h	TP_FIRSTWARE_CHECK	FirstSpace Check
0AEh	TP_CLEAR_BOOT	Clear ConfigFailedBit and InPostBit in CMOS
0B0h	TP_ERROR_CHECK	Check for POST errors
0B2h	TP_POST_DONE	Set/clear status bits to reflect POST complete
0C5h	TP_HOTKEY_END	Mark the fact that we are no longer in POST
0BEh	TP_CLEAR_SCREEN	Cear the screen
0B6h	TP_PASSWORD	Query for password before boot
0D7h	TP_FIRSTWARE_CHECK	FirstSpace Check

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4. Troubleshooting

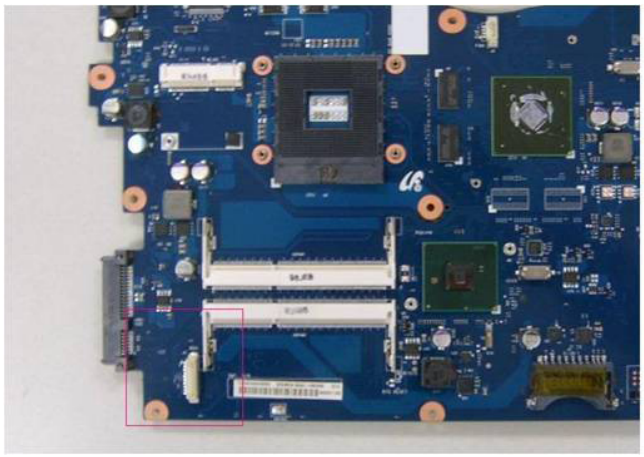
TP_NUMBER	TP_LABEL	Contents
0BCh	TP_PARITY	Clear the parity error latch, set correct NMI state
0B7h	TP_ACPI	Post entry point to setup acpi table in Shadow RAM and in extended memory
0BDh	TP_BOOT_MENU	Displays Boot First menu.
0BFh	TP_CHK_RMDR	Check the reminder features
091h	TP_FDISK_FAST_INIT	Program timing registers according to PIO modes
099h	TP_FDISK_CHECK_SMART	Post task to check SMART status.
0B3h	TP_ENH_CMOS_STORE	Post task to store enhanced CMOS values in non-volatile area
0B9h	TP_PREPARE_BOOT	Clean up all graphics before booting
0C0h	TP_INT19	Cleans up the system and boots via INT 19h.

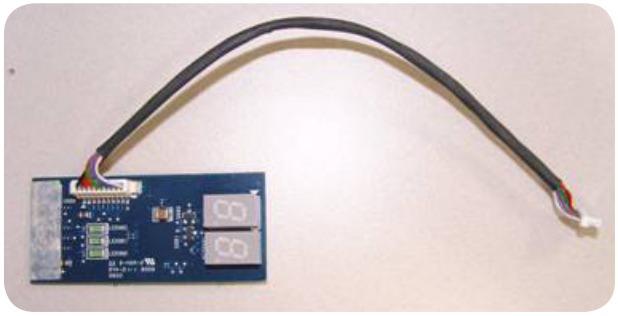
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4. Troubleshooting

System Diagnostics Card





▪ The debug card cable shall be connected with the Main board as shown in the picture.

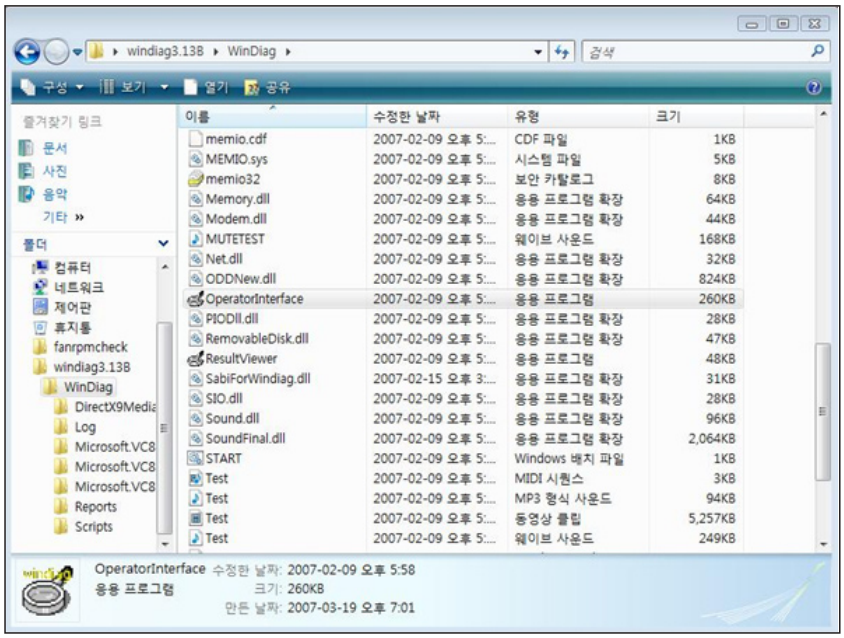
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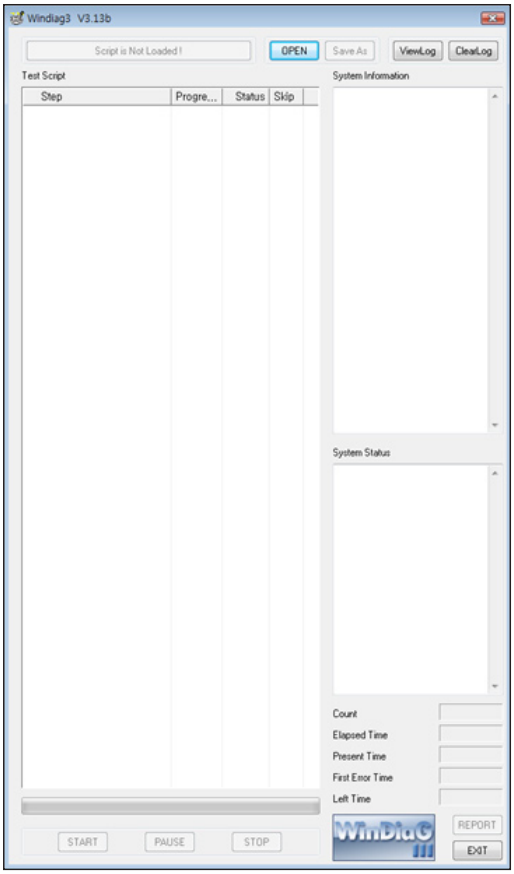
4. Troubleshooting

4-4. Diagnosis application

1. After copying Windiag3 in any folder, execute OperatorInterface.exe.



2. If OperatorInterface.exe runs properly, this window will be shown.

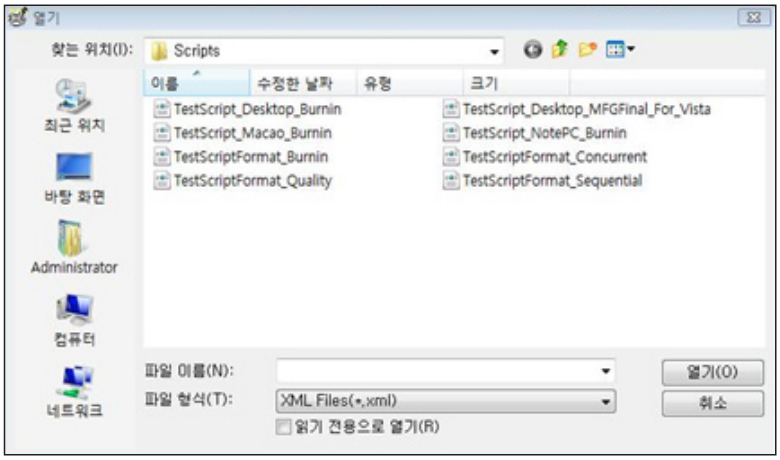


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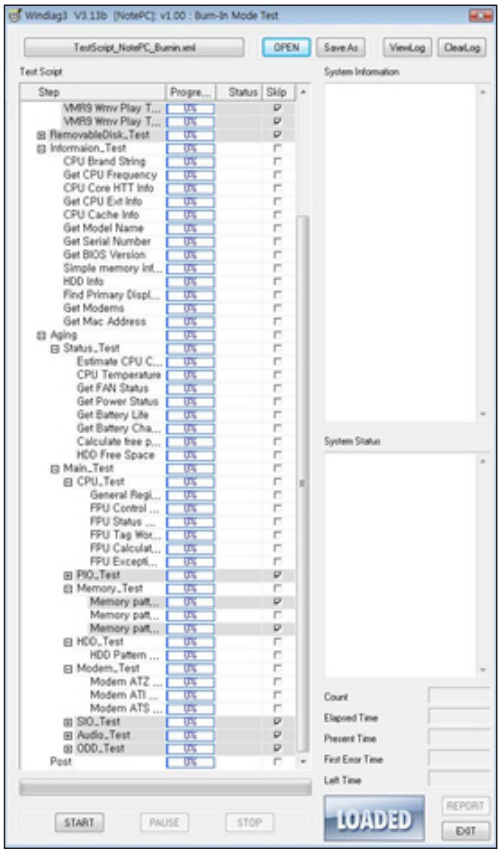
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4. Troubleshooting

3. Click “Open” to open Script file.
In case of Note PC, click TestScrip_NotePC_Bumin.xml.
In case of Desktop, click TestScript_Desktop_Burnin.xml
When you would like to execute each item for only once : Select the testScriptFormat_Concurrent.xml.



4. After that, OperatorInterface shows the following scripts on the left of the display.

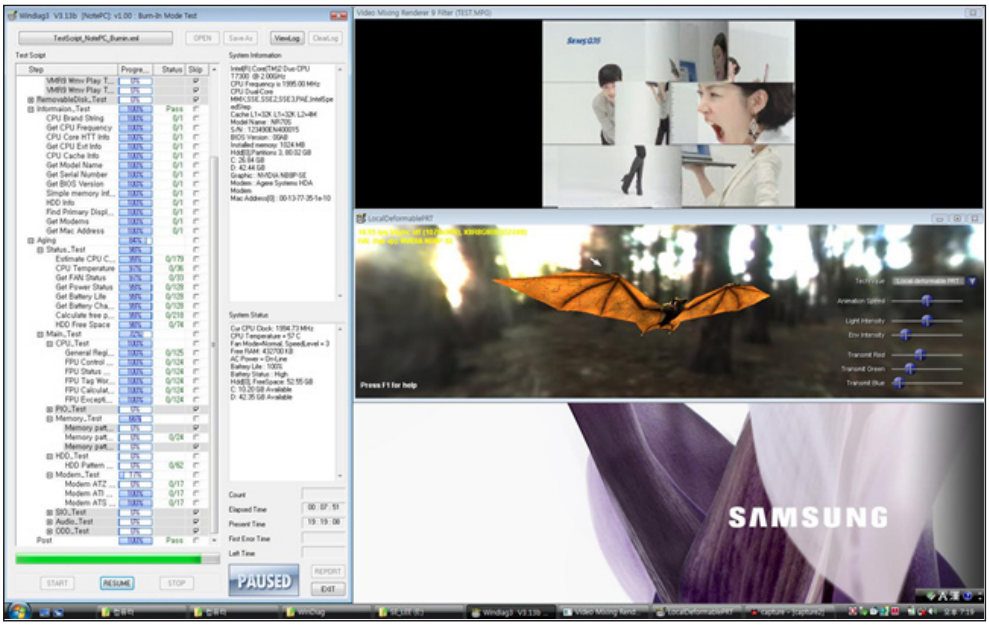


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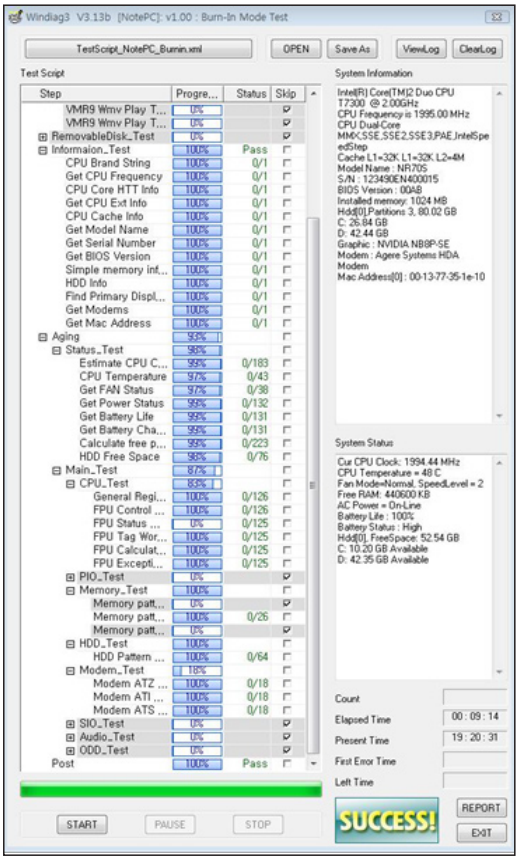
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4. Troubleshooting

5. Click "Start" button, then test begins.



6. If you want to stop this, click "stop" button. If all modules don't stop in 2 minutes 30 seconds, message window will ask you about a forced stop. At that time, by selecting "yes", it can be ended by force.



7. Click "EXIT", then it will be closed.

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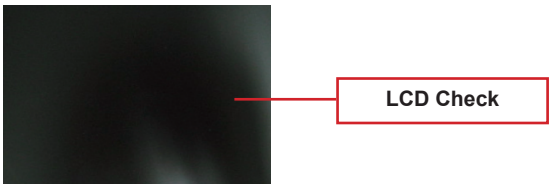
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4. Troubleshooting

4-5. H/W Troubleshooting

Please refer to the chapter 4 to assemble and disassemble.

LCD Related Troubles

1. The screen is dark or the colors of the screen are distorted.	
1. Check the connection status - LCD Module LCD Cable - LCD Cable and Main board LCD Connector - LCD Cable ➔ Re-fixation Cable and Connector	
2. Replace the LCD cable	Defectiveness confirmation
3. Check if there is a part of the LCD that is bent or broken due to impact ➔ Replace the LCD	
2. No picture appears on the screen.	
1. Check the connection status. - Check the connection of LCD cable of the LCD Module, the Main board and the LCD connector. - Checking the LCD cable connection ➔ Re-fixation Cable and Connector	
2. Check if the System LED of the main board is blinking.	
3. Check if the memory module is out of order.	
4. Check if the Power button can be normally pressed.	Check operating or not
3. The LCD blinks while the system is in operation.	
1. Check if there is a magnetic body near the touch pad button or the system or check if there is an exterior defect to the LCD.	

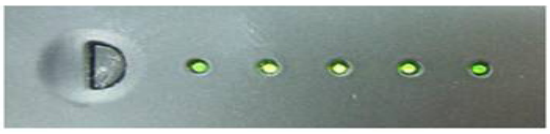
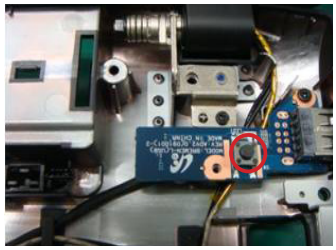
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4. Troubleshooting

2. LCD cable.	Replace the new one.

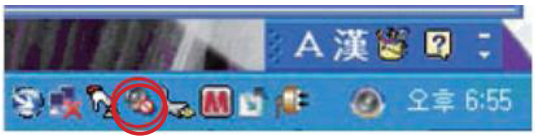
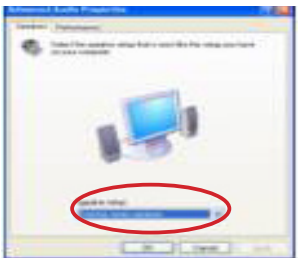
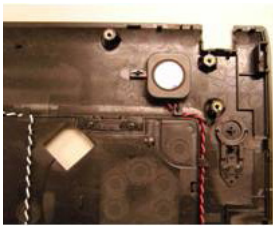
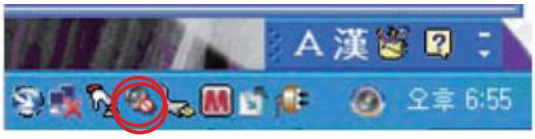
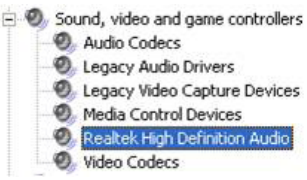
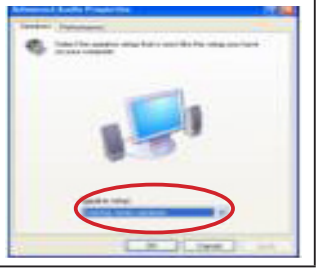
Main System Related Troubles

1. The system is not turned on.	
1. Check if the AC adapter LED is lit and if the adapter is properly connected to the system.	Check the adapter LED. 
2. If the AC adapter is not connected, check the charge status of the battery. Even if the battery is charged, if the remaining battery charge is too low, the system may not be turned on.	Check the AC adapter connection or the remaining battery charge. 
3. Check if there are any alien substances in the Power switch. if have, change the LED.	
4. Replace Main Board.	Check operating or not.
2. the system does not boot or immediately turns off after being turned on.	
1. Since this may be a short circuit in the system.	Disconnect the power immediately, disassemble the system and check if there are any conducting alien objects such as a screw inside.
2. Check the connection status between the CPU and the RHE.	
3. Replace the memory module.	* Check if it is out of order.
4. RTC Reset.	* Check if it is out of order.
5. Replace Main Board.	* Check if it is out of order.

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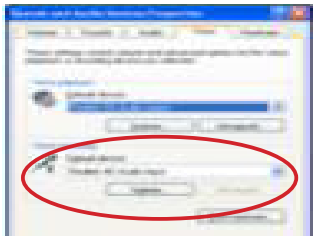
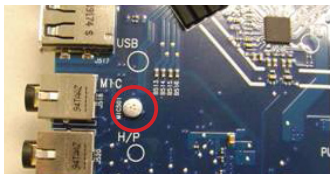
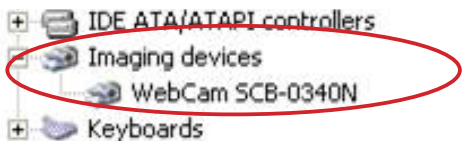
4. Troubleshooting

3. Speaker doesn't work.	
1. Check if the sound is muted after booting up Windows. ➔ Fn + F6 (Mute cancellation)	
2. Control panel confirmation. ➔ Speaker Setting.	
3. Check the connection status of the speaker cable and check if the speaker is out of order.	
4. Check if there is a magnetic object near the speaker.	 
5. Replace Main Board.	Check if it is out of order.
4. I cannot hear sound through the headphones.	
1. Check if the sound is muted after booting up Windows. ➔ Fn + F6 (Mute cancellation)	
2. Control panel confirmation. ➔ Speaker Setting.	 

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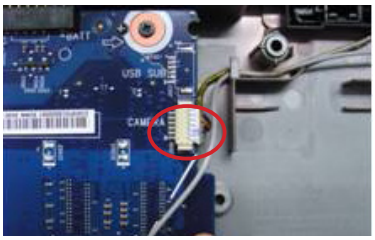
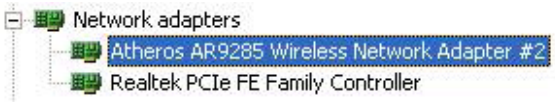
4. Troubleshooting

3. Turn the volume up. ➔ Fn key volume adjustment.	
4. Check the Headphone jack.	
5. Replace Main Board.	Check if it is out of order.
5. external/Internal microphone does not work normally.	
1. Check the audio driver settings and change them if necessary.	 
2. Check the connection status of the MIC connector and check if the speaker is out of order.	
3. Replace Main Board.	Check if it is out of order.
6. The HDD is not recognized.	
1. Check the connection status of the HDD connector. fixup HDD, check whether the system can be found. if not,change the connector on the motherboard and check again.	
2. If the 'Operating system not found' message appears during the booting process even though the HDD is recognized by CMOS, the operating system of the HDD may be corrupted or the HDD is out of order.	Format the HDD and reinstall the operating System. Replace the HDD with a new one.
7. Camera does not work normally.	
1. Check the driver status of Camera (Check the system manager)	

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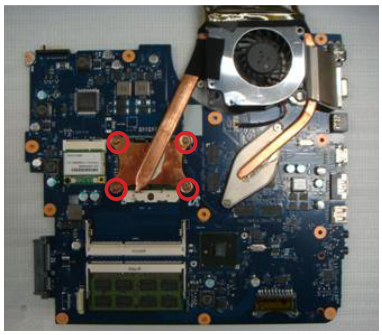
4. Troubleshooting

2. Check the connection status of camera cable between Main board.	
3. Check the connection status of camera cable between Camera module.	
4. Replace Camera module.	Check if it is out of order.
5. Replace Main Board.	Check if it is out of order.
8. WLAN does not work normally.	
1. Check the damage status of WLAN Cable. ➔ Replace WLAN Cable.	
2. Check the driver status of WLAN. ➔ Replace WLAN module.	
3. Check the damage status of WLAN Jack. ➔ Replace WLAN module.	
4. Replace Main Board.	Check if it is out of order.
9. The Fan does not work normally.	
1. Check the system by using SAFC(Samsung Advanced Fan Control) program.	*Tool Program Reference

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2. Check the connection status of Heat sink. ➔ Screw fixation 6EA (Ref. chapter 3)	
3. Check the connection status of FAN.	
4. Replace FAN.	Check if it is out of order.
5. Replace Main Board.	Check if it is out of order.

Other symptoms

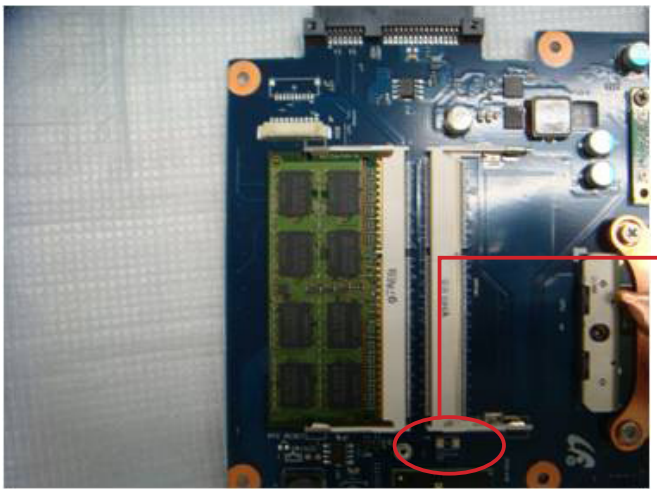
When booting up the computer	
The "Invalid System Disk. Replace the Disk and then press any key" message appears.	- This message may appear when the connected USB memory or CD media does not include bootable data. - The "Reboot and Select the proper Boot device or Insert a bootable media in the selected Boot device and press a key" message appears. - Check if the signal and power cables are properly connected to the hard disk drive. - Check if the hard disk drive is recognized in the BIOS SETUP. - The operating system on the hard disk drive is corrupted. Reinstall Windows.
The "To enter BIOS SETUP, press <F2>. To continue, press <F1>." message appears.	- This may happen when the BIOS settings are different from the system environment. In this case, setup the BIOS according to your system environment. - Press <F2> to enter the BIOS SETUP. - Check if the date and time are correct in the BIOS SETUP. - Save the settings and restart the system.
The "CMOS Checksum error" message appears.	- This message may appear when the CMOS battery of the main board is completely discharged. In this case, replace the battery with a new one of the same type and set up the BIOS SETUP according to your system environment.
Windows boots up in safe mode.	- This may happen when Windows was not shut down normally. Therefore, shut down the system by selecting Start > Turn Off Computer. - This may happen when the system settings have been incompletely recognized. - Run Check Disk.
I cannot boot up the computer with a USB floppy drive or from USB memory.	- Check if the diskette is bootable. - This may happen when the booting priority of the device is low. In this case, change the booting priority in the BIOS SETUP.

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4. Troubleshooting

When shutting down the compute	
The computer is not shut down.	- If Windows does not end normally, you can forcibly shut down the system by pressing the Power button. If the power-saving feature is activated on the Power button, press the Power button for more than 4 seconds to turn the computer off. If the computer is then turned on again, Check Disk is automatically run.
Windows / Screen Related Problems	
The computer hangs while running a program.	- If the running program causes an error: In Windows XP, press the <Ctrl>, <Alt> and <Del> key combination, select the application program and click on End Task in the Applications tab of the [Windows Task Manager] window. In Windows 2000, press <Ctrl>, <Alt> and <Del> at the same time to open the [Close Program] window, select a 'No response' item or a program with an error, and click End Task. - If Windows does not respond, restart the computer. Restart the computer by pressing the Power button.
No picture is displayed on the external monitor.	- Press the Switch LCD/CRT Monitor function key and check if the screen output is output to another display device. - Check if the hardware is out of order referring to the descriptions in the LCD related section of the Hardware Troubleshooting.
ODD Related Troubles	
A disc is not recognized or read.	- Check if the ODD module and the main board are properly connected with the 50 pin connector.- Replace the ODD, if necessary.
Power-Saving Mode Related Trouble	
Connecting a USB device to the computer in standby mode.	- If a USB device is connected to the computer in standby mode, the screen may be abnormally displayed. You have to connect a USB device when the computer is operating normally.
A USB device is not working normally when the computer returns from standby mode.	- In this case, separate and reconnect the USB device.
The picture is displayed abnormally when the computer running the Command Prompt (MS-DOS) enters standby mode and then returns from standby mode.	- Press the <Alt> and <Tab> key combination to display the picture on the screen



RTC Reset

Remove the memory cover in the bottom and then check the button of the RTC reset located in the bottom.
Data saved in the CMOS shall be reset by shorting 20-30 seconds of the both sides of PAD with a pin-set.

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4. Troubleshooting

4-6. CPU Fan Control

How to Check the CPU Fan

The Fan does not work normally.

1. Check if the Thermal is locked tightly.

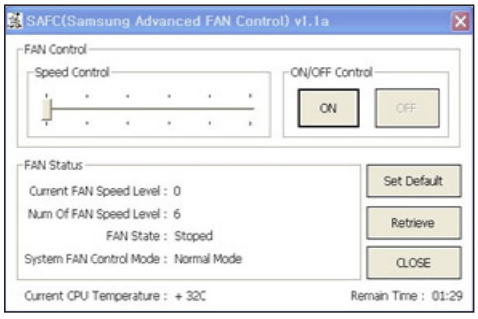
2. Check if the Fan cable is properly connected.

3. Fan change.

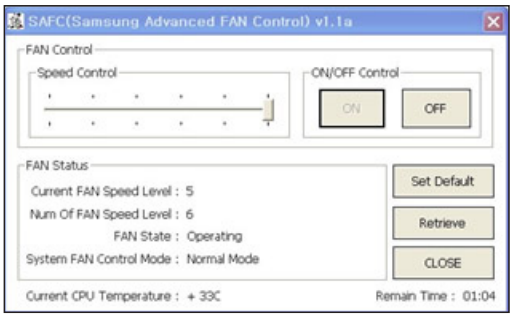


Checking the Work of FAN

One can turn the fan on & off and check the fan's operational conditions without system disassembly.

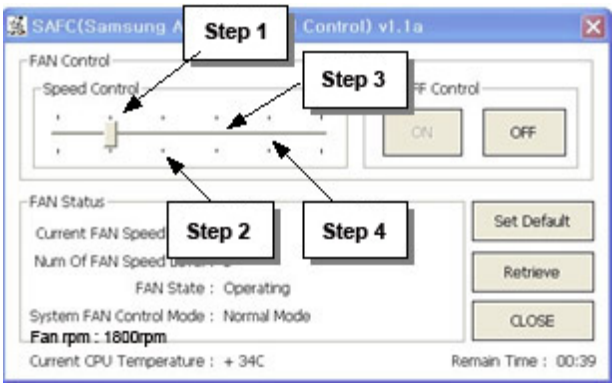


Pic (1) Fan off status



Pic (2) Fan on status

- SAFC's default setting is "Fan off" or "Minimum Fan Speed".
  - Press "ON" in "ON/OFF Control" Fan is turned on to maximum fan speed.
  - Press "OFF" in "ON/OFF Control" Fan returns to default setting.



Pic (3) Adjust FAN State

[Fan Voltage Measurement]

- Read Fan RPM indicated in SAFC.

[Fan Voltage Pass/Fail determination]

- If Fan RPM satisfies "rpm spec +/-10%", then Fan test is "PASS"

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4. Troubleshooting

How to Check the CPU Fan

(1) Normal Mode

Mode	FAN SPEED
OFF	0
1	2048
2	2276
3	2560
4	2858
5	3367

(2-1) Silent Mode [Auto]

Mode	FAN SPEED
OFF	0
1	2048
2	2276
3	2560
4	2858

(2-2) Silent Mode [Low]

Mode	FAN SPEED
OFF	0
1	2048
2	2276
3	2560
4	2858

(3) Battery Mode

Mode	FAN SPEED
OFF	0
1	2048
2	2276
3	2560
4	2858
5	3367

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4. Troubleshooting

4-7. Battery Use Time

Check the following check lists for systems where the battery use time is too short to diagnose problems.

Check the battery

Check if the battery is out of order referring to the Battery check program distributed to Service Centers and the 'Battery Check Manual' included in the 'Note-PC A/S Guide'.

(1) Battery Check List

Please mark "✓" in the box (☐) of each applicable items, after checking the battery status with the "battery checking program"

1. Does the battery communicate normally with system?
   - ☐ PASS
   - ☐ FAIL
2. Is the battery charged normally?
   - ☐ PASS
   - ☐ FAIL
3. Is the battery discharged normally?
   - ☐ PASS
   - ☐ FAIL
4. Is the battery still in warranty?
   - ☐ Excess than 6/12 months : Out of warranty
   - ☐ Excess than 300 Cycles : Out of warranty
   - ☐ Less than 6/12 months : PASS
   - ☐ Less than 6/12 months : FAIL

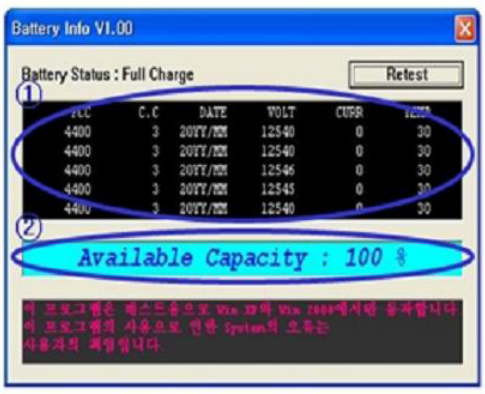
(2) Criteria for each of the check lists.

1. Does the battery communicate normally with system?

☐ PASS

①: Data displayed in the data window.

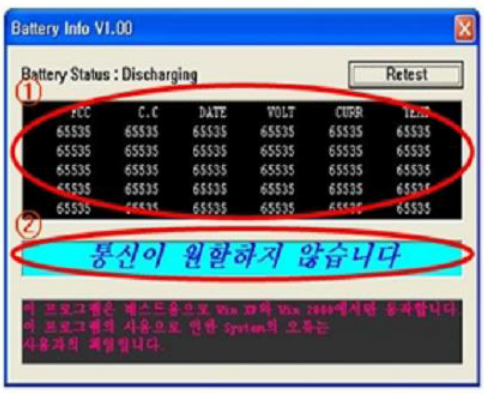
②: Available capacity displayed : 0 ~ 100%



☐ FAIL

①: The code 65535 displayed

②: Displayed the error message in Korean "통신이 원할 하지 않습니다"



☞ recommended : When the communication failed, please set a normal battery to the system and check first which -battery or system- has the problem.

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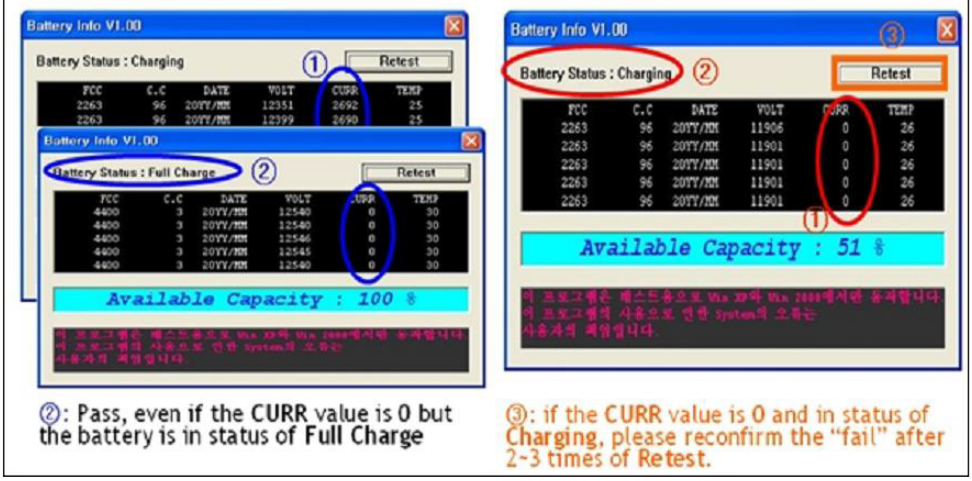
2. Is the battery charged normally?

☐ PASS

①: Pass, if the CURR values are within 35 ~ 3500

☐ FAIL

①,②: Fail, if the CURR values are 0 and the battery status is in Charging.



②: Pass, even if the CURR value is 0 but the battery is in status of Full Charge

③: if the CURR value is 0 and in status of Charging, please reconfirm the "fail" after 2~3 times of Retest.

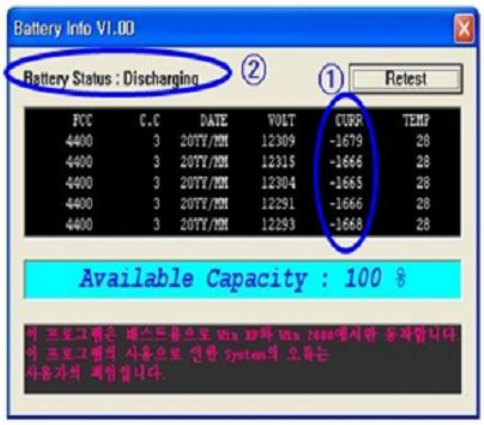
3. Is the battery discharged normally?

☐ PASS

①,②: Pass, if the CURR values are within -50 ~ -5000 and the battery status is in Discharging.

☐ FAIL

Fail, if the System is off status when the adaptor is removed from the System



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4. Troubleshooting

4. Is the battery still in warranty?

☐ Excess than 6/12 months : Out of warranty

☐ Excess than 300 cycles : Out of warranty

☞ **Warranty period** : Within 12 **months after sales date, more than 60% of initial electric capacity after 300 cycles.**

*** Reference** : If a battery is out of warranty, the battery can not be considered as "defected". So if a customer requests to exchange his battery in this case, the battery should be provided **onerously with sales price**. So please persuade customer to use continuously his battery, with the explanation of effective capacity of his battery, if the battery have no defect but only small decrease of capacity.

☐ Less than 6/12 months : PASS

☐ Less than 6/12 months : FAIL

☞ **①Please refer to "Capacity Standard Table" (or ②Capacity Standard Graph). Please judge Pass or Fail after checking the sales date of a battery. Pass, if the capacity of the battery is over than the value of corresponded date of "Available Capacity" column in the Table. Fail, if the capacity is lower than the value.**

* Reference : The battery capacity can have individual error according to the user's circumstance of the battery. So it is recommended that the battery should be checked (with Battery Check Program) after calibration (Smart Battery Calibration: Full charge/discharge or Full discharge/charge)

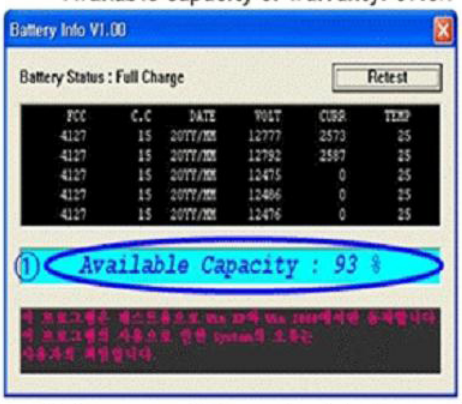
[Example]

☐ Less than 6/12 months: PASS

①: Available Capacity: 93%

Duration of Use : 1month(30days)

Available Capacity of warranty: 87.8%

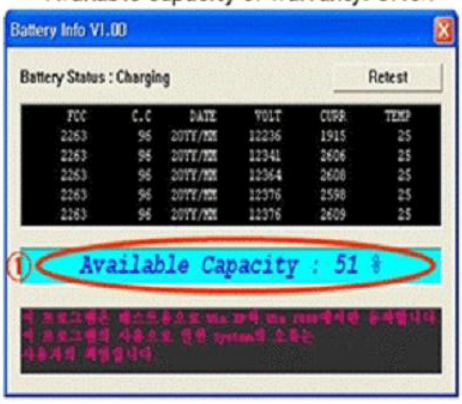


☐ Less than 6/12 months: FAIL

①: Available Capacity: 51%

Duration of Use : 1month(30days)

Available Capacity of warranty: 87.8%



* Reference : If the sale date is 2004.5.10 and service receipt date is 2004.6.10, the Duration of Use is regarded as 1 month(30days)

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4. Troubleshooting

(3) Battery capacity Table

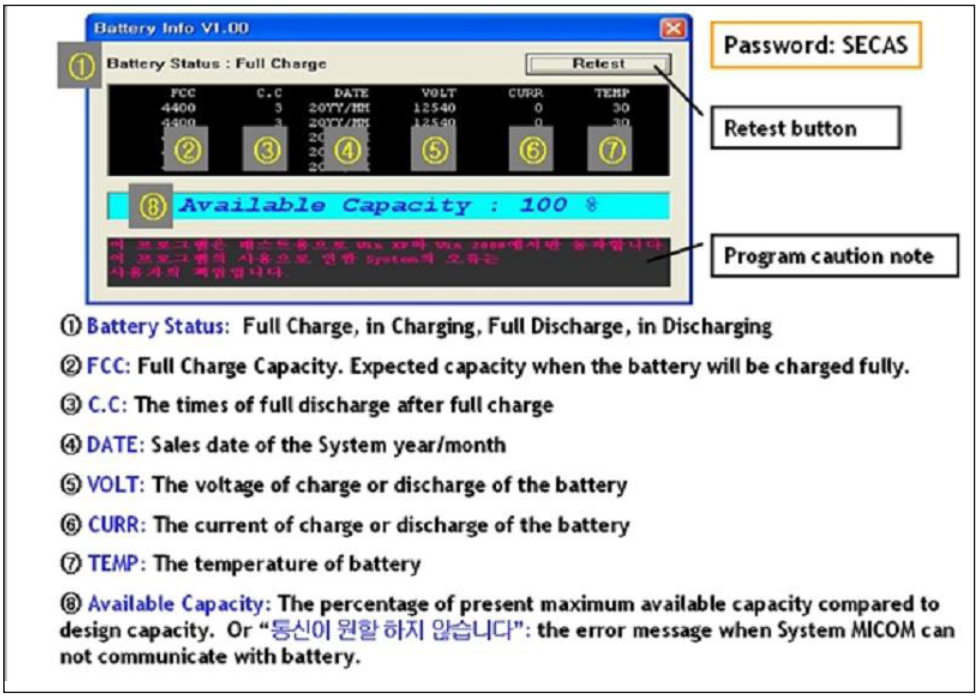
Duration of Use	Available Capacity(%)
Within 0.5month (15days)	More than 93.6 %
Within 1.0month (30days)	More than 87.8 %
Within 1.5month (45days)	More than 82.5 %
Within 2.0month (60days)	More than 77.8 %
Within 2.5month (75days)	More than 73.6 %
Within 3.0month (90days)	More than 70.0 %
Within 3.5month (105days)	More than 66.9 %
Within 4.0month (120days)	More than 64.4 %
Within 4.5month (135days)	More than 62.5 %
Within 5.0month (150days)	More than 61.1 %
Within 5.5month (165days)	More than 60.3 %
Within 6.0month (180days)	More than 60.0 %

* Reference

Duration of Use : The using period from the sales date of the system (with battery)

Available Capacity(%) : The real capacity of the battery, decreased from the design capacity by the user's circumstance, keeping status or etc.

(4) Battery Check Program



① **Battery Status:** Full Charge, in Charging, Full Discharge, in Discharging

② **FCC:** Full Charge Capacity. Expected capacity when the battery will be charged fully.

③ **C.C:** The times of full discharge after full charge

④ **DATE:** Sales date of the System year/month

⑤ **VOLT:** The voltage of charge or discharge of the battery

⑥ **CURR:** The current of charge or discharge of the battery

⑦ **TEMP:** The temperature of battery

⑧ **Available Capacity:** The percentage of present maximum available capacity compared to design capacity. Or "통신이 원할 하지 않습니다": the error message when System MICOM can not communicate with battery.

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4. Troubleshooting

Check the battery use environment

1. **Generally, the battery usage time in advertisements by notebook manufacturers refers to the maximum battery use time. Since the system specifications and the usage environment may differ, the user's battery usage time may differ from the advertisement even if there is no problem with the system.**

2. **Conditions for the company's maximum battery use time**
   a. Minimum LCD brightness, base system, the wireless LAN R/F is turned off, Battery Manager- Maximum Battery Mode
   b. Measuring Tool: Battery Mark v.4.0.1

3. **If a customer complains about the battery usage time, let them know that the battery usage time may differ depending on the model**
   specifications and the usage environment and recommend the following usage environment for longer battery time. a. Use the company's power-saving program, Battery Manager, and set Batter yManager to Maximum Battery Mode. b. LCD brightness: Set to the minimum level as long as the user does not experience inconvenience. c. Disable unnecessary devices : Turn the wireless LA N R/F switch off and disable USB devices (DMB, fingerprint recognition and Bluetooth)

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4. Troubleshooting

4-8. Q & A

Display Related

The LCD screen is too dark or too bright.	Turn the LCD backlight on or adjust the LCD brightness. Press Fn +  to turn the LCD backlight on or press Fn +  , or Fn + Fn +  to adjust the LCD brightness.
The screensaver is activated while Media Player is playing a movie or video clip.	Unselect Library > More Options > Player > Allow screen saver during playback in the Media Player.
When I connect a projector, and change the settings to display the screen image on both the LCD and the projector by pressing the Fn+  , the screen is not displayed properly.	Press the Fn +  keys again. If the problem continues even after pressing the key combination, this is because the current resolution is too high and is not supported by the projector. In this case, change the resolution to 1024x768 pixels.
When I connect a projector, the taskbar at the bottom of the screen is not displayed on the projector.	This occurs because a WXGA LCD supports a resolution of 1280×800 pixels but the resolution is not supported by the projector. In this case, change the resolution to 1024x768 pixels (recommended).

Sound Related

I cannot find an AP.	[LAN indicator OK] A Wireless LAN On / Off status indicating LED (light) is turned on check. If the wheel is turned off, press the button after running the MENU button and press the On from the Wireless LAN. WLAN is turned on. [Reinstall Driver] A software by using the media to reinstall the driver. [Wireless Zero Configuration (WZC) service-driven health check] A wireless network search search window "Windows can not configure this wireless connection" message coming out of the window to other programs if it is are the wireless settings. Use Windows if you want to use wireless LAN z Start "Control Panel" Network and Internet Connections "network connection" wireless connection, then right-click the Wireless Network tab in the Properties window, Window on the wireless network configuration (W) must be a check box is selected , x Start "Control Panel" Performance and Maintenance "Administrative Tools" Computer Management, double-click Services and Applications then run "service by clicking on items appearing on the right side, double-click the Wireless Zero Configuration, click Start, type: [Auto] service status (started) is set to check.
Unable to connect to the AP. (The connection is dropped frequently.)	[Confirm network key] A wireless network connection icon in the taskbar, right-click with your mouse and click View available wireless networks are. The wireless network is detected, the device is in normal operation, one or more networks can be set. Network key (encryption key) and check the status of the AP settings.

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Unable to connect to the AP. (The connection is dropped frequently.)	[Close to the device using the same frequency, OK] A1 and other wireless LAN devices, wireless video transceivers, microwave, plasma, such as light bulbs, etc. If you have products that use the frequency channel interference may occur. Other product and channel interference occurs, AP change to a different channel is recommended. A2 IEEE802.11g mode operation, if the environment around the IEEE802.11b devices operate in mixed mode operation, so that rates can cause a decrease in severe cases can be disconnected. [Authentication check] A IEEE 802.1x authentication in an environment that does not use IEEE 802.1x network authentication option is selected, if time allows and then disconnects. Wireless Network Properties, view the properties of the AP. Authentication using IEEE 802.1x authentication on the network tab, uncheck the window. For more information about authentication servers, contact your network administrator. [AP Settings section of the check] A1 is suitable for use in the wireless LAN environment check. The surrounding environment and the wireless access may be limited depending on the distance. Obstacles such as walls and doors affect the wireless access. AP to the high places, around the teuin place, and the effects of propagation away from the other install. AP has so far been installed, or installed in the building at one end to the other end, if you use wireless, geonmulbyeok by obstacles such as wireless communication may not be smooth. A2 AP check that it works properly. AP does not operate normally if the AP's power off and on again after a second look. Firmware is the latest version of the A3 AP check. (AP Firmware for more information about the manufacturer or the place of purchase, please contact the AP.) A4 AP Make sure the network is properly connected. AP is connected to a wired LAN cable to connect to a computer network is working properly and make sure. A5 network key (encryption key), check the settings again. Feature automatically converts the password (passphrase feature) turned on and data transmission over a wireless connection is not made when the manual network key (encryption key), type use. A6 Please check the settings as follows: AP. If more than one AP, each AP to exist at the same time set the number of channels to check. If the narrow channel between the AP interval can cause interference. Each AP is set to be away from the left channel number. (Example: Ch1, Ch5, Ch9, Ch13) AP's SSID is set to hidden options, the computer can not detect the AP. AP to set the hidden option is recommended termination. SSID (Service Set ID) that differentiates one wireless LAN to give other wireless raeneurobuteo name. It is recommended that you use Long Preamble. Preamble for synchronizing data transmission signal to Iran, AP, depending on the type of equipment to support the Short Preamble, but may be compatible on the issues. Automatic channel setting a fixed channel settings (Auto channel selection), so the more stable it is recommended to set a fixed channel. Block Any, Any Connection Block and is recommended not to use them. This network name in the Client Any one or Blank ability to disallow the connection, but there may be compatibility issues. AP configuration provides manufacturers with the AP, see the documentation.

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Connection, but the Internet does not.	[TCP / IP Settings Check] A AP and the connection but the Internet is not the case, TCP / IP settings are correct. If this is not associated with AP, the wireless network connection icon in the taskbar to display X boyimyeo, double-click the wireless icon in the Search window will appear. Also use a wireless LAN network to connect to a wireless network ° íÇ □ þî, please try again. Connection with the case of AP, the wireless network connection icon in the taskbar does not have an X display. Double-click the icon on the Support tab to determine whether IP is correctly assigned. If you do not assign the top appears as follows. (Example: 169.254.xxx.xxx) DHCP does not support the network, the network administrator must specify the correct IP. Also, if you are using a DHCP server on the server to the client is unable to assign an IP network may be impossible to use.
Wireless and wired to a single IP address at the same time you normally do not work.	Wireless and wired to a single IP address can not be used simultaneously. One turns to the IP address to use for wired and wireless, each network device does not use a network connection in Control Panel must be set to Disabled.
Setting up a small network, the Internet, file sharing is not.	Make sure the settings in McAfee SecurityCenter. After running the McAfee SecurityCenter Advanced Menu "Configuration" Internet & Network "Advanced" to select the IP address of trust or restricted. Used to verify that the IP has been added. If not added, click the Add button to register your IP address.

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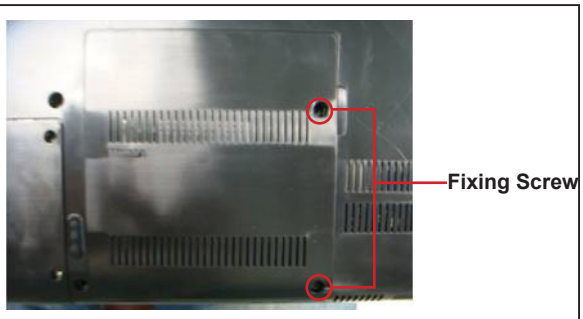
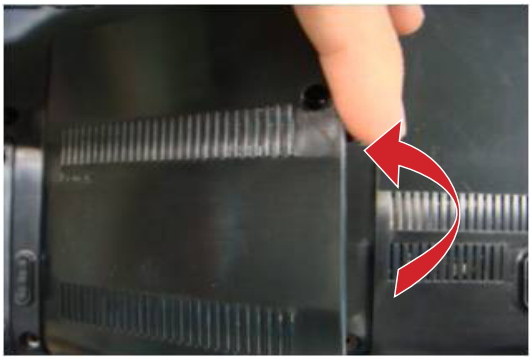
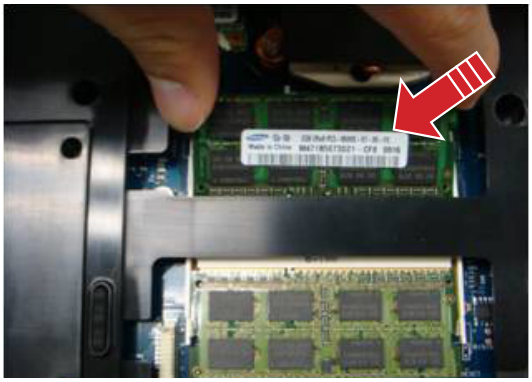
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4. Troubleshooting

4-9. Upgrading H/W

A memory is installed in the memory slot at the bottom of this computer. The procedures to replace the memory are described below.

Replacing the Memory

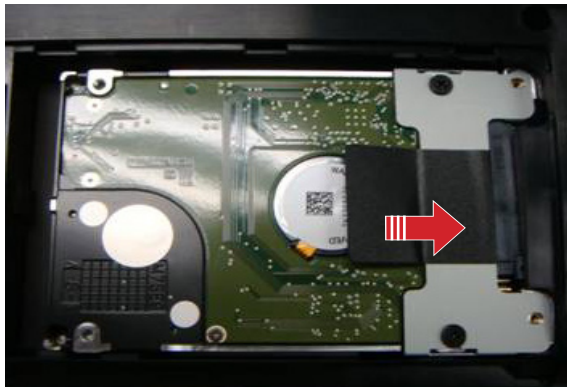
1. Eliminates the memory cover screw.	
2. Lift the cover opens the cover.	
3. Insert the memory slot of 30 degrees in the direction given by the combine memory. To remove the memory ➔ The memory tab on the outside to give him a little push up the memory gets thrown up. In the direction of 30 degrees, remove the memory.	

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4. Troubleshooting

Replacing the HDD

1. Remove the Bottom Cover.	
2. Helps to pull back and remove the HDD.	

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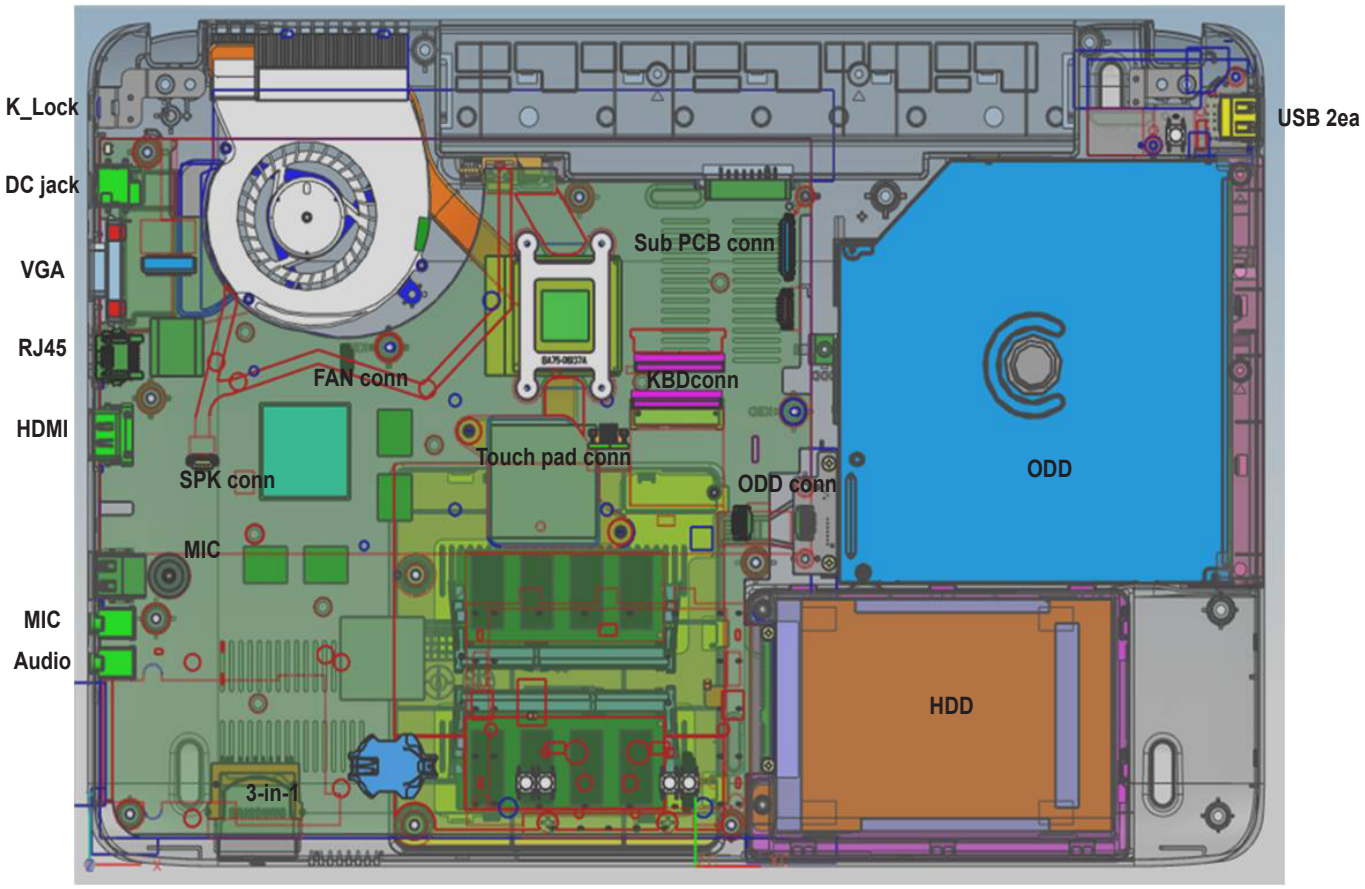
4. Troubleshooting

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7. System Wire Diagram

7-1. System layout (15.6)

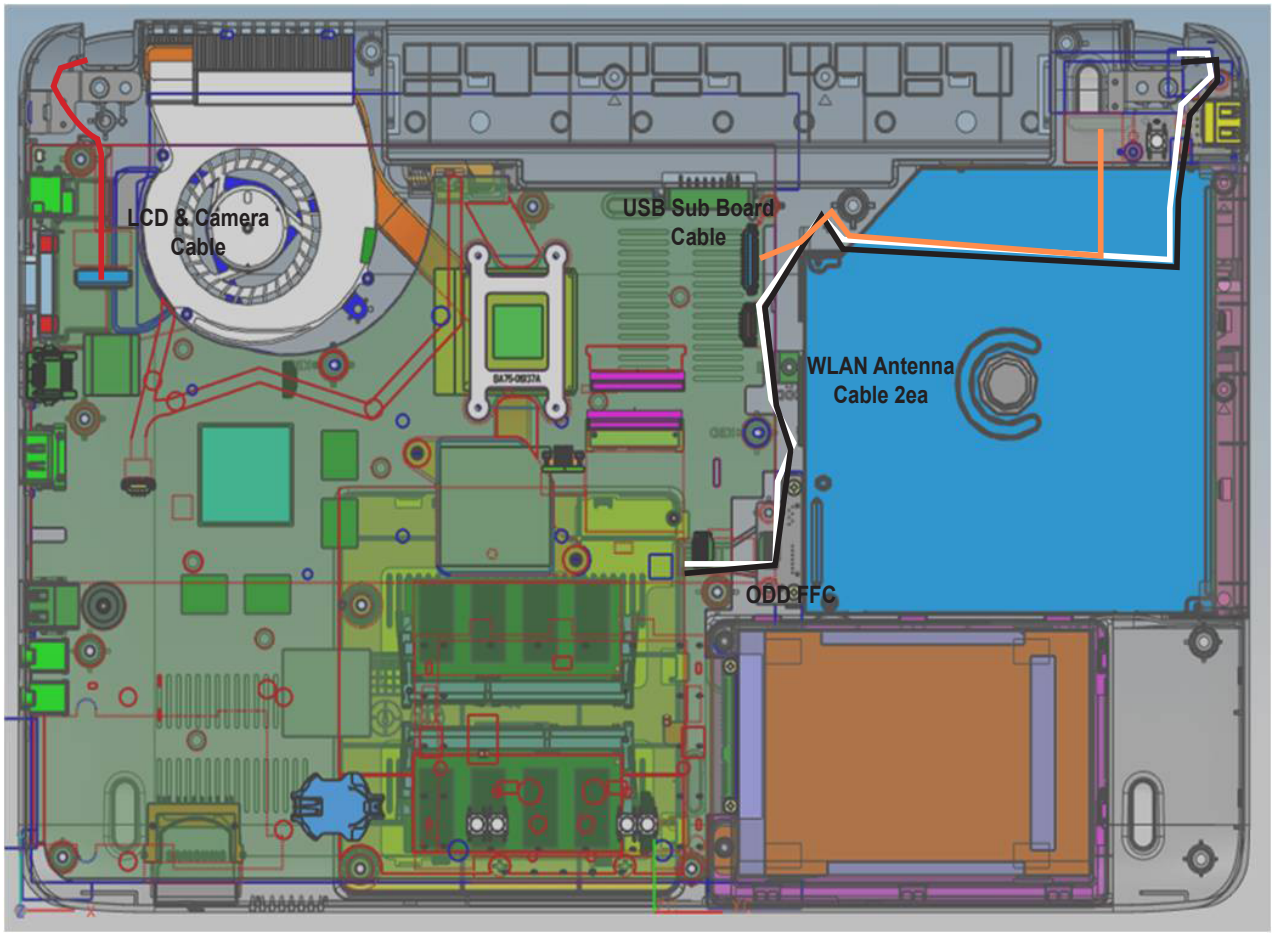


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7. System Wire Diagram

7-2. System wire diagram (15.6)

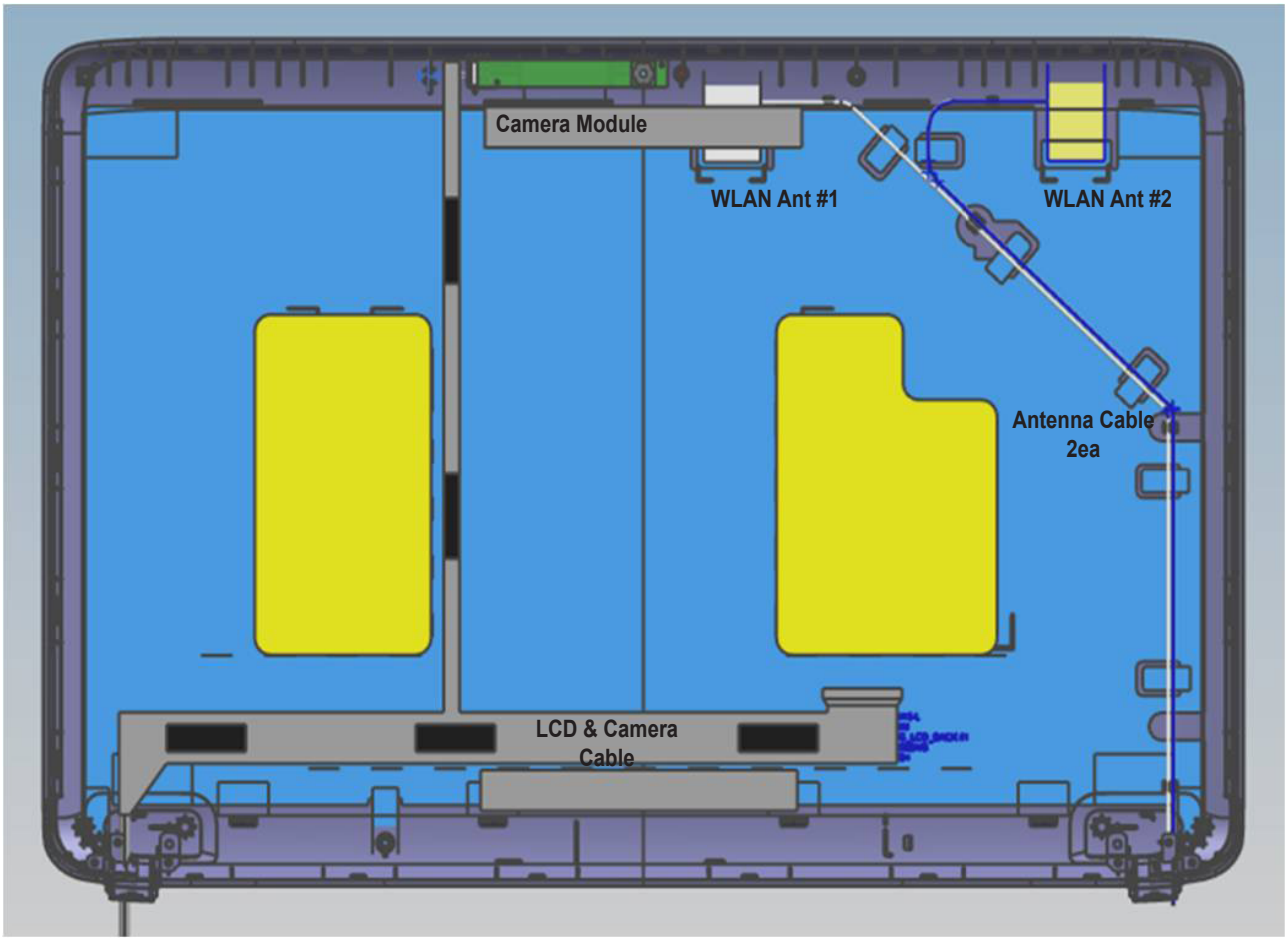


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7. System Wire Diagram

7-3. LCD Assy wire diagram (15.6)

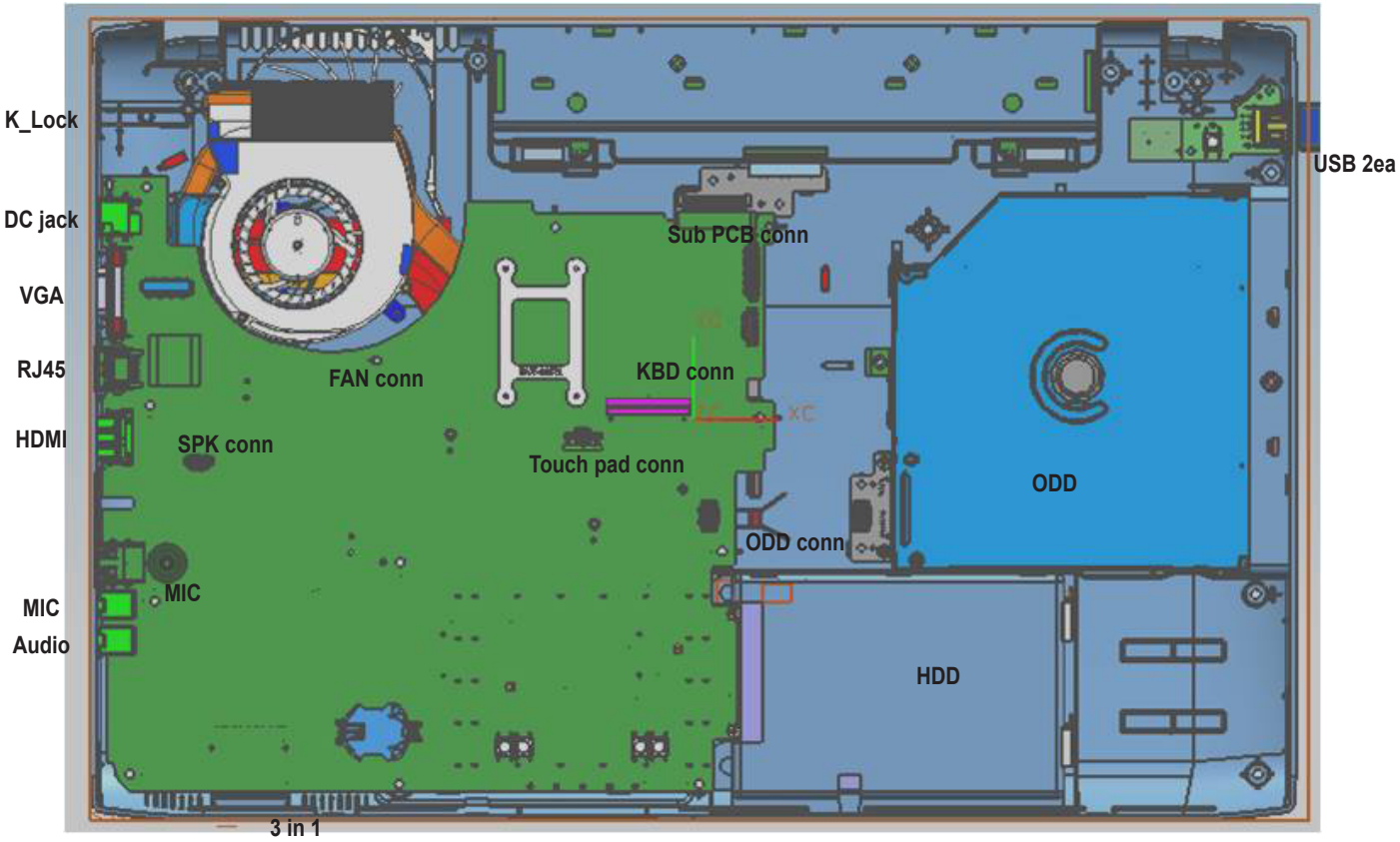


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7. System Wire Diagram

7-4. System layout (17.3)

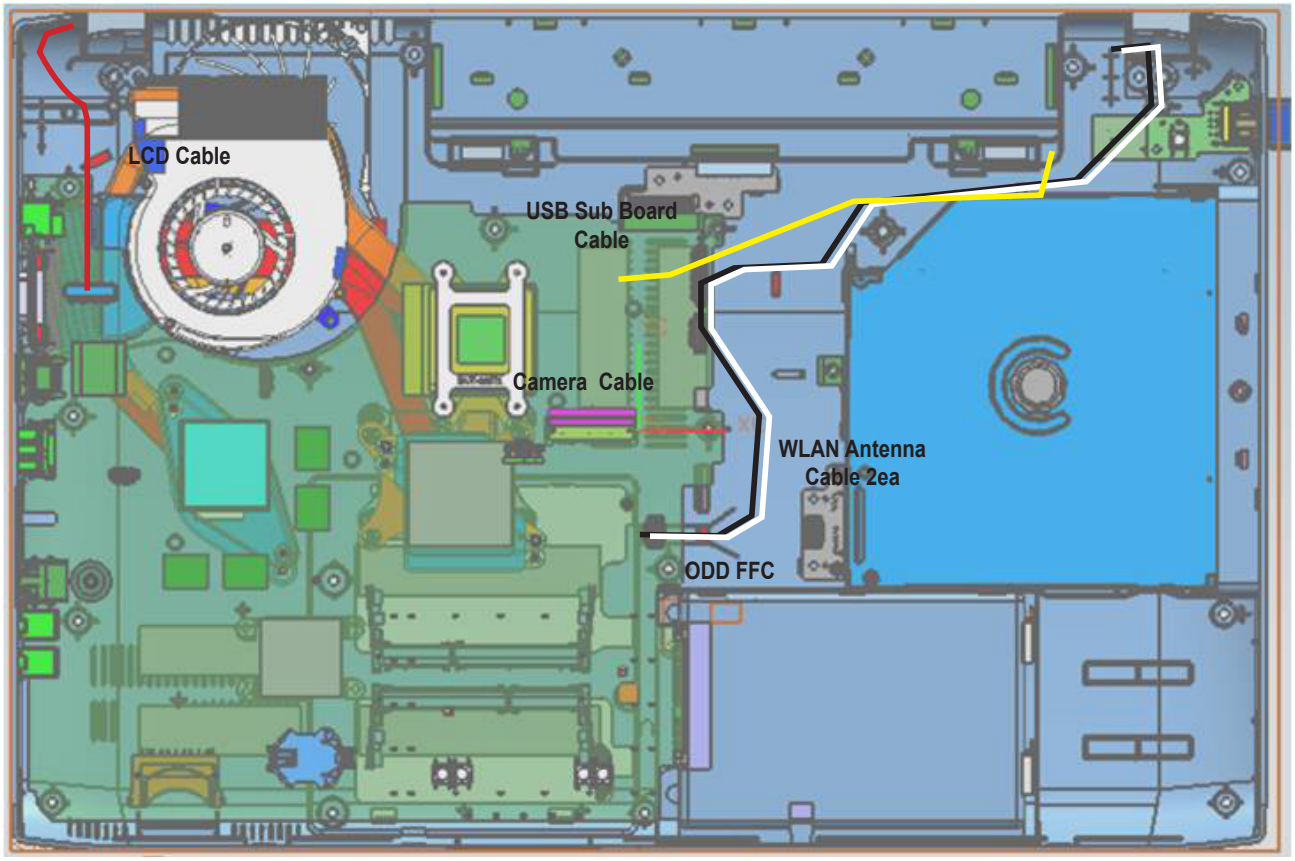


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7. System Wire Diagram

7-5. System wire diagram (17.3)



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7. System Wire Diagram

7-6. LCD Assy wire diagram (17.3)



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