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Module Parts

CPU

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
337S00592	1	CPU,AMS-T,000G,P06,1.4,1.15,BGA1515	U0500	CRITICAL	CPU_AMLY:QQQE
337S00593	1	CPU,AMS-T,000P,P06,1.4,1.15,BGA1515	U0500	CRITICAL	CPU_AMLY:QQQF
337S00594	1	CPU,AMS-T,000G,P06,1.4,1.15,BGA1515	U0500	CRITICAL	CPU_AMLY:QQQG
337S00613	1	CPU,AMS-T,000G,P06,RS,1.4,7W,1.15,B1515	U0500	CRITICAL	CPU_AMLY:QQQM
337S00614	1	CPU,AMS-T,000P,P06,RS,1.4,7W,1.1, B1515	U0500	CRITICAL	CPU_AMLY:QQQN
337S00615	1	CPU,AMS-T,000P,P06,RS,1.4,7W,1.05,B1515	U0500	CRITICAL	CPU_AMLY:QQQP
337S00621	1	CPU,AMS-T,000G,P06,RS,1.4,7W,1.15,B1515	U0500	CRITICAL	CPU_AMLY:QQQQ
337S00622	1	CPU,AMS-T,000G,P06,RS,1.4,7W,1.1, B1515	U0500	CRITICAL	CPU_AMLY:QQQR
337S00623	1	CPU,AMS-T,000P,P06,RS,1.4,7W,1.05,B1515	U0500	CRITICAL	CPU_AMLY:QQQS
337S00624	1	CPU,AMS-T,SR80P,PRQ,1.4,7W,1.15,BGA1515	U0500	CRITICAL	CPU_AMLY:SREKN
337S00625	1	CPU,AMS-T,SR80P,PRQ,1.4,7W,1.1, BGA1515	U0500	CRITICAL	CPU_AMLY:SREKP
337S00626	1	CPU,AMS-T,SR80Q,PRQ,1.4,7W,1.05,BGA1515	U0500	CRITICAL	CPU_AMLY:SREKQ
998-15364	1	INTERPOSER, WFTT ADAPTER, RSC-T, BGA1515	U0500	CRITICAL	CPU_AMLY:INTERPOSER

TBT Titan Ridge

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
338S00305	1	IC,TBT,TITAN RIDGE,QT2E,K-ES,A0,CBP337	U2800	CRITICAL	TBT_TR:A0
338S00356	1	IC,TBT,TITAN RIDGE SP,QT2E,B02,B0,CBP337	U2800	CRITICAL	TBT_TR:B0
338S00399	1	IC,TBT,TITAN RIDGE SP,QT2E,B02,C0,CBP337	U2800	CRITICAL	TBT_TR:C0
338S00408	1	IC,TBT,TITAN RIDGE SP,QUX,B0,C1,CBP337	U2800	CRITICAL	TBT_TR:C1
338S00441	1	IC,TBT,TITANRIDGE SP,B0AB0,PRQ,C1,CBP337	U2800	CRITICAL	TBT_TR:PRQ

Ace

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00961	2	IC,CD3215,ACE,C00,USB PWR SW,BLMS,BGA96	U3100,U3200	CRITICAL	ACE:C0_BGA
335S01442	2	IC,CD3215,ACE,C00,USB PWRON,BLMT,BGA96	U3100,U3200	CRITICAL	ACE:C0_NFBGA

Wireless

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
339S00448	1	MODULE,WIFI,TB8100 CD86,T,864-9,UGA160	U3700	CRITICAL	WIRELESS:USI
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:	
339S00446	339S00448		ALL	Murata Module	

SOC

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
339S00370	1	POP,C180ALTAN+10B 208W,H,B0,RCX,CBP1406	U3900	CRITICAL	SOC:B0_1G
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:	
339S00371	339S00370	SOC:B0_1G	ALL	Hynix 1GB SCK	
339S00375	339S00370	SOC:B0_1G	ALL	Micron 1GB SCK	
339S00376	339S00370	SOC:B0_1G	ALL	Hynix 1GB ATK	
339S00372	1	POP,C180ALTAN+10B 208W,H,B0,RCX,CBP1406	U3900	CRITICAL	SOC:B0_2G
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:	
339S00373	339S00372	SOC:B0_2G	ALL	Hynix 2GB SCK	
339S00377	339S00372	SOC:B0_2G	ALL	Micron 2GB ATK	
339S00378	339S00372	SOC:B0_2G	ALL	Hynix 2GB ATK	

PMU

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
338S00267	1	IC,PMU,CALPE,1024980,00P-A1,CBP324,4-4P	U7800	CRITICAL	PMU:A0_A

DRAM

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
333S00052	2	IC,SDRAM,LPD0R3-1866,32GBIT,20NM,BGA253	U2300,U2500	CRITICAL	DRAM:SAMSUNG_8GB
333S00130	2	IC,LPD0R3-1866,64GBIT,18NM,S,BGA253	U2300,U2500	CRITICAL	DRAM:SAMSUNG_16GB
333S00110	2	IC,LPD0R3-1866,32GBIT,21NM,BGA253	U2300,U2500	CRITICAL	DRAM:HYNIX_8GB
333S00111	2	IC,LPD0R3-1866,64GBIT,21NM,BGA253	U2300,U2500	CRITICAL	DRAM:HYNIX_16GB
333S00082	2	IC,LPD0R3-1866,32GBIT,20NM,BGA253	U2300,U2500	CRITICAL	DRAM:MICRON_8GB_1866
333S00113	2	IC,LPD0R3-1866,64GBIT,20NM,M,BGA253	U2300,U2500	CRITICAL	DRAM:MICRON_16GB
333S00199	2	IC,LPD0R3-2133,32GBIT,20NM,BGA253	U2300,U2500	CRITICAL	DRAM:MICRON_8GB

NAND

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00273	2	NAND,1E,128GBM,64E,128G,B0,BPM1,UGA110	U8600,U8700	CRITICAL	NAND:HPM1_256G_ZL
335S00289	3	NAND,3DV3,42GBP,XXX,64E,170G,T,UGA110	U8600,U8700,U8800	CRITICAL	NAND:PMLC_128G_TO
335S00301	3	NAND,3DV3,42GBP,XXX,64E,170G,B0,UGA110	U8600,U8700,U8800	CRITICAL	NAND:PMLC_128G_SD
335S00290	3	NAND,3DV3,85GBP,XXX,64E,170G,T,UGA110	U8600,U8700,U8800	CRITICAL	NAND:PMLC_256G_TO
335S00302	3	NAND,3DV3,85GBP,XXX,64E,170G,B0,UGA110	U8600,U8700,U8800	CRITICAL	NAND:PMLC_256G_SD
335S00292	3	NAND,3DV3,170GBP,XXX,64E,170G,T,UGA110	U8600,U8700,U8800	CRITICAL	NAND:PMLC_512G_TO
335S00304	3	NAND,3DV3,170GBP,XXX,64E,170G,B0,UGA110	U8600,U8700,U8800	CRITICAL	NAND:PMLC_512G_SD
998-12416	3	NAND,3DV3,42GBP,64E,170G,T,GBN_X,UGA110	U8600,U8700,U8800	CRITICAL	NAND:PMLC_128G_TO_NM
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:	
998-12417	998-12416	NAND:PMLC_128G_TO_NM	ALL	TO 128G Substrate 2	
335S00323	3	NAND,3DV3,42GBP,XXX,64E,170G,B0,UGA110	U8600,U8700,U8800	CRITICAL	NAND:PMLC_128G_SD_NM
998-12418	3	NAND,3DV3,85GBP,64E,170G,T,GBN_X,UGA110	U8600,U8700,U8800	CRITICAL	NAND:PMLC_256G_TO_NM
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:	
998-12419	998-12418	NAND:PMLC_256G_TO_NM	ALL	TO 256G Substrate 2	
335S00324	3	NAND,3DV3,85GBP,XXX,64E,170G,B0,UGA110	U8600,U8700,U8800	CRITICAL	NAND:PMLC_256G_SD_NM
998-12422	3	NAND,3DV3,170GBP,64E,170G,T,GBN_X,UGA110	U8600,U8700,U8800	CRITICAL	NAND:PMLC_512G_TO_NM
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:	
998-12423	998-12422	NAND:PMLC_512G_TO_NM	ALL	TO 512G Substrate 2	
335S00326	3	NAND,3DV3,170GBP,XXX,64E,170G,B0,UGA110	U8600,U8700,U8800	CRITICAL	NAND:PMLC_512G_SD_NM
335S00322	3	NAND,3DV4,512GBM,64E,256G,B0,UGA110	U8600,U8700,U8800	CRITICAL	NAND:3DV4_1P5T_SS
335S00373	3	NAND,3DV4,512GBM,64E,256G,B03,B0,UGA110	U8600,U8700,U8800	CRITICAL	NAND:3DV4_1P5T_SS_MG3

Programmables

TBT ROM

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00133	1	IC,EPT SERIAL FLASH,BM81T5,3-0V,1000H	U2890	CRITICAL	TBT_ROM:BLANK
341S00905	1	IC,ROM (V5.7) PHOTO-0,X1032	U2890	CRITICAL	TBT_ROM:P0
341S00922	1	IC,ROM (V1.1) ROM,PHOTO-0,X1032	U2890	CRITICAL	TBT_ROM:P0_B0
341S00942	1	IC,ROM (V5.1) PHOTO-1,X1032	U2890	CRITICAL	TBT_ROM:P1
341S00982	1	IC,ROM (VXXX) PHOTO-2,X1032	U2890	CRITICAL	TBT_ROM:P2
341S01046	1	IC,ROM (VXXX) EVT,X1032	U2890	CRITICAL	TBT_ROM:EVT
341S01150	1	IC,ROM (VXXX) PHOTO-3,X1032	U2890	CRITICAL	TBT_ROM:P3
341S01177	1	IC,ROM (VXXX) EVT-2,X1032	U2890	CRITICAL	TBT_ROM:EVT2

BT ROM

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00256	1	IC,EPT SERIAL FLASH,BM81T,1-0V,1000H	U3770	CRITICAL	BT_ROM:BLANK
341S00745	1	IC,BT ROM (V4) PHOTO-0,X1032	U3770	CRITICAL	BT_ROM:P0
341S00939	1	BT SPLASH ROM (V22.33.40) PHOTO-1,X1032	U3770	CRITICAL	BT_ROM:P1
341S00983	1	BT SPLASH ROM (VXXX) PHOTO-2,X1032	U3770	CRITICAL	BT_ROM:P2
341S01042	1	BT SPLASH ROM (VXXX) EVT,X1032	U3770	CRITICAL	BT_ROM:EVT
341S01176	1	BT SPLASH ROM (VXXX) EVT-2,X1032	U3770	CRITICAL	BT_ROM:EVT2
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:	
335S00248	335S00256	BT_ROM:BLANK	ALL	Macronix	
335S00255	335S00256	BT_ROM:BLANK	ALL	Adesto	

Wifi ROM


PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00145	1	IC,EEPROM,4KX17,1-0V,SELECT 0M0,700H	U3780	CRITICAL	WIFI_ROM:BLANK
341S00744	1	WIFI ROM (P101) PHOTO-0,BM1,X1032	U3780	CRITICAL	WIFI_ROM:P0
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:	
335S00236	335S00145	WIFI_ROM:BLANK	ALL	Rohm	

SOC ROM

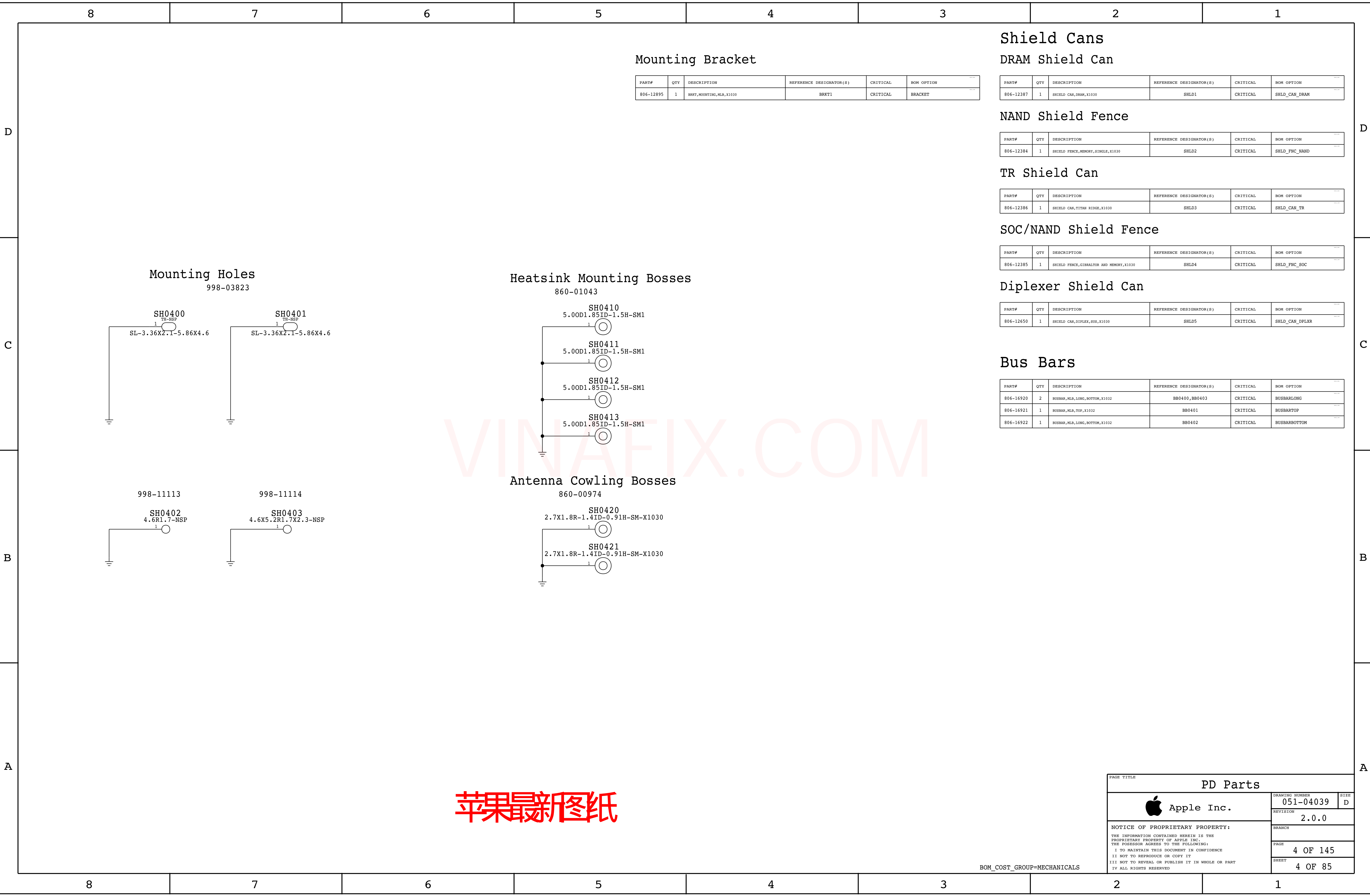
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00203	1	IC,FLASH,SERIAL,EPT,40KX1,1-0V,4X10M,700H	U4770	CRITICAL	SOC_ROM:BLANK

EFI ROM

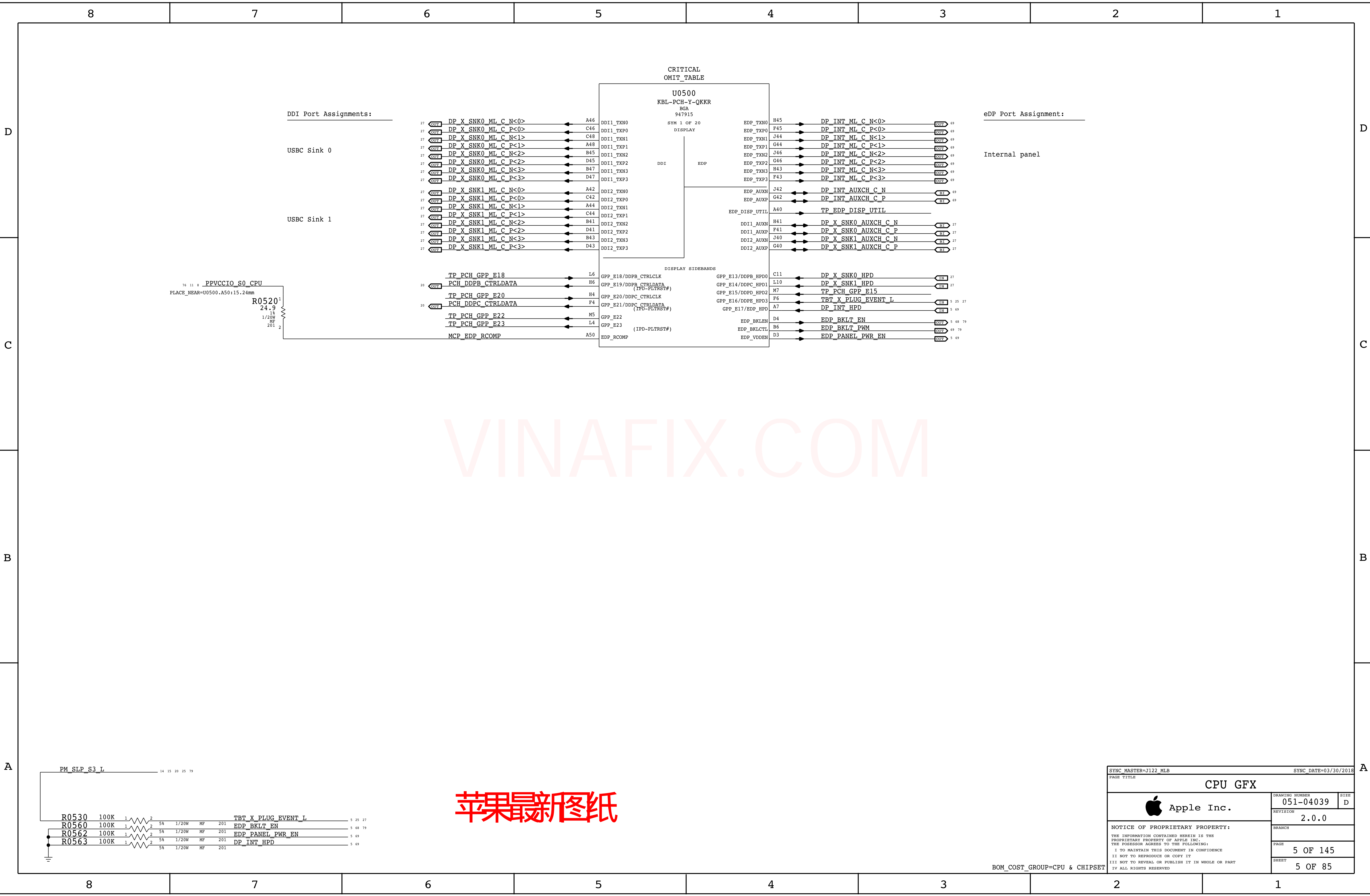
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S00371	1	IC,SERIAL FLASH,128MBIT,1-0V,GM-1,9000H	U2100	CRITICAL	EFI_ROM:BLANK
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:	
335S00370	335S00371		ALL	Macronix	
335S00376	335S00371		ALL	Adesto	

PAGE TITLE		
BOM Configuration		
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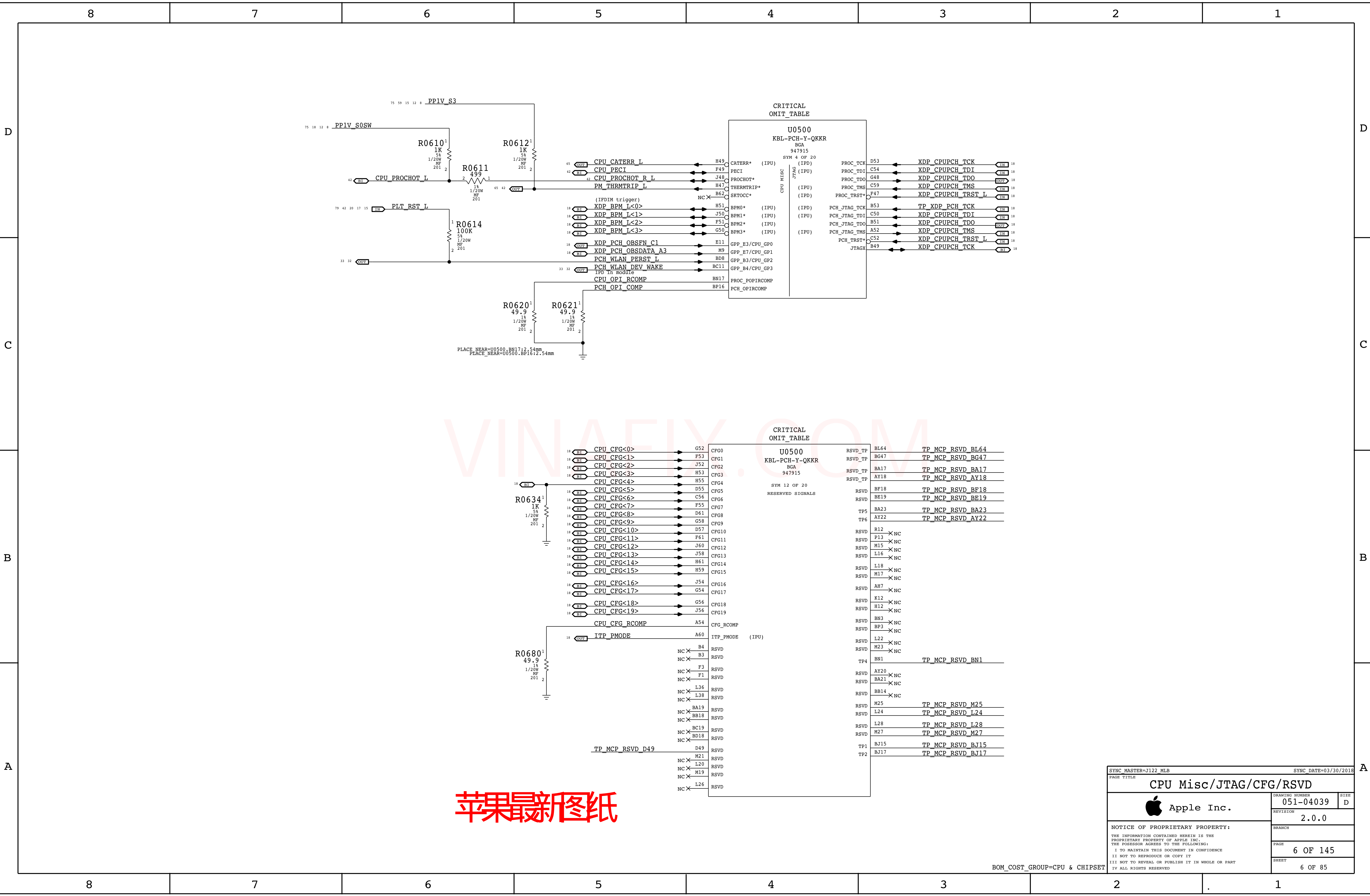
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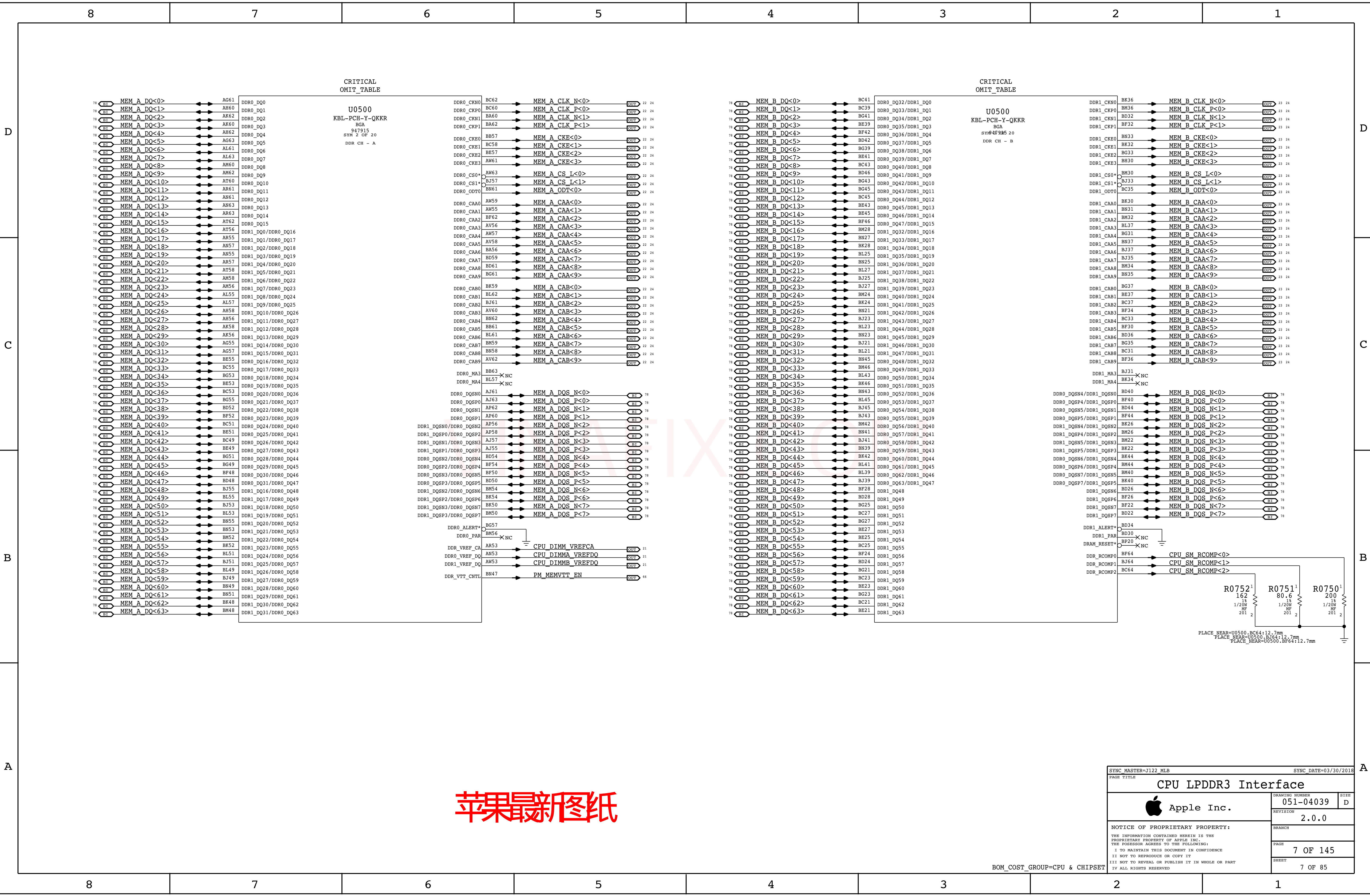
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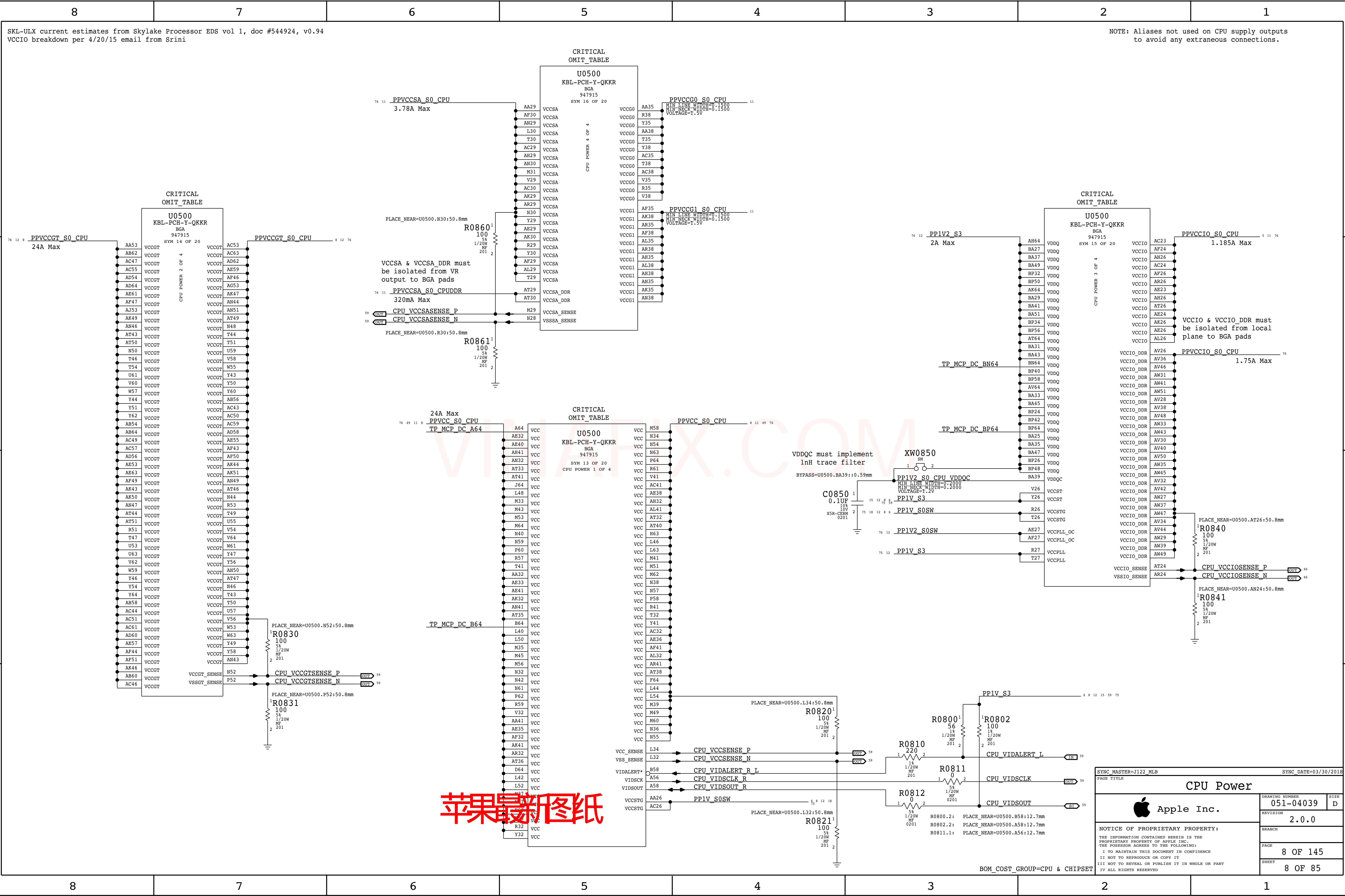
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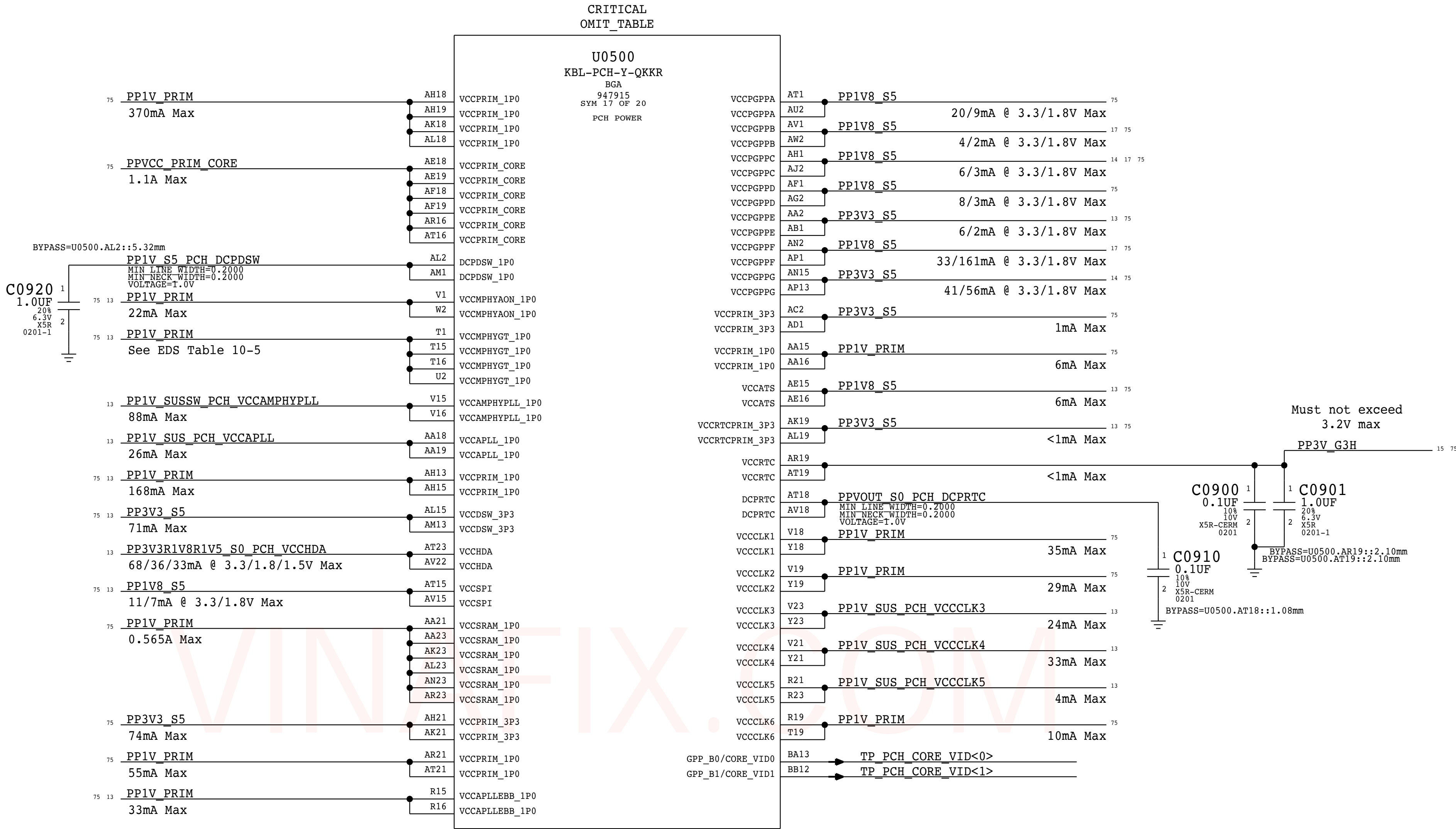
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CPU LPDDR3 Interface			
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SPT-LP current estimates from Sunrise Point-LP PCH EDS vol 1, doc #545659, vl.2.
VCCAMPHYPLL_1P0 and VCCPRIM_1P0 / VCCPRIM_3P3 breakdowns from Srini email 4/13/15

NOTE: Aliases not used on CPU supply outputs
to avoid any extraneous connections.



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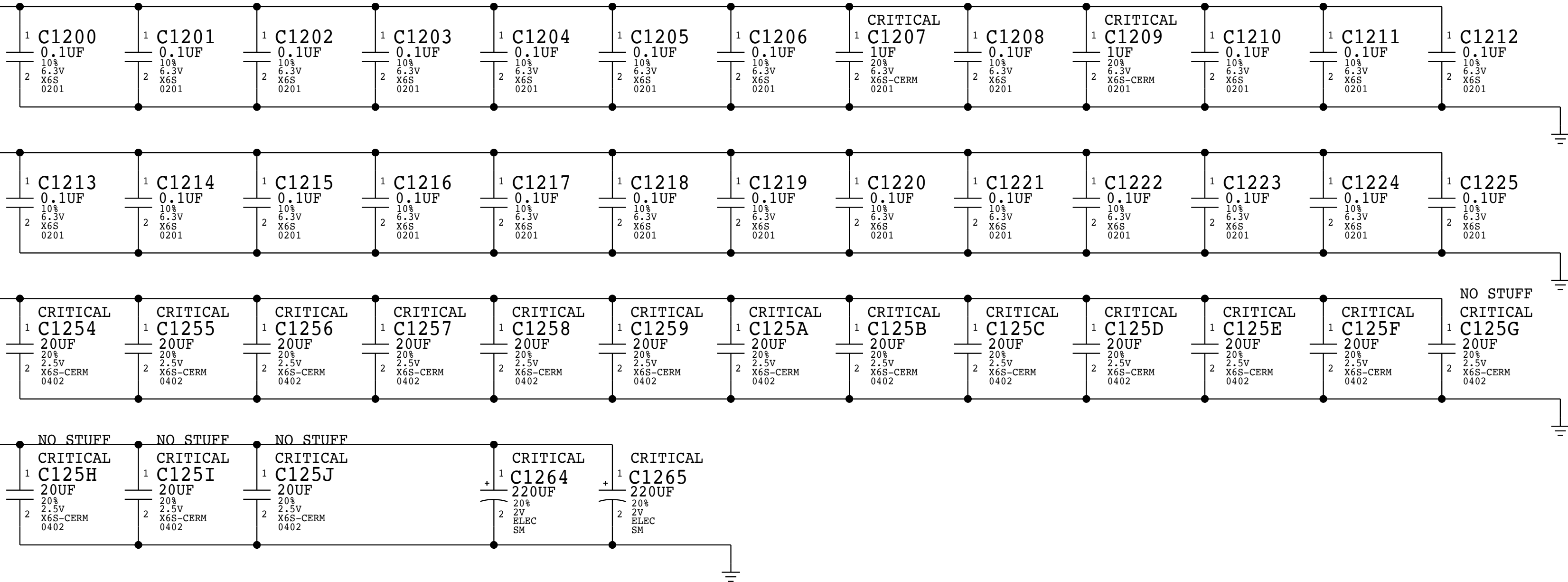
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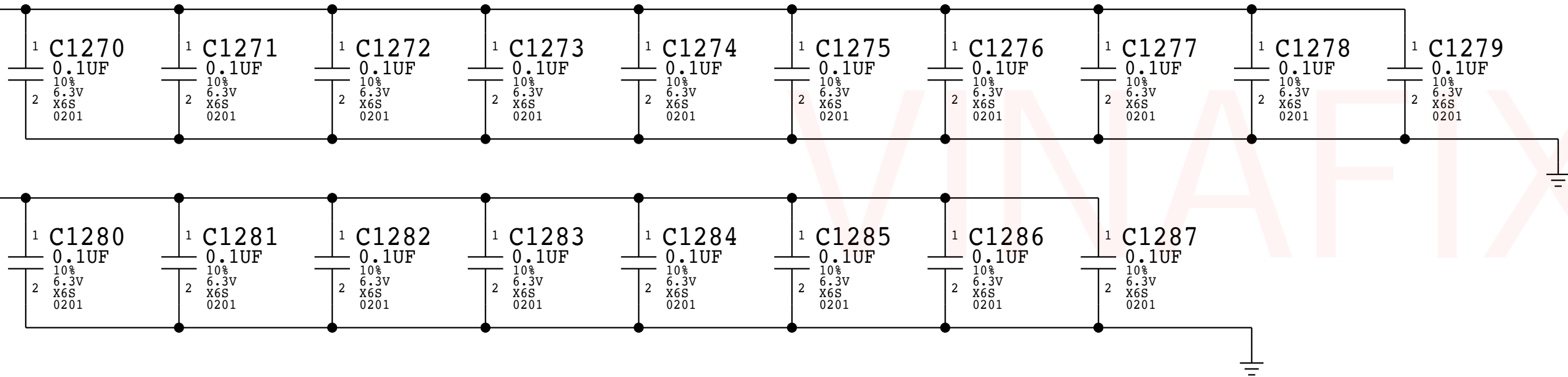
CPU GT Decoupling

Intel implementation (#561280, Table 49-2): 12x 0.1uF 0201, 2x 1uF 0402, 9x 47uF 0805
Apple implementation: 24x 0.1uF 0201, 2x 1uF 0201, 10x 20uF 0402 STUFF (6x NOSTUFF), 2x 220uF D1 STUFF

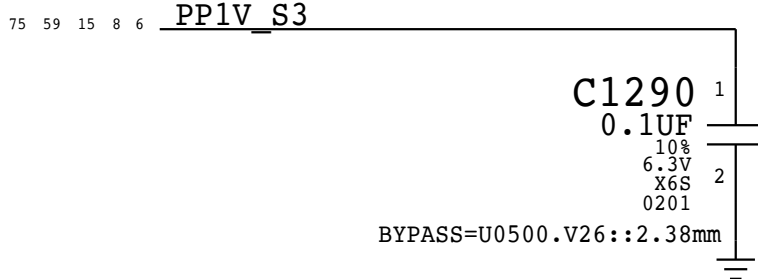


CPU VDDQ DECOUPLING

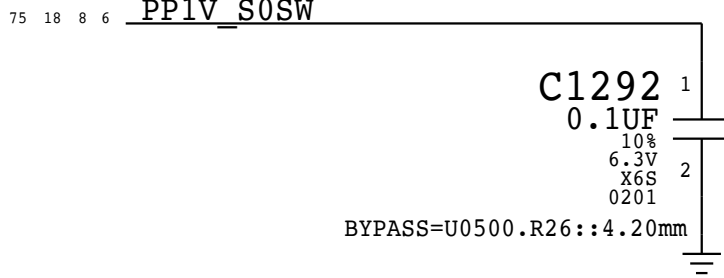
Intel implementation (#561280, Table 49-2): 18x 0.1uF 0201
Apple implementation: 18x 0.1uF 0201



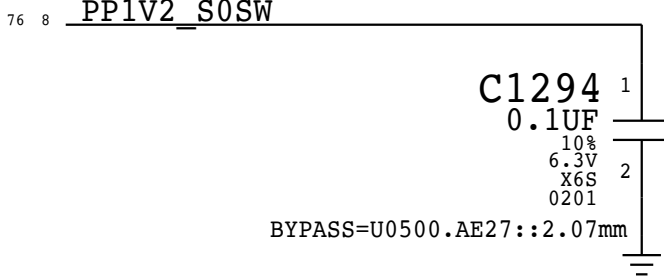
CPU VCCST BYPASS
(CPU 1.0V SUSTAIN PWR)



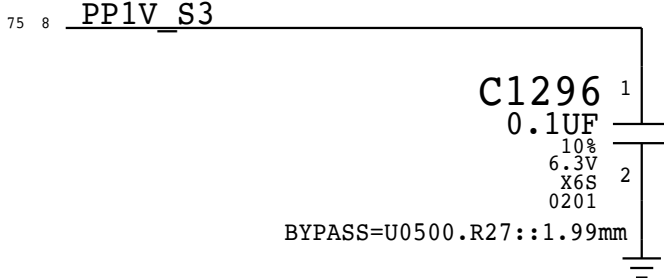
CPU VCCSTG BYPASS
(CPU 1.0V SUSTAIN GATED PWR)




CPU VCCPLL_OC BYPASS
(CPU 1.2V PLL PWR)



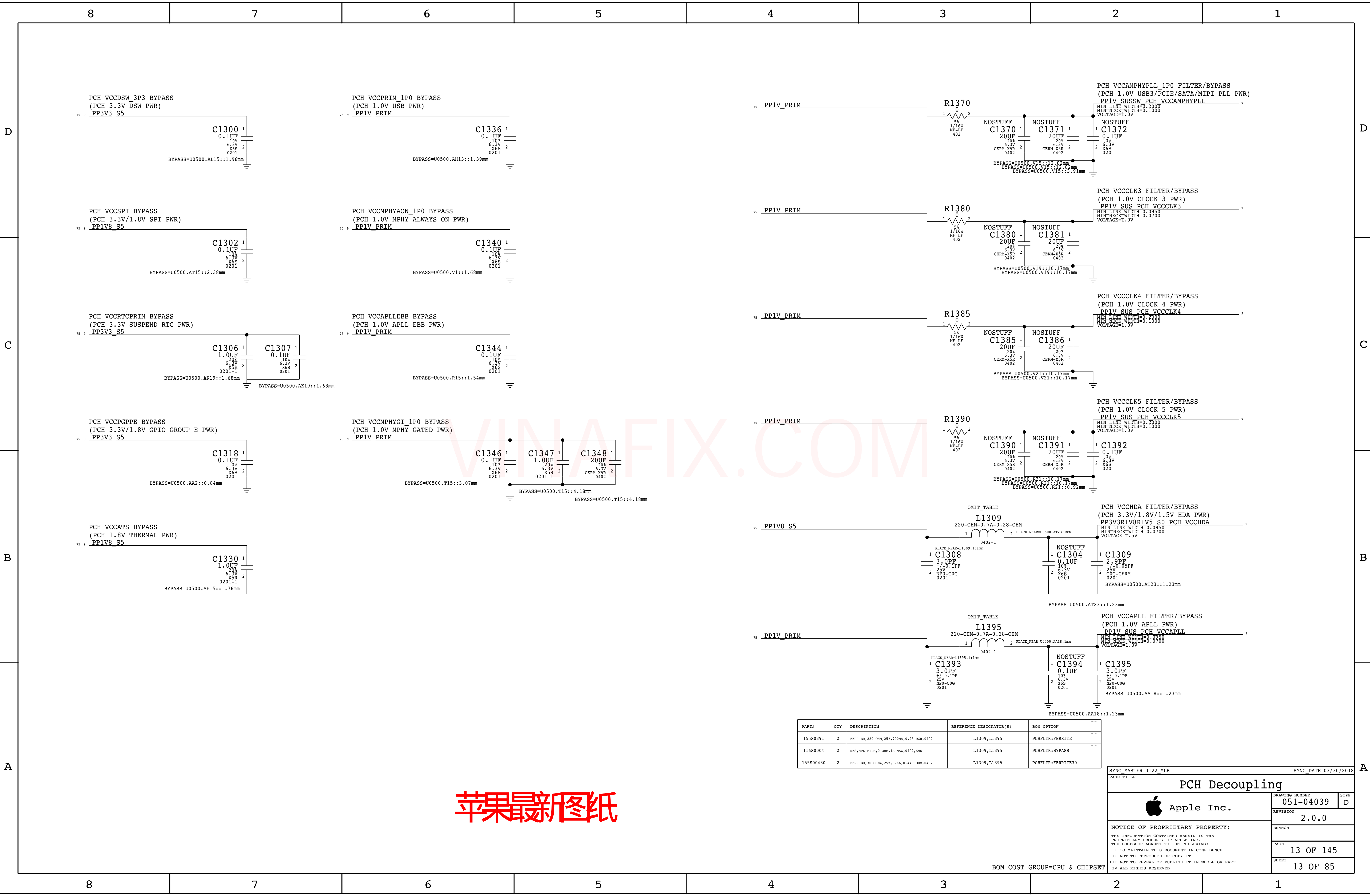
CPU VCCPLL BYPASS
(CPU 1.0V DIGITAL PLL PWR)



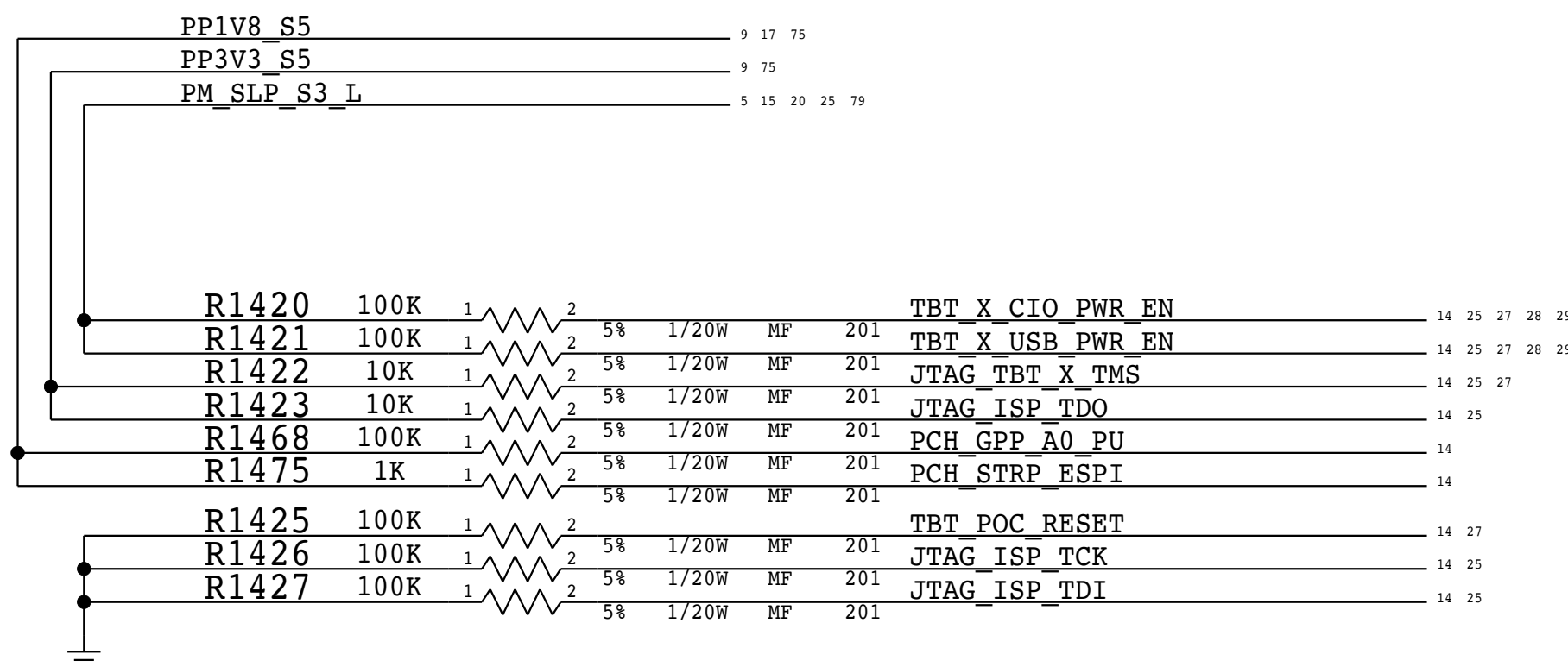
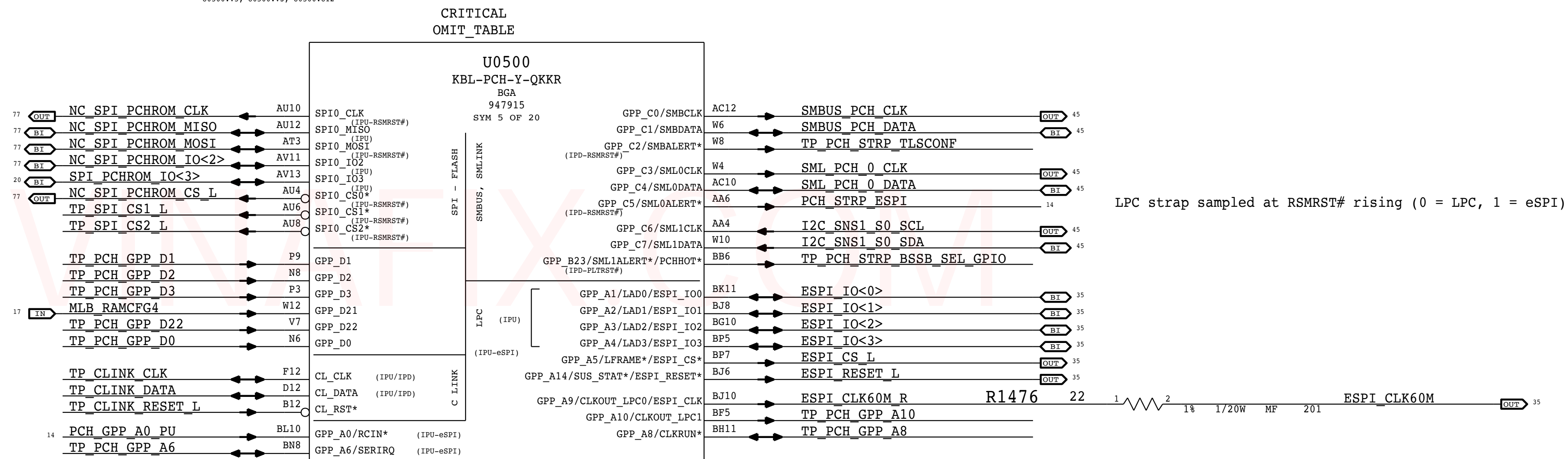
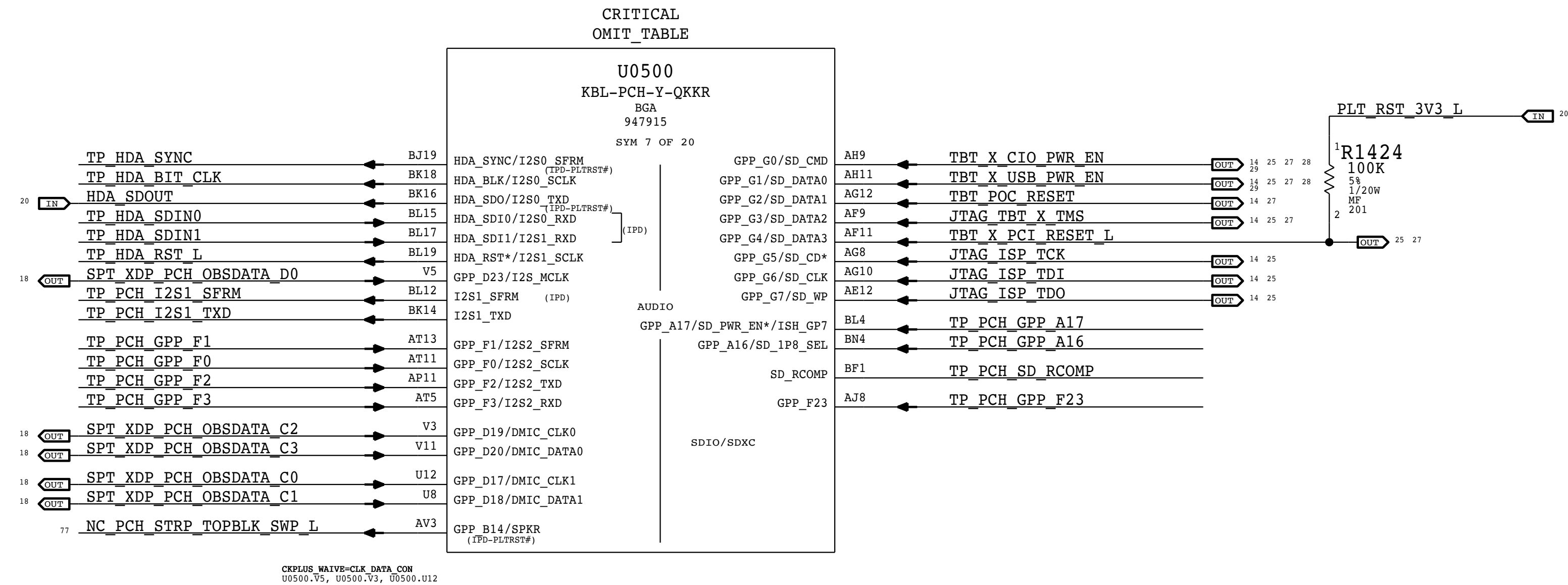
NOTE: Bypass calcs based on 0.1mm trace width with worst case stackup and 500pH added for power/ground via pair.


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CPU Decoupling 2		DRAWING NUMBER	
	Apple Inc.	051-04039	SIZE
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PCH Audio/LPC/SPI/SMBus			
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B

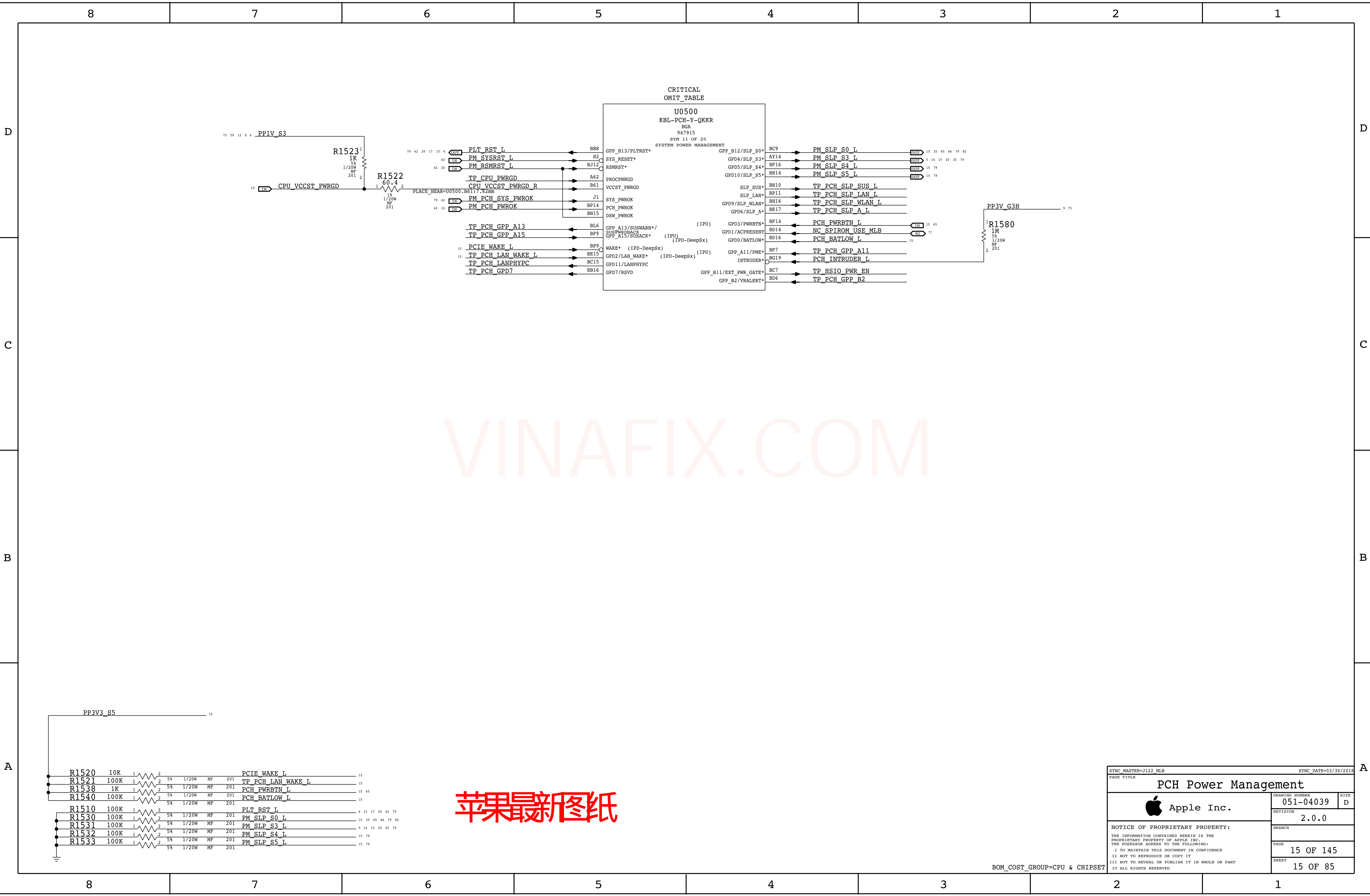
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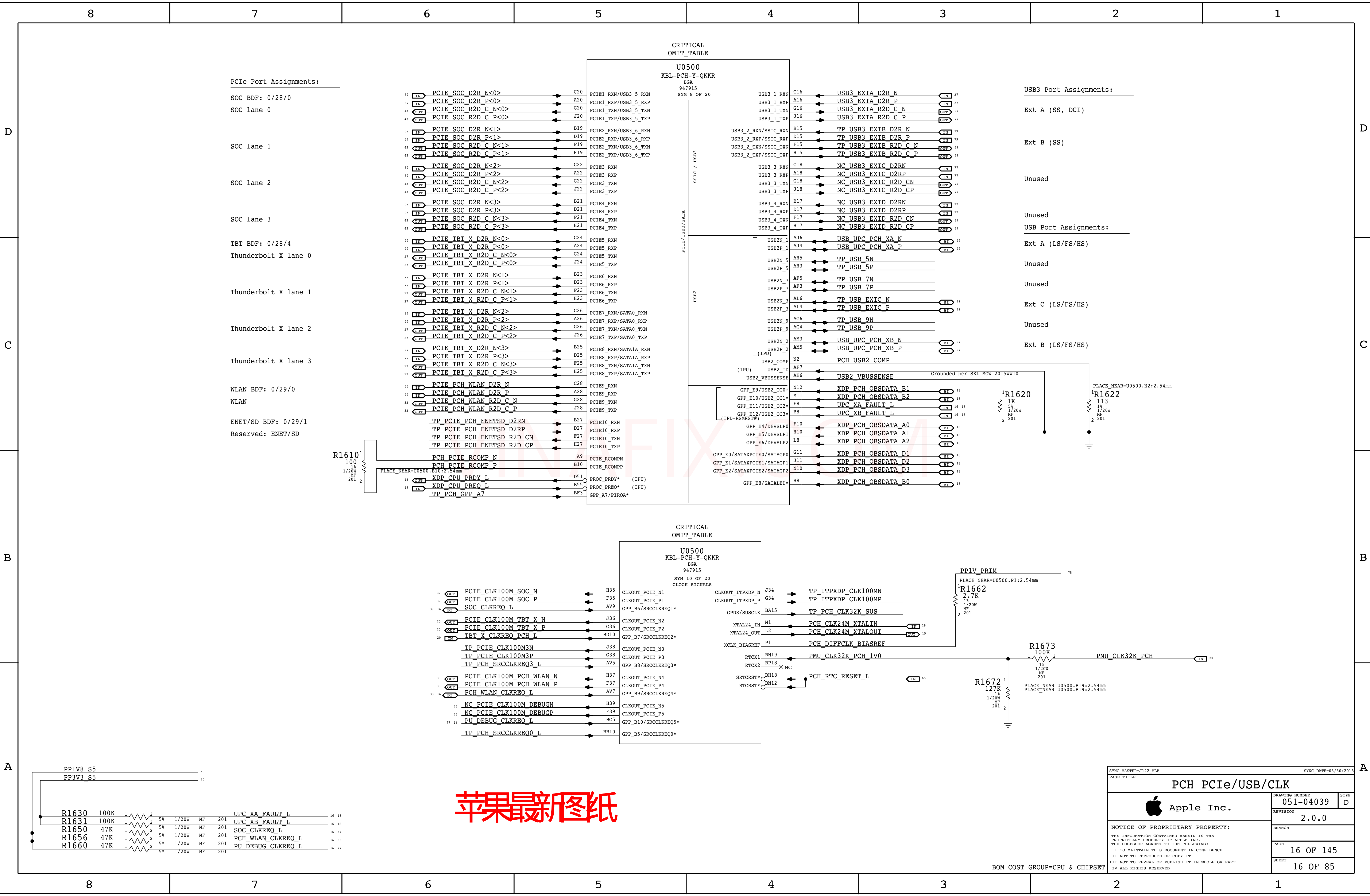
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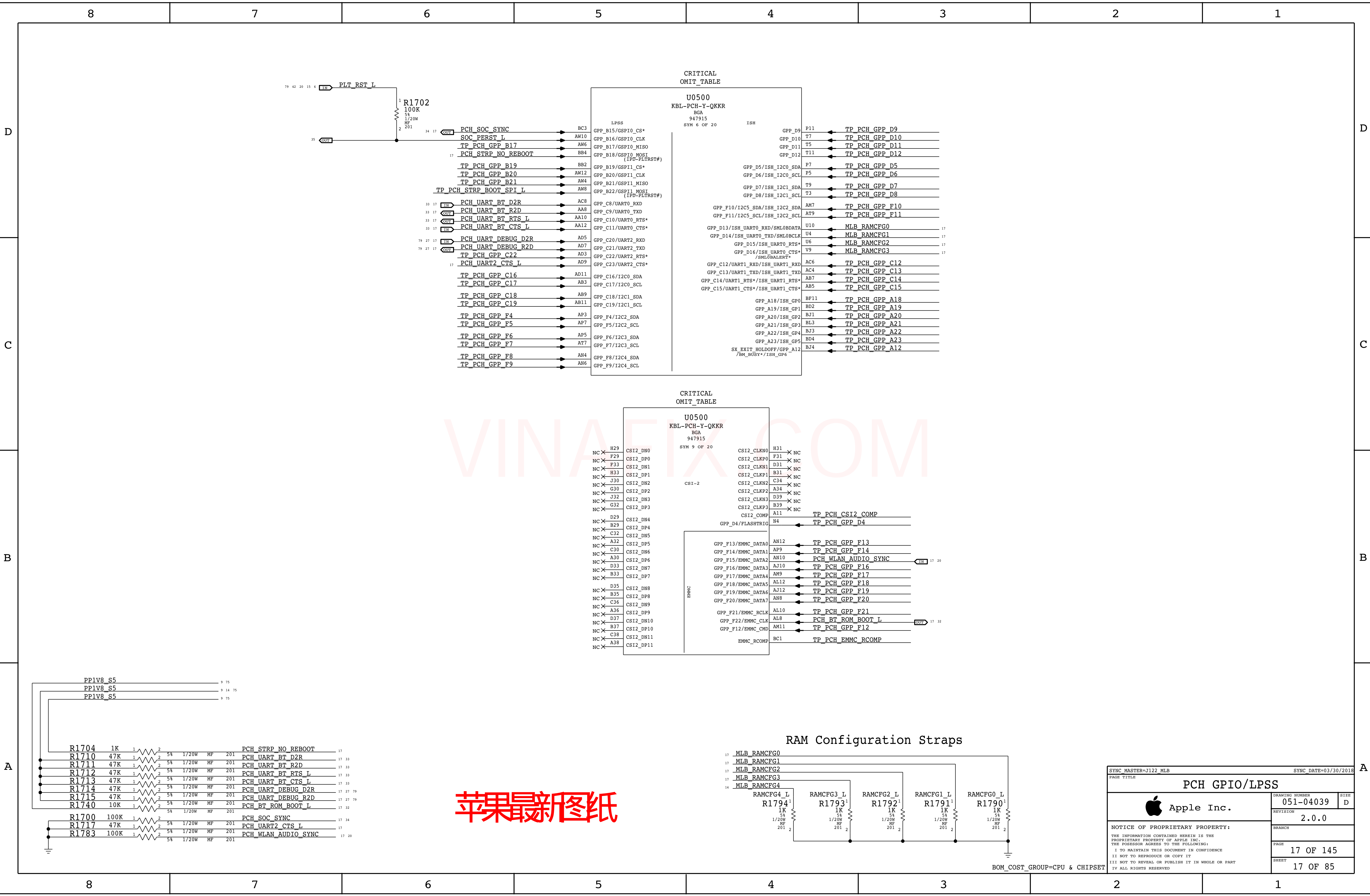
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PCH Power Management			
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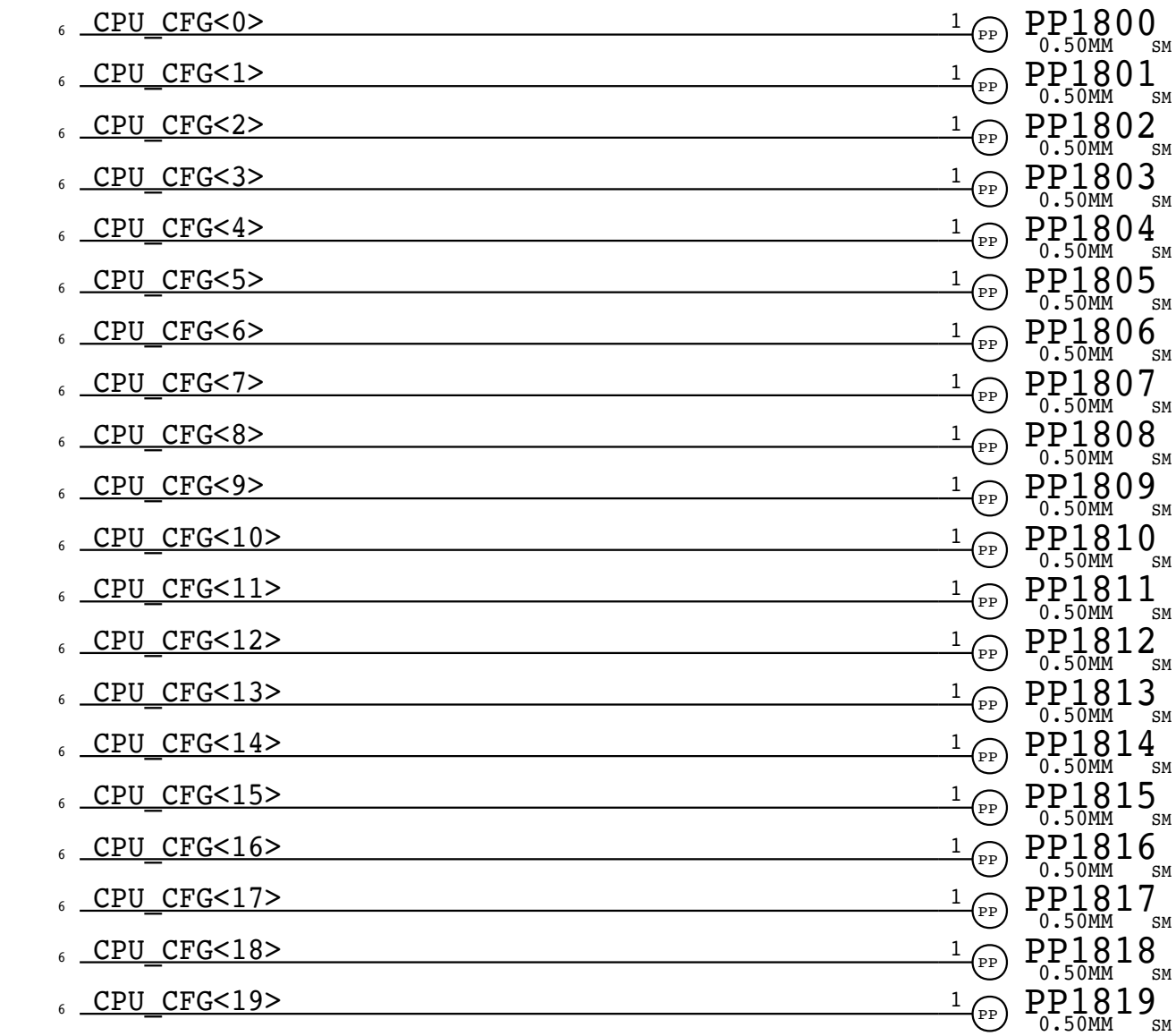
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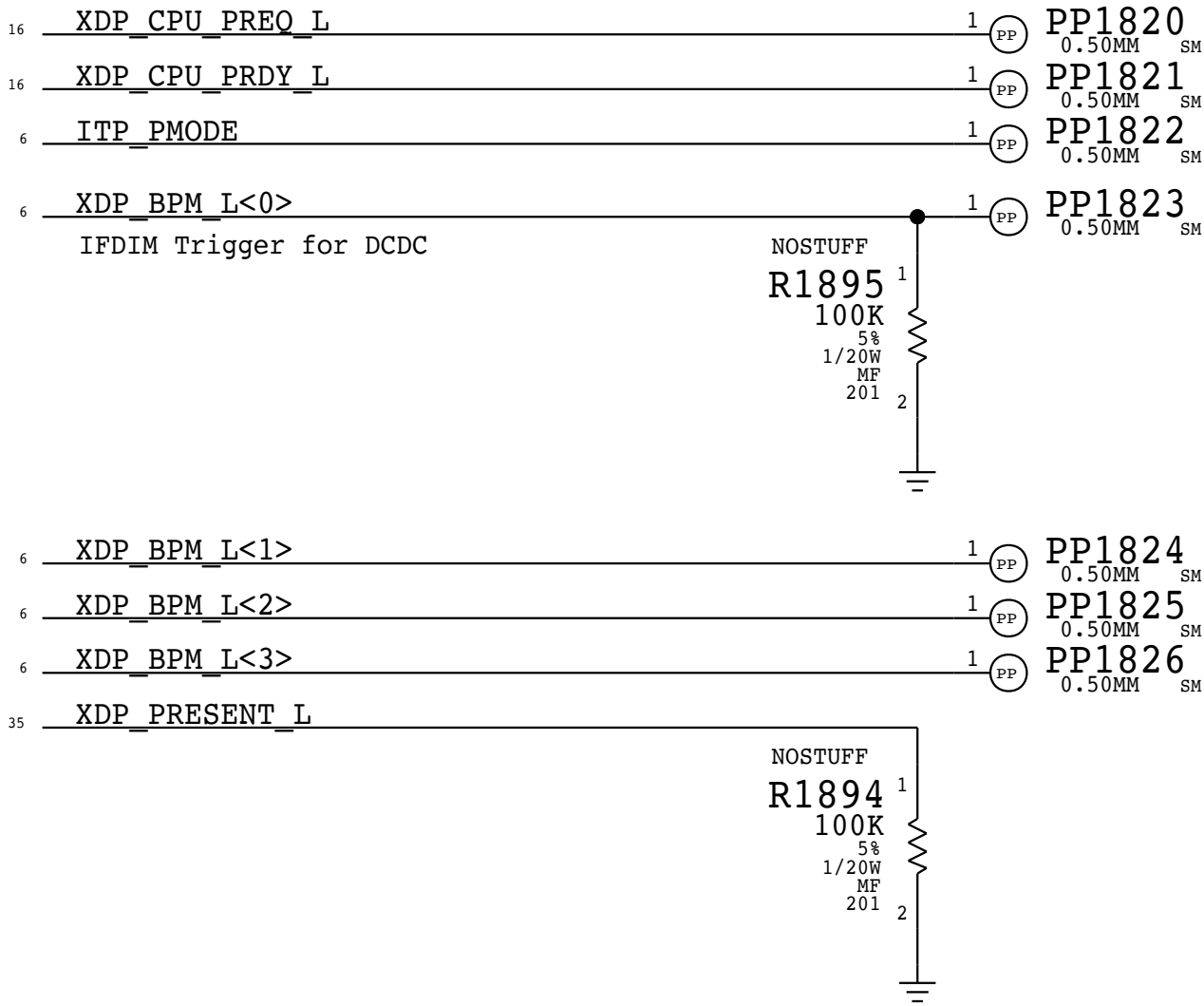
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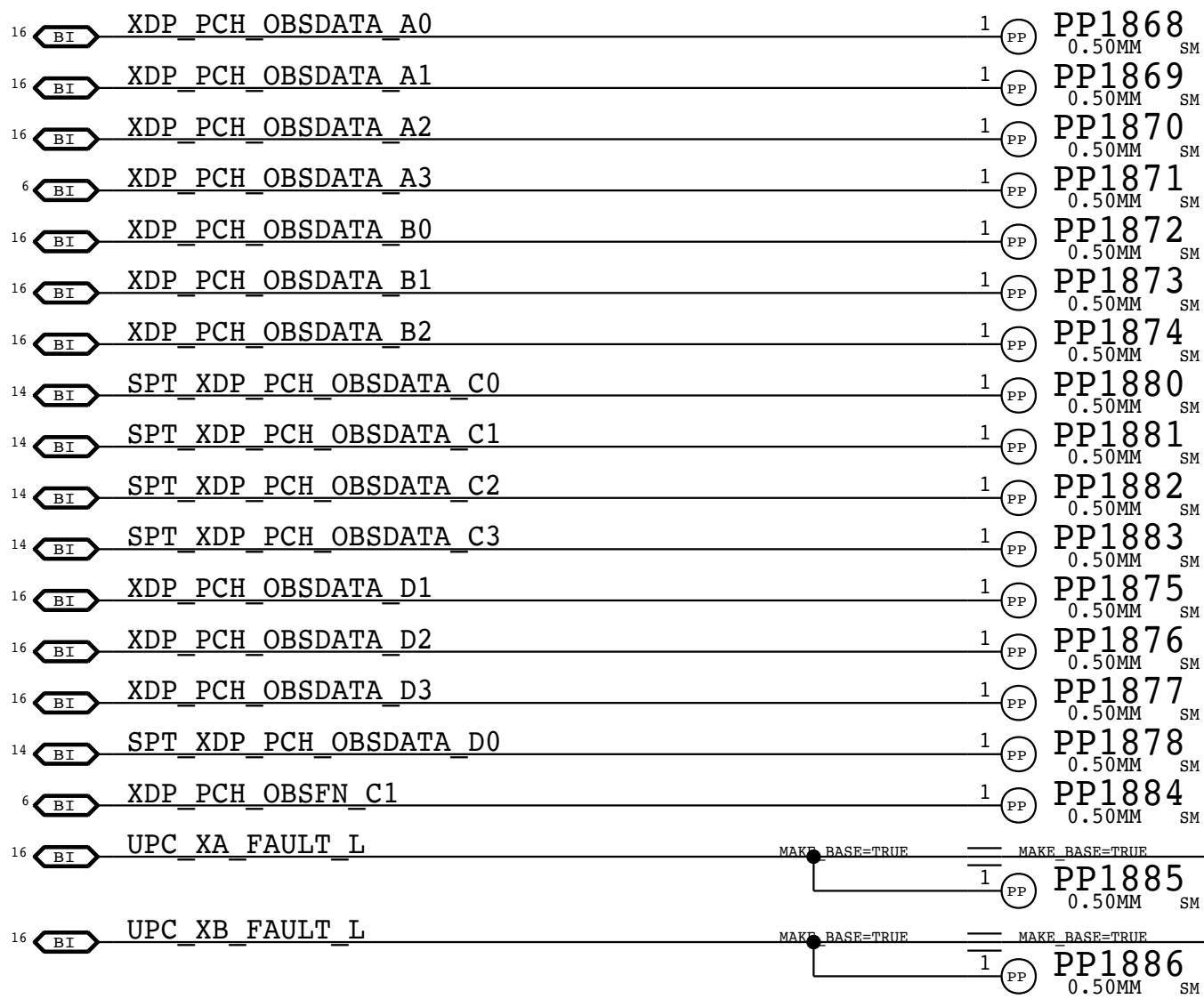
TP XDP Signals



PCH XDP Signals

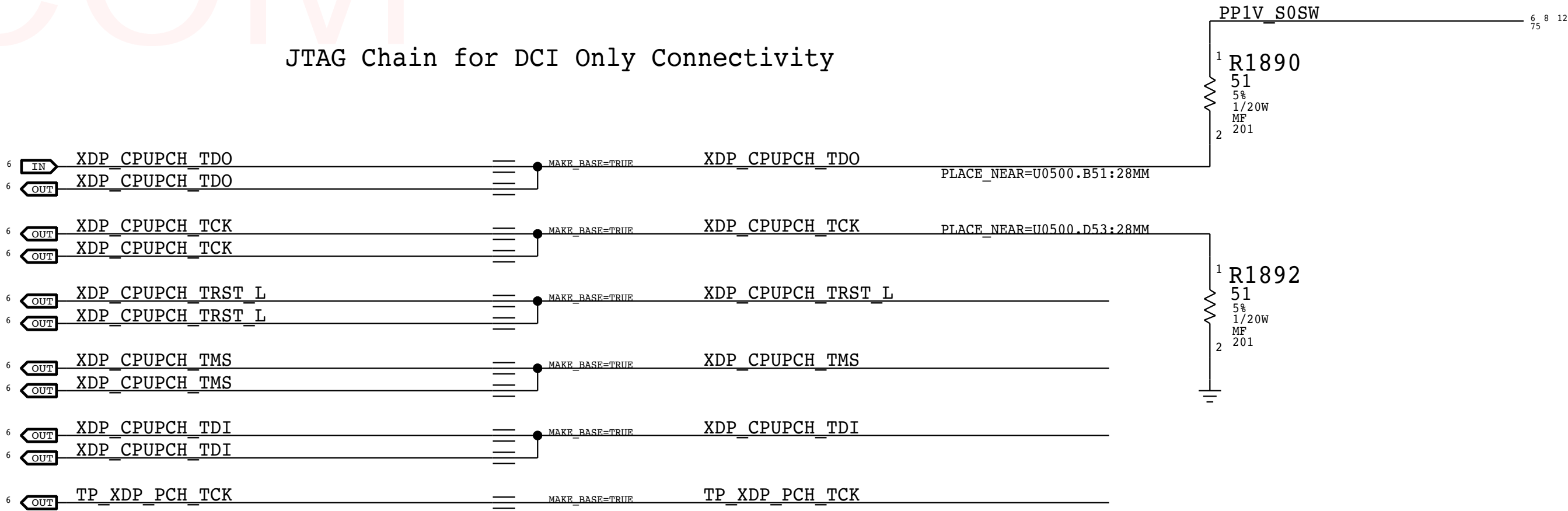
These signals do not connect to the Primary (Merged) XDP connector in this architecture because it does not exist. The PDG puts them on a secondary XDP connector that is only needed in some PCH debugging situation, but also does not exist. They are listed here to show their secondary XDP functions and to provide test points for signals that are not used elsewhere. Unused GPIOs have TPs.

PCH/XDP Signals




Non-XDP Signals

JTAG Chain for DCI Only Connectivity



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BOM_COST_GROUP=DEBUG

SYNC_MASTER=X589_CPU_CNL_Y			SYNC_DATE=03/13/2017			
PAGE TITLE						
CPU/PCH Merged XDP						
 Apple Inc.			DRAWING NUMBER		SIZE	
			051-04039		D	
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			BRANCH			
			PAGE		18 OF 145	
			SHEET		18 OF 85	

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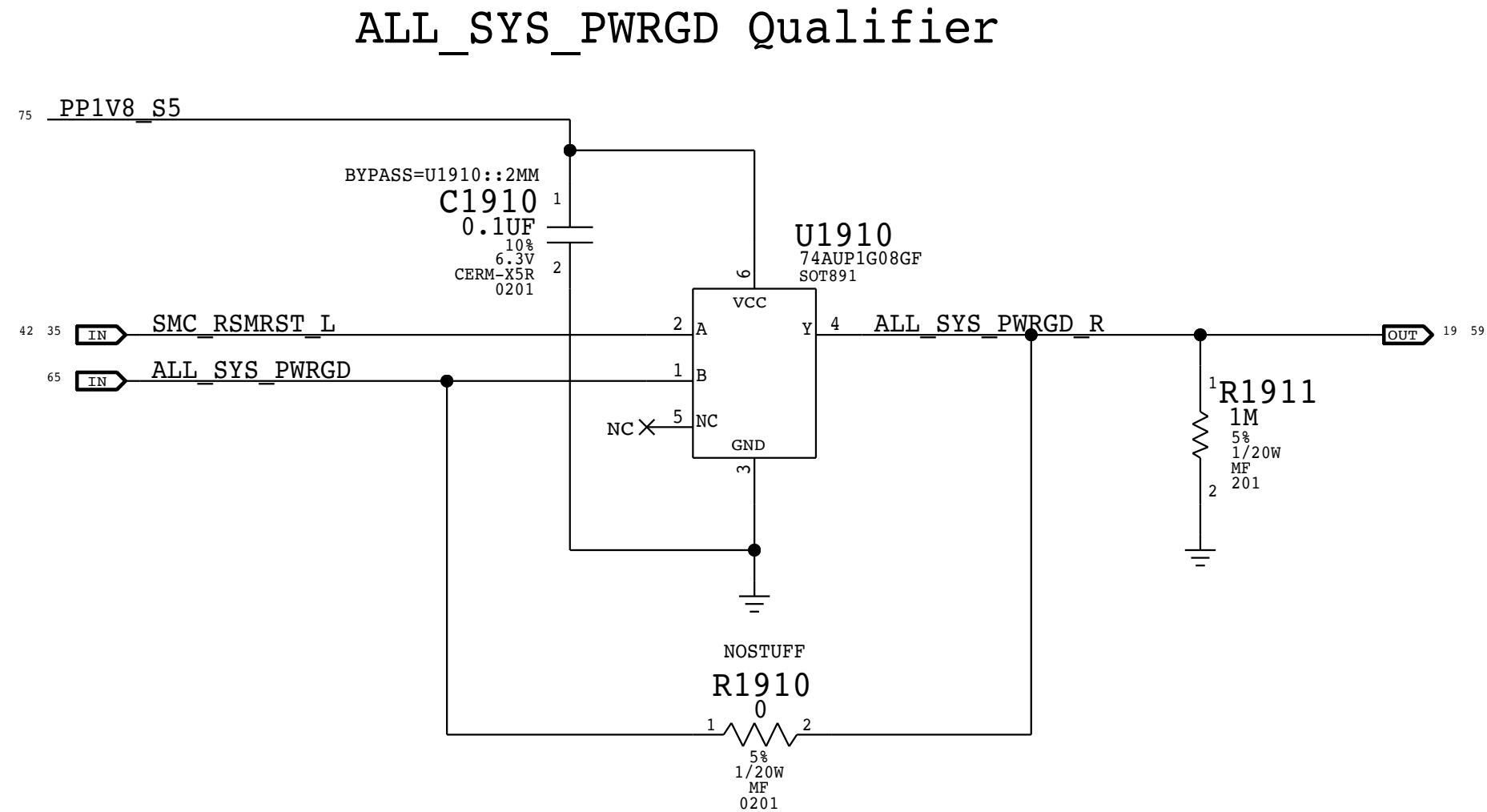
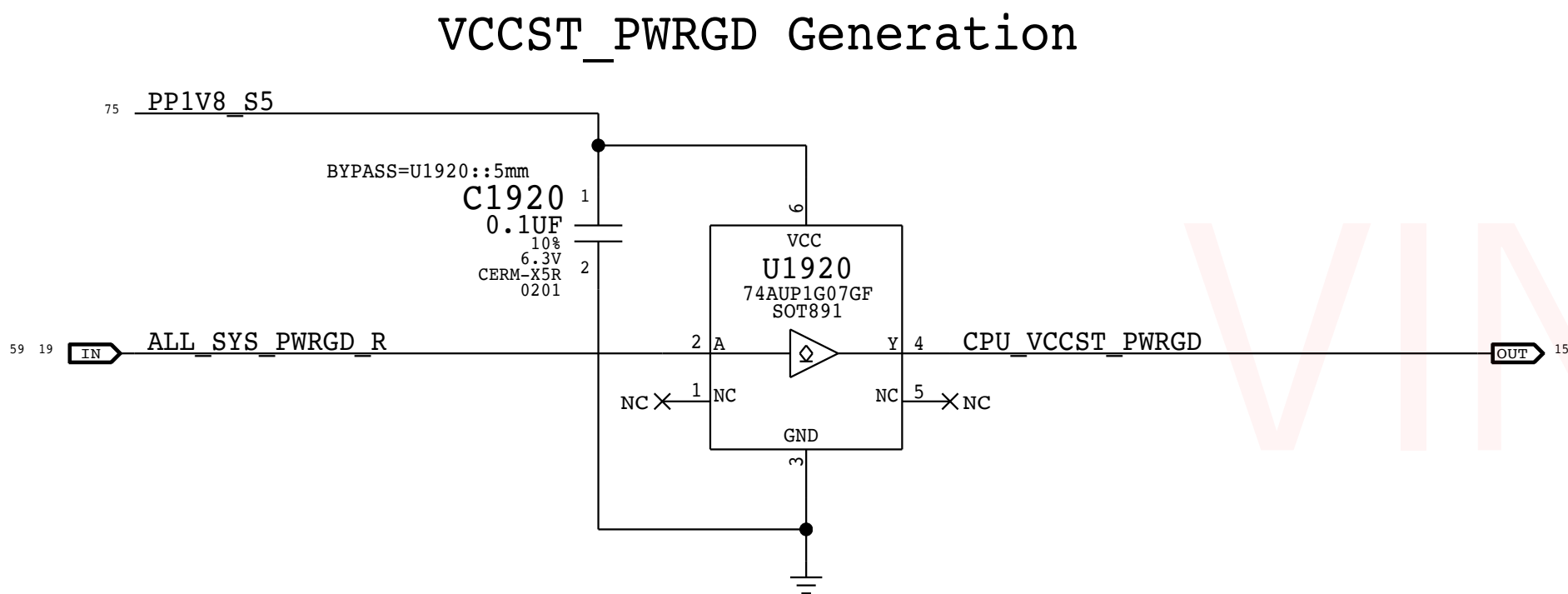
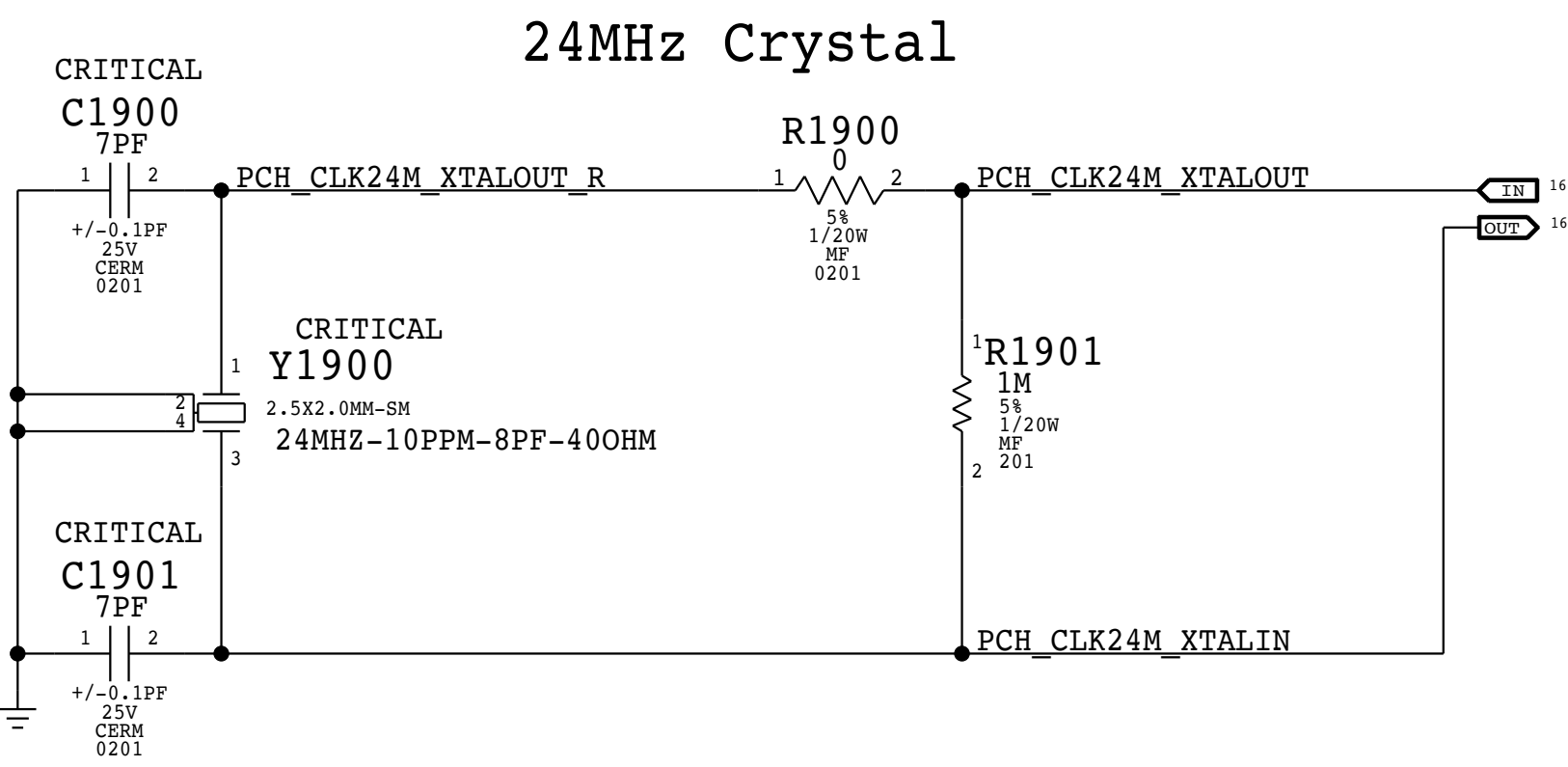
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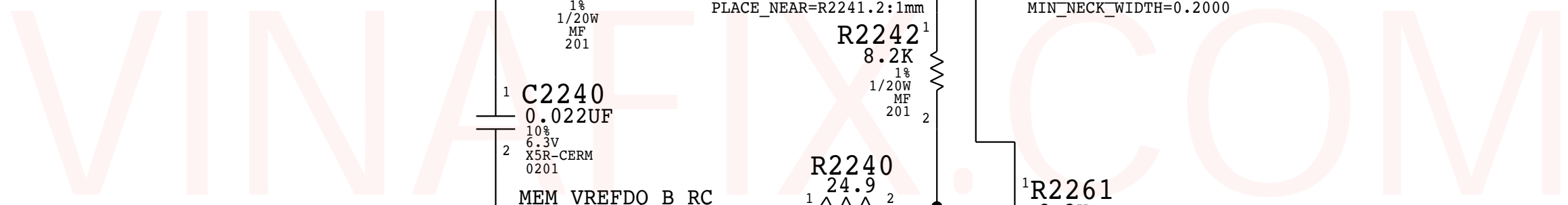
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			PAGE	19 OF 145	
			SHEET	19 OF 85	

[illegible]

PLACE_NEAR=R2241, 2, 2:1mm

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1/20W
M
201

R2242¹
8.2K

1/20W
MF
201


1 C2240
0.022UF

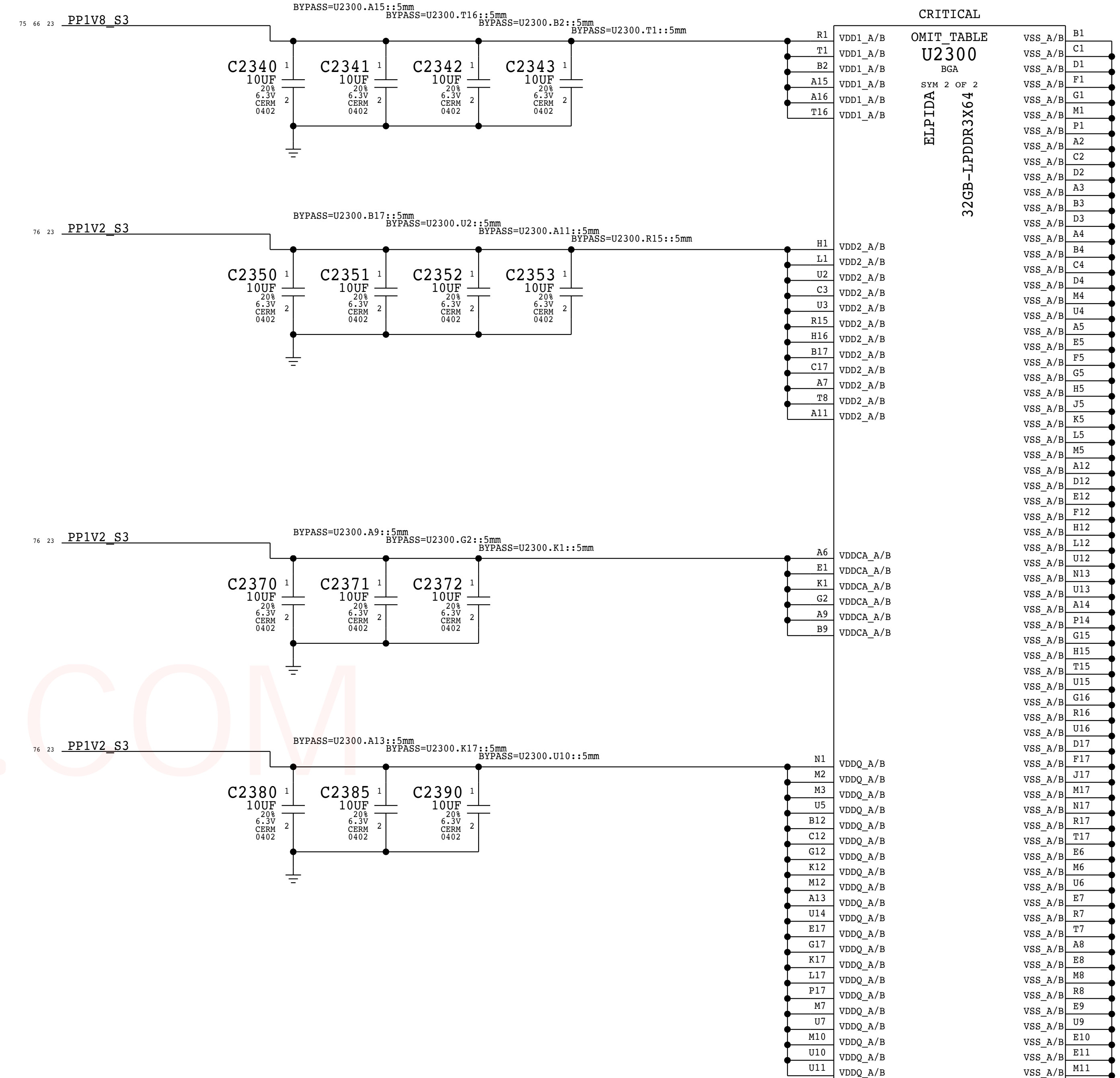
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
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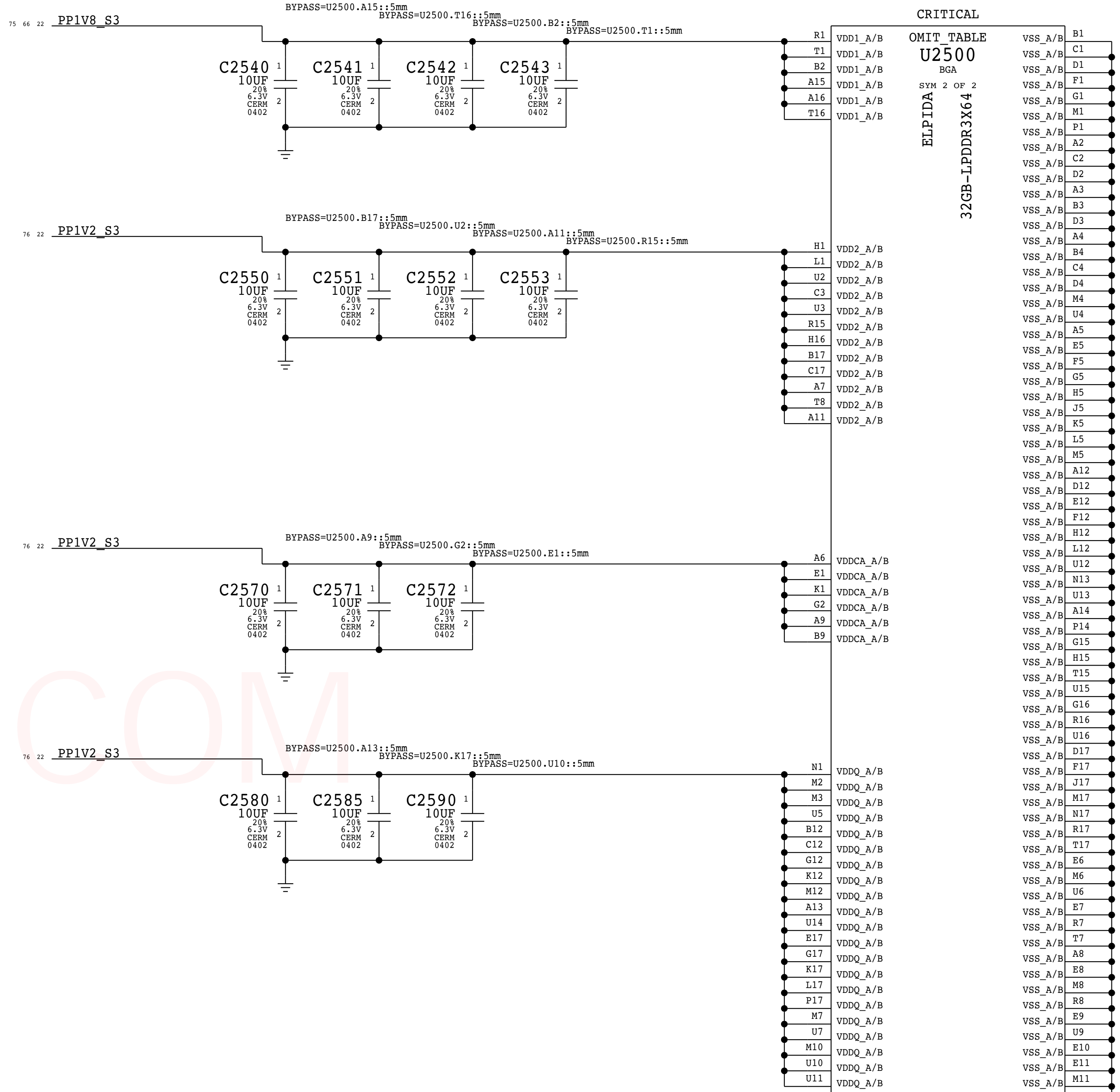
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
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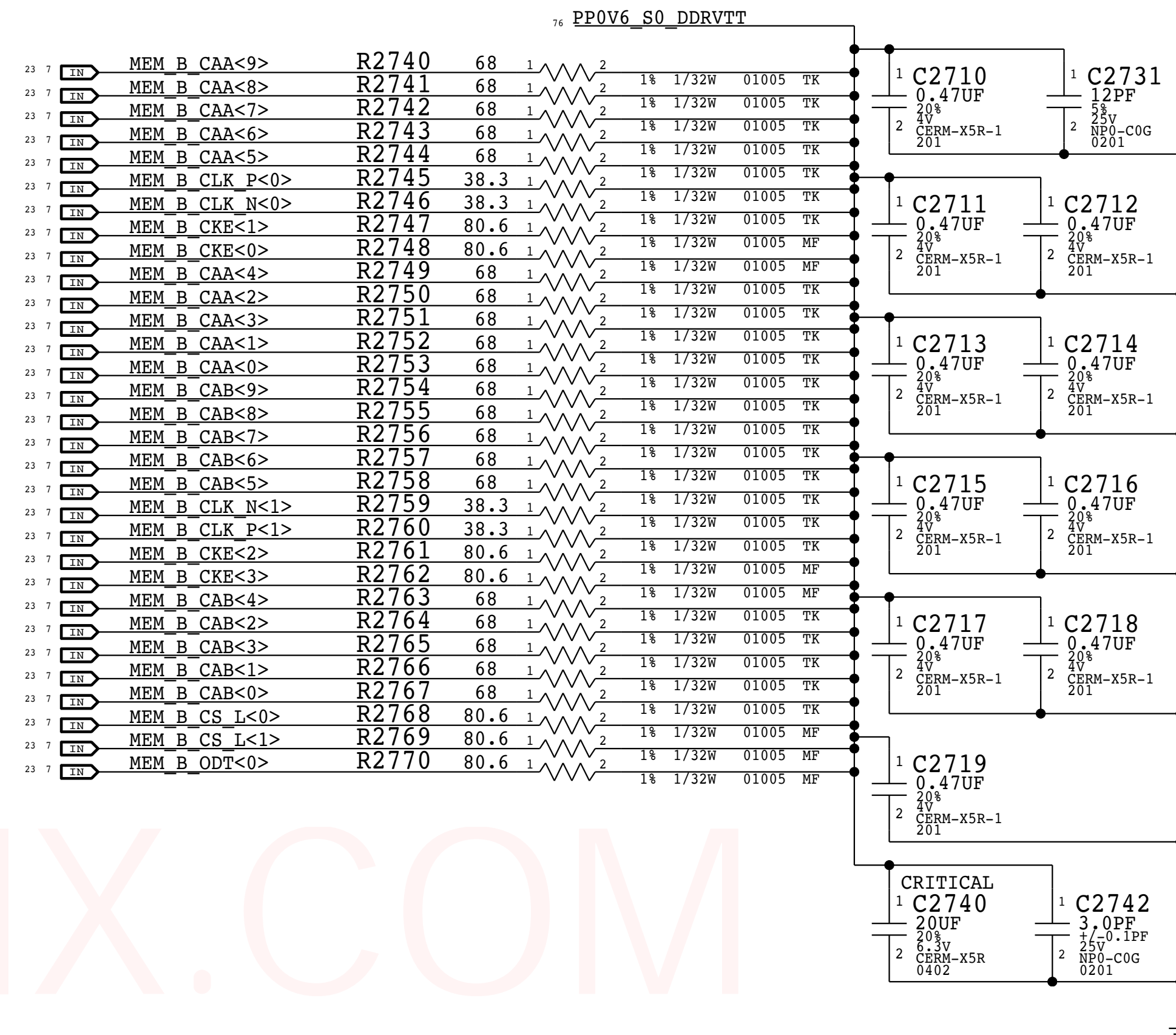
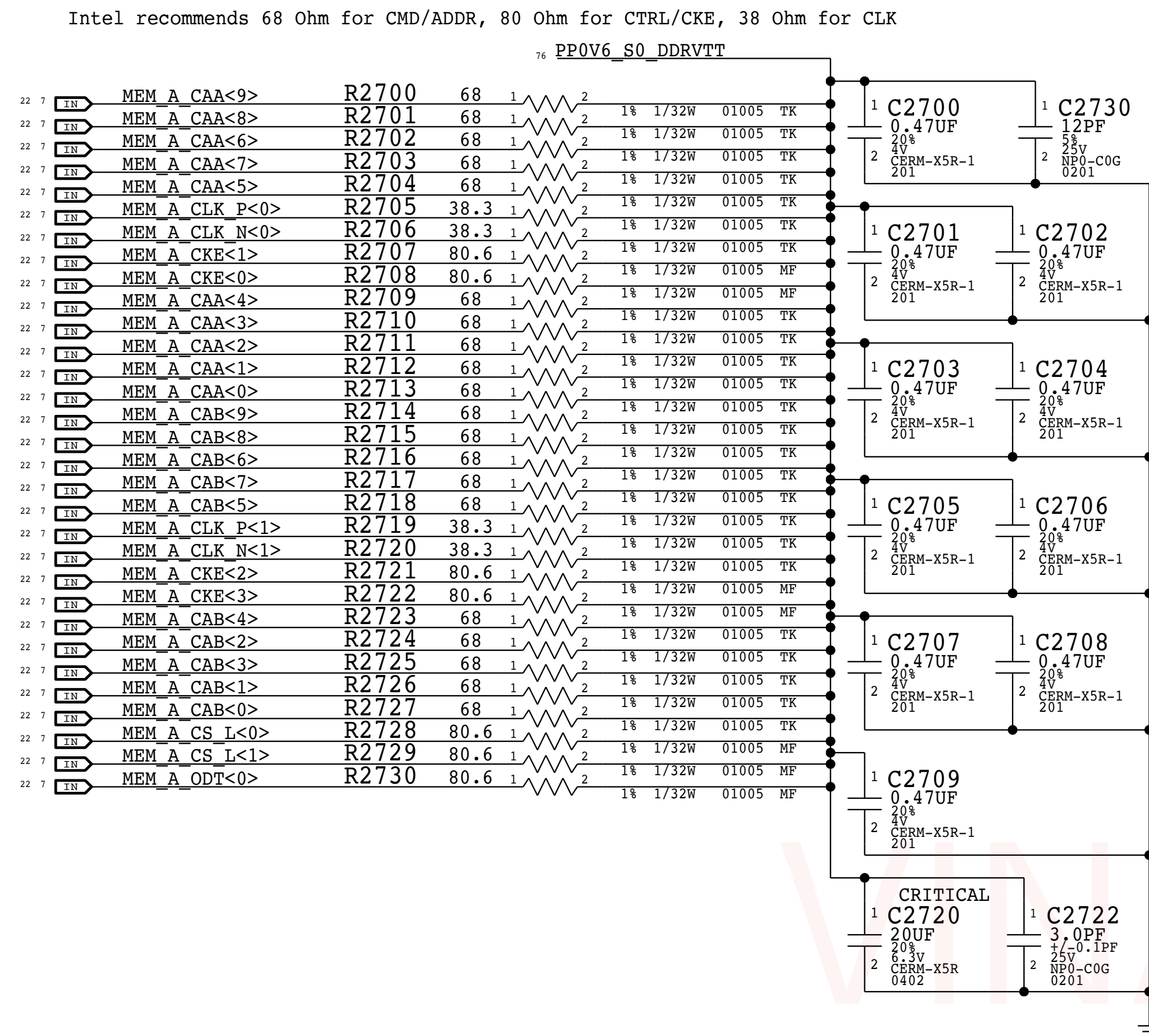
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SYNCS MASTER#J122 HLB		SYNCS DATE#03/30/2018	
PAGE TITLE			
LPDDR3 DRAM Channel A (0-63)			
 Apple Inc.	DRAWING NUMBER		SHEET
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		23 OF 145	
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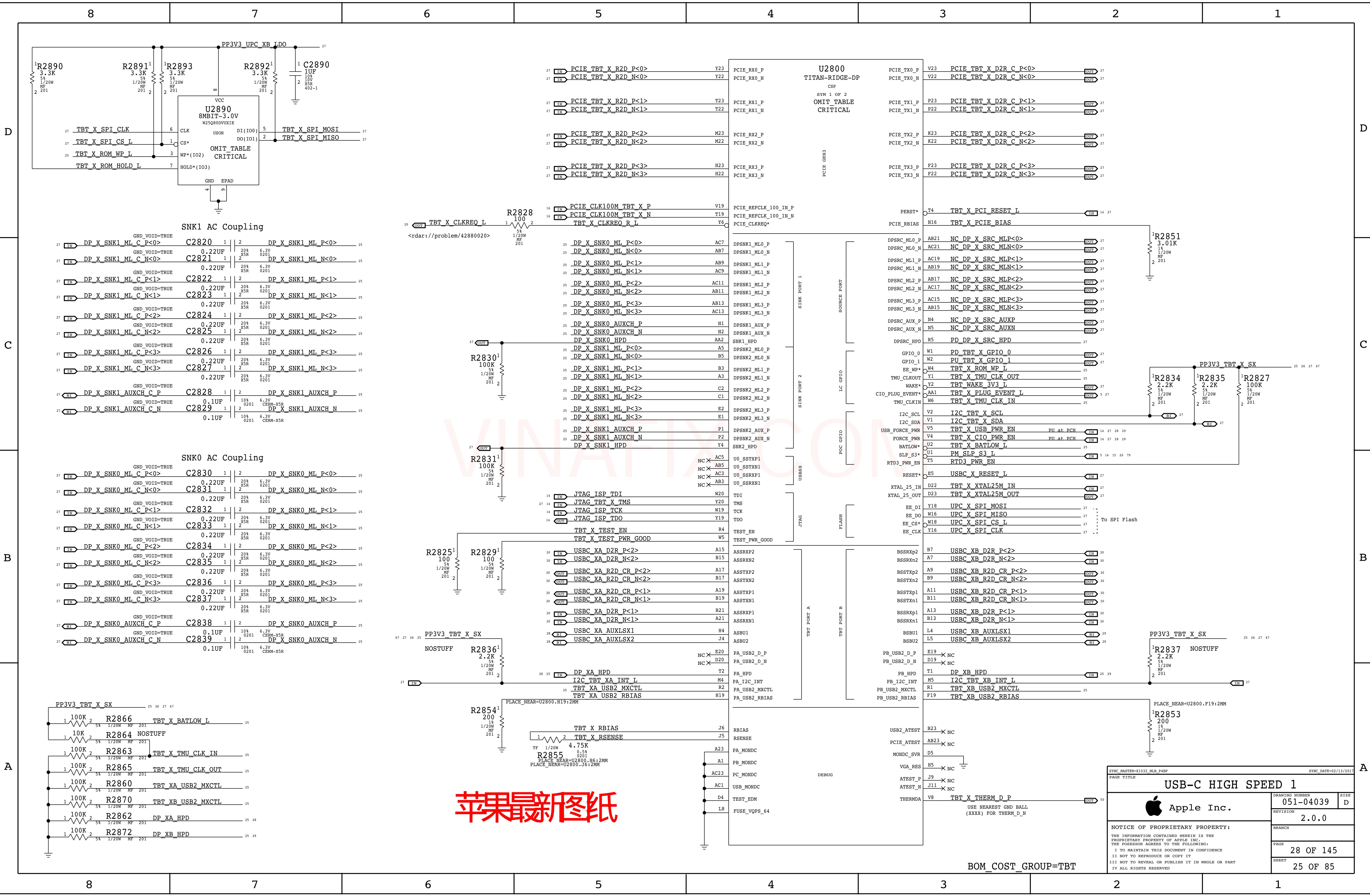
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		23 OF 85	



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SYNC_MASTER-T290_CARD_CPU_U	SYNC_DATE=04/06/2018																		
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BOM_COST_GROUP=DRAM




SYNC MASTER=X1032_MLB_P4BP

SYNC DATE=02/13/2017

PAGE TITLE

USB-C HIGH SPEED 1

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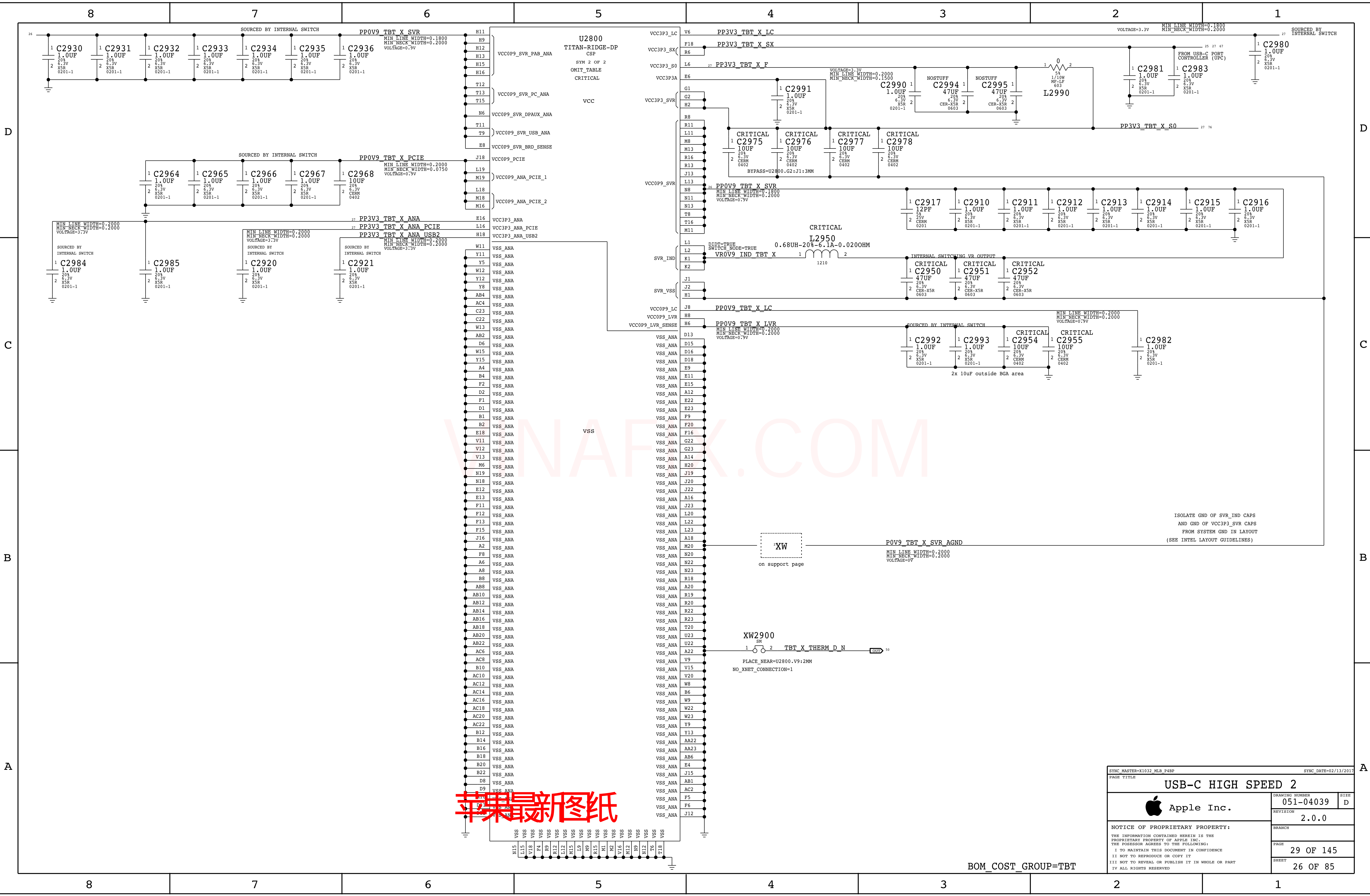
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		PAGE	29 OF 145
		SHEET	26 OF 85

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BOM_COST_GROUP=USB-C

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BOM_COST_GROUP=USB-C

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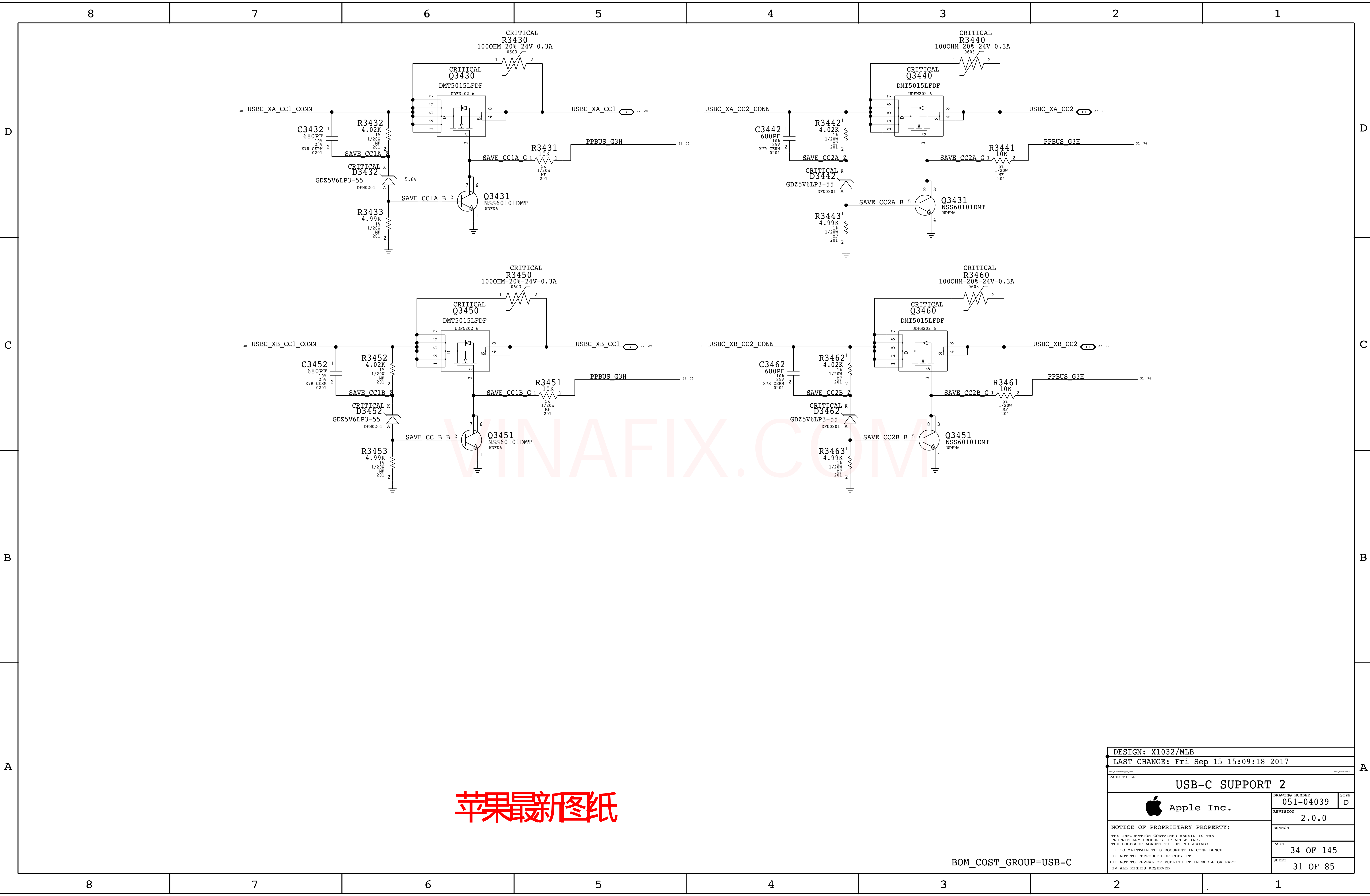
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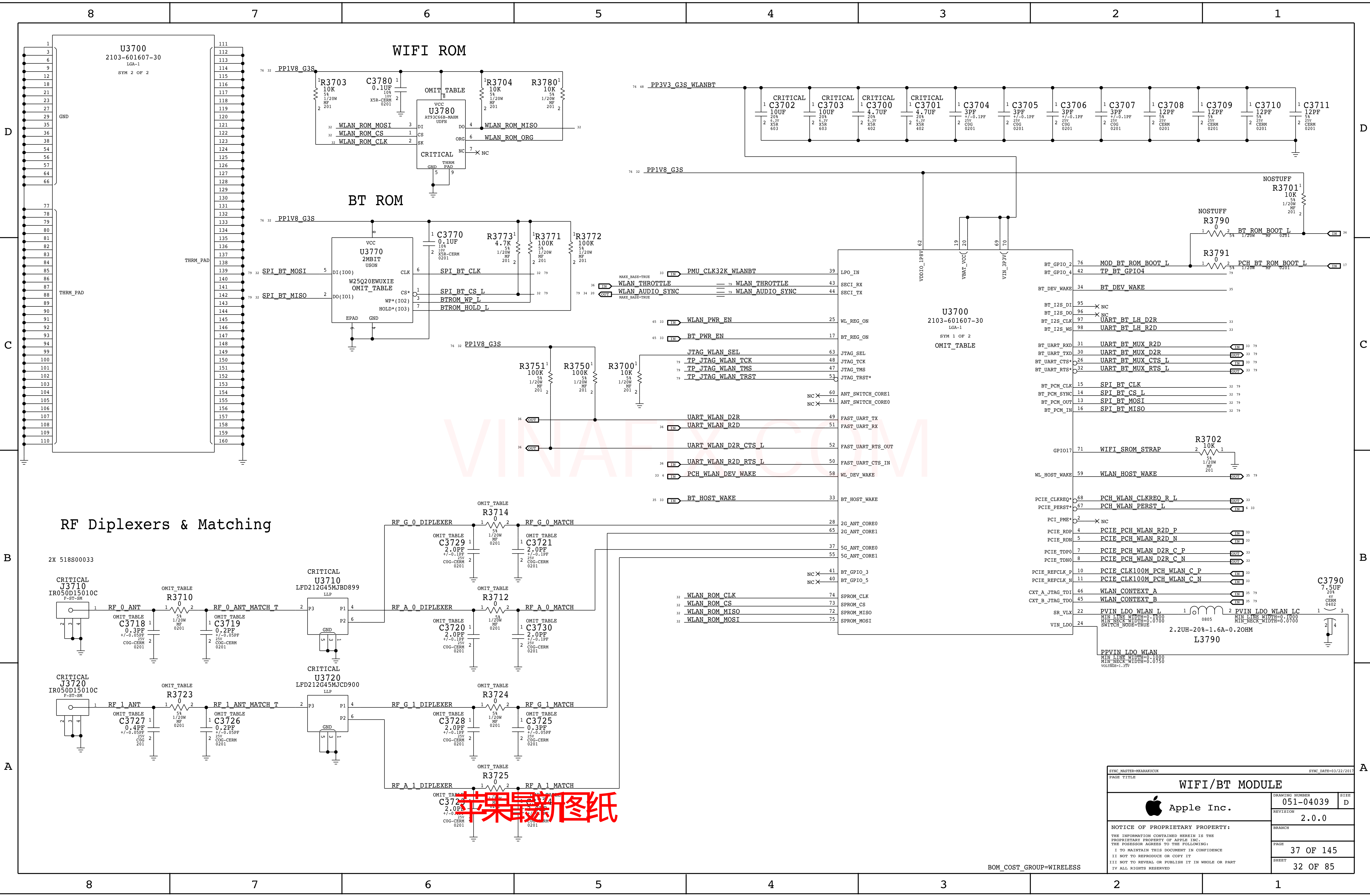
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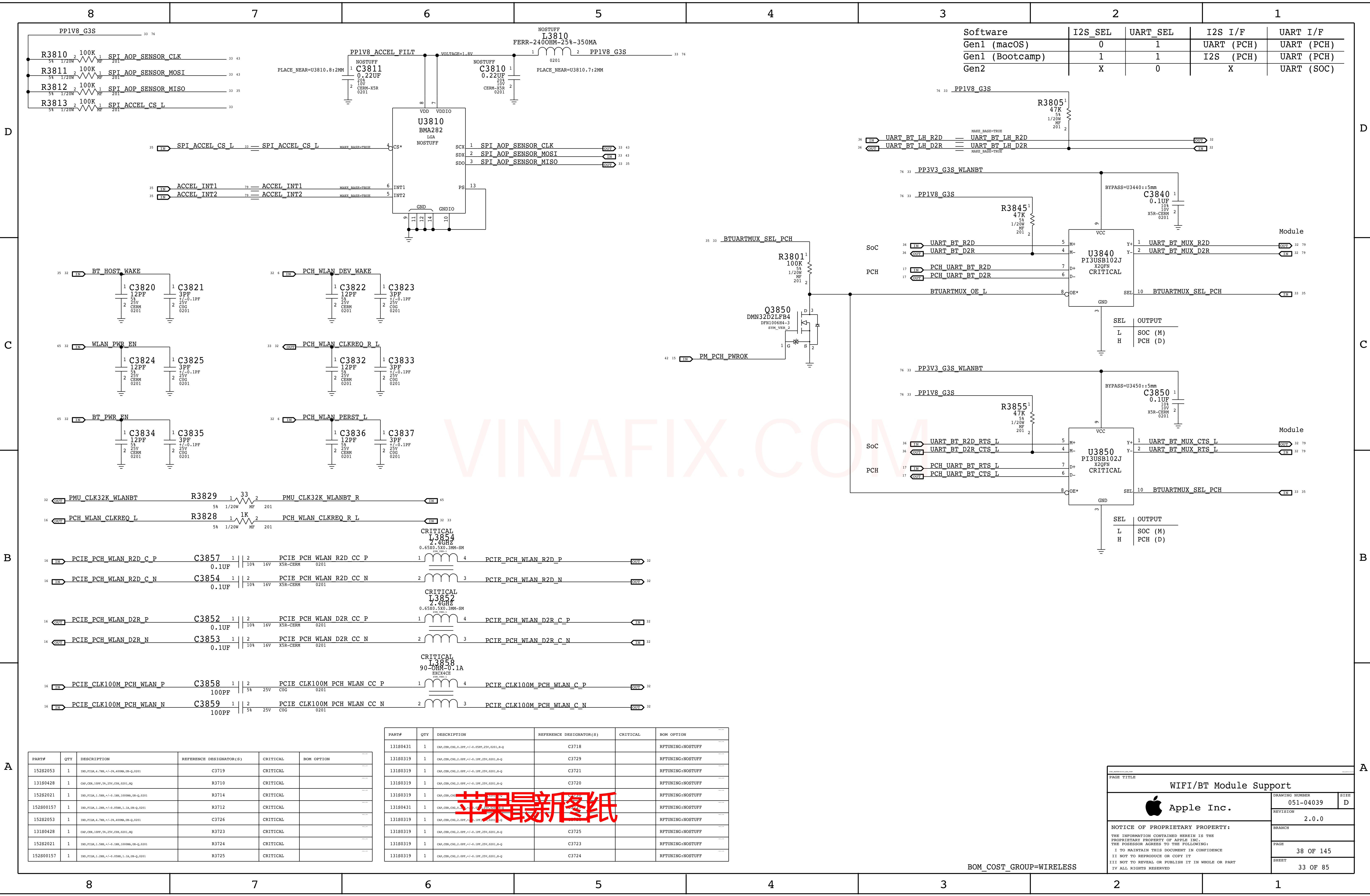
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LAST CHANGE: Fri Sep 15 15:09:18 2017			
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PAGE TITLE			
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 Apple Inc.	DRAWING NUMBER		STYLE
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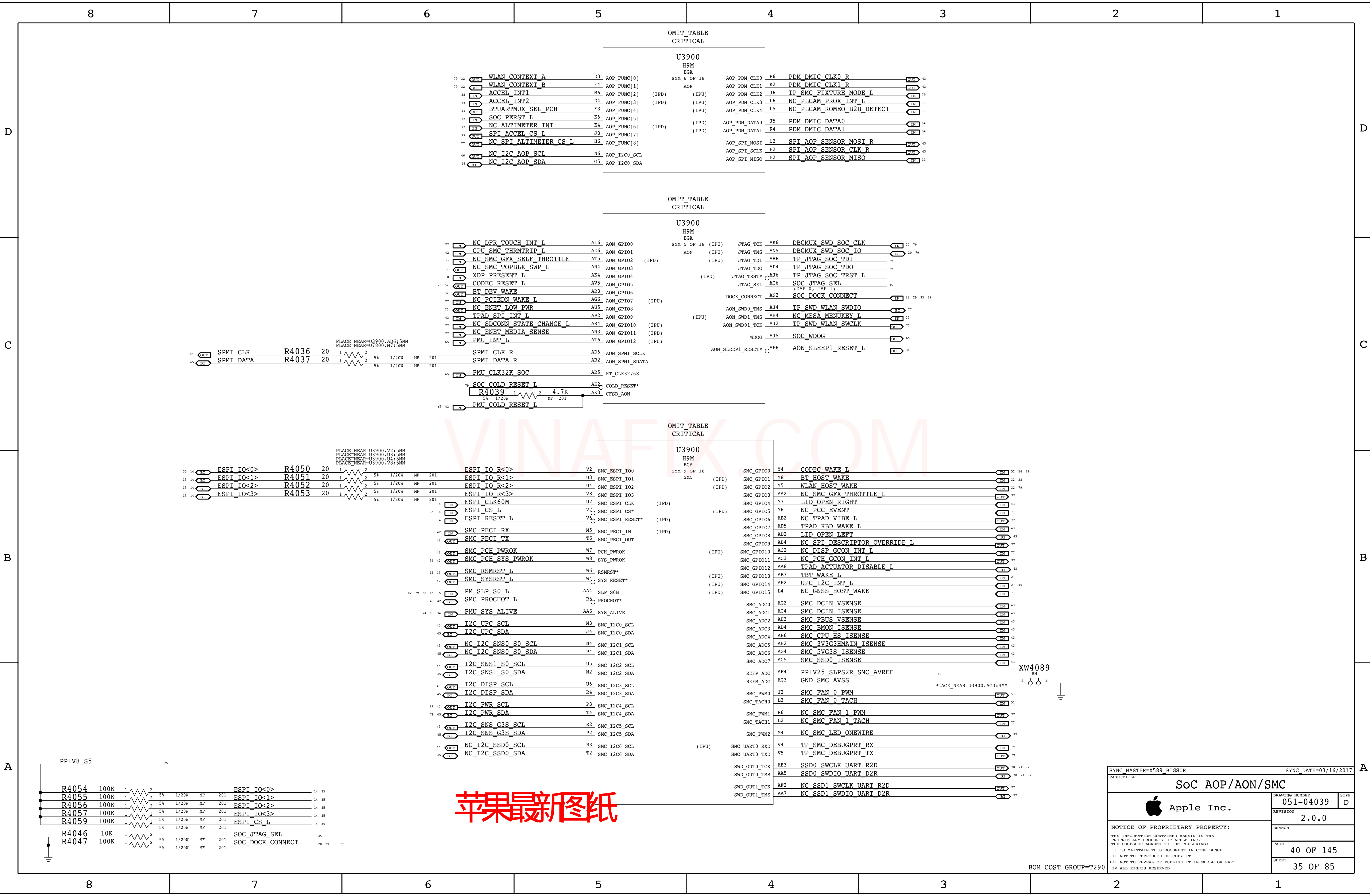
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13180428	1	CAP, CER, 100P, 5V, 25V, C0H, 0201, HQ	R3710	CRITICAL	
15282021	1	IND, FID, 1.58H, +/-0.18H, 1000H, 0H-Q, 0201	R3714	CRITICAL	
152800157	1	IND, FID, 1.28H, +/-0.058H, 1.1A, 0H-Q, 0201	R3712	CRITICAL	
15282053	1	IND, FID, 4.75H, +/-3%, 4000H, 0H-Q, 0201	C3726	CRITICAL	
13180428	1	CAP, CER, 100P, 5V, 25V, C0H, 0201, HQ	R3723	CRITICAL	
15282021	1	IND, FID, 1.58H, +/-0.18H, 1000H, 0H-Q, 0201	R3724	CRITICAL	
152800157	1	IND, FID, 1.28H, +/-0.058H, 1.1A, 0H-Q, 0201	R3725	CRITICAL	

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
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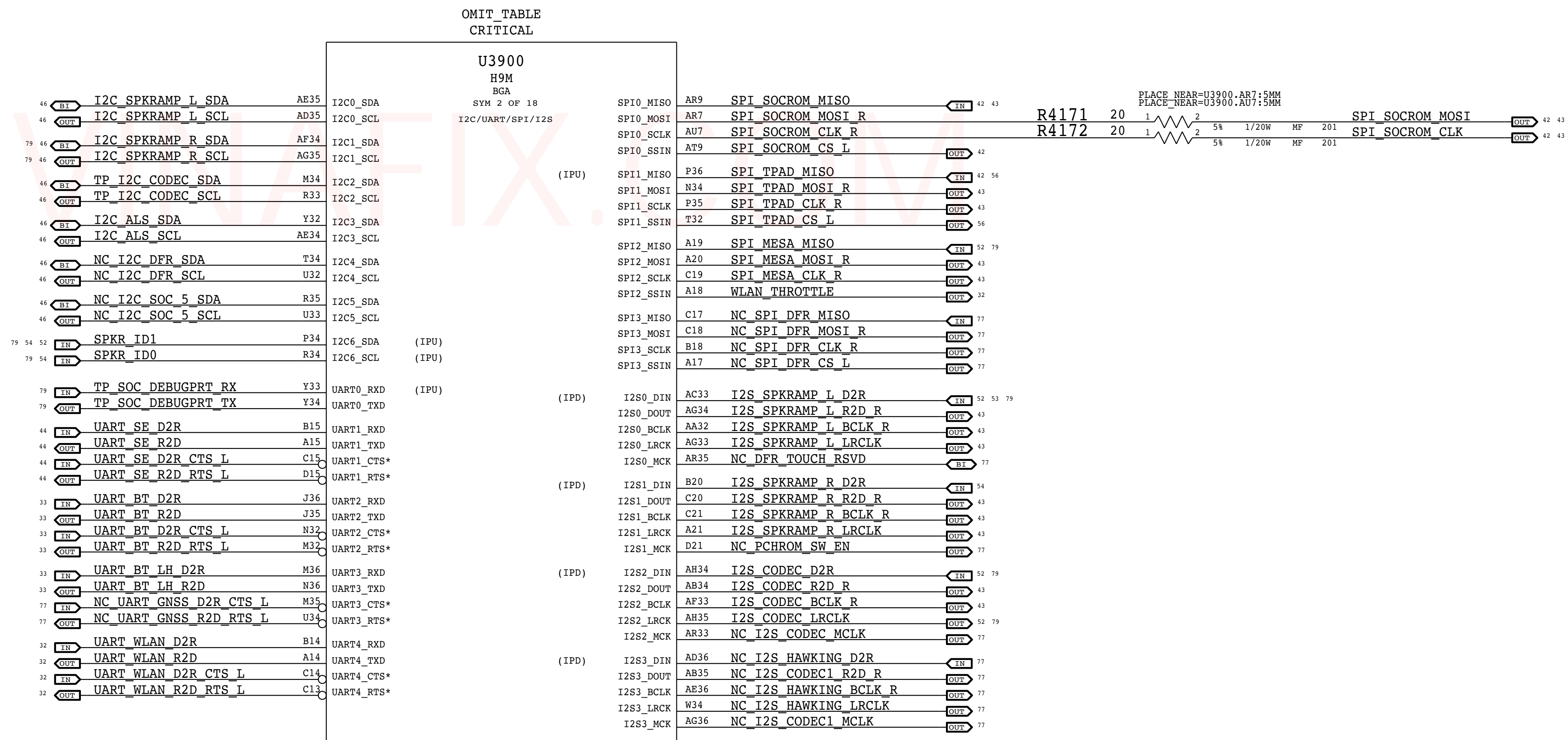
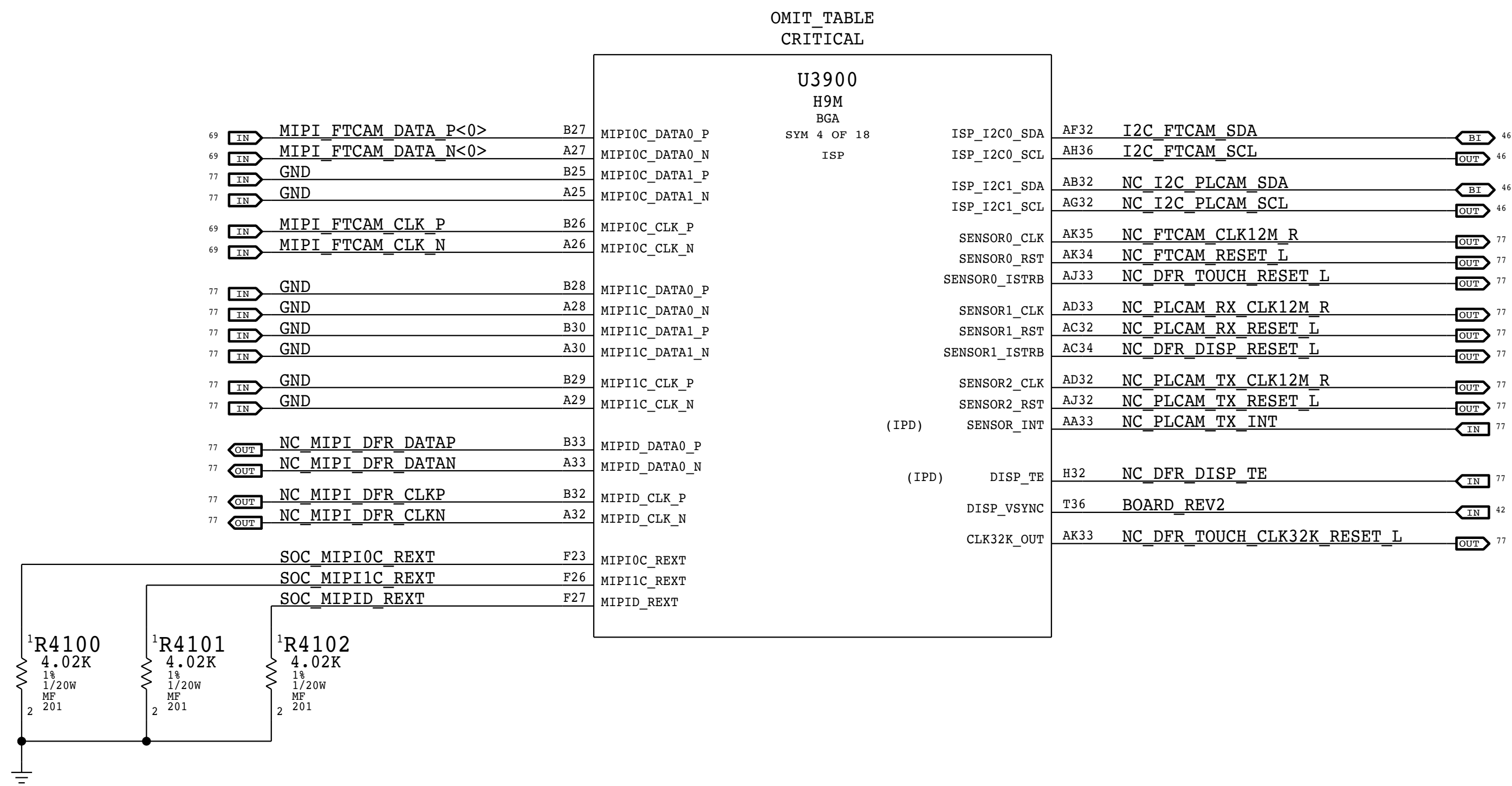
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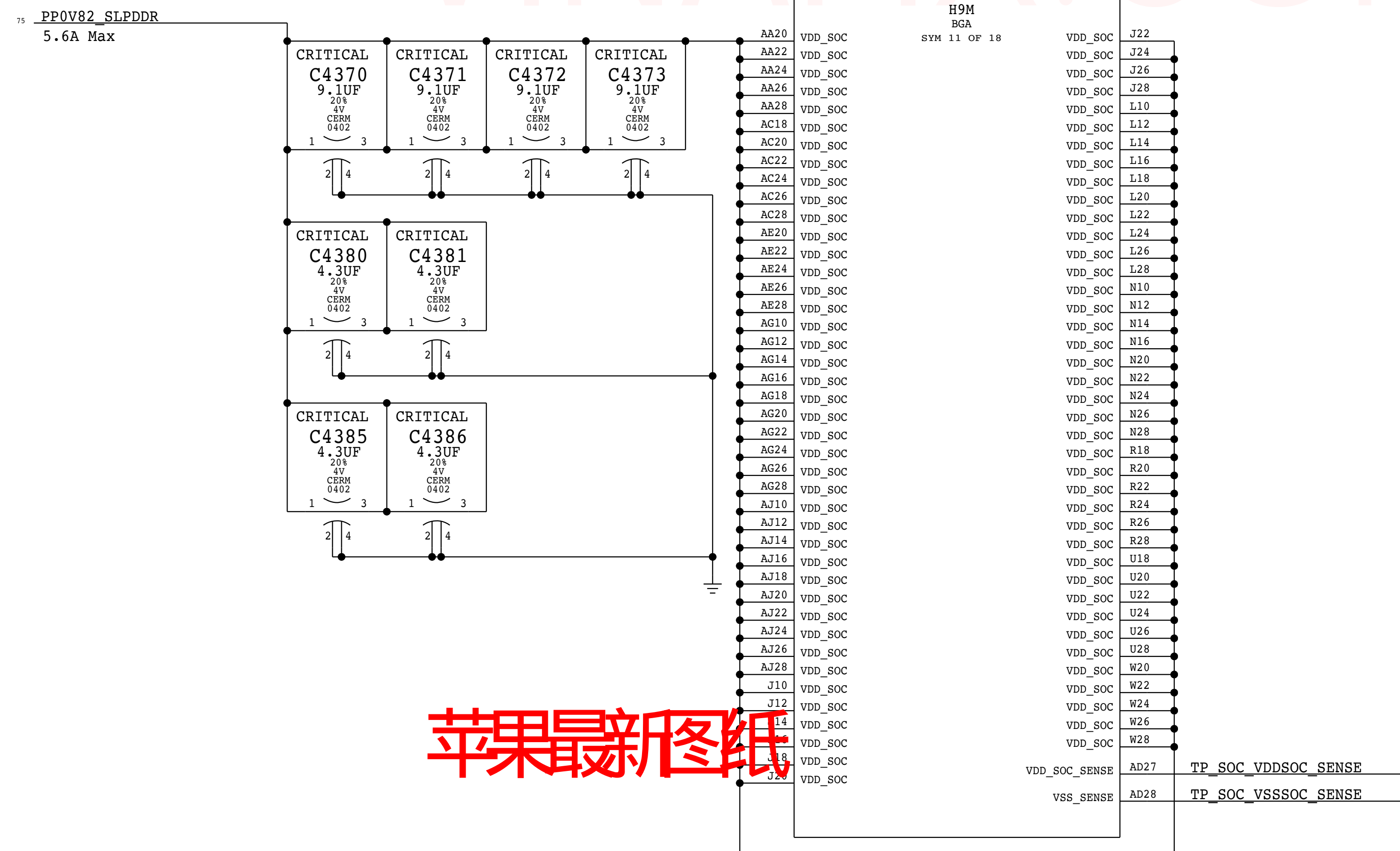
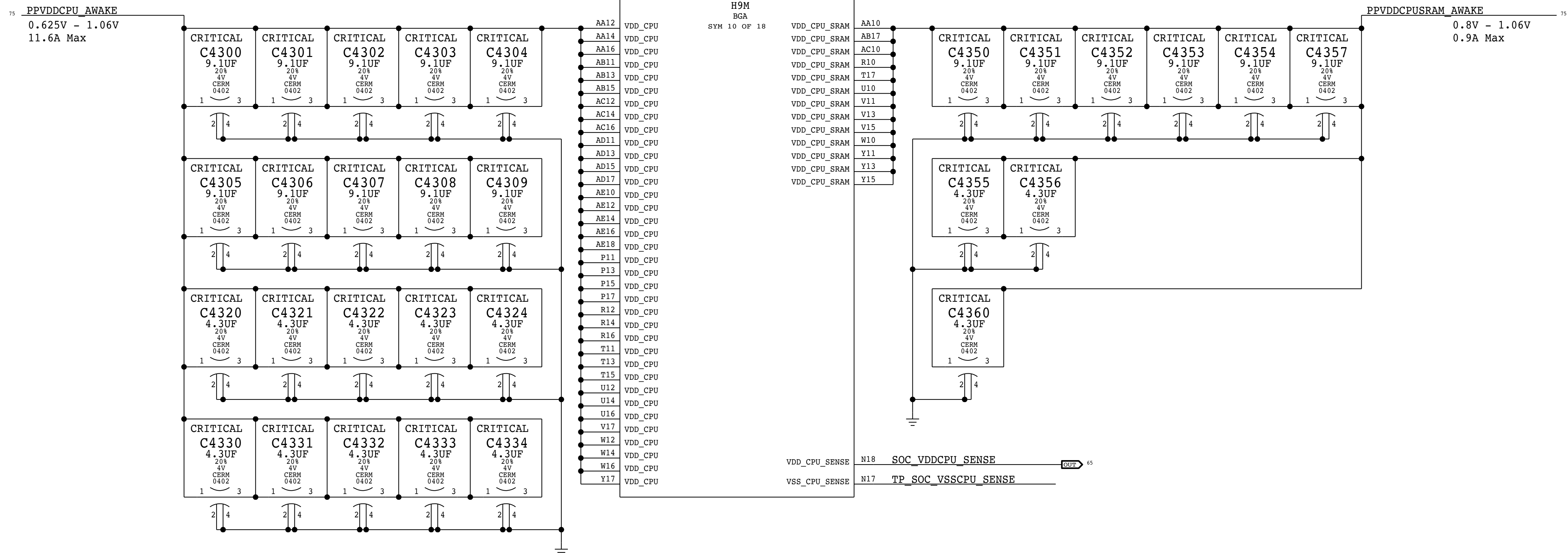
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SYNC_MASTER=X589_BIGSUR		SYNC_DATE=03/16/2017	
PAGE_TITLE			
SoC AOP/AON/SMC			
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BOM_COST_GROUP=T290





SYNC MASTER-X589 BIGSUR		SYNC DATE=02/13/2017	
PAGE TITLE			
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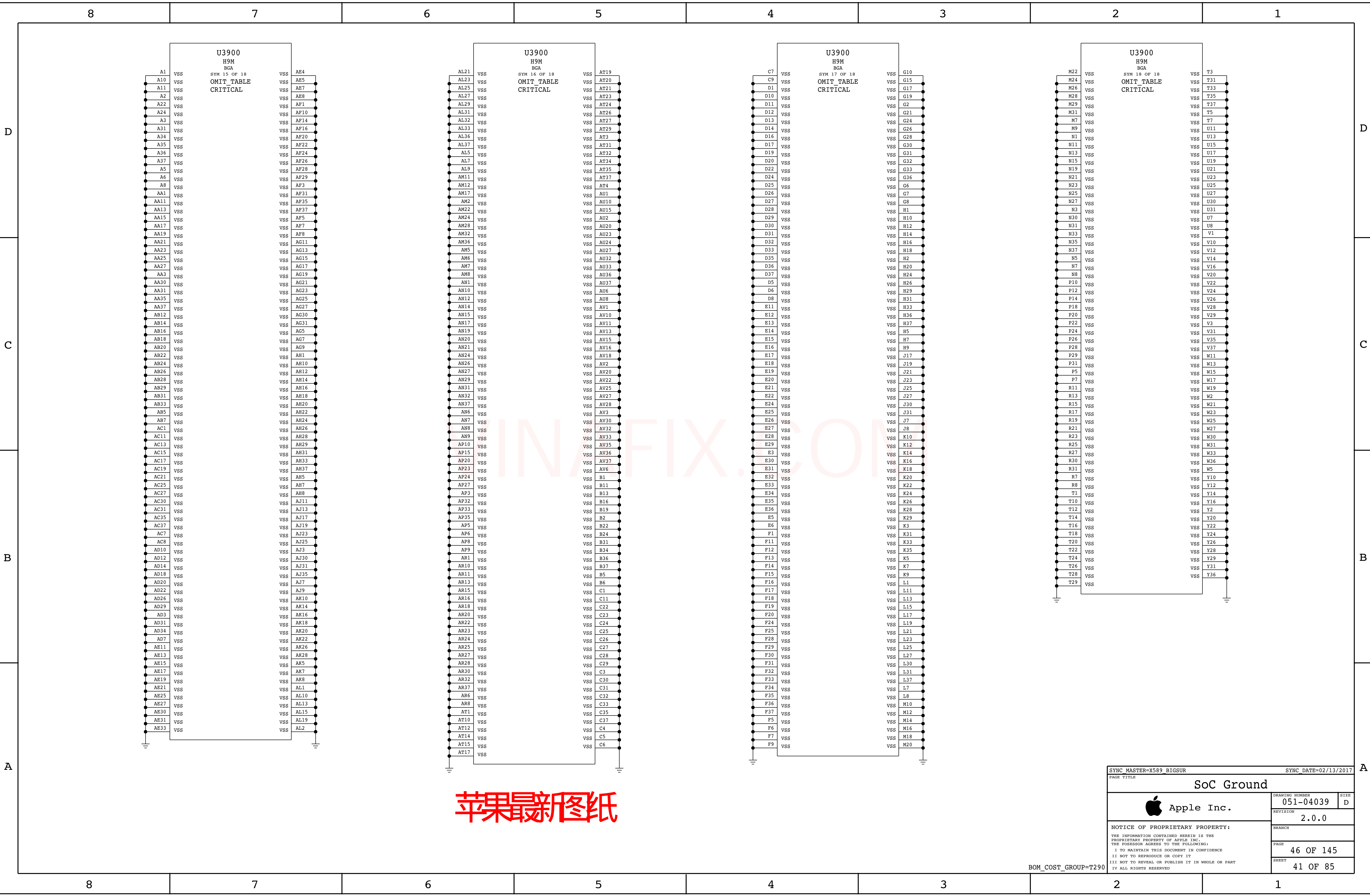
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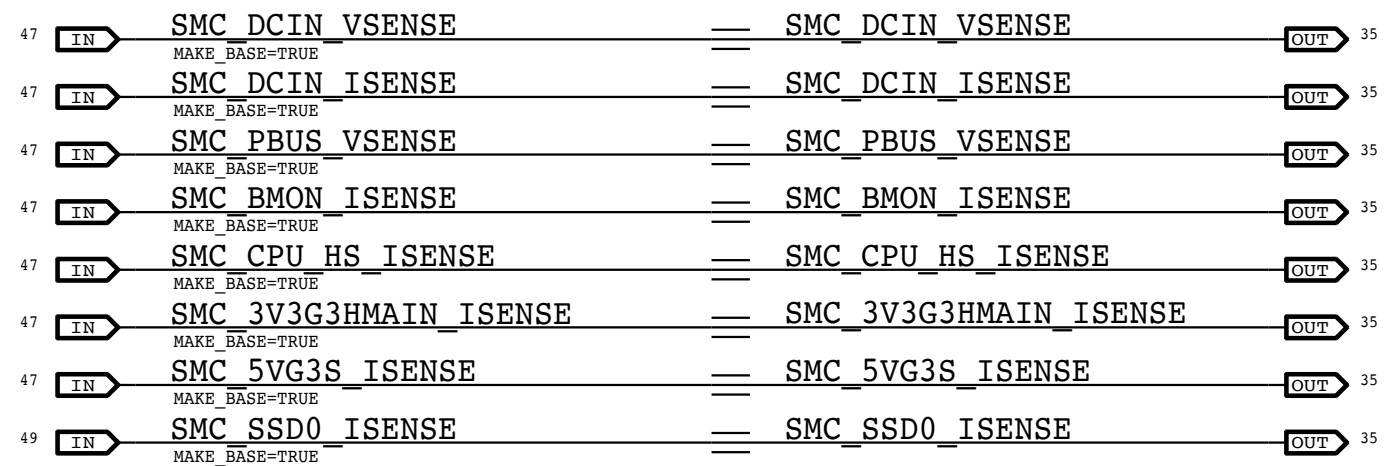


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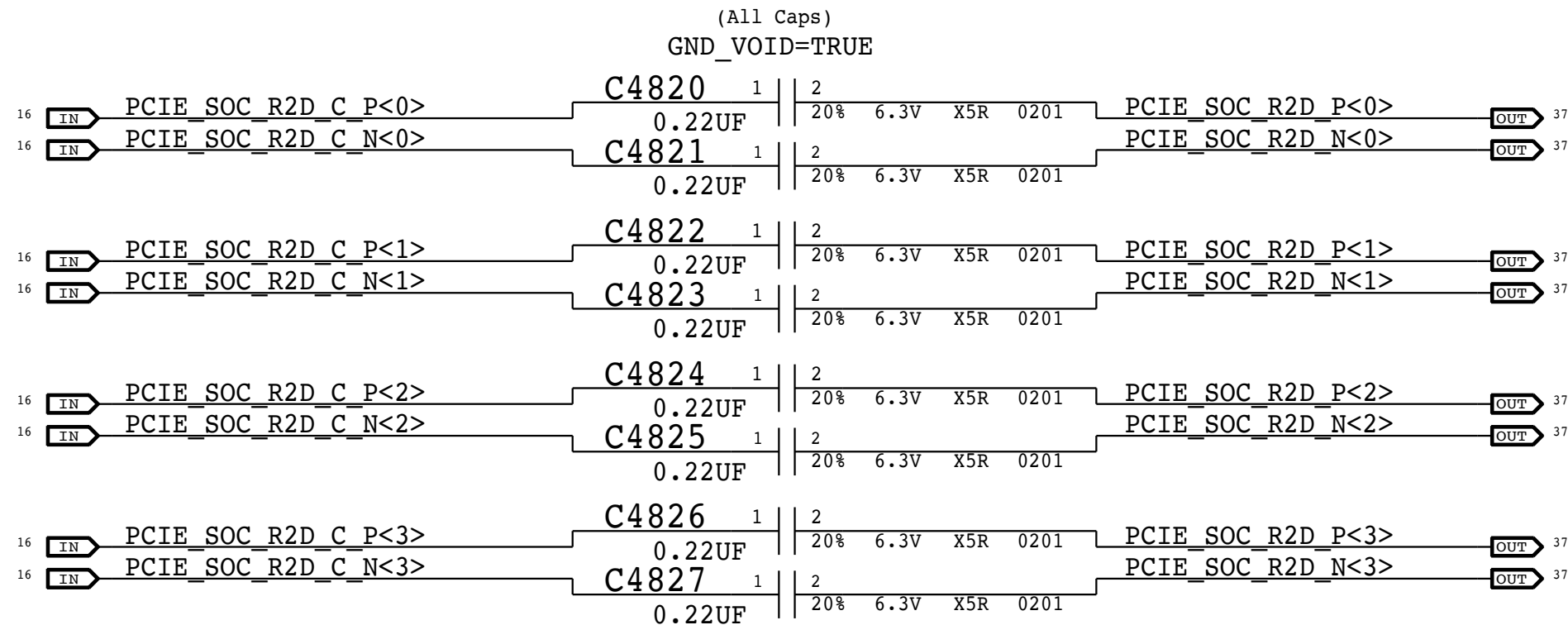
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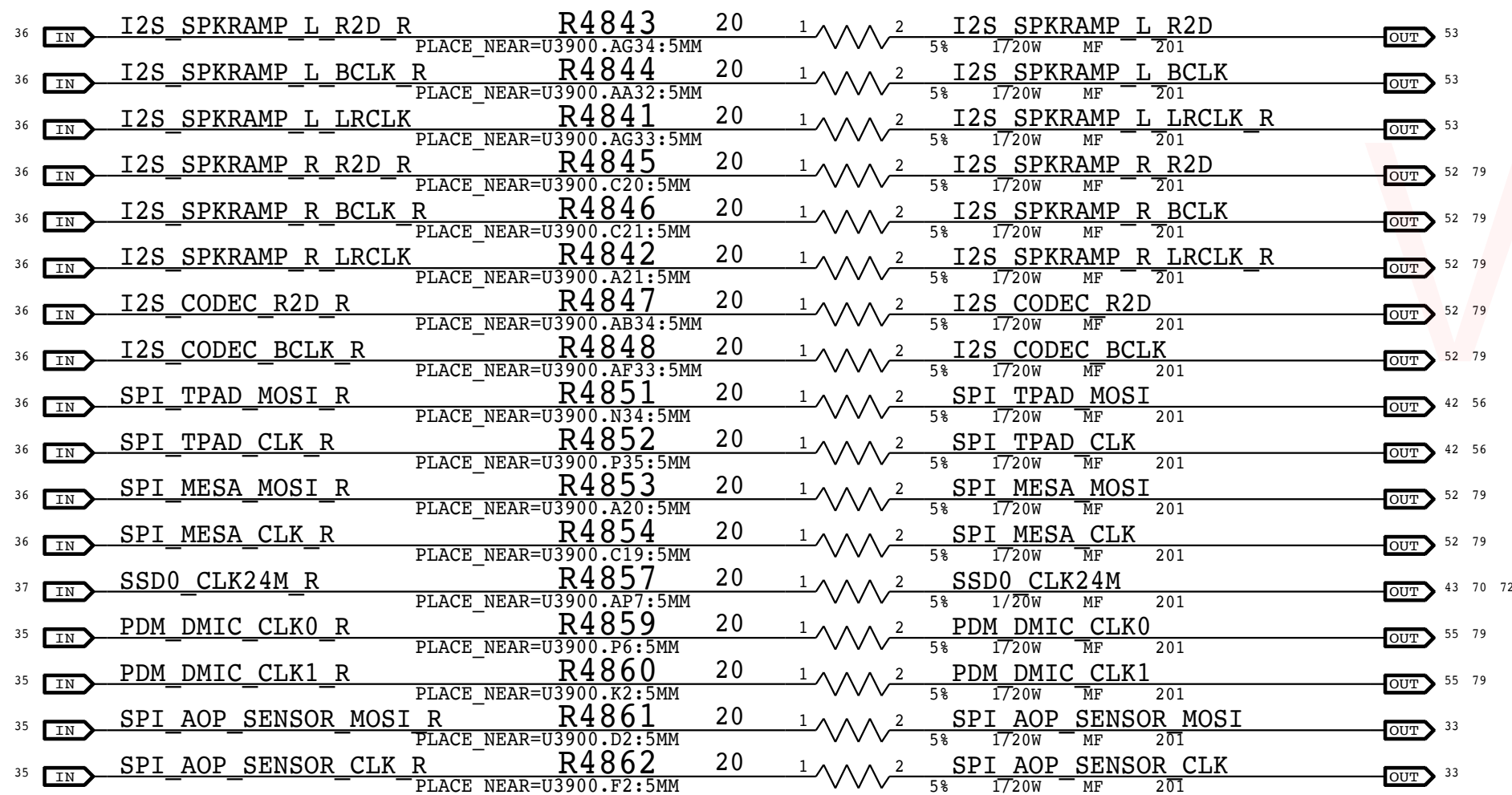
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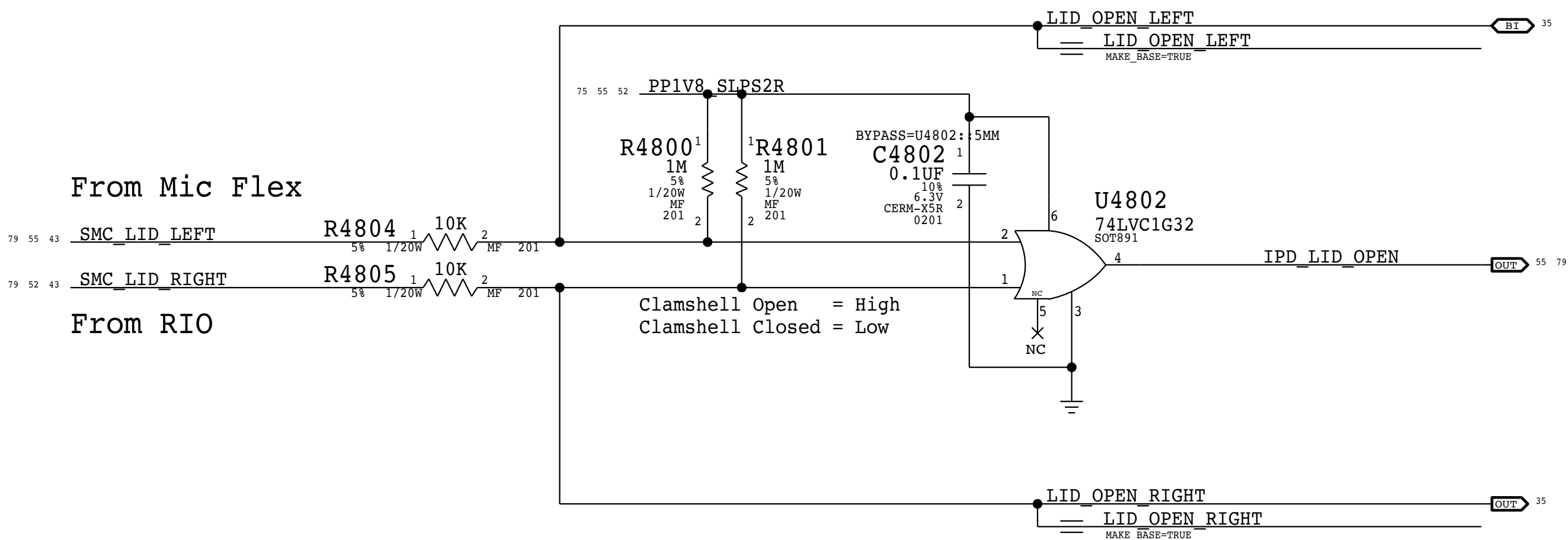
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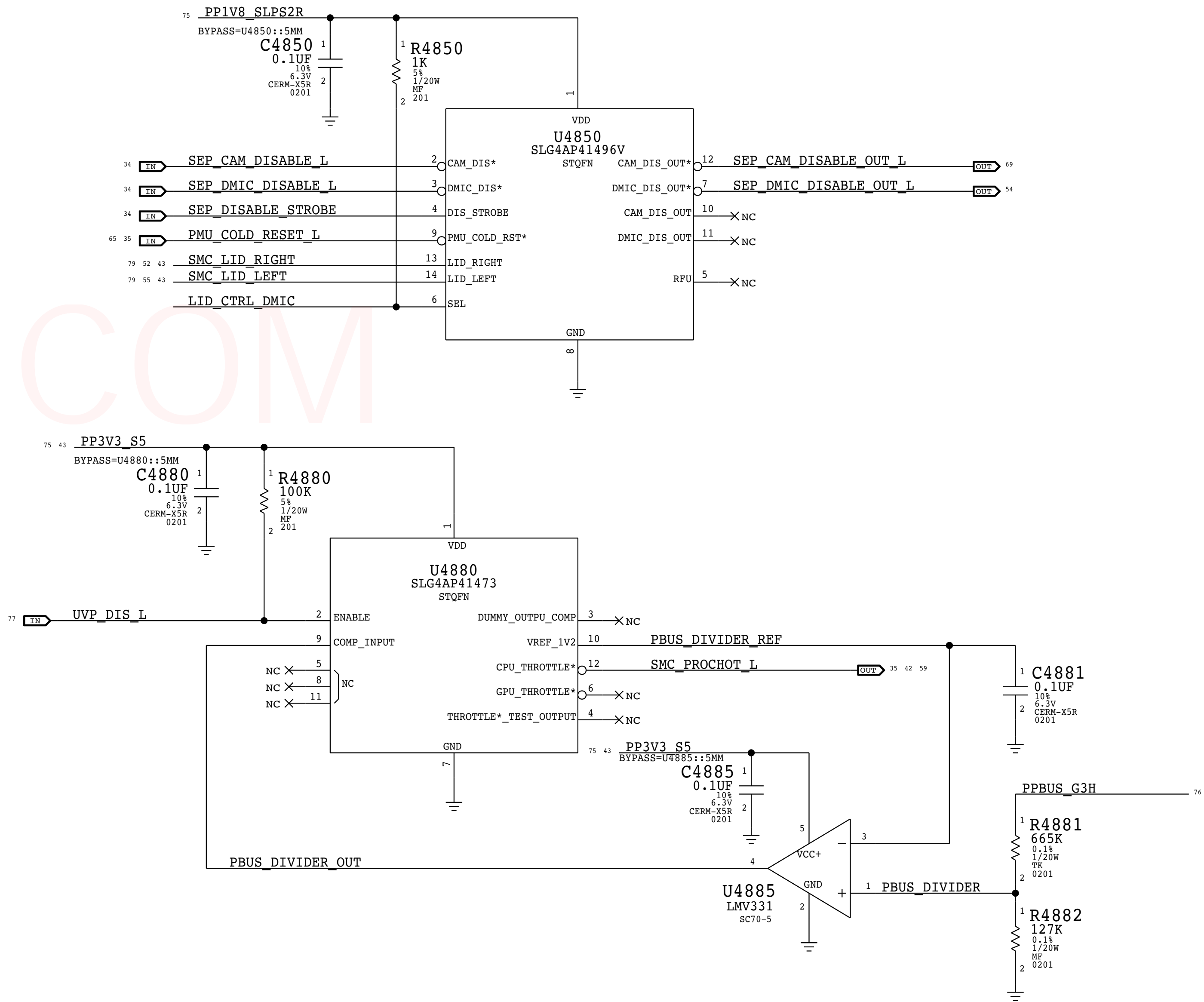
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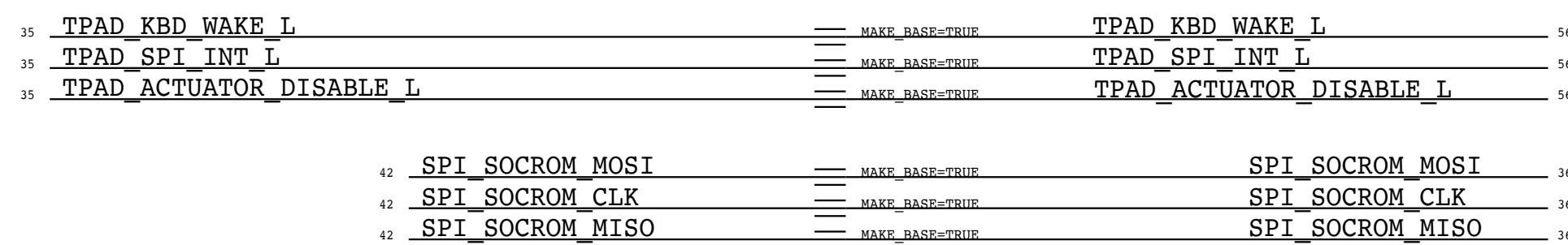
Lid Detect Logic



Secure Disable



Overloaded GPIOs



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SYNC MASTER-X589_BIGSUR

SYNC DATE=02/13/2017

SoC Project Support

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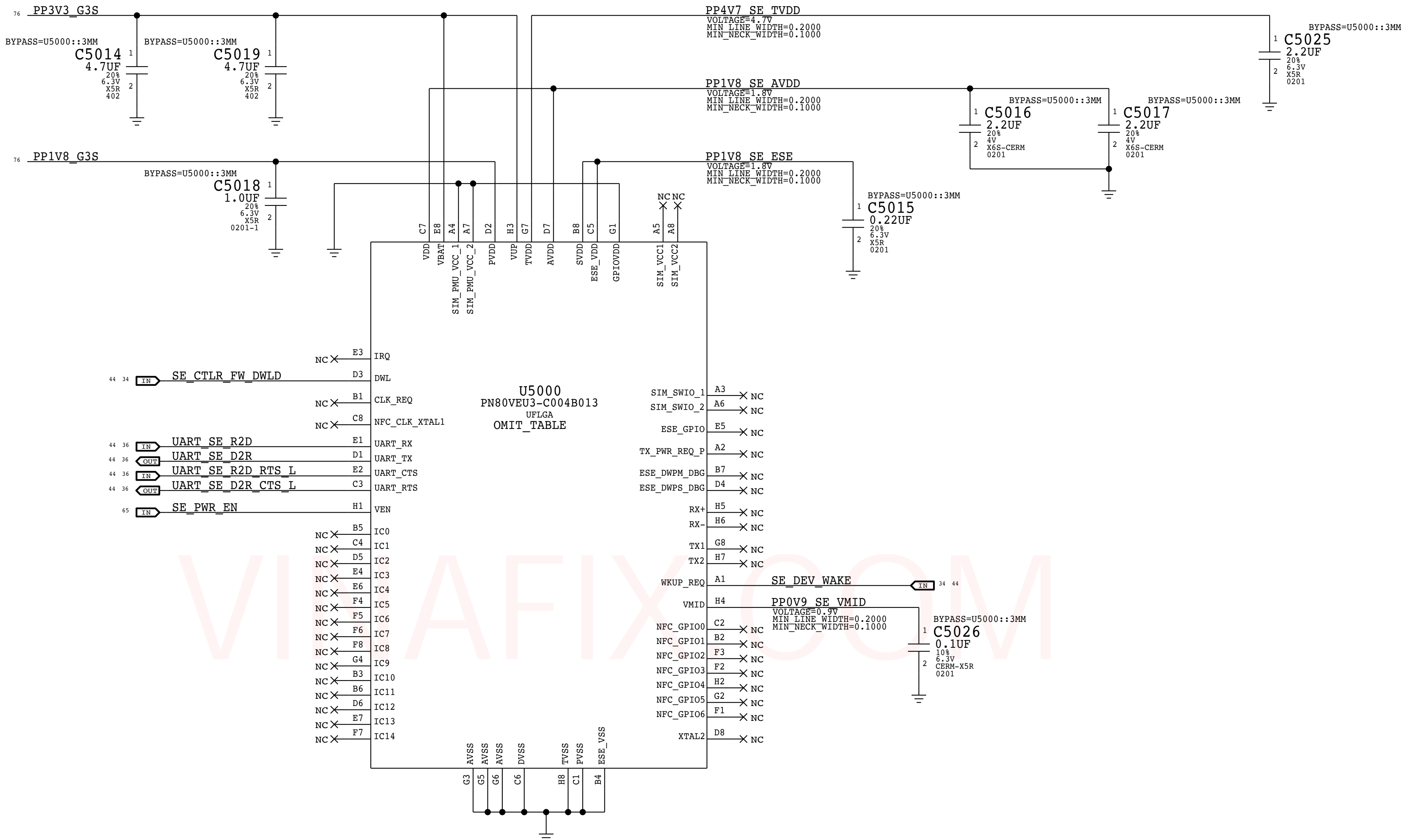
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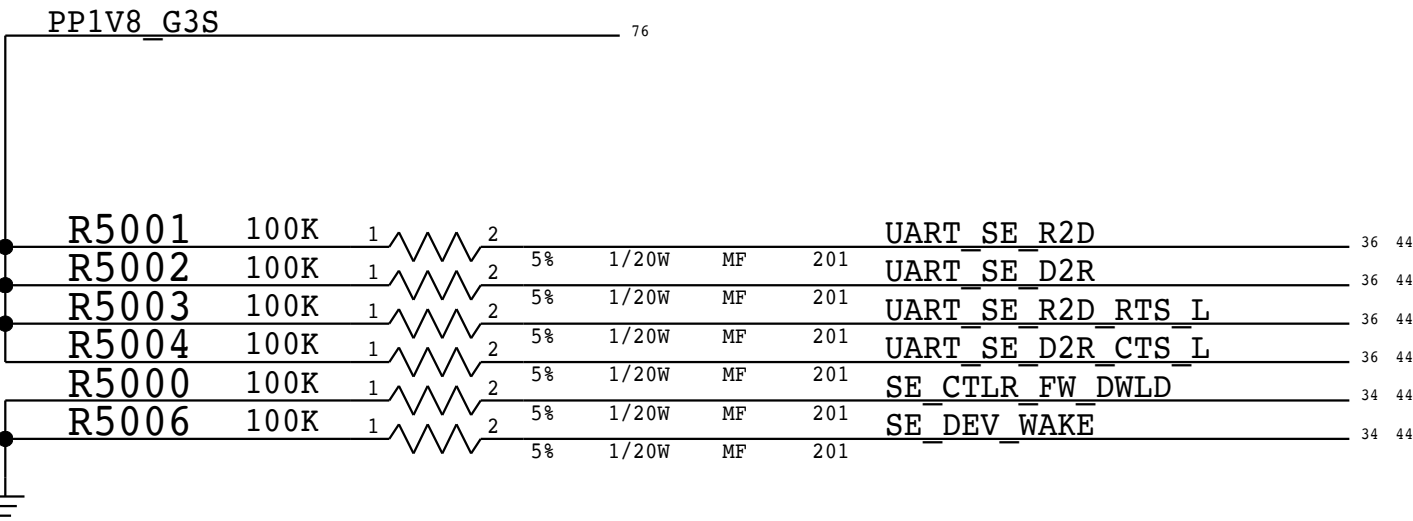
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BOM_COST_GROUP=T290


STOCKHOLM 2017



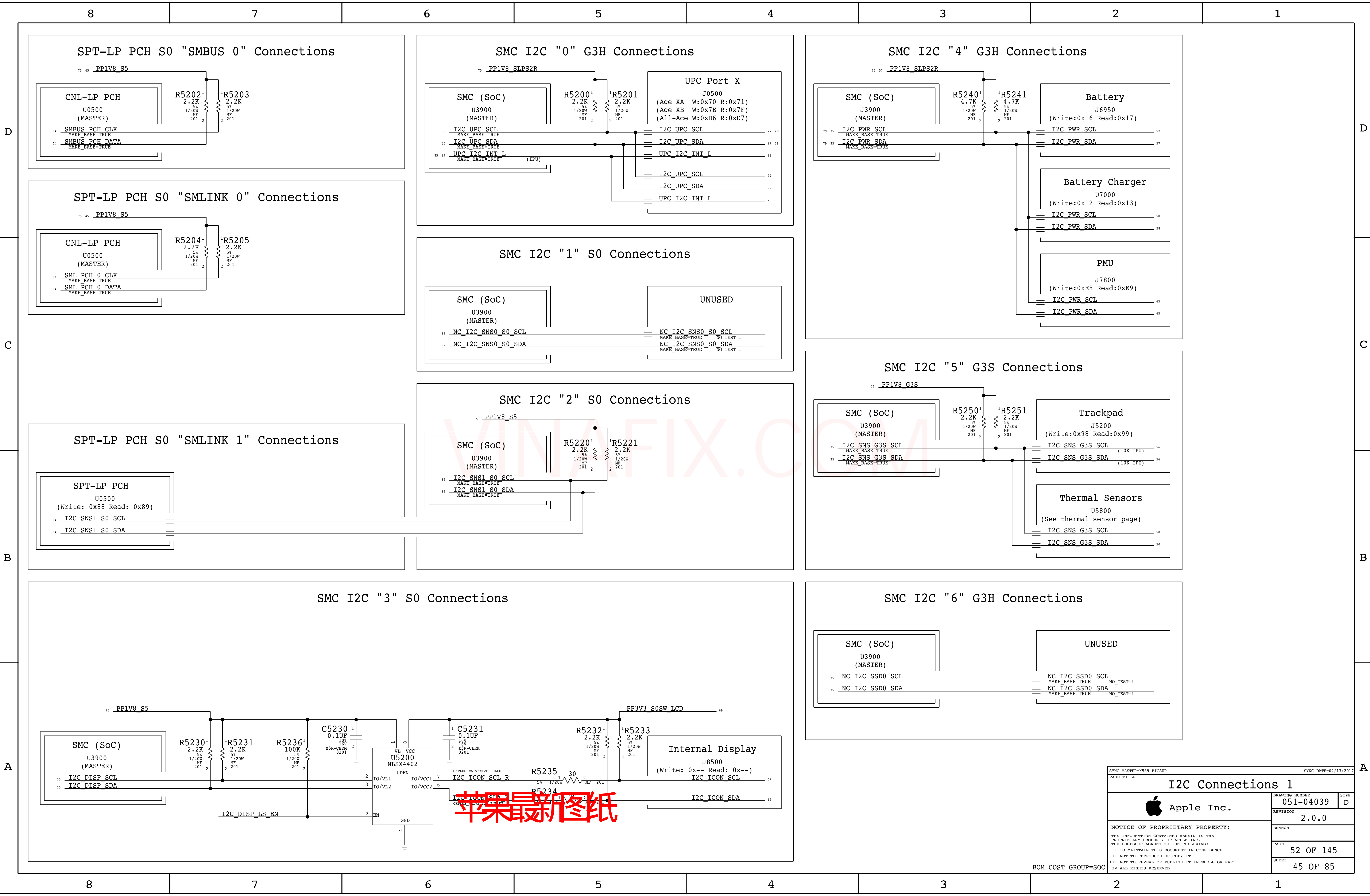
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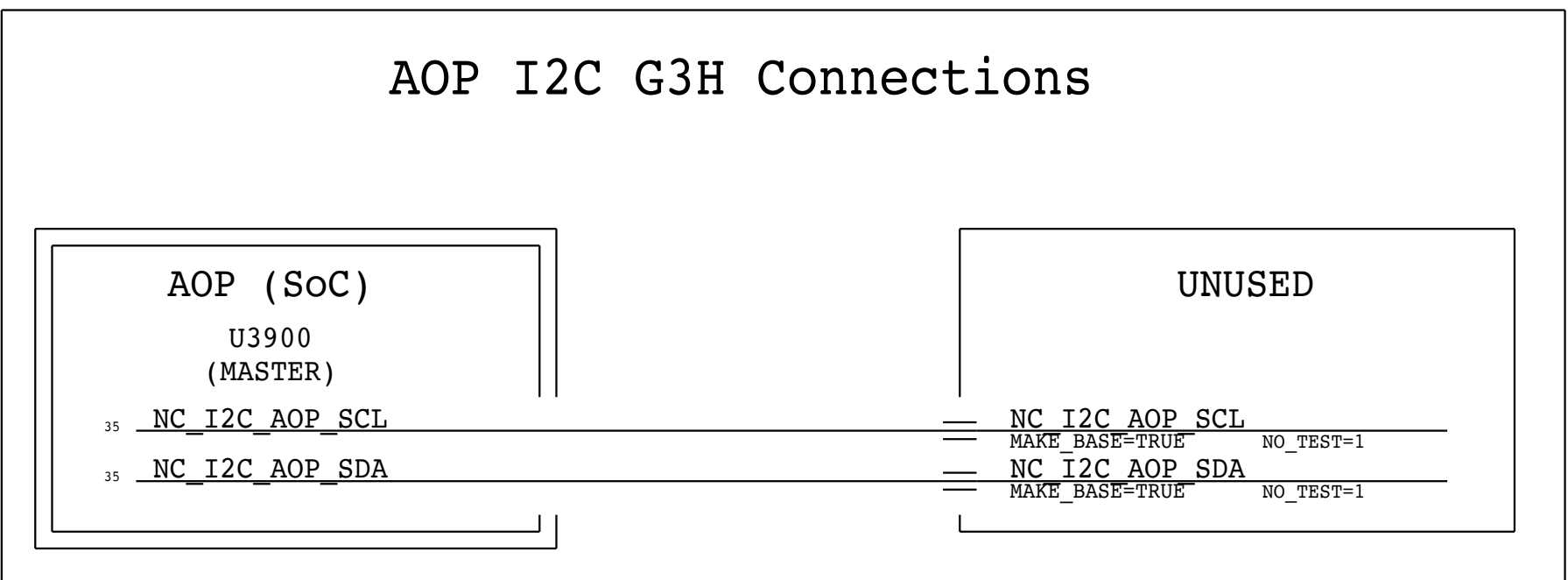
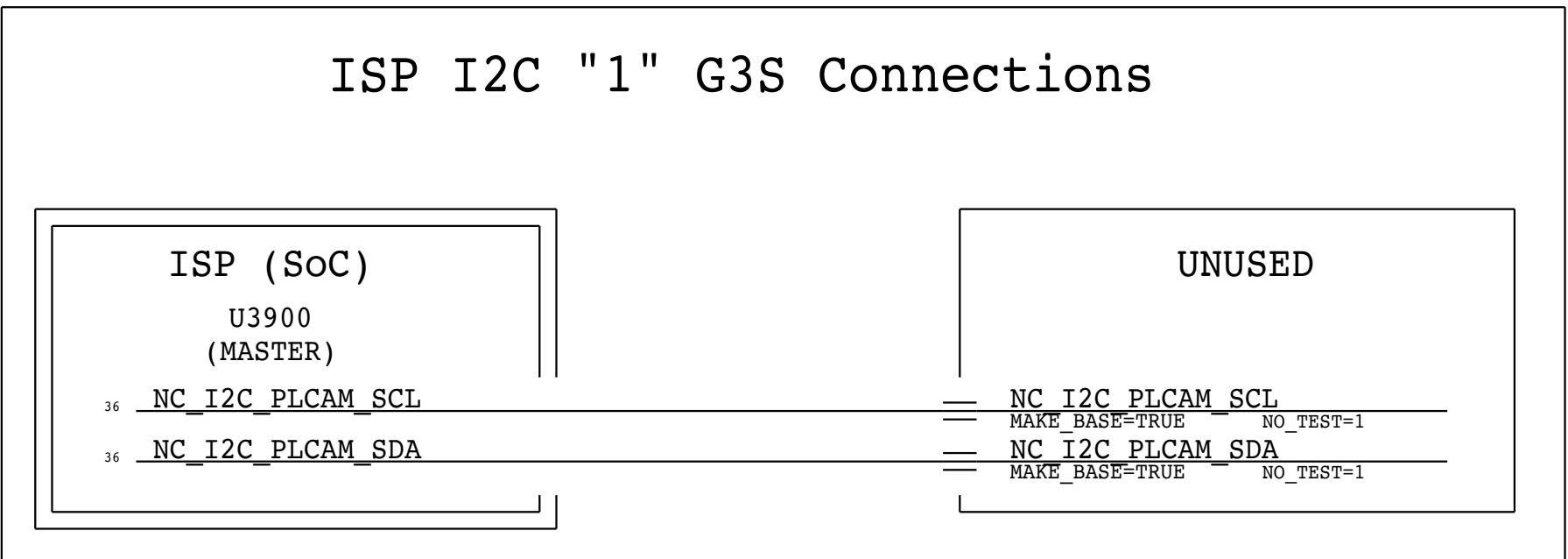
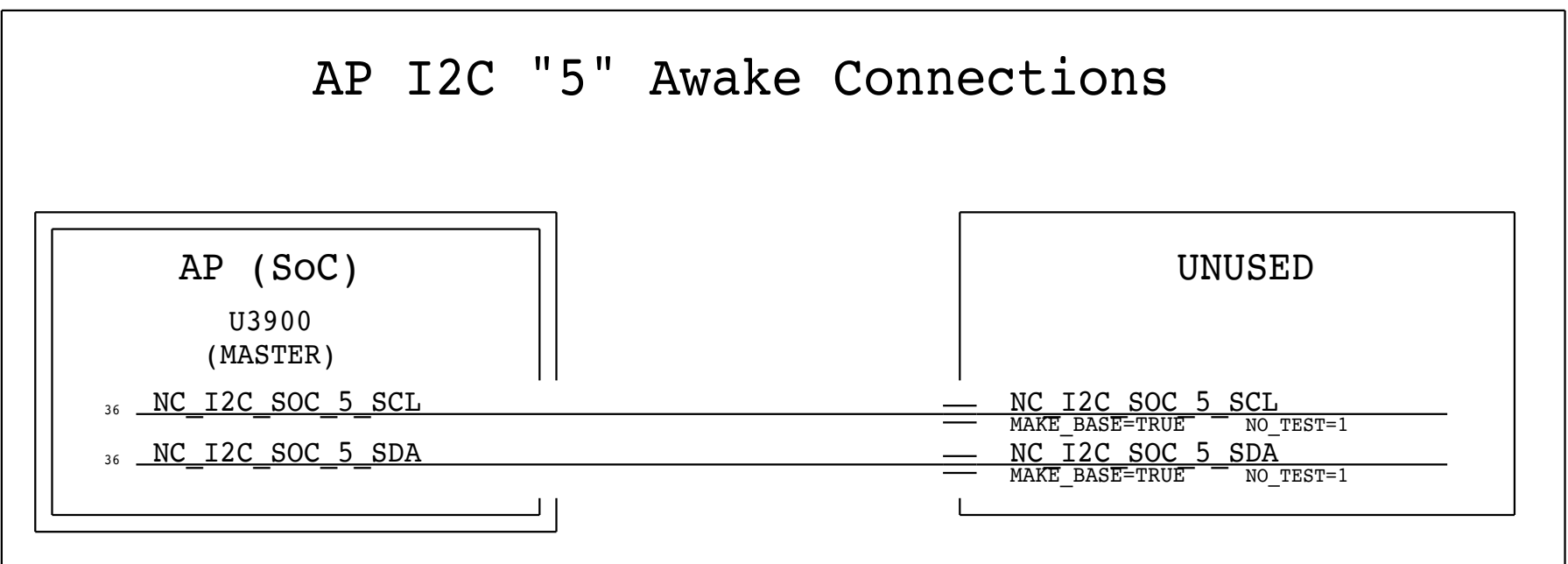
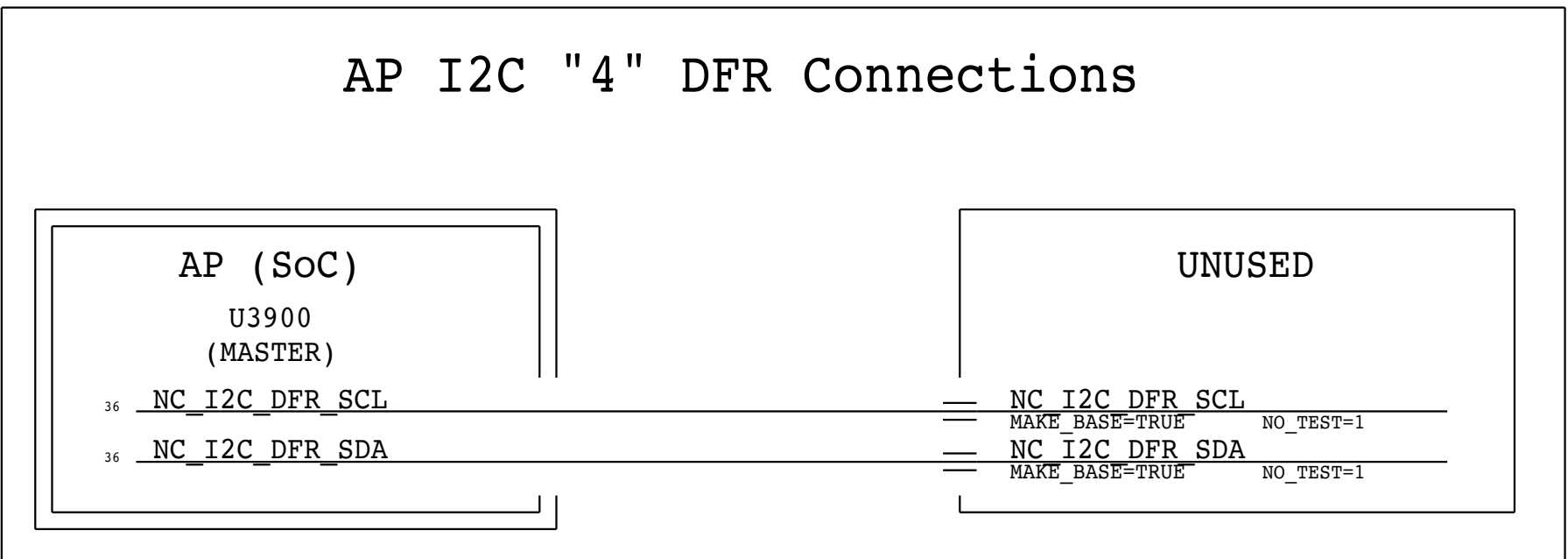
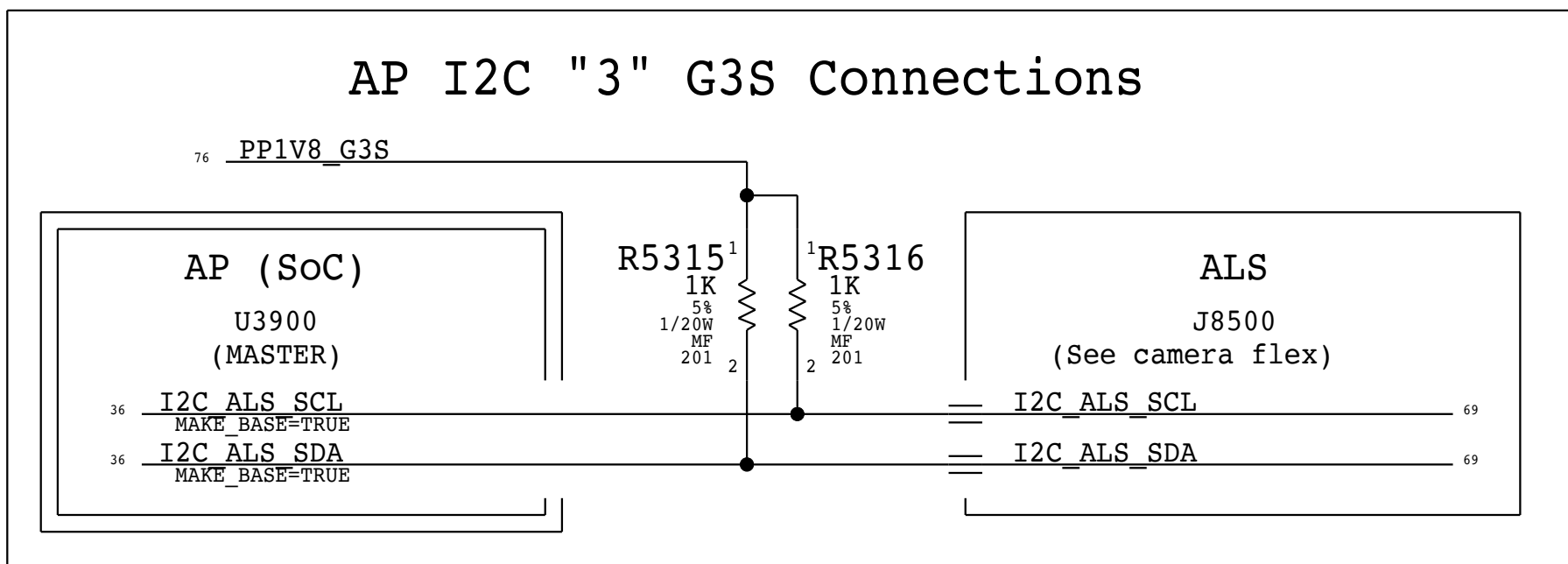
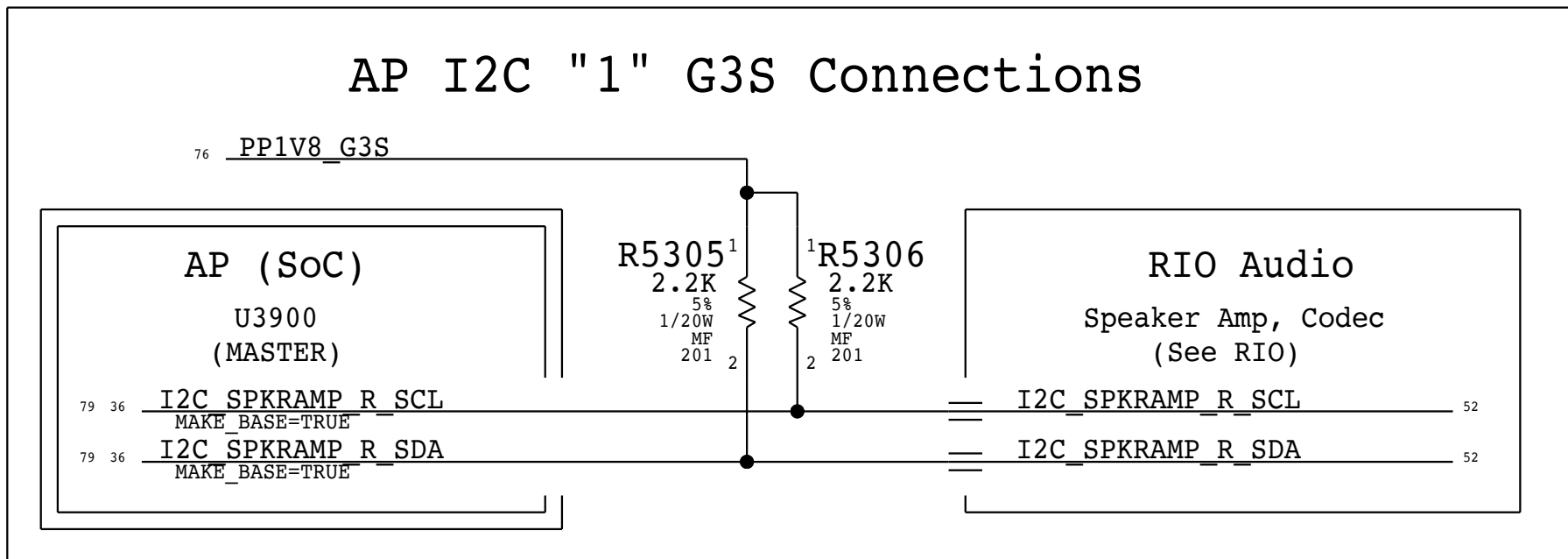
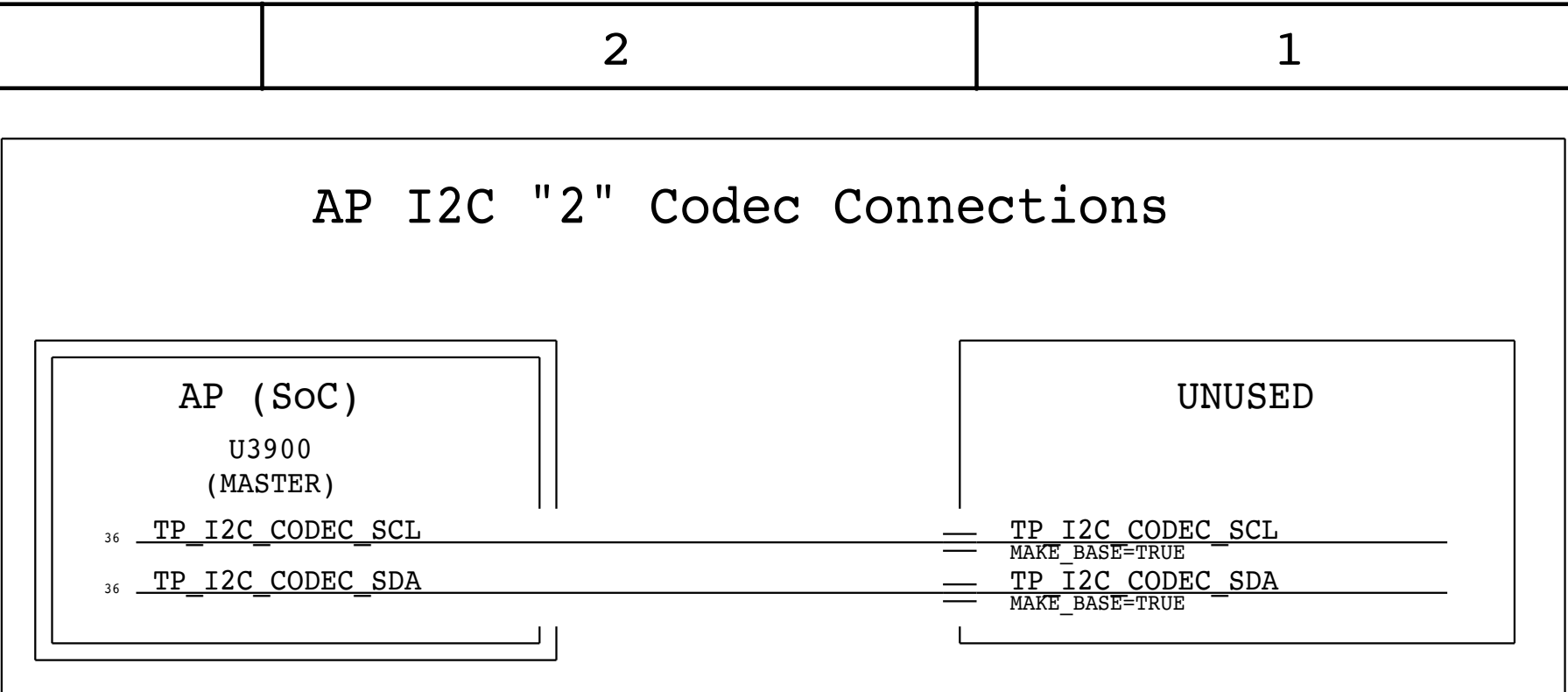
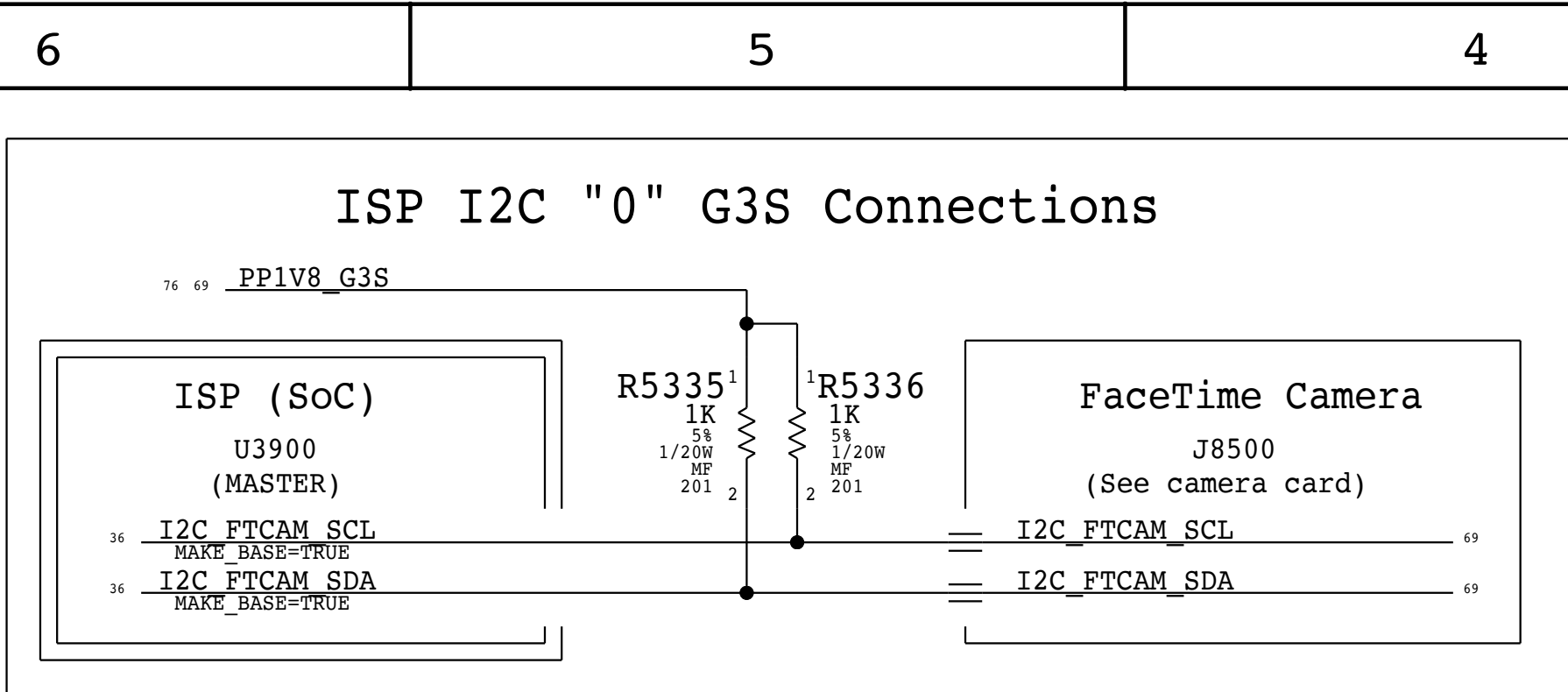
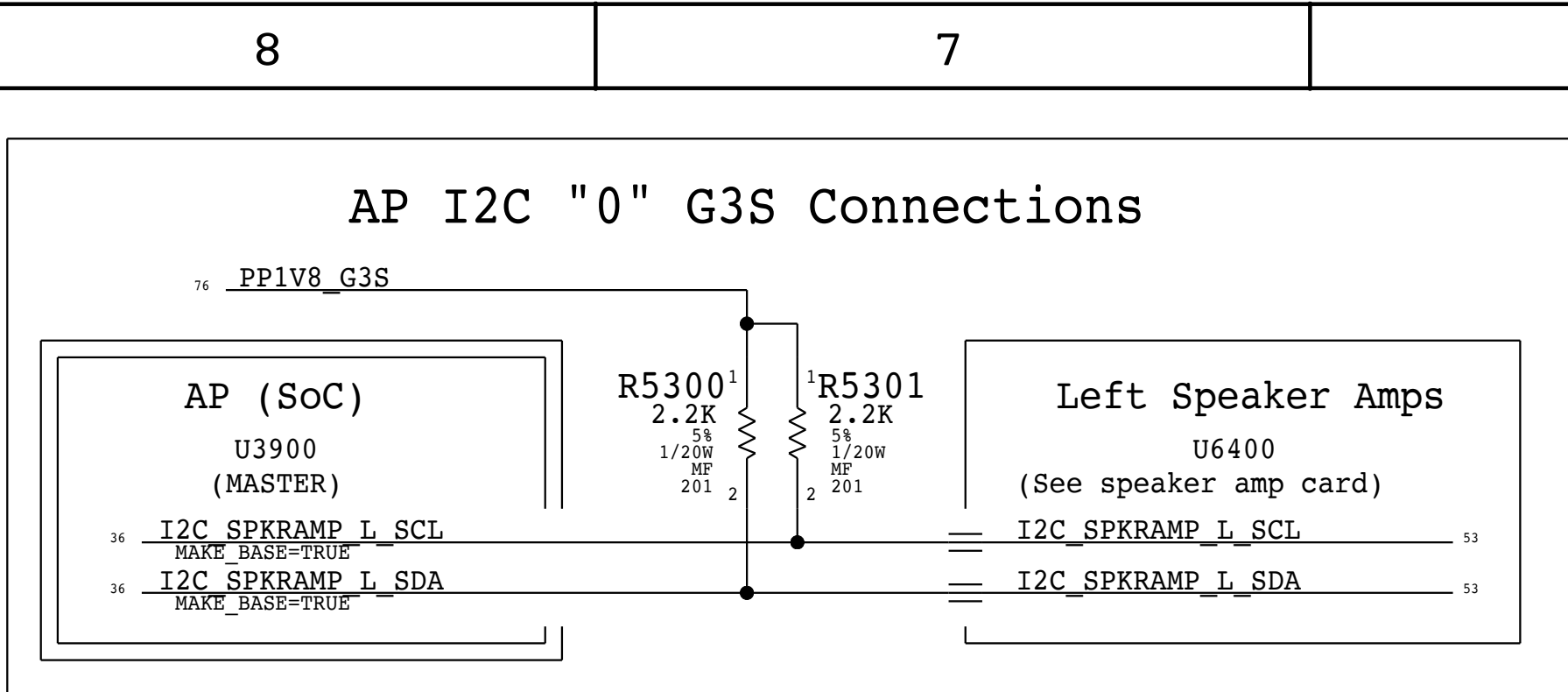
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Secure Element			
	Apple Inc.	DRAWING NUMBER	SHEET
		051-04039	D
		REVISION	2.0.0
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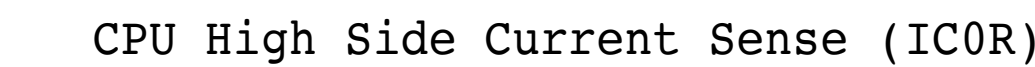
BOM_COST_GROUP=T151



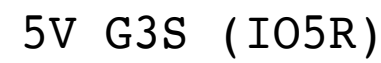
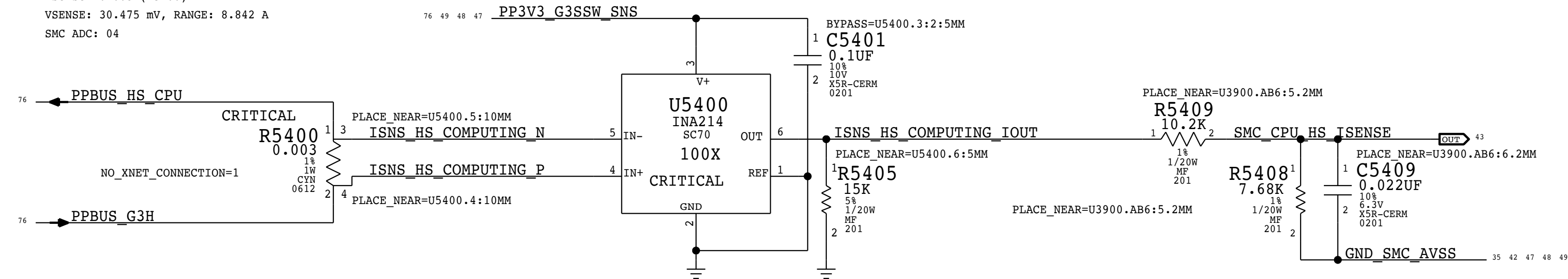
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		SIZE	D
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		BRANCH	
		PAGE	52 OF 145
		SHEET	45 OF 85

BOM_COST_GROUP=SOC

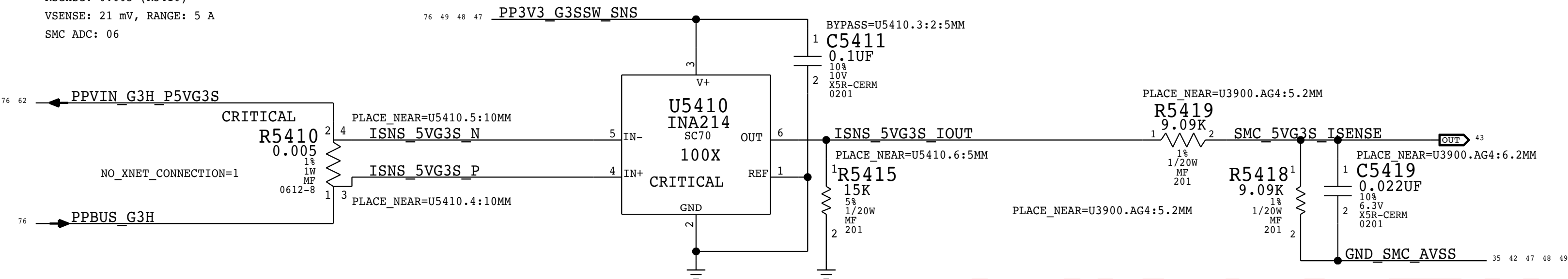




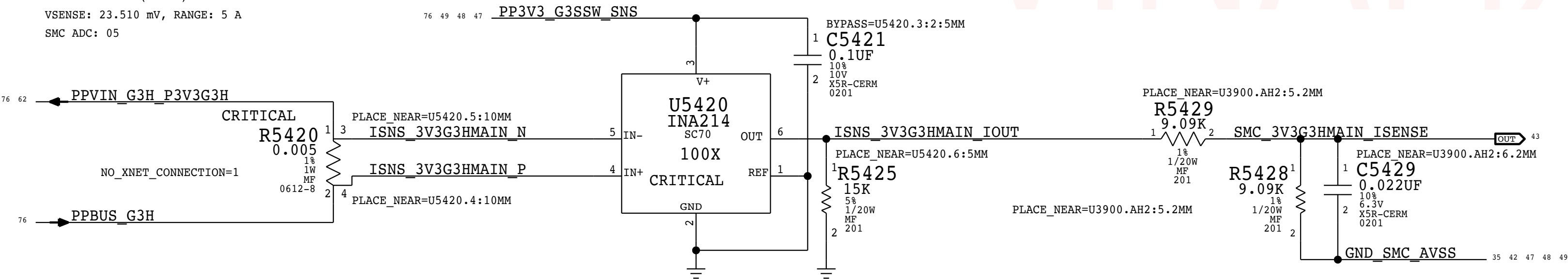
GAIN: 100X, EDP: 10.16 A
Rsense: 0.003 (R5400)
VSENSE: 30.475 mV, RANGE: 8.842 A
SMC ADC: 04



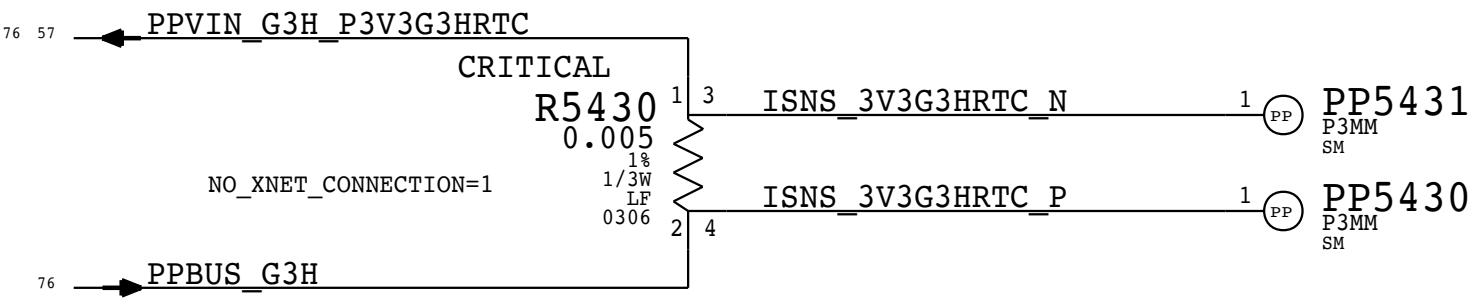
GAIN: 100X, EDP: 4.2 A
Rsense: 0.005 (R5410)
VSENSE: 21 mV, RANGE: 5 A
SMC ADC: 06



GAIN: 100X, EDP: 4.702 A
Rsense: 0.005 (R5420)
VSENSE: 23.510 mV, RANGE: 5 A
SMC ADC: 05

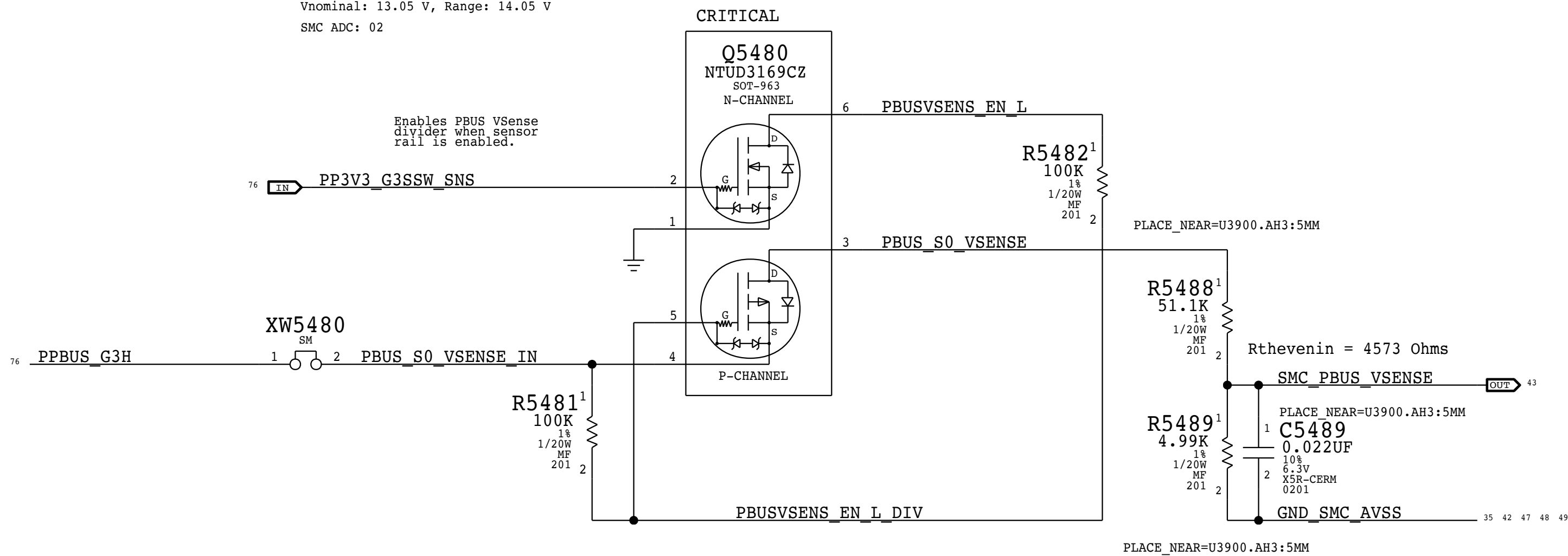


```
GAIN: X, EDP: 0.753 A
Rsense: 0.005 (R5430)
VSENSE: 3.767 mV, RANGE: 0.756 A
PMU AMUX: x
```



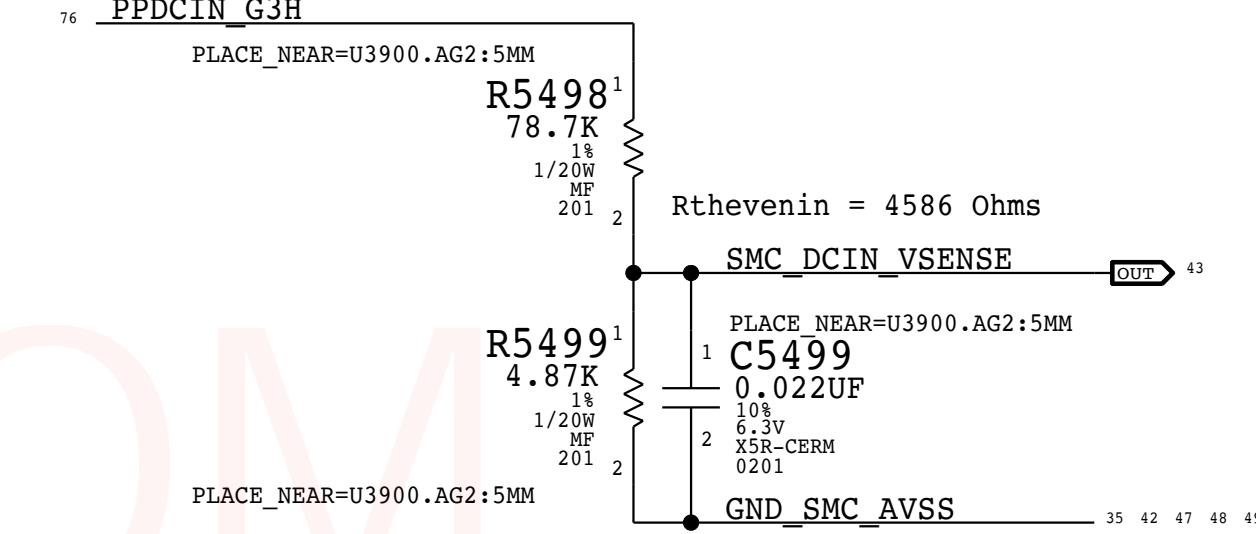
PBUS Voltage Sense & Enable (VP0R)

Gain: 0.089x
Vnominal: 13.05 V, Range: 14.05 V
SMC ADC: 02



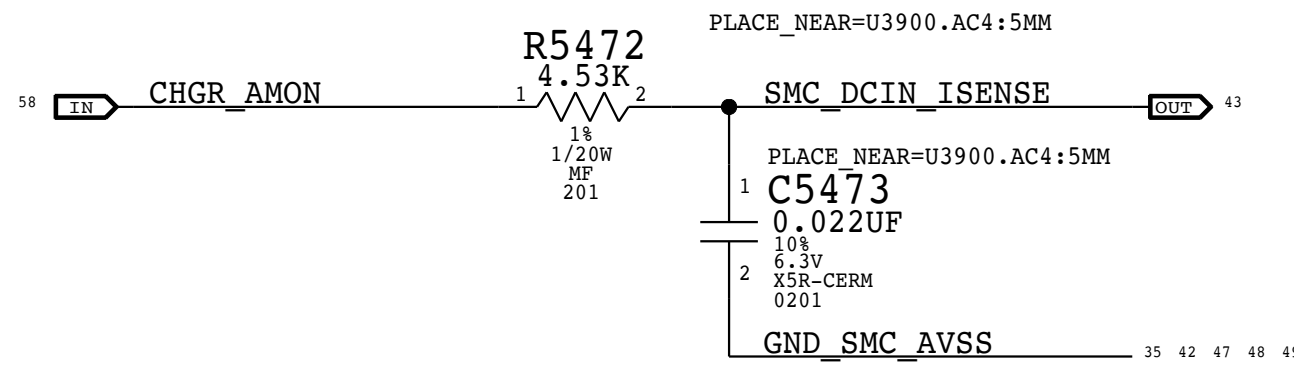
DC In Voltage Sense & Enable (VD0R)

Gain: 0.148x
Vnominal: 16.5 V, Range: 22.29 V
SMC ADC: 00



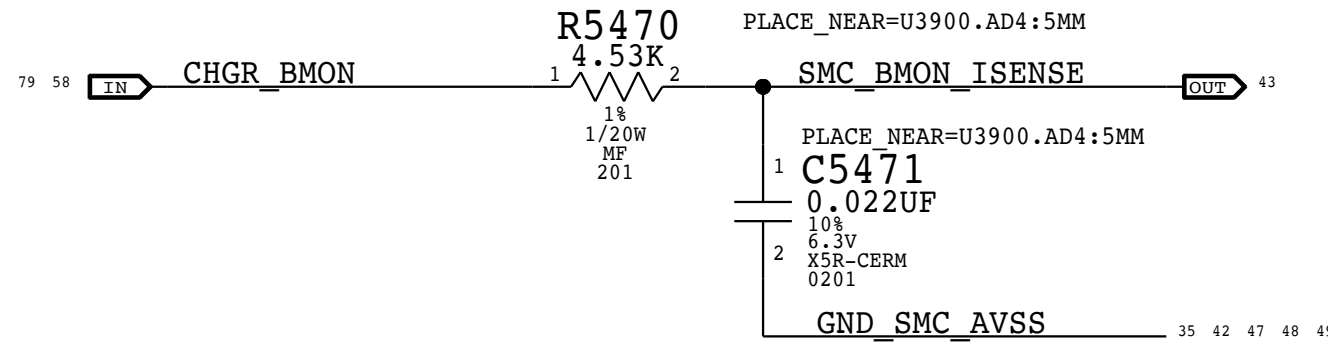
DC-IN (AMON) Current Sense (ID0R)

Charger Gain: 20x, EDP: 3.0 A
RSENSE: 0.010 (R7020)
SMC ADC: 01

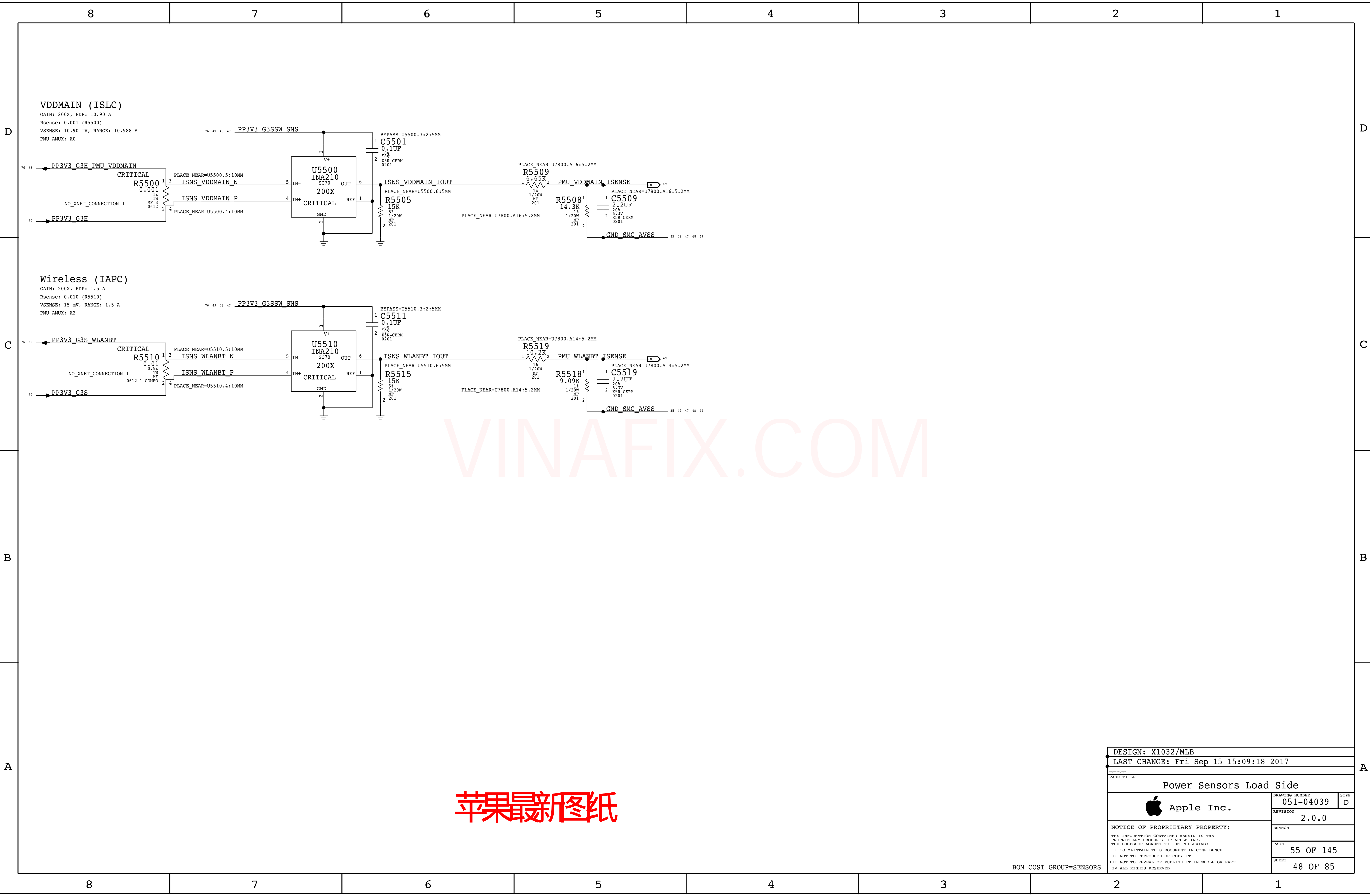



Charger (BMON) Current Sense (IPBR)

Charger Gain: 7.9x, EDP: 6.5 A
RSENSE: 0.005 (R7060)
SMC ADC: 03



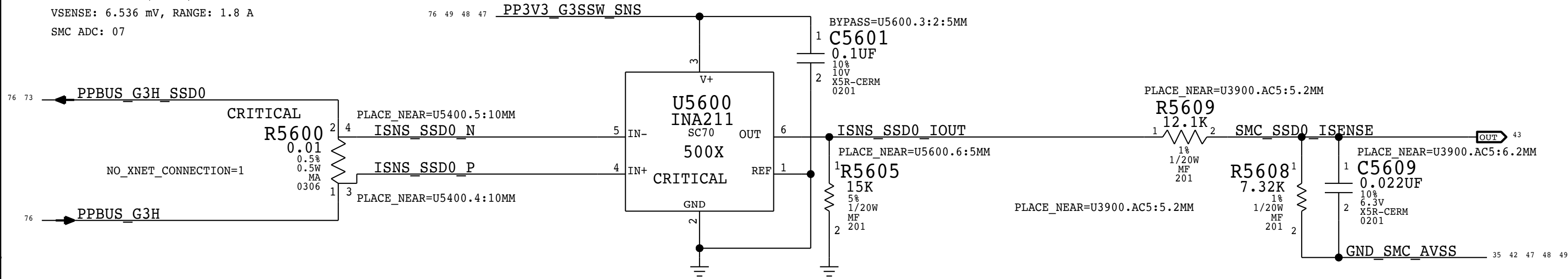
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LAST CHANGE: Fri Sep 15 15:09:18 2017		
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Power Sensors High Side		
 Apple Inc.	DRAWING NUMBER	051-04039
	REVISION	2.0.0
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	PAGE	54 OF 145
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Power Sensors Load Side		
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	SHEET	48 OF 85

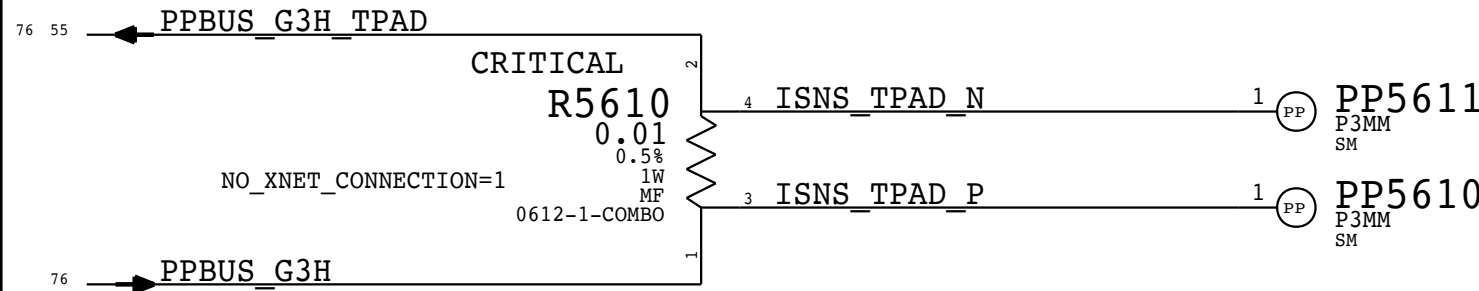
SSD (IH0R)

GAIN: 500X, EDP: 0.654 A
Rsense: 0.010 (R5600)
VSENSE: 6.536 mV, RANGE: 1.8 A
SMC ADC: 07



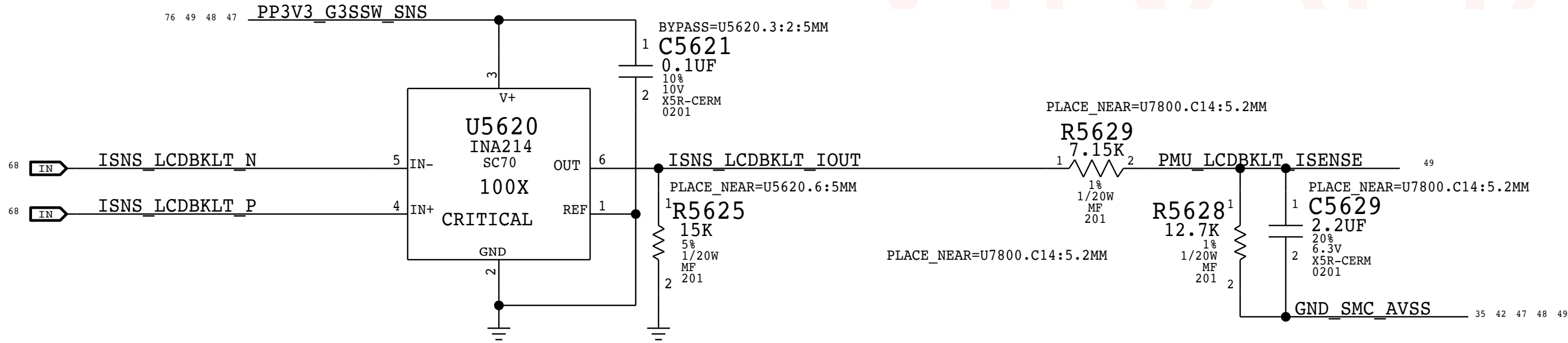
Trackpad (xxxx)

GAIN: x, EDP: 2.3 A
Rsense: 0.010 (R5610)
VSENSE: 23 mV, RANGE: 2.344 A
PMU AMUX: x

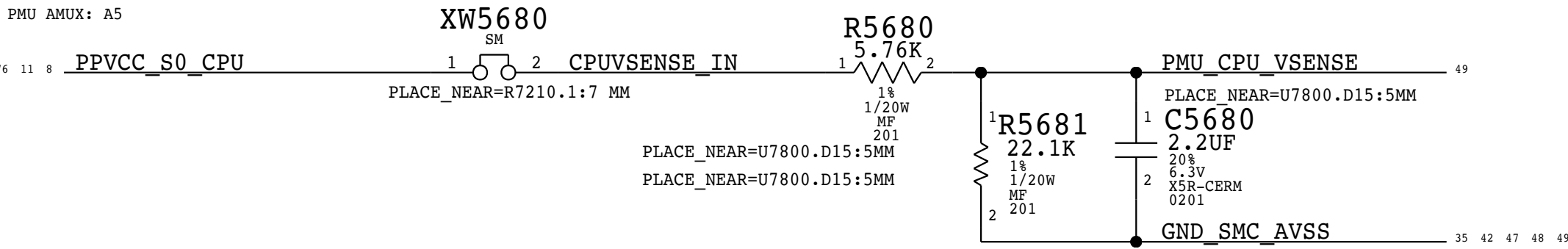


LCD Backlight (IBLR)

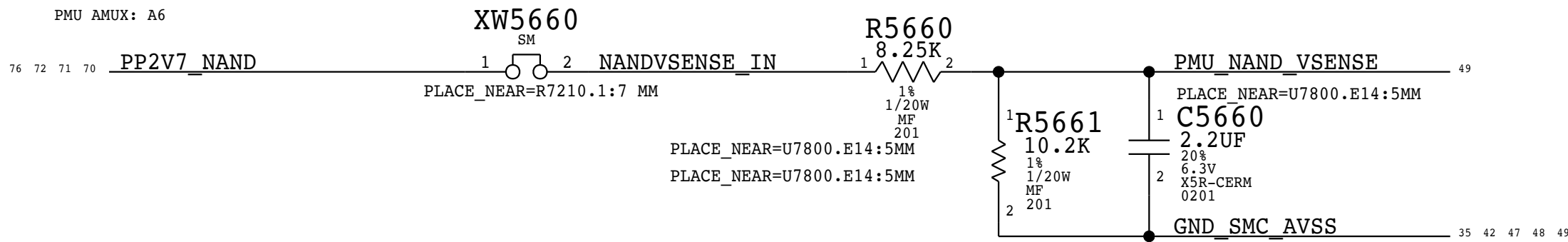
GAIN: 100X, EDP: 0.902 A
Rsense: 0.025 (R8400)
VSENSE: 22.549 mV, RANGE: 0.902 A
PMU AMUX: A4



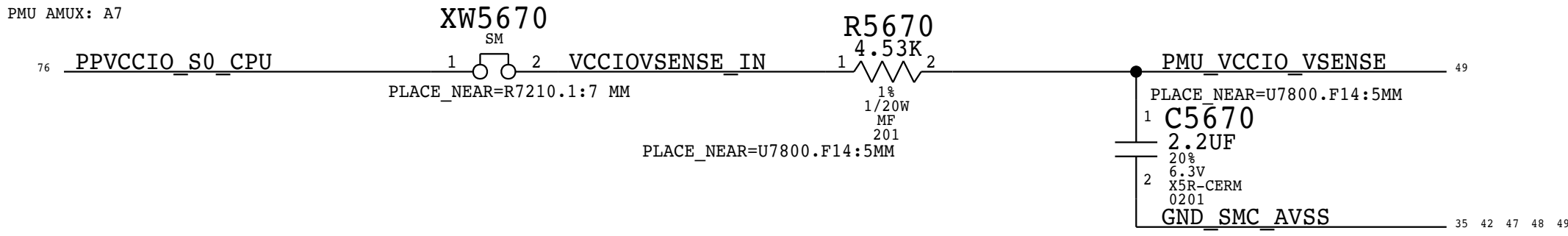
CPU CORE VOLTAGE SENSE (VCAC)



NAND 2V7 VOLTAGE SENSE (VHNC)



VCCIO VOLTAGE SENSE (VCIC)



PMU ADC Assignments

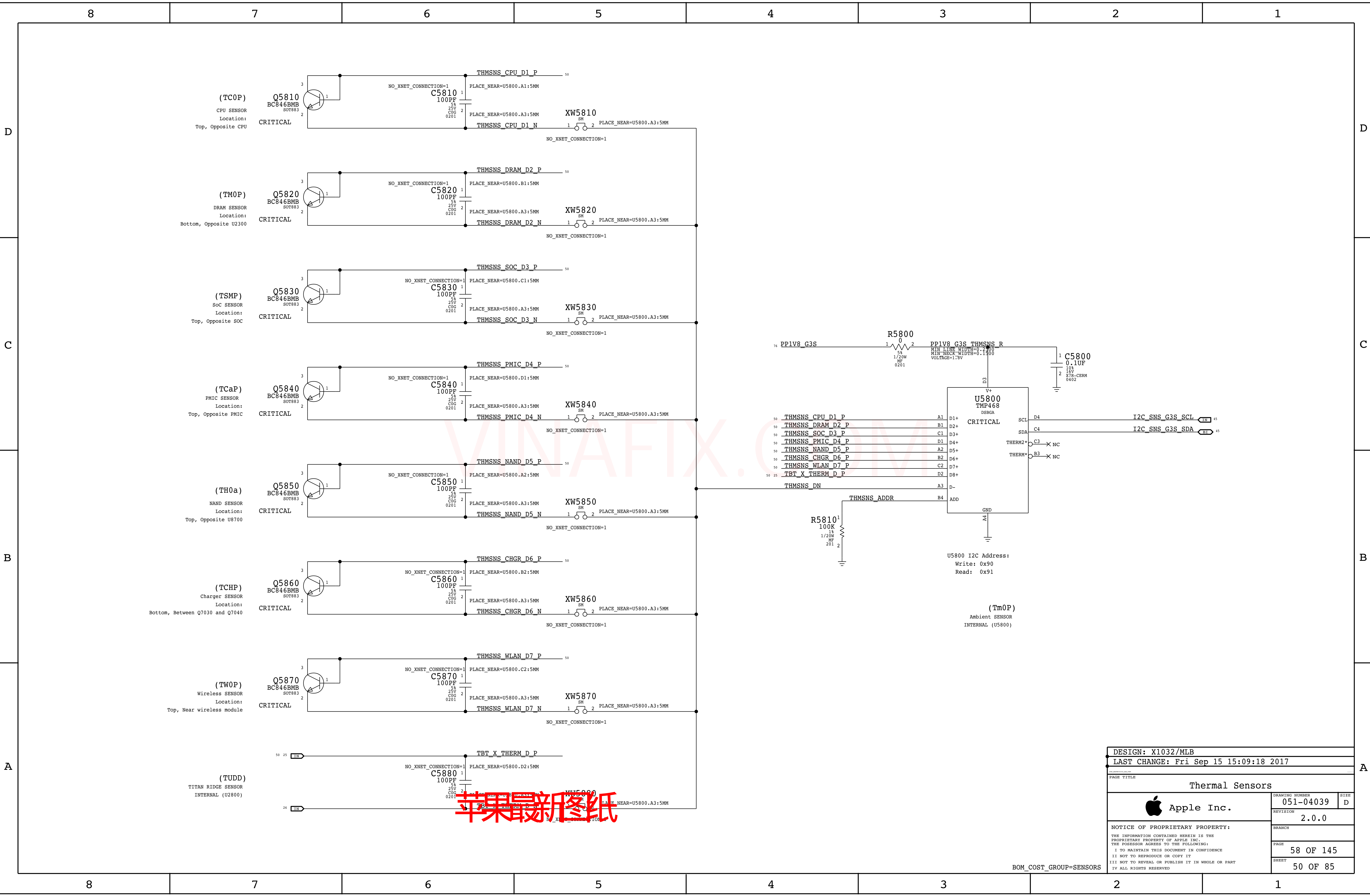
PMU_VDDMAIN_ISENSE	=	PMU_VDDMAIN_ISENSE
NC_PMU_AMUX_A1	=	NC_PMU_AMUX_A1
PMU_WLANBT_ISENSE	=	PMU_WLANBT_ISENSE
NC_PMU_AMUX_A3	=	NC_PMU_AMUX_A3
PMU_LCDBKLT_ISENSE	=	PMU_LCDBKLT_ISENSE
PMU_CPU_VSENSE	=	PMU_CPU_VSENSE
PMU_NAND_VSENSE	=	PMU_NAND_VSENSE
PMU_VCCIO_VSENSE	=	PMU_VCCIO_VSENSE

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Power Sensors Extended

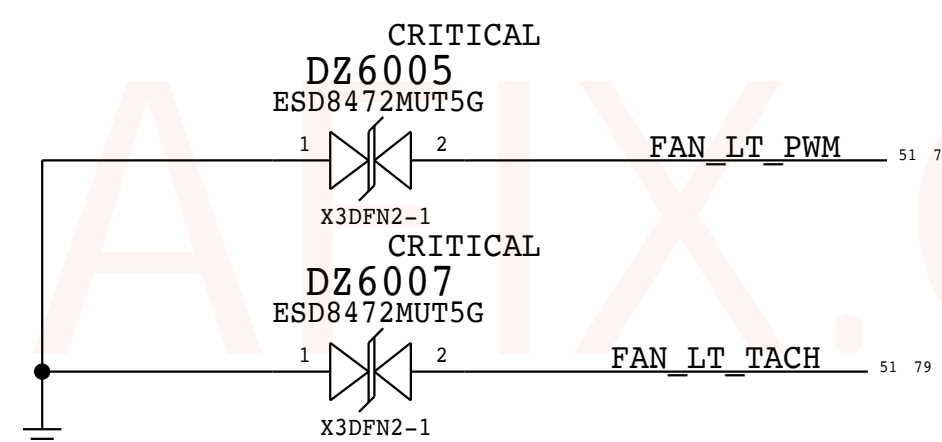
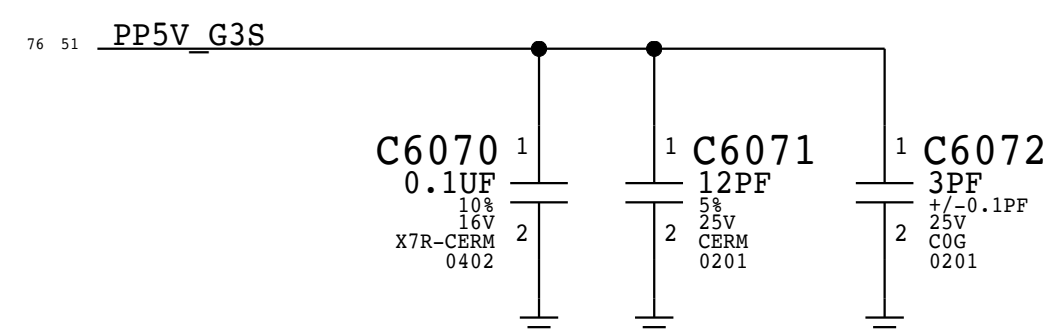
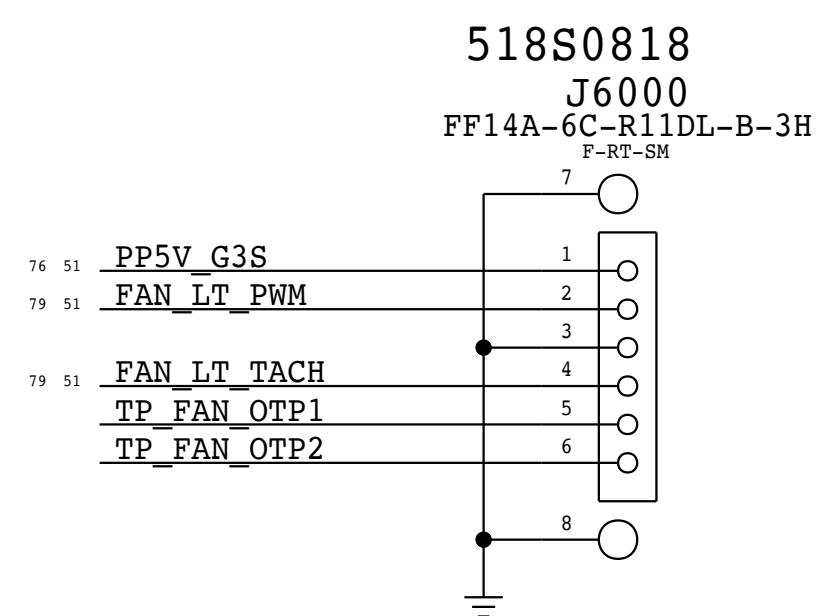
	DRAWING NUMBER	051-04039	SIZE	D
	REVISION	2.0.0		
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	SHEET	49 OF 85		

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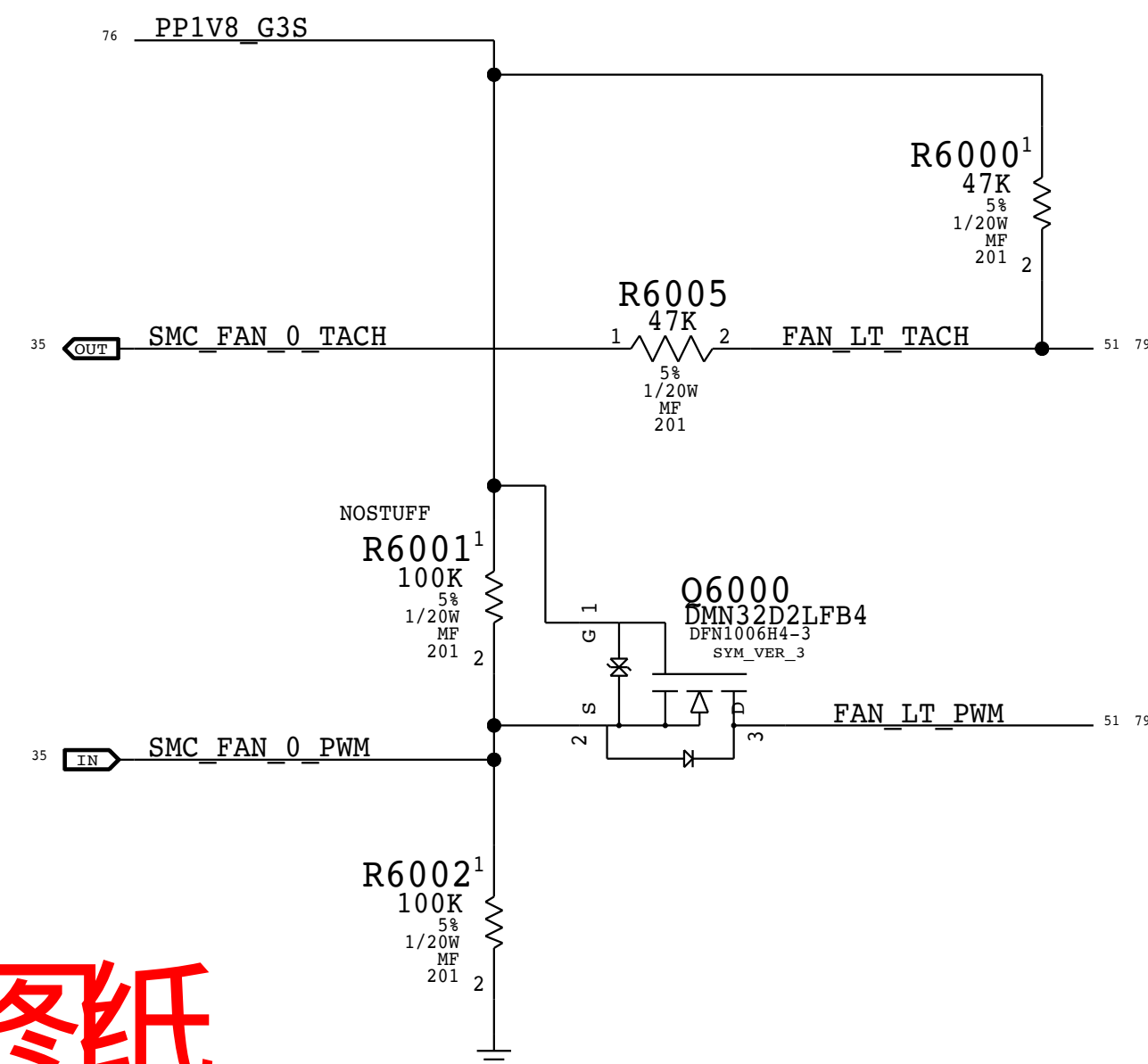


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LAST CHANGE: Fri Sep 15 15:09:18 2017		
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Thermal Sensors		
	DRAWING NUMBER	051-04039
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BOM_COST_GROUP=SENSORS



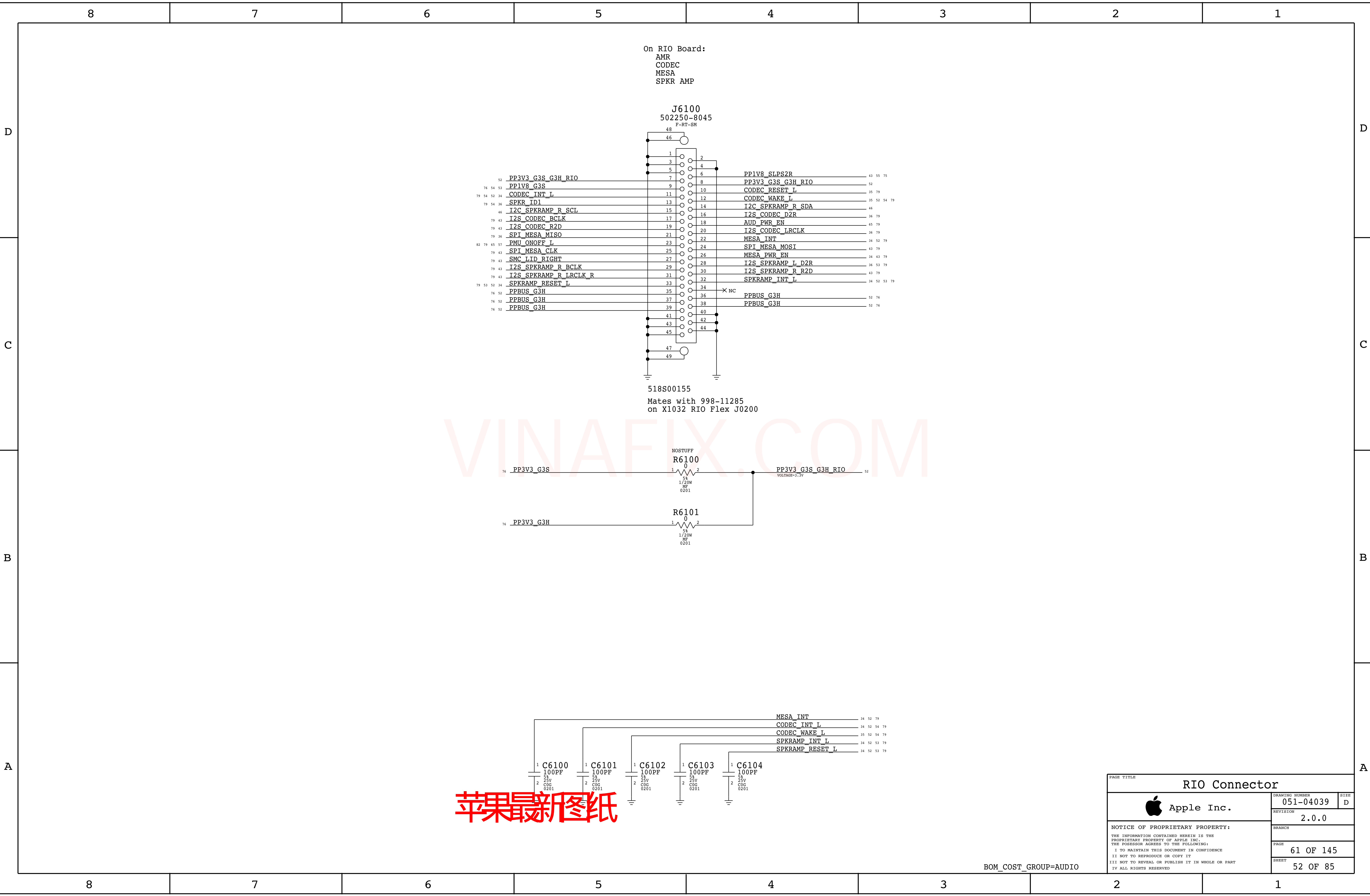
FAN SUPPORT



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SYNC MASTER-X1032_MLB_P4BP		SYNC_DATE=02/13/2017	
PAGE TITLE			
Fans			
 Apple Inc.	DRAWING NUMBER	051-04039	
	REVISION	2.0.0	
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		SHEET	51 OF 85

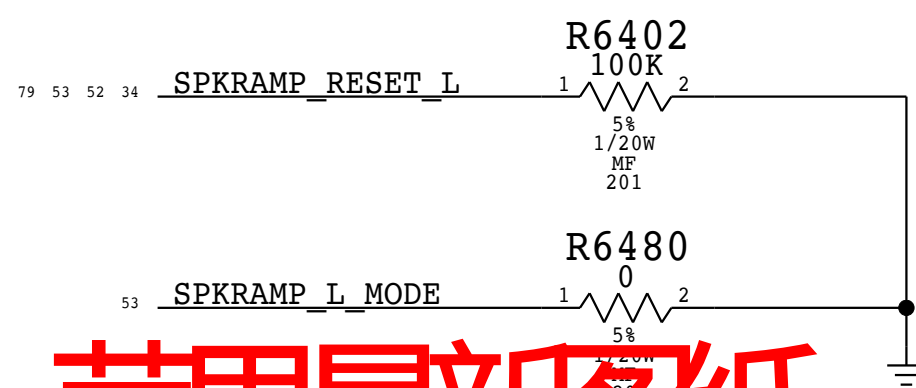
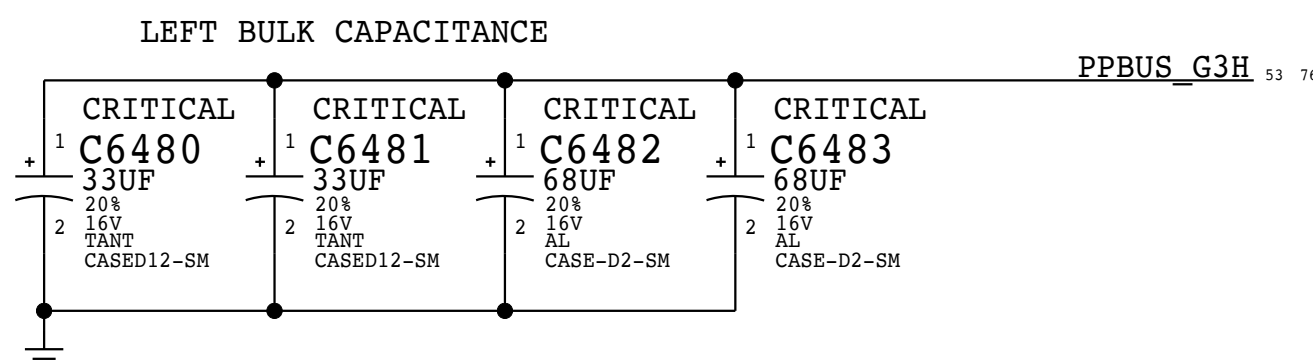
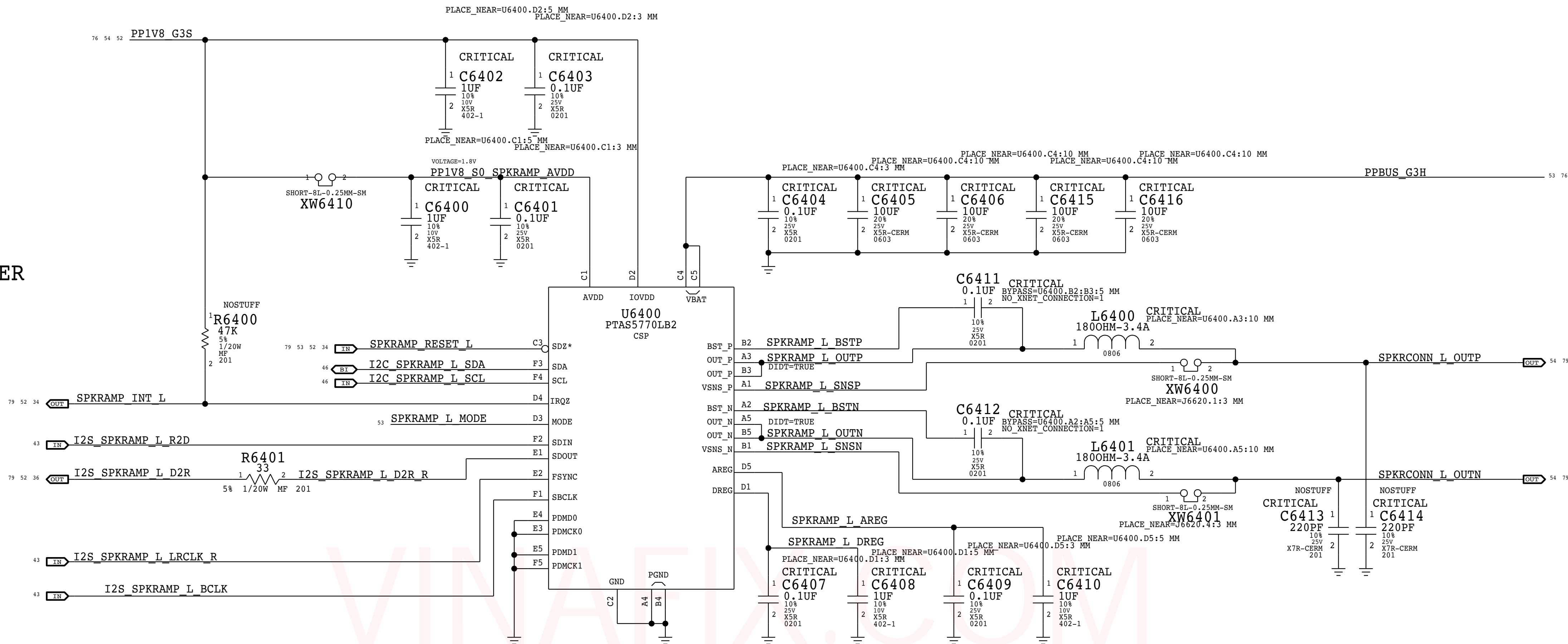
BOM_COST_GROUP=FAN



1X MONO SPEAKER AMPLIFIER

APN: 353S01629
GAIN: 0DBFS = 6.31 VRMS

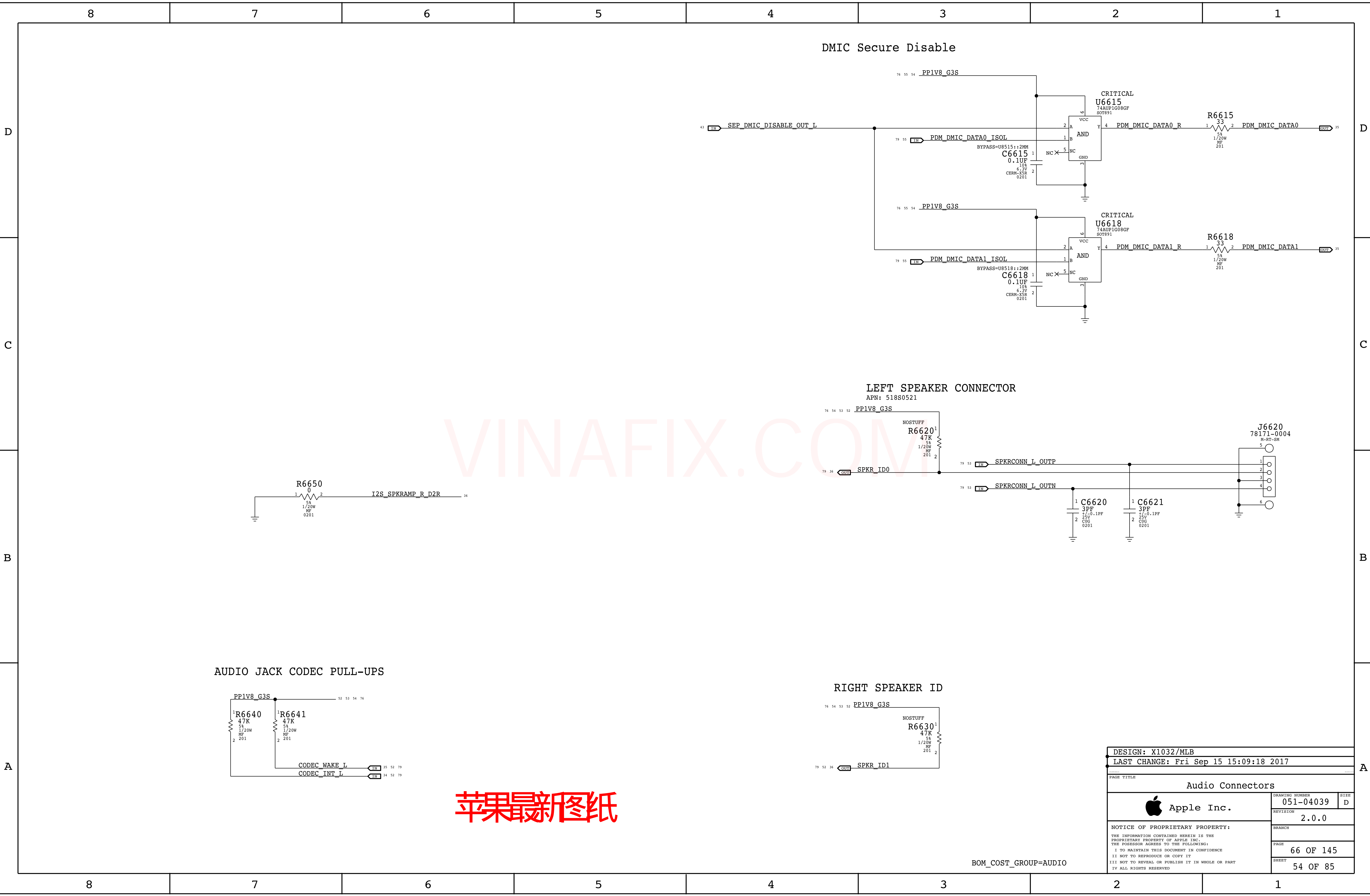
LEFT AMPLIFIER




MODE	PIN	I2C ADDR	CHANNEL
GND		0x31	LEFT
470 to GND		0x32	
470 to IOVDD		0x33	
2k2 to GND		0x34	
2k2 to IOVDD		0x35	
10k to GND		0x36	
10k to IOVDD		0x37	
47k to IOVDD		0x38	RIGHT

BOM_COST_GROUP=AUDIO

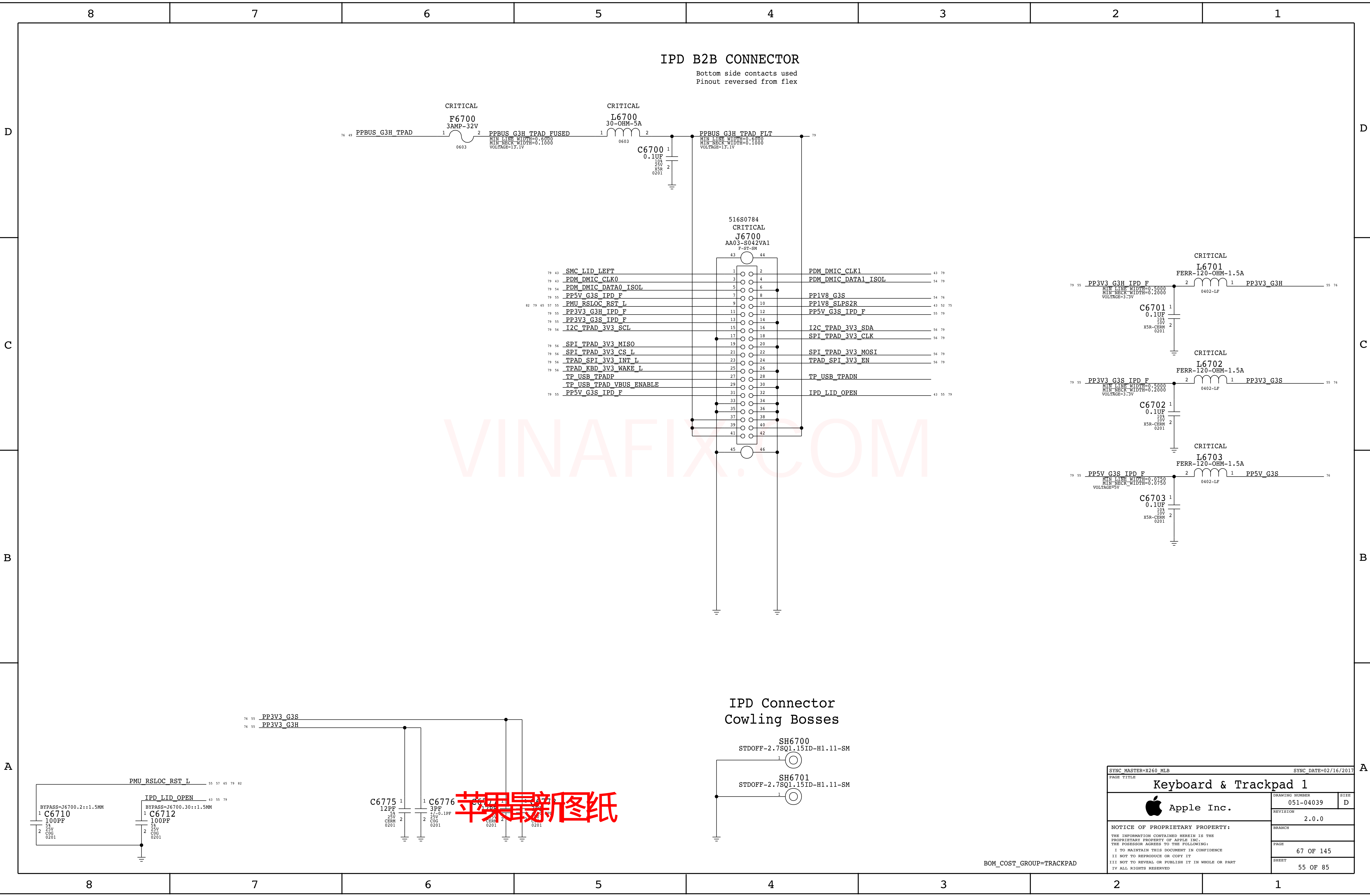
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LAST CHANGE: Fri Sep 15 15:09:18 2017		
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Audio Speaker Amplifiers		
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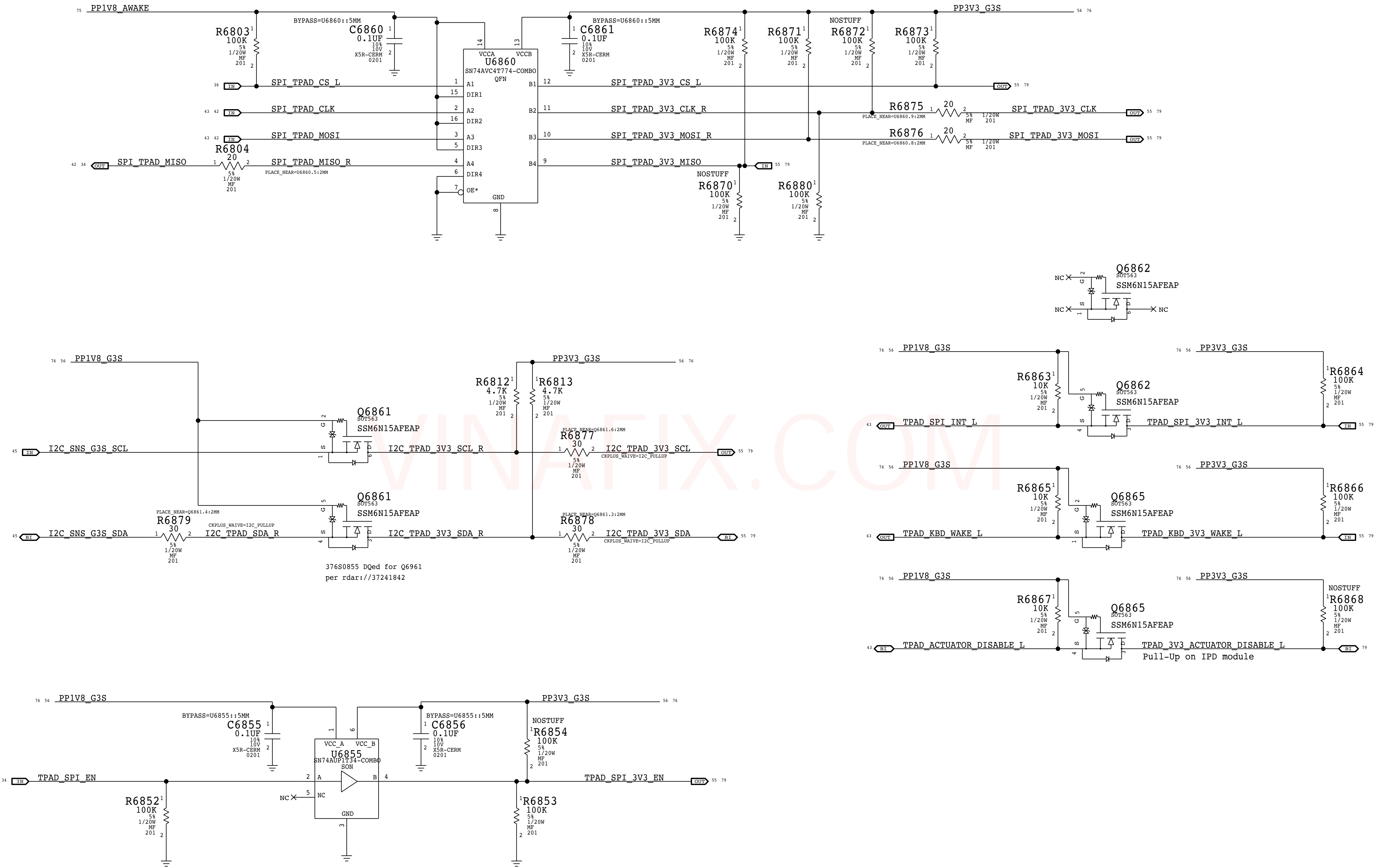
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LAST CHANGE: Fri Sep 15 15:09:18 2017		
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Audio Connectors		
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	PAGE	66 OF 145
	SHEET	54 OF 85

BOM_COST_GROUP=AUDIO




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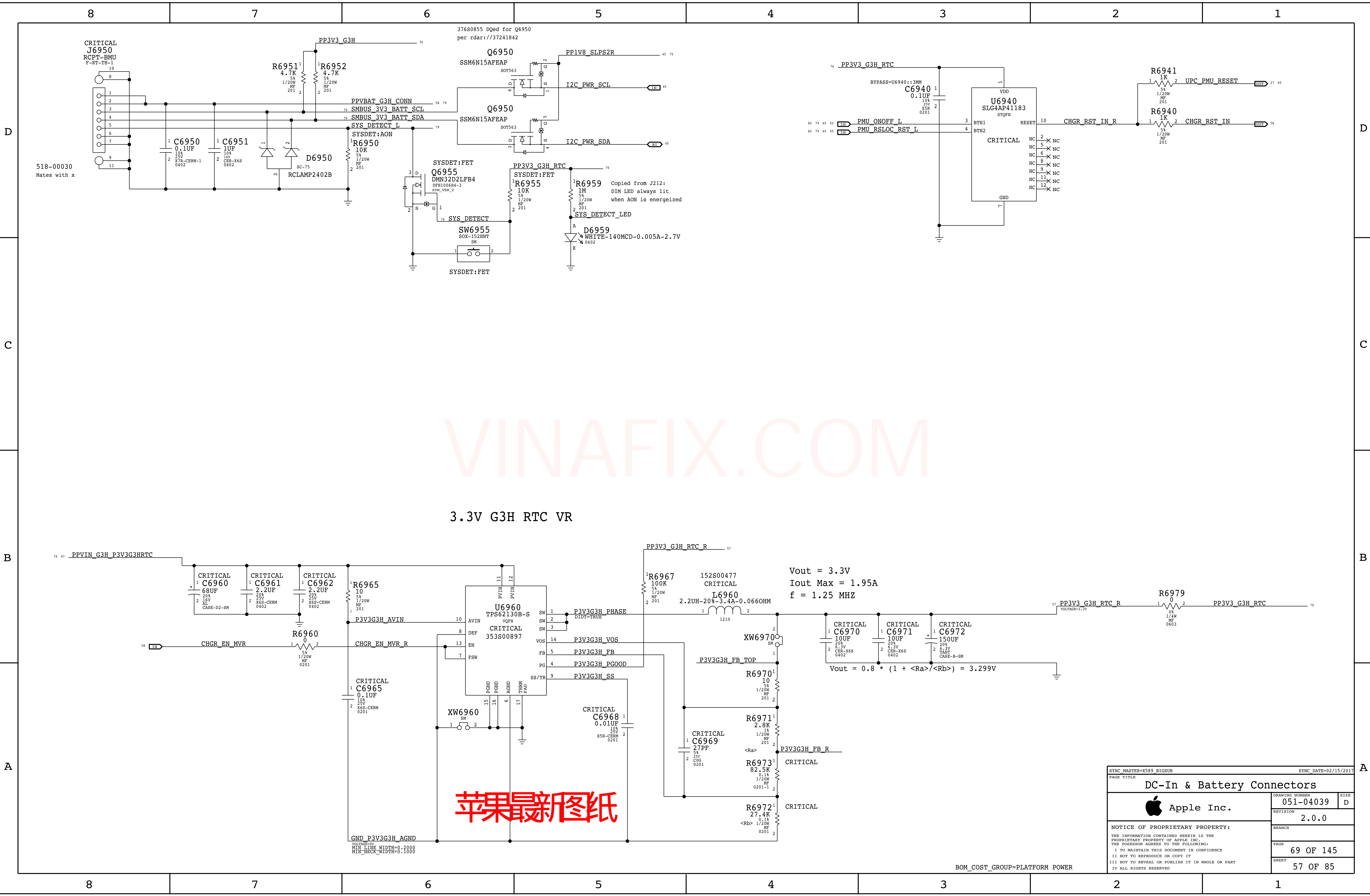
Trackpad Level Shifting



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SYNC_MASTER=X589_CARD_IPD		SYNC_DATE=02/16/2017	
PAGE TITLE			
Keyboard & Trackpad 2			
 Apple Inc.	DRAWING NUMBER		SIZE
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BOM_COST_GROUP=TRACKPAD



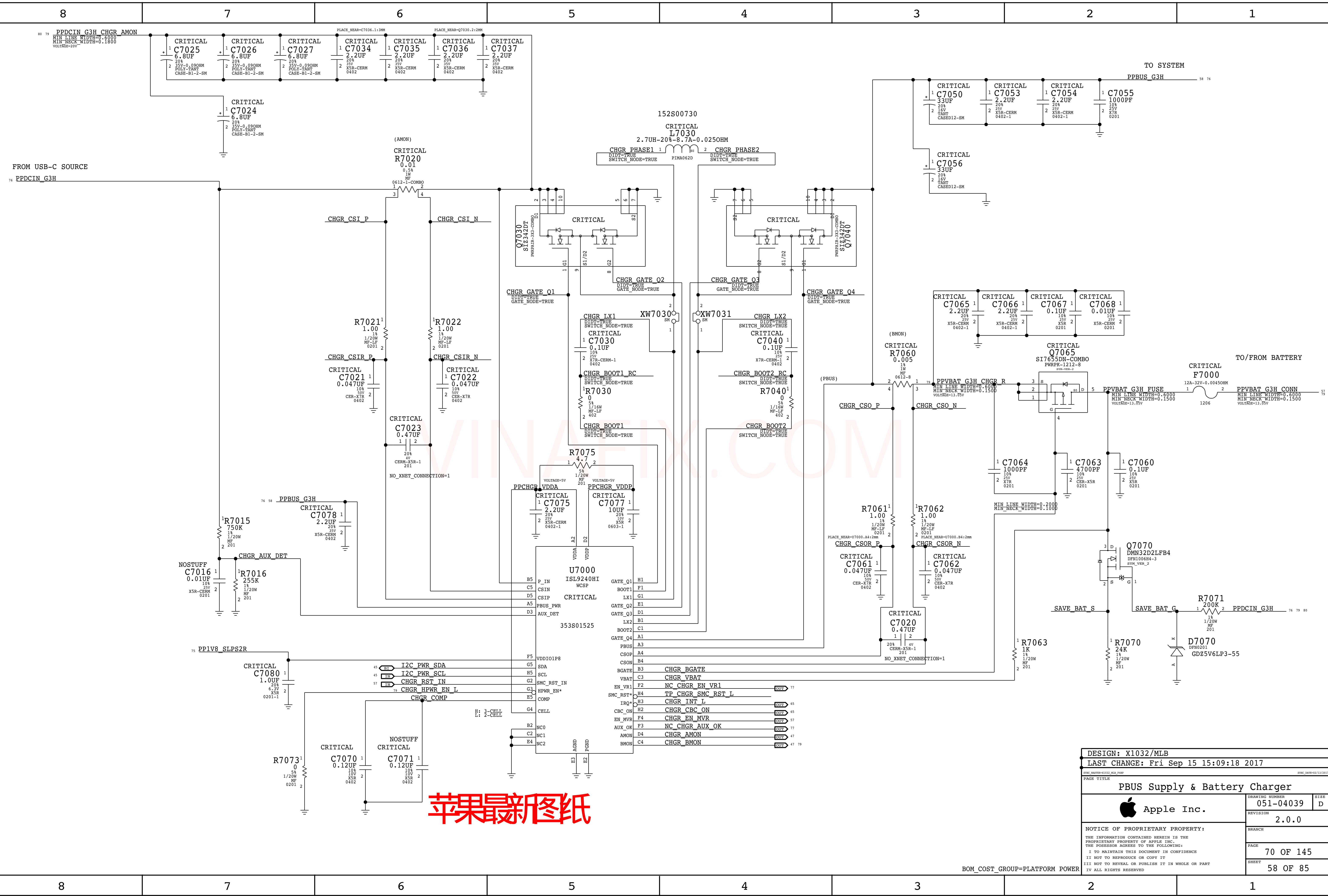
VINAFIX.COM

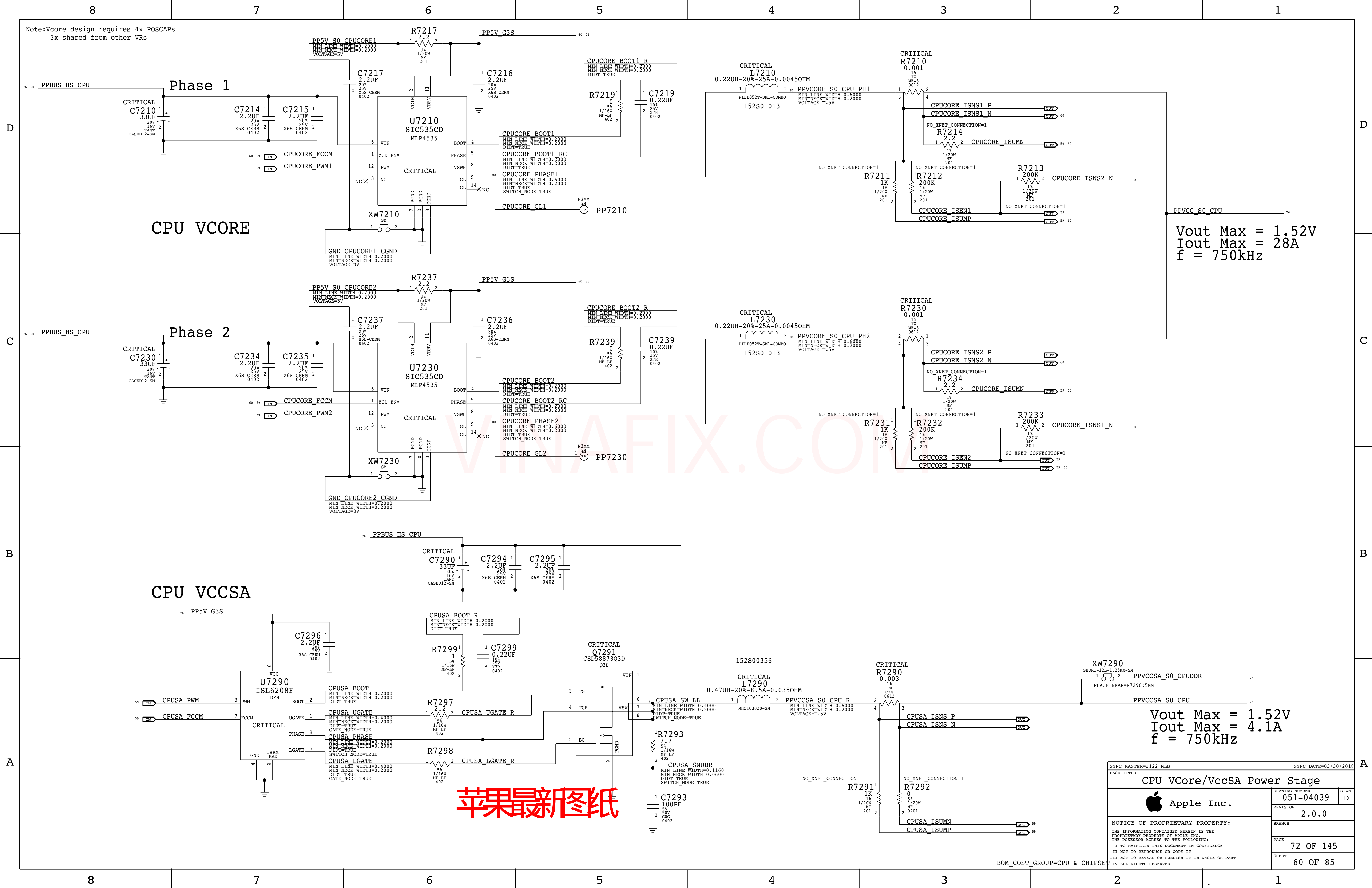
3.3V G3H RTC VR

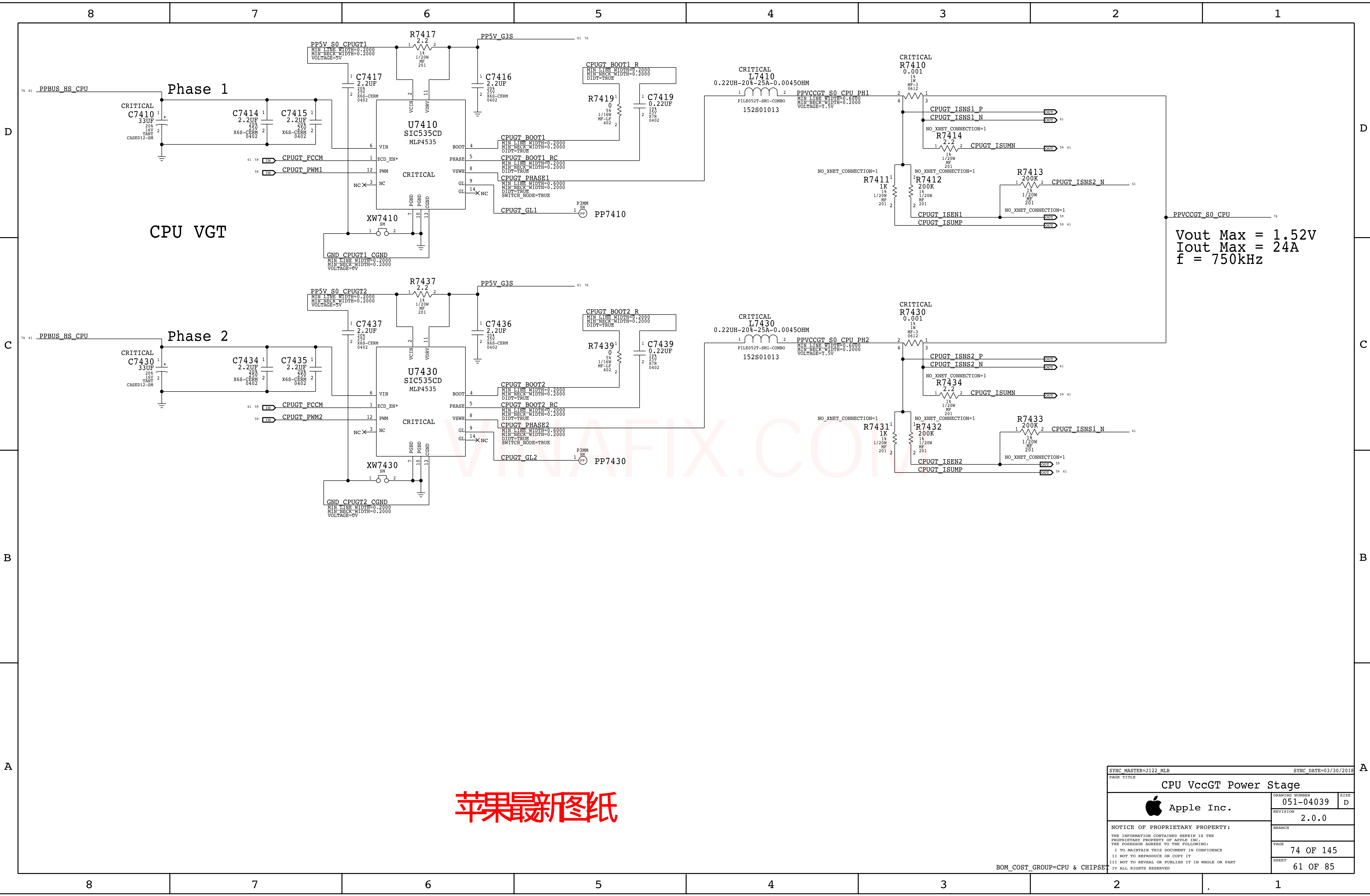
苹果最新图纸

SYNC_MASTER=X589 BIGSUR		SYNC_DATE=02/15/2017	
PAGE TITLE			
DC-In & Battery Connectors			
 Apple Inc.	DRAWING NUMBER		SIZE
	051-04039		D
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	BRANCH		
	PAGE		69 OF 145
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BOM_COST_GROUP=PLATFORM POWER







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SYNC_MASTER=J122_MLB		SYNC_DATE=03/30/2018	
PAGE TITLE			
CPU VccGT Power Stage			
 Apple Inc.	DRAWING NUMBER	051-04039	SIZE D
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BOM_COST_GROUP=CPU & CHIPSET


5V G3S

Vout = 5.1V
Iout Max = 6.3A
F = 500 KHZ

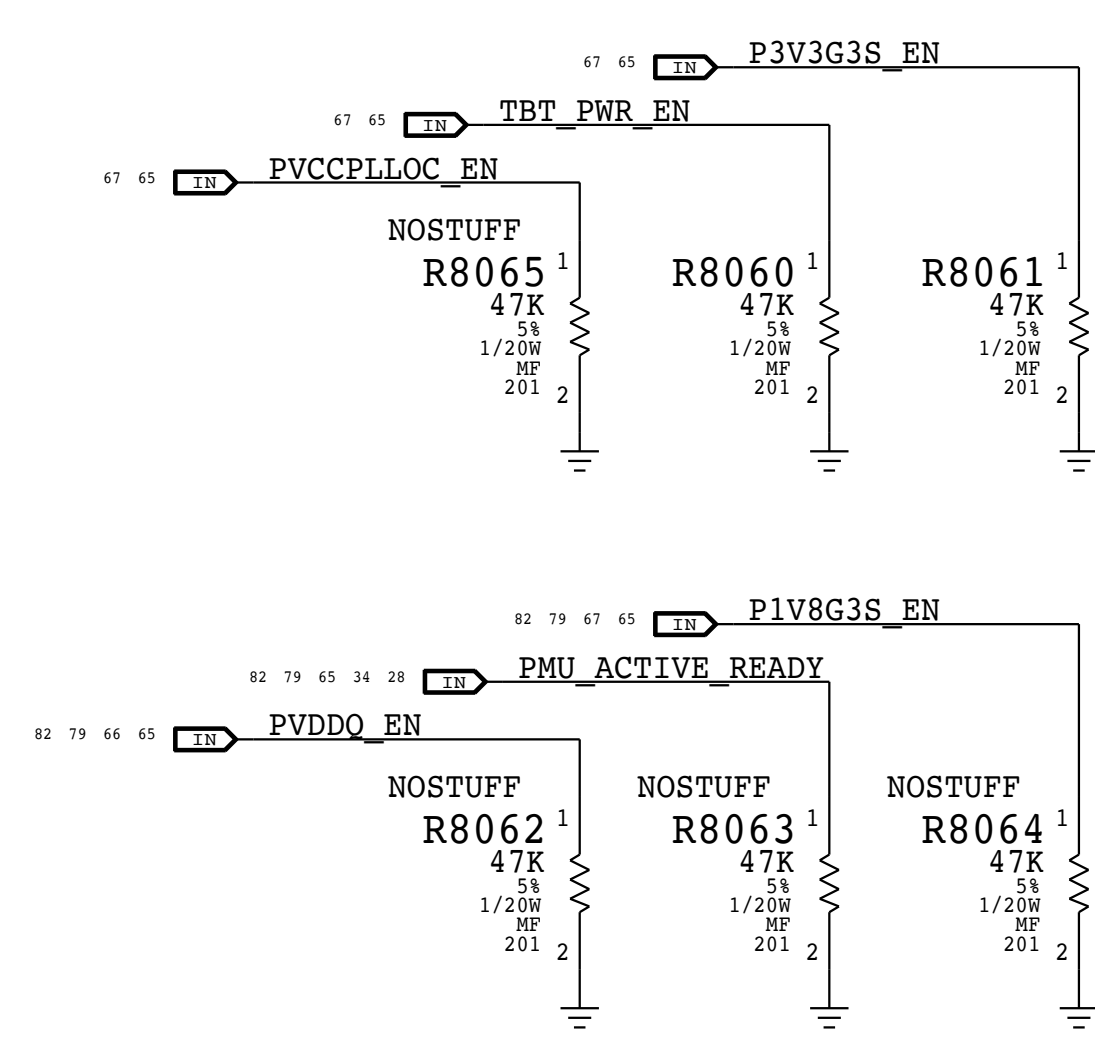
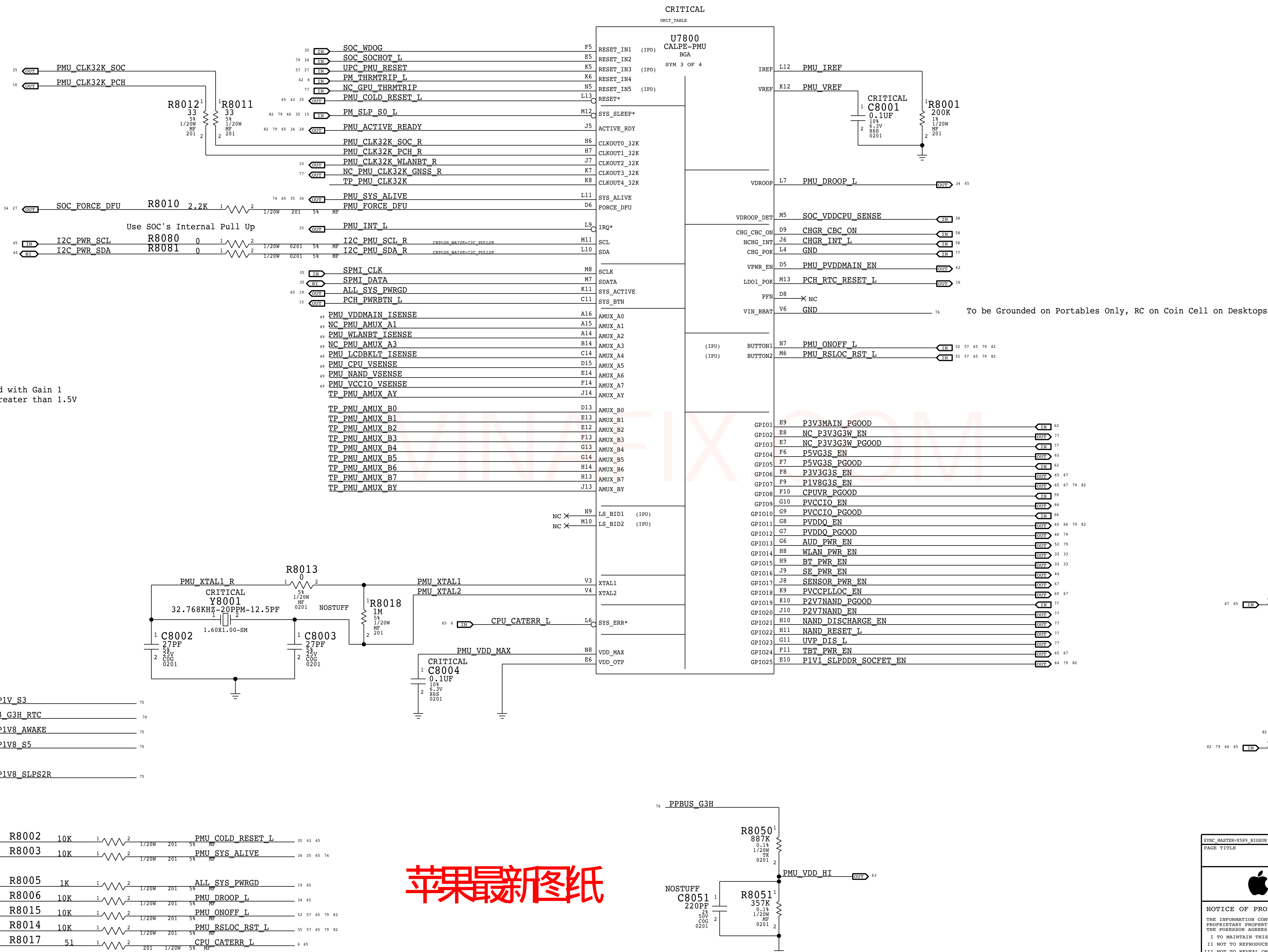
3V3 G3H


Vout = 3.3V
Iout Max = 10.9A
F = 500 KHZ

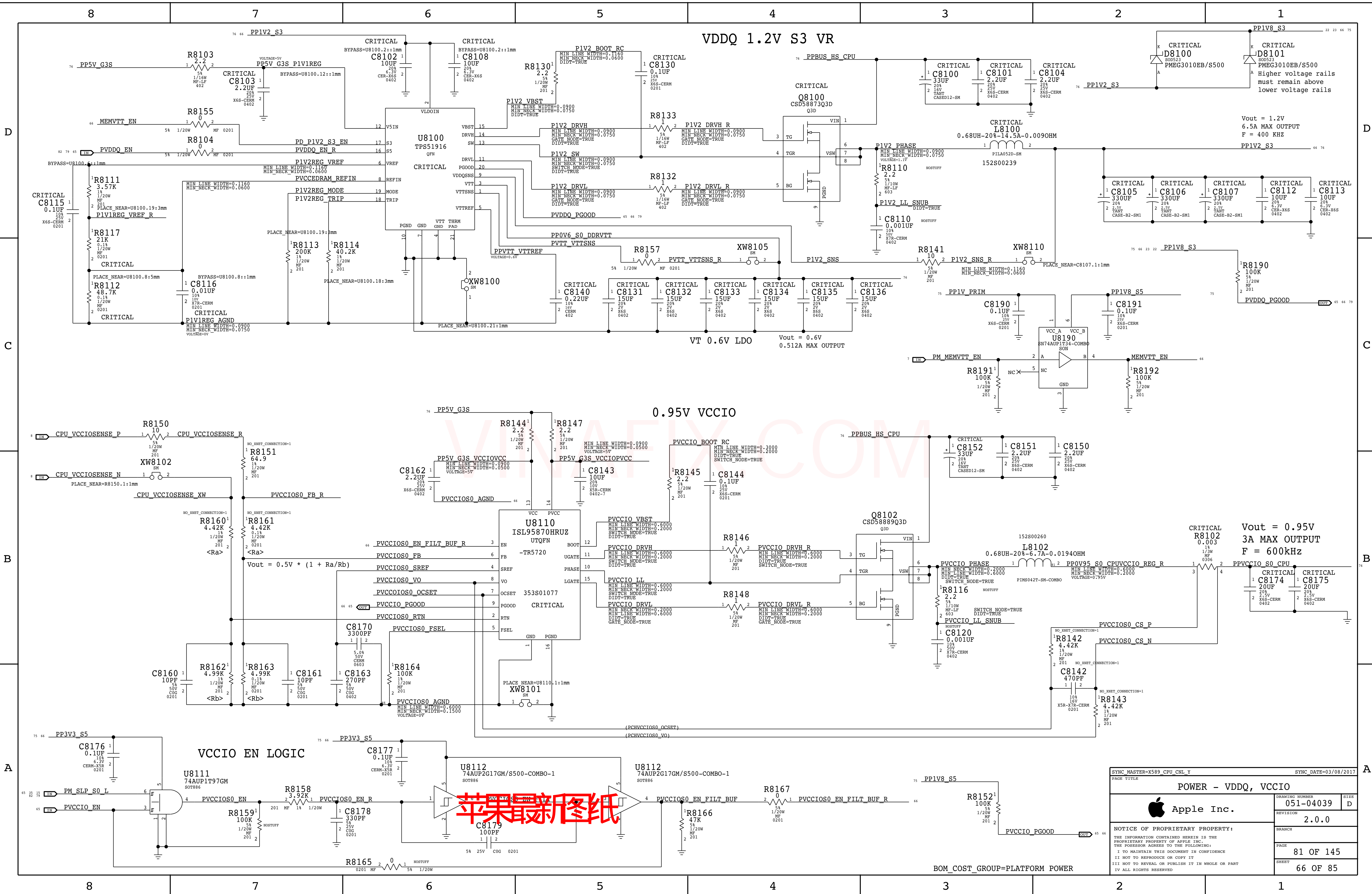
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SYNC MASTER=X589 BIGSUR		SYNC DATE=03/01/2017	
PAGE TITLE			
VR - 5V, 3V3			
 Apple Inc.	DRAWING NUMBER		SITE
	051-04039		D
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	BRANCH		
	PAGE	76 OF 145	
	SHEET	62 OF 85	

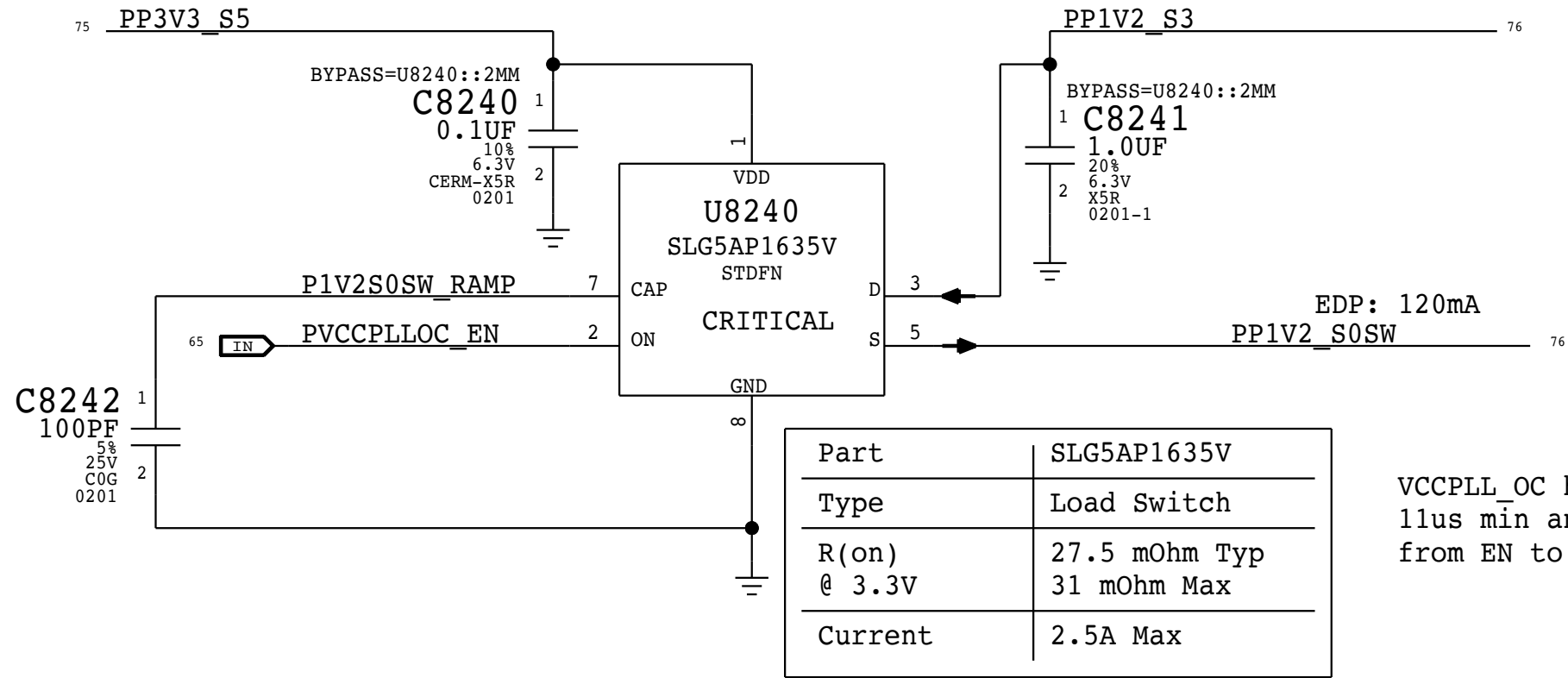
BOM_COST_GROUP=PLATFORM POWER



STW_MASTER#589 BIGSUR		STW_DATE#03/16/2017	
PAGE TITLE			
PMIC GPIOs & Control			
 Apple Inc.	DRAWING NUMBER		SIZE
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		SHEET	
		65 OF 85	

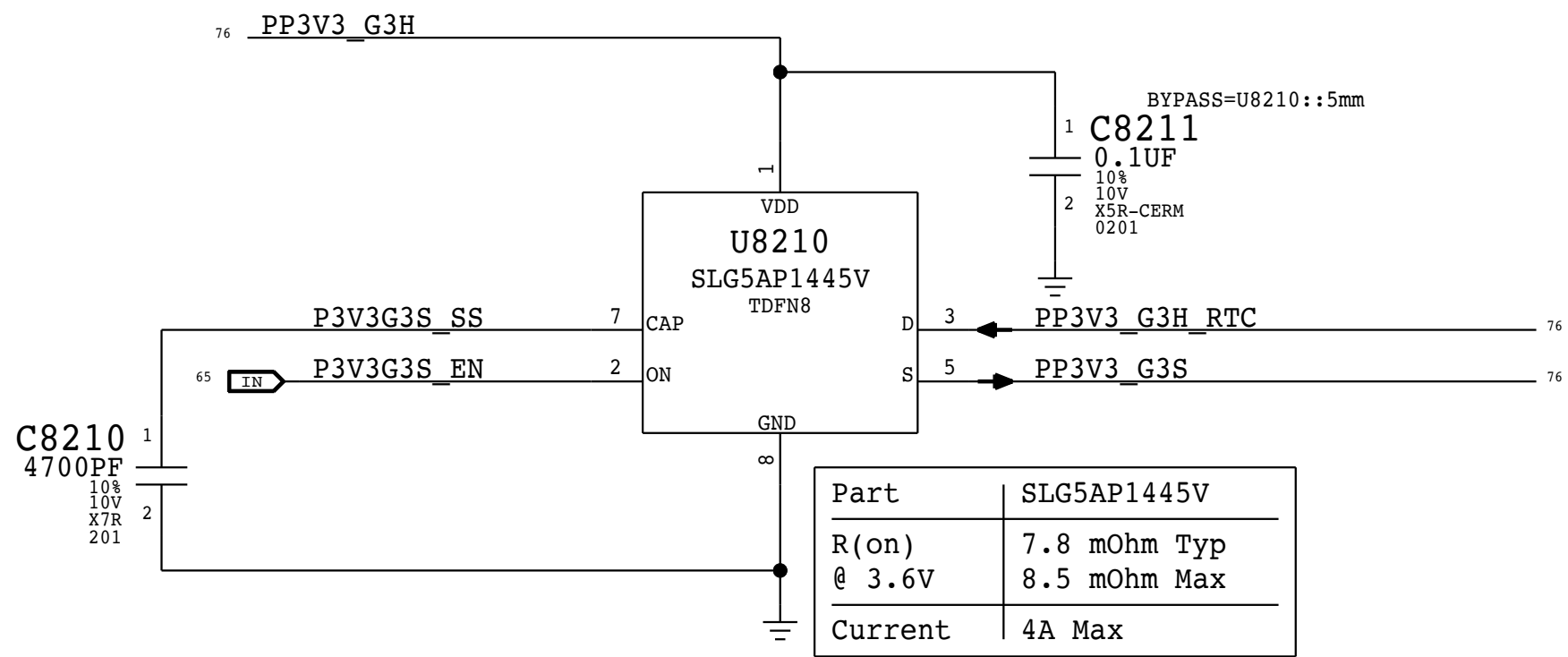


1.2V S0SW VCCPLL_OC Switch

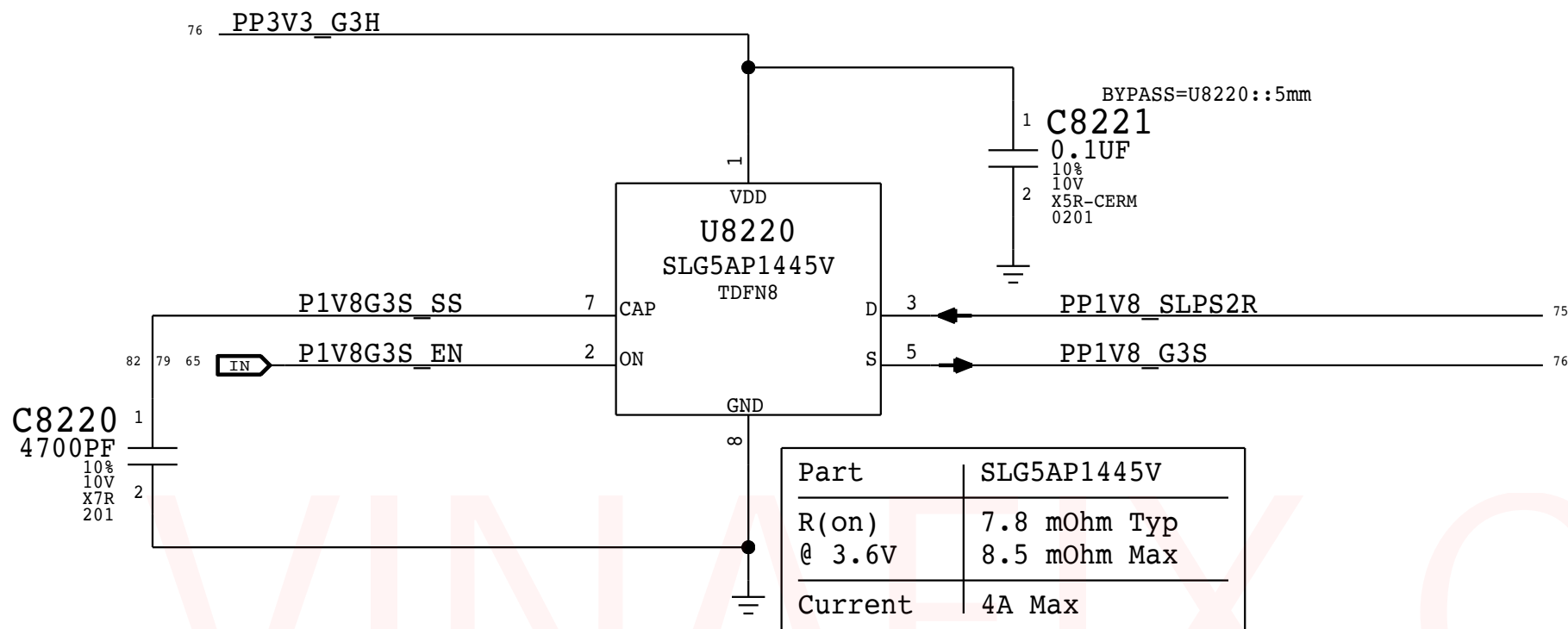


VCCPLL_OC had turn-on requirement of 11us min and 240us max from EN to 1.2V

3.3V G3 Standby Switch

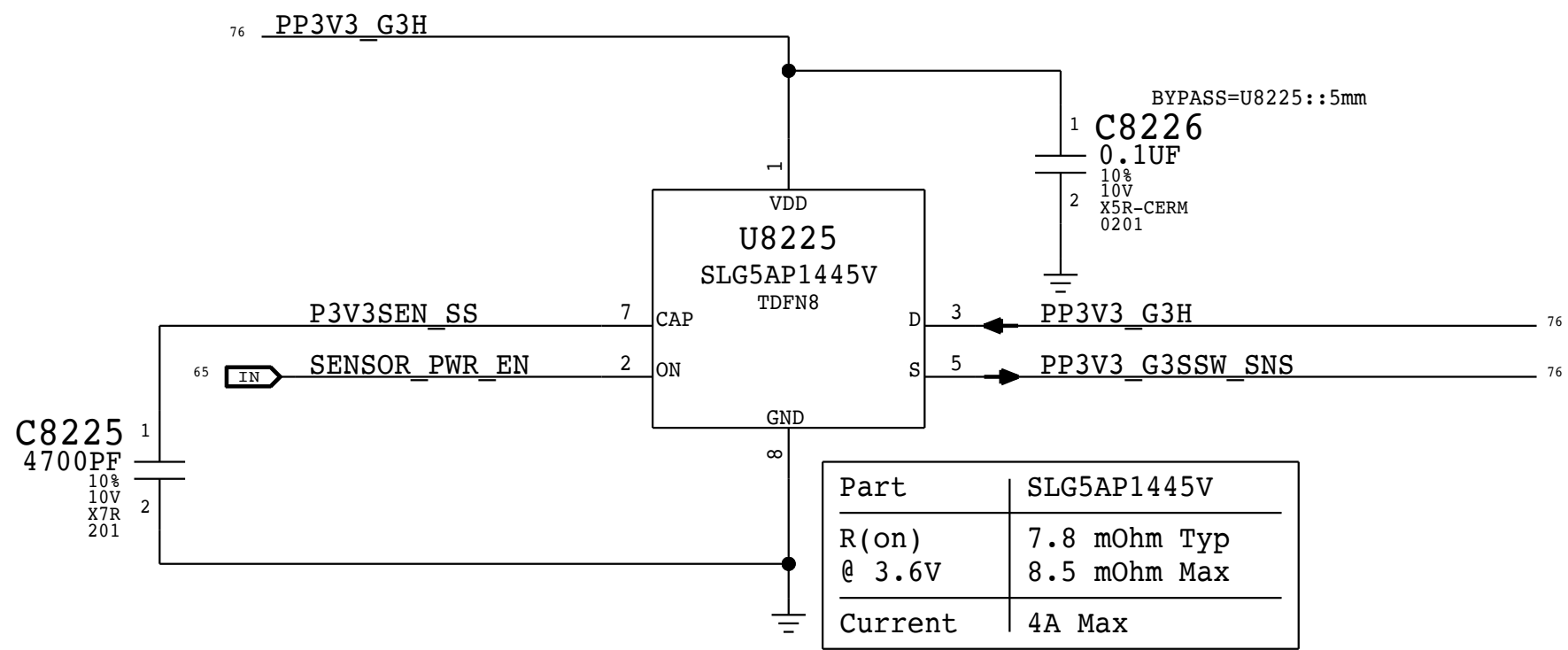


1.8V G3 Standby Switch

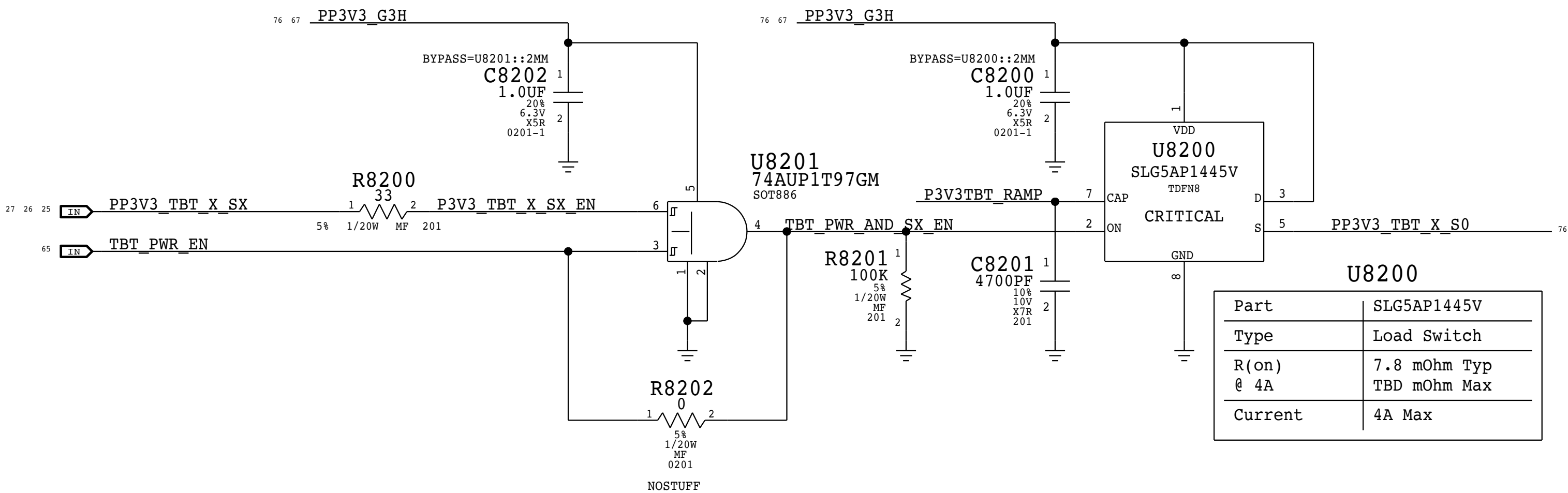


EG: Check load current & shrink switch?

3.3V Sensors Switch




3.3V S0SW TBT Switch



System Power States


System State:	Shutdown (G3H)		Standby (G3S)		Standby (S4)		Sleep (S0i/S3)		Run (S0)	
	CPU/PCH State:		Off (RTC Only)		Standby		Sleep		Run	
Rails	SoC State:		S2R	Awake	S2R	Awake	S2R	Awake	S2R	Awake
PP*_S2R (0.8,1.1,1.8V)	On	On	On	On	On	On	On	On	On	On
PP*_DDR (0.8,0.9,1.1V)	Off	On	Off	On	Off	On	Off	On	On	On
PP*_AWAKE (CPU,SRAM,1.2,1.8,3.3V)	Off	On	Off	On	Off	On	Off	On	On	On
PP3V3_G3H (VR1)	On	On	On	On	On	On	On	On	On	On
PP1S_G3H	On	On	On	On	On	On	On	On	On	On
PP*_G3S (1.8,3.3,5V)	Off	On	On	On	On	On	On	On	On	On
PP*_S5 (1.8,3.3V)	Off	Off	Off	Off	On	On	On	On	On	On
CPU/PCH VRs	Off	Off	Off	Off	Off/On	Off/On	Off/On	Off/On	On	On

* System: Shutdown Awake is a transition state only.
* SoC: SLP_DDR is a transition state only.
* CPU/PCH: S4 is only used by desktops for USB wakes.
* CPU/PCH: S5 is a transition state. May also be used for RTC wakes.

PAGE TITLE		
Power FETs		
 Apple Inc.	DRAWING NUMBER	051-04039
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	PAGE	82 OF 145
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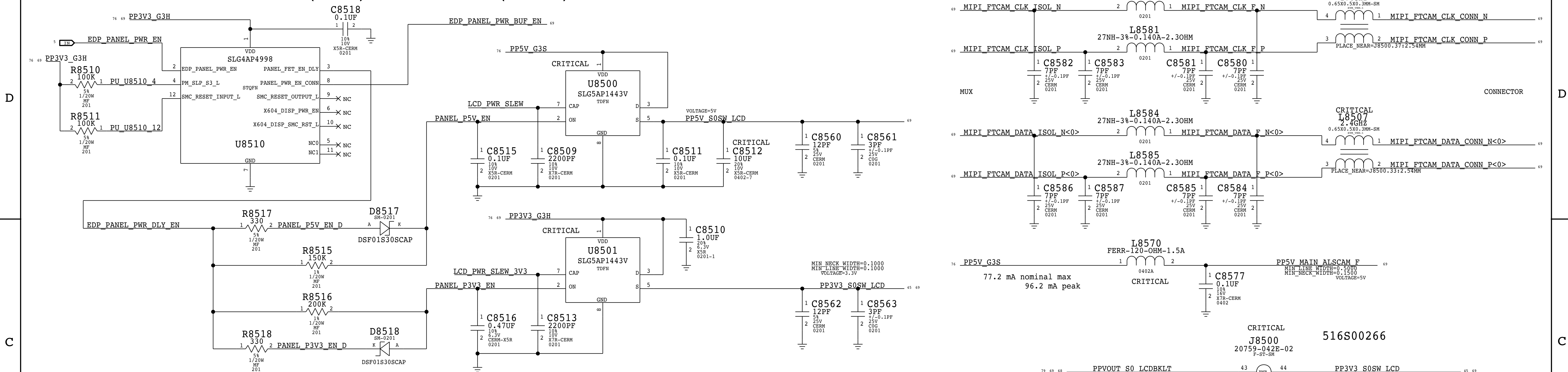
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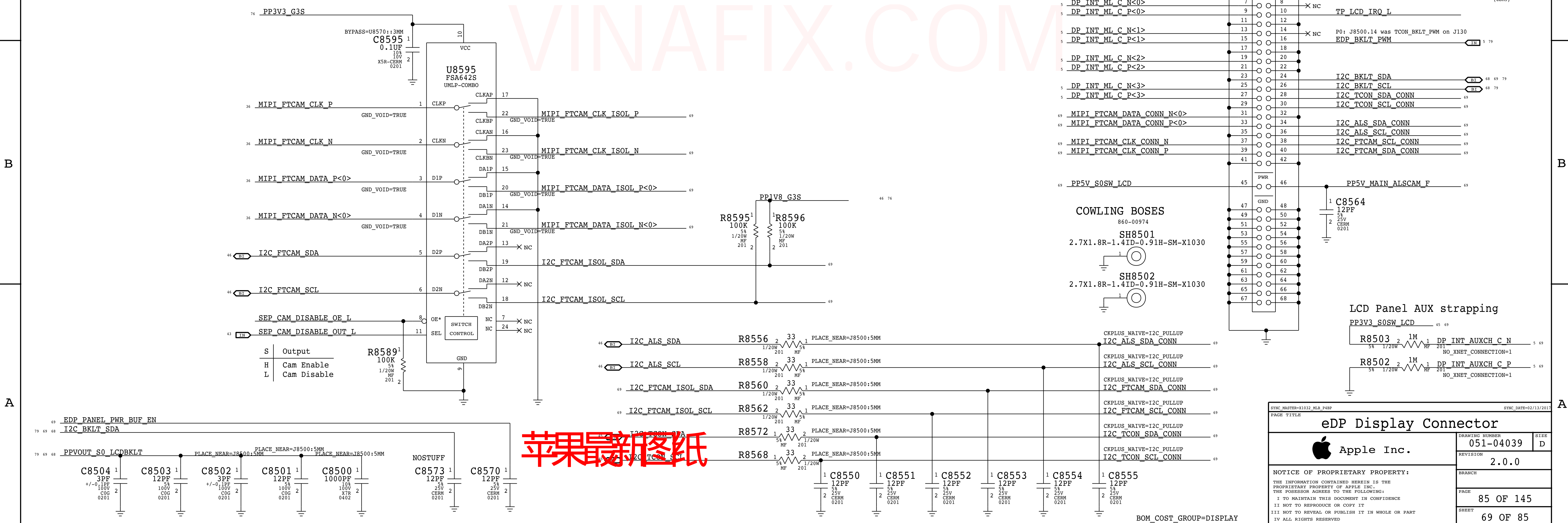
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BOM_COST_GROUP=DISPLAY

LCD PANEL INTERFACE (eDP) + Camera (MIPI)



FTCAM Secure Disable



8	7	6	5	4	3	2	1
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A

Diagram showing two circuit sections:

Left Section:

- Input pins: 208, 208, 208
- Labels: CERM-X6S, X5R, 0402, 6.3V, 0201
- Ground connection.

Right Section:

- Input pins: 208, 108
- Labels: X5R-CERM, 0201-1, 10V, 0201
- Ground connection.

Center Section:

- Signal path: SSD0_S4E0 AVDD18_PLL
- Capacitors: C8646 (1.0UF), C8647 (0.1UF)
- Labels: CRITICAL, 20%, 10V, X5R-CERM, 0201-1

Watermark: 苹果最新图纸

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BOM_COST_GROUP=SSD

		BOM_COST_GROUP=SSD		III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED		SHEET 70 OF 85	
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S4E1

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C

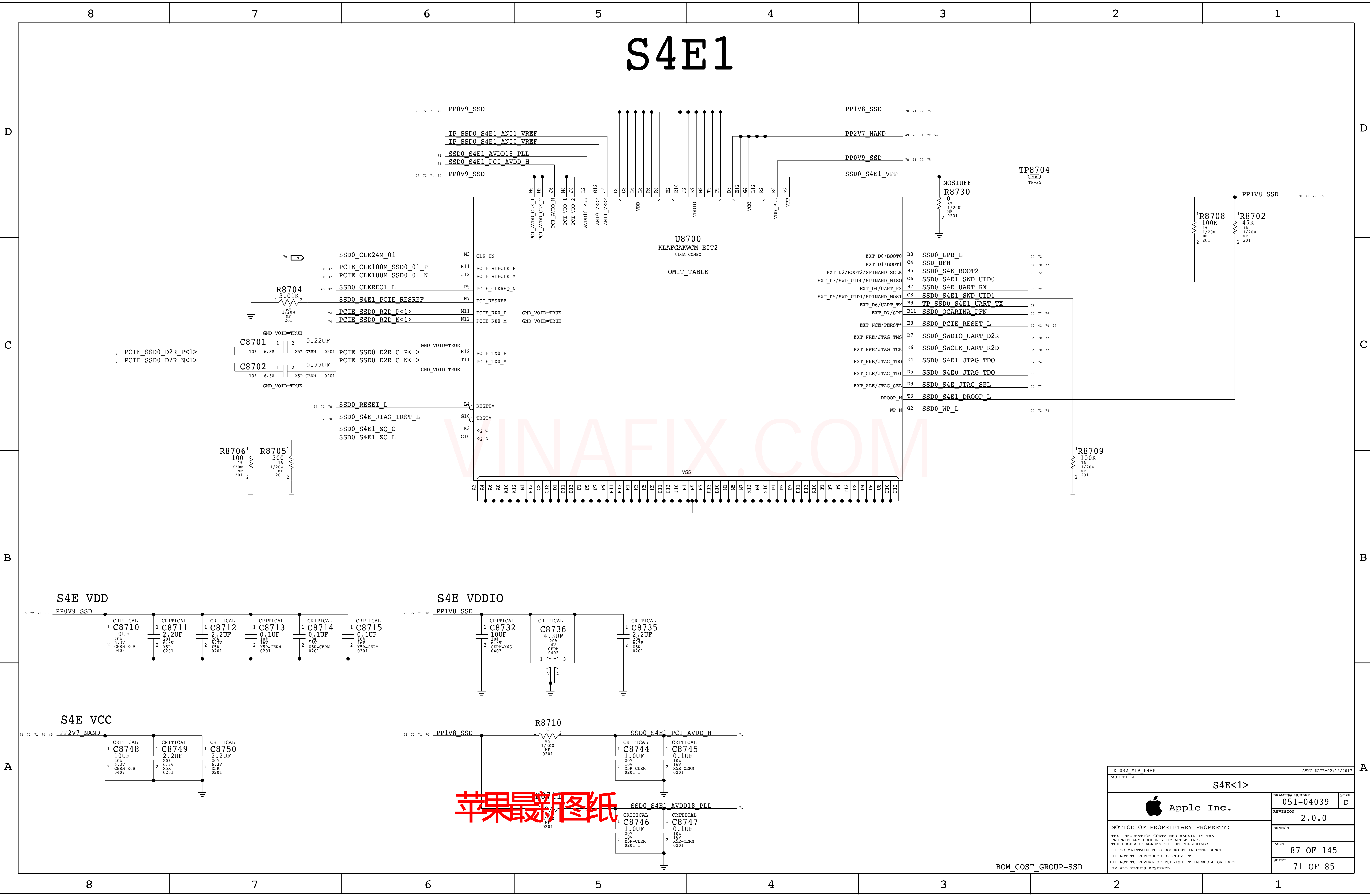
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A

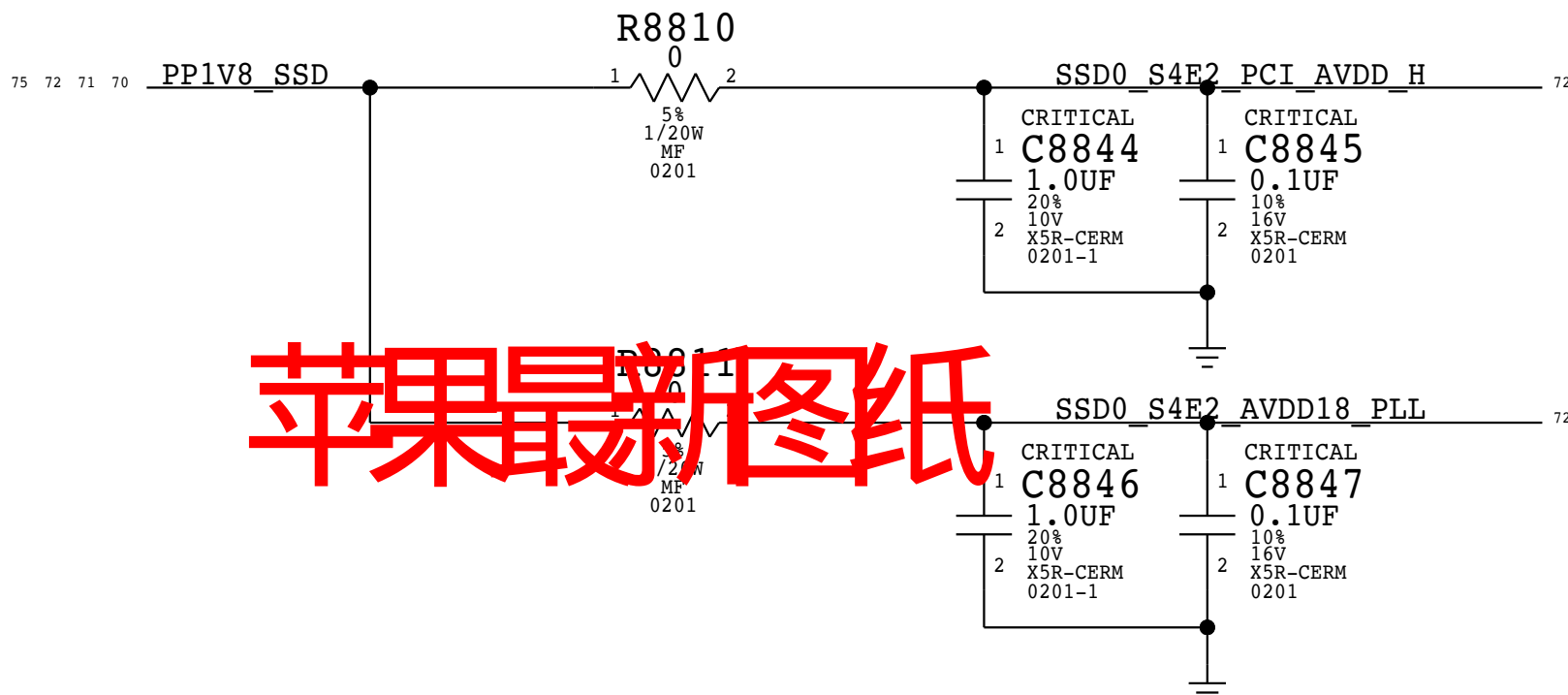
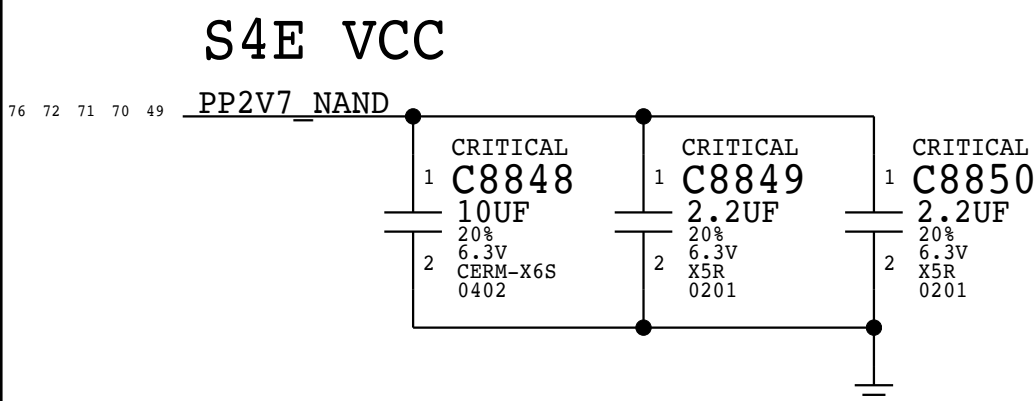
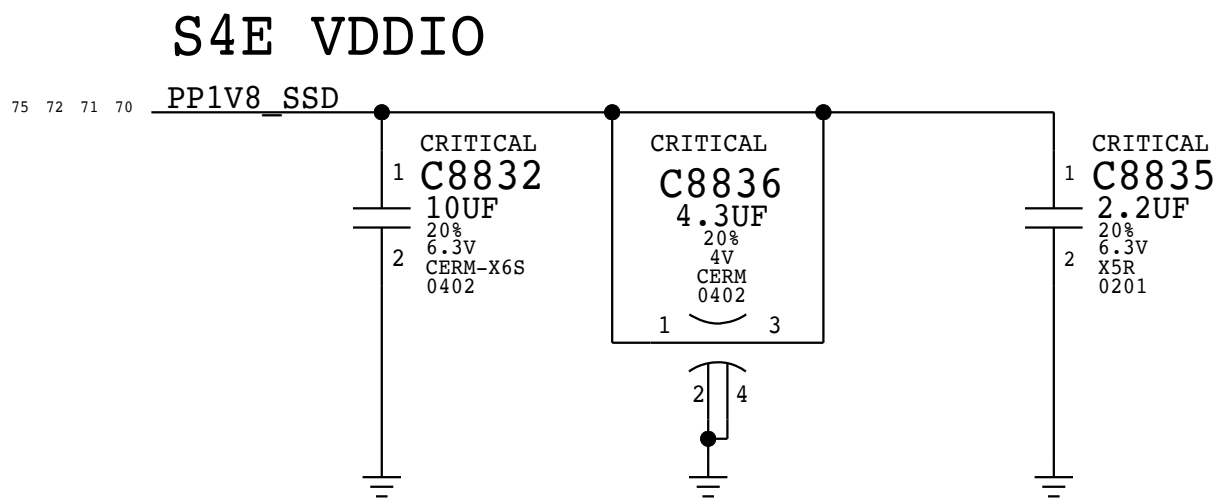
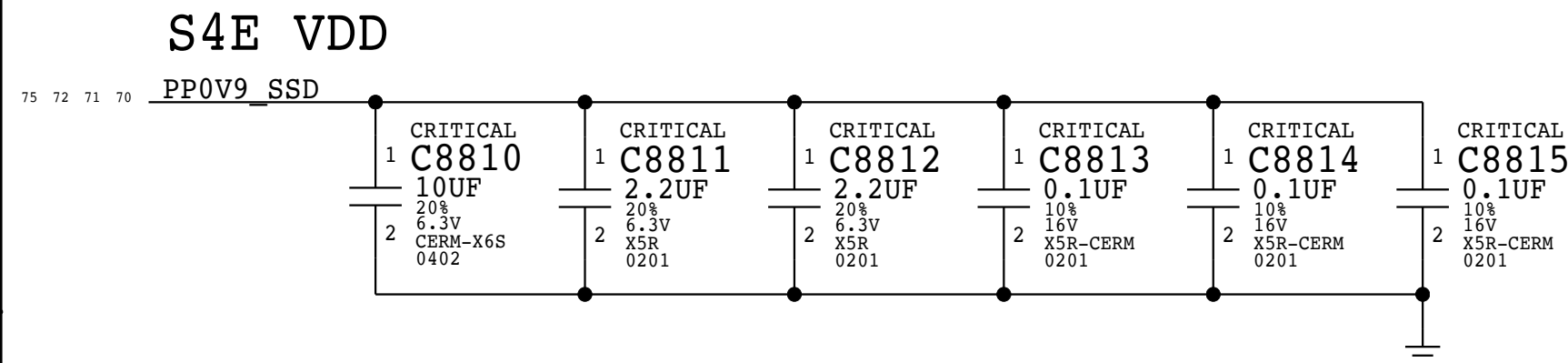
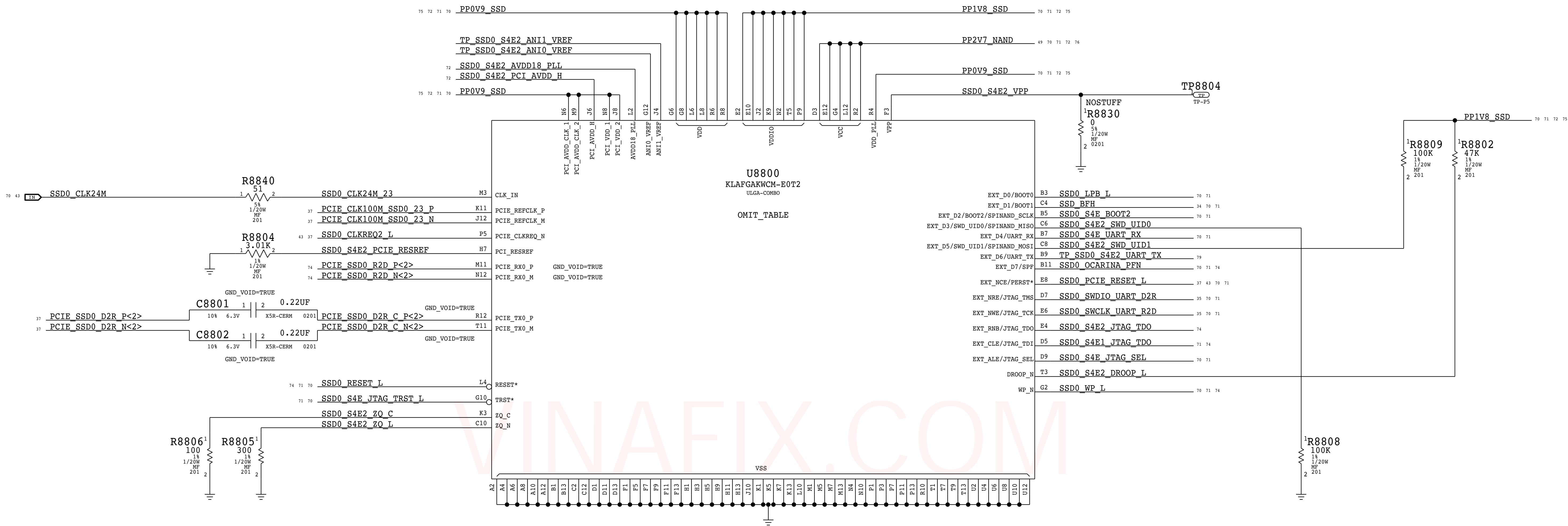


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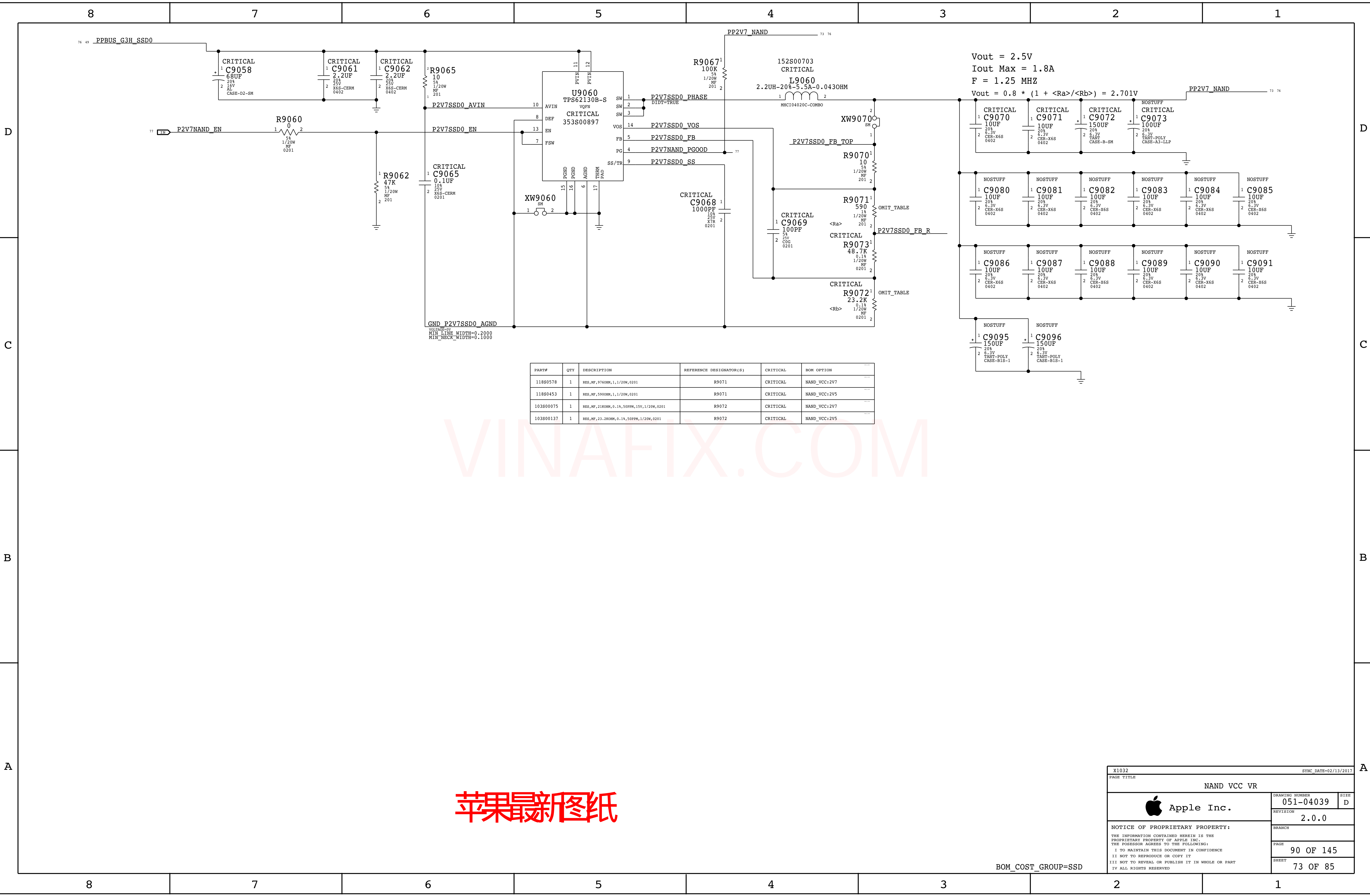
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	BRANCH		
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S4E2




X1032_MLB_P4BP			SYNC DATE=02/14/2017		
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NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE I NOT TO REPRODUCE OR COPY IT I NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART I ALL RIGHTS RESERVED			BRANCH		
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BOM_COST_GROUP=SSD

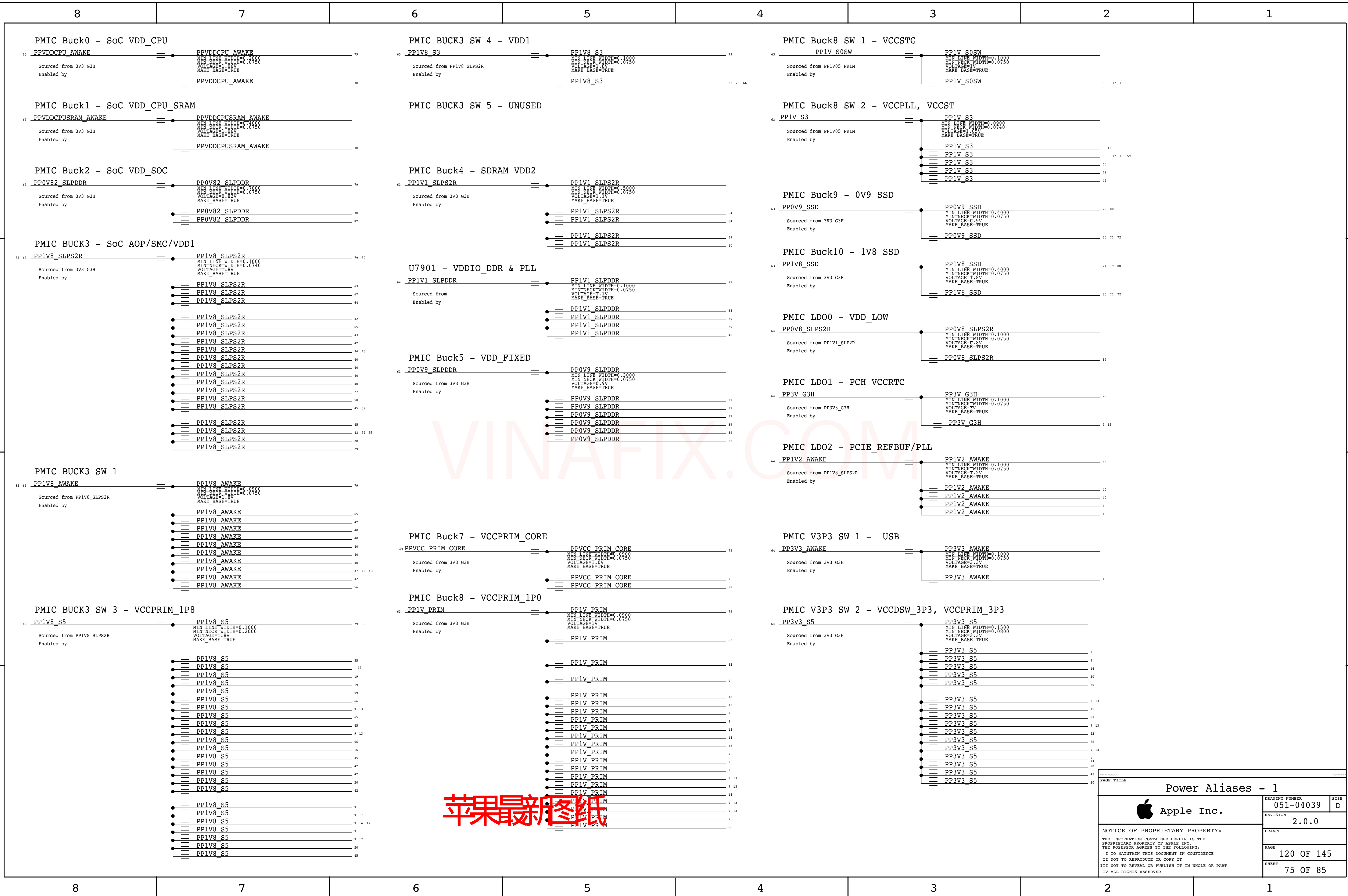


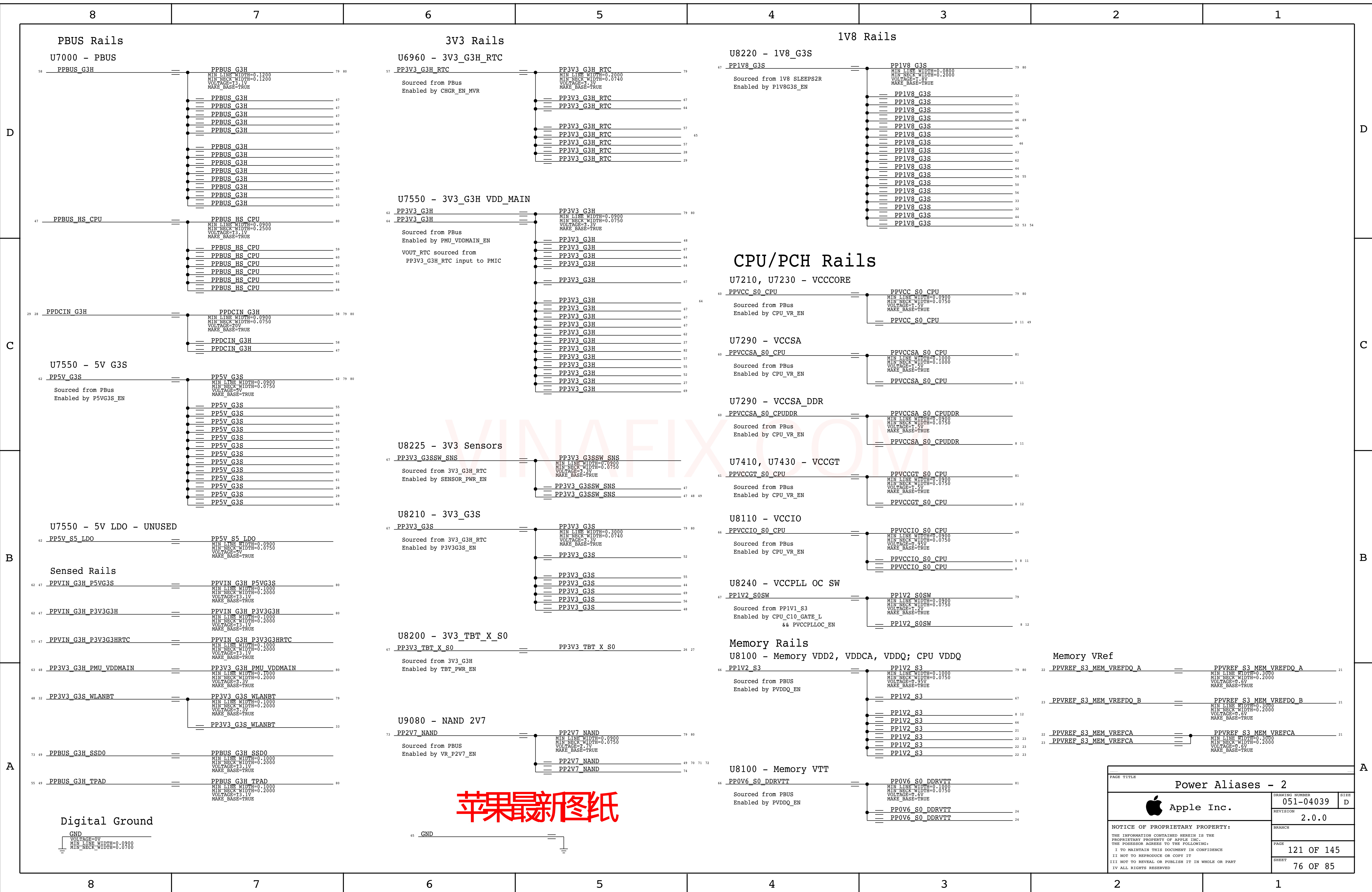
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X1032PAGE TITLE			SYNC DATE=02/13/2017		
NAND VCC VR					
 Apple Inc.			DRAWING NUMBER	051-04039	SIZE
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PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
118S0578	1	RES,MF,9760HM,1,1/20W,0201	R9071	CRITICAL	NAND_VCC:2V7
118S0453	1	RES,MF,5900HM,1,1/20W,0201	R9071	CRITICAL	NAND_VCC:2V5
103S00075	1	RES,MF,2180HM,0.1%,50PPM,15V,1/20W,0201	R9072	CRITICAL	NAND_VCC:2V7
103S00137	1	RES,MF,23.2K0HM,0.1%,50PPM,1/20W,0201	R9072	CRITICAL	NAND_VCC:2V5

BOM_COST_GROUP=SSD





8

7

6

5

4

3

2

1

Unused CPU/PCH Signals

16

NC_USB3_EXTC_D2RP

== MAKE_BASE+TSIU NO_TSTG+1

NC_USB3_EXTC_D2RP

16

NC_USB3_EXTC_D2RN

== MAKE_BASE+TSIU NO_TSTG+1

NC_USB3_EXTC_D2RN

16

NC_USB3_EXTC_R2D_CN

== MAKE_BASE+TSIU NO_TSTG+1

NC_USB3_EXTC_R2D_CN

16

NC_USB3_EXTC_R2D_CP

== MAKE_BASE+TSIU NO_TSTG+1

NC_USB3_EXTC_R2D_CP

16

NC_USB3_EXTD_D2RP

== MAKE_BASE+TSIU NO_TSTG+1

NC_USB3_EXTD_D2RP

16

NC_USB3_EXTD_D2RN

== MAKE_BASE+TSIU NO_TSTG+1

NC_USB3_EXTD_D2RN

16

NC_USB3_EXTD_R2D_CN

== MAKE_BASE+TSIU NO_TSTG+1

NC_USB3_EXTD_R2D_CN

16

NC_USB3_EXTD_R2D_CP

== MAKE_BASE+TSIU NO_TSTG+1

NC_USB3_EXTD_R2D_CP

16

NC_PCIE_CLK100M_DEBUGP

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCIE_CLK100M_DEBUGP

16

NC_PCIE_CLK100M_DEBUGN

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCIE_CLK100M_DEBUGN

Unused SoC Signals

35

NC_ALTIMETER_INT

== MAKE_BASE+TSIU NO_TSTG+1

NC_ALTIMETER_INT

35

NC_DFR_DISP_INT

== MAKE_BASE+TSIU NO_TSTG+1

NC_DFR_DISP_INT

36

NC_DFR_DISP_RESET_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_DFR_DISP_RESET_L

36

NC_DFR_DISP_TE

== MAKE_BASE+TSIU NO_TSTG+1

NC_DFR_DISP_TE

36

NC_DFR_PWR_EN

== MAKE_BASE+TSIU NO_TSTG+1

NC_DFR_PWR_EN

36

NC_DFR_TOUCH_CLK32K_RESET_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_DFR_TOUCH_CLK32K_RESET_L

36

NC_DFR_TOUCH_INT_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_DFR_TOUCH_INT_L

36

NC_DFR_TOUCH_RESET_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_DFR_TOUCH_RESET_L

36

NC_DFR_TOUCH_RSVD

== MAKE_BASE+TSIU NO_TSTG+1

NC_DFR_TOUCH_RSVD

35

NC_DISP_GCON_INT_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_DISP_GCON_INT_L

35

NC_ENET_LOW_PWR

== MAKE_BASE+TSIU NO_TSTG+1

NC_ENET_LOW_PWR

35

NC_ENET_MEDIA_SENSE

== MAKE_BASE+TSIU NO_TSTG+1

NC_ENET_MEDIA_SENSE

37

NC_ENET_RESET_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_ENET_RESET_L

36

NC_FTCAM_CLK12M_R

== MAKE_BASE+TSIU NO_TSTG+1

NC_FTCAM_CLK12M_R

36

NC_FTCAM_RESET_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_FTCAM_RESET_L

34

NC_GNSS_DEV_WAKE

== MAKE_BASE+TSIU NO_TSTG+1

NC_GNSS_DEV_WAKE

34

NC_GNSS_HOST_TIME

== MAKE_BASE+TSIU NO_TSTG+1

NC_GNSS_HOST_TIME

34

NC_GNSS_HOST_WAKE

== MAKE_BASE+TSIU NO_TSTG+1

NC_GNSS_HOST_WAKE

36

NC_I2S_CODEC_MCLK

== MAKE_BASE+TSIU NO_TSTG+1

NC_I2S_CODEC_MCLK

36

NC_I2S_CODEC1_MCLK

== MAKE_BASE+TSIU NO_TSTG+1

NC_I2S_CODEC1_MCLK

36

NC_I2S_CODEC1_R2D_R

== MAKE_BASE+TSIU NO_TSTG+1

NC_I2S_CODEC1_R2D_R

36

NC_I2S_HAWKING_BCLK_R

== MAKE_BASE+TSIU NO_TSTG+1

NC_I2S_HAWKING_BCLK_R

36

NC_I2S_HAWKING_D2R

== MAKE_BASE+TSIU NO_TSTG+1

NC_I2S_HAWKING_D2R

36

NC_I2S_HAWKING_LRCLK

== MAKE_BASE+TSIU NO_TSTG+1

NC_I2S_HAWKING_LRCLK

25

NC_MESA_MENUKEY_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_MESA_MENUKEY_L

36

NC_MIPI_DFR_CLKN

== MAKE_BASE+TSIU NO_TSTG+1

NC_MIPI_DFR_CLKN

36

NC_MIPI_DFR_CLKP

== MAKE_BASE+TSIU NO_TSTG+1

NC_MIPI_DFR_CLKP

36

NC_MIPI_DFR_DATAN

== MAKE_BASE+TSIU NO_TSTG+1

NC_MIPI_DFR_DATAN

36

NC_MIPI_DFR_DATAP

== MAKE_BASE+TSIU NO_TSTG+1

NC_MIPI_DFR_DATAP

36

NC_PCC_EVENT

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCC_EVENT

35

NC_PCH_GCON_INT_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCH_GCON_INT_L

37

NC_PCIE_CLK100M_ENETN

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCIE_CLK100M_ENETN

37

NC_PCIE_CLK100M_ENETP

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCIE_CLK100M_ENETP

37

NC_PCIE_CLK100M_SSD1_01N

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCIE_CLK100M_SSD1_01N

37

NC_PCIE_CLK100M_SSD1_01P

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCIE_CLK100M_SSD1_01P

37

NC_PCIE_CLK100M_SSD1_23N

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCIE_CLK100M_SSD1_23N

37

NC_PCIE_CLK100M_SSD1_23P

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCIE_CLK100M_SSD1_23P

37

NC_PCIE_CLK100M_WLANN

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCIE_CLK100M_WLANN

37

NC_PCIE_CLK100M_WLANP

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCIE_CLK100M_WLANP

37

NC_PCIE_ENET_D2RN

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCIE_ENET_D2RN

37

NC_PCIE_ENET_D2RP

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCIE_ENET_D2RP

37

NC_PCIE_ENET_R2D_CN

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCIE_ENET_R2D_CN

37

NC_PCIE_ENET_R2D_CP

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCIE_ENET_R2D_CP

37

NC_PCIE_SSD1_D2RN<3..0>

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCIE_SSD1_D2RN<3..0>

37

NC_PCIE_SSD1_D2RP<3..0>

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCIE_SSD1_D2RP<3..0>

37

NC_PCIE_SSD1_R2D_CN<3..0>

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCIE_SSD1_R2D_CN<3..0>

37

NC_PCIE_SSD1_R2D_CP<3..0>

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCIE_SSD1_R2D_CP<3..0>

37

NC_PCIE_WLAN_D2RN

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCIE_WLAN_D2RN

37

NC_PCIE_WLAN_D2RP

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCIE_WLAN_D2RP

37

NC_PCIE_WLAN_R2D_CN

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCIE_WLAN_R2D_CN

37

NC_PCIE_WLAN_R2D_CP

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCIE_WLAN_R2D_CP

35

NC_PCIEDN_WAKE_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCIEDN_WAKE_L

35

NC_PLCAM_PROX_INT_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_PLCAM_PROX_INT_L

36

NC_PLCAM_ROMEO_B2B_DETECT

== MAKE_BASE+TSIU NO_TSTG+1

NC_PLCAM_ROMEO_B2B_DETECT

36

NC_PLCAM_RX_CLK12M_R

== MAKE_BASE+TSIU NO_TSTG+1

NC_PLCAM_RX_CLK12M_R

36

NC_PLCAM_RX_RESET_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_PLCAM_RX_RESET_L

36

NC_PLCAM_TX_CLK12M_R

== MAKE_BASE+TSIU NO_TSTG+1

NC_PLCAM_TX_CLK12M_R

36

NC_PLCAM_TX_INT

== MAKE_BASE+TSIU NO_TSTG+1

NC_PLCAM_TX_INT

36

NC_PLCAM_TX_RESET_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_PLCAM_TX_RESET_L

36

NC_PLCAM_TX_THROTTLE

== MAKE_BASE+TSIU NO_TSTG+1

NC_PLCAM_TX_THROTTLE

35

NC_SDCONN_STATE_CHANGE_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_SDCONN_STATE_CHANGE_L

35

NC_SMC_FAN_1_PWM

== MAKE_BASE+TSIU NO_TSTG+1

NC_SMC_FAN_1_PWM

35

NC_SMC_FAN_1_TACH

== MAKE_BASE+TSIU NO_TSTG+1

NC_SMC_FAN_1_TACH

35

NC_SMC_GFX_SELF_THROTTLE

== MAKE_BASE+TSIU NO_TSTG+1

NC_SMC_GFX_SELF_THROTTLE

35

NC_SMC_GFX_THROTTLE_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_SMC_GFX_THROTTLE_L

35

NC_SMC_LED_ONEWIRE

== MAKE_BASE+TSIU NO_TSTG+1

NC_SMC_LED_ONEWIRE

35

NC_SPI_ALTIMETER_CS_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_SPI_ALTIMETER_CS_L

37

NC_SSD1_CLK24M_R

== MAKE_BASE+TSIU NO_TSTG+1

NC_SSD1_CLK24M_R

37

NC_SSD1_CLKREQ0_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_SSD1_CLKREQ0_L

37

NC_SSD1_CLKREQ1_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_SSD1_CLKREQ1_L

37

NC_SSD1_CLKREQ2_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_SSD1_CLKREQ2_L

37

NC_SSD1_CLKREQ3_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_SSD1_CLKREQ3_L

37

NC_SSD1_PCIE_RESET_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_SSD1_PCIE_RESET_L

35

NC_SSD1_SWCLK_UART_R2D

== MAKE_BASE+TSIU NO_TSTG+1

NC_SSD1_SWCLK_UART_R2D

35

NC_SSD1_SWDIO_UART_D2R

== MAKE_BASE+TSIU NO_TSTG+1

NC_SSD1_SWDIO_UART_D2R

35

NC_TPAD_VIBE_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_TPAD_VIBE_L

36

NC_UART_GNSS_D2R_CTS_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_UART_GNSS_D2R_CTS_L

36

NC_UART_GNSS_R2D_RTS_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_UART_GNSS_R2D_RTS_L

37

NC_WLAN_CLKREQ_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_WLAN_CLKREQ_L

34

NC_WLAN_DEV_WAKE

== MAKE_BASE+TSIU NO_TSTG+1

NC_WLAN_DEV_WAKE

37

NC_WLAN_PERST_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_WLAN_PERST_L

15

NC_SPIROM_USE_MLB

== MAKE_BASE+TSIU NO_TSTG+1

NC_SPIROM_USE_MLB

14

NC_SPI_PCHROM_MOSI

== MAKE_BASE+TSIU NO_TSTG+1

NC_SPI_PCHROM_MOSI

14

NC_SPI_PCHROM_MISO

== MAKE_BASE+TSIU NO_TSTG+1

NC_SPI_PCHROM_MISO

14

NC_SPI_PCHROM_IO<2>

== MAKE_BASE+TSIU NO_TSTG+1

NC_SPI_PCHROM_IO<2>

14

NC_SPI_PCHROM_CS_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_SPI_PCHROM_CS_L

14

NC_SPI_PCHROM_CLK

== MAKE_BASE+TSIU NO_TSTG+1

NC_SPI_PCHROM_CLK

36

NC_SPI_DFR_MOSI_R

== MAKE_BASE+TSIU NO_TSTG+1

NC_SPI_DFR_MOSI_R

36

NC_SPI_DFR_MISO

== MAKE_BASE+TSIU NO_TSTG+1

NC_SPI_DFR_MISO

36

NC_SPI_DFR_CS_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_SPI_DFR_CS_L

36

NC_SPI_DFR_CLK_R

== MAKE_BASE+TSIU NO_TSTG+1

NC_SPI_DFR_CLK_R

35

NC_SPI_DESCRIPTOR_OVERRIDE_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_SPI_DESCRIPTOR_OVERRIDE_L

35

NC_SMC_TOPBLK_SWP_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_SMC_TOPBLK_SWP_L

35

NC_PCHROM_SW_EN

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCHROM_SW_EN

35

NC_PCH_STRP_TOPBLK_SWP_L

== MAKE_BASE+TSIU NO_TSTG+1

NC_PCH_STRP_TOPBLK_SWP_L

Unused Misc Signals

65

NC_PMU_CLK32K_GNSS_R

== MAKE_BASE+TSIU NO_TSTG+1

NC_PMU_CLK32K_GNSS_R

65

NC_GPU_THRMTRIP

== MAKE_BASE+TSIU NO_TSTG+1

NC_GPU_THRMTRIP

65

NC_P3V3G3W_EN

== MAKE_BASE+TSIU NO_TSTG+1

NC_P3V3G3W_EN

65

NC_P3V3G3W_PGOOD

== MAKE_BASE+TSIU NO_TSTG+1

NC_P3V3G3W_PGOOD

58

NC_CHGR_EN_VR1

== MAKE_BASE+TSIU NO_TSTG+1

NC_CHGR_EN_VR1

58

NC_CHGR_AUX_OK

== MAKE_BASE+TSIU NO_TSTG+1

NC_CHGR_AUX_OK

26

NC_USBC_XA_USB_BOTP

== MAKE_BASE+TSIU NO_TSTG+1

NC_USBC_XA_USB_BOTP

26

NC_USBC_XA_USB_BOTN

== MAKE_BASE+TSIU NO_TSTG+1

NC_USBC_XA_USB_BOTN

Grounded Signals

36

GND

== MAKE_BASE+TSIU

36

GND

== MAKE_BASE+TSIU

36

GND

== MAKE_BASE+TSIU

36

GND

== MAKE_BASE+TSIU

36

GND

== MAKE_BASE+TSIU

36

GND

== MAKE_BASE+TSIU

36

GND

== MAKE_BASE+TSIU

65

GND

== MAKE_BASE+TSIU

PMIC GPIO Config Select

65

P2V7NAND_PGOOD

== MAKE_BASE+TSIU

P2V7NAND_PGOOD

73

65

P2V7NAND_EN

== MAKE_BASE+TSIU

P2V7NAND_EN

73

65

NAND_DISCHARGE_EN

== MAKE_BASE+TSIU

NAND_DISCHARGE_EN

74

65

NAND_RESET_L

== MAKE_BASE+TSIU

NAND_RESET_L

74

65

UVP_DIS_L

== MAKE_BASE+TSIU

UVP_DIS_L

43

Signal Aliases

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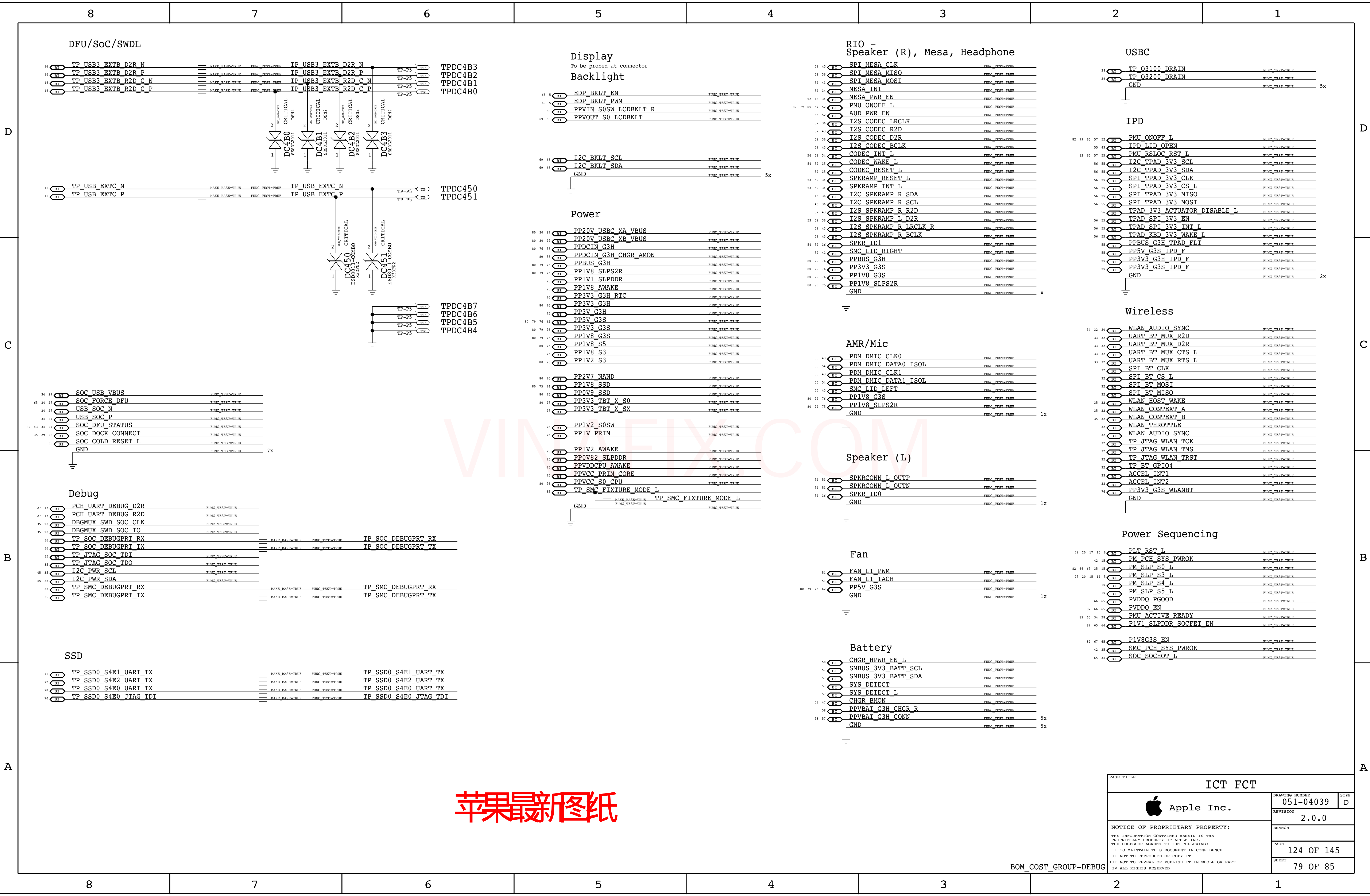
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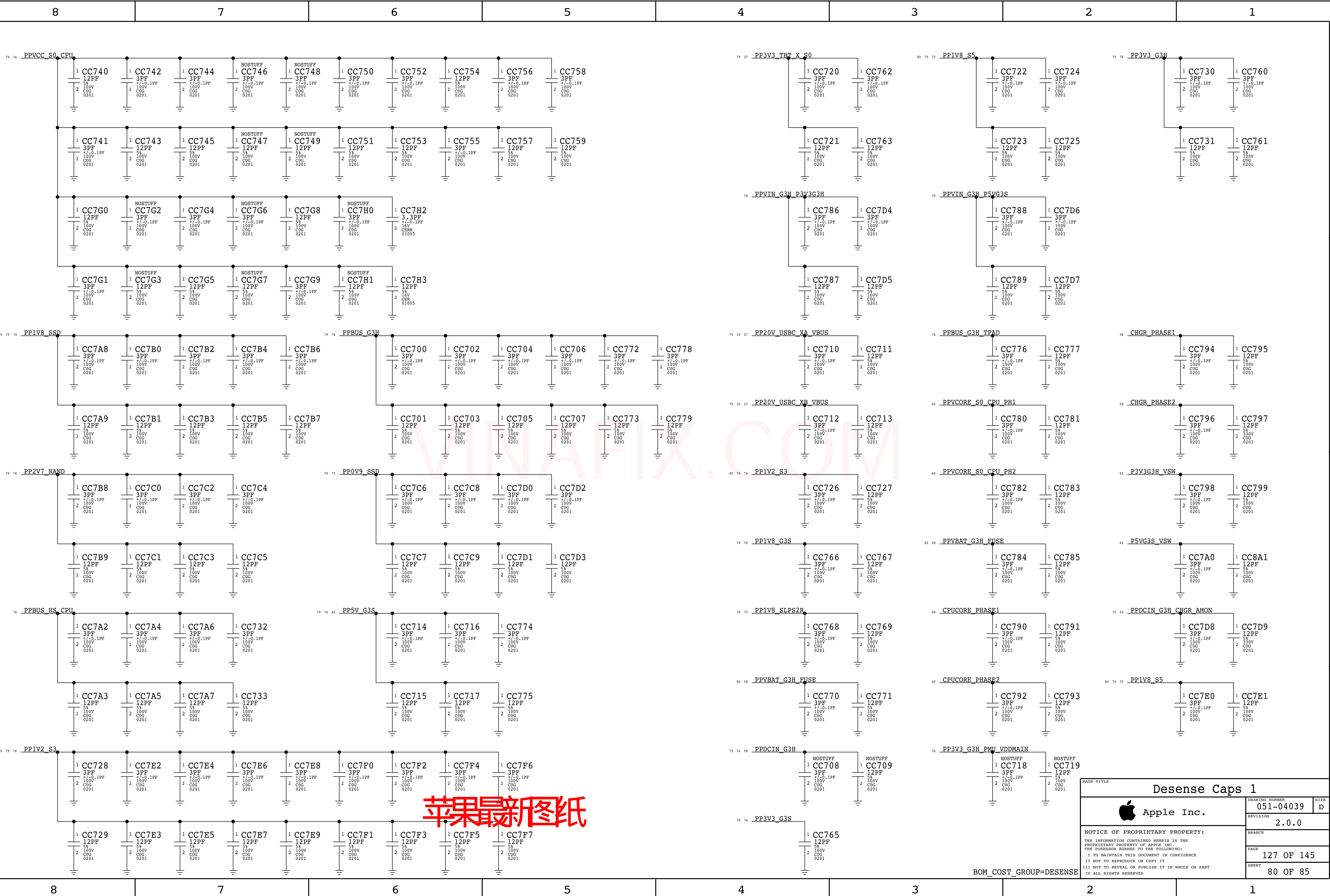
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	Memory Bit/Byte Swizzle								
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A	<div><div></div><div><div>SYNC_MASTER=J122_MLB</div><div>SYNC_DATE=04/13/2018</div><div>Memory Signal Swaps</div><div><div>Apple Inc.</div><div>DRAWING NUMBER051-04039</div><div>SIZED</div></div><div>NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED</div><div>BRANCH</div><div>PAGE123 OF 145</div><div>SHEET78 OF 85</div></div></div>								
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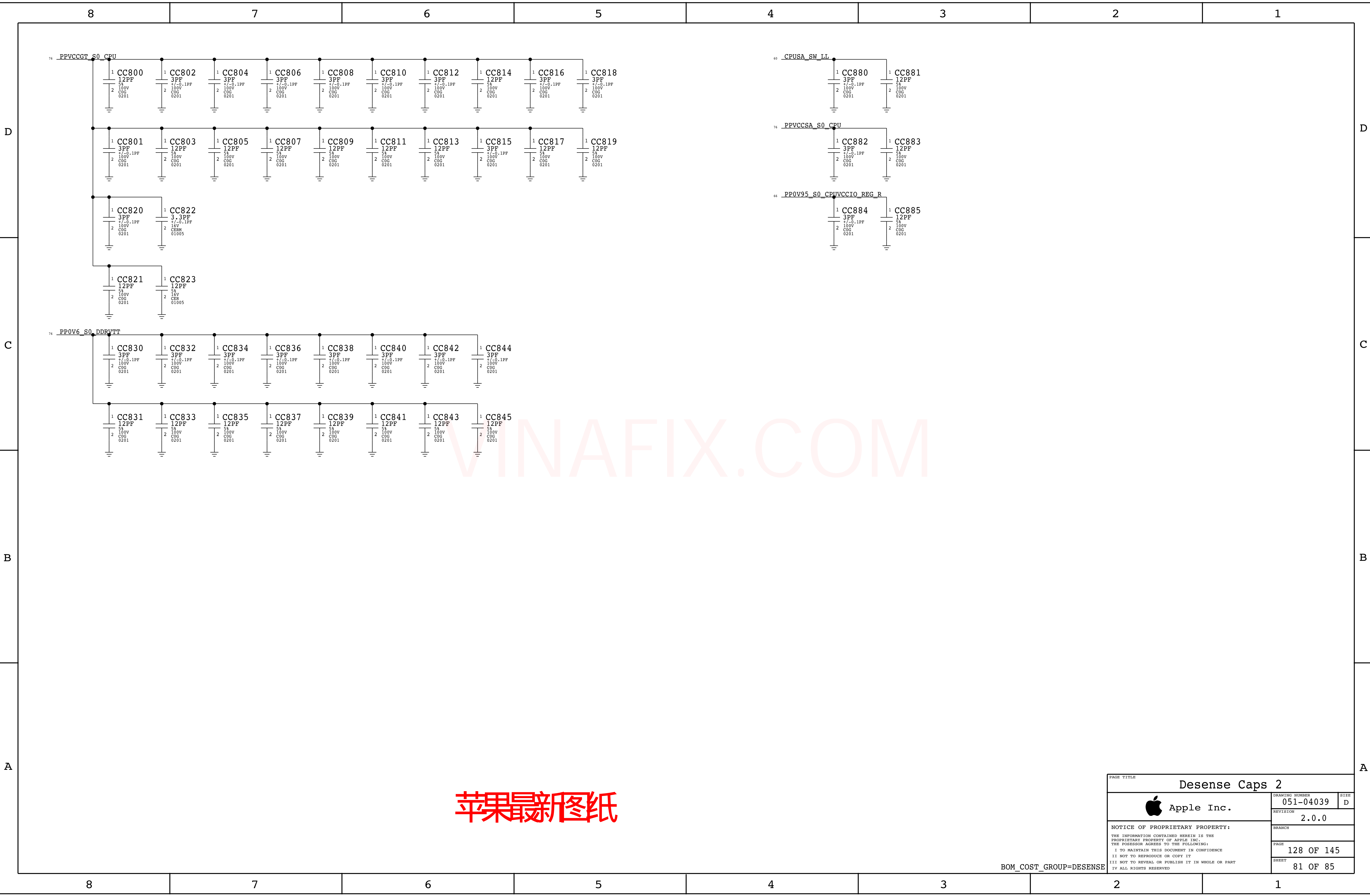
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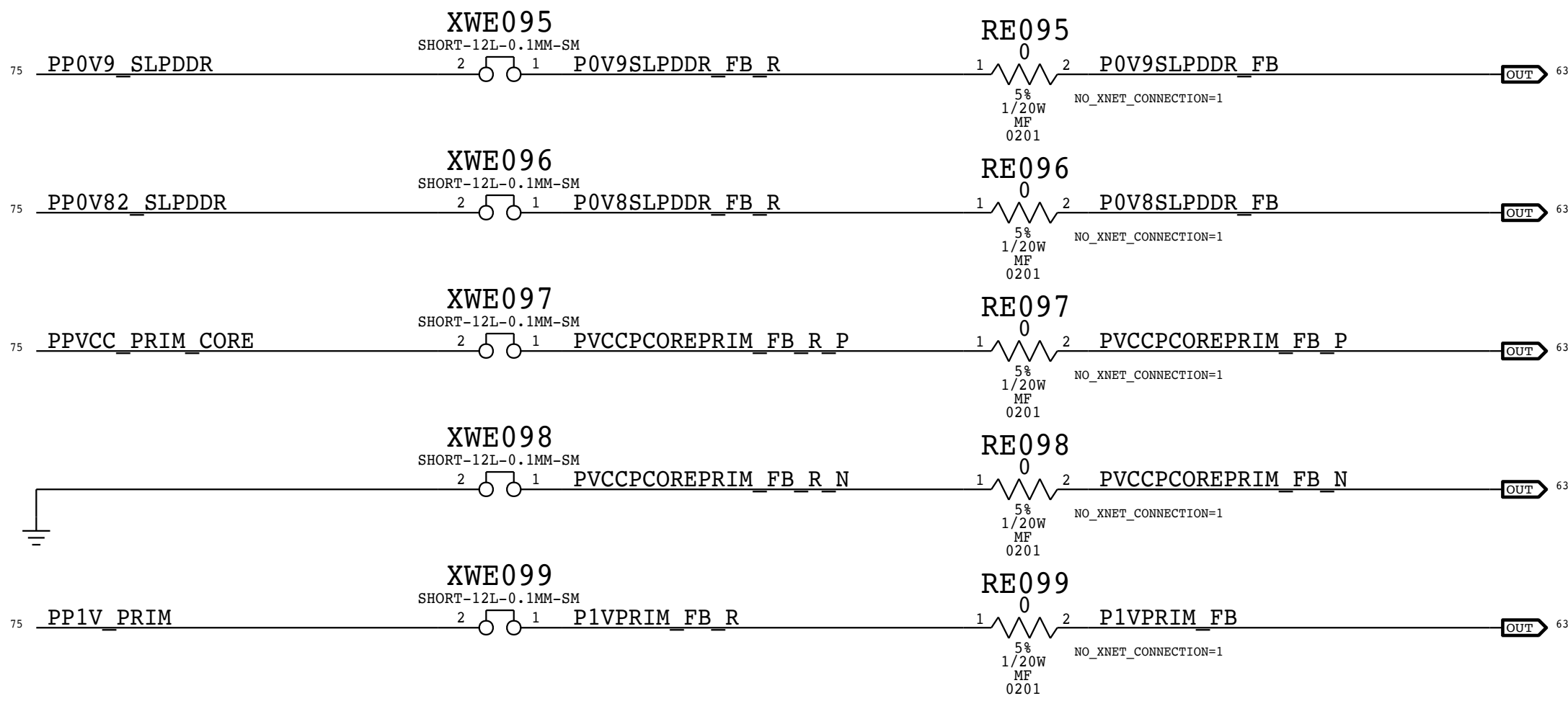


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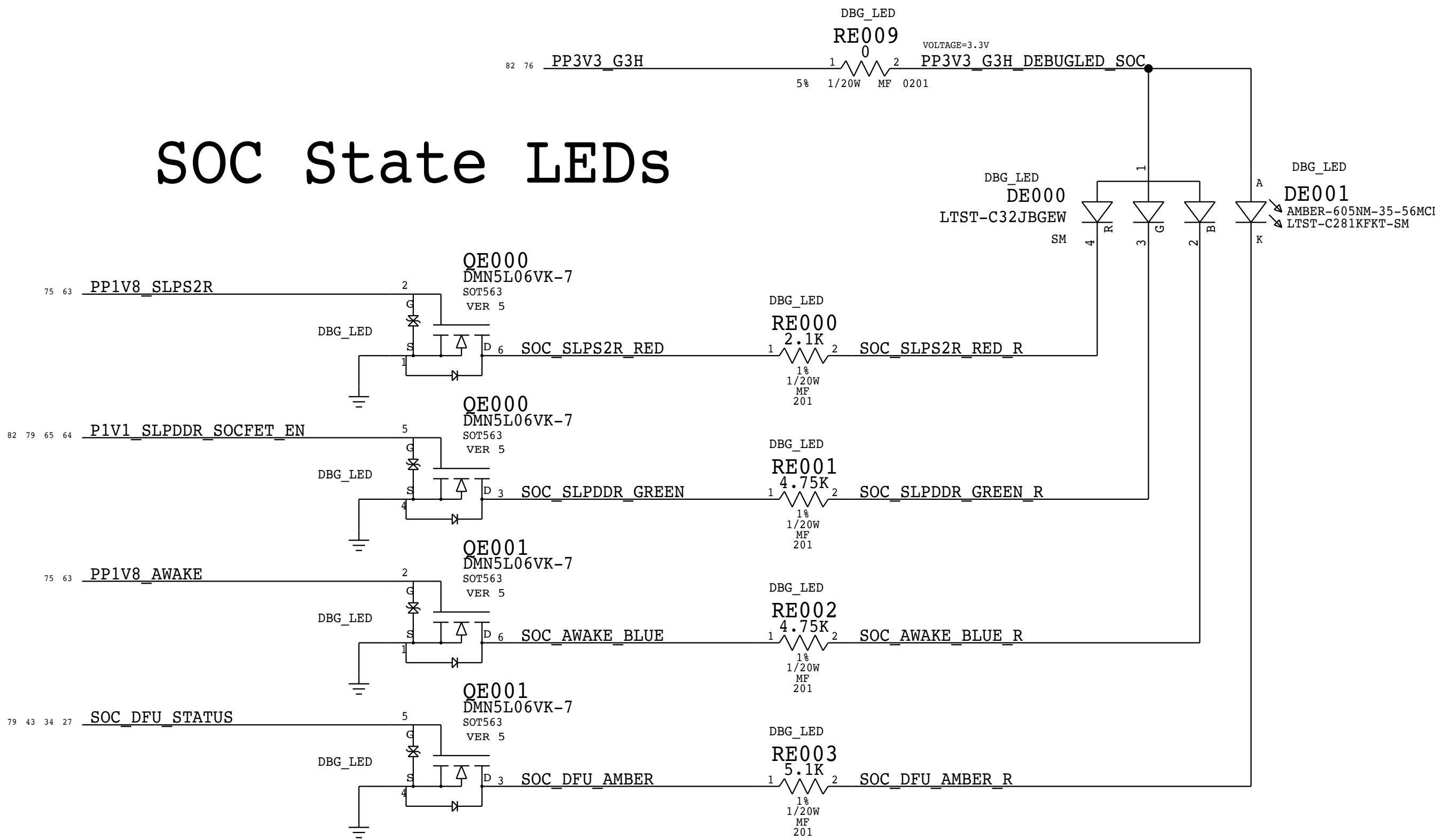
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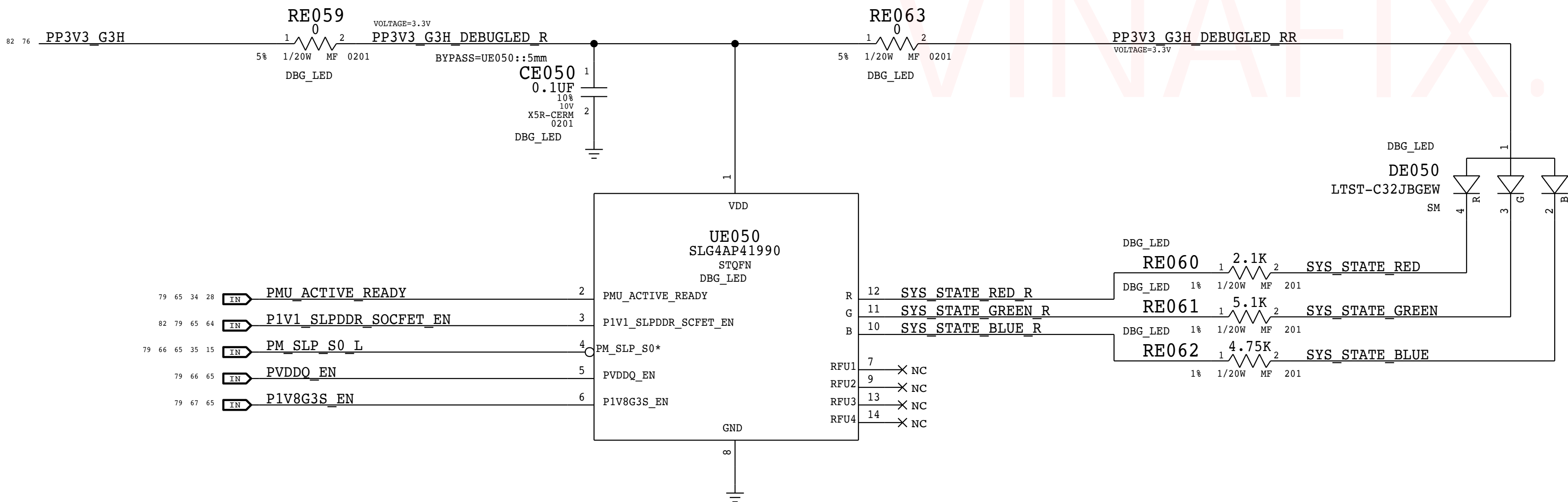
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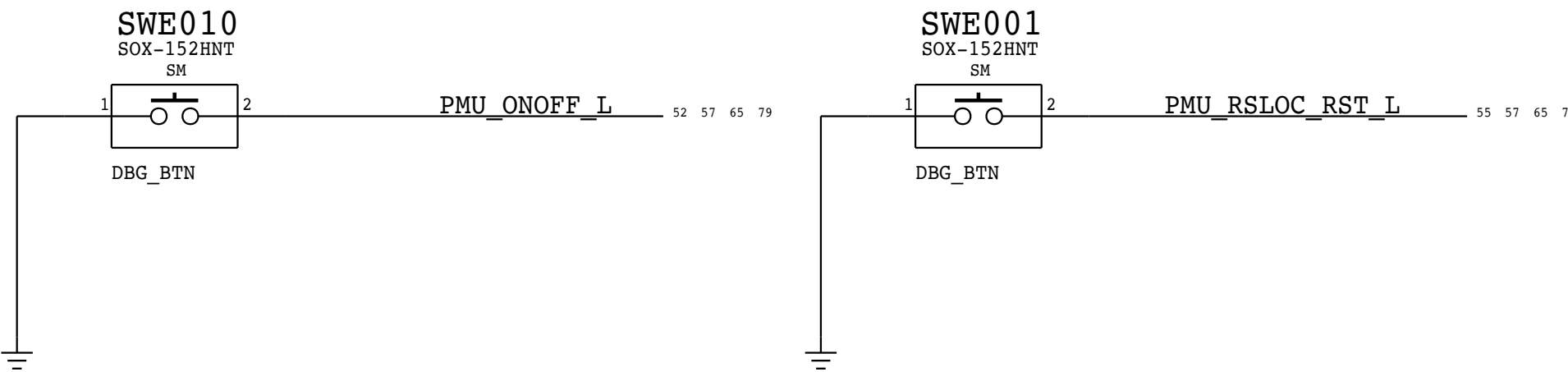
SOC State LEDs



System State LED



Dev Buttons



Inputs					Outputs			Color		State		
PMU ACT RDY	P1V1_SLPDDR SOC_FET_EN	PM_SLP_S0_L	PVDDQ_EN	P1V8G3S_EN	R	G	B			System	SoC	CPU
0	0	0	0	0	BLINK	OFF	OFF	Blinking	Red	OFF	OFF	OFF
0	0	0	0	1	ON	OFF	OFF	Red		ON	OFF	OFF
1	1	0	0	1	ON	ON	OFF	Yellow		ON	OFF	OFF
0	0	0	1	1	ON	ON	ON	White		Sleep	SLPS2R	S0i
1	1	0	1	1	OFF	OFF	ON	Blue		Sleep	AWAKE	S0i
1	1	1	1	1	OFF	ON	OFF	Green		Run	AWAKE	S0
1	1	0	0	0	BLINK	ON	OFF	Blinking	Yellow & Green			


All other states are magenta

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	<table><tr><th>BOM NUMBER</th><th>BOM NAME</th><th>BOM OPTIONS</th></tr><tr><td>685-00251</td><td>COMMON PARTS,MLB_BTTF,X1032</td><td>MLB_COMMON</td></tr><tr><td>985-00733</td><td>DEV PARTS,MLB_BTTF,X1032</td><td>DBG_BTN,DBG_LED,UPC_DBG_HDR</td></tr><tr><td>939-06596</td><td>PCBA,MLB-BTTF,DCDC,X1032</td><td>ALTERNATE,COMMON,DEV_PARTS_BOM,SCREEN,PCB,CPU_AMLY:INTERPOSER,MLB_POWER,MLA_MISC,MLB_MECH1,PREEVT2</td></tr></table>								BOM NUMBER	BOM NAME	BOM OPTIONS	685-00251	COMMON PARTS,MLB_BTTF,X1032	MLB_COMMON	985-00733	DEV PARTS,MLB_BTTF,X1032	DBG_BTN,DBG_LED,UPC_DBG_HDR	939-06596	PCBA,MLB-BTTF,DCDC,X1032	ALTERNATE,COMMON,DEV_PARTS_BOM,SCREEN,PCB,CPU_AMLY:INTERPOSER,MLB_POWER,MLA_MISC,MLB_MECH1,PREEVT2																																																																																																																																																																	
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	<table><tr><th>EEEE</th><th>BOM NUMBER</th><th>BOM NAME</th><th>BOM OPTIONS</th></tr><tr><td>K6GN</td><td>639-06259</td><td>PCBA,MLB,BEST,HY-8G,SD-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_128G_SD</td></tr><tr><td>KLTM</td><td>639-06561</td><td>PCBA,MLB,BEST,HY-8G,TO-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_128G_TO</td></tr><tr><td>KLVO</td><td>639-06562</td><td>PCBA,MLB,BEST,MI-8G,SD-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_128G_SD</td></tr><tr><td>KLVD</td><td>639-06563</td><td>PCBA,MLB,BEST,MI-8G,TO-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_128G_TO</td></tr><tr><td>KLVV</td><td>639-06564</td><td>PCBA,MLB,BEST,SS-8G,SD-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_128G_SD</td></tr><tr><td>KLW7</td><td>639-06565</td><td>PCBA,MLB,BEST,SS-8G,TO-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_128G_TO</td></tr><tr><td>KLWL</td><td>639-06566</td><td>PCBA,MLB,BEST,HY-16G,SD-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_128G_SD</td></tr><tr><td>KLWY</td><td>639-06567</td><td>PCBA,MLB,BEST,HY-16G,TO-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_128G_TO</td></tr><tr><td>KLX9</td><td>639-06568</td><td>PCBA,MLB,BEST,MI-16G,SD-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_128G_SD</td></tr><tr><td>KLXN</td><td>639-06569</td><td>PCBA,MLB,BEST,MI-16G,TO-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_128G_TO</td></tr><tr><td>KLY1</td><td>639-06570</td><td>PCBA,MLB,BEST,SS-16G,SD-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_128G_SD</td></tr><tr><td>KLYD</td><td>639-06571</td><td>PCBA,MLB,BEST,SS-16G,TO-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_128G_TO</td></tr><tr><td>KLYQ</td><td>639-06572</td><td>PCBA,MLB,BEST,HY-8G,SD-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_256G_SD</td></tr><tr><td>KM04</td><td>639-06573</td><td>PCBA,MLB,BEST,HY-8G,TO-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_256G_TO</td></tr><tr><td>KM0L</td><td>639-06574</td><td>PCBA,MLB,BEST,MI-8G,SD-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_256G_SD</td></tr><tr><td>KM10</td><td>639-06575</td><td>PCBA,MLB,BEST,MI-8G,TO-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_256G_TO</td></tr><tr><td>KM1F</td><td>639-06576</td><td>PCBA,MLB,BEST,SS-8G,SD-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_256G_SD</td></tr><tr><td>KM1R</td><td>639-06577</td><td>PCBA,MLB,BEST,SS-8G,TO-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_256G_TO</td></tr><tr><td>KM24</td><td>639-06578</td><td>PCBA,MLB,BEST,HY-16G,SD-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_256G_SD</td></tr><tr><td>KM2H</td><td>639-06579</td><td>PCBA,MLB,BEST,HY-16G,TO-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_256G_TO</td></tr><tr><td>KM2V</td><td>639-06580</td><td>PCBA,MLB,BEST,MI-16G,SD-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_256G_SD</td></tr><tr><td>KM39</td><td>639-06581</td><td>PCBA,MLB,BEST,MI-16G,TO-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_256G_TO</td></tr><tr><td>KM3Q</td><td>639-06582</td><td>PCBA,MLB,BEST,SS-16G,SD-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_256G_SD</td></tr><tr><td>KM47</td><td>639-06583</td><td>PCBA,MLB,BEST,SS-16G,TO-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_256G_TO</td></tr><tr><td>KM4Q</td><td>639-06584</td><td>PCBA,MLB,BEST,HY-8G,SD-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_512G_SD</td></tr><tr><td>KM55</td><td>639-06585</td><td>PCBA,MLB,BEST,HY-8G,TO-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_512G_TO</td></tr><tr><td>KM5J</td><td>639-06586</td><td>PCBA,MLB,BEST,MI-8G,SD-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_512G_SD</td></tr><tr><td>KM5W</td><td>639-06587</td><td>PCBA,MLB,BEST,MI-8G,TO-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_512G_TO</td></tr><tr><td>KM67</td><td>639-06588</td><td>PCBA,MLB,BEST,SS-8G,SD-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_512G_SD</td></tr><tr><td>KM6L</td><td>639-06589</td><td>PCBA,MLB,BEST,SS-8G,TO-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_512G_TO</td></tr><tr><td>KM6Y</td><td>639-06590</td><td>PCBA,MLB,BEST,HY-16G,SD-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_512G_SD</td></tr><tr><td>KM79</td><td>639-06591</td><td>PCBA,MLB,BEST,HY-16G,TO-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_512G_TO</td></tr><tr><td>KM7N</td><td>639-06592</td><td>PCBA,MLB,BEST,MI-16G,SD-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_512G_SD</td></tr><tr><td>KM81</td><td>639-06593</td><td>PCBA,MLB,BEST,MI-16G,TO-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_512G_TO</td></tr><tr><td>KM8D</td><td>639-06594</td><td>PCBA,MLB,BEST,SS-16G,SD-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_512G_SD</td></tr><tr><td>KM8Q</td><td>639-06595</td><td>PCBA,MLB,BEST,SS-16G,TO-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_512G_TO</td></tr><tr><td>KM93</td><td>639-06596</td><td>PCBA,MLB,BEST,HY-8G,SS-1.5T,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_8GB,NANDCFG:3DV4_1P5T_SS</td></tr><tr><td>KM9G</td><td>639-06597</td><td>PCBA,MLB,BEST,MI-8G,SS-1.5T,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_8GB,NANDCFG:3DV4_1P5T_SS</td></tr><tr><td>KM9T</td><td>639-06598</td><td>PCBA,MLB,BEST,SS-8G,SS-1.5T,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_8GB,NANDCFG:3DV4_1P5T_SS</td></tr><tr><td>KMC5</td><td>639-06599</td><td>PCBA,MLB,BEST,HY-16G,SS-1.5T,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_16GB,NANDCFG:3DV4_1P5T_SS</td></tr><tr><td>KMCJ</td><td>639-06600</td><td>PCBA,MLB,BEST,MI-16G,SS-1.5T,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_16GB,NANDCFG:3DV4_1P5T_SS</td></tr><tr><td>KMCW</td><td>639-06601</td><td>PCBA,MLB,BEST,SS-16G,SS-1.5T,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_16GB,NANDCFG:3DV4_1P5T_SS</td></tr></table>								EEEE	BOM NUMBER	BOM NAME	BOM OPTIONS	K6GN	639-06259	PCBA,MLB,BEST,HY-8G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_128G_SD	KLTM	639-06561	PCBA,MLB,BEST,HY-8G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_128G_TO	KLVO	639-06562	PCBA,MLB,BEST,MI-8G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_128G_SD	KLVD	639-06563	PCBA,MLB,BEST,MI-8G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_128G_TO	KLVV	639-06564	PCBA,MLB,BEST,SS-8G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_128G_SD	KLW7	639-06565	PCBA,MLB,BEST,SS-8G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_128G_TO	KLWL	639-06566	PCBA,MLB,BEST,HY-16G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_128G_SD	KLWY	639-06567	PCBA,MLB,BEST,HY-16G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_128G_TO	KLX9	639-06568	PCBA,MLB,BEST,MI-16G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_128G_SD	KLXN	639-06569	PCBA,MLB,BEST,MI-16G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_128G_TO	KLY1	639-06570	PCBA,MLB,BEST,SS-16G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_128G_SD	KLYD	639-06571	PCBA,MLB,BEST,SS-16G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_128G_TO	KLYQ	639-06572	PCBA,MLB,BEST,HY-8G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_256G_SD	KM04	639-06573	PCBA,MLB,BEST,HY-8G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_256G_TO	KM0L	639-06574	PCBA,MLB,BEST,MI-8G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_256G_SD	KM10	639-06575	PCBA,MLB,BEST,MI-8G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_256G_TO	KM1F	639-06576	PCBA,MLB,BEST,SS-8G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_256G_SD	KM1R	639-06577	PCBA,MLB,BEST,SS-8G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_256G_TO	KM24	639-06578	PCBA,MLB,BEST,HY-16G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_256G_SD	KM2H	639-06579	PCBA,MLB,BEST,HY-16G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_256G_TO	KM2V	639-06580	PCBA,MLB,BEST,MI-16G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_256G_SD	KM39	639-06581	PCBA,MLB,BEST,MI-16G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_256G_TO	KM3Q	639-06582	PCBA,MLB,BEST,SS-16G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_256G_SD	KM47	639-06583	PCBA,MLB,BEST,SS-16G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_256G_TO	KM4Q	639-06584	PCBA,MLB,BEST,HY-8G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_512G_SD	KM55	639-06585	PCBA,MLB,BEST,HY-8G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_512G_TO	KM5J	639-06586	PCBA,MLB,BEST,MI-8G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_512G_SD	KM5W	639-06587	PCBA,MLB,BEST,MI-8G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_512G_TO	KM67	639-06588	PCBA,MLB,BEST,SS-8G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_512G_SD	KM6L	639-06589	PCBA,MLB,BEST,SS-8G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_512G_TO	KM6Y	639-06590	PCBA,MLB,BEST,HY-16G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_512G_SD	KM79	639-06591	PCBA,MLB,BEST,HY-16G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_512G_TO	KM7N	639-06592	PCBA,MLB,BEST,MI-16G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_512G_SD	KM81	639-06593	PCBA,MLB,BEST,MI-16G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_512G_TO	KM8D	639-06594	PCBA,MLB,BEST,SS-16G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_512G_SD	KM8Q	639-06595	PCBA,MLB,BEST,SS-16G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_512G_TO	KM93	639-06596	PCBA,MLB,BEST,HY-8G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_8GB,NANDCFG:3DV4_1P5T_SS	KM9G	639-06597	PCBA,MLB,BEST,MI-8G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_8GB,NANDCFG:3DV4_1P5T_SS	KM9T	639-06598	PCBA,MLB,BEST,SS-8G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_8GB,NANDCFG:3DV4_1P5T_SS	KMC5	639-06599	PCBA,MLB,BEST,HY-16G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_16GB,NANDCFG:3DV4_1P5T_SS	KMCJ	639-06600	PCBA,MLB,BEST,MI-16G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_16GB,NANDCFG:3DV4_1P5T_SS	KMCW	639-06601	PCBA,MLB,BEST,SS-16G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_16GB,NANDCFG:3DV4_1P5T_SS	
	EEEE	BOM NUMBER	BOM NAME	BOM OPTIONS																																																																																																																																																																																	
K6GN	639-06259	PCBA,MLB,BEST,HY-8G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_128G_SD																																																																																																																																																																																		
KLTM	639-06561	PCBA,MLB,BEST,HY-8G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_128G_TO																																																																																																																																																																																		
KLVO	639-06562	PCBA,MLB,BEST,MI-8G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_128G_SD																																																																																																																																																																																		
KLVD	639-06563	PCBA,MLB,BEST,MI-8G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_128G_TO																																																																																																																																																																																		
KLVV	639-06564	PCBA,MLB,BEST,SS-8G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_128G_SD																																																																																																																																																																																		
KLW7	639-06565	PCBA,MLB,BEST,SS-8G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_128G_TO																																																																																																																																																																																		
KLWL	639-06566	PCBA,MLB,BEST,HY-16G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_128G_SD																																																																																																																																																																																		
KLWY	639-06567	PCBA,MLB,BEST,HY-16G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_128G_TO																																																																																																																																																																																		
KLX9	639-06568	PCBA,MLB,BEST,MI-16G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_128G_SD																																																																																																																																																																																		
KLXN	639-06569	PCBA,MLB,BEST,MI-16G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_128G_TO																																																																																																																																																																																		
KLY1	639-06570	PCBA,MLB,BEST,SS-16G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_128G_SD																																																																																																																																																																																		
KLYD	639-06571	PCBA,MLB,BEST,SS-16G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_128G_TO																																																																																																																																																																																		
KLYQ	639-06572	PCBA,MLB,BEST,HY-8G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_256G_SD																																																																																																																																																																																		
KM04	639-06573	PCBA,MLB,BEST,HY-8G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_256G_TO																																																																																																																																																																																		
KM0L	639-06574	PCBA,MLB,BEST,MI-8G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_256G_SD																																																																																																																																																																																		
KM10	639-06575	PCBA,MLB,BEST,MI-8G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_256G_TO																																																																																																																																																																																		
KM1F	639-06576	PCBA,MLB,BEST,SS-8G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_256G_SD																																																																																																																																																																																		
KM1R	639-06577	PCBA,MLB,BEST,SS-8G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_256G_TO																																																																																																																																																																																		
KM24	639-06578	PCBA,MLB,BEST,HY-16G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_256G_SD																																																																																																																																																																																		
KM2H	639-06579	PCBA,MLB,BEST,HY-16G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_256G_TO																																																																																																																																																																																		
KM2V	639-06580	PCBA,MLB,BEST,MI-16G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_256G_SD																																																																																																																																																																																		
KM39	639-06581	PCBA,MLB,BEST,MI-16G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_256G_TO																																																																																																																																																																																		
KM3Q	639-06582	PCBA,MLB,BEST,SS-16G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_256G_SD																																																																																																																																																																																		
KM47	639-06583	PCBA,MLB,BEST,SS-16G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_256G_TO																																																																																																																																																																																		
KM4Q	639-06584	PCBA,MLB,BEST,HY-8G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_512G_SD																																																																																																																																																																																		
KM55	639-06585	PCBA,MLB,BEST,HY-8G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_512G_TO																																																																																																																																																																																		
KM5J	639-06586	PCBA,MLB,BEST,MI-8G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_512G_SD																																																																																																																																																																																		
KM5W	639-06587	PCBA,MLB,BEST,MI-8G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_512G_TO																																																																																																																																																																																		
KM67	639-06588	PCBA,MLB,BEST,SS-8G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_512G_SD																																																																																																																																																																																		
KM6L	639-06589	PCBA,MLB,BEST,SS-8G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_512G_TO																																																																																																																																																																																		
KM6Y	639-06590	PCBA,MLB,BEST,HY-16G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_512G_SD																																																																																																																																																																																		
KM79	639-06591	PCBA,MLB,BEST,HY-16G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_512G_TO																																																																																																																																																																																		
KM7N	639-06592	PCBA,MLB,BEST,MI-16G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_512G_SD																																																																																																																																																																																		
KM81	639-06593	PCBA,MLB,BEST,MI-16G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_512G_TO																																																																																																																																																																																		
KM8D	639-06594	PCBA,MLB,BEST,SS-16G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_512G_SD																																																																																																																																																																																		
KM8Q	639-06595	PCBA,MLB,BEST,SS-16G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_512G_TO																																																																																																																																																																																		
KM93	639-06596	PCBA,MLB,BEST,HY-8G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_8GB,NANDCFG:3DV4_1P5T_SS																																																																																																																																																																																		
KM9G	639-06597	PCBA,MLB,BEST,MI-8G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_8GB,NANDCFG:3DV4_1P5T_SS																																																																																																																																																																																		
KM9T	639-06598	PCBA,MLB,BEST,SS-8G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_8GB,NANDCFG:3DV4_1P5T_SS																																																																																																																																																																																		
KMC5	639-06599	PCBA,MLB,BEST,HY-16G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:HYNIX_16GB,NANDCFG:3DV4_1P5T_SS																																																																																																																																																																																		
KMCJ	639-06600	PCBA,MLB,BEST,MI-16G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:MICRON_16GB,NANDCFG:3DV4_1P5T_SS																																																																																																																																																																																		
KMCW	639-06601	PCBA,MLB,BEST,SS-16G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKH,DRAMCFG:SAMSUNG_16GB,NANDCFG:3DV4_1P5T_SS																																																																																																																																																																																		
	<table><tr><th>EEEE</th><th>BOM NUMBER</th><th>BOM NAME</th><th>BOM OPTIONS</th></tr><tr><td>KMD7</td><td>639-06602</td><td>PCBA,MLB,BTTR,HY-8G,SD-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_128G_SD</td></tr><tr><td>KMDL</td><td>639-06603</td><td>PCBA,MLB,BTTR,HY-8G,TO-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_128G_TO</td></tr><tr><td>KMDY</td><td>639-06604</td><td>PCBA,MLB,BTTR,MI-8G,SD-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_128G_SD</td></tr><tr><td>KMF9</td><td>639-06605</td><td>PCBA,MLB,BTTR,MI-8G,TO-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_128G_TO</td></tr><tr><td>KMFN</td><td>639-06606</td><td>PCBA,MLB,BTTR,SS-8G,SD-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_128G_SD</td></tr><tr><td>KMG1</td><td>639-06607</td><td>PCBA,MLB,BTTR,SS-8G,TO-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_128G_TO</td></tr><tr><td>KMGD</td><td>639-06608</td><td>PCBA,MLB,BTTR,HY-16G,SD-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_128G_SD</td></tr><tr><td>KMGQ</td><td>639-06609</td><td>PCBA,MLB,BTTR,HY-16G,TO-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_128G_TO</td></tr><tr><td>KMH3</td><td>639-06610</td><td>PCBA,MLB,BTTR,MI-16G,SD-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_128G_SD</td></tr><tr><td>KMHG</td><td>639-06611</td><td>PCBA,MLB,BTTR,MI-16G,TO-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_128G_TO</td></tr><tr><td>KMHT</td><td>639-06612</td><td>PCBA,MLB,BTTR,SS-16G,SD-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_128G_SD</td></tr><tr><td>KMJ5</td><td>639-06613</td><td>PCBA,MLB,BTTR,SS-16G,TO-128G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_128G_TO</td></tr><tr><td>KMJK</td><td>639-06614</td><td>PCBA,MLB,BTTR,HY-8G,SD-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_256G_SD</td></tr><tr><td>KMJX</td><td>639-06615</td><td>PCBA,MLB,BTTR,HY-8G,TO-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_256G_TO</td></tr><tr><td>KMK8</td><td>639-06616</td><td>PCBA,MLB,BTTR,MI-8G,SD-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_256G_SD</td></tr><tr><td>KMKM</td><td>639-06617</td><td>PCBA,MLB,BTTR,MI-8G,TO-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_256G_TO</td></tr><tr><td>KML0</td><td>639-06618</td><td>PCBA,MLB,BTTR,SS-8G,SD-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_256G_SD</td></tr><tr><td>KMLC</td><td>639-06619</td><td>PCBA,MLB,BTTR,SS-8G,TO-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_256G_TO</td></tr><tr><td>KMLP</td><td>639-06620</td><td>PCBA,MLB,BTTR,HY-16G,SD-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_256G_SD</td></tr><tr><td>KMM2</td><td>639-06621</td><td>PCBA,MLB,BTTR,HY-16G,TO-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_256G_TO</td></tr><tr><td>KMMF</td><td>639-06622</td><td>PCBA,MLB,BTTR,MI-16G,SD-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_256G_SD</td></tr><tr><td>KMMR</td><td>639-06623</td><td>PCBA,MLB,BTTR,MI-16G,TO-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_256G_TO</td></tr><tr><td>KMN4</td><td>639-06624</td><td>PCBA,MLB,BTTR,SS-16G,SD-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_256G_SD</td></tr><tr><td>KMNH</td><td>639-06625</td><td>PCBA,MLB,BTTR,SS-16G,TO-256G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_256G_TO</td></tr><tr><td>KMNV</td><td>639-06626</td><td>PCBA,MLB,BTTR,HY-8G,SD-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_512G_SD</td></tr><tr><td>KMP6</td><td>639-06627</td><td>PCBA,MLB,BTTR,HY-8G,TO-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_512G_TO</td></tr><tr><td>KMPK</td><td>639-06628</td><td>PCBA,MLB,BTTR,MI-8G,SD-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_512G_SD</td></tr><tr><td>KMPX</td><td>639-06629</td><td>PCBA,MLB,BTTR,MI-8G,TO-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_512G_TO</td></tr><tr><td>KMQ8</td><td>639-06630</td><td>PCBA,MLB,BTTR,SS-8G,SD-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_512G_SD</td></tr><tr><td>KMQM</td><td>639-06631</td><td>PCBA,MLB,BTTR,SS-8G,TO-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_512G_TO</td></tr><tr><td>KMR0</td><td>639-06632</td><td>PCBA,MLB,BTTR,HY-16G,SD-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_512G_SD</td></tr><tr><td>KMRC</td><td>639-06633</td><td>PCBA,MLB,BTTR,HY-16G,TO-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_512G_TO</td></tr><tr><td>KMRP</td><td>639-06634</td><td>PCBA,MLB,BTTR,MI-16G,SD-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_512G_SD</td></tr><tr><td>KMT2</td><td>639-06635</td><td>PCBA,MLB,BTTR,MI-16G,TO-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_512G_TO</td></tr><tr><td>KMTF</td><td>639-06636</td><td>PCBA,MLB,BTTR,SS-16G,SD-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_512G_SD</td></tr><tr><td>KMTR</td><td>639-06637</td><td>PCBA,MLB,BTTR,SS-16G,TO-512G,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_512G_TO</td></tr><tr><td>KMV4</td><td>639-06638</td><td>PCBA,MLB,BTTR,HY-8G,SS-1.5T,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_8GB,NANDCFG:3DV4_1P5T_SS</td></tr><tr><td>KMVL</td><td>639-06639</td><td>PCBA,MLB,BTTR,MI-8G,SS-1.5T,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_8GB,NANDCFG:3DV4_1P5T_SS</td></tr><tr><td>KMVG</td><td>639-06640</td><td>PCBA,MLB,BTTR,SS-8G,SS-1.5T,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_8GB,NANDCFG:3DV4_1P5T_SS</td></tr><tr><td>KMW9</td><td>639-06641</td><td>PCBA,MLB,BTTR,HY-16G,SS-1.5T,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_16GB,NANDCFG:3DV4_1P5T_SS</td></tr><tr><td>KMWN</td><td>639-06642</td><td>PCBA,MLB,BTTR,MI-16G,SS-1.5T,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_16GB,NANDCFG:3DV4_1P5T_SS</td></tr><tr><td>KMX1</td><td>639-06643</td><td>PCBA,MLB,BTTR,SS-16G,SS-1.5T,X1032</td><td>CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_16GB,NANDCFG:3DV4_1P5T_SS</td></tr></table>								EEEE	BOM NUMBER	BOM NAME	BOM OPTIONS	KMD7	639-06602	PCBA,MLB,BTTR,HY-8G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_128G_SD	KMDL	639-06603	PCBA,MLB,BTTR,HY-8G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_128G_TO	KMDY	639-06604	PCBA,MLB,BTTR,MI-8G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_128G_SD	KMF9	639-06605	PCBA,MLB,BTTR,MI-8G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_128G_TO	KMFN	639-06606	PCBA,MLB,BTTR,SS-8G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_128G_SD	KMG1	639-06607	PCBA,MLB,BTTR,SS-8G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_128G_TO	KMGD	639-06608	PCBA,MLB,BTTR,HY-16G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_128G_SD	KMGQ	639-06609	PCBA,MLB,BTTR,HY-16G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_128G_TO	KMH3	639-06610	PCBA,MLB,BTTR,MI-16G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_128G_SD	KMHG	639-06611	PCBA,MLB,BTTR,MI-16G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_128G_TO	KMHT	639-06612	PCBA,MLB,BTTR,SS-16G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_128G_SD	KMJ5	639-06613	PCBA,MLB,BTTR,SS-16G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_128G_TO	KMJK	639-06614	PCBA,MLB,BTTR,HY-8G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_256G_SD	KMJX	639-06615	PCBA,MLB,BTTR,HY-8G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_256G_TO	KMK8	639-06616	PCBA,MLB,BTTR,MI-8G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_256G_SD	KMKM	639-06617	PCBA,MLB,BTTR,MI-8G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_256G_TO	KML0	639-06618	PCBA,MLB,BTTR,SS-8G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_256G_SD	KMLC	639-06619	PCBA,MLB,BTTR,SS-8G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_256G_TO	KMLP	639-06620	PCBA,MLB,BTTR,HY-16G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_256G_SD	KMM2	639-06621	PCBA,MLB,BTTR,HY-16G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_256G_TO	KMMF	639-06622	PCBA,MLB,BTTR,MI-16G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_256G_SD	KMMR	639-06623	PCBA,MLB,BTTR,MI-16G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_256G_TO	KMN4	639-06624	PCBA,MLB,BTTR,SS-16G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_256G_SD	KMNH	639-06625	PCBA,MLB,BTTR,SS-16G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_256G_TO	KMNV	639-06626	PCBA,MLB,BTTR,HY-8G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_512G_SD	KMP6	639-06627	PCBA,MLB,BTTR,HY-8G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_512G_TO	KMPK	639-06628	PCBA,MLB,BTTR,MI-8G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_512G_SD	KMPX	639-06629	PCBA,MLB,BTTR,MI-8G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_512G_TO	KMQ8	639-06630	PCBA,MLB,BTTR,SS-8G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_512G_SD	KMQM	639-06631	PCBA,MLB,BTTR,SS-8G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_512G_TO	KMR0	639-06632	PCBA,MLB,BTTR,HY-16G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_512G_SD	KMRC	639-06633	PCBA,MLB,BTTR,HY-16G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_512G_TO	KMRP	639-06634	PCBA,MLB,BTTR,MI-16G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_512G_SD	KMT2	639-06635	PCBA,MLB,BTTR,MI-16G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_512G_TO	KMTF	639-06636	PCBA,MLB,BTTR,SS-16G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_512G_SD	KMTR	639-06637	PCBA,MLB,BTTR,SS-16G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_512G_TO	KMV4	639-06638	PCBA,MLB,BTTR,HY-8G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_8GB,NANDCFG:3DV4_1P5T_SS	KMVL	639-06639	PCBA,MLB,BTTR,MI-8G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_8GB,NANDCFG:3DV4_1P5T_SS	KMVG	639-06640	PCBA,MLB,BTTR,SS-8G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_8GB,NANDCFG:3DV4_1P5T_SS	KMW9	639-06641	PCBA,MLB,BTTR,HY-16G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_16GB,NANDCFG:3DV4_1P5T_SS	KMWN	639-06642	PCBA,MLB,BTTR,MI-16G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_16GB,NANDCFG:3DV4_1P5T_SS	KMX1	639-06643	PCBA,MLB,BTTR,SS-16G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_16GB,NANDCFG:3DV4_1P5T_SS	
EEEE	BOM NUMBER	BOM NAME	BOM OPTIONS																																																																																																																																																																																		
KMD7	639-06602	PCBA,MLB,BTTR,HY-8G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_128G_SD																																																																																																																																																																																		
KMDL	639-06603	PCBA,MLB,BTTR,HY-8G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_128G_TO																																																																																																																																																																																		
KMDY	639-06604	PCBA,MLB,BTTR,MI-8G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_128G_SD																																																																																																																																																																																		
KMF9	639-06605	PCBA,MLB,BTTR,MI-8G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_128G_TO																																																																																																																																																																																		
KMFN	639-06606	PCBA,MLB,BTTR,SS-8G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_128G_SD																																																																																																																																																																																		
KMG1	639-06607	PCBA,MLB,BTTR,SS-8G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_128G_TO																																																																																																																																																																																		
KMGD	639-06608	PCBA,MLB,BTTR,HY-16G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_128G_SD																																																																																																																																																																																		
KMGQ	639-06609	PCBA,MLB,BTTR,HY-16G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_128G_TO																																																																																																																																																																																		
KMH3	639-06610	PCBA,MLB,BTTR,MI-16G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_128G_SD																																																																																																																																																																																		
KMHG	639-06611	PCBA,MLB,BTTR,MI-16G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_128G_TO																																																																																																																																																																																		
KMHT	639-06612	PCBA,MLB,BTTR,SS-16G,SD-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_128G_SD																																																																																																																																																																																		
KMJ5	639-06613	PCBA,MLB,BTTR,SS-16G,TO-128G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_128G_TO																																																																																																																																																																																		
KMJK	639-06614	PCBA,MLB,BTTR,HY-8G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_256G_SD																																																																																																																																																																																		
KMJX	639-06615	PCBA,MLB,BTTR,HY-8G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_256G_TO																																																																																																																																																																																		
KMK8	639-06616	PCBA,MLB,BTTR,MI-8G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_256G_SD																																																																																																																																																																																		
KMKM	639-06617	PCBA,MLB,BTTR,MI-8G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_256G_TO																																																																																																																																																																																		
KML0	639-06618	PCBA,MLB,BTTR,SS-8G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_256G_SD																																																																																																																																																																																		
KMLC	639-06619	PCBA,MLB,BTTR,SS-8G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_256G_TO																																																																																																																																																																																		
KMLP	639-06620	PCBA,MLB,BTTR,HY-16G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_256G_SD																																																																																																																																																																																		
KMM2	639-06621	PCBA,MLB,BTTR,HY-16G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_256G_TO																																																																																																																																																																																		
KMMF	639-06622	PCBA,MLB,BTTR,MI-16G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_256G_SD																																																																																																																																																																																		
KMMR	639-06623	PCBA,MLB,BTTR,MI-16G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_256G_TO																																																																																																																																																																																		
KMN4	639-06624	PCBA,MLB,BTTR,SS-16G,SD-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_256G_SD																																																																																																																																																																																		
KMNH	639-06625	PCBA,MLB,BTTR,SS-16G,TO-256G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_256G_TO																																																																																																																																																																																		
KMNV	639-06626	PCBA,MLB,BTTR,HY-8G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_512G_SD																																																																																																																																																																																		
KMP6	639-06627	PCBA,MLB,BTTR,HY-8G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_512G_TO																																																																																																																																																																																		
KMPK	639-06628	PCBA,MLB,BTTR,MI-8G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_512G_SD																																																																																																																																																																																		
KMPX	639-06629	PCBA,MLB,BTTR,MI-8G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_512G_TO																																																																																																																																																																																		
KMQ8	639-06630	PCBA,MLB,BTTR,SS-8G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_512G_SD																																																																																																																																																																																		
KMQM	639-06631	PCBA,MLB,BTTR,SS-8G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_512G_TO																																																																																																																																																																																		
KMR0	639-06632	PCBA,MLB,BTTR,HY-16G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_512G_SD																																																																																																																																																																																		
KMRC	639-06633	PCBA,MLB,BTTR,HY-16G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_512G_TO																																																																																																																																																																																		
KMRP	639-06634	PCBA,MLB,BTTR,MI-16G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_512G_SD																																																																																																																																																																																		
KMT2	639-06635	PCBA,MLB,BTTR,MI-16G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_512G_TO																																																																																																																																																																																		
KMTF	639-06636	PCBA,MLB,BTTR,SS-16G,SD-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_512G_SD																																																																																																																																																																																		
KMTR	639-06637	PCBA,MLB,BTTR,SS-16G,TO-512G,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_512G_TO																																																																																																																																																																																		
KMV4	639-06638	PCBA,MLB,BTTR,HY-8G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_8GB,NANDCFG:3DV4_1P5T_SS																																																																																																																																																																																		
KMVL	639-06639	PCBA,MLB,BTTR,MI-8G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_8GB,NANDCFG:3DV4_1P5T_SS																																																																																																																																																																																		
KMVG	639-06640	PCBA,MLB,BTTR,SS-8G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_8GB,NANDCFG:3DV4_1P5T_SS																																																																																																																																																																																		
KMW9	639-06641	PCBA,MLB,BTTR,HY-16G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:HYNIX_16GB,NANDCFG:3DV4_1P5T_SS																																																																																																																																																																																		
KMWN	639-06642	PCBA,MLB,BTTR,MI-16G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:MICRON_16GB,NANDCFG:3DV4_1P5T_SS																																																																																																																																																																																		
KMX1	639-06643	PCBA,MLB,BTTR,SS-16G,SS-1.5T,X1032	CMH_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SREKP,DRAMCFG:SAMSUNG_16GB,NANDCFG:3DV4_1P5T_SS																																																																																																																																																																																		
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PAGE TITLE			BOM Variants 1		
 Apple Inc.		DRAWING NUMBER	051-04039	SIZE	D
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		SHEET	83 OF 85		

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	BOM Variants															
C	EEEE		BOM NUMBER		BOM NAME		BOM OPTIONS									
	KMXD		639-06644		PCBA,MLB,GOOD,HY-8G,SD-128G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_128G_SD									
	KMXQ		639-06645		PCBA,MLB,GOOD,HY-8G,TO-128G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_128G_TO									
	KMY4		639-06646		PCBA,MLB,GOOD,MI-8G,SD-128G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_128G_SD									
	KMYH		639-06647		PCBA,MLB,GOOD,MI-8G,TO-128G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_128G_TO									
	KMYV		639-06648		PCBA,MLB,GOOD,SS-8G,SD-128G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_128G_SD		Deactivated							
	KN06		639-06649		PCBA,MLB,GOOD,SS-8G,TO-128G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_128G_TO		Deactivated							
	KN0L		639-06650		PCBA,MLB,GOOD,HY-16G,SD-128G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_128G_SD									
	KN0Y		639-06651		PCBA,MLB,GOOD,HY-16G,TO-128G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_128G_TO									
	KN19		639-06652		PCBA,MLB,GOOD,MI-16G,SD-128G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_128G_SD		Deactivated							
B	KN1N		639-06653		PCBA,MLB,GOOD,MI-16G,TO-128G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_128G_TO		Deactivated							
	KN22		639-06654		PCBA,MLB,GOOD,SS-16G,SD-128G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_128G_SD		Deactivated							
	KN2F		639-06655		PCBA,MLB,GOOD,SS-16G,TO-128G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_128G_TO		Deactivated							
	KN2R		639-06656		PCBA,MLB,GOOD,HY-8G,SD-256G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_256G_SD									
	KN34		639-06657		PCBA,MLB,GOOD,HY-8G,TO-256G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_256G_TO									
	KN3J		639-06658		PCBA,MLB,GOOD,MI-8G,SD-256G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_256G_SD									
	KN3Y		639-06659		PCBA,MLB,GOOD,MI-8G,TO-256G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_256G_TO									
	KN4F		639-06660		PCBA,MLB,GOOD,SS-8G,SD-256G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_256G_SD		Deactivated							
	KN4X		639-06661		PCBA,MLB,GOOD,SS-8G,TO-256G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_256G_TO		Deactivated							
	KN5C		639-06662		PCBA,MLB,GOOD,HY-16G,SD-256G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_256G_SD									
A	KN5P		639-06663		PCBA,MLB,GOOD,HY-16G,TO-256G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_256G_TO									
	KN62		639-06664		PCBA,MLB,GOOD,MI-16G,SD-256G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_256G_SD		Deactivated							
	KN6F		639-06665		PCBA,MLB,GOOD,MI-16G,TO-256G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_256G_TO		Deactivated							
	KN6R		639-06666		PCBA,MLB,GOOD,SS-16G,SD-256G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_256G_SD		Deactivated							
	KN74		639-06667		PCBA,MLB,GOOD,SS-16G,TO-256G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_256G_TO		Deactivated							
	KN7H		639-06668		PCBA,MLB,GOOD,HY-8G,SD-512G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_512G_SD									
	KN7V		639-06669		PCBA,MLB,GOOD,HY-8G,TO-512G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:HYNIX_8GB,NANDCFG:PMLC_512G_TO									
	KN86		639-06670		PCBA,MLB,GOOD,MI-8G,SD-512G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_512G_SD									
	KN8M		639-06671		PCBA,MLB,GOOD,MI-8G,TO-512G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:MICRON_8GB,NANDCFG:PMLC_512G_TO									
	KN90		639-06672		PCBA,MLB,GOOD,SS-8G,SD-512G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_512G_SD		Deactivated							
A	KN9C		639-06673		PCBA,MLB,GOOD,SS-8G,TO-512G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:SAMSUNG_8GB,NANDCFG:PMLC_512G_TO		Deactivated							
	KN9P		639-06674		PCBA,MLB,GOOD,HY-16G,SD-512G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_512G_SD									
	KNC2		639-06675		PCBA,MLB,GOOD,HY-16G,TO-512G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:HYNIX_16GB,NANDCFG:PMLC_512G_TO									
	KNCF		639-06676		PCBA,MLB,GOOD,MI-16G,SD-512G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_512G_SD		Deactivated							
	KNCR		639-06677		PCBA,MLB,GOOD,MI-16G,TO-512G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:MICRON_16GB,NANDCFG:PMLC_512G_TO		Deactivated							
	KND4		639-06678		PCBA,MLB,GOOD,SS-16G,SD-512G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_512G_SD		Deactivated							
	KNDJ		639-06679		PCBA,MLB,GOOD,SS-16G,TO-512G,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:SAMSUNG_16GB,NANDCFG:PMLC_512G_TO		Deactivated							
	KNDX		639-06680		PCBA,MLB,GOOD,HY-8G,SS-1.5T,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:HYNIX_8GB,NANDCFG:3DV4_1P5T_SS									
	KNF8		639-06681		PCBA,MLB,GOOD,MI-8G,SS-1.5T,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:MICRON_8GB,NANDCFG:3DV4_1P5T_SS									
	KNFM		639-06682		PCBA,MLB,GOOD,SS-8G,SS-1.5T,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:SAMSUNG_8GB,NANDCFG:3DV4_1P5T_SS		Deactivated							
A	KNG0		639-06683		PCBA,MLB,GOOD,HY-16G,SS-1.5T,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:HYNIX_16GB,NANDCFG:3DV4_1P5T_SS									
	KNGC		639-06684		PCBA,MLB,GOOD,MI-16G,SS-1.5T,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:MICRON_16GB,NANDCFG:3DV4_1P5T_SS		Deactivated							
	KNGP		639-06685		PCBA,MLB,GOOD,SS-16G,SS-1.5T,X1032		CHN_PARTS_BOM,DEV_PARTS_BOM,ALTERNATE,CPU_AMLY:SRERQ,DRAMCFG:SAMSUNG_16GB,NANDCFG:3DV4_1P5T_SS		Deactivated							
<div>苹果最新图纸</div>																
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Alternates

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
107S00033	107S00034		ALL	rdar://problem/31026333
107S00076	107S00044		ALL	rdar://problem/31026474
107S00070	107S00085		ALL	rdar://problem/31026832
107S00139	107S0178		ALL	rdar://problem/31026896
107S0248	107S0250		ALL	rdar://problem/31026938
128S00087	128S00011		ALL	rdar://problem/31104542
128S00026	128S00011		ALL	rdar://problem/31104542
128S00031	128S00011		ALL	rdar://problem/31104542
197S00120	197S00118		ALL	rdar://problem/32474316
152S00368	152S00269		ALL	rdar://problem/32986667
152S00708	152S00265		ALL	rdar://problem/32986857
152S00786	152S00344		ALL	rdar://problem/32988704
152S00785	152S00477		ALL	rdar://problem/32988930
152S00182	128S00703		ALL	rdar://problem/32989310
128S0264	128S00081		ALL	rdar://problem/32981497
128S0364	128S00081		ALL	rdar://problem/32981497
128S00069	128S00067		ALL	rdar://problem/31160233
128S00062	128S00067		ALL	rdar://problem/31160233
128S00065	128S00067		ALL	rdar://problem/31160233
128S00039	128S00038		ALL	rdar://problem/32984088
128S0302	128S00038		ALL	rdar://problem/32984088
128S0631	128S0352		ALL	rdar://problem/32984967
152S00807	152S00837		ALL	rdar://problem/33018005
152S00734	152S00730		ALL	rdar://problem/32986265
376S00303	376S00012		ALL	Per Peter H
107S00015	107S00011		ALL	rdar://problem/33006397
107S00029	107S00087		ALL	rdar://problem/33006830
376S00302	376S1038		ALL	rdar://problem/33008171
376S00227	376S00203		ALL	rdar://problem/32990227
376S00204	376S00203		ALL	rdar://problem/32990227
376S00226	376S00203		ALL	rdar://problem/32990227
152S00800	152S00268		ALL	rdar://problem/32986455
128S0445	128S0436		ALL	rdar://problem/32981936
128S0392	128S0436		ALL	rdar://problem/32981936
128S00042	128S0311		ALL	rdar://problem/32982452
128S00043	128S0311		ALL	rdar://problem/32982452
128S0329	128S0311		ALL	rdar://problem/32982452
128S00058	128S00018		ALL	rdar://problem/32983704
376S00007	376S1179		ALL	rdar://problem/33006121
376S00228	376S1179		ALL	rdar://problem/33006121
138S00047	138S00073		ALL	rdar://problem/31227780
138S00084	138S00060		ALL	rdar://problem/31227858
138S0703	138S0648		ALL	rdar://problem/31228419
353S00497	353S00796		ALL	rdar://problem/31285876
197S00047	197S00036		ALL	rdar://problem/31509365
197S00048	197S00036		ALL	rdar://problem/31509365
197S00046	197S00036		ALL	rdar://problem/31509365
311S00060	311S0273		ALL	rdar://problem/31512477
138S1101	138S0738		ALL	rdar://problem/31491081
371S00180	371S00077		ALL	rdar://problem/31927114
138S00049	138S0831		ALL	rdar://problem/31284882
138S00086	138S0884		ALL	rdar://problem/31285557

Alternate Vendor	Primary Vendor
TFT	Cyntec
Yageo	Cyntec
TDK	Murata
Panasonic	Murata
TFT	Cyntec
Panasonic	Kemet
NEC	Kemet
Rohm	Kemet
Epson	TXC
NEC	Cyntec
Chilisin	Cyntec
Cyntec	Murata
Chilisin	Murata
Cyntec	Chilisin
Panasonic	Panasonic
Kemet	Panasonic
Rohm	Panasonic
NEC	Panasonic
Kemet	Panasonic
NEC	Kemet
Panasonic	Kemet
NEC	Panasonic
Cyntec	NEC
Chilisin	Cyntec
Diodes	TI
TFT	Cyntec
TFT	Yageo
Diodes	TI
Fairchild	Vishay
Diodes	Vishay
Vishay	Vishay
NEC	Cyntec
Panasonic	Kemet
Panasonic	Panasonic
Kemet	NEC
Panasonic	NEC
Panasonic	NEC
Rohm	NEC
AOS	Vishay
Fairchild	Vishay
Taiyo	Murata
Taiyo	Murata
Murata	Taiyo
Vishay	Fairchild
Kyocera	TXC
Murata	TXC
Epson	TXC
Diodes	Philips
Murata	Samsung
Diodes	NXP
Kyocera	Murata
Taiyo	Murata


PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S00077	138S00035		ALL	rdar://problem/31167038
138S00093	138S00035		ALL	rdar://problem/31167038
132S00012	132S0401		ALL	rdar://problem/31180314
138S00015	138S0777		ALL	rdar://problem/31254330
138S0786	138S0847		ALL	rdar://problem/31253709
152S00398	152S00204		ALL	rdar://problem/33011314
152S00724	152S00311		ALL	rdar://problem/33011211
152S00726	152S00592		ALL	rdar://problem/33011437
152S00725	152S00590		ALL	rdar://problem/33011526
371S00089	371S00085		ALL	rdar://problem/31927389
155S00190	155S0914		ALL	rdar://problem/32364855
155S00007	155S0667		ALL	rdar://problem/32415629
155S00203	155S0894		ALL	rdar://problem/32435328
376S00219	376S00079		ALL	rdar://problem/32435733
311S00013	311S0508		ALL	rdar://problem/32476985
740S00033	740S00002		ALL	rdar://problem/32477535
740S0118	740S00028		ALL	rdar://problem/32477706
138S00024	138S0986		ALL	rdar://problem/31410587
155S00067	155S00401		ALL	Per CE
155S0741	155S0361		ALL	rdar://problem/32406745
155S00166	155S0391		ALL	rdar://problem/32407396
311S00121	311S0398		ALL	rdar://problem/32474809
371S00127	371S00182		ALL	rdar://problem/36311626
138S00056	138S1100		ALL	rdar://problem/31411109
311S00104	311S00091		ALL	rdar://problem/31509861
353S01041	353S01042		ALL	rdar://problem/31816775
311S00156	311S00129		ALL	rdar://problem/31941459
107S00056	107S00086		ALL	rdar://problem/39511087
138S0775	138S0860		ALL	Per Peter Hasucha
138S0846	138S0811		ALL	rdar://problem/30812097
376S1053	376S0604		ALL	rdar://problem/30812097
152S00359	152S00253		ALL	rdar://problem/30812097
740S00041	740S0159		ALL	rdar://problem/30812097
376S1106	376S0678		ALL	rdar://problem/30812097
371S00074	371S0692		ALL	rdar://problem/33675478
132S00176	132S0640		ALL	rdar://problem/33924830
311S0426	311S00007		ALL	
138S0739	138S0706		ALL	rdar://problem/31253813
138S0945	138S0706		ALL	rdar://problem/31253813
155S0665	155S00232		ALL	rdar://problem/32364084
311S00138	311S0436		ALL	rdar://problem/32474939
335S00270	335S00203		ALL	rdar://problem/33516617
311S00175	311S00029		ALL	rdar://problem/33857884
335S00213	335S0888		ALL	rdar://problem/33927628
378S00029	378S00002		ALL	rdar://problem/33932183
197S00053	197S00050		ALL	rdar://problem/33931383
197S00054	197S00050		ALL	rdar://problem/33931383
197S00055	197S00050		ALL	rdar://problem/33931383
311S00178	311S00177		ALL	rdar://problem/39513462
138S0754	138S0942		ALL	Per Peter H
132S00238	132S00181		ALL	rdar://problem/34016553

Alternate Vendor	Primary Vendor
Taiyo	Murata
Kyocera	Murata
Murata/TDK	Taiyo
Samsung/Taiyo	Murata
Samsung	Murata/Taiyo
Taiyo	Cyntec
Chilisin	Cyntec
Chilisin	Cyntec
Chilisin	Cyntec
Diodes	ON Semi
Taiyo	Panasonic
Taiyo	Panasonic
Taiyo	Murata
TI	Fairchild
Diodes	NXP/Nexperia
Thinking	Murata
Polytronics	Bussman
Taiyo/TDK	Murata
TDK	Murata
Murata	TDK
TDK	Murata
Diodes	NXP/Nexperia
Nexperia	Diodes
Taiyo/TDK	Murata
TI	ON Semi
ST	TI
Nexperia	TI
Cyntec	TFT
Samsung	Murata
Samsung	Murata
Diodes	Fairchild
Chilisin	Cyntec
Bourns	Littlefuse
Fairchild	Vishay
Infineon	NXP
Yageo	Murata
NXP	Diodes
Samsung	Murata
Kyocera	Murata
Murata	TDK
Nexperia	TI
Adesto	Macronix
Nexperia	Diodes
On Semi	STMicro
Lite-On	Everlight
Kyocera	TXC
NDK	TXC
Murata	TXC
On Semi	TI
Samsung	Murata
Murata	Yageo

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S00073	138S0942		ALL	rdar://problem/34812612
138S00047	138S0942		ALL	rdar://problem/34812612
152S00403	152S00322		ALL	rdar://problem/34319209
372S00016	372S00015		ALL	rdar://problem/34320842
376S1080	376S0820		ALL	rdar://problem/34320959
376S00074	376S0855		ALL	rdar://problem/34321106
353S01320	353S01346		ALL	rdar://problem/33903814
107S0240	107S0255		ALL	rdar://problem/33930580
152S00765	152S00239		ALL	Per Peter H
377S00123	377S00031		ALL	rdar://problem/35399063
377S0077	377S0183		ALL	rdar://problem/35403837
377S0184	377S0155		ALL	rdar://problem/35404095
740S00005	740S0190		ALL	rdar://problem/35404496
376S1137	376S00019		ALL	rdar://problem/33955940
155S0706	155S0302		ALL	rdar://problem/32364222
311S0596	311S0593		ALL	rdar://problem/35040623
131S00134	131S00041		ALL	rdar://problem/36353852
353S00711	353S2073		ALL	rdar://problem/36563522
353S00712	353S2216		ALL	rdar://problem/36563854
371S0689	371S00197		ALL	rdar://problem/33930952
132S00202	132S00175		ALL	rdar://problem/36674713
138S00109	138S0914		ALL	rdar://problem/36484938
311S0372	311S0562		ALL	rdar://problem/35404697
376S00282	376S1128		ALL	rdar://problem/33904000
131S00142	132S0312		ALL	rdar://problem/36993892
152S00735	152S01013		ALL	Email per Peter H
152S00731	152S01013		ALL	Email per Peter H
152S00348	152S01013		ALL	Email per Peter H
152S00280	152S00356		ALL	Email per Peter H
152S00394	152S00260		ALL	rdar://problem/39510566
131S00308	131S00037		ALL	Email per Peter H
353S00525	353S4471		ALL	rdar://problem/39513670
353S00832	353S4471		ALL	rdar://problem/39513670
311S00193	311S00192		ALL	rdar://problem/39512882
103S0321	103S0276		ALL	Email per Peter H
371S00193	371S00015		ALL	Email per CE
138S0863	138S0853		ALL	rdar://problem/40634165
107S00053	107S00071		ALL	rdar://problem/40145084
107S00005	107S00101		ALL	rdar://problem/40145309
311S00004	311S0370		ALL	rdar://problem/40179470
376S00146	376S1061		ALL	rdar://problem/40315007
371S00085	371S00190		ALL	rdar://problem/40314867
138S00111	138S00036		ALL	Per Peter H
377S00079	377S00077		ALL	
376S00309	376S00074		ALL	rdar://problem/40181869
138S00022	138S0801		ALL	rdar://problem/40667960
353S01824	353S2208		ALL	rdar://problem/40468973
376S00343	376S00161		ALL	rdar://problem/42347938
376S00344	376S00161		ALL	Per Eric Lee

Alternate Vendor	Primary Vendor
Murata	Murata
Taiyo	Murata
Chilisin	Murata
Diodes	On Semi
Diodes	On Semi
Toshiba	Diodes
NXP	On Semi
TFT	Cyntec
Chilisin	Cyntec
Semtech	ON Semi
ST	Infineon
Infineon	ON Semi
Littelfuse	Wayon
Vishay	Diodes
Taiyo	Murata
TI	NXP/Nexperia
Murata	Taiyo
ON Semi	TI
ON Semi	TI
NXP	Diodes
Murata/Taiyo	Kyocera/Samsung
Kyocera	Murata
NXP/Nexperia	TI
Nexperia	Diodes
Samsung	Murata
Chilisin	Cyntec
Cyntec	Cyntec
Vishay	Cyntec
Cyntec	Chilisin
Vishay	Cyntec
Yageo	Murata
Vishay	Vishay
Fairchild	Vishay
TI	NXP
Yageo	Cyntec
Rohm	Toshiba
Taiyo	Murata
Cyntec	Yageo
Cyntec	Yageo
ON Semi	NXP/Nexperia
Rohm	Diodes
ON Semi	Diodes
Taiyo	Murata
Diodes	ST Micro
Diodes	Toshiba
Taiyo	Murata, Samsung
On Semi	TI
On Semi	Diodes
Alpha Omega	Diodes

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