

8		7		6		5		4		3		2		1			
1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%.												REV	ZONE	ECN	DESCRIPTION OF CHANGE	CK APPD	ENG APPD
2. ALL CAPACITANCE VALUES ARE IN MICROFARADS.																DATE	DATE
3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ.												13		445818	ENGINEERING RELEASED	06/22/06	06/22/04
D	PAGE	DRI	PDF	CIRCUIT		PAGE	DRI	PDF	CIRCUIT								
	1	JD	JD	1	TABLE OF CONTENTS	53	JD	JD	43	PCI-E - AIRPORT MINI-PCIE CONN							
	2	JD	JD	2	SYSTEM BLOCK DIAGRAM	54	JD	JD	44	PCI-E - UNUSED PORTS							
	3	RT	RT	3	POWER BLOCK DIAGRAM	58	MS	MS	45	SMC - H8S2116							
	4	JD	JD	4	TABLE ITEMS & REVISION HISTORY	59	MS	MS	46	SMC - SMB BUSSES, MISC							
	5	JD	JD	5	FUNC TEST	60	MS	MS	47	SMC - LPC+ CONN							
	6	RT	RT	6	POWER CONNECTOR / POWER ALIAS	61	JH	JH	48	SMC - GPU/NB THERMAL SENSOR							
	(M42)	7	MS	JD	7	CPU - BUS INTERFACE	RX	63	MS	JD						49	SMC - SPI BOOTROM
	(M42)	8	MS	JD	8	CPU - PWR & GND	65	MS	MS	50						SMC - FANS	
	9	MS	JD	9	CPU - DECAPS	66	MS	MS	51	SMC - FANS							
	(M42)	10	MS	JD	10	CPU - THERMAL SENSOR	67	JD	JD	52						SMC - TPM	
M42	11	MS	JD	11	CPU - ITP CONN	S0	68	PT	JD	53	AUDIO - CODEC,VREG,MIC BIAS						
M1	12	PS	JH	12	NB - CPU INTERFACE	S0	72	PT	JD	54	AUDIO - INTERNAL SPEAKER AMP						
M1	13	PS	JH	13	NB - VIDEO INTERFACE	S0	73	PT	JD	55	AUDIO - I/O CONN'S,EMC						
C	14	PS	JH	14	NB - MISC INTERFACES	S0	74	PT	JD	56	AUDIO - DETECT TRANSLATORS						
M1	15	PS	JH	15	NB - DDR2 INTERFACE	RP	75	RT	RT	57	VR - CPU CORE						
M1	16	PS	JH	16	NB - POWER 1	RP	76	RT	RT	58	VR - CPU I-V SENSE CKT						
M1	17	PS	JH	17	NB - POWER 2	RP	77	RT	RT	59	VR - "S0" 1.2V & 2.5V (GRAFIX)						
M1	18	PS	JH	18	NB - GROUNDS	RP	78	RT	RT	60	VR - "S0" 1.8V						
	19	PS	JH	19	NB - DECAPS	RP	79	RT	RT	61	VR - "S3" 1.8V						
B	M1	20	PS	JH	20	NB - CONFIG STRAPS	RP	80	RT	RT	62	VR - "S0" 1.5V					
	21	JD	JD	21	SB - RTC, LAN, AUDIO, ATA, CPU, LPC	RP	81	RT	RT	63	VR - "S0" 1.05V						
	22	JD	JD	22	SB - PCIE, SPI, USB, DMI, PCI	RP	83	RT	RT	64	VR - "S3" 3.3V AND 5V						
	23	JD	JD	23	SB - SMB, GPIO, PM, CLKS	JH	84	JH	JH	65	GPU - M56 PCI-E						
	24	JD	JD	24	SB - POWERS AND GROUNDS	M1	85	JH	JH	66	GPU - VCORE SUPPLY						
	25	JD	JD	25	SB - DECAPS	M1	86	JH	JH	67	GPU - M56 CORE PWR						
	26	JD	JD	26	SB - MISC	M1	87	JH	JH	68	GPU - M56 FRAME BUFFER						
	27	JD	JD	27	SB - SMB BUS CONNECTIONS	M1	88	JH	JH	69	GPU - MISC						
	28	PS	JD	28	DDR2 - SO-DIMM CONN A	M1	89	JH	JH	70	GPU - GDDR SDRAM A						
	29	PS	JD	29	DDR2 - SO-DIMM CONN B (REVERSED)	M1	90	JH	JH	71	GPU - GDDR SDRAM B						
	30	PS	JD	30	DDR2 - TERMINATION	M1	91	JH	JH	72	GPU - M56 GPIO, DVO, MISC						
	M1	31	RT	RT	31	DDR2 - VTT SUPPLY	M1	92	JH	JH	73	GPU - M56 CLOCKS					
	M42	33	JD	JD	32	CLOCKS - GENERATOR	M1	93	JH	JH	74	GPU - M56 VIDEO INTERFACES					
	34	JD	JD	33	CLOCKS - TERMINATIONS	JH	94	JH	JH	75	GPU - INTERNAL DISPLAY CONN'S						
A	38	JD	JD	34	ATA (SATA AND IDE) CONN'S	JH	95	JH	JH	76	GPU - TP'S						
	(M42)	41	JD	JD	35	LAN - YUKON'S PCIE INTERFACE	JH	96	JH	JH	77	GPU - TMDS, INVERTER, EXT VGA					
	42	JD	JD	36	LAN - YUKON'S PWR, MISC	JH	97	JH	JH	78	GPU - EXTERNAL DISPLAY CONN'S						
	43	JD	JD	37	LAN - CONN	DIMENSIONS ARE IN MILLIMETERS XX ± _____ X.XX ± _____ X.XXX ± _____ ANGLES ± _____ DO NOT SCALE DRAWING THIRD ANGLE PROJECTION						METRIC		Apple Computer Inc.			
	44	JD	JD	38	FIREWIRE - FW323-06							DRAFTER	/	DESIGN CK	/	NOTICE OF PROPRIETARY PROPERTY	
	45	JD	JD	39	FIREWIRE - DECAPS							ENG APPD	/	MFG APPD	/	THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING	
	46	JD	JD	40	FIREWIRE - CONN'S							QA APPD	/	DESIGNER	/	I TO MAINTAIN THE DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART	
	47	JD	JD	41	USB - CONN'S							RELEASE	/	SCALE	/	TITLE	
						MATERIAL/FINISH NOTED AS APPLICABLE		SIZE D		DRAWING NUMBER 051-7148		REV. 13					
												SHT 1 OF 110					
8		7		6		5		4		3		2		1			

DIMENSIONS ARE IN MILLIMETERS

XX ± _____

X..XX ± _____

X..XXX ± _____

ANGLES ± _____

DO NOT SCALE DRAWING



THIRD ANGLE PROJECTION

METRIC

DRAFTER	/	DESIGN CK	/
ENG APPD	/	MFG APPD	/
QA APPD	/	DESIGNER	/
RELEASE	/	SCALE	NONE
MATERIAL/FINISH NOTED AS APPLICABLE		SIZE	D

 Apple Computer Inc.

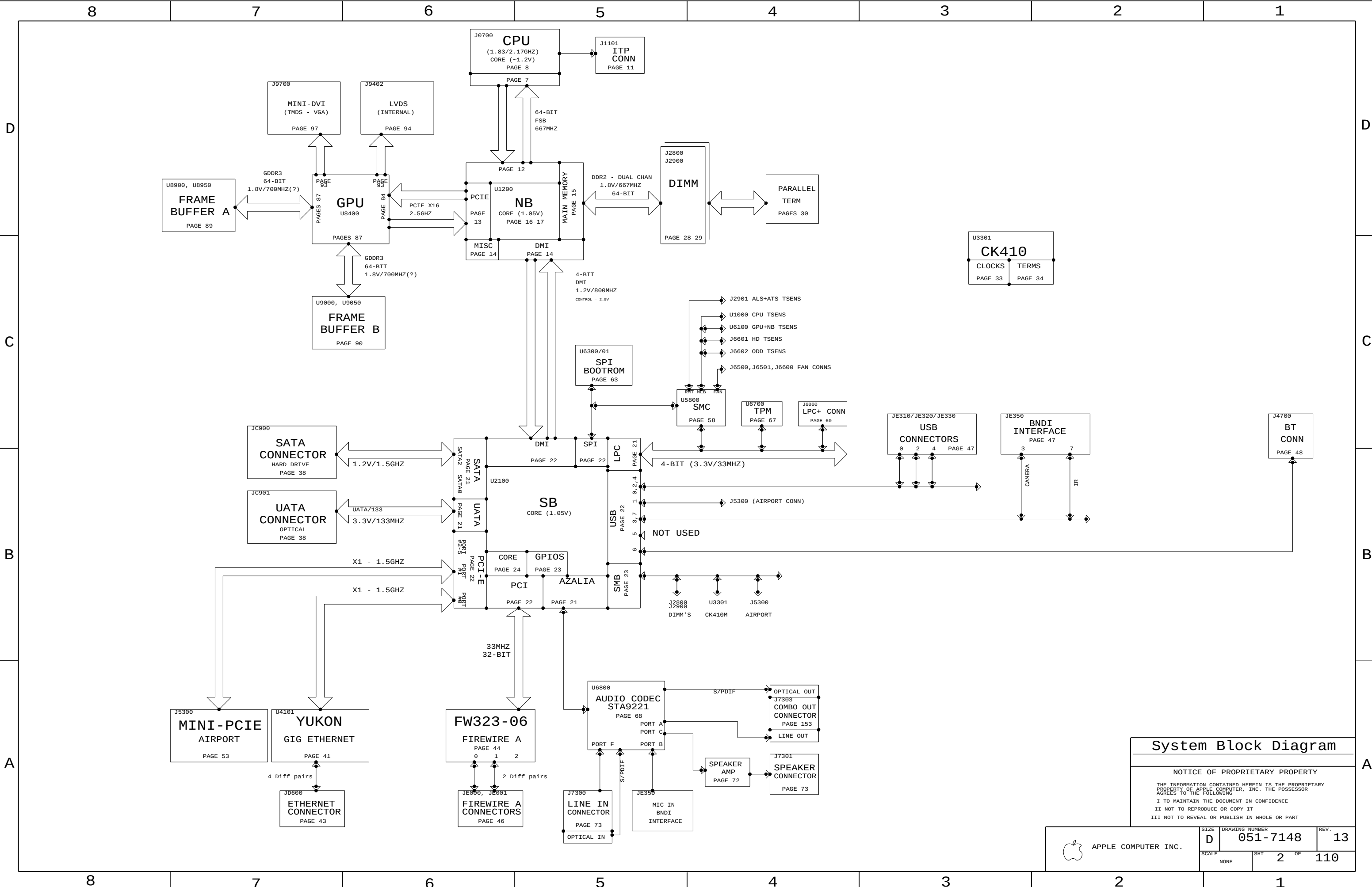
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TITLE
SCH, MLB, M38A

DRAWING NUMBER
051-7148

REV.
13

SHT 1 OF 110

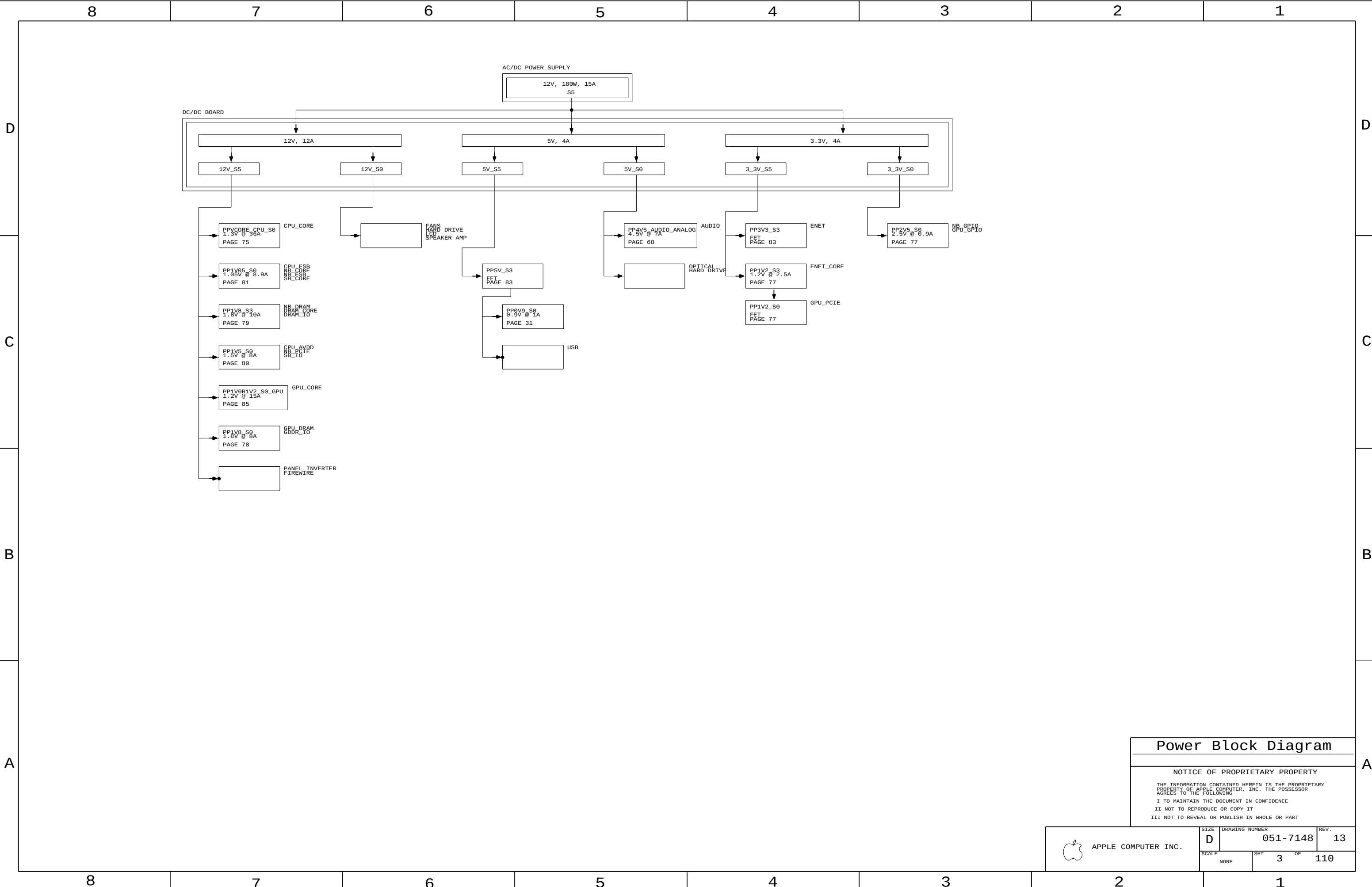


System Block Diagram

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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-7148	13
SCALE		SHT	2 OF 110
NONE			



Power Block Diagram

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SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE	SHT	OF
NONE	3	110

D	8		7		6		5		4		3		2		1																																																																																																
	COMMON																																																																																																														
	PART#		QTY	DESCRIPTION		REFERENCE DESIGNATOR(S)		CRITICAL	BOM OPTION																																																																																																						
	511S0025		1	IC, CPU-SKT, 479BGA		J0700		CRITICAL																																																																																																							
	338S0328		1	IC, 945PM, NORTHBRIDGE		U1200		CRITICAL																																																																																																							
	343S0305		1	IC, SB, 652BGA		U2100		CRITICAL																																																																																																							
	338S0344		1	IC, ATI, M56P, GRAFIXCTLR, 880BGA, LF		U8400		CRITICAL																																																																																																							
	359S0101		1	IC, CY28445-5, CLK GEN, 68PIN QFN		U3301		CRITICAL																																																																																																							
	338S0270		1	IC, 88E053, GIGABIT ENET XCVR, 64P QFN, NO		U4101		CRITICAL																																																																																																							
	(335S0382)		341S1797	1	IC, ENET LAN ROM		U4102		CRITICAL																																																																																																						
		338S0279	1	IC, FW32306, 1394A LINK, TQFP		U4400		CRITICAL																																																																																																							
UNSCREENED P/N 353S1235		341S1789	1	IC, TPM, TSSOP, 28P		U6700		CRITICAL	LEMENU																																																																																																						
		353S1465	1	IC, CPU VREG, IMVP, TWO PHASE		U7500		CRITICAL																																																																																																							
		128S0078	3	CAP, EL, AL, 330UF, 20%, 16V, 10X12.7MM, SMD, LF		C7517, C7518, C7910		CRITICAL																																																																																																							
		825-6447	1	MLB LABEL, 48.0X4.8		X14		CRITICAL																																																																																																							
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APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE	SHT	OF
NONE	4	110

LAYOUT NOTE: PLACE NEAR J0700

12 7 5FSB A L<6>PP600

12 7 5FSB ADSTB L<0>PP601

12 7 5FSB A L<27>PP602

12 7 5FSB ADSTB L<1>PP603

12 7 5FSB D L<0>PP604

12 7 5FSB DSTBN L<0>PP605

12 7 5FSB DSTBP L<0>PP606

12 7 5FSB DINV L<0>PP607

12 7 5FSB D L<16>PP608

12 7 5FSB DSTBN L<1>PP609

12 7 5FSB DSTBP L<1>PP610

12 7 5FSB DINV L<1>PP611

12 7 5FSB D L<41>PP612

12 7 5FSB DSTBN L<2>PP613

12 7 5FSB DSTBP L<2>PP614

12 7 5FSB DINV L<2>PP615

12 7 5FSB D L<59>PP616

12 7 5FSB DSTBN L<3>PP617

12 7 5FSB DSTBP L<3>PP618

12 7 5FSB DINV L<3>PP619

12 7 5FSB LOCK LPP620

12 11 7FSB CPURST LPP621

21 7CPU INIT LPP622

21 7CPU A20M LPP623

21 7CPU IGNNE LPP624

21 7CPU STPLCK LPP625

21 7CPU INTRPP626

21 7CPU NMI PP627

21 7CPU SMI LPP628

34 7FSB CLK CPU P PP629

34 7FSB CLK CPU N PP630

LAYOUT NOTE: PLACE NEAR U2100

34 21SB CLK100M SATA P PP6C4

34 21SB CLK100M SATA N PP6C5

38 21IDE PDIOR LPP6C6

38 21IDE PDIORDY PP6C7

38 21IDE PDD<9>PP6C8

34 22PCI CLK SBPP6D0

41 22PCIE A D2R P PP6D1

41 22PCIE A D2R N PP6D2

53 22PCIE B D2R P PP6E1

53 22PCIE B D2R N PP6E2

22 14DMI N2S P<0>PP6D3

22 14DMI N2S N<0>PP6D4

34 22SB CLK100M DMI P PP6D5

34 22SB CLK100M DMI N PP6D6

58 26 23PM SYSRST LPP6D7

58 42 23PM CLKRUN LPP6D8

34 23SB CLK14P3M TIMER PP6D9

34 23SB CLK48M USBCTLR PP6E0

LAYOUT NOTE: PLACE NEAR U8900

22 14DMI S2N N<0>PP673

22 14DMI S2N P<0>PP674

19 14MEM VREF_NB_0 PP6E1

19 14MEM VREF_NB_1 PP675

28 15MEM A DQ<7>PP676

28 15MEM A DQ<14>PP677

28 15MEM A DQ<16>PP678

28 15MEM A DQ<25>PP679

28 15MEM A DQ<39>PP680

28 15MEM A DQ<47>PP681

28 15MEM A DQ<54>PP682

28 15MEM A DQ<59>PP683

28 15MEM A DQS P<0>PP684

28 15MEM A DQS N<0>PP685

28 15MEM A DQS P<1>PP686

28 15MEM A DQS N<1>PP687

28 15MEM A DQS P<2>PP688

28 15MEM A DQS N<2>PP689

28 15MEM A DQS P<3>PP690

28 15MEM A DQS N<3>PP691

28 15MEM A DQS P<4>PP692

28 15MEM A DQS N<4>PP693

28 15MEM A DQS P<5>PP694

28 15MEM A DQS N<5>PP695

28 15MEM A DQS P<6>PP696

28 15MEM A DQS N<6>PP697

28 15MEM A DQS P<7>PP698

28 15MEM A DQS N<7>PP699

29 15MEM B DQ<6>PP6A0

29 15MEM B DQ<8>PP6A1

29 15MEM B DQ<23>PP6A2

29 15MEM B DQ<25>PP6A3

29 15MEM B DQ<38>PP6A4

29 15MEM B DQ<44>PP6A5

29 15MEM B DQ<48>PP6A6

29 15MEM B DQ<62>PP6A7

29 15MEM B DQS P<0>PP6A8

29 15MEM B DQS N<0>PP6A9

29 15MEM B DQS P<1>PP6B0

29 15MEM B DQS N<1>PP6B1

29 15MEM B DQS P<2>PP6B2

29 15MEM B DQS N<2>PP6B3

29 15MEM B DQS P<3>PP6B4

29 15MEM B DQS N<3>PP6B5

29 15MEM B DQS P<4>PP6B6

29 15MEM B DQS N<4>PP6B7

29 15MEM B DQS P<5>PP6B8

29 15MEM B DQS N<5>PP6B9

29 15MEM B DQS P<6>PP6C0

29 15MEM B DQS N<6>PP6C1

29 15MEM B DQS P<7>PP6C2

29 15MEM B DQS N<7>PP6C3

LAYOUT NOTE: PLACE NEAR U8400

89 87 5FB A DQ<0>PP8700

89 87 5FB A DQ<8>PP8701

89 87 5FB A DQ<16>PP8702

89 87 5FB A DQ<24>PP8703

89 87 5FB A DQ<32>PP8704

89 87 5FB A DQ<40>PP8705

89 87 5FB A DQ<48>PP8706

89 87 5FB A DQ<56>PP8707

89 87 5FB A MA<3>PP8708

89 87 5FB A RDQS<0>PP8709

89 87 5FB A RDQS<1>PP8710

89 87 5FB A RDQS<2>PP8711

89 87 5FB A RDQS<3>PP8712

89 87 5FB A RDQS<4>PP8713

89 87 5FB A RDQS<5>PP8714

89 87 5FB A RDQS<6>PP8715

89 87 5FB A RDQS<7>PP8716

96 87 5FB B DQ<0>PP8720

96 87 5FB B DQ<8>PP8721

96 87 5FB B DQ<16>PP8722

96 87 5FB B DQ<24>PP8723

96 87 5FB B DQ<32>PP8724

96 87 5FB B DQ<40>PP8725

96 87 5FB B DQ<48>PP8726

96 87 5FB B DQ<56>PP8727

96 87 5FB B MA<3>PP8728

96 87 5FB B RDQS<0>PP8729

96 87 5FB B RDQS<1>PP8730

96 87 5FB B RDQS<2>PP8731

96 87 5FB B RDQS<3>PP8732

96 87 5FB B RDQS<4>PP8733

96 87 5FB B RDQS<5>PP8734

96 87 5FB B RDQS<6>PP8735

96 87 5FB B RDQS<7>PP8736

84 34GPU CLK100M PCIE P PP8400

84 34GPU CLK100M PCIE N PP8401

LAYOUT NOTE: PLACE NEAR U4101

41 34ENET CLK100M PCIE P PP4100

41 34ENET CLK100M PCIE N PP4101

PLACE NEAR R1210 AND R1211

12 12NB FSB VREF

19 12 6=PP1V05_S0_FSB_NB

PP1200

PP1201

PP1202

PLACE NEAR R0705 AND R0706

11 9 8 7=PP1V05_S0_CPU

7CPU_GTLREF

PP700

PP701

PP702

PLACE NEAR R2800 AND R2801

29 28 6=PP1V05_S3_MEM

29 28MEM_VREF

PP2800

PP2801

PP2802

MISC GROUND VIAS

ZH500HOLE-VIA

ZH501HOLE-VIA

ZH502HOLE-VIA

ZH503HOLE-VIA

ZH504HOLE-VIA

ZH505HOLE-VIA

ZH506HOLE-VIA

ZH507HOLE-VIA

ZH508HOLE-VIA

ZH509HOLE-VIA

ZH510HOLE-VIA

ZH511HOLE-VIA

ZH512HOLE-VIA

ZH513HOLE-VIA

ZH514HOLE-VIA

ZH515HOLE-VIA

ZH516HOLE-VIA

ZH517HOLE-VIA

ZH518HOLE-VIA

ZH519HOLE-VIA

ZH520HOLE-VIA

ZH521HOLE-VIA

ZH522HOLE-VIA

ZH523HOLE-VIA

ZH524HOLE-VIA

ZH525HOLE-VIA

ZH526HOLE-VIA

ZH527HOLE-VIA

ZH528HOLE-VIA

ZH529HOLE-VIA

TP_PCI_CLK_SPARE

TP_MEM_B_A<14>

TP_MEM_B_A<15>

ENET_MDI_R_N<0>

ENET_MDI_R_N<1>

ENET_MDI_R_N<2>

ENET_MDI_R_N<3>

ENET_MDI_R_P<0>

ENET_MDI_R_P<1>

ENET_MDI_R_P<2>

ENET_MDI_R_P<3>

PLACE NEAR U8900

89 87 5FB A_CKE<0>PP8900

89 87 5FB A_CLK_P<0>PP8901

89 87 5FB A_CLK_N<0>PP8902

89 87 5FB A_CS_L<0>PP8903

89 87 5FB A_WE_L<0>PP8904

89 87 5FB A_CAS_L<0>PP8905

89 87 5FB A_MA<3>PP8906

89 87 5FB A_RAS_L<0>PP8907

96 87 5DRAM_RSTPP8908

96 87 5FB A_WDQS<0>PP8909

96 87 5FB A_WDQS<1>PP8910

96 87 5FB A_WDQS<3>PP8911

96 87 5FB A_WDQS<2>PP8912

96 87 5FB A_DQ<0>PP8913

96 87 5FB A_DQ<8>PP8914

96 87 5FB A_DQ<16>PP8915

96 87 5FB A_DQ<24>PP8916

PLACE NEAR U9000

96 87 5FB B_CKE<0>PP9000

96 87 5FB B_CLK_P<0>PP9001

96 87 5FB B_CLK_N<0>PP9002

96 87 5FB B_CS_L<0>PP9003

96 87 5FB B_WE_L<0>PP9004

96 87 5FB B_CAS_L<0>PP9005

96 87 5FB B_RAS_L<0>PP9006

96 87 5FB B_MA<3>PP9007

96 87 5DRAM_RSTPP9008

96 87 5FB B_WDQS<0>PP9009

96 87 5FB B_WDQS<1>PP9010

96 87 5FB B_WDQS<3>PP9011

96 87 5FB B_WDQS<2>PP9012

96 87 5FB B_DQ<0>PP9013

96 87 5FB B_DQ<8>PP9014

96 87 5FB B_DQ<16>PP9015

96 87 5FB B_DQ<24>PP9016

PLACE NEAR U8950

89 87 5FB A_CKE<1>PP8920

89 87 5FB A_CLK_P<1>PP8921

89 87 5FB A_CLK_N<1>PP8922

89 87 5FB A_CS_L<1>PP8923

89 87 5FB A_WE_L<1>PP8924

89 87 5FB A_CAS_L<1>PP8925

89 87 5FB A_RAS_L<1>PP8926

89 87 5FB A_MA<3>PP8927

96 87 5DRAM_RSTPP8928

96 87 5FB A_WDQS<5>PP8929

96 87 5FB A_WDQS<6>PP8930

96 87 5FB A_WDQS<4>PP8931

96 87 5FB A_WDQS<7>PP8932

96 87 5FB B_DQ<32>PP8933

96 87 5FB A_DQ<40>PP8934

96 87 5FB A_DQ<48>PP8935

96 87 5FB A_DQ<56>PP8936

PLACE NEAR U9050

96 87 5FB B_CKE<1>PP9020

96 87 5FB B_CLK_P<1>PP9021

96 87 5FB B_CLK_N<1>PP9022

96 87 5FB B_CS_L<1>PP9023

96 87 5FB B_WE_L<1>PP9024

96 87 5FB B_CAS_L<1>PP9025

96 87 5FB B_RAS_L<1>PP9026

96 87 5FB B_MA<3>PP9027

96 87 5DRAM_RSTPP9028

96 87 5FB B_WDQS<5>PP9029

96 87 5FB B_WDQS<6>PP9030

96 87 5FB B_WDQS<7>PP9031

96 87 5FB B_WDQS<4>PP9032

96 87 5FB B_DQ<32>PP9033

96 87 5FB B_DQ<40>PP9034

96 87 5FB B_DQ<48>PP9035

96 87 5FB B_DQ<56>PP9036

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1

APPLE COMPUTER INC.

D

051-7148

13

SCALE

NONE

SHT

5

OF

110

FUNC TEST 1 OF 2

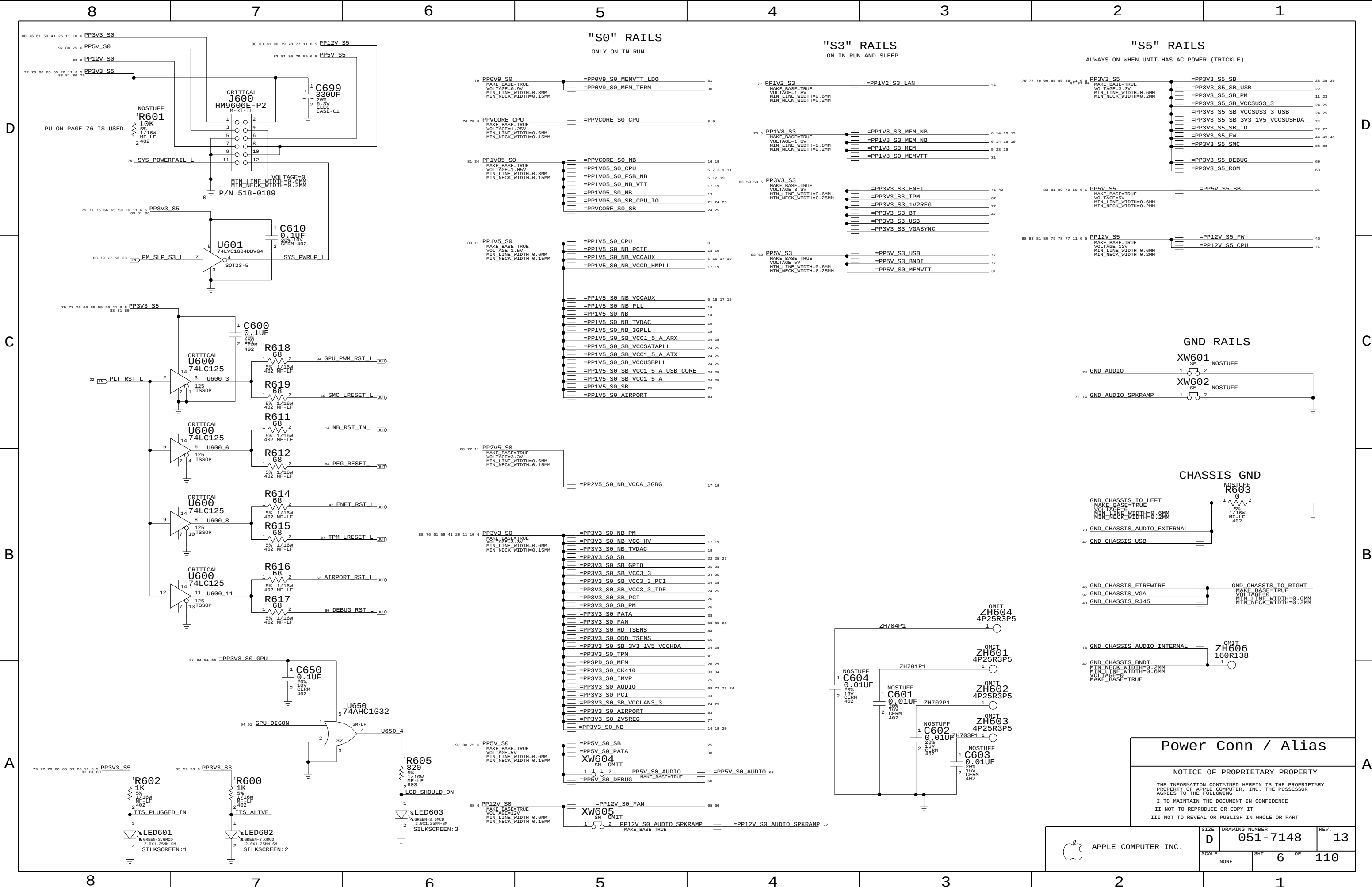
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Power Conn / Alias

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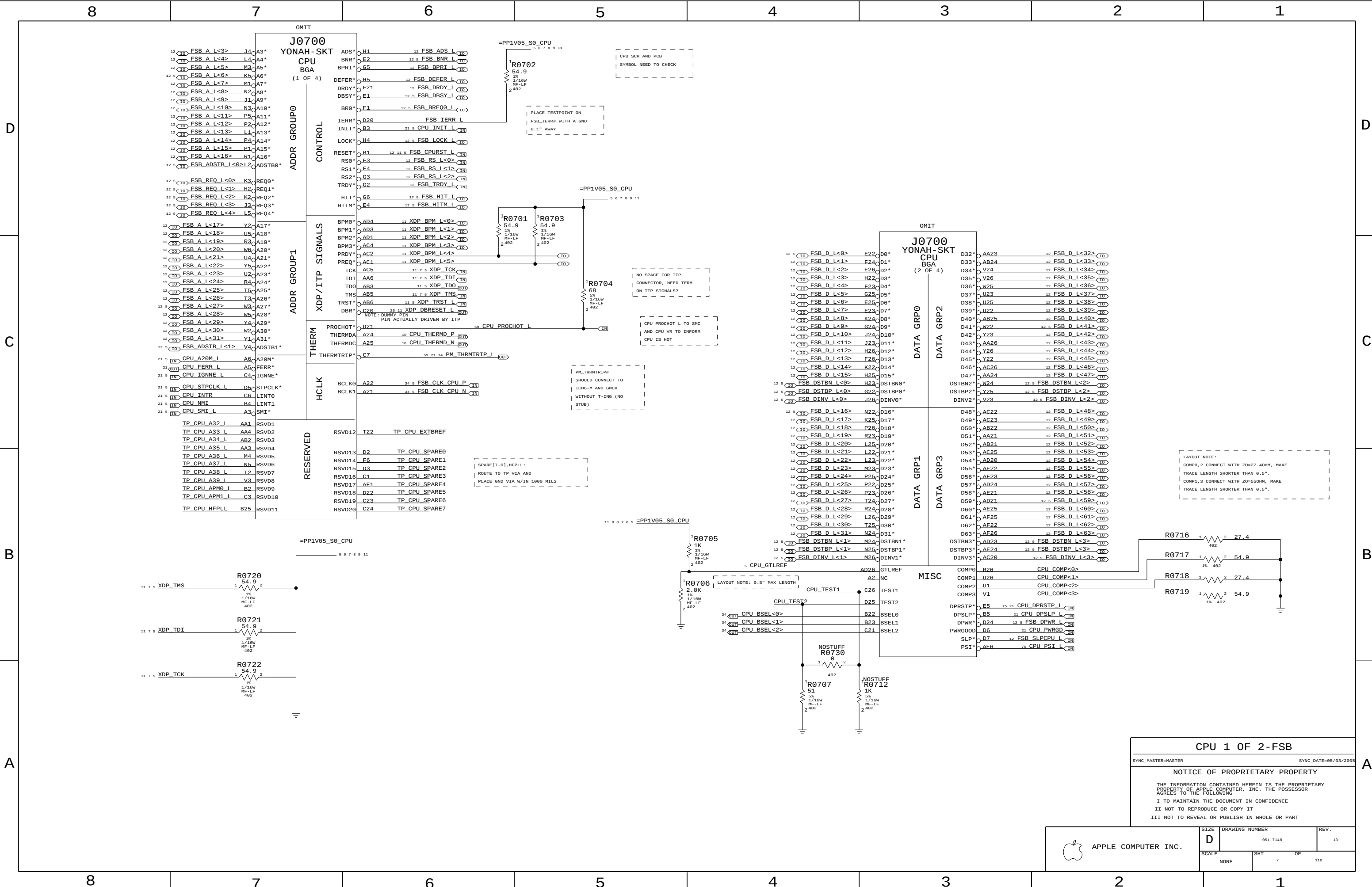
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APPLE COMPUTER INC.

SIZE D DRAWING NUMBER 051-7148 REV. 13

SCALE NONE SHT 6 OF 110



CPU 1 OF 2-FSB

SYNC_MASTER=MASTER SYNC_DATE=05/03/2005

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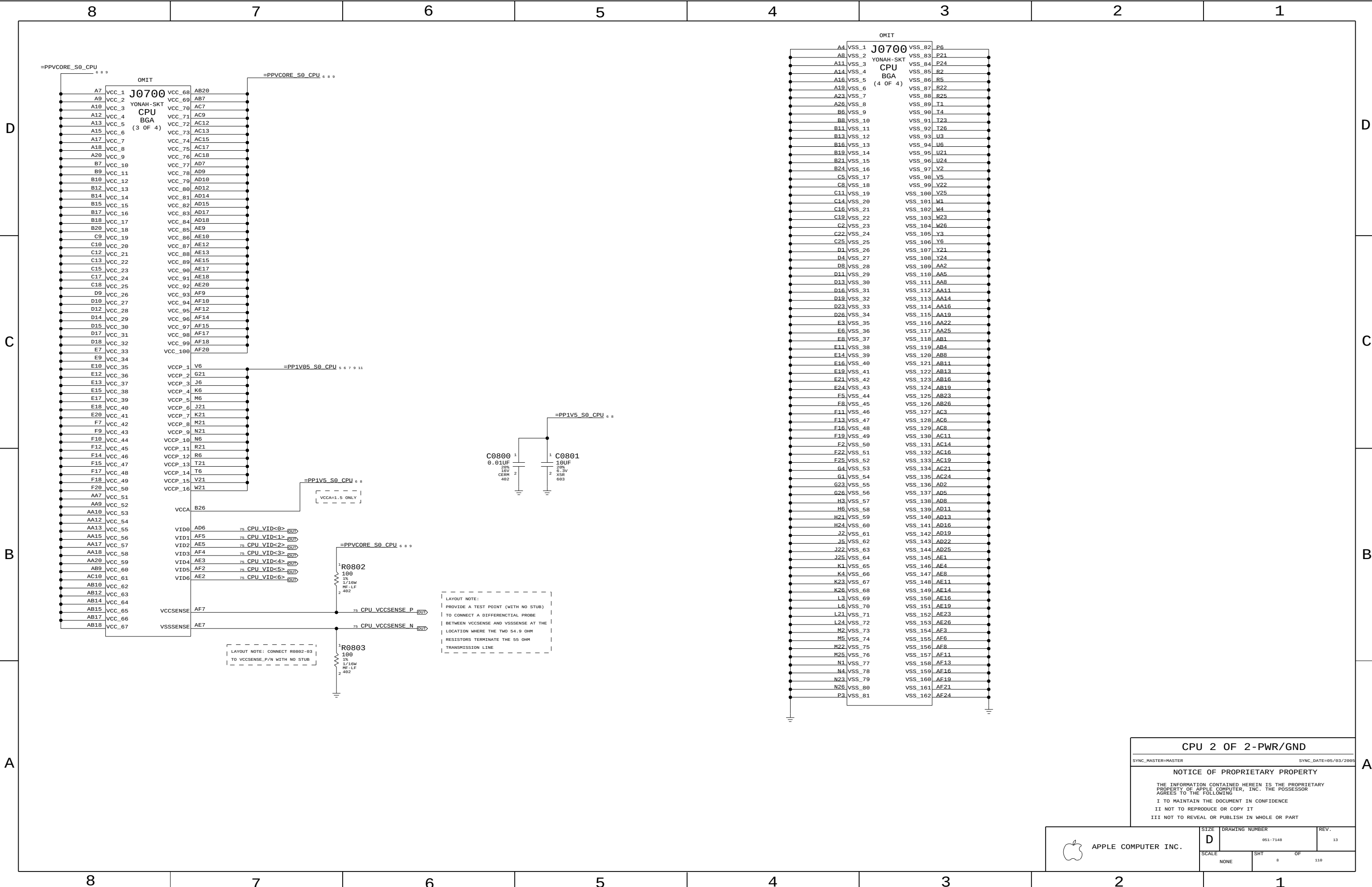
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SIZE D	DRAWING NUMBER 061-7148	REV. 13
	SCALE NONE	SHT 7 OF 110





CPU 2 OF 2 - PWR/GND

SYNC_MASTER=MASTER SYNC_DATE=05/03/2005

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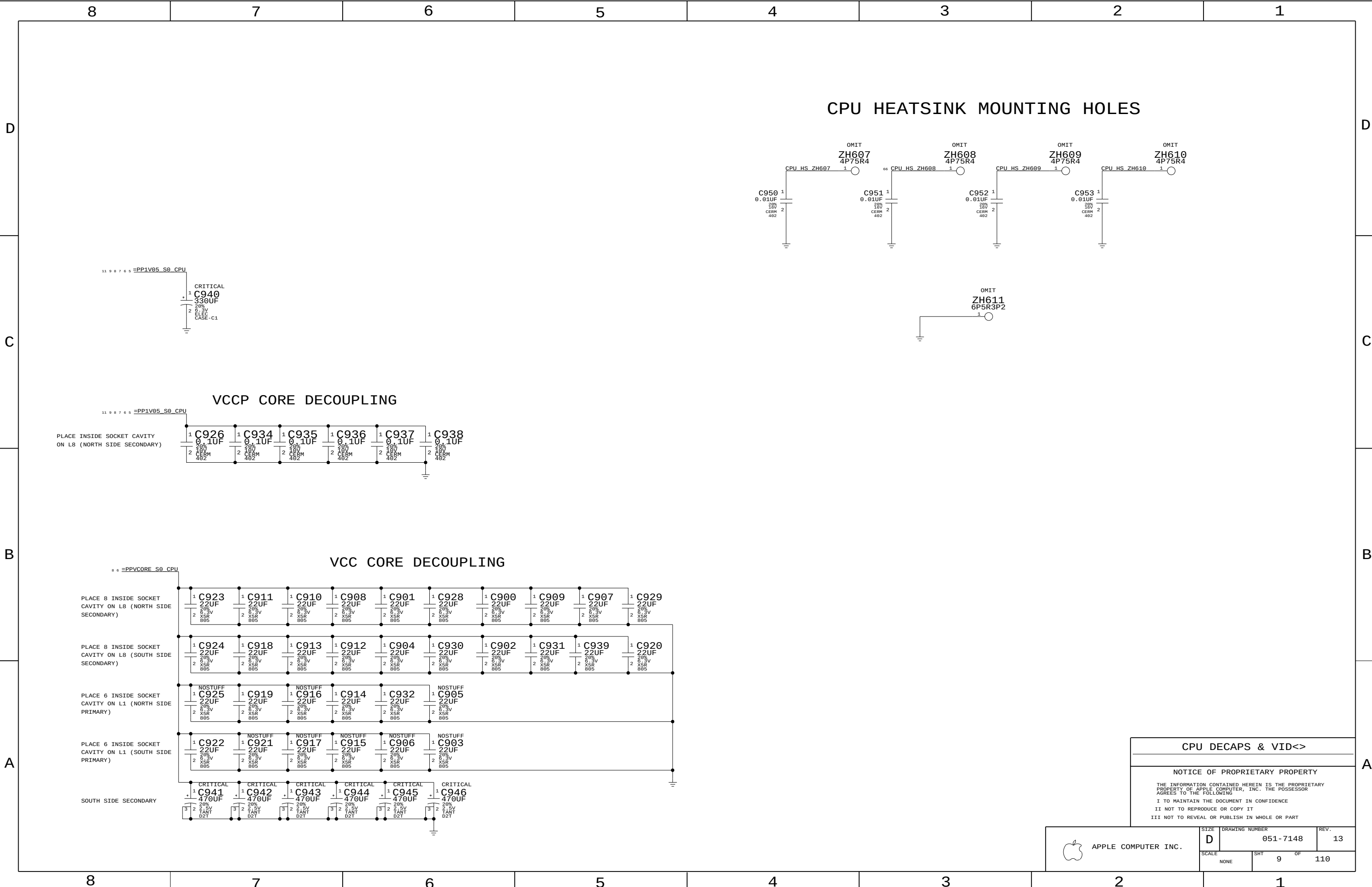
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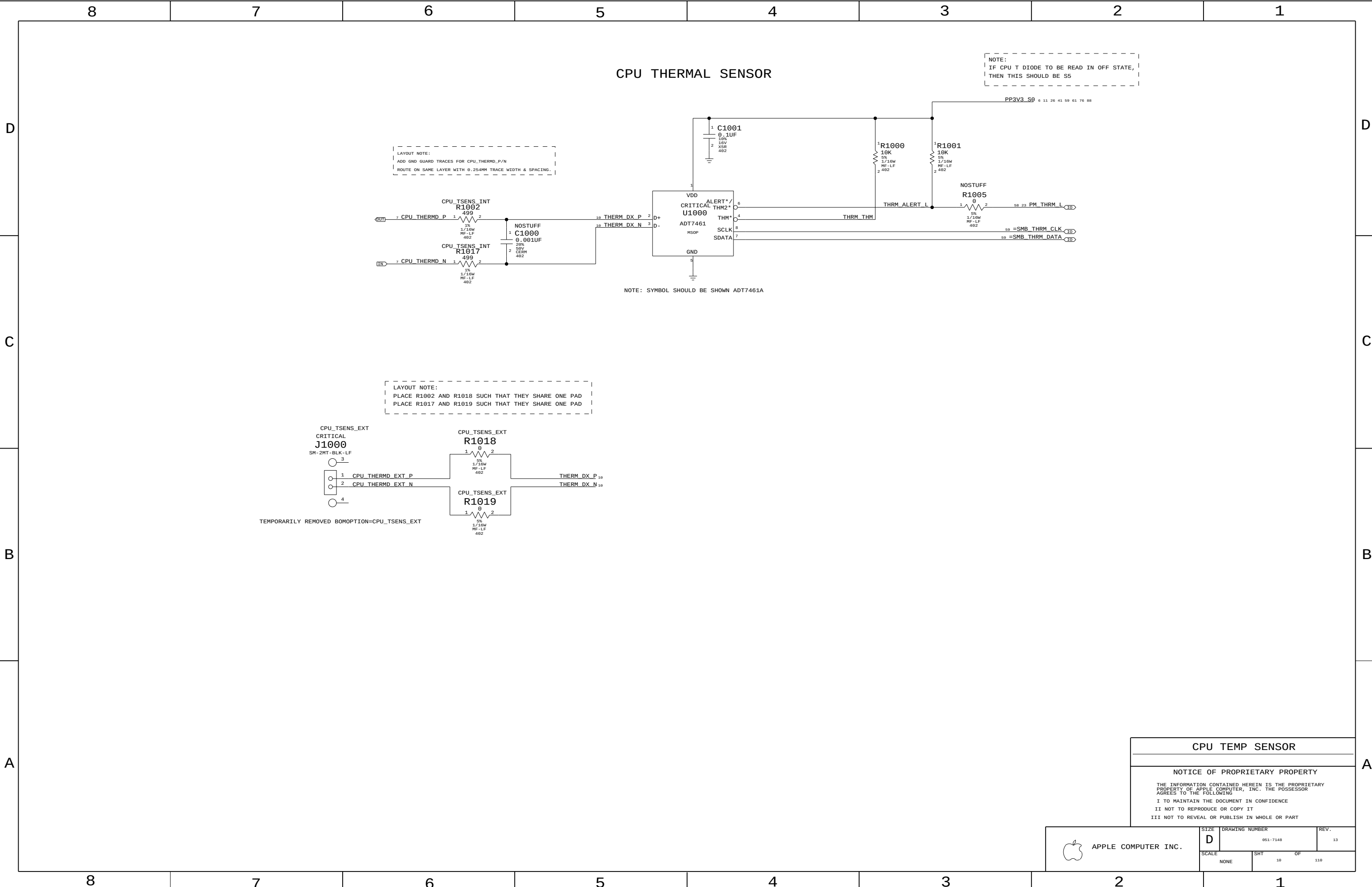
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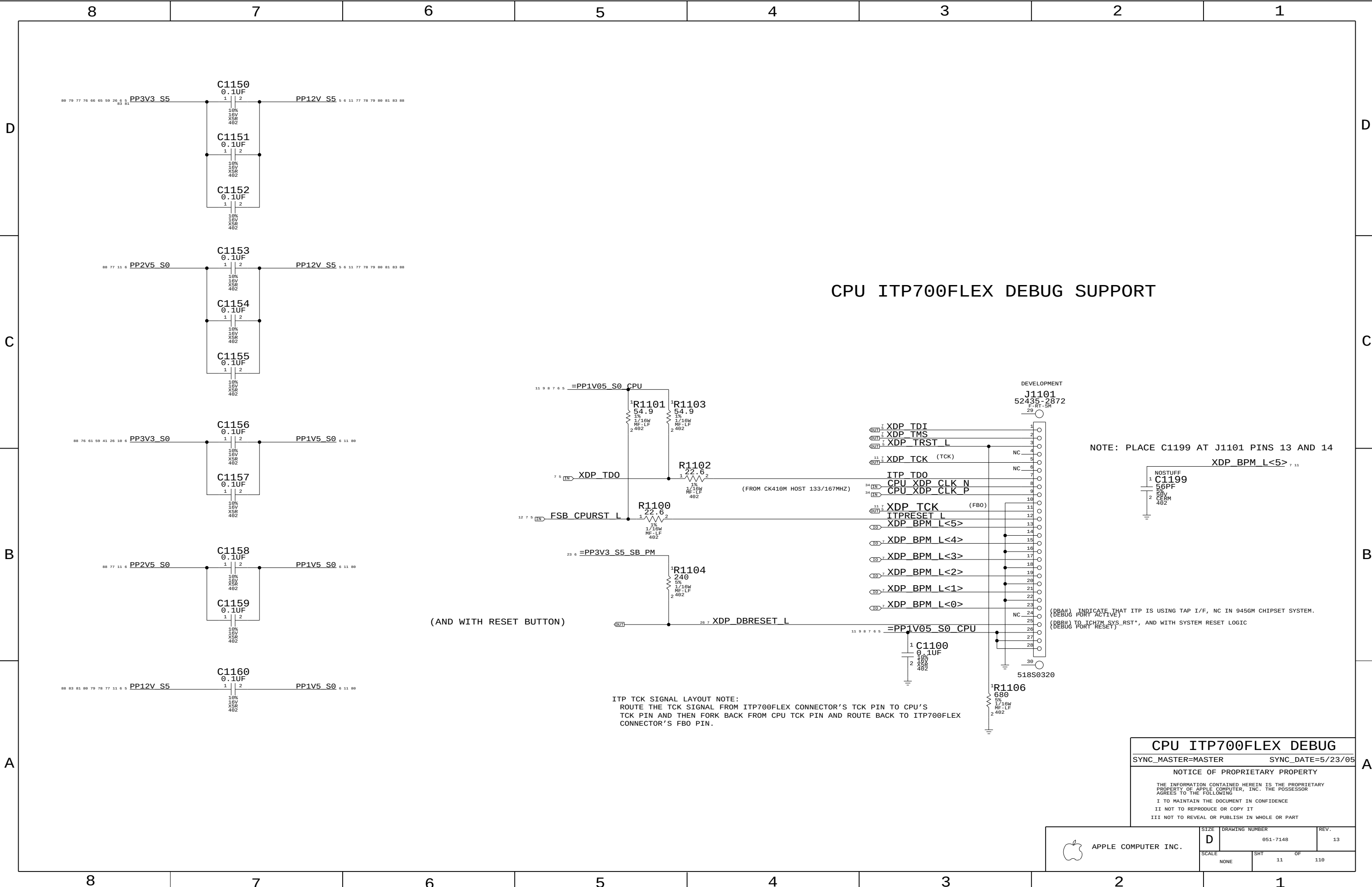
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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	001-7148	13
SCALE	NONE	SHT	OF
		8	110







CPU ITP700FLEX DEBUG SUPPORT

NOTE: PLACE C1199 AT J1101 PINS 13 AND 14



(DBA#) INDICATE THAT ITP IS USING TAP I/F, NC IN 9456M CHIPSET SYSTEM.
(DEBUG PORT ACTIVE)
(DEBUG PORT SYS_RST*, AND WITH SYSTEM RESET LOGIC
(DEBUG PORT RESET)

ITP TCK SIGNAL LAYOUT NOTE:
ROUTE THE TCK SIGNAL FROM ITP700FLEX CONNECTOR'S TCK PIN TO CPU'S
TCK PIN AND THEN FORK BACK FROM CPU TCK PIN AND ROUTE BACK TO ITP700FLEX
CONNECTOR'S FBO PIN.

CPU ITP700FLEX DEBUG

SYNC_MASTER=MASTER SYNC_DATE=5/23/05

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APPLE COMPUTER INC.

SIZE
D

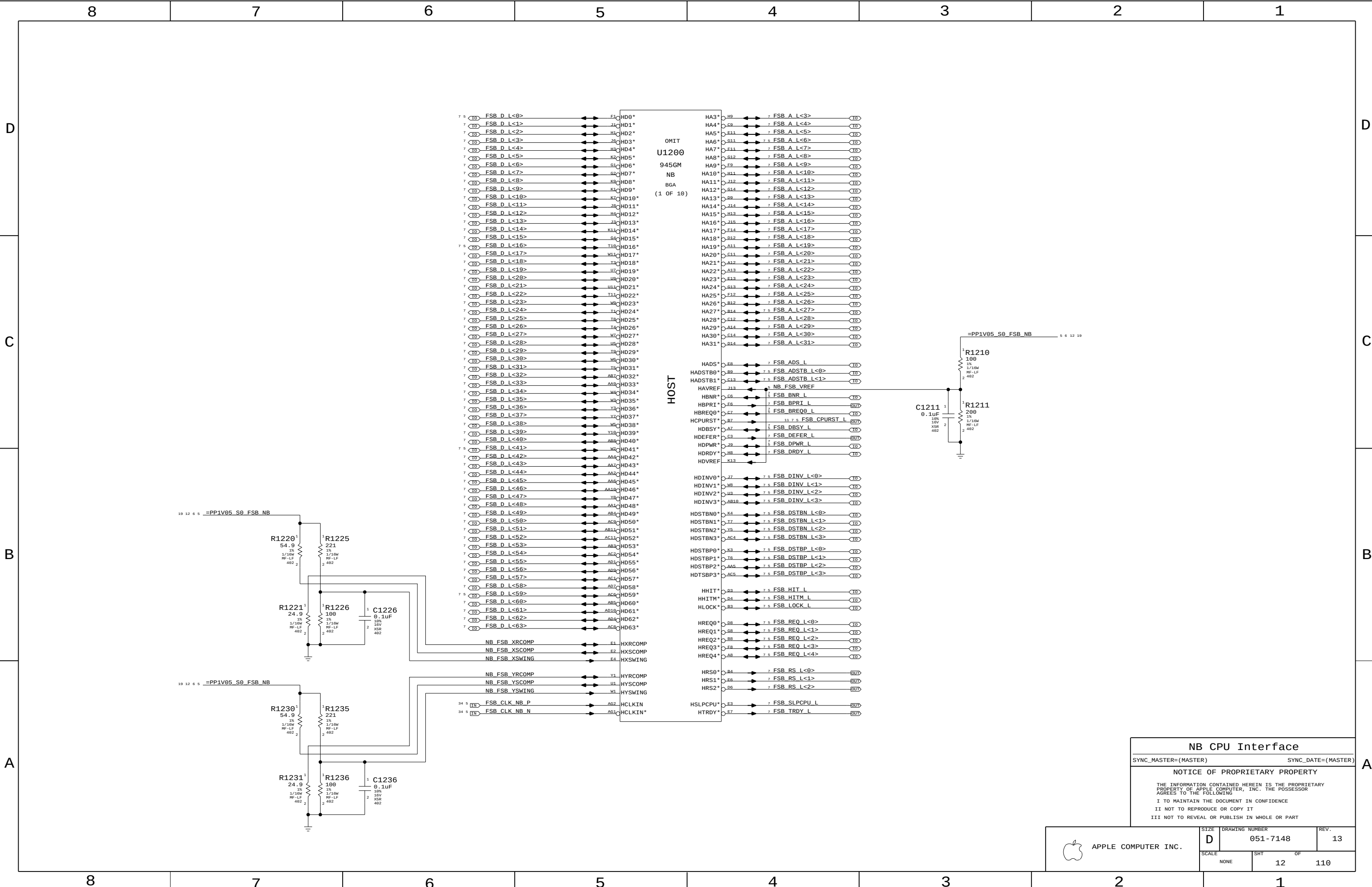
DRAWING NUMBER
051-7148

REV.
13

SCALE
NONE

SHT
11

OF
110



NB CPU Interface

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

NOTICE OF PROPRIETARY PROPERTY

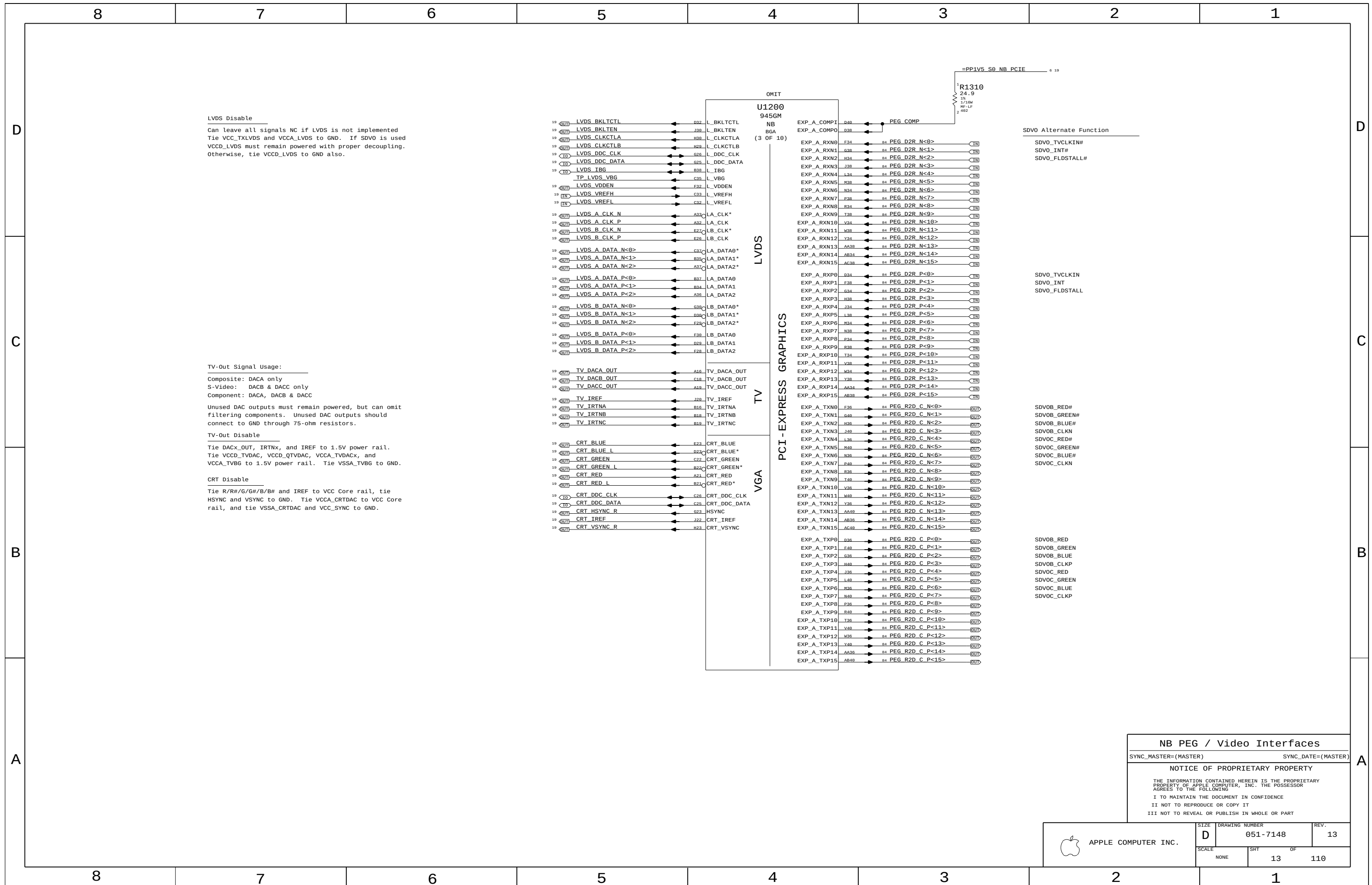
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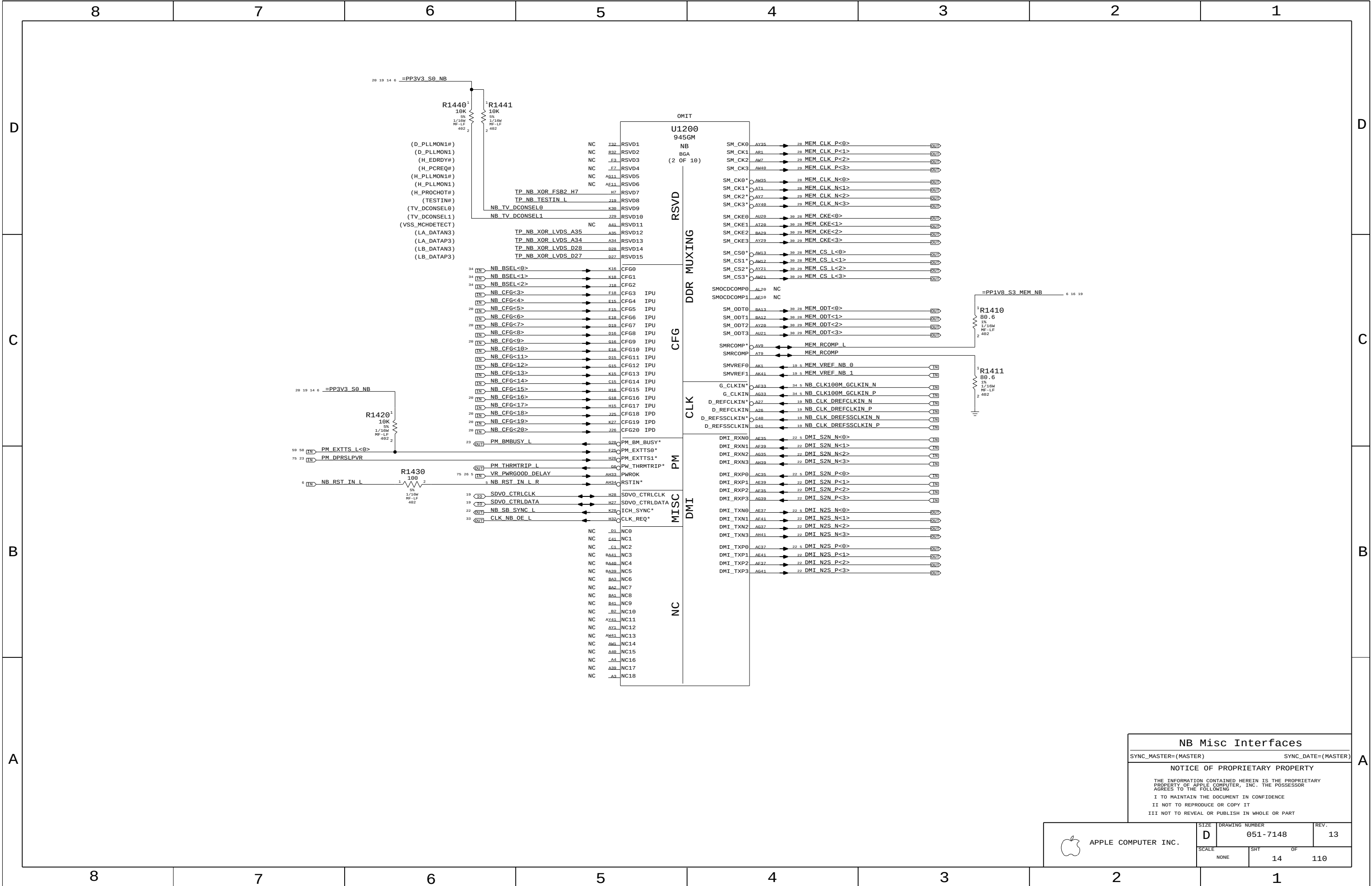
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APPLE COMPUTER INC.	SIZE D	DRAWING NUMBER 051-7148	REV. 13
	SCALE NONE	SHT 12	OF 110





NB Misc Interfaces

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

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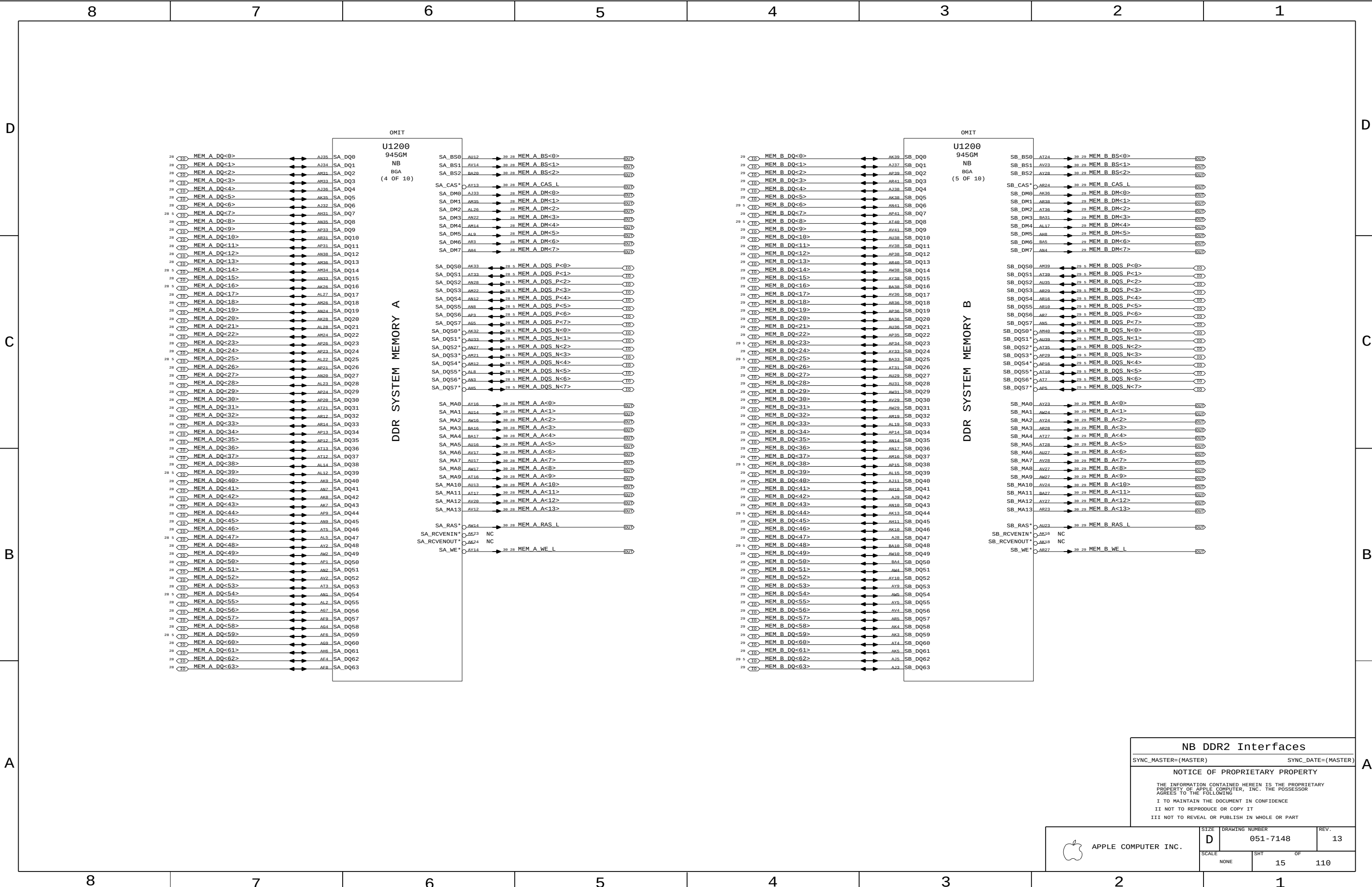
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	SCALE NONE	SHT 14	OF 110



NB DDR2 Interfaces

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

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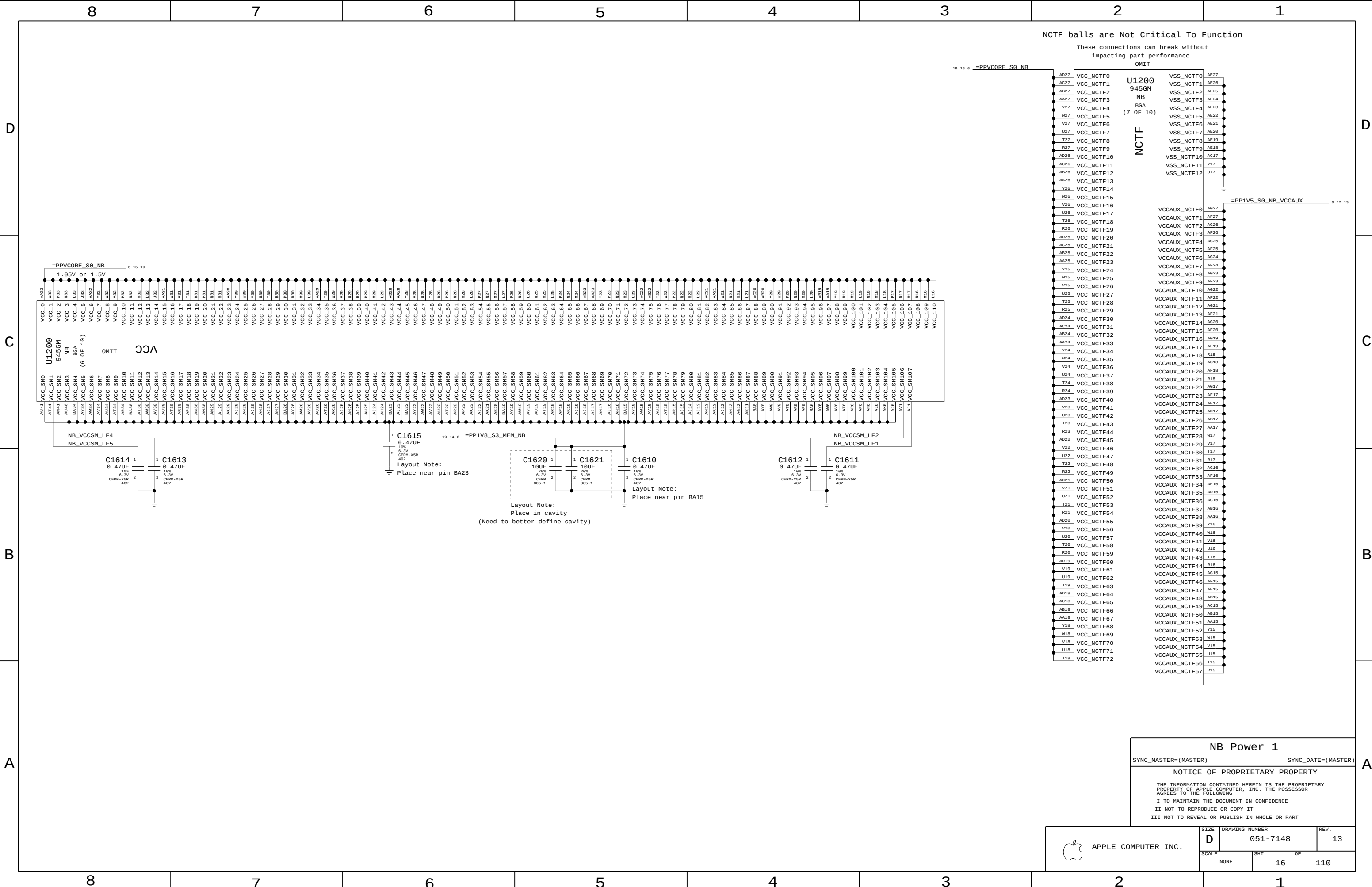
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	SCALE NONE	SHT 15	OF 110



NB Power 1

SYNC_MASTER=(MASTER)

SYNC_DATE=(MASTER)

NOTICE OF PROPRIETARY PROPERTY

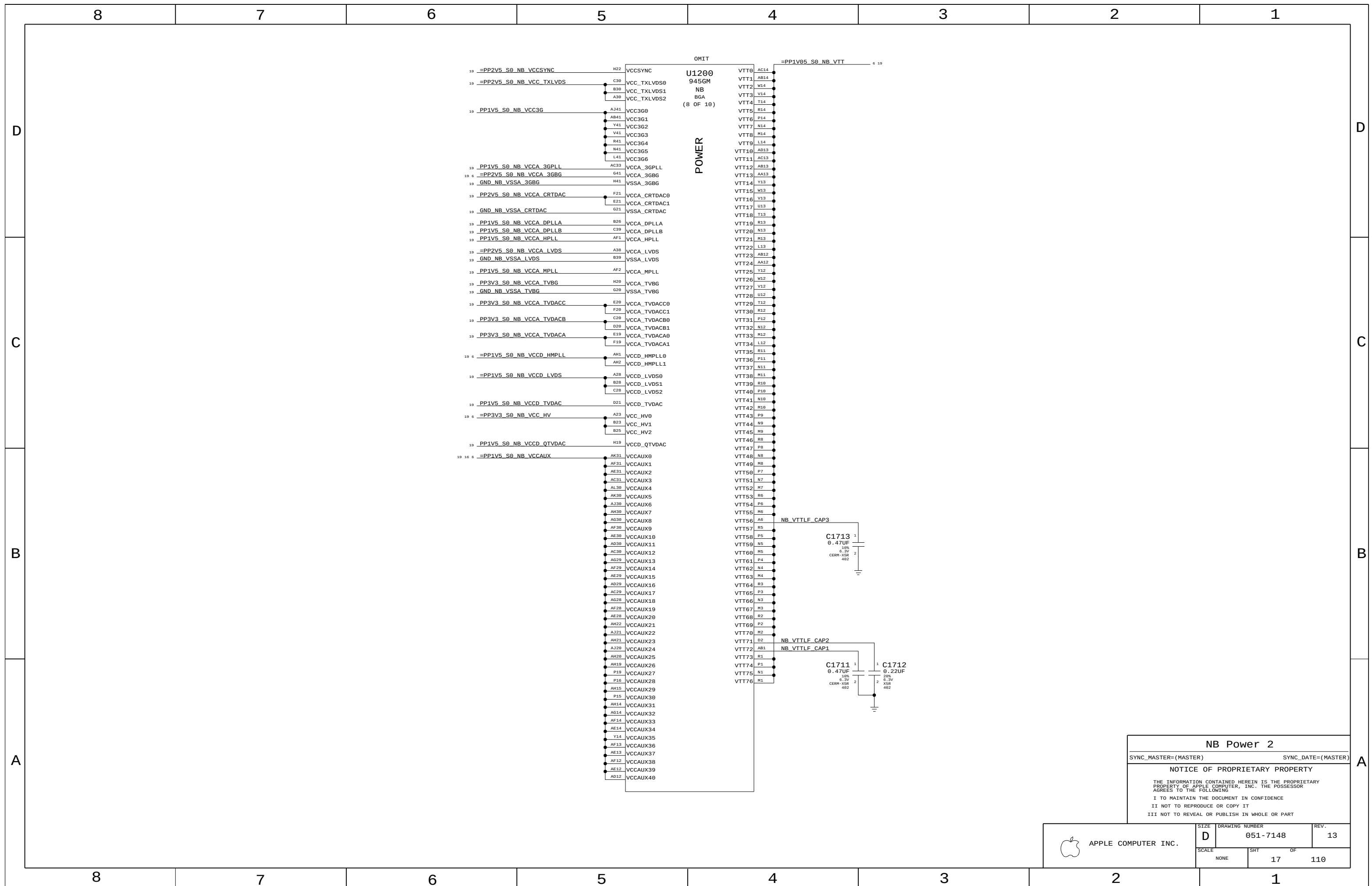
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

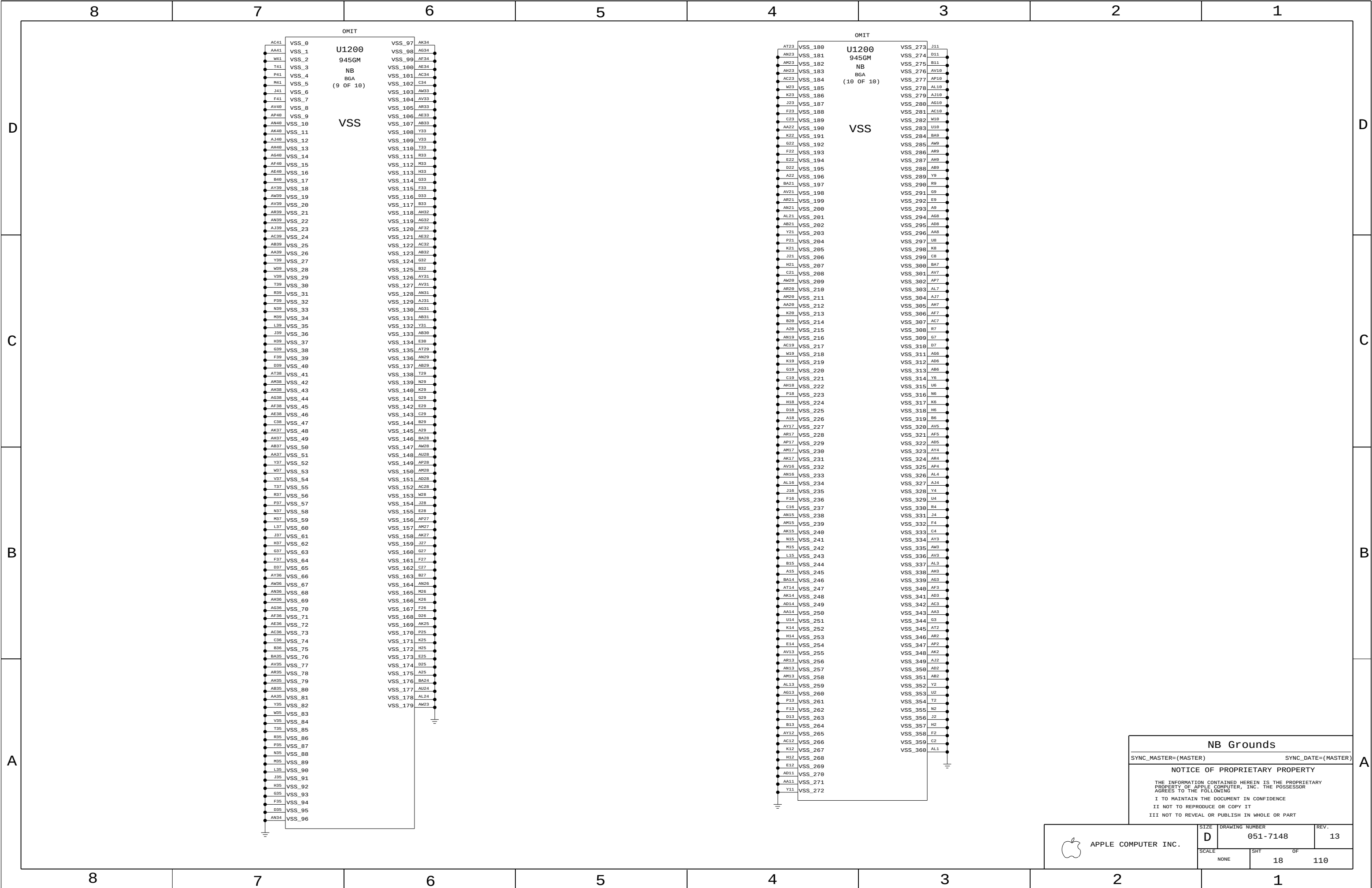
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III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-7148	13
SCALE	SHT OF		
	NONE	16	110





NB Grounds

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

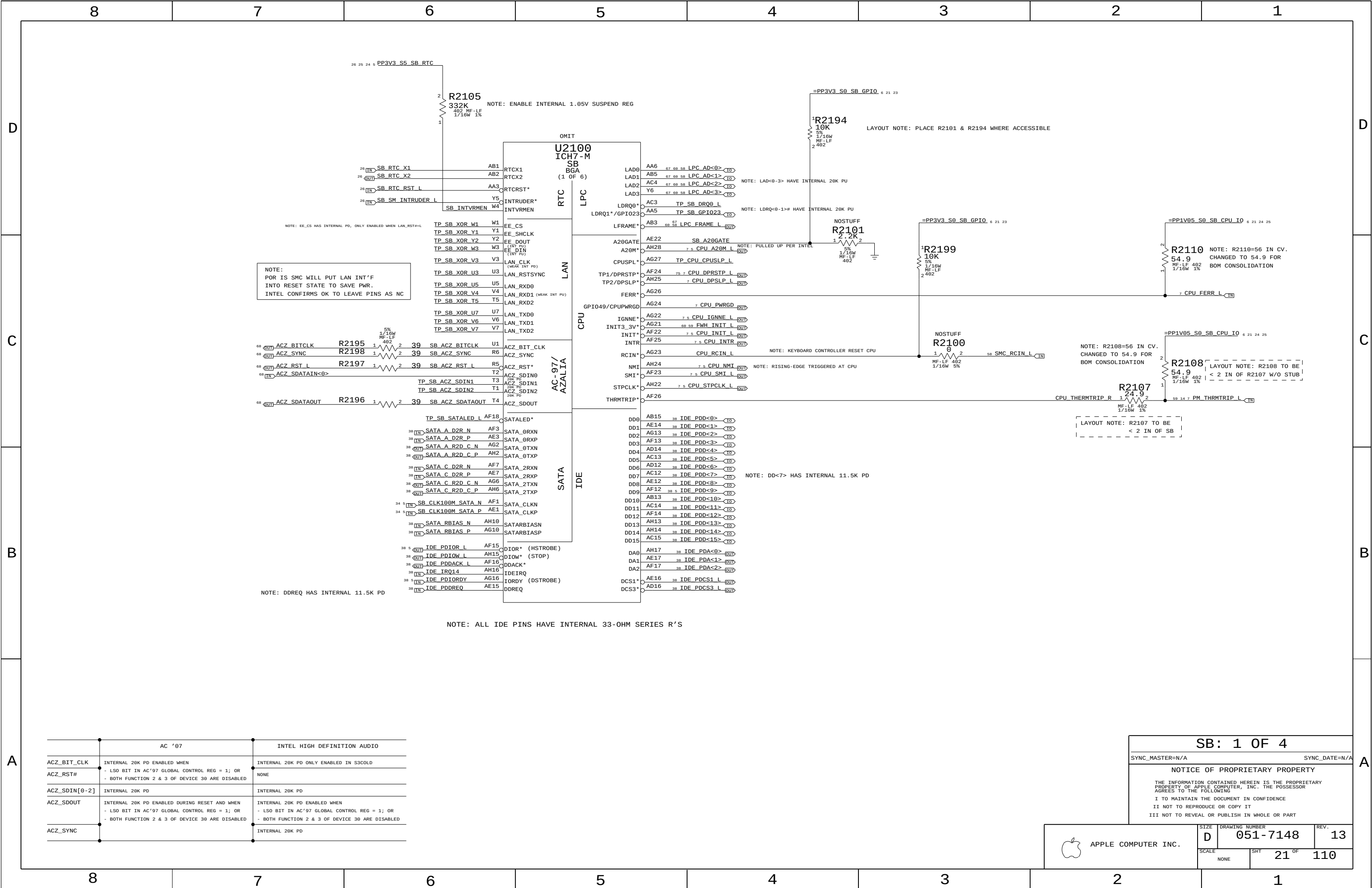
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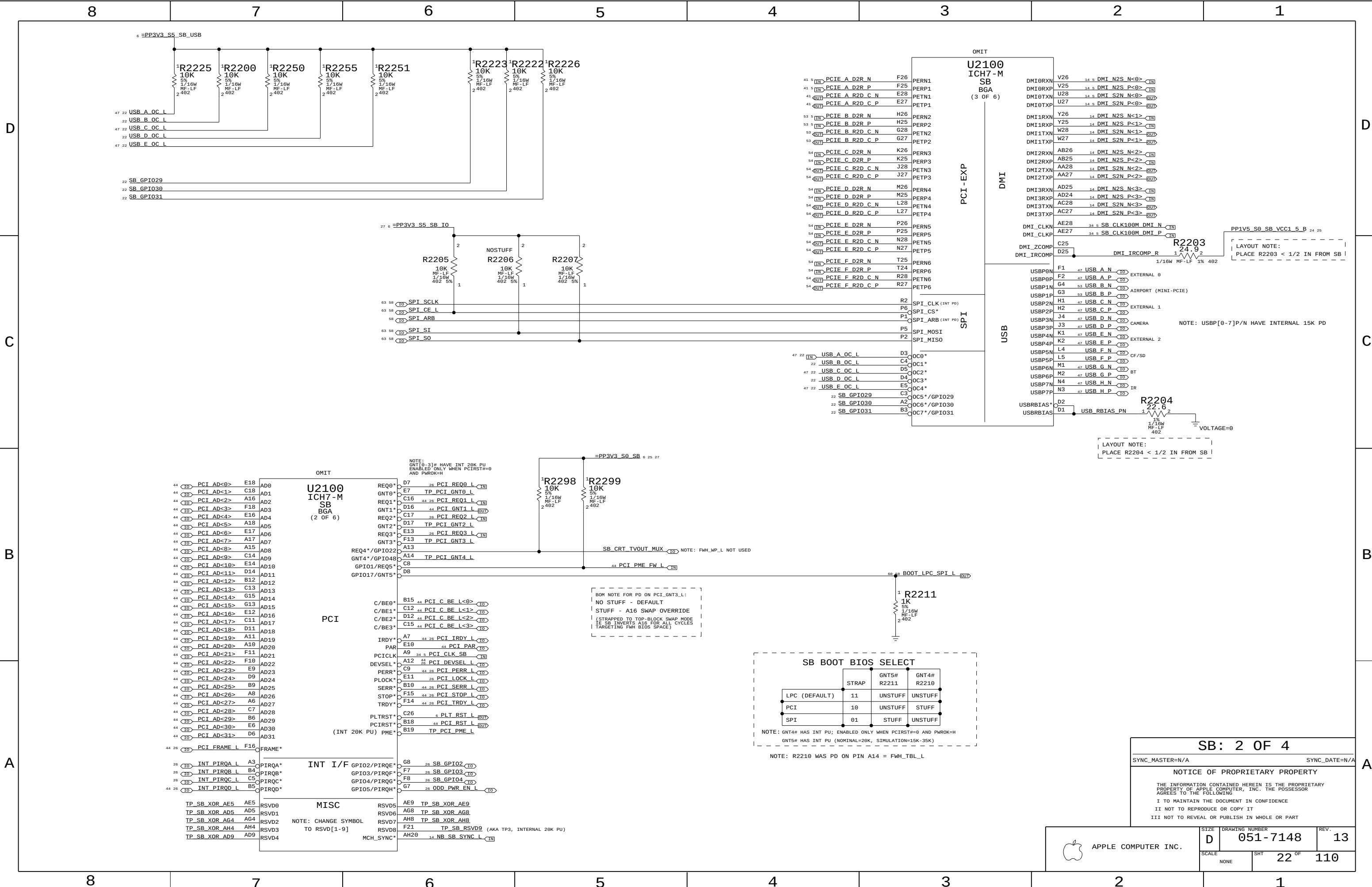
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SB BOOT BIOS SELECT			
	STRAP	GNT5# R2211	GNT4# R2210
LPC (DEFAULT)	11	UNSTUFF	UNSTUFF
PCI	10	UNSTUFF	STUFF
SPI	01	STUFF	UNSTUFF

NOTE: GNT4# HAS INT PU; ENABLED ONLY WHEN PCIRST#0 AND PWROK=H
GNT5# HAS INT PU (NOMINAL=20K, SIMULATION=15K-35K)

NOTE: R2210 WAS PD ON PIN A14 = FWH_TBL_L

SB: 2 OF 4

SYNC_MASTER=N/A

SYNC_DATE=N/A

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APPLE COMPUTER INC.

SCALE
NONE

D

DRAWING NUMBER
051-7148

13

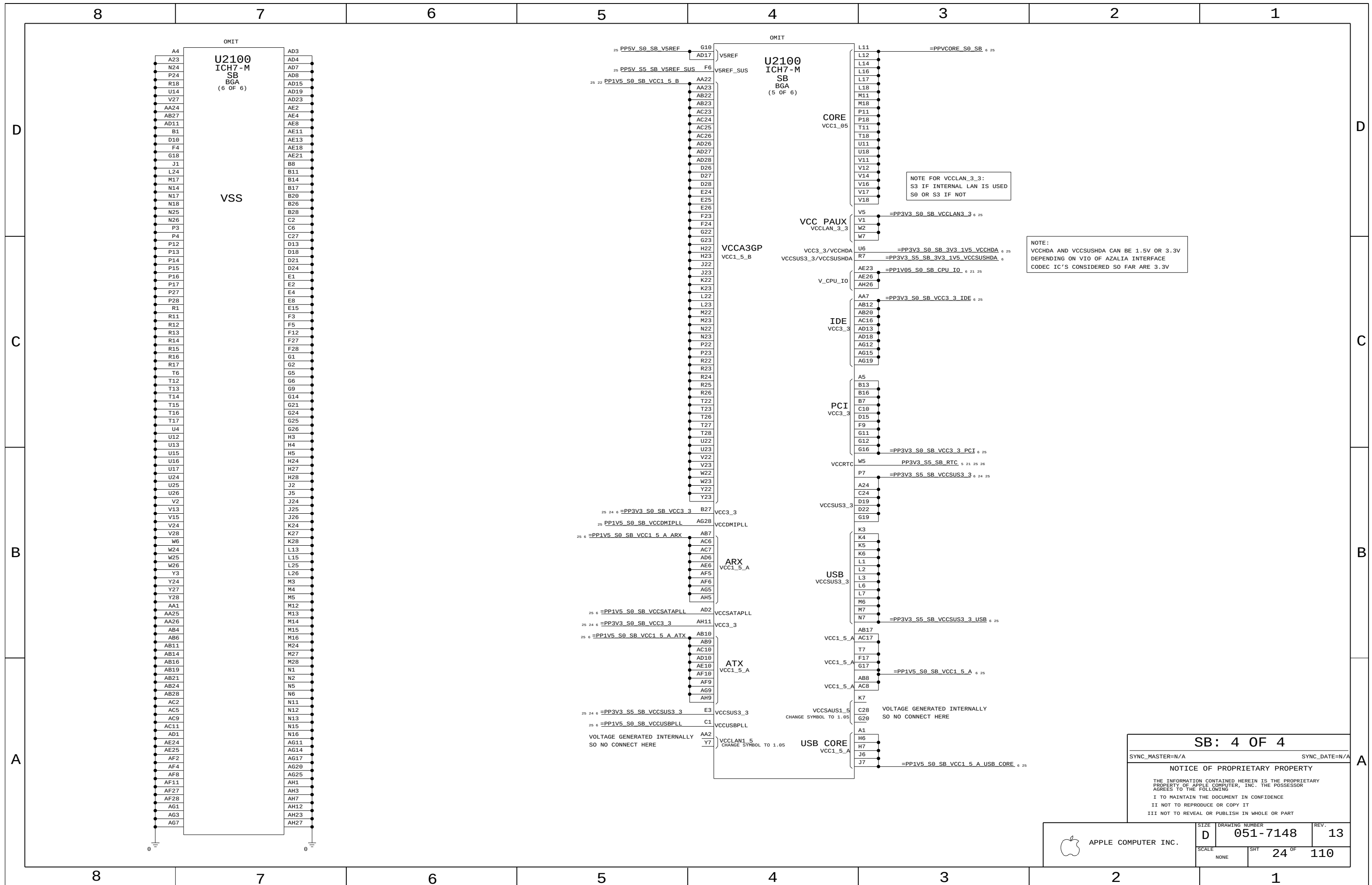
REV.

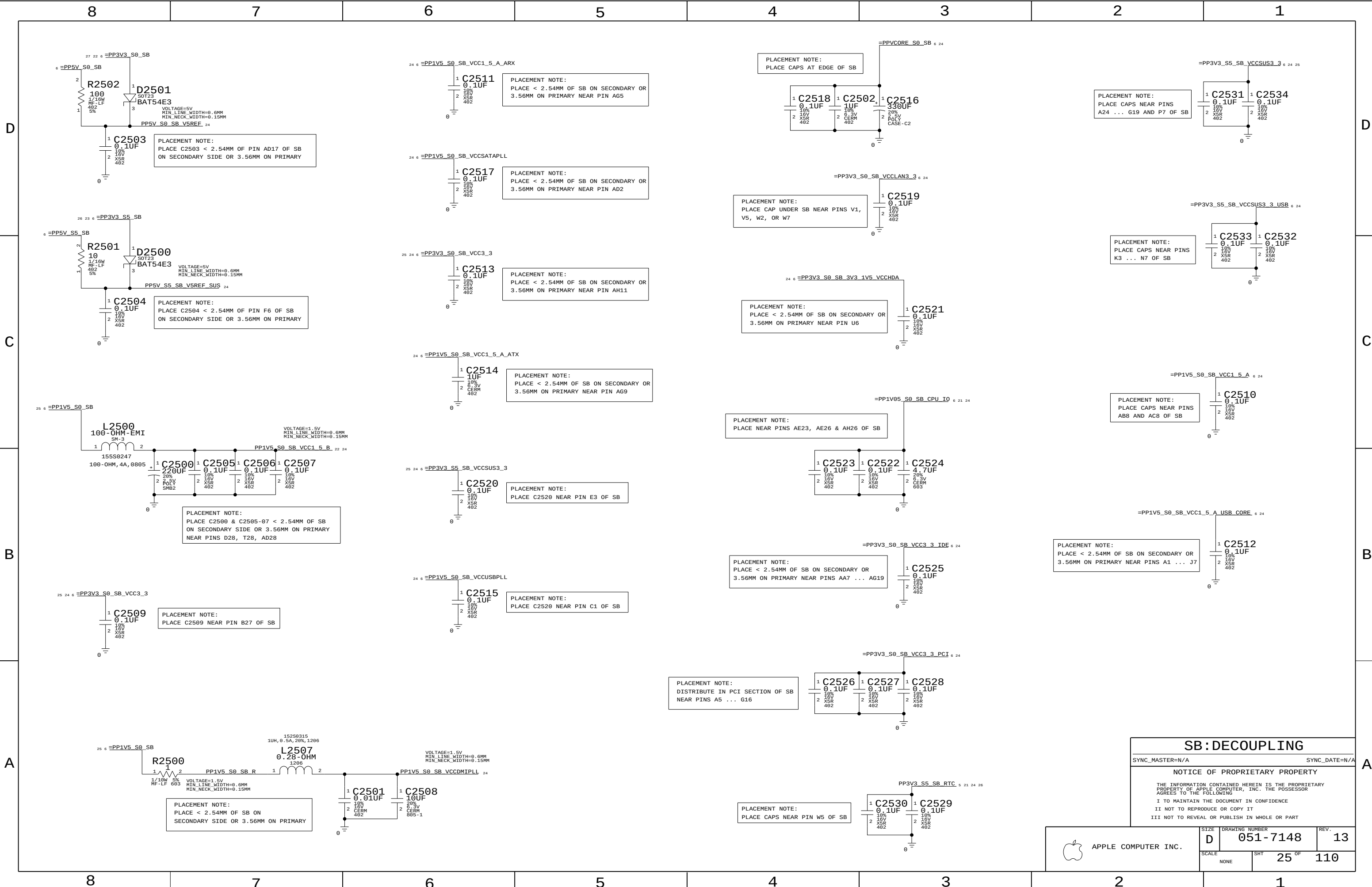
22

SHT

110

OF





SB: DECOUPLING

SYNC_MASTER=N/A

SYNC_DATE=N/A

NOTICE OF PROPRIETARY PROPERTY

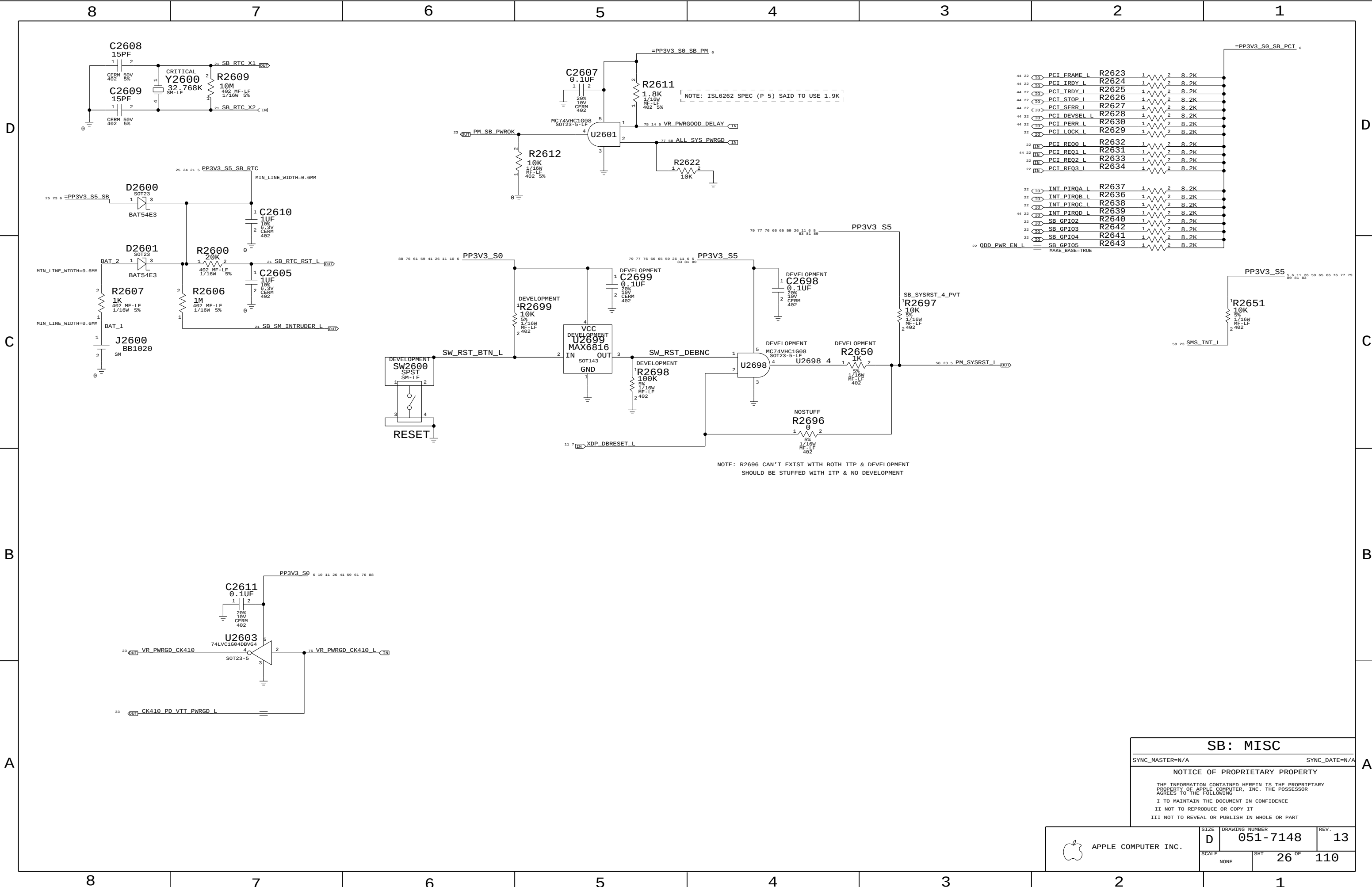
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	D	051-7148	13
	SCALE	SHT	25 OF 110
	NONE		



SB: MISC

SYNC_MASTER=N/A

SYNC_DATE=N/A

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SCALE: NONE

D

DRAWING NUMBER

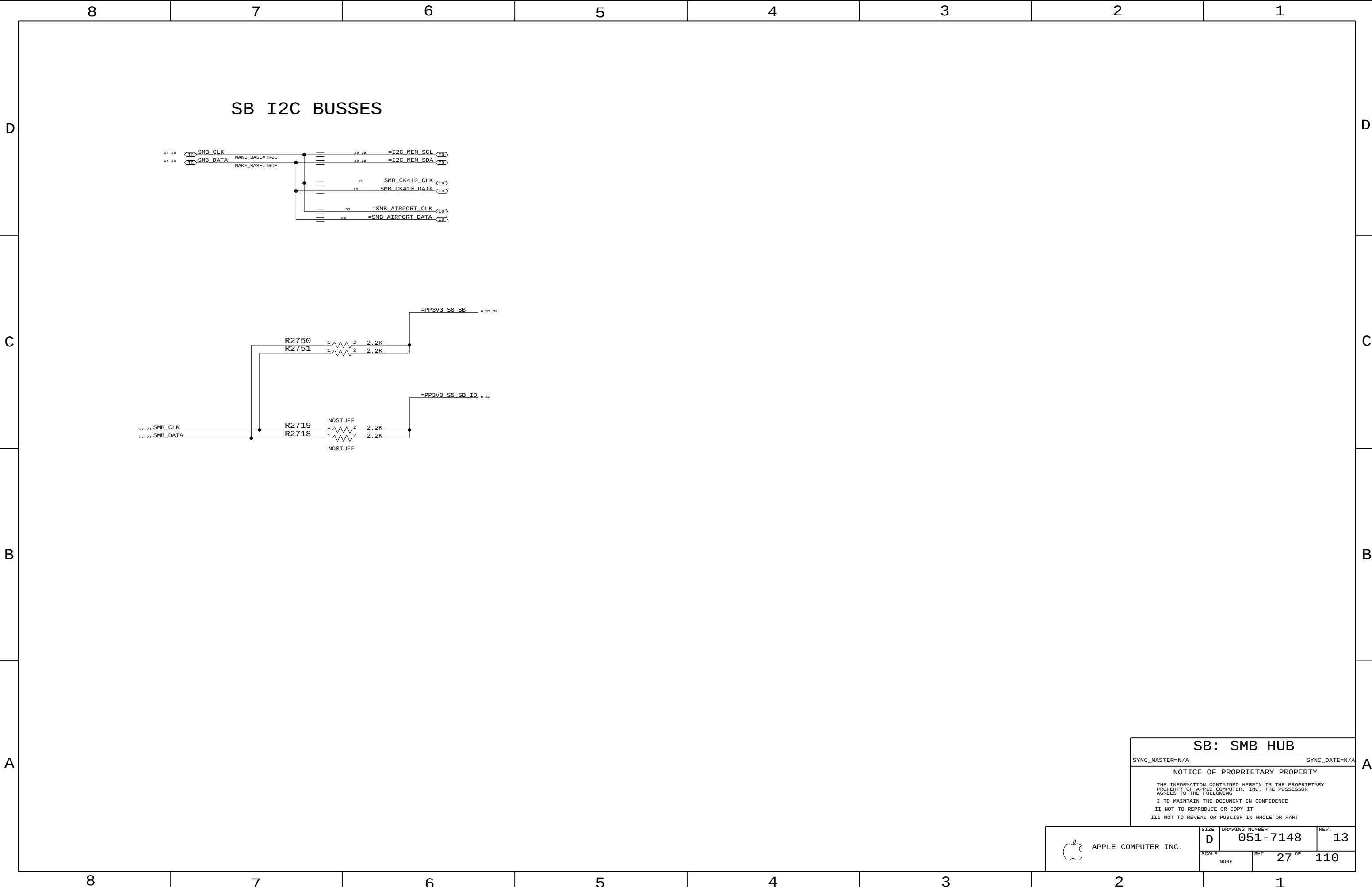
051-7148

REV.

13

SHT

26 OF 110



SB: SMB HUB

SYNC_MASTER=N/A

SYNC_DATE=N/A

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SIZE

D

DRAWING NUMBER

051-7148

REV.

13

SCALE

NONE

SHT

27

OF

110

Power aliases required by this page:

- =PP1V18_S3_MEM
- =PPSPD_S0_MEM (2.5V - 3.3V)

Signal aliases required by this page:

- =I2C_MEM_SCL
- =I2C_MEM_SDA

BOM options provided by this page:

(NONE)

29 28 26 5 PP1V8_S3 MEM

1 R2800
1K
1%
1/16W
NF-LF
402

2

VOLTAGE=0.9V
MIN_LINE_WIDTH=0.25 mm
MIN_NECK_WIDTH=0.25 mm

28 29

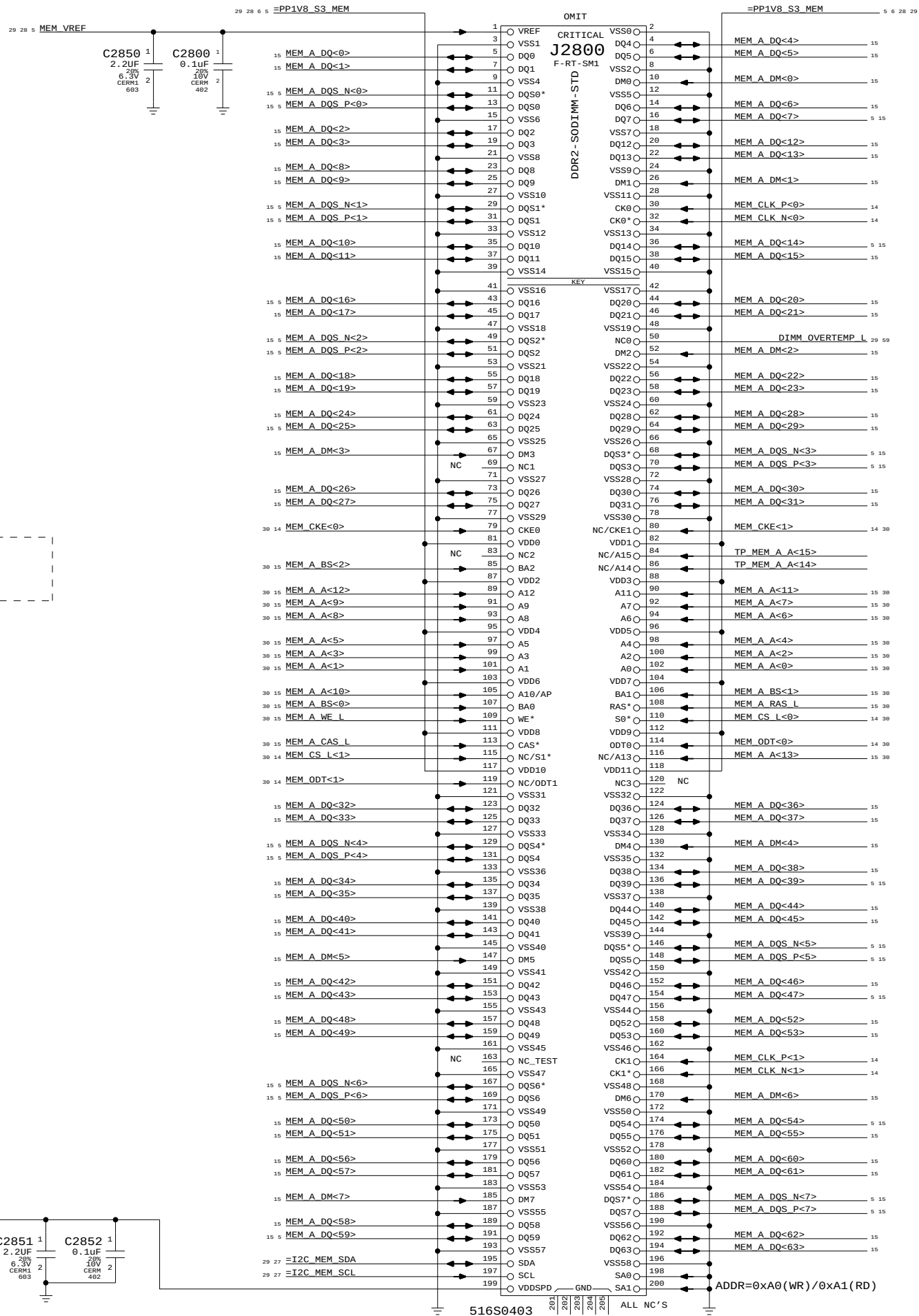
MEM_VREF

1 R2801
1K
1%
1/16W
NF-LF
402

2

GND

Yellow uses 10K divider and TLV2463
to drive MCH and DIMM connectors.
(See Capell Valley pg 47)



PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
516S0503	1	DDR2 SODIMM STD CONN	J2800	CRITICAL	

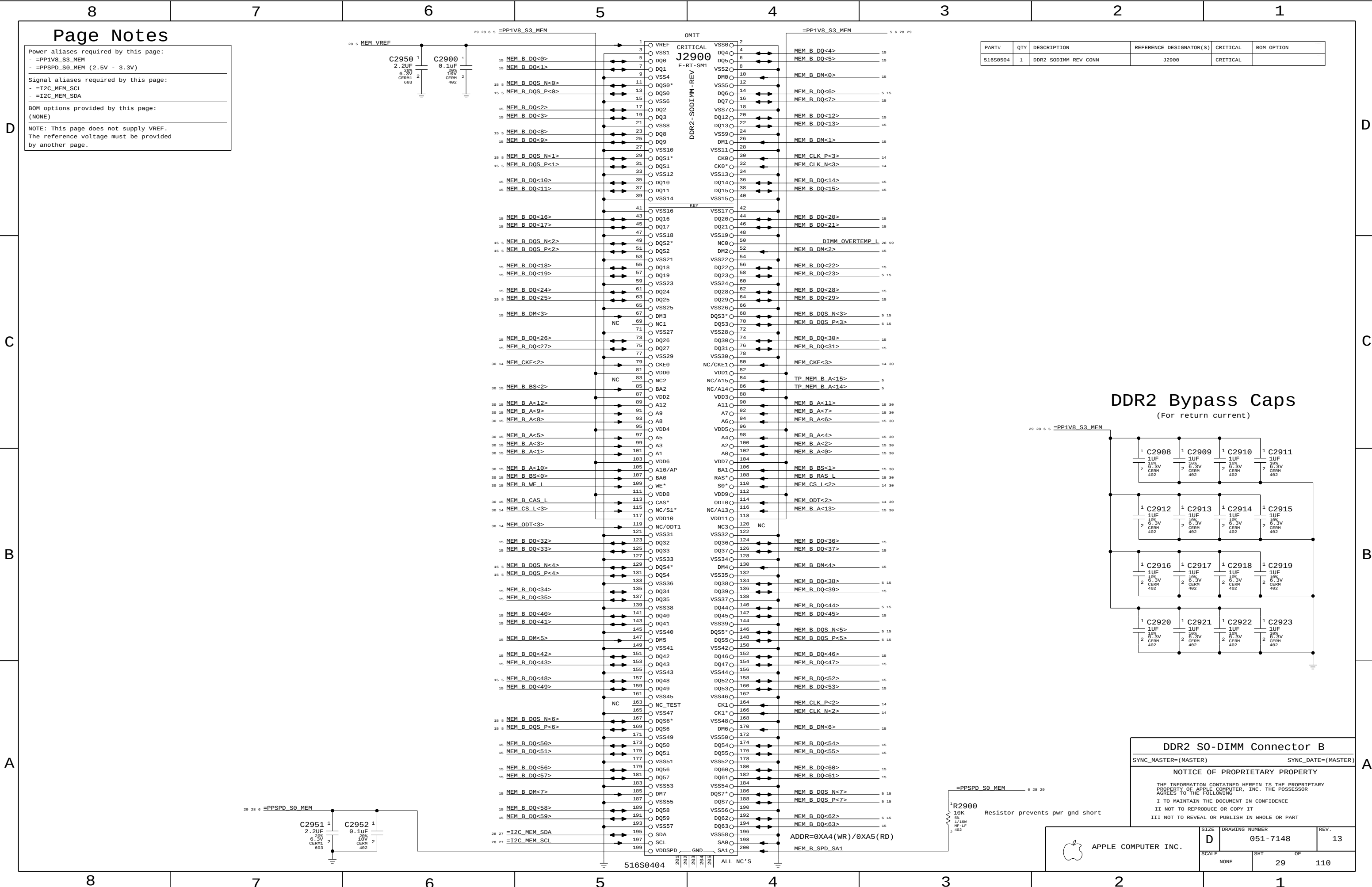
28 0 5 PP1V8_S3_MEM

Capacitor values and footprints:

- C2801: 10uF, 20%, 6.3V, X5R, 603
- C2802: 10uF, 20%, 6.3V, X5R, 603
- C2803: 10uF, 20%, 6.3V, X5R, 603
- C2804: 10uF, 20%, 6.3V, X5R, 603
- C2810: 0.1uF, 20%, 16V, C0E, 402
- C2811: 0.1uF, 20%, 16V, C0E, 402
- C2812: 0.1uF, 20%, 16V, C0E, 402
- C2813: 0.1uF, 20%, 16V, C0E, 402
- C2814: 0.1uF, 20%, 16V, C0E, 402
- C2815: 0.1uF, 20%, 16V, C0E, 402
- C2816: 0.1uF, 20%, 16V, C0E, 402
- C2817: 0.1uF, 20%, 16V, C0E, 402
- C2818: 0.1uF, 20%, 16V, C0E, 402
- C2819: 0.1uF, 20%, 16V, C0E, 402
- C2820: 0.1uF, 20%, 16V, C0E, 402
- C2821: 0.1uF, 20%, 16V, C0E, 402

DDR2 SO-DIMM Connector A	
SYNC_MASTER=(MASTER)	SYNC_DATE=(MASTER)
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 APPLE COMPUTER INC.	SIZE	DRAWING NUMBER		REV.
	D	051-7148		13
	SCALE	SHT	OF	
	NONE	28	110	



Page Notes

Power aliases required by this page:

- =PP1V8_S3_MEM
- =PPSPD_S0_MEM (2.5V - 3.3V)

Signal aliases required by this page:

- =I2C_MEM_SCL
- =I2C_MEM_SDA

BOM options provided by this page:

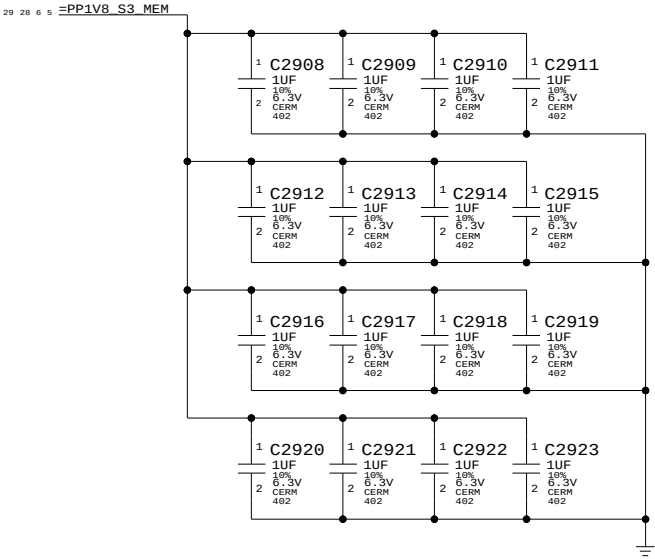
(NONE)

NOTE: This page does not supply VREF.
The reference voltage must be provided by another page.

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
516S0584	1	DDR2 SODIMM REV CONN	J2900	CRITICAL	

DDR2 Bypass Caps

(For return current)



DDR2 SO-DIMM Connector B

SYNC_MASTER=(MASTER)

SYNC_DATE=(MASTER)

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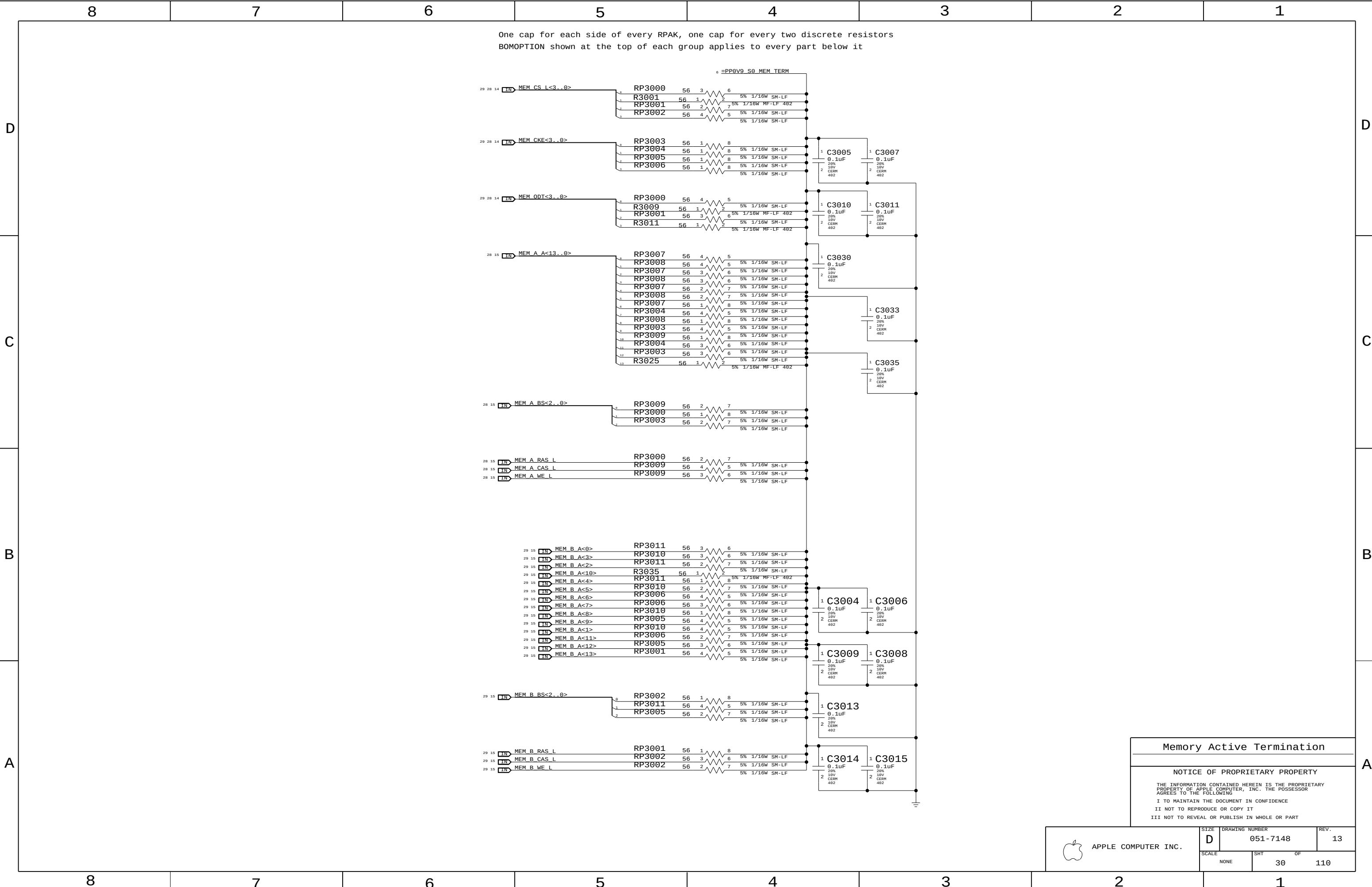
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	SCALE NONE	SHT 29	OF 110

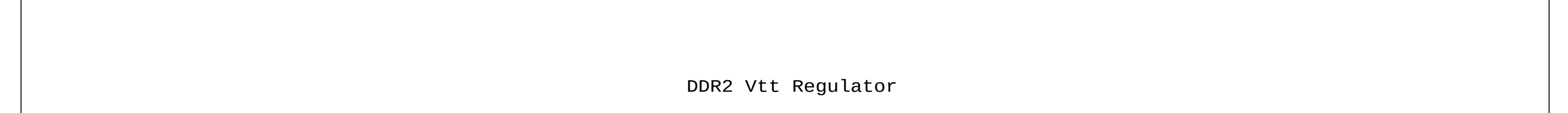


8	7	6	5	4	3	2	1
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- =PP5V_S0_MEMVTT
- =PP1V8_S0_MEMVTT
- =PP0V9_S0_MEMVTT_LD0

(NONE)

(NONE)



?Can 5V be S0 if 1V8 is S3?

3.3V

MEMVTT_EN_PU

R3100 1k

R3101 10k

C3100 10uF

MEMVTT

C C

SYNC_DATE=(MASTER

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SIZE	DRAWING NUMBER
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110

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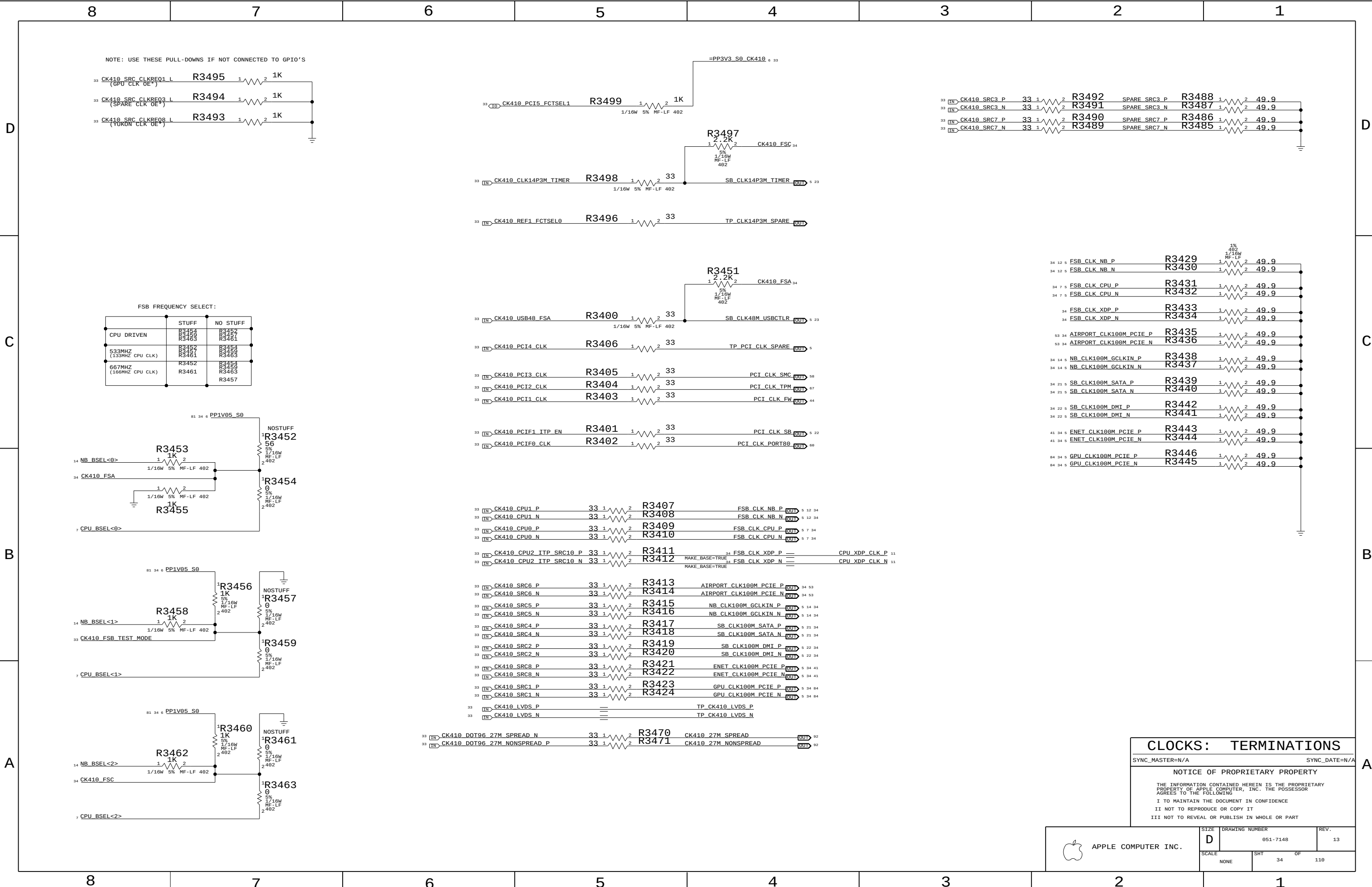
6

5

4

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2



CLOCKS: TERMINATIONS

SYNC_MASTER=N/A SYNC_DATE=N/A

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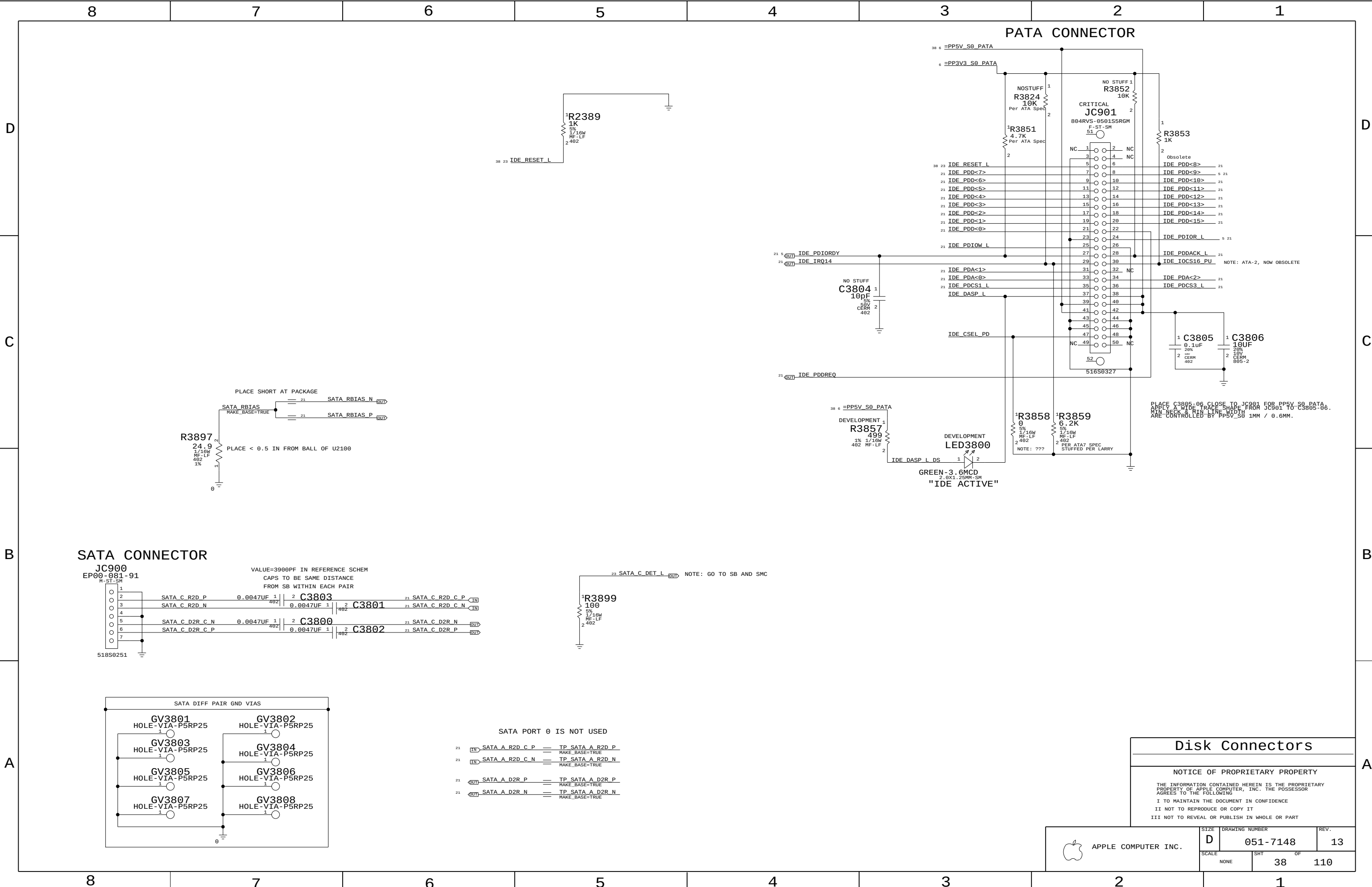
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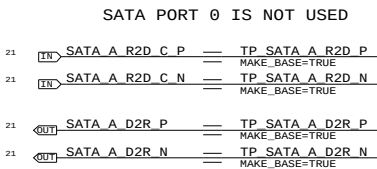
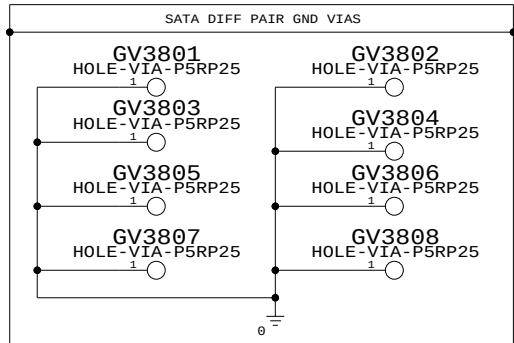
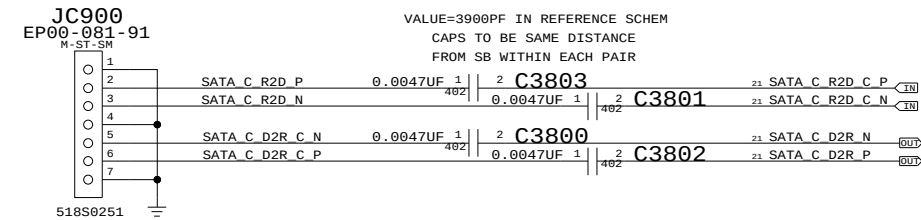
APPLE COMPUTER INC.

SIZE D DRAWING NUMBER 051-7148 REV. 13

SCALE NONE SHT 34 OF 110



SATA CONNECTOR

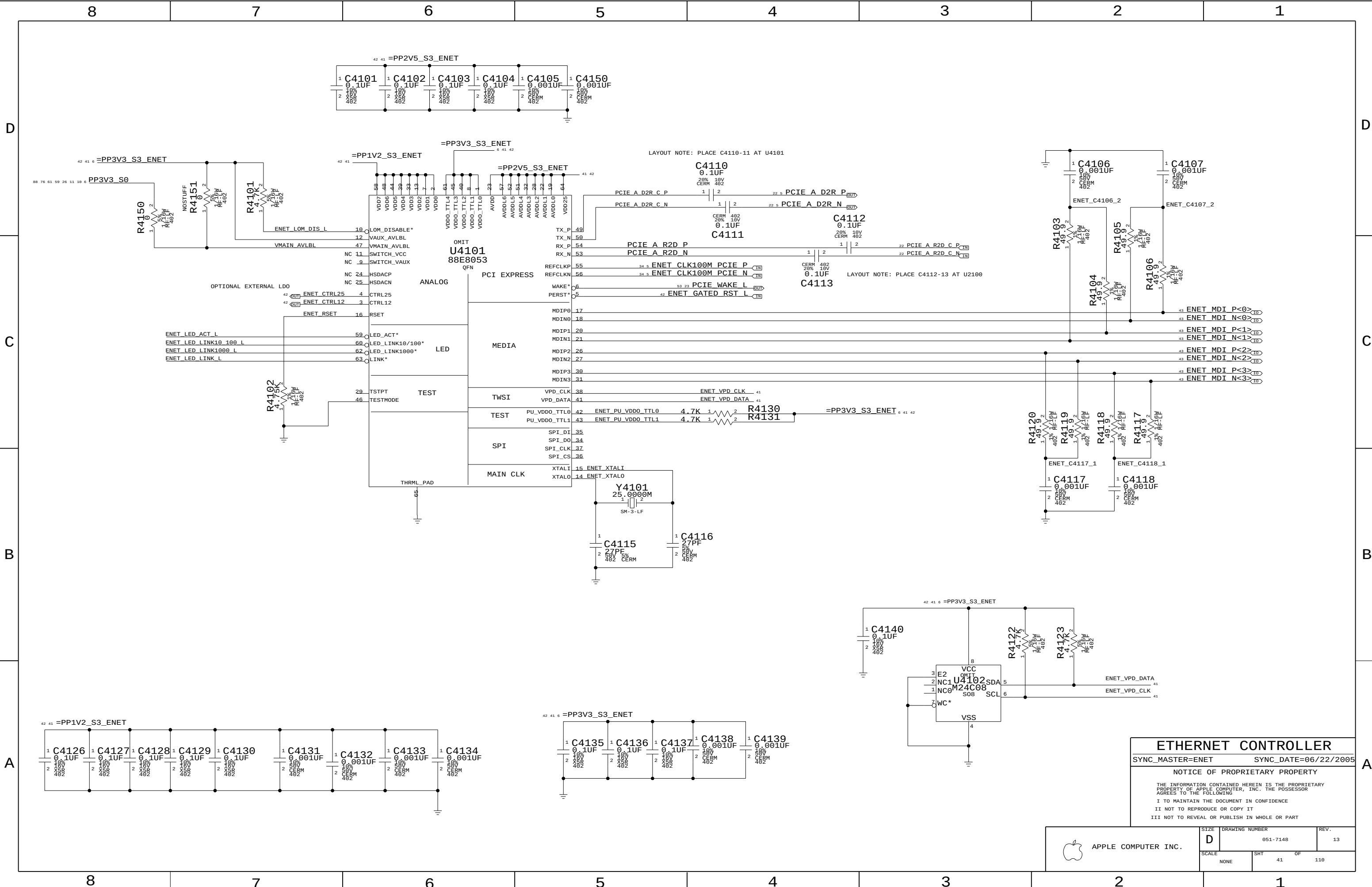


Disk Connectors

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	SCALE NONE	SHT 38	OF 110



ETHERNET CONTROLLER

SYNC_MASTER=ENET SYNC_DATE=06/22/2005

NOTICE OF PROPRIETARY PROPERTY

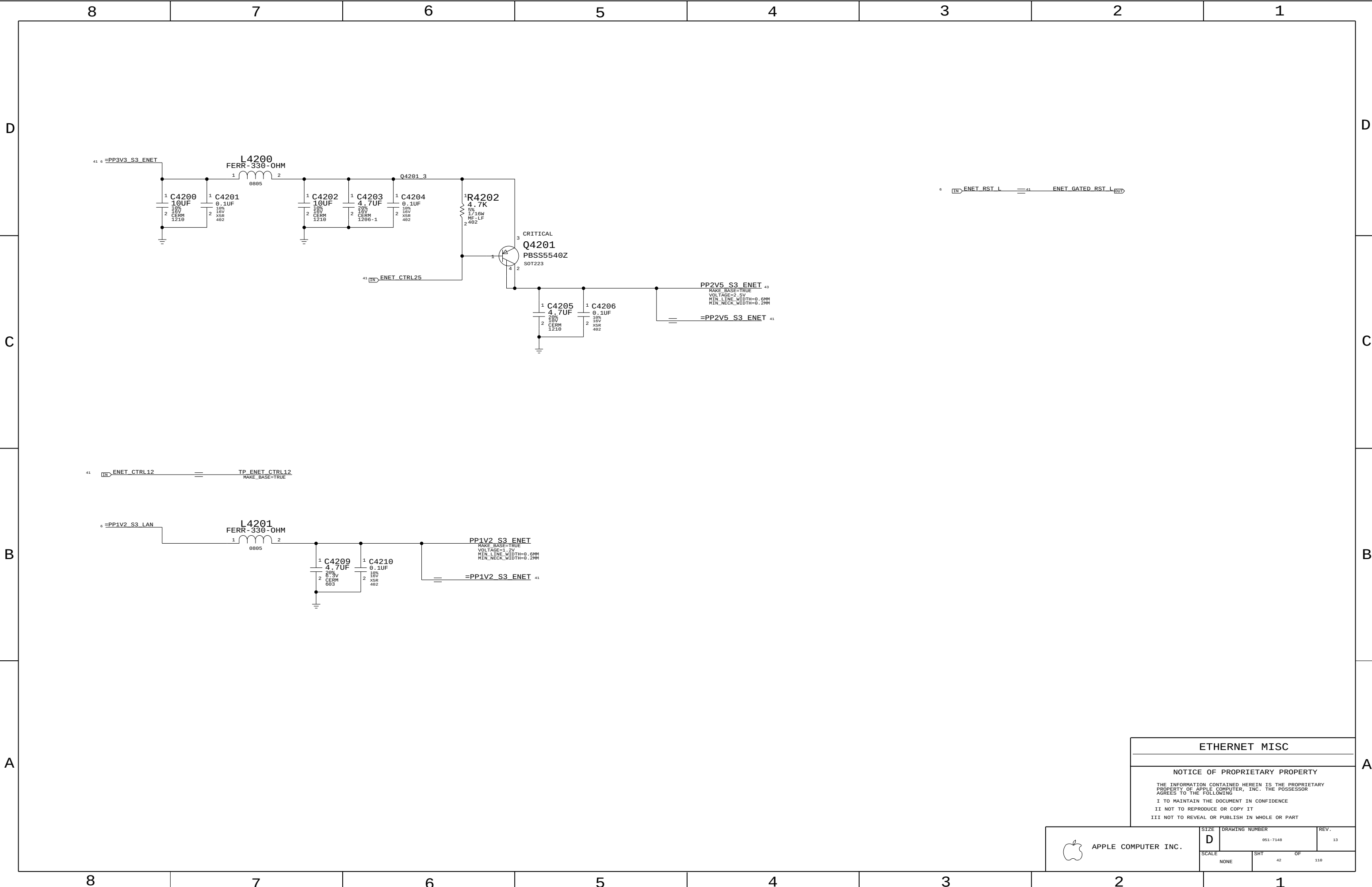
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	D	051-7148	13
SCALE	NONE	SHT	OF
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ETHERNET MISC

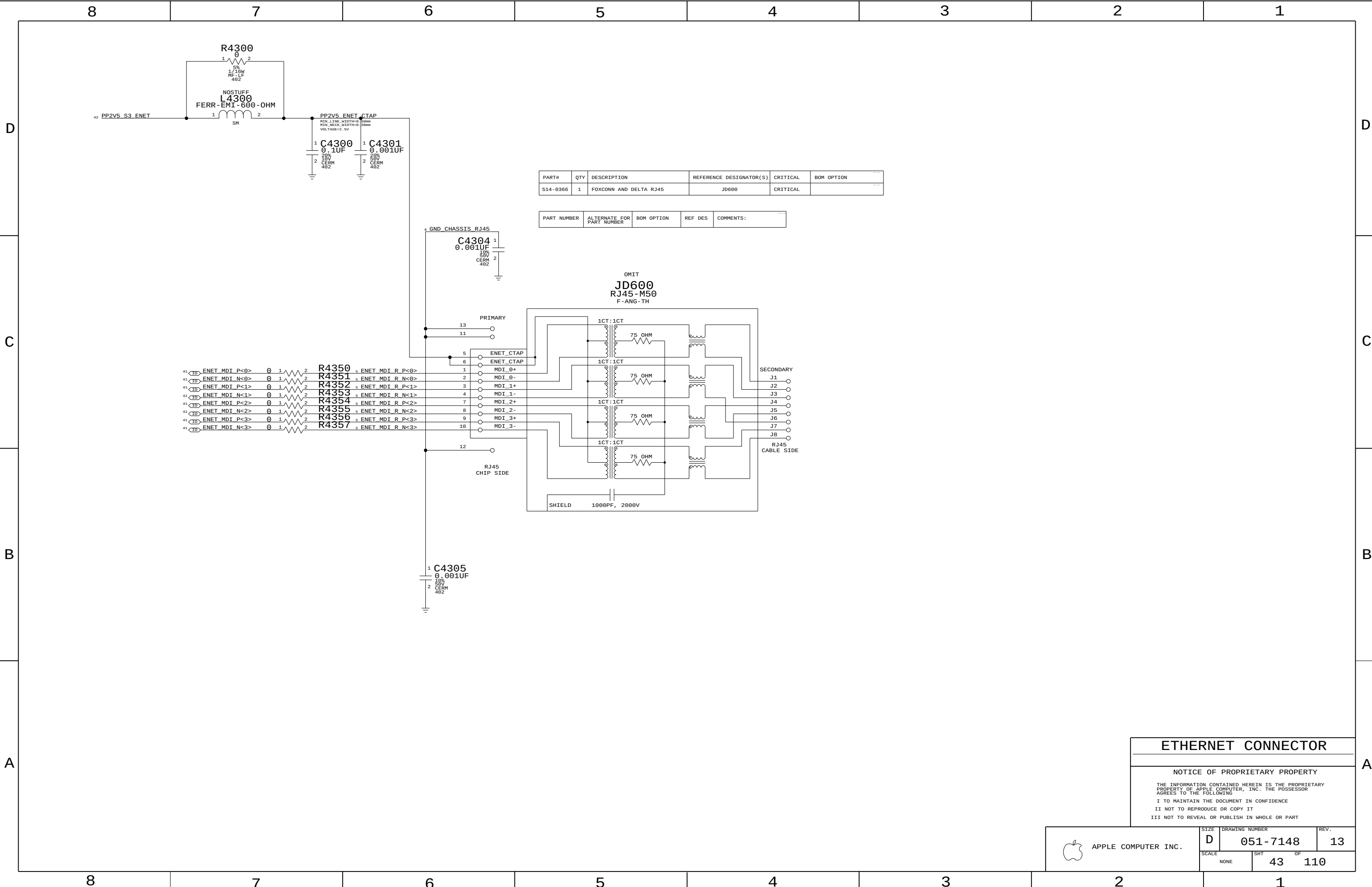
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SIZE	DRAWING NUMBER	REV.
D	001-7148	13
SCALE	SHT	OF
NONE	42	110



PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
514-0366	1	FOXCONN AND DELTA RJ45	JD600	CRITICAL	

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:

ETHERNET CONNECTOR

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APPLE COMPUTER INC.

SIZE

D

DRAWING NUMBER

051-7148

REV.

13

SCALE

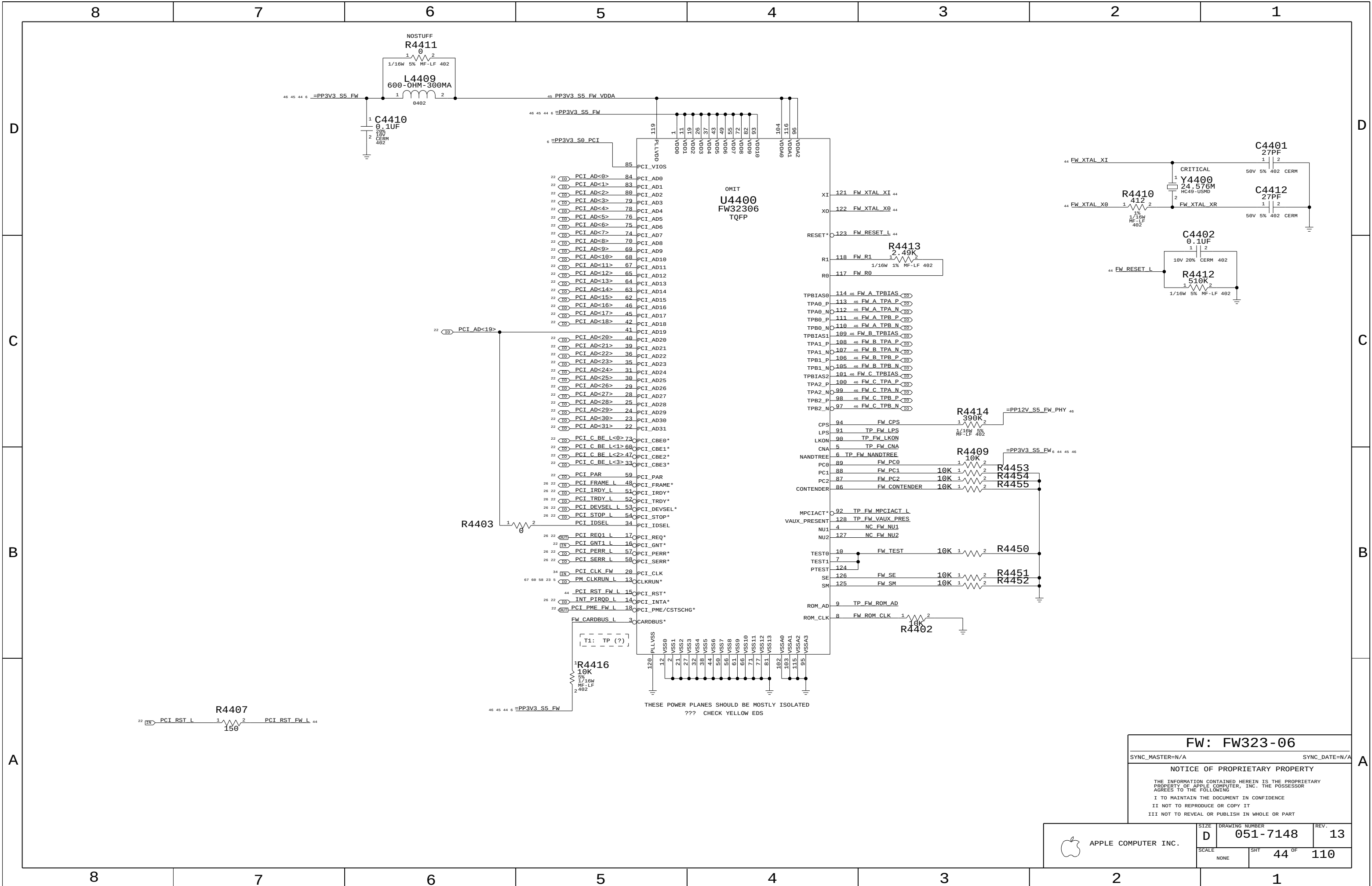
NONE

SHT

43

OF

110



FW: FW323-06

SYNC_MASTER=N/A

SYNC_DATE=N/A

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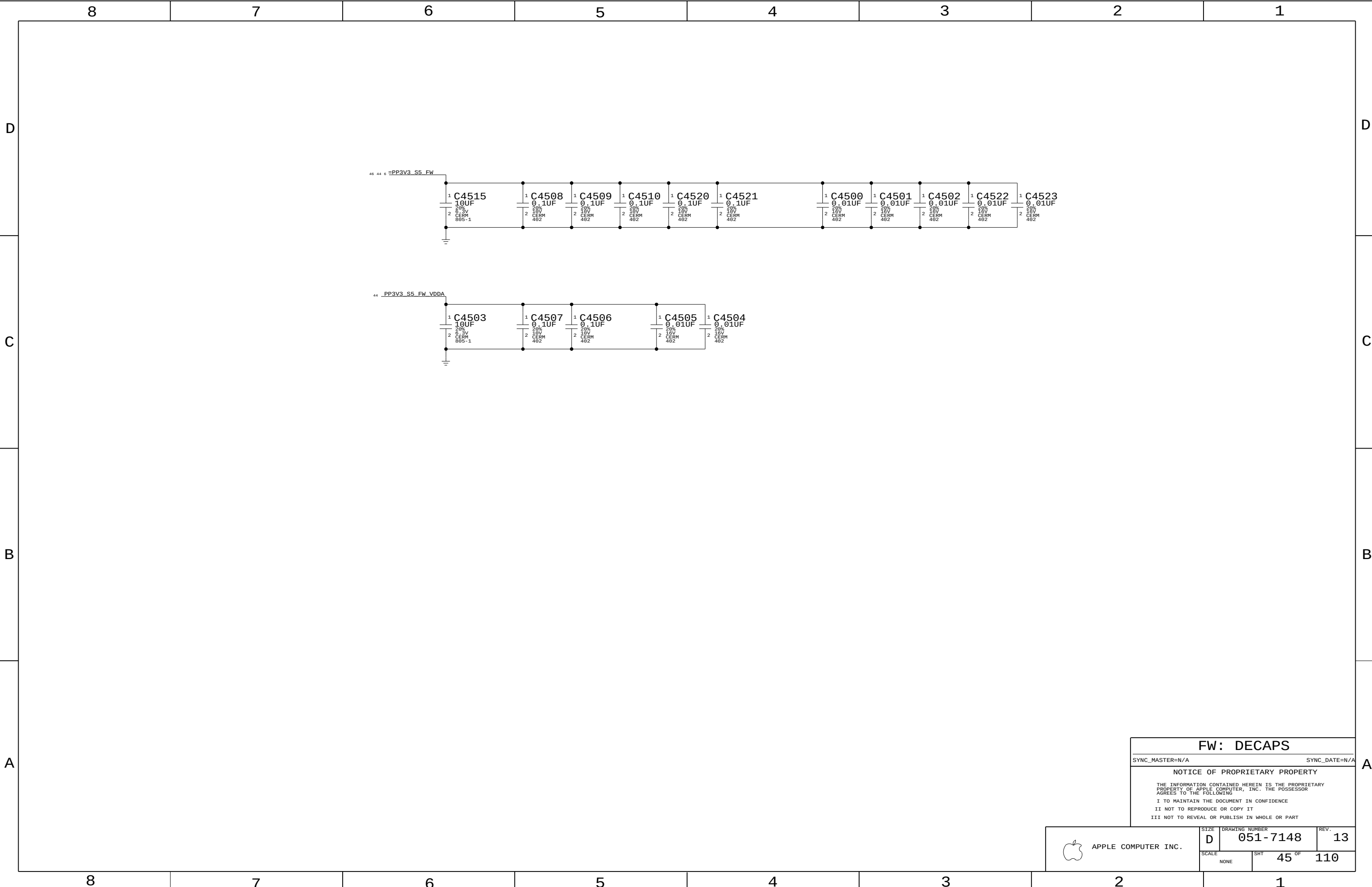
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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-7148	13
SCALE		SHT	44 OF 110
NONE			



FW: DECAPS

SYNC_MASTER=N/A

SYNC_DATE=N/A

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APPLE COMPUTER INC.

SIZE

D

DRAWING NUMBER

051-7148

REV.

13

SCALE

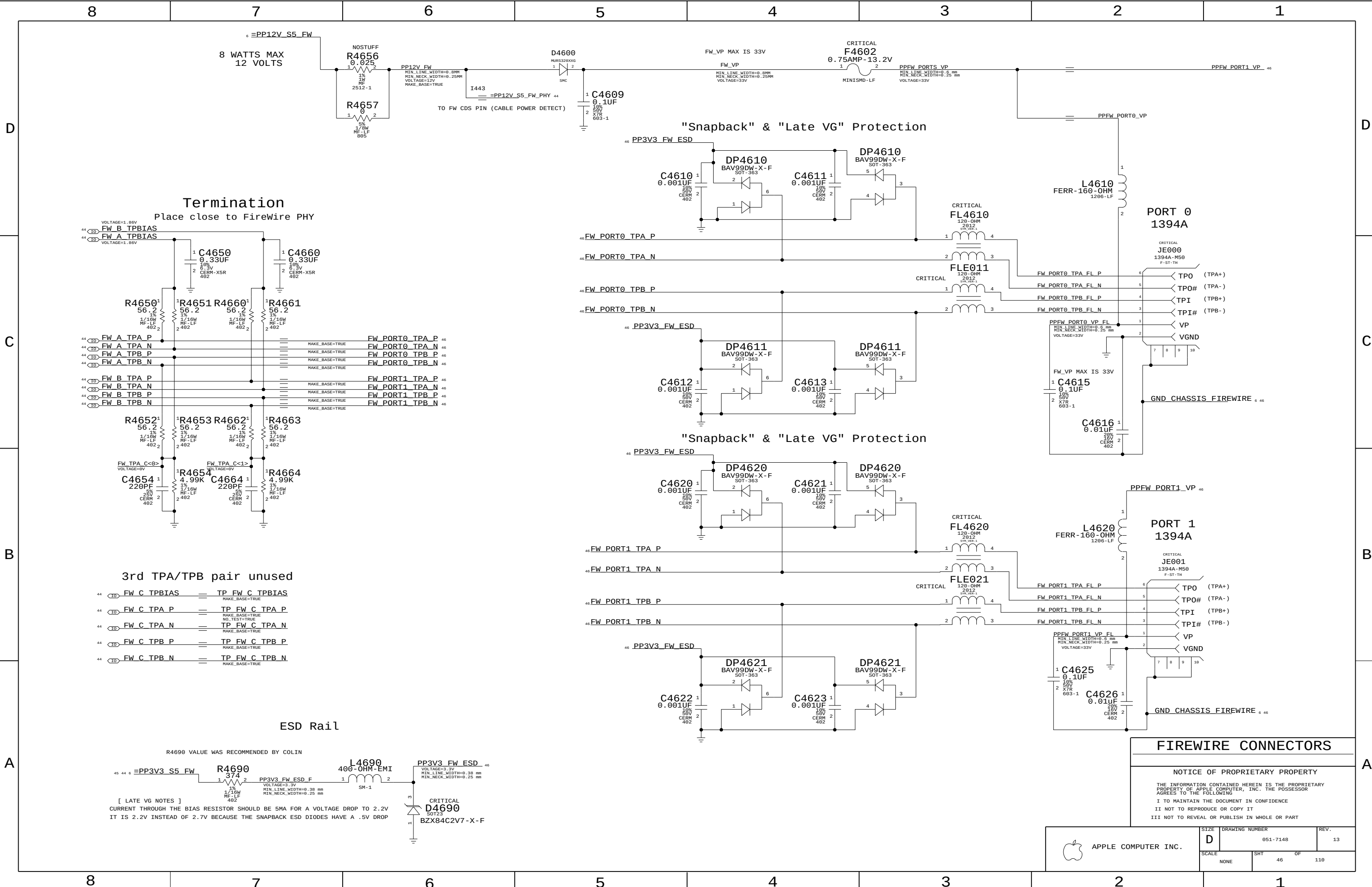
NONE

SHT

45

OF

110



Termination
Place close to FireWire PHY

"Snapback" & "Late VG" Protection

"Snapback" & "Late VG" Protection

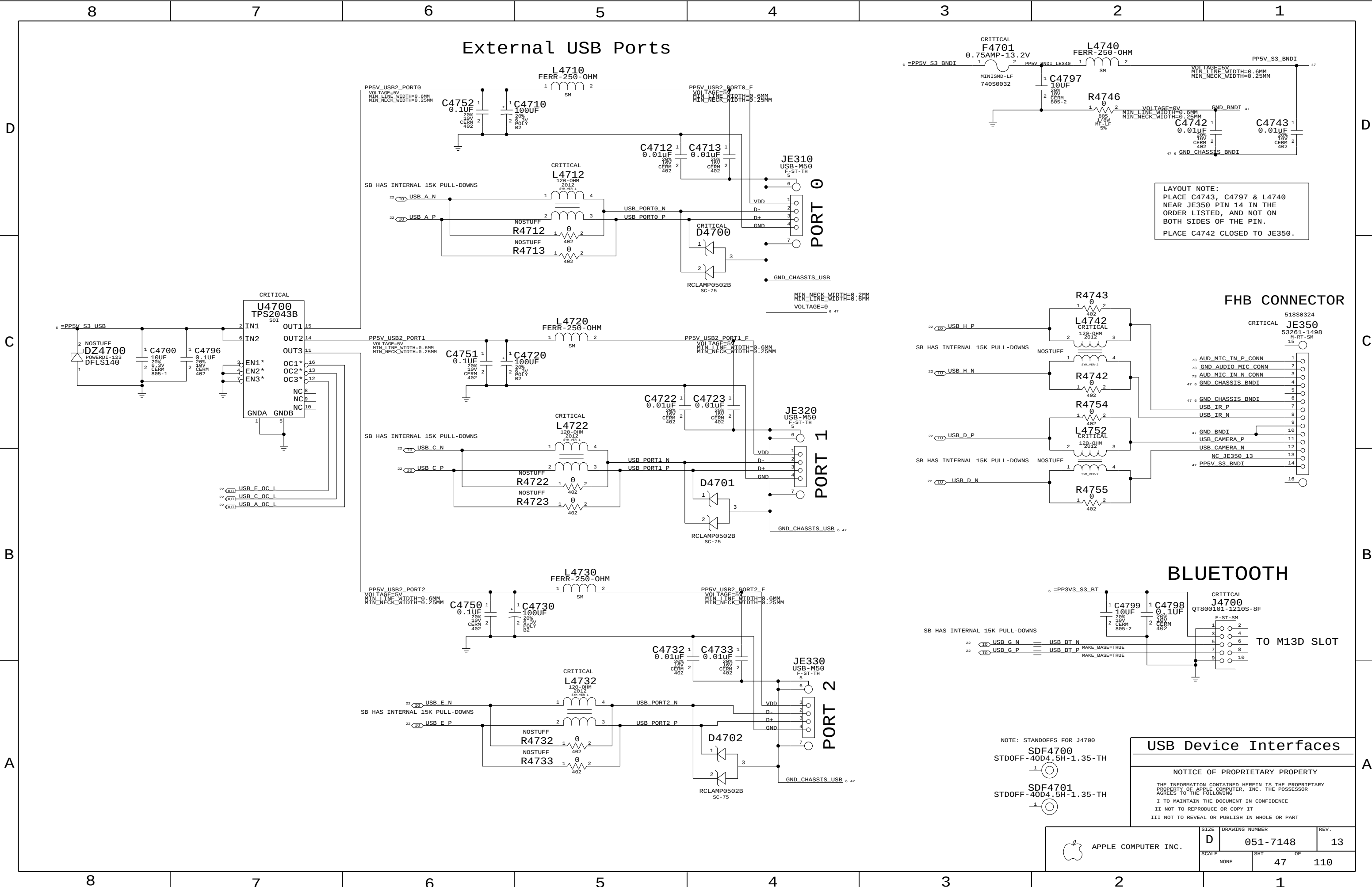
3rd TPA/TPB pair unused

ESD Rail

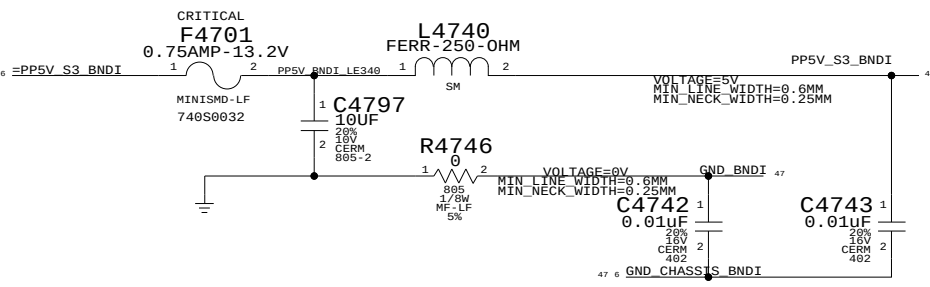
FIREWIRE CONNECTORS

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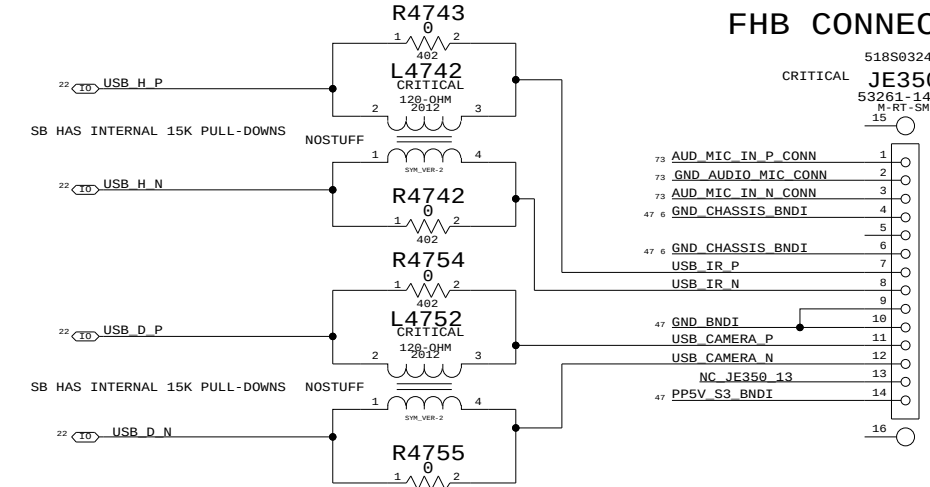
APPLE COMPUTER INC.	SIZE D	DRAWING NUMBER 051-7148	REV. 13
	SCALE NONE	SHT 46	OF 110



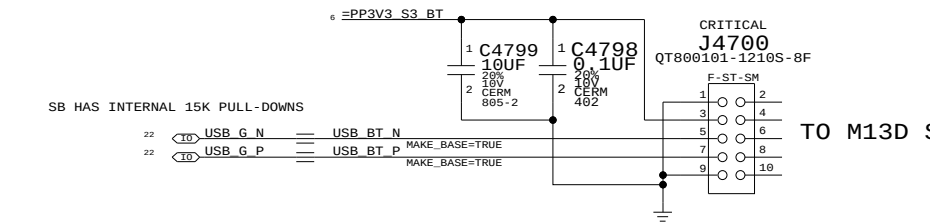
External USB Ports



LAYOUT NOTE:
PLACE C4743, C4797 & L4740
NEAR JE350 PIN 14 IN THE
ORDER LISTED, AND NOT ON
BOTH SIDES OF THE PIN.
PLACE C4742 CLOSED TO JE350.



BLUETOOTH

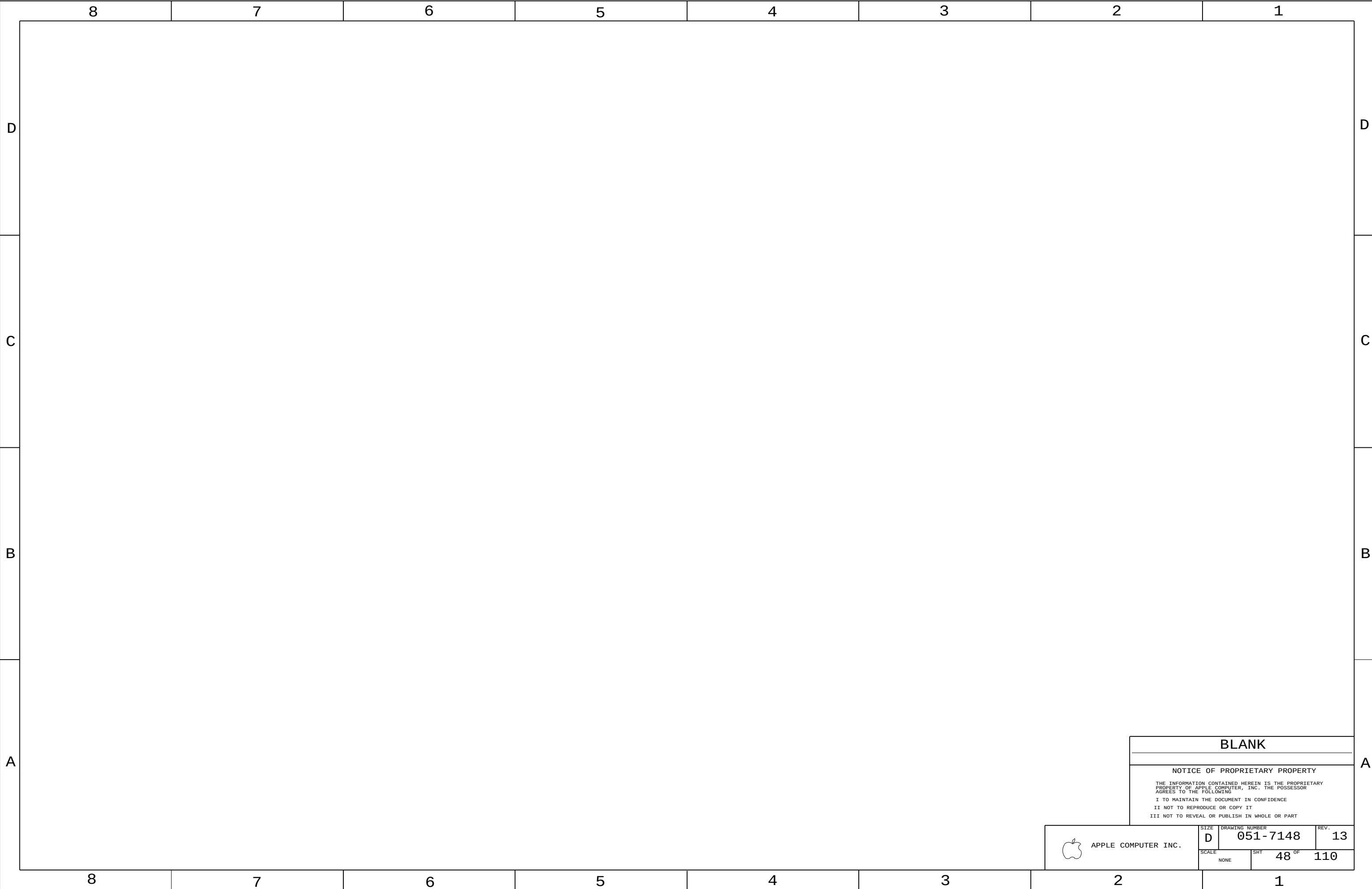


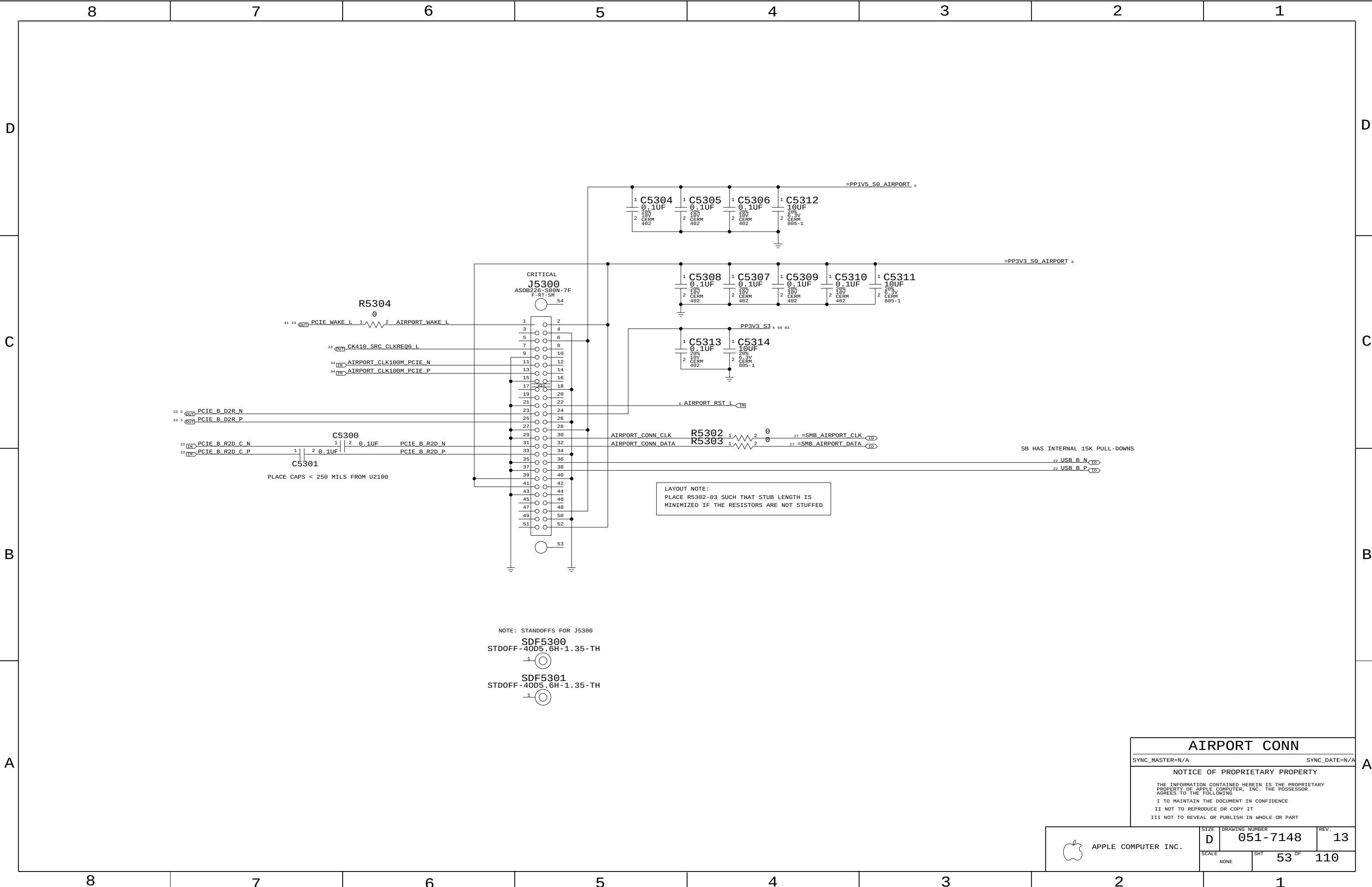
NOTE: STANDOFFS FOR J4700
SDF4700
STDOFF-40D4.5H-1.35-TH
SDF4701
STDOFF-40D4.5H-1.35-TH

USB Device Interfaces

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	SCALE NONE	SHT 47	OF 110





AIRPORT CONN

SYNC_MASTER=N/ASYNC_DATE=N/A

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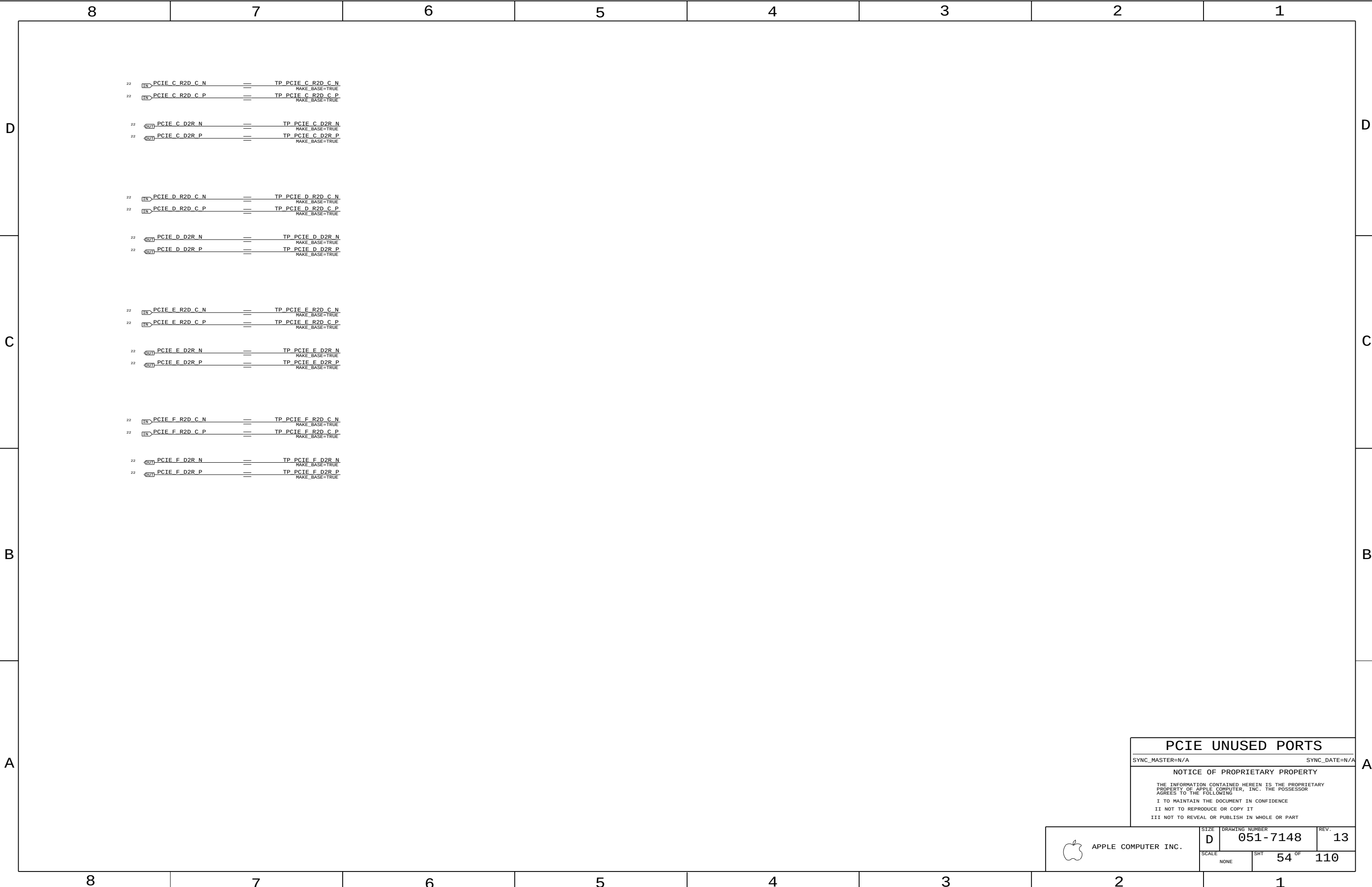
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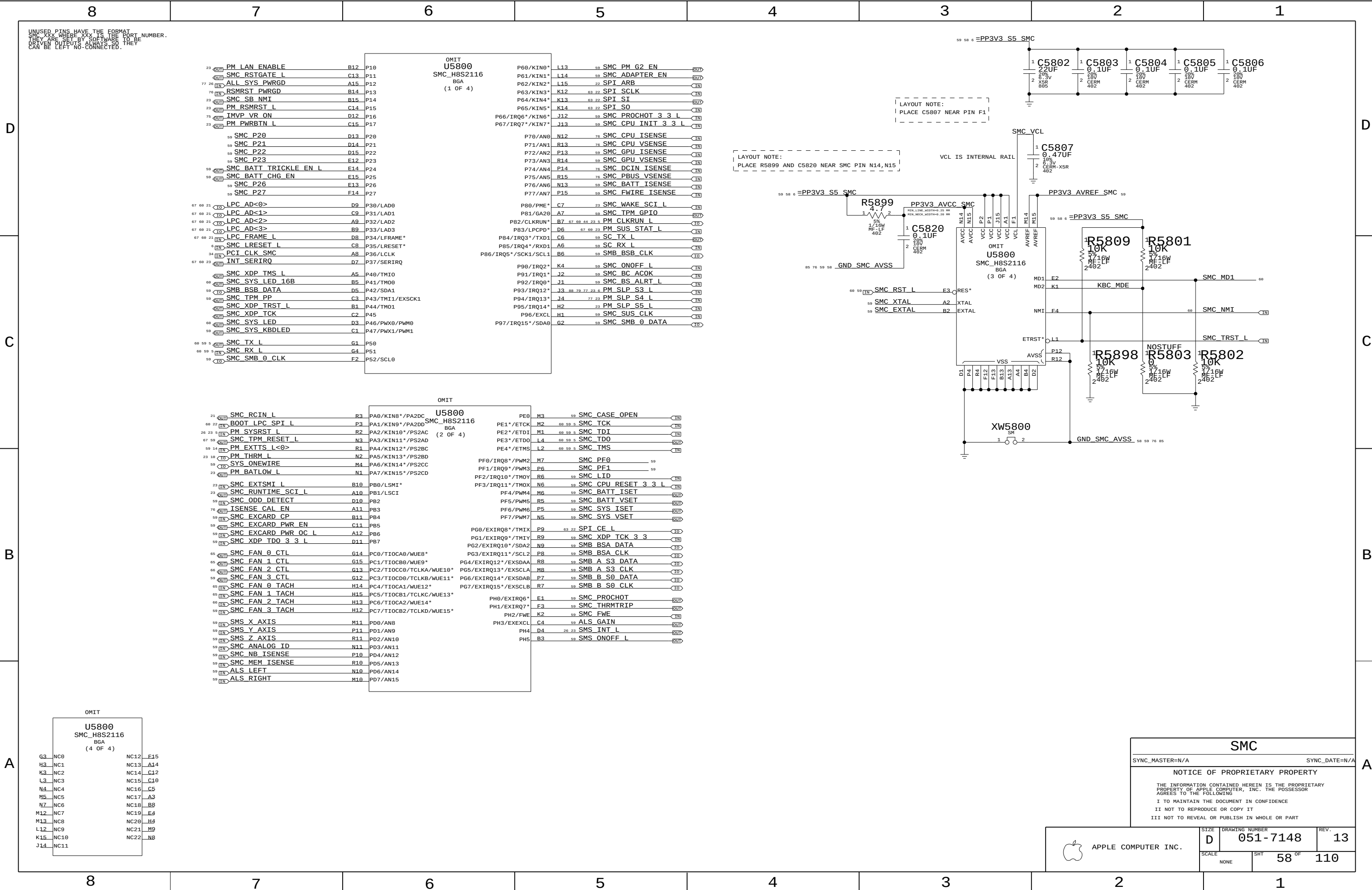
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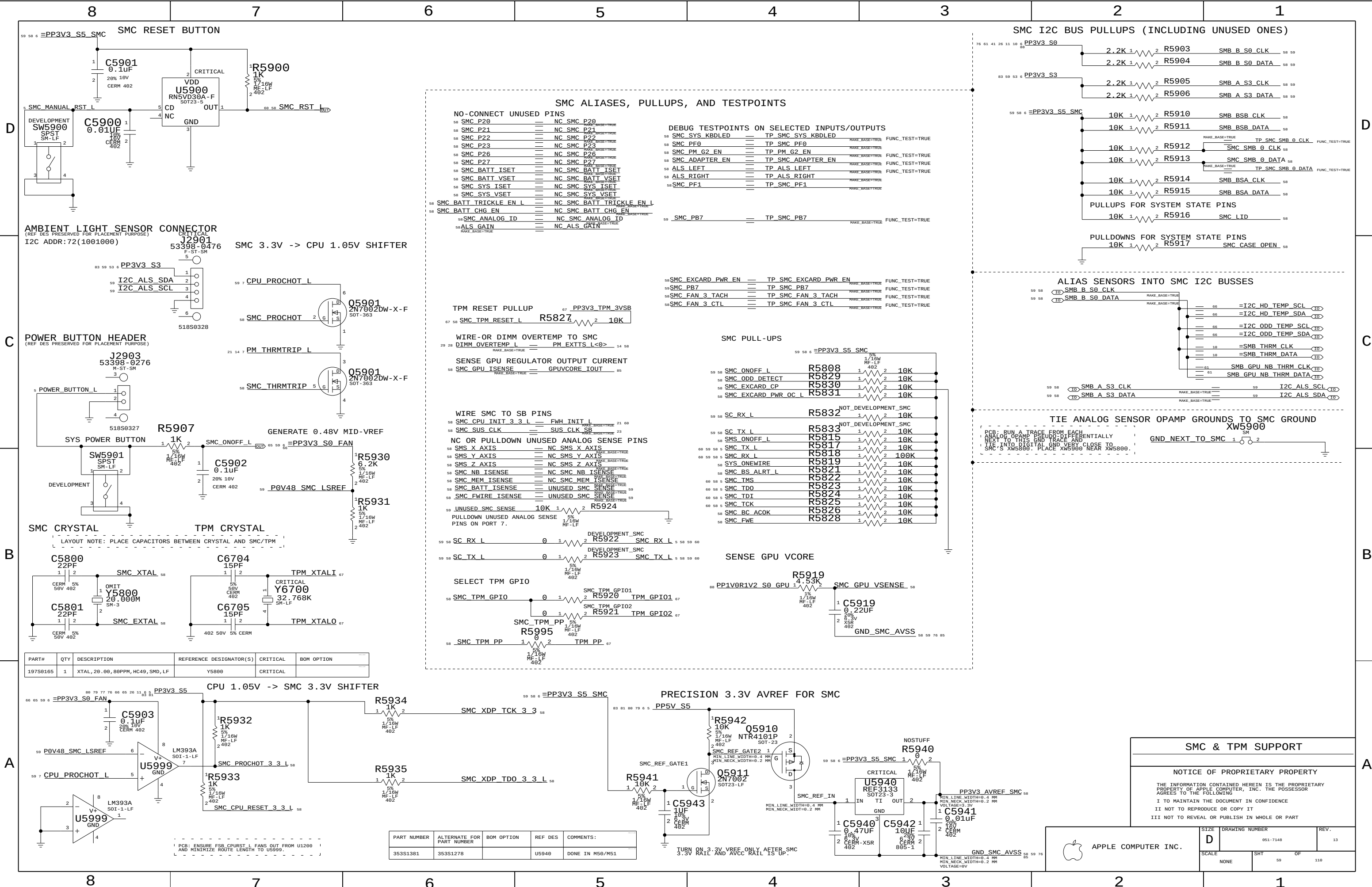
III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

APPLE COMPUTER INC.

SIZE D	DRAWING NUMBER 051-7148	REV. 13
SCALE NONE	SHT 53 OF	110







AMBIENT LIGHT SENSOR CONNECTOR
(REF DES RESERVED FOR PLACEMENT PURPOSE)
I2C ADDR:72(1001000)

POWER BUTTON HEADER
(REF DES RESERVED FOR PLACEMENT PURPOSE)

SMC CRYSTAL

TPM CRYSTAL

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
197S0165	1	XTAL, 20.00, 80PPM, HC49, SMD, LF	Y5800	CRITICAL	

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
353S1381	353S1278		U5940	DONE IN M50/M51

SMC & TPM SUPPORT

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SIZE D

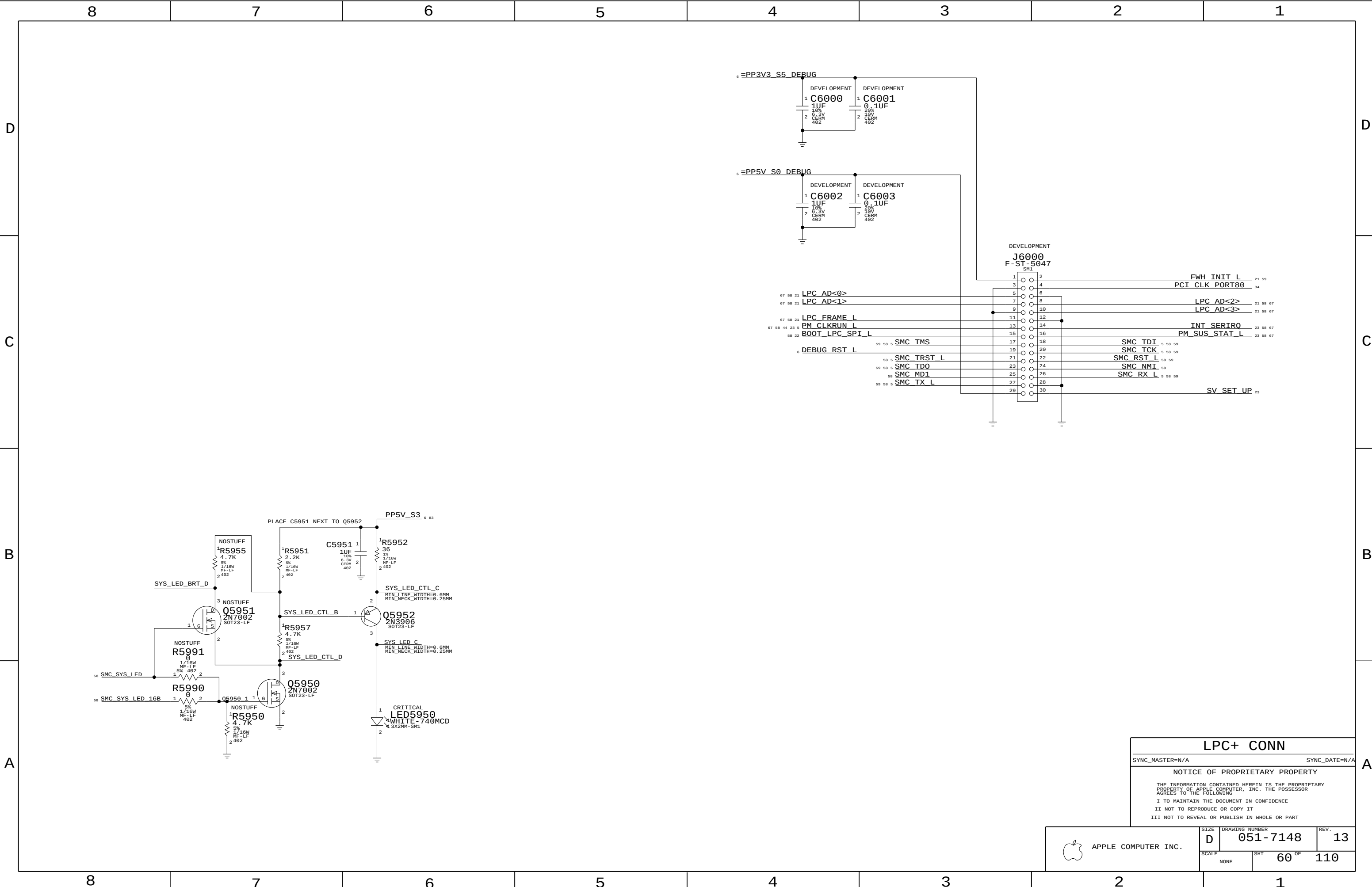
DRAWING NUMBER 001-7148

REV. 13

SCALE NONE

SHT 59

OF 110



LPC+ CONN

SYNC_MASTER=N/A

SYNC_DATE=N/A

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SIZE

D

DRAWING NUMBER

051-7148

REV.

13

SCALE

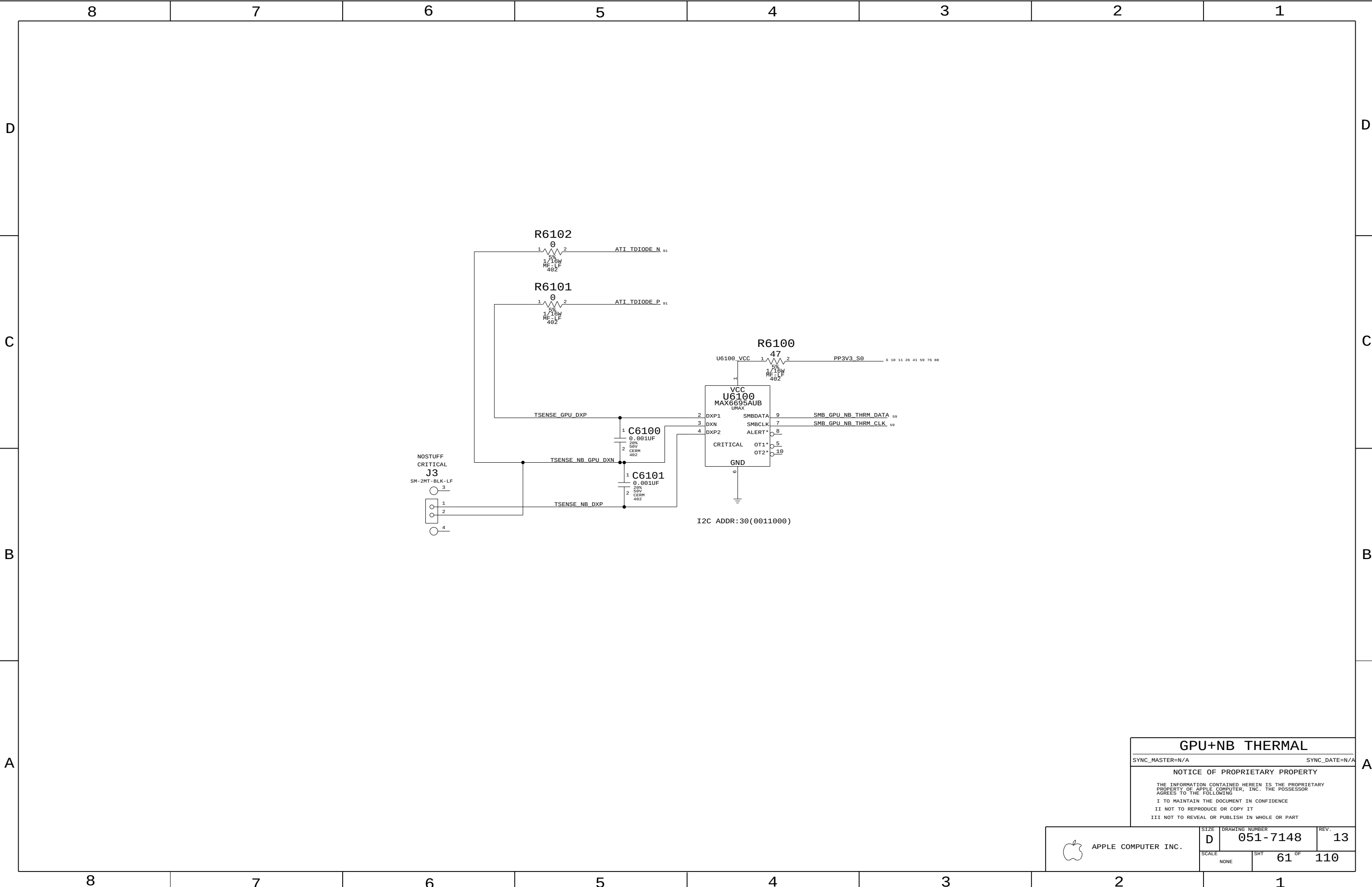
NONE

SHT

60

OF

110



GPU+NB THERMAL

SYNC_MASTER=N/A SYNC_DATE=N/A

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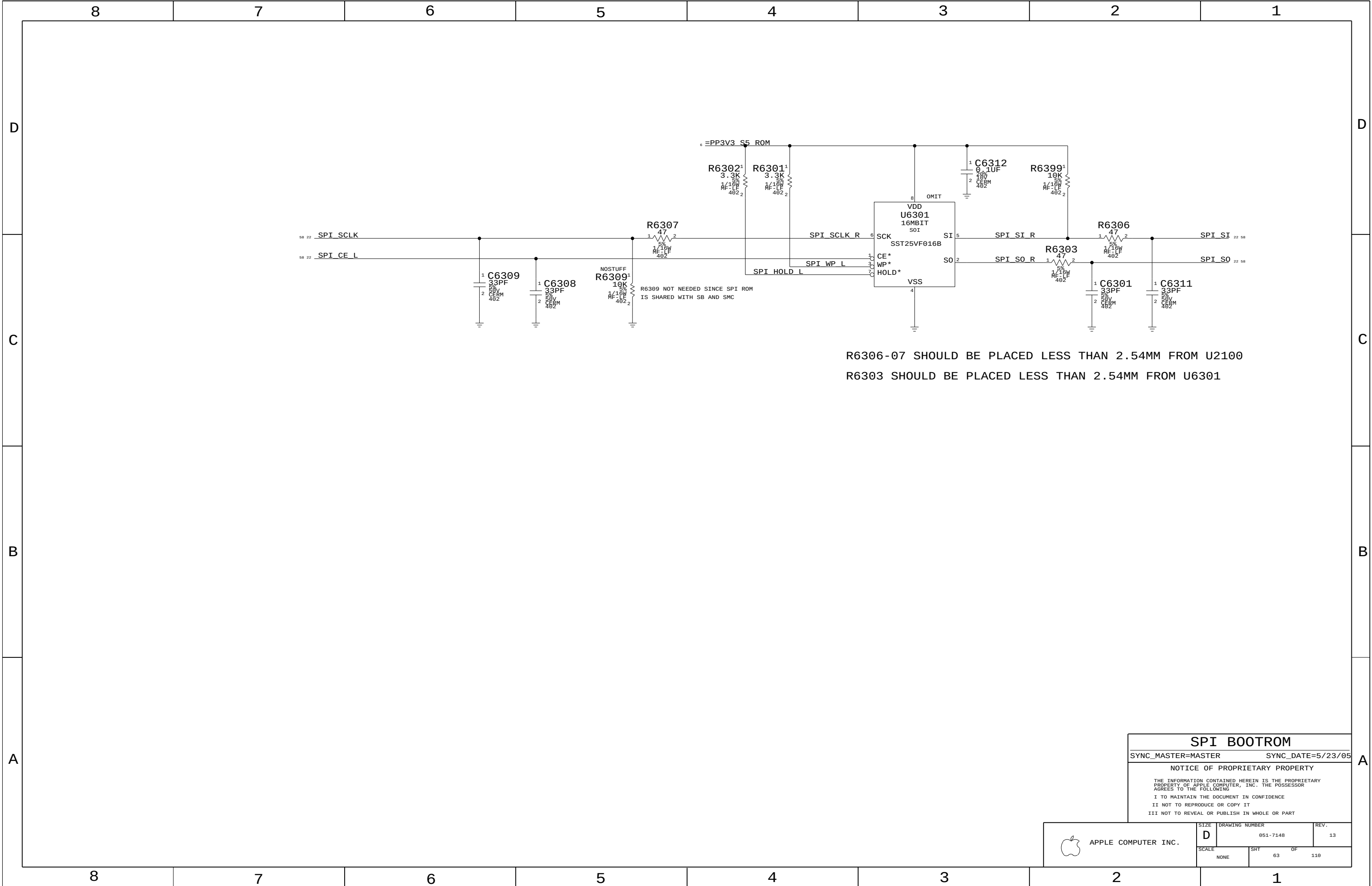
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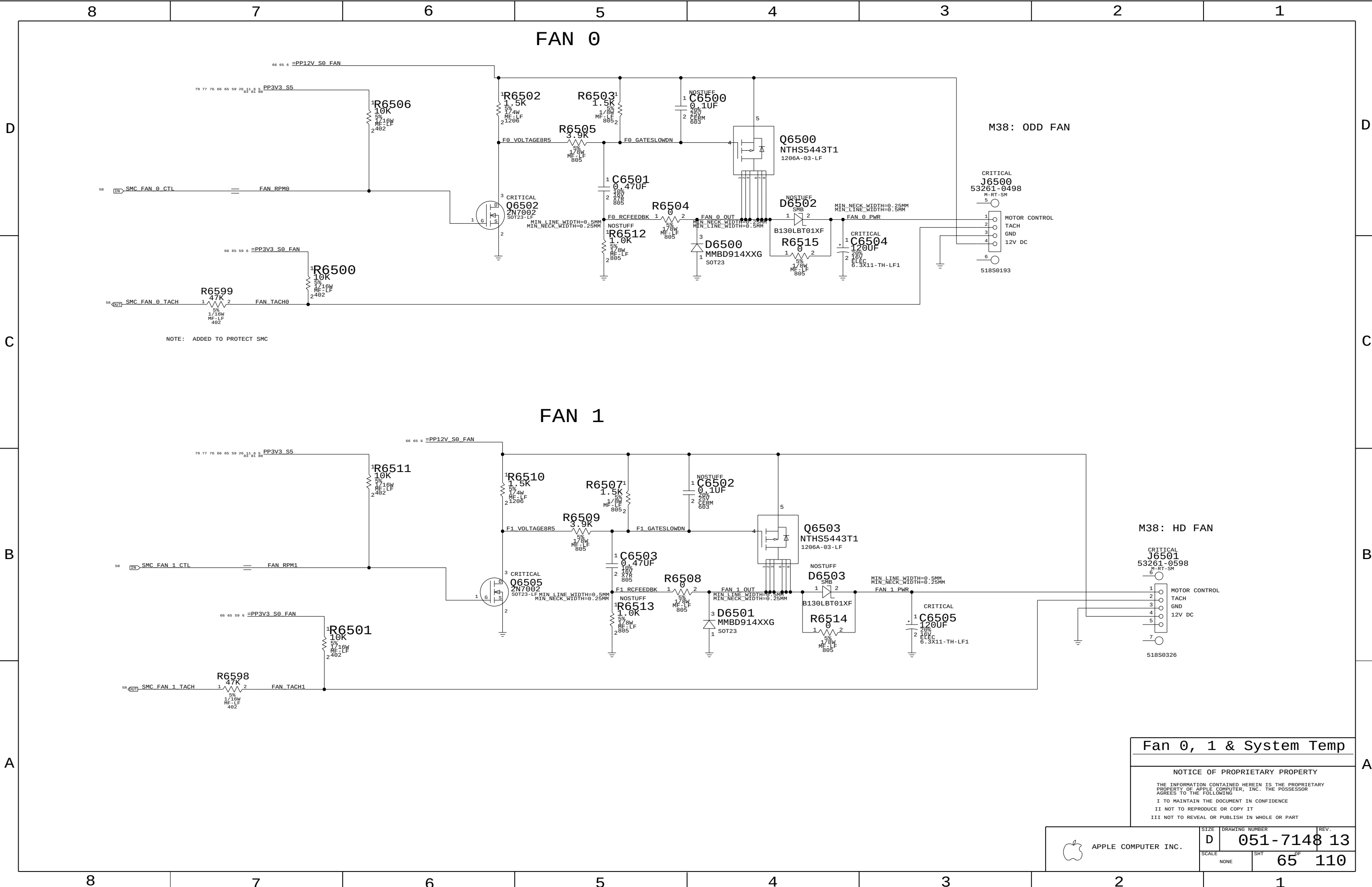
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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-7148	13
SCALE		SHT	61 OF 110
NONE			



SPI BOOTROM	
SYNC_MASTER=MASTER	SYNC_DATE=5/23/05
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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-7148	13
SCALE	NONE	SHT	63 OF 110



Fan 0, 1 & System Temp

NOTICE OF PROPRIETARY PROPERTY

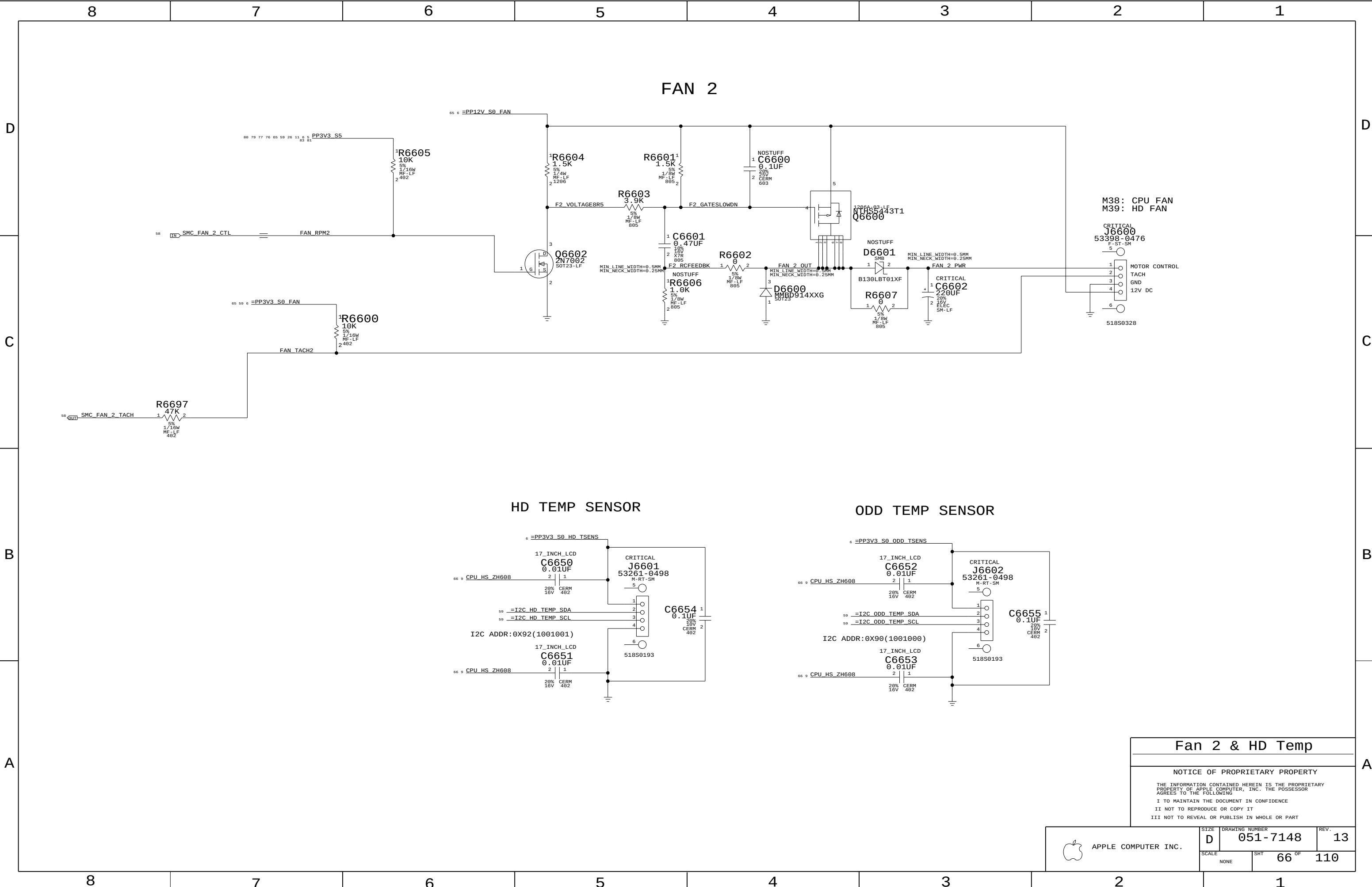
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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-7148	13
	SCALE	SHT	OF
	NONE	65	110



Fan 2 & HD Temp

NOTICE OF PROPRIETARY PROPERTY

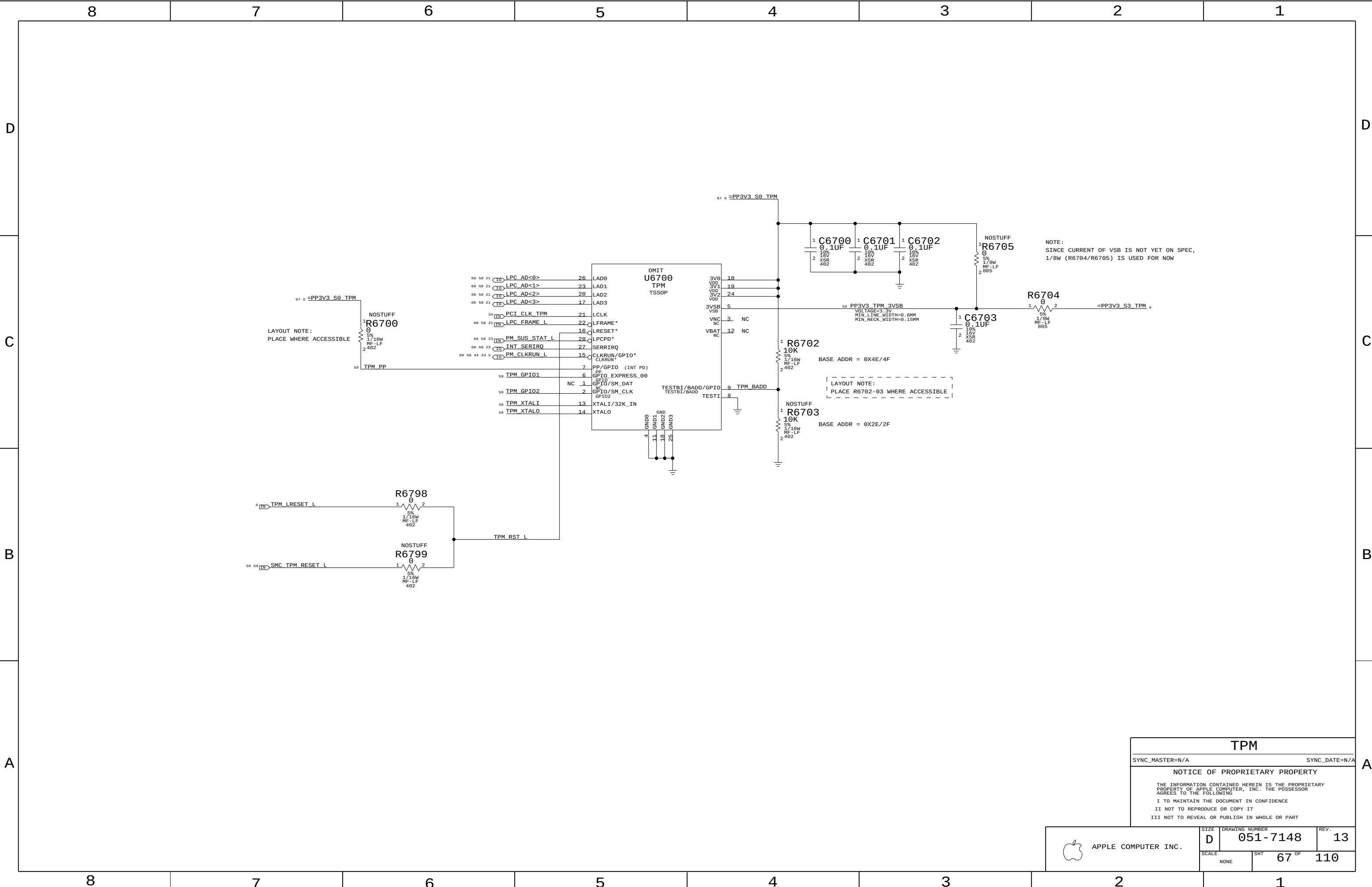
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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-7148	13
SCALE		SHT	66 OF 110
NONE			



TPM

SYNC_MASTER=N/A

SYNC_DATE=N/A

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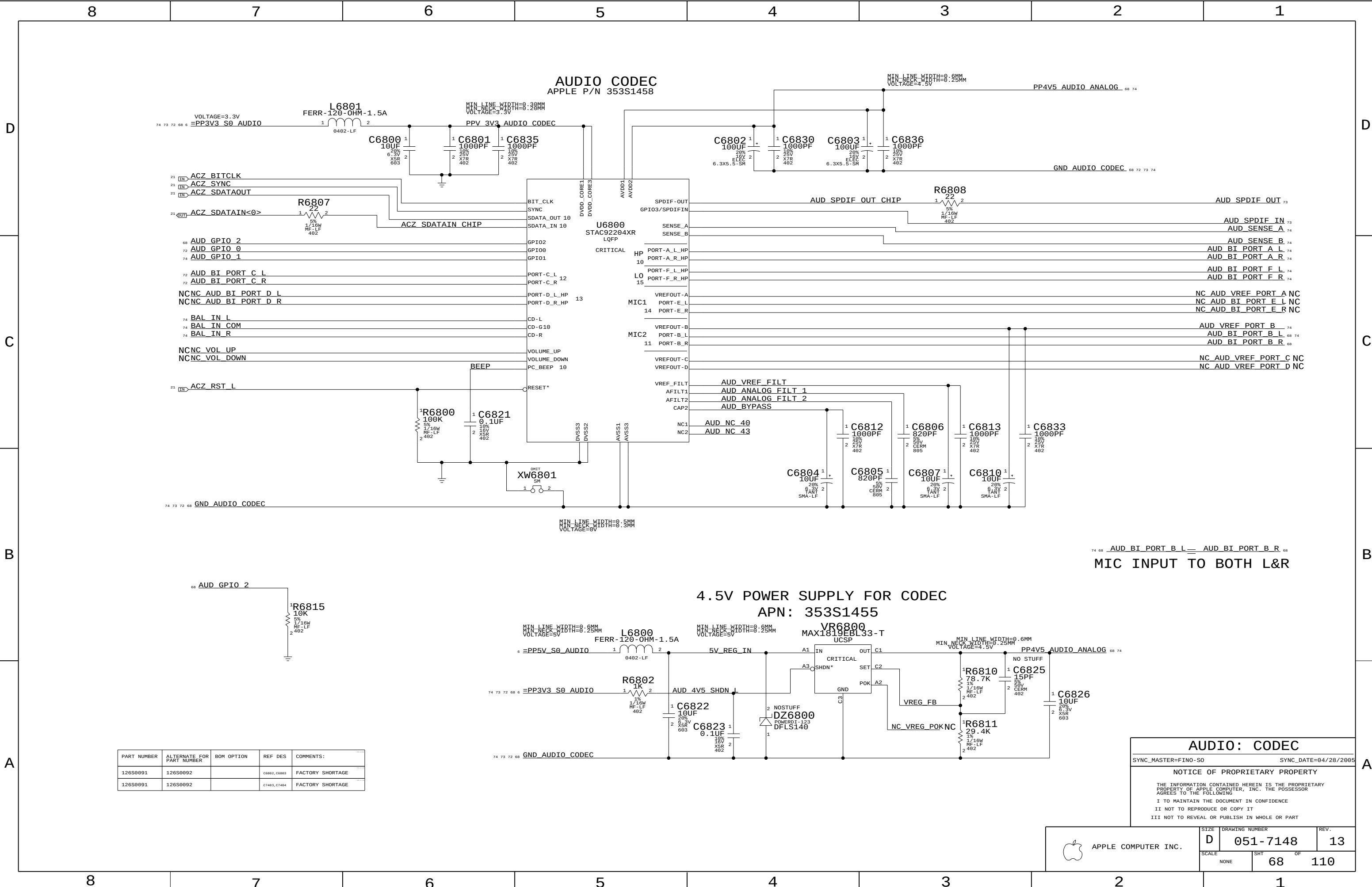
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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-7148	13
SCALE		SHT	67 OF 110
NONE			



PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
126S0091	126S0092		C6802, C6803	FACTORY SHORTAGE
126S0091	126S0092		C7403, C7404	FACTORY SHORTAGE

AUDIO: CODEC

SYNC_MASTER=FINO-S0

SYNC_DATE=04/28/2005

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APPLE COMPUTER INC.

SIZE

D

DRAWING NUMBER

051-7148

REV.

13

SCALE

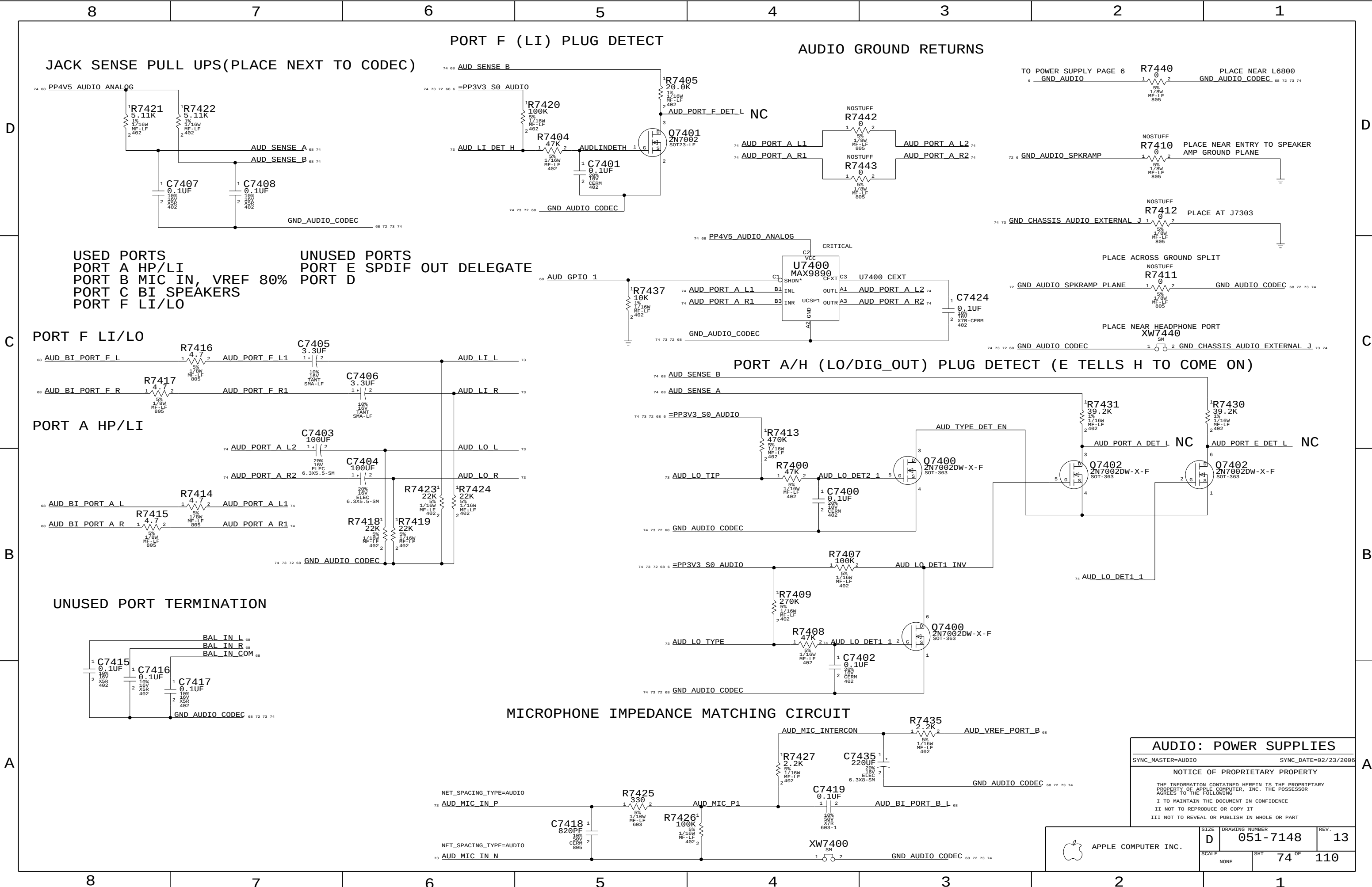
NONE

SHT

68

OF

110



JACK SENSE PULL UPS(PLACE NEXT TO CODEC)

PORT F (LI) PLUG DETECT

AUDIO GROUND RETURNS

TO POWER SUPPLY PAGE 6
GND_AUDIO

USED PORTS
PORT A HP/LI
PORT B MIC IN, VREF 80%
PORT C BI SPEAKERS
PORT F LI/LO

UNUSED PORTS
PORT E SPDIF OUT DELEGATE
PORT D

PORT F LI/LO

PORT A HP/LI

UNUSED PORT TERMINATION

MICROPHONE IMPEDANCE MATCHING CIRCUIT

AUDIO: POWER SUPPLIES

SYNC_MASTER=AUDIO SYNC_DATE=02/23/2006

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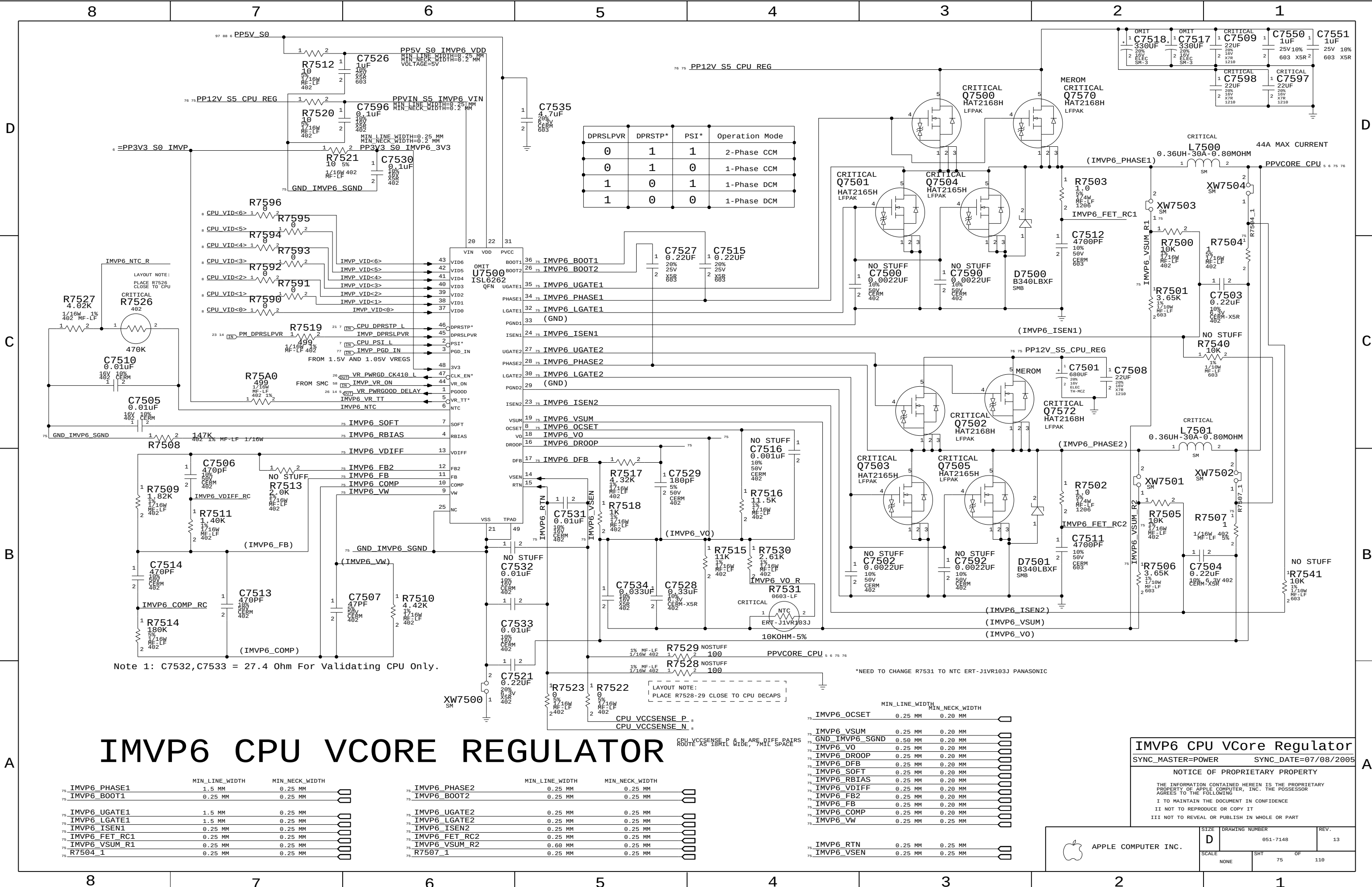
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APPLE COMPUTER INC.

SIZE D DRAWING NUMBER 051-7148 REV. 13

SCALE NONE SHT 74 OF 110



IMVP6 CPU VCore REGULATOR

	MIN_LINE_WIDTH	MIN_NECK_WIDTH
IMVP6_PHASE1	1.5 MM	0.25 MM
IMVP6_BOOT1	0.25 MM	0.25 MM
IMVP6_UGATE1	1.5 MM	0.25 MM
IMVP6_LGATE1	1.5 MM	0.25 MM
IMVP6_ISEN1	0.25 MM	0.25 MM
IMVP6_FET_RC1	0.25 MM	0.25 MM
IMVP6_VSUM_R1	0.25 MM	0.25 MM
R7504_1	0.25 MM	0.25 MM

	MIN_LINE_WIDTH	MIN_NECK_WIDTH
IMVP6_PHASE2	0.25 MM	0.25 MM
IMVP6_BOOT2	0.25 MM	0.25 MM
IMVP6_UGATE2	0.25 MM	0.25 MM
IMVP6_LGATE2	0.25 MM	0.25 MM
IMVP6_ISEN2	0.25 MM	0.25 MM
IMVP6_FET_RC2	0.25 MM	0.25 MM
IMVP6_VSUM_R2	0.60 MM	0.25 MM
R7507_1	0.25 MM	0.25 MM

	MIN_LINE_WIDTH	MIN_NECK_WIDTH
IMVP6_OCSET	0.25 MM	0.20 MM
IMVP6_VSUM	0.25 MM	0.20 MM
GND_IMVP6_SGND	0.50 MM	0.20 MM
IMVP6_VO	0.25 MM	0.20 MM
IMVP6_DR00P	0.25 MM	0.20 MM
IMVP6_DFB	0.25 MM	0.20 MM
IMVP6_SOFT	0.25 MM	0.20 MM
IMVP6_RBIAS	0.25 MM	0.20 MM
IMVP6_VDIFF	0.25 MM	0.20 MM
IMVP6_FB2	0.25 MM	0.20 MM
IMVP6_FB	0.25 MM	0.20 MM
IMVP6_COMP	0.25 MM	0.20 MM
IMVP6_VW	0.25 MM	0.25 MM
IMVP6_RTIN	0.25 MM	0.25 MM
IMVP6_VSEN	0.25 MM	0.25 MM

IMVP6 CPU VCore Regulator

SYNC_MASTER=POWER SYNC_DATE=07/08/2005

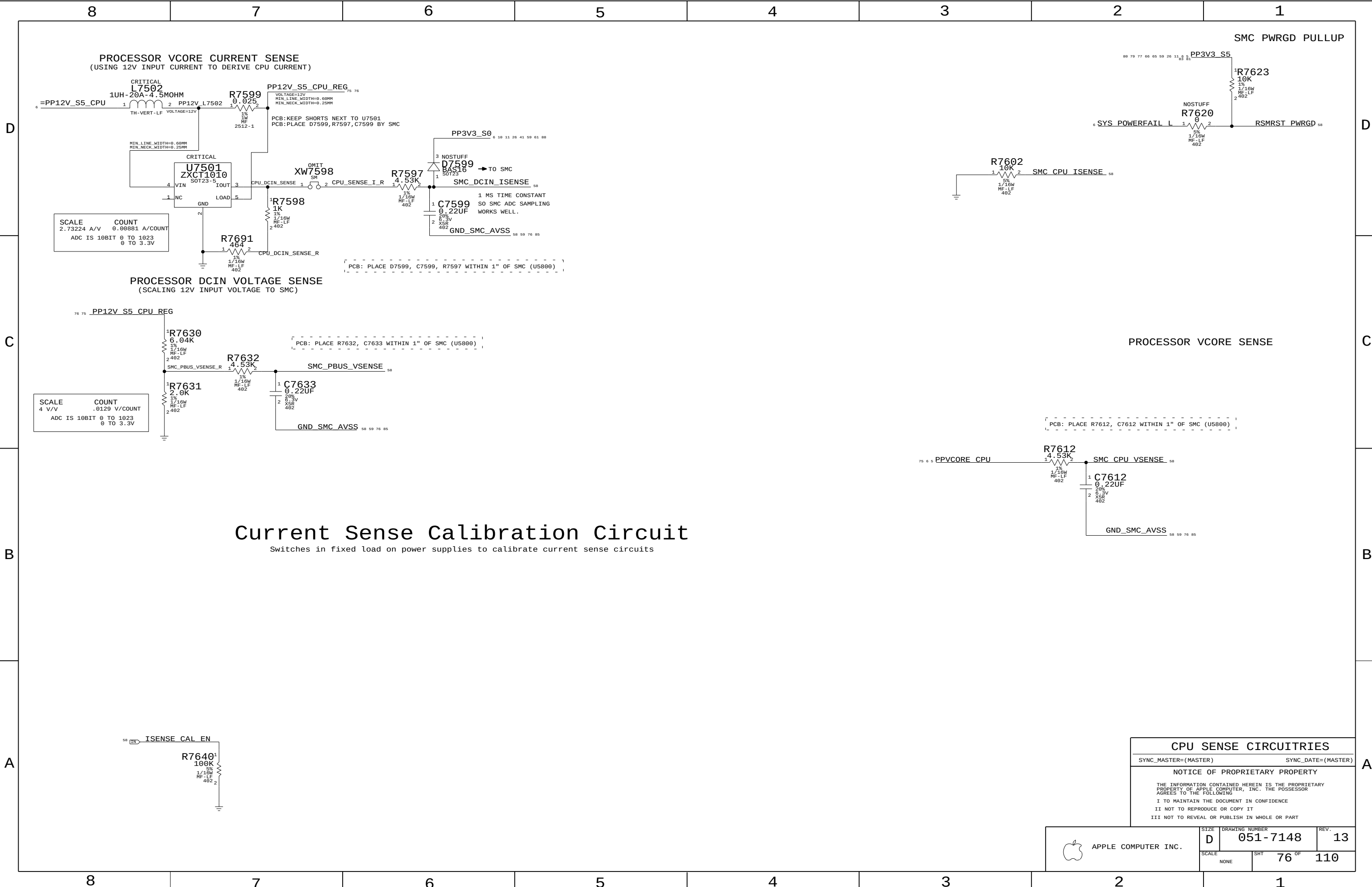
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SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE	SHT	OF
NONE	75	110



Current Sense Calibration Circuit

Switches in fixed load on power supplies to calibrate current sense circuits

CPU SENSE CIRCUITRIES

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

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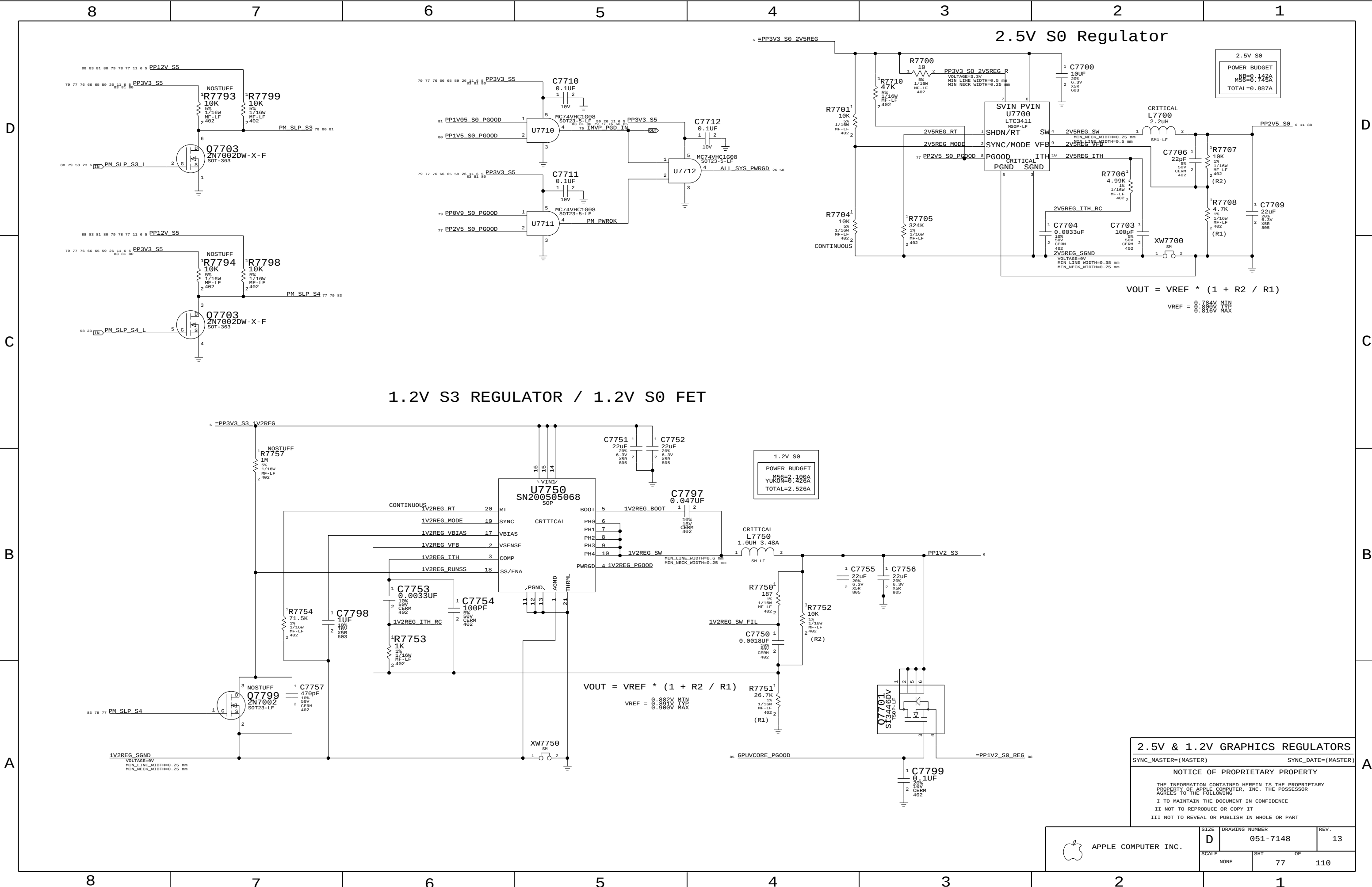
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APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE	SHT	76 OF 110
NONE		



2.5V S0 Regulator

2.5V S0
POWER BUDGET
NB=0.142A
MS=0.742A
TOTAL=0.887A

$$VOUT = VREF * (1 + R2 / R1)$$

$$VREF = 0.784V MIN$$

$$0.890V TYP$$

$$0.816V MAX$$

1.2V S3 REGULATOR / 1.2V S0 FET

1.2V S0
POWER BUDGET
MS=0.198A
YUKON=0.326A
TOTAL=2.526A

$$VOUT = VREF * (1 + R2 / R1)$$

$$VREF = 0.882V MIN$$

$$0.990V TYP$$

$$0.990V MAX$$

2.5V & 1.2V GRAPHICS REGULATORS

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

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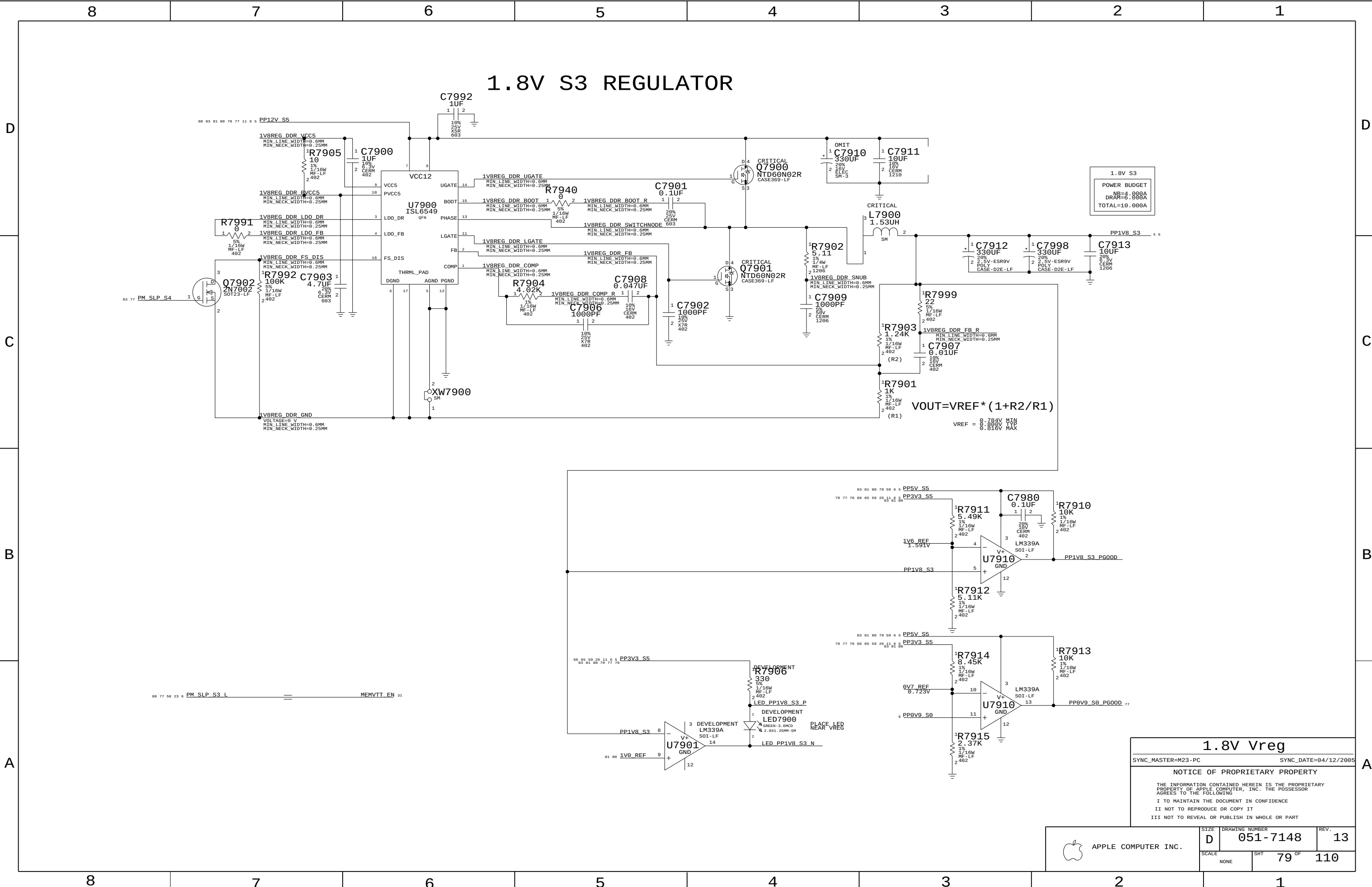
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APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE	SHT	OF
NONE	77	110



1.8V S3 REGULATOR

1.8V S3
POWER BUDGET
N=4
DRA=4.000A
TOTAL=10.000A

$V_{OUT} = V_{REF} * (1 + R2/R1)$
 $V_{REF} = 0.784V \text{ MIN}$
 $0.800V \text{ TYP}$
 $0.816V \text{ MAX}$

1.8V Vreg

SYNC_MASTER=M23-PC SYNC_DATE=04/12/2005

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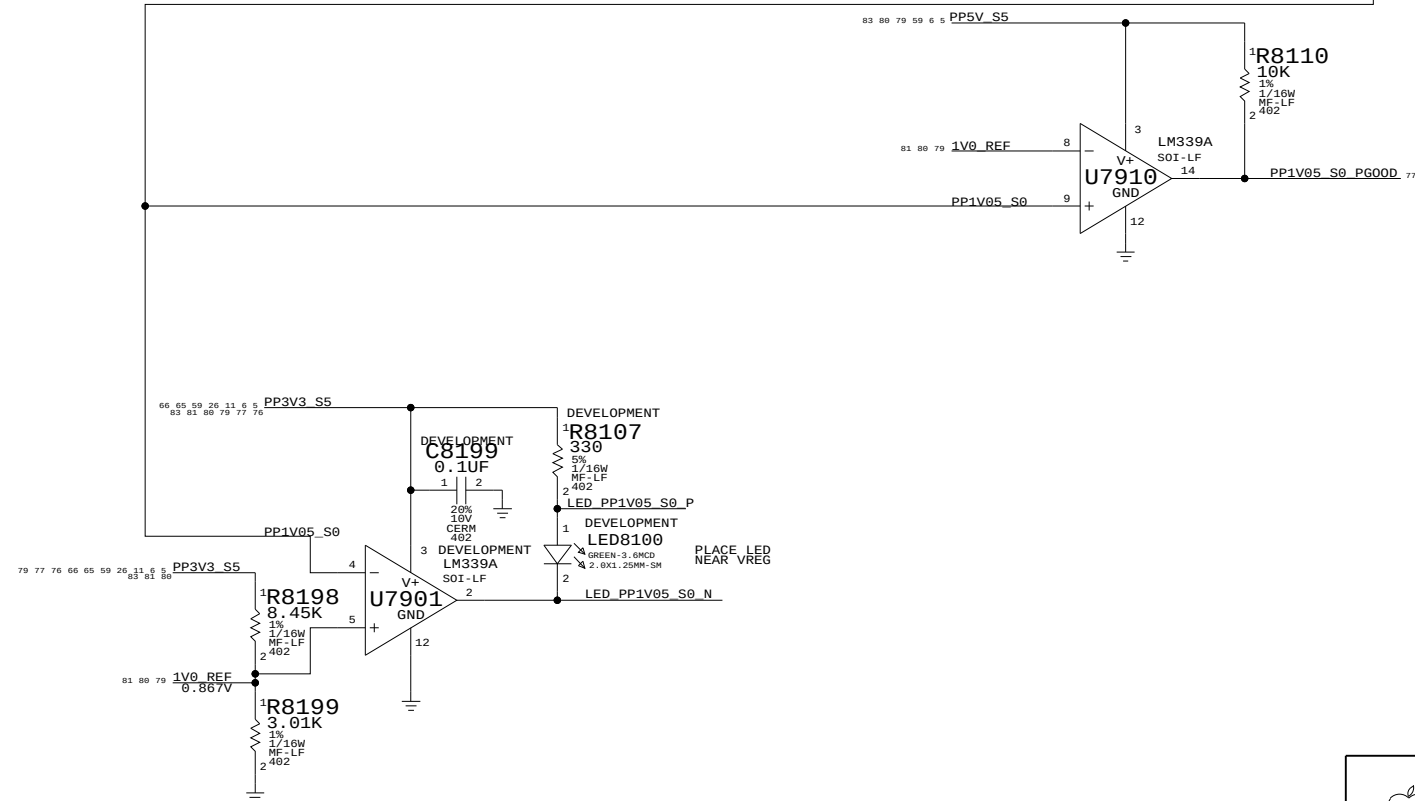
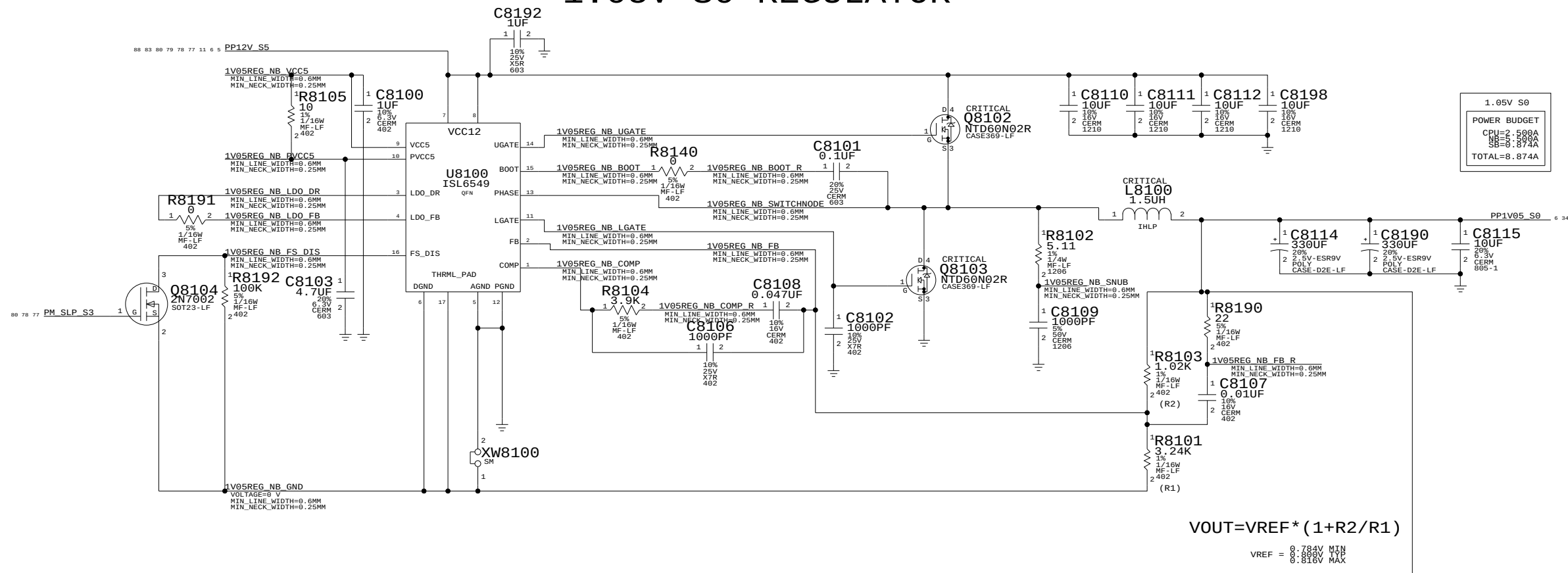
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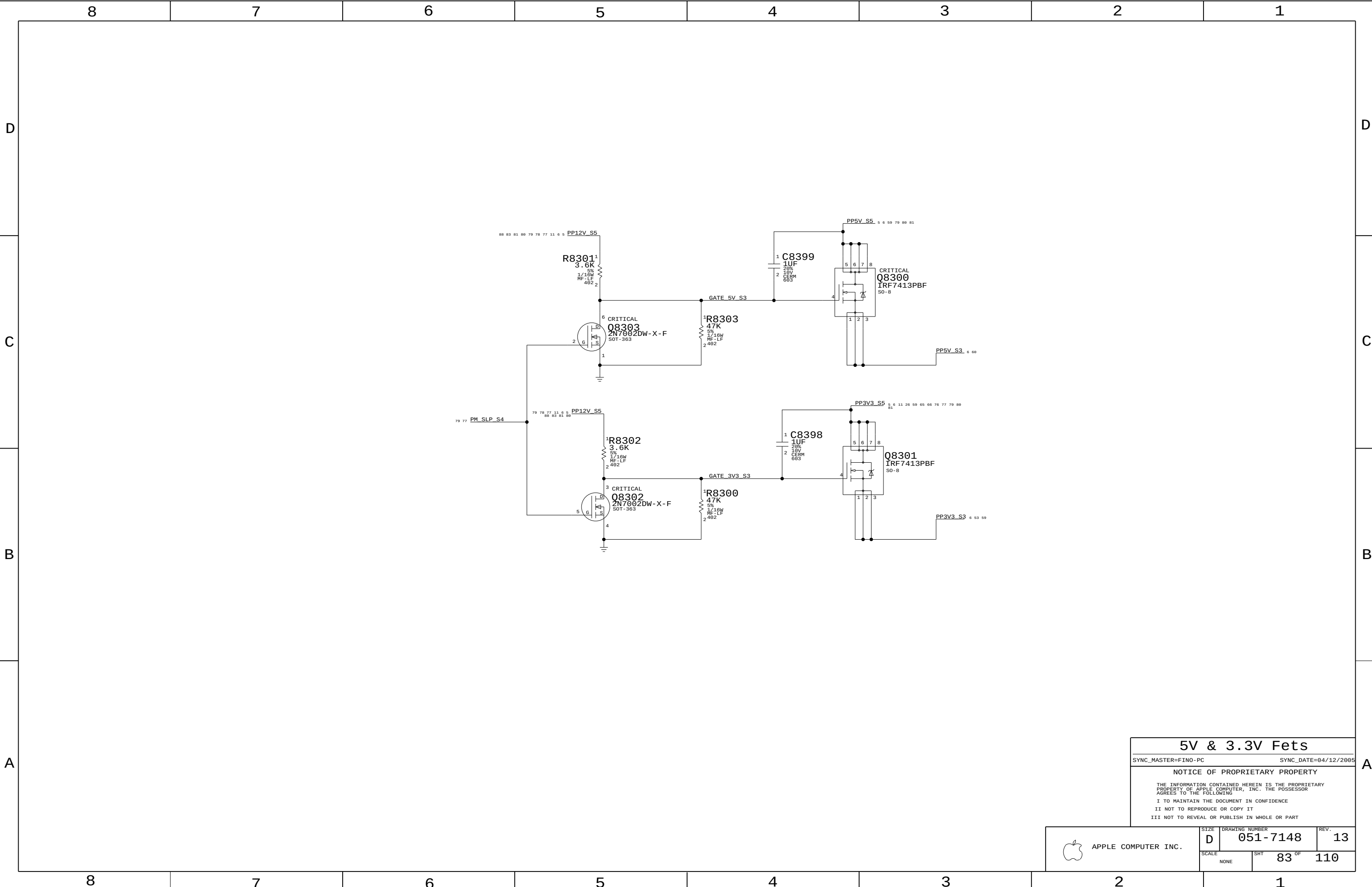
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APPLE COMPUTER INC.	SIZE D	DRAWING NUMBER 051-7148	REV. 13
	SCALE NONE	SHT 79 OF 110	

1.05V S0 REGULATOR



1.05V VREG	
SYNC_MASTER=M38-RT	SYNC_DATE=05/18/2005
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5V & 3.3V Fets

SYNC_MASTER=FINO-PC

SYNC_DATE=04/12/2005

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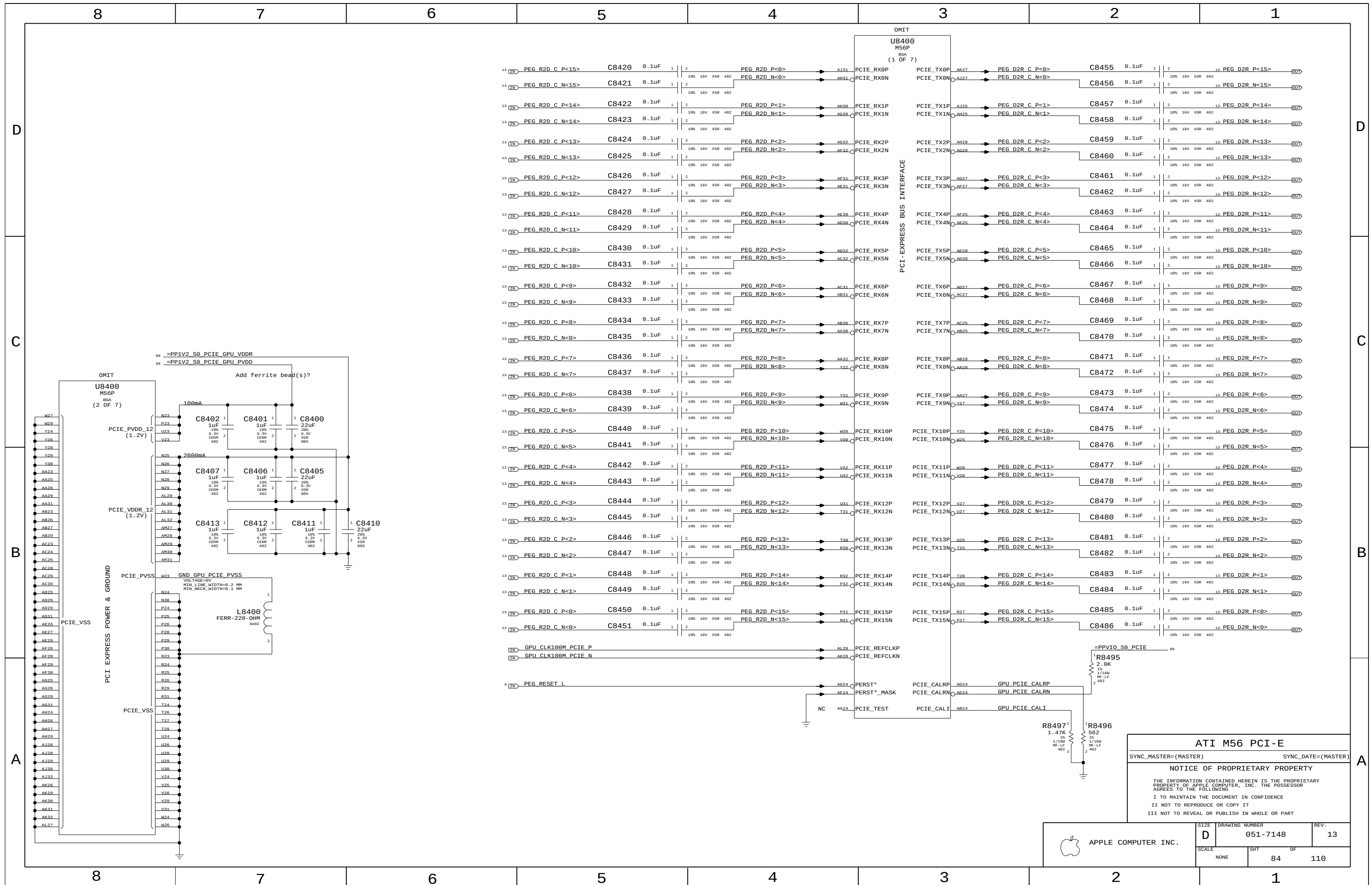
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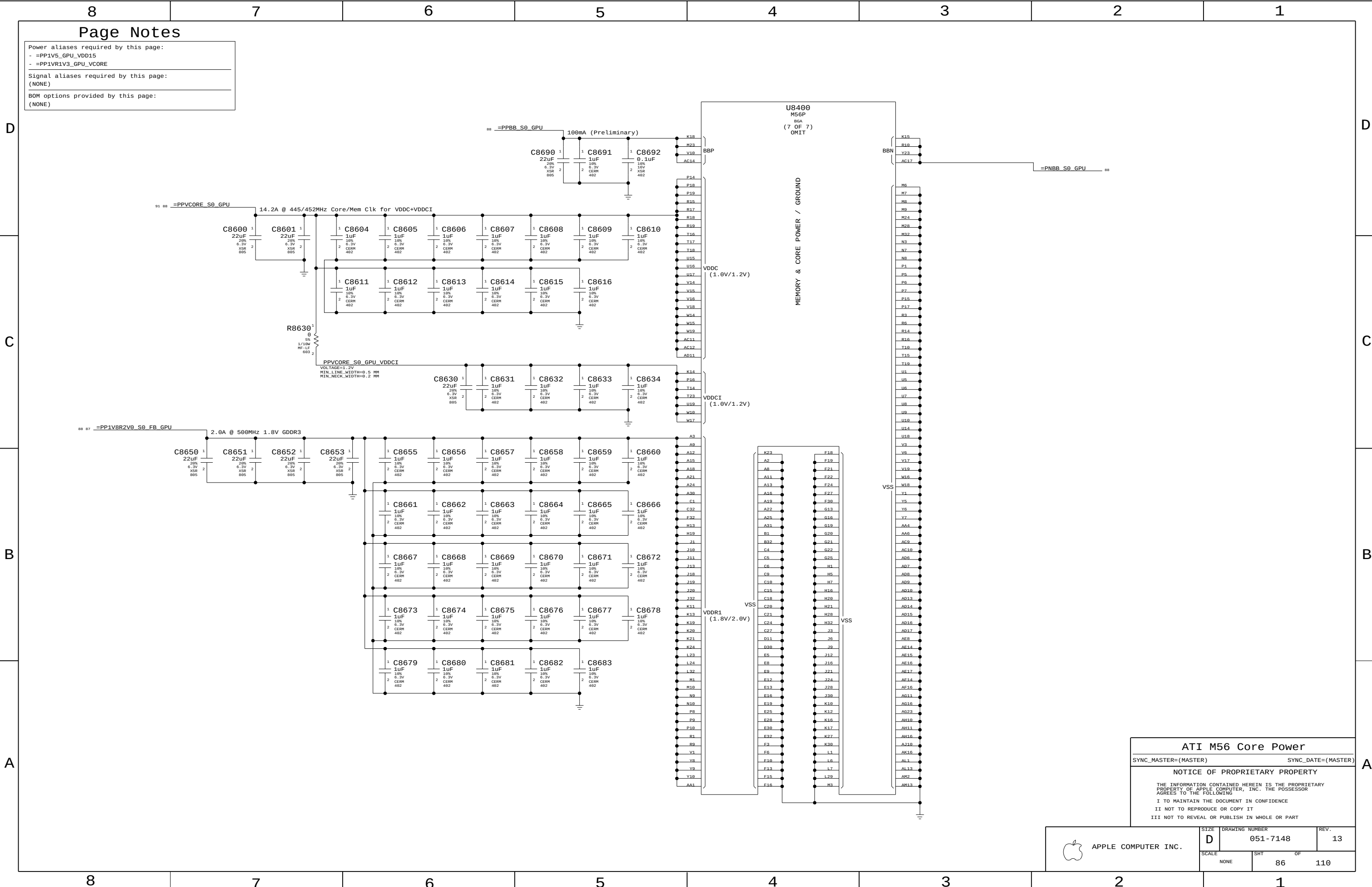
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 APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-7148	13
SCALE	SHT		OF
NONE	83		110





Power aliases required by this page:
- =PP1V5_GPU_VDD15
- =PP1VR1V3_GPU_VCORE

Signal aliases required by this page:
(NONE)

BOM options provided by this page:
(NONE)

ATI M56 Core Power

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

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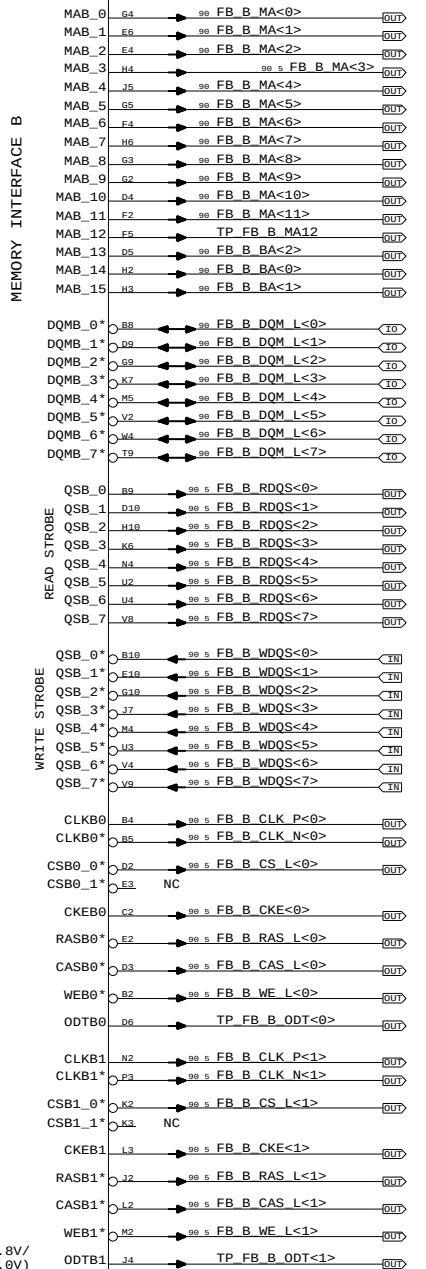
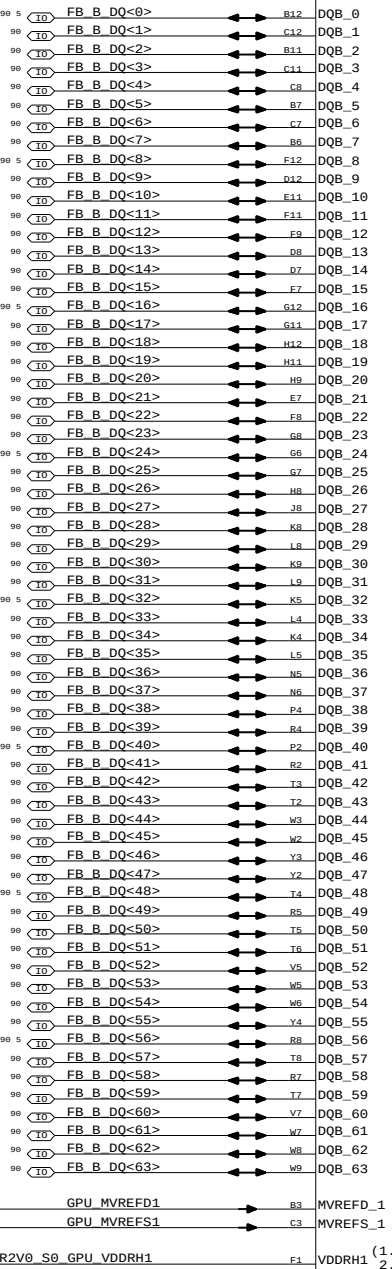
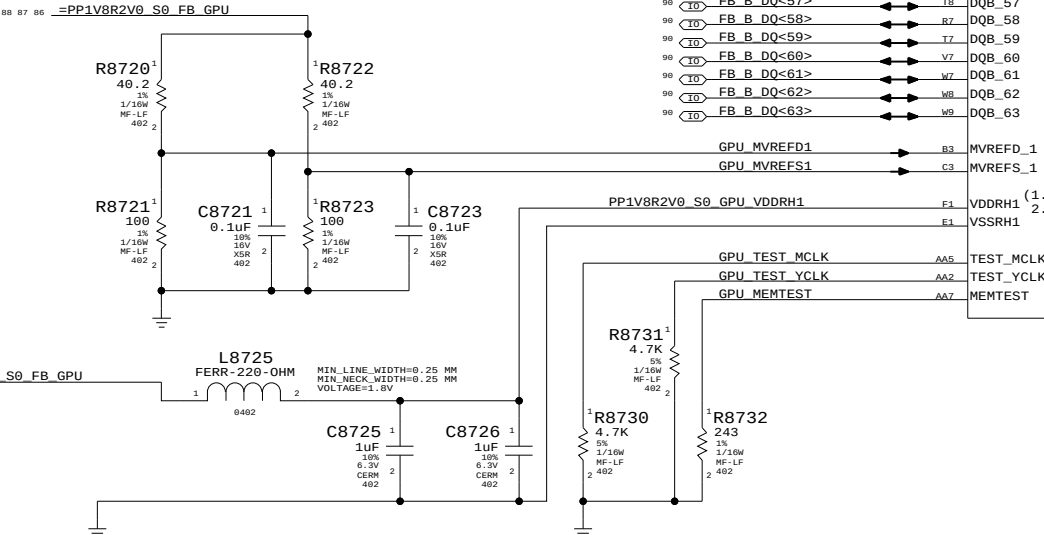
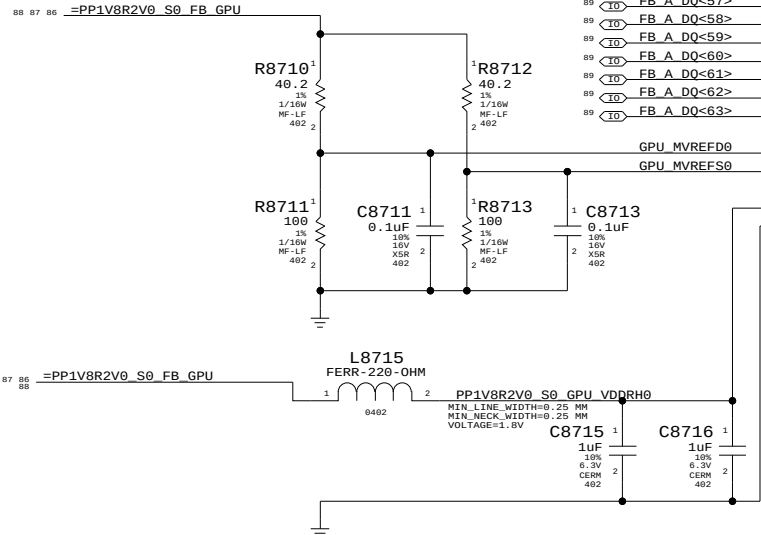
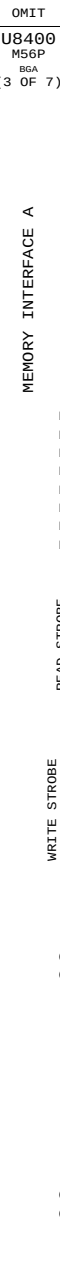
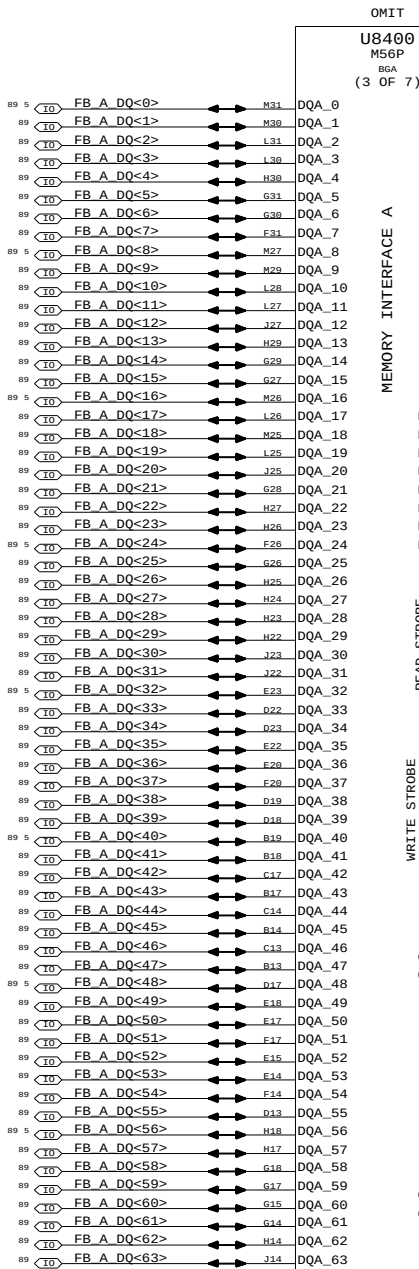
APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-7148	13
SCALE	SHT		OF
	NONE		86 110

Page Notes

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- =PP1V8R2V0_S0_FB_GPU

Signal aliases required by this page:
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BOM options provided by this page:
(NONE)



ATI M56 Frame Buffer I/F

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

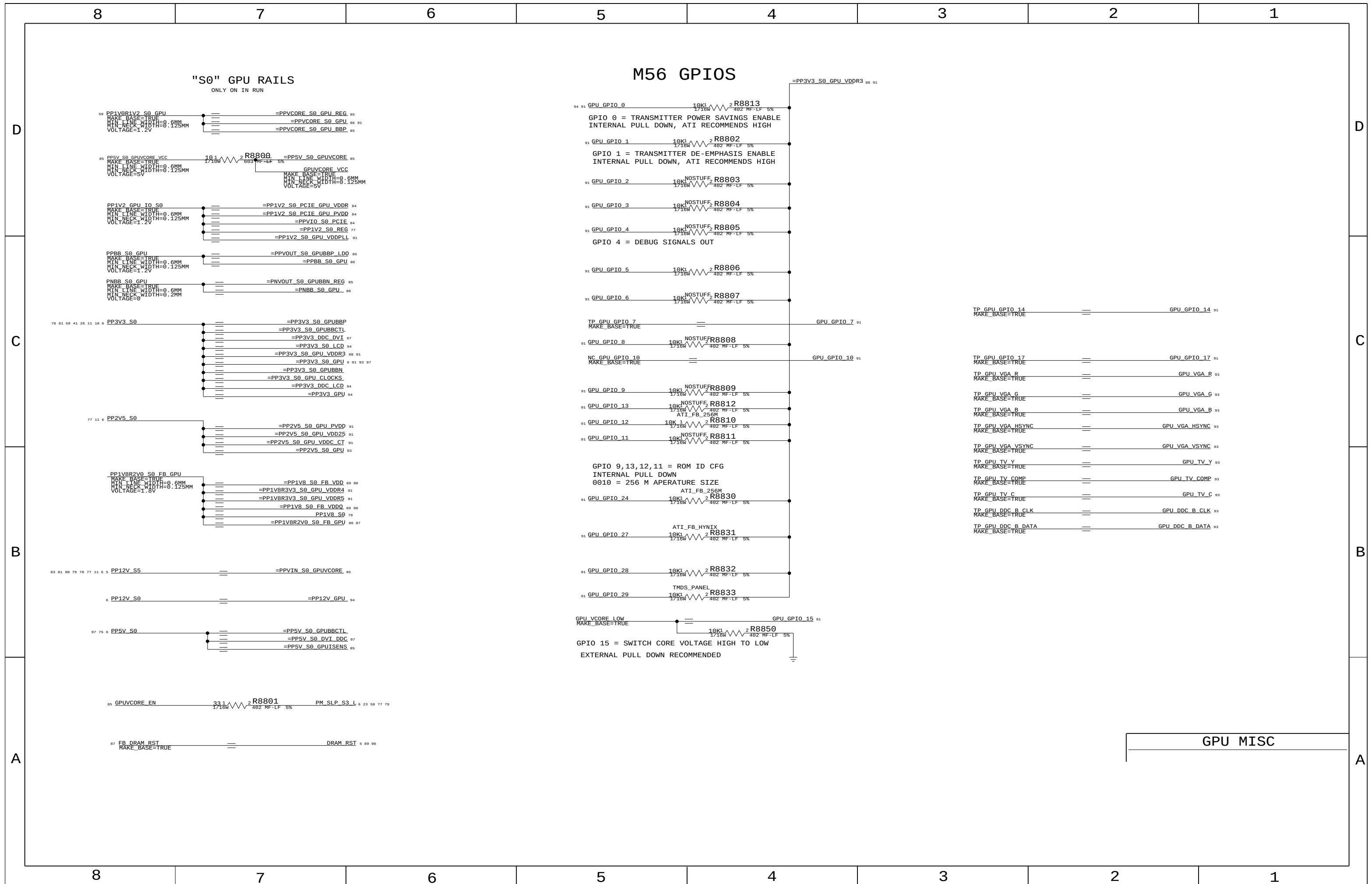
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Page Notes

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- =PP1V8_S0_FB_VDD
- =PP1V8_S0_FB_VDDQ

Signal aliases required by this page:
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BOM options provided by this page:
(NONE)

GDDR3 Frame Buffer A

SYNC_MASTER=(MASTER)

SYNC_DATE=(MASTER)

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APPLE COMPUTER INC.

SIZE

D

DRAWING NUMBER

051-7148

REV.

13

SCALE

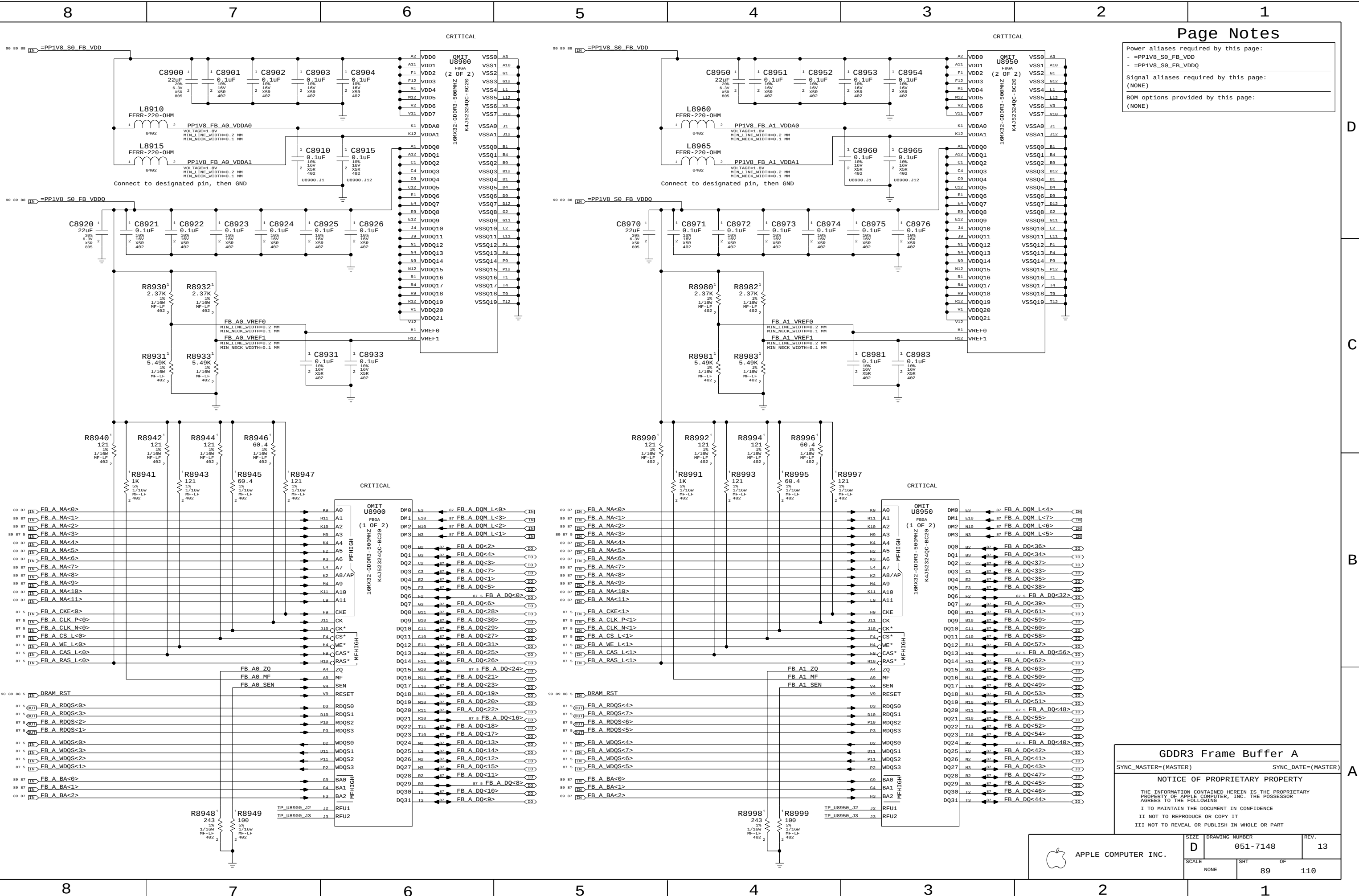
NONE

SHT

89

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Page Notes

Power aliases required by this page:

- =PP1V8_S0_FB_VDD
- =PP1V8_S0_FB_VDDQ

Signal aliases required by this page:
(NONE)

BOM options provided by this page:
(NONE)

GDDR3 Frame Buffer B

SYNC_MASTER=(MASTER)

SYNC_DATE=(MASTER)

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NONE

SHT

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8

7

6

5

4

3

2

1

Page Notes

Power aliases required by this page:

- =PP3V3_GPU_GPIOS
- =PP2V5_PVDD
- =PP1V8_GPU_LVDS_PLL

Signal aliases required by this page:

- =I2C_GPU_TMDS_SDA - I2C data line for external TMDS transmitters
- =I2C_GPU_TMDS_SCL - I2C clock line for external TMDS transmitters

BOM options provided by this page:

(NONE)

GPU GPIO 18
GPU GPIO 19
GPU GPIO 20
GPU GPIO 21
GPU GPIO 22
GPU GPIO 23
GPU GPIO 24
GPU GPIO 25
GPU GPIO 26
GPU GPIO 27
GPU GPIO 28
GPU GPIO 29
GPU GPIO 30
GPU GPIO 31
GPU GPIO 32
GPU GPIO 33
GPU GPIO 34

OMIT
U8400
M56P
BGA
(6 OF 7)

GENERAL PURPOSE I/O

VREFG
GPIO_0
GPIO_1
GPIO_2
GPIO_3
GPIO_4
GPIO_5
GPIO_6
GPIO_7_BLON
GPIO_8
GPIO_9
GPIO_10
GPIO_11
GPIO_12
GPIO_13
GPIO_14
GPIO_15
GPIO_16
GPIO_17

GENERIC_A
GENERIC_B
GENERIC_C
GENERIC_D

PANEL DIGON
CONTROL VARY_BL
NC_DVOVMODE_0
NC_DVOVMODE_1

DVPCLK
DVPCTL_0
DVPCTL_1
DVPCTL_2

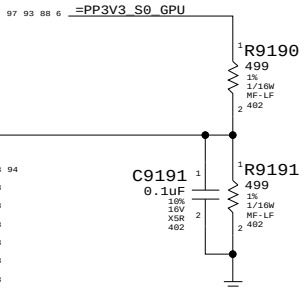
DVPDATA_0
DVPDATA_1
DVPDATA_2
DVPDATA_3
DVPDATA_4
DVPDATA_5
DVPDATA_6
DVPDATA_7
DVPDATA_8
DVPDATA_9
DVPDATA_10
DVPDATA_11

DVPDATA_12
DVPDATA_13
DVPDATA_14
DVPDATA_15
DVPDATA_16
DVPDATA_17
DVPDATA_18
DVPDATA_19
DVPDATA_20
DVPDATA_21
DVPDATA_22
DVPDATA_23

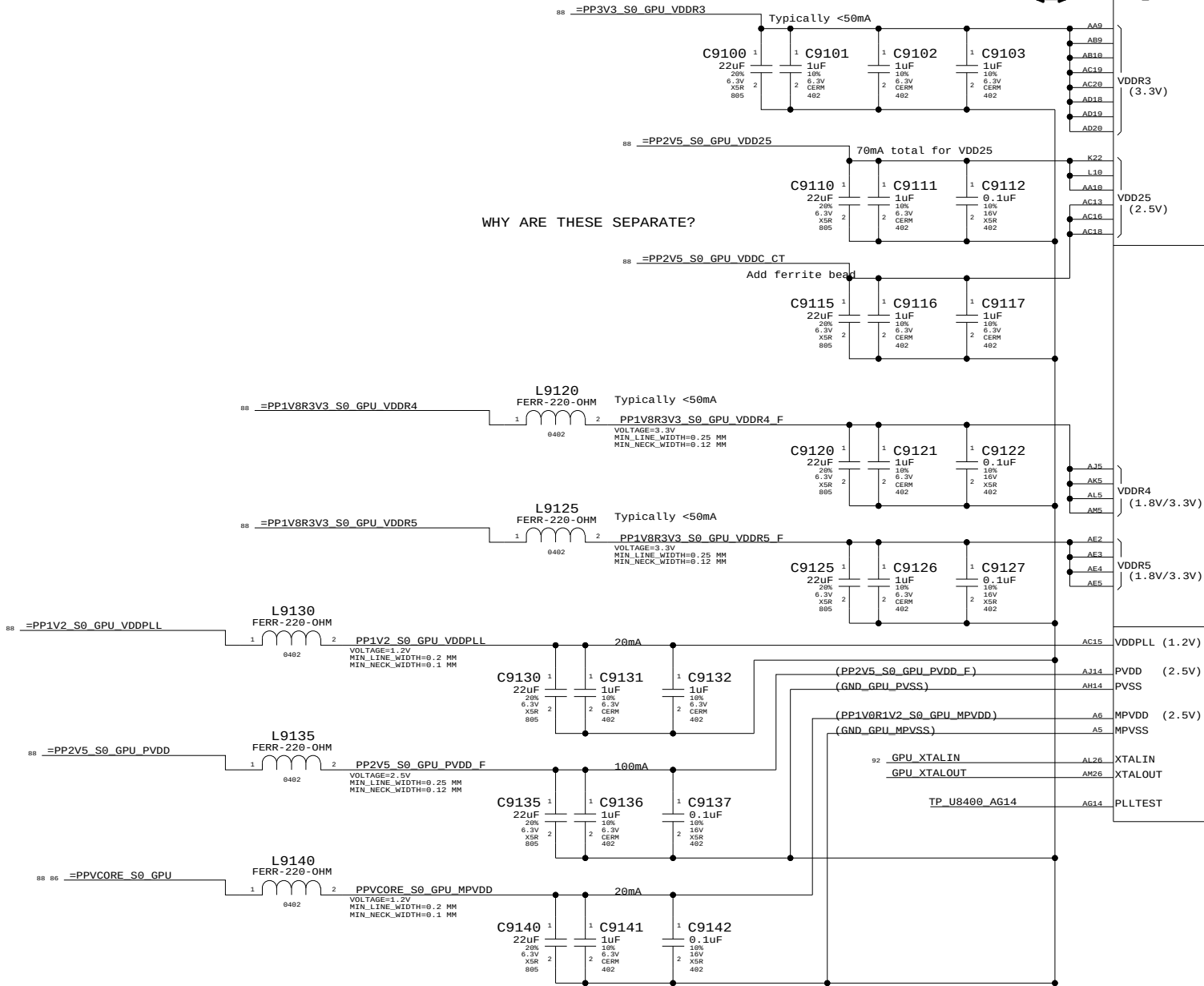
VIP HOST / EXTERNAL TMDS

PLL & XTAL

THERMAL DIODE
ROM ROMCS*
TEST TESTEN



WHY ARE THESE SEPARATE?



ATI M56 GPIO/DVO/Misc

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

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Power aliases required by this page:

- =PP2V5_S0_GPU
- =PP1V8R2V5_S0_GPU_LVDDR

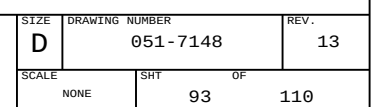
Signal aliases required by this page:

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BOM options provided by this page:

(NONE)

BOM options provided by this page:
(NONE)



8	7	6	5	4	3	2	1
---	---	---	---	---	---	---	---



A

8	7	6	5	4	3	2	1
---	---	---	---	---	---	---	---

8		7		6		5		4		3		2		1		
D															D	
C															C	
B															B	
A															A	

TP_TMDS_DATA_P<3> == TMDS_DATA_P<3> 03
MAKE_BASE=TRUE

TP_TMDS_DATA_N<3> == TMDS_DATA_N<3> 03
MAKE_BASE=TRUE

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MAKE_BASE=TRUE

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MAKE_BASE=TRUE

TP_TMDS_DATA_P<5> == TMDS_DATA_P<5> 03
MAKE_BASE=TRUE

TP_TMDS_DATA_N<5> == TMDS_DATA_N<5> 03
MAKE_BASE=TRUE

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MAKE_BASE=TRUE

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MAKE_BASE=TRUE

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MAKE_BASE=TRUE

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TP_ATI_DVPCNTL<2> == ATI_DVPCNTL<2> 01
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NO_TEST=TRUE

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TP_GPU_GENERICB == GPU_GENERICB 01
MAKE_BASE=TRUE

TP_GPU_GENERICC == GPU_GENERICC 01
MAKE_BASE=TRUE

M56 TPS

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	SMB_CK410_DATA - @m38a_lib.M38A		SMB_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		=SMB_AIRPORT_DATA - @m38a_lib.M38A		=PP0V9_S0_MEMVTT_LDO		=PP0V9_S0_MEMVTT_LDO - @m38a_lib.M38A		=PP0V9_S0_MEM_TERM - @m38a_lib.M38A		=PP0V9_S0 - @m38a_lib.M38A		27D6 3386		=PP3V3_S0_SB_VCC3_3_IDE - @m38a_lib.M38A		6A4 2403 2503		=PP5V_S3_USB - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		6C3 47D3	
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	SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		=SMB_AIRPORT_DATA - @m38a_lib.M38A		=PP0V9_S0_MEMVTT_LDO		=PP0V9_S0_MEMVTT_LDO - @m38a_lib.M38A		=PP0V9_S0_MEM_TERM - @m38a_lib.M38A		=PP0V9_S0 - @m38a_lib.M38A		27C6 5384		=PP3V3_S0_SB_VCC3_3_IDE - @m38a_lib.M38A		6B4 24C3 25B3		=PP5V_S5 - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		6A4 65B6 65D7 66D6	
	SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		=SMB_AIRPORT_DATA - @m38a_lib.M38A		=PP0V9_S0_MEMVTT_LDO		=PP0V9_S0_MEMVTT_LDO - @m38a_lib.M38A		=PP0V9_S0_MEM_TERM - @m38a_lib.M38A		=PP0V9_S0 - @m38a_lib.M38A		27C6 5384		=PP3V3_S0_SB_VCC3_3_IDE - @m38a_lib.M38A		6B4 24C3 25B3		=PP5V_S5 - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		6A4 65B6 65D7 66D6	
	SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		=SMB_AIRPORT_DATA - @m38a_lib.M38A		=PP0V9_S0_MEMVTT_LDO		=PP0V9_S0_MEMVTT_LDO - @m38a_lib.M38A		=PP0V9_S0_MEM_TERM - @m38a_lib.M38A		=PP0V9_S0 - @m38a_lib.M38A		27C6 5384		=PP3V3_S0_SB_VCC3_3_IDE - @m38a_lib.M38A		6B4 24C3 25B3		=PP5V_S5 - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		6A4 65B6 65D7 66D6	
	SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		=SMB_AIRPORT_DATA - @m38a_lib.M38A		=PP0V9_S0_MEMVTT_LDO		=PP0V9_S0_MEMVTT_LDO - @m38a_lib.M38A		=PP0V9_S0_MEM_TERM - @m38a_lib.M38A		=PP0V9_S0 - @m38a_lib.M38A		27C6 5384		=PP3V3_S0_SB_VCC3_3_IDE - @m38a_lib.M38A		6B4 24C3 25B3		=PP5V_S5 - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		6A4 65B6 65D7 66D6	
SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		=SMB_AIRPORT_DATA - @m38a_lib.M38A		=PP0V9_S0_MEMVTT_LDO		=PP0V9_S0_MEMVTT_LDO - @m38a_lib.M38A		=PP0V9_S0_MEM_TERM - @m38a_lib.M38A		=PP0V9_S0 - @m38a_lib.M38A		27C6 5384		=PP3V3_S0_SB_VCC3_3_IDE - @m38a_lib.M38A		6B4 24C3 25B3		=PP5V_S5 - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		6A4 65B6 65D7 66D6		
B	SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		=SMB_AIRPORT_DATA - @m38a_lib.M38A		=PP0V9_S0_MEMVTT_LDO		=PP0V9_S0_MEMVTT_LDO - @m38a_lib.M38A		=PP0V9_S0_MEM_TERM - @m38a_lib.M38A		=PP0V9_S0 - @m38a_lib.M38A		27C6 5384		=PP3V3_S0_SB_VCC3_3_IDE - @m38a_lib.M38A		6B4 24C3 25B3		=PP5V_S5 - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		6A4 65B6 65D7 66D6	
	SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		=SMB_AIRPORT_DATA - @m38a_lib.M38A		=PP0V9_S0_MEMVTT_LDO		=PP0V9_S0_MEMVTT_LDO - @m38a_lib.M38A		=PP0V9_S0_MEM_TERM - @m38a_lib.M38A		=PP0V9_S0 - @m38a_lib.M38A		27C6 5384		=PP3V3_S0_SB_VCC3_3_IDE - @m38a_lib.M38A		6B4 24C3 25B3		=PP5V_S5 - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		6A4 65B6 65D7 66D6	
	SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		=SMB_AIRPORT_DATA - @m38a_lib.M38A		=PP0V9_S0_MEMVTT_LDO		=PP0V9_S0_MEMVTT_LDO - @m38a_lib.M38A		=PP0V9_S0_MEM_TERM - @m38a_lib.M38A		=PP0V9_S0 - @m38a_lib.M38A		27C6 5384		=PP3V3_S0_SB_VCC3_3_IDE - @m38a_lib.M38A		6B4 24C3 25B3		=PP5V_S5 - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		6A4 65B6 65D7 66D6	
	SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		=SMB_AIRPORT_DATA - @m38a_lib.M38A		=PP0V9_S0_MEMVTT_LDO		=PP0V9_S0_MEMVTT_LDO - @m38a_lib.M38A		=PP0V9_S0_MEM_TERM - @m38a_lib.M38A		=PP0V9_S0 - @m38a_lib.M38A		27C6 5384		=PP3V3_S0_SB_VCC3_3_IDE - @m38a_lib.M38A		6B4 24C3 25B3		=PP5V_S5 - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		6A4 65B6 65D7 66D6	
	SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		=SMB_AIRPORT_DATA - @m38a_lib.M38A		=PP0V9_S0_MEMVTT_LDO		=PP0V9_S0_MEMVTT_LDO - @m38a_lib.M38A		=PP0V9_S0_MEM_TERM - @m38a_lib.M38A		=PP0V9_S0 - @m38a_lib.M38A		27C6 5384		=PP3V3_S0_SB_VCC3_3_IDE - @m38a_lib.M38A		6B4 24C3 25B3		=PP5V_S5 - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		6A4 65B6 65D7 66D6	
	SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		=SMB_AIRPORT_DATA - @m38a_lib.M38A		=PP0V9_S0_MEMVTT_LDO		=PP0V9_S0_MEMVTT_LDO - @m38a_lib.M38A		=PP0V9_S0_MEM_TERM - @m38a_lib.M38A		=PP0V9_S0 - @m38a_lib.M38A		27C6 5384		=PP3V3_S0_SB_VCC3_3_IDE - @m38a_lib.M38A		6B4 24C3 25B3		=PP5V_S5 - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		6A4 65B6 65D7 66D6	
	SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		=SMB_AIRPORT_DATA - @m38a_lib.M38A		=PP0V9_S0_MEMVTT_LDO		=PP0V9_S0_MEMVTT_LDO - @m38a_lib.M38A		=PP0V9_S0_MEM_TERM - @m38a_lib.M38A		=PP0V9_S0 - @m38a_lib.M38A		27C6 5384		=PP3V3_S0_SB_VCC3_3_IDE - @m38a_lib.M38A		6B4 24C3 25B3		=PP5V_S5 - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		6A4 65B6 65D7 66D6	
	SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		=SMB_AIRPORT_DATA - @m38a_lib.M38A		=PP0V9_S0_MEMVTT_LDO		=PP0V9_S0_MEMVTT_LDO - @m38a_lib.M38A		=PP0V9_S0_MEM_TERM - @m38a_lib.M38A		=PP0V9_S0 - @m38a_lib.M38A		27C6 5384		=PP3V3_S0_SB_VCC3_3_IDE - @m38a_lib.M38A		6B4 24C3 25B3		=PP5V_S5 - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		6A4 65B6 65D7 66D6	
	SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		=SMB_AIRPORT_DATA - @m38a_lib.M38A		=PP0V9_S0_MEMVTT_LDO		=PP0V9_S0_MEMVTT_LDO - @m38a_lib.M38A		=PP0V9_S0_MEM_TERM - @m38a_lib.M38A		=PP0V9_S0 - @m38a_lib.M38A		27C6 5384		=PP3V3_S0_SB_VCC3_3_IDE - @m38a_lib.M38A		6B4 24C3 25B3		=PP5V_S5 - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		6A4 65B6 65D7 66D6	
	SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		=SMB_AIRPORT_DATA - @m38a_lib.M38A		=PP0V9_S0_MEMVTT_LDO		=PP0V9_S0_MEMVTT_LDO - @m38a_lib.M38A		=PP0V9_S0_MEM_TERM - @m38a_lib.M38A		=PP0V9_S0 - @m38a_lib.M38A		27C6 5384		=PP3V3_S0_SB_VCC3_3_IDE - @m38a_lib.M38A		6B4 24C3 25B3		=PP5V_S5 - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		6A4 65B6 65D7 66D6	
SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		SMB_CK410_DATA - @m38a_lib.M38A		=SMB_AIRPORT_DATA - @m38a_lib.M38A		=PP0V9_S0_MEMVTT_LDO		=PP0V9_S0_MEMVTT_LDO - @m38a_lib.M38A		=PP0V9_S0_MEM_TERM - @m38a_lib.M38A		=PP0V9_S0 - @m38a_lib.M38A		27C6 5384		=PP3V3_S0_SB_VCC3_3_IDE - @m38a_lib.M38A		6B4 24C3 25B3		=PP5V_S5 - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		=PP12V_GPU - @m38a_lib.M38A		6A4 65B6 65D7 66D6		
A	SMB_CK410_DATA - @m38a_lib.M38																													

D	AUD_GPIO_1	AUD_GPIO_1 - @m38a_lib.M38A	68C7 74C5	CK410_SRC2_P	CK410_SRC2_P - @m38a_lib.M38A	3384 34A6	DMI_N2S_N<3>	DMI_N2S_N<3> - @m38a_lib.M38A	1484 22D2	FB_A_DQ<22>	FB_A_DQ<22> - @m38a_lib.M38A	87C7 89A6	D																		
	AUD_GPIO_2	AUD_GPIO_2 - @m38a_lib.M38A	68B7 68C7	CK410_SRC3_N	CK410_SRC3_N - @m38a_lib.M38A	3384 34D3	DMI_N2S_P<0>	DMI_N2S_P<0> - @m38a_lib.M38A	588 14B4 22D2	FB_A_DQ<23>	FB_A_DQ<23> - @m38a_lib.M38A	87C7 89A6																			
	AUD_I1_DET_EMI	AUD_I1_DET_EMI - @m38a_lib.M38A	73D6	CK410_SRC3_P	CK410_SRC3_P - @m38a_lib.M38A	3384 34D3	DMI_N2S_P<1>	DMI_N2S_P<1> - @m38a_lib.M38A	1484 22D2	FB_A_DQ<24>	FB_A_DQ<24> - @m38a_lib.M38A	5A6 5D6 87C7 89A6																			
	AUD_I1_DET_H	AUD_I1_DET_H - @m38a_lib.M38A	73D4 74D6	CK410_SRC4_N	CK410_SRC4_N - @m38a_lib.M38A	3384 34B6	DMI_N2S_P<2>	DMI_N2S_P<2> - @m38a_lib.M38A	1484 22D2	FB_A_DQ<25>	FB_A_DQ<25> - @m38a_lib.M38A	87C7 89A6																			
	AUD_I1_DET_JACK	AUD_I1_DET_JACK - @m38a_lib.M38A	73D7	CK410_SRC4_P	CK410_SRC4_P - @m38a_lib.M38A	3384 34B6	DMI_N2S_P<3>	DMI_N2S_P<3> - @m38a_lib.M38A	1484 22D2	FB_A_DQ<26>	FB_A_DQ<26> - @m38a_lib.M38A	87C7 89A6																			
	AUD_I1_GND_EMI	AUD_I1_GND_EMI - @m38a_lib.M38A	73D6	CK410_SRC5_N	CK410_SRC5_N - @m38a_lib.M38A	3384 34B6	DMI_S2N_N<0>	DMI_S2N_N<0> - @m38a_lib.M38A	5C7 14B4 22D2	FB_A_DQ<27>	FB_A_DQ<27> - @m38a_lib.M38A	87C7 89B6																			
	AUD_I1_GND_JACK	AUD_I1_GND_JACK - @m38a_lib.M38A	73D7	CK410_SRC5_P	CK410_SRC5_P - @m38a_lib.M38A	3384 34B6	DMI_S2N_N<1>	DMI_S2N_N<1> - @m38a_lib.M38A	1484 22D2	FB_A_DQ<28>	FB_A_DQ<28> - @m38a_lib.M38A	87C7 89B6																			
	AUD_I1_L	AUD_I1_L - @m38a_lib.M38A	73D4 74C5	CK410_SRC6_N	CK410_SRC6_N - @m38a_lib.M38A	3384 34B6	DMI_S2N_N<2>	DMI_S2N_N<2> - @m38a_lib.M38A	1484 22D2	FB_A_DQ<29>	FB_A_DQ<29> - @m38a_lib.M38A	87C7 89B6																			
	AUD_I1_L_EMI	AUD_I1_L_EMI - @m38a_lib.M38A	73D6	CK410_SRC6_P	CK410_SRC6_P - @m38a_lib.M38A	3384 34B6	DMI_S2N_N<3>	DMI_S2N_N<3> - @m38a_lib.M38A	1484 22D2	FB_A_DQ<30>	FB_A_DQ<30> - @m38a_lib.M38A	87C7 89B6																			
	AUD_I1_L_JACK	AUD_I1_L_JACK - @m38a_lib.M38A	73D7	CK410_SRC7_N	CK410_SRC7_N - @m38a_lib.M38A	3384 34D3	DMI_S2N_P<0>	DMI_S2N_P<0> - @m38a_lib.M38A	5C7 14B4 22D2	FB_A_DQ<31>	FB_A_DQ<31> - @m38a_lib.M38A	87C7 89A6																			
C	AUD_I1_R	AUD_I1_R - @m38a_lib.M38A	73D4 74C5	CK410_SRC7_P	CK410_SRC7_P - @m38a_lib.M38A	3384 34D3	DMI_S2N_P<1>	DMI_S2N_P<1> - @m38a_lib.M38A	1484 22D2	FB_A_DQ<32>	FB_A_DQ<32> - @m38a_lib.M38A	5A6 5D6 87C7 89B2	C																		
	AUD_I1_R_EMI	AUD_I1_R_EMI - @m38a_lib.M38A	73D6	CK410_SRC8_N	CK410_SRC8_N - @m38a_lib.M38A	33A4 34A6	DMI_S2N_P<2>	DMI_S2N_P<2> - @m38a_lib.M38A	1484 22D2	FB_A_DQ<33>	FB_A_DQ<33> - @m38a_lib.M38A	87C7 89B3																			
	AUD_I1_R_JACK	AUD_I1_R_JACK - @m38a_lib.M38A	73D7	CK410_SRC8_P	CK410_SRC8_P - @m38a_lib.M38A	33A4 34A6	DMI_S2N_P<3>	DMI_S2N_P<3> - @m38a_lib.M38A	1484 22D2	FB_A_DQ<34>	FB_A_DQ<34> - @m38a_lib.M38A	87C7 89B3																			
	AUD_I0_DET1_1	AUD_I0_DET1_1 - @m38a_lib.M38A	74A4 74B2	CK410_SRC_CLKREQ1_L	CK410_SRC_CLKREQ1_L - @m38a_lib.M38A	3384 34D8	DVI_DDC_CLK	DVI_DDC_CLK - @m38a_lib.M38A	97D2	FB_A_DQ<35>	FB_A_DQ<35> - @m38a_lib.M38A	87C7 89B3																			
	AUD_I0_DET1_INV	AUD_I0_DET1_INV - @m38a_lib.M38A	74B3	CK410_SRC_CLKREQ3_L	CK410_SRC_CLKREQ3_L - @m38a_lib.M38A	3384 34D8	DVI_DDC_CLK_UF	DVI_DDC_CLK_UF - @m38a_lib.M38A	97D3 97D5	FB_A_DQ<36>	FB_A_DQ<36> - @m38a_lib.M38A	87C7 89B3																			
	AUD_I0_DET2_1	AUD_I0_DET2_1 - @m38a_lib.M38A	74B4	CK410_SRC_CLKREQ6_L	CK410_SRC_CLKREQ6_L - @m38a_lib.M38A	33B4 53C6	DVI_DDC_DATA	DVI_DDC_DATA - @m38a_lib.M38A	97C2	FB_A_DQ<37>	FB_A_DQ<37> - @m38a_lib.M38A	87C7 89B3																			
	AUD_I0_GND_JACK	AUD_I0_GND_JACK - @m38a_lib.M38A	73B4	CK410_SRC_CLKREQ8_L	CK410_SRC_CLKREQ8_L - @m38a_lib.M38A	33B4 53C6	DVI_DDC_DATA_UF	DVI_DDC_DATA_UF - @m38a_lib.M38A	97C3 97D5	FB_A_DQ<38>	FB_A_DQ<38> - @m38a_lib.M38A	87C7 89B3																			
	AUD_I0_L	AUD_I0_L - @m38a_lib.M38A	73B6 74B5	CK410_SRC_CLKREQ8_L	CK410_SRC_CLKREQ8_L - @m38a_lib.M38A	33A4 34D8	DVI_HPD_UF	DVI_HPD_UF - @m38a_lib.M38A	97C3 97D5	FB_A_DQ<39>	FB_A_DQ<39> - @m38a_lib.M38A	87C7 89B3																			
	AUD_I0_L_EMI	AUD_I0_L_EMI - @m38a_lib.M38A	73B7	CK410_USB48_FSA	CK410_USB48_FSA - @m38a_lib.M38A	33A4 34C6	ENET_C4106_2	ENET_C4106_2 - @m38a_lib.M38A	41D2	FB_A_DQ<40>	FB_A_DQ<40> - @m38a_lib.M38A	5A6 5D6 87C7 89A2																			
	AUD_I0_L_JACK	AUD_I0_L_JACK - @m38a_lib.M38A	73B4	CK410_XTAL_IN	CK410_XTAL_IN - @m38a_lib.M38A	33C6	ENET_C4107_2	ENET_C4107_2 - @m38a_lib.M38A	41D2	FB_A_DQ<41>	FB_A_DQ<41> - @m38a_lib.M38A	87C7 89A3																			
B	AUD_I0_R	AUD_I0_R - @m38a_lib.M38A	73A8 74B5	CK410_XTAL_OUT	CK410_XTAL_OUT - @m38a_lib.M38A	33C6	ENET_C4117_1	ENET_C4117_1 - @m38a_lib.M38A	41B2	FB_A_DQ<42>	FB_A_DQ<42> - @m38a_lib.M38A	87C7 89A3	B																		
	AUD_I0_R_EMI	AUD_I0_R_EMI - @m38a_lib.M38A	73A7	CLK_NB_OE_L	CLK_NB_OE_L - @m38a_lib.M38A	14B6 33B4	ENET_C4118_1	ENET_C4118_1 - @m38a_lib.M38A	41B2	FB_A_DQ<43>	FB_A_DQ<43> - @m38a_lib.M38A	87C7 89A3																			
	AUD_I0_R_JACK	AUD_I0_R_JACK - @m38a_lib.M38A	73B4	CPU_A20M_L	CPU_A20M_L - @m38a_lib.M38A	5C8 7C7 21C4	ENET_CLK100M_PCIE_N	ENET_CLK100M_PCIE_N - @m38a_lib.M38A	5D5 34A4 34B2 41C5	FB_A_DQ<44>	FB_A_DQ<44> - @m38a_lib.M38A	87B7 89A3																			
	AUD_I0_TIP	AUD_I0_TIP - @m38a_lib.M38A	73B8 74B5	CK410_XTAL_OUT	CK410_XTAL_OUT - @m38a_lib.M38A	33C6	ENET_CLK100M_PCIE_P	ENET_CLK100M_PCIE_P - @m38a_lib.M38A	5D5 34A4 34B2 41C5	FB_A_DQ<45>	FB_A_DQ<45> - @m38a_lib.M38A	87B7 89A3																			
	AUD_I0_TIP_EMI	AUD_I0_TIP_EMI - @m38a_lib.M38A	73B7	CLK_NB_OE_L	CLK_NB_OE_L - @m38a_lib.M38A	14B6 33B4	ENET_CTRL12	ENET_CTRL12 - @m38a_lib.M38A	41C7 42B8	FB_A_DQ<46>	FB_A_DQ<46> - @m38a_lib.M38A	87B7 89A3																			
	AUD_I0_TIP_JACK	AUD_I0_TIP_JACK - @m38a_lib.M38A	73B4	CPU_BSEL<0>	CPU_BSEL<0> - @m38a_lib.M38A	7B4 34B8	TP_ENET_CTRL12	TP_ENET_CTRL12 - @m38a_lib.M38A	42B7	FB_A_DQ<47>	FB_A_DQ<47> - @m38a_lib.M38A	5A6 5D6 87B7 89A2																			
	AUD_I0_TIP_JACK	AUD_I0_TIP_JACK - @m38a_lib.M38A	73B4	CPU_BSEL<1>	CPU_BSEL<1> - @m38a_lib.M38A	7B4 34A8	ENET_CTRL25	ENET_CTRL25 - @m38a_lib.M38A	41C7 42C6	FB_A_DQ<48>	FB_A_DQ<48> - @m38a_lib.M38A	87B7 89A3																			

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C4200 CAP_1210 m38a[42D8] C4201 CAP_402 m38a[42D7] C4202 CAP_1210 m38a[42D7] C4203 CAP_1206-1 m38a[42D6] C4204 CAP_402 m38a[42D6] C4205 CAP_1210 m38a[42C5] C4206 CAP_402 m38a[42C5] C4209 CAP_603 m38a[42B7] C4210 CAP_402 m38a[42B6] C4300 CAP_402 m38a[43D7] C4301 CAP_402 m38a[43D6] C4304 CAP_402 m38a[43C6] C4305 CAP_402 m38a[43B6] C4401 CAP_402 m38a[44D1] C4402 CAP_402 m38a[44C1] C4410 CAP_402 m38a[44D6] C4412 CAP_402 m38a[44D1] C4500 CAP_402 m38a[45D4] C4501 CAP_402 m38a[45D3] C4502 CAP_402 m38a[45D3] C4503 CAP_805-1 m38a[45C6] C4504 CAP_402 m38a[45C4] C4505 CAP_402 m38a[45C5] C4506 CAP_402 m38a[45C5] C4507 CAP_402 m38a[45C5] C4508 CAP_402 m38a[45D5] C4509 CAP_402 m38a[45D5] C4510 CAP_402 m38a[45D5] C4515 CAP_805-1 m38a[45D6] C4520 CAP_402 m38a[45D5] C4521 CAP_402 m38a[45D4] C4522 CAP_402 m38a[45D3] C4523 CAP_402 m38a[45D3] C4524 CAP_805-1 m38a[46D5] C4610 CAP_402 m38a[46D4] C4611 CAP_402 m38a[46D4] C4612 CAP_402 m38a[46C4] C4613 CAP_402 m38a[46C4] C4615 CAP_603-1 m38a[46C2] C4616 CAP_402 m38a[46B2] C4620 CAP_402 m38a[46B4] C4621 CAP_402 m38a[46B4] C4622 CAP_402 m38a[46A4] C4623 CAP_402 m38a[46A4] C4625 CAP_603-1 m38a[46A2] C4626 CAP_402 m38a[46A2] C4650 CAP_402 m38a[46C7] C4654 CAP_402 m38a[46B8] C4660 CAP_402 m38a[46C7] C4664 CAP_402 m38a[46B7] C4700 CAP_805-1 m38a[47C8] C4710 CAP_P_B2 m38a[47D6] C4712 CAP_402 m38a[47D5] C4713 CAP_402 m38a[47D4] C4720 CAP_P_B2 m38a[47C6] C4722 CAP_402 m38a[47C4] C4723 CAP_402 m38a[47C4] C4730 CAP_P_B2 m38a[47B5] C4732 CAP_402 m38a[47A4] C4733 CAP_402 m38a[47A4] C4742 CAP_402 m38a[47D1] C4743 CAP_402 m38a[47D1] C4750 CAP_402 m38a[47B6] C4751 CAP_402 m38a[47C6] C4752 CAP_402 m38a[47D6] C4796 CAP_402 m38a[47C7] C4797 CAP_805-2 m38a[47D2] C4798 CAP_402 m38a[47B2] C4799 CAP_805-2 m38a[47B2] C5300 CAP_402 m38a[53B7] C5301 CAP_402 m38a[53B7] C5304 CAP_402 m38a[53D5] C5305 CAP_402 m38a[53D5] C5306 CAP_402 m38a[53D4] C5307 CAP_402 m38a[53C4] C5308 CAP_402 m38a[53C5] C5309 CAP_402 m38a[53C4] C5310 CAP_402 m38a[53C4] C5311 CAP_805-1 m38a[53C3] C5312 CAP_805-1 m38a[53D4] C5313 CAP_402 m38a[53C5] C5314 CAP_805-1 m38a[53C4] C5800 CAP_402 m38a[58B6] C5801 CAP_402 m38a[58B8] C5802 CAP_805 m38a[58D3] C5803 CAP_402 m38a[58D2] C5804 CAP_402 m38a[58D2] C5805 CAP_402 m38a[58D2] C5806 CAP_402 m38a[58D1] C5807 CAP_402 m38a[58D2] C5820 CAP_402 m38a[58C3] C5900 CAP_402 m38a[59D8]	C5901 CAP_402 m38a[59D8] C5902 CAP_402 m38a[59B7] C5903 CAP_402 m38a[59A8] C5919 CAP_402 m38a[59B4] C5940 CAP_402 m38a[59A4] C5941 CAP_402 m38a[59A3] C5942 CAP_805-1 m38a[59A3] C5943 CAP_402 m38a[59A5] C5951 CAP_402 m38a[59B8] C6000 CAP_402 m38a[60D4] C6001 CAP_402 m38a[60D4] C6002 CAP_402 m38a[60D4] C6003 CAP_402 m38a[60D4] C6100 CAP_402 m38a[61B5] C6101 CAP_402 m38a[61B5] C6301 CAP_402 m38a[63C2] C6308 CAP_402 m38a[63C5] C6309 CAP_402 m38a[63C6] C6311 CAP_402 m38a[63C2] C6312 CAP_402 m38a[63D3] C6500 CAP_603 m38a[65D5] C6501 CAP_805 m38a[65D5] C6502 CAP_603 m38a[65B4] C6503 CAP_805 m38a[65B5] C6504 CAP_P_6_3X11-TH-LF1 m38a[65C4] C6505 CAP_P_6_3X11-TH-LF1 m38a[65B3] C6600 CAP_603 m38a[66D4] C6601 CAP_805 m38a[66C5] C6602 CAP_P_SM-LF m38a[66C3] C6650 CAP_402 m38a[66B5] C6651 CAP_402 m38a[66A5] C6652 CAP_402 m38a[66B3] C6653 CAP_402 m38a[66A3] C6654 CAP_402 m38a[66B4] C6655 CAP_402 m38a[66B2] C6700 CAP_402 m38a[67C4] C6701 CAP_402 m38a[67C4] C6702 CAP_402 m38a[67C3] C6703 CAP_402 m38a[67C3] C6704 CAP_402 m38a[59B7] C6705 CAP_402 m38a[59B7] C6800 CAP_603 m38a[68D6] C6801 CAP_402 m38a[68D6] C6802 CAP_P_6_3X5.5-SM m38a[68D4] C6803 CAP_P_6_3X5.5-SM m38a[68D3] C6804 CAP_P_SMA-LF m38a[68B4] C6805 CAP_805 m38a[68B5] C6806 CAP_805 m38a[68B3] C6807 CAP_P_SMA-LF m38a[68B3] C6810 CAP_P_SMA-LF m38a[68B3] C6812 CAP_402 m38a[68B4] C6813 CAP_402 m38a[68B3] C6821 CAP_402 m38a[68C6] C6822 CAP_603 m38a[68A5] C6823 CAP_402 m38a[6																	

8			7			6			5			4			3			2			1		
D	C7528	CAP_402	m38a[7585]	C8434	CAP_402	m38a[84C5]	C8690	CAP_805	m38a[86D5]	C9342	CAP_402	m38a[93A5]	D										
	C7529	CAP_402	m38a[7585]	C8435	CAP_402	m38a[84C5]	C8691	CAP_402	m38a[86D5]	C9345	CAP_805	m38a[93A6]											
	C7530	CAP_402	m38a[7506]	C8436	CAP_402	m38a[84C5]	C8692	CAP_402	m38a[86D5]	C9346	CAP_402	m38a[93A5]											
	C7531	CAP_402	m38a[7585]	C8437	CAP_402	m38a[84C5]	C8711	CAP_402	m38a[87B7]	C9347	CAP_402	m38a[93A5]											
	C7532	CAP_402	m38a[7586]	C8438	CAP_402	m38a[84C5]	C8713	CAP_402	m38a[87B7]	C9400	CAP_603-1	m38a[94C7]											
	C7533	CAP_402	m38a[7586]	C8439	CAP_402	m38a[84C5]	C8715	CAP_402	m38a[87A7]	C9401	CAP_402	m38a[94C6]											
	C7534	CAP_402	m38a[7585]	C8440	CAP_402	m38a[84B5]	C8716	CAP_402	m38a[87A6]	C9410	CAP_402	m38a[94C6]											
	C7535	CAP_603	m38a[7505]	C8441	CAP_402	m38a[84B5]	C8721	CAP_402	m38a[87B4]	C9420	CAP_1210	m38a[94C5]											
	C7550	CAP_603	m38a[7501]	C8442	CAP_402	m38a[84B5]	C8723	CAP_402	m38a[87B4]	C9450	CAP_805	m38a[94C2]											
	C7551	CAP_603	m38a[7501]	C8443	CAP_402	m38a[84B5]	C8725	CAP_402	m38a[87A4]	C9470	CAP_402	m38a[94B2]											
C	C7590	CAP_402	m38a[75C3]	C8444	CAP_402	m38a[84B5]	C8726	CAP_402	m38a[87A3]	C9700	CAP_402	m38a[97C8]	C										
	C7592	CAP_402	m38a[75B3]	C8445	CAP_402	m38a[84B5]	C8900	CAP_805	m38a[89D7]	C9710	CAP_603	m38a[97C3]											
	C7596	CAP_402	m38a[75D6]	C8446	CAP_402	m38a[84B5]	C8901	CAP_402	m38a[89D7]	C9711	CAP_402	m38a[97D3]											
	C7597	CAP_1210	m38a[75D1]	C8447	CAP_402	m38a[84B5]	C8902	CAP_402	m38a[89D7]	C9713	CAP_402	m38a[97C2]											
	C7598	CAP_1210	m38a[75D1]	C8448	CAP_402	m38a[84B5]	C8903	CAP_402	m38a[89D7]	C9714	CAP_402	m38a[97C2]											
	C7599	CAP_402	m38a[76D6]	C8449	CAP_402	m38a[84B5]	C8904	CAP_402	m38a[89D6]	C9740	CAP_402	m38a[97A7]											
	C7612	CAP_402	m38a[76B2]	C8450	CAP_402	m38a[84B5]	C8910	CAP_402	m38a[89D7]	C9741	CAP_402	m38a[97A6]											
	C7633	CAP_402	m38a[76C7]	C8451	CAP_402	m38a[84B5]	C8915	CAP_402	m38a[89D6]	C9742	CAP_402	m38a[97A6]											
	C7700	CAP_603	m38a[77D2]	C8455	CAP_402	m38a[84D2]	C8920	CAP_805	m38a[89C8]	C9750	CAP_402	m38a[97B4]											
	C7703	CAP_402	m38a[77C2]	C8456	CAP_402	m38a[84D2]	C8921	CAP_402	m38a[89C8]	C9751	CAP_402	m38a[97A4]											
B	C7704	CAP_402	m38a[77C2]	C8457	CAP_402	m38a[84D2]	C8922	CAP_402	m38a[89C7]	D2500	DIODE_SCHOT_SOT23	m38a[25C8]	B										
	C7706	CAP_402	m38a[77D2]	C8458	CAP_402	m38a[84D2]	C8923	CAP_402	m38a[89C7]	D2501	DIODE_SCHOT_SOT23	m38a[25D8]											
	C7709	CAP_805	m38a[77D1]	C8459	CAP_402	m38a[84D2]	C8924	CAP_402	m38a[89C7]	D2600	DIODE_SCHOT_SOT23	m38a[26D8]											
	C7710	CAP_402	m38a[77D5]	C8460	CAP_402	m38a[84D2]	C8925	CAP_402	m38a[89C7]	D2601	DIODE_SCHOT_SOT23	m38a[26C8]											
	C7711	CAP_402	m38a[77D5]	C8461	CAP_402	m38a[84D2]	C8926	CAP_402	m38a[89C6]	D4600	DIODE_SMC	m38a[46D5]											
	C7712	CAP_402	m38a[77D4]	C8462	CAP_402	m38a[84D2]	C8931	CAP_402	m38a[89C7]	D4690	ZENER_SOT23	m38a[46A6]											
	C7750	CAP_402	m38a[77A4]	C8463	CAP_402	m38a[84C2]	C8933	CAP_402	m38a[89C6]	D4700	DIODE_SCHOT_3P_A_SC-	m38a[47C4]											
	C7751	CAP_805	m38a[77B5]	C8464	CAP_402	m38a[84C2]	C8950	CAP_805	m38a[89D4]	D4701	DIODE_SCHOT_3P_A_SC-	m38a[47B4]											
	C7752	CAP_805	m38a[77B5]	C8465	CAP_402	m38a[84C2]	C8951	CAP_402	m38a[89D4]	D4702	DIODE_SCHOT_3P_A_SC-	m38a[47A4]											
	C7753	CAP_402	m38a[77B6]	C8466	CAP_402	m38a[84C2]	C8952	CAP_402	m38a[89D4]	D6500	DIODE_SOT23	m38a[65C4]											
A	C7754	CAP_402	m38a[77B6]	C8467	CAP_402	m38a[84C2]	C8953	CAP_402	m38a[89D3]	D6501	DIODE_SCHOT_SMB	m38a[65B4]	A										
	C7755	CAP_805	m38a[77B4]	C8468	CAP_402	m38a[84C2]	C8954	CAP_402	m38a[89D3]	D6502	DIODE_SCHOT_SMB	m38a[65C3]											
	C7756	CAP_805	m38a[77B3]	C8469	CAP_402	m38a[84C2]	C8960	CAP_402	m38a[89D3]	D6503	DIODE_SCHOT_SMB	m38a[65B4]											
	C7757	CAP_402	m38a[77A7]	C8470	CAP_402	m38a[84C2]	C8965	CAP_402	m38a[89D3]	D6504	DIODE_SCHOT_SMB	m38a[65C3]											
	C7797	CAP_402	m38a[77B4]	C8471	CAP_402	m38a[84C2]	C8970	CAP_805	m38a[89C5]	DP4610	DIODE_DUAL_6P_SOT-36	m38a[46D4 46D3]											
	C7798	CAP_603	m38a[77B7]	C8472	CAP_402	m38a[84C2]	C8971	CAP_402	m38a[89C4]	DP4611	DIODE_DUAL_6P_SOT-36	m38a[46C4 46C3]											
	C7799	CAP_402	m38a[77A3]	C8473	CAP_402	m38a[84C2]	C8972	CAP_402	m38a[89C4]	DP4620	DIODE_DUAL_6P_SOT-36	m38a[46B4 46B3]											
	C7800	CAP_1210	m38a[78C3]	C8474	CAP_402	m38a[84C2]	C8973	CAP_402	m38a[89C4]	DP4621	DIODE_DUAL_6P_SOT-36	m38a[46A4 46A3]											
	C7801	CAP_P_SM-LF	m38a[78C4]	C8475	CAP_402	m38a[84B2]	C8974	CAP_402	m38a[89C4]	DZ4700	DIODE_SCHOT_POWERDI-	m38a[47C8]											
	C7802	CAP_603	m38a[78C6]	C8476	CAP_402	m38a[84B2]	C8975	CAP_402	m38a[89C3]	DZ6800	DIODE_SCHOT_POWERDI-	m38a[68A4]											

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8				7				6				5				4				3				2				1			
D	J7301	CON_M7RT_S2MT_SM_M-R	m38a[7301]	T-SM				L9702	FILTER_4P_2012H	m38a[97C7]		PP673	PROBEPOINT_SM	m38a[5C6]		PP9016	PROBEPOINT_SM	m38a[5A4]		D											
	J7303	CON_F9ANG_S4MT_TH1_F	m38a[73B3]	-ANG-TH				L9703	FILTER_4P_SM-LF	m38a[97C7]		PP674	PROBEPOINT_SM	m38a[5C6]		PP9020	PROBEPOINT_SM	m38a[5A4]													
	J9401	CON_M4ST_S_SM_M-ST-S	m38a[94C2]	M				L9710	IND_SM-1	m38a[97D5]		PP675	PROBEPOINT_SM	m38a[5B6]		PP9021	PROBEPOINT_SM	m38a[5A4]													
	J9402	CON_F30ST_D_SM_F-ST-	m38a[94B6]	SM				LED601	LED_2_0X1.25MM-SM	m38a[6A8]		PP676	PROBEPOINT_SM	m38a[5B6]		PP9022	PROBEPOINT_SM	m38a[5A4]													
	J9710	CON_DV1_F32ST_Q2MT_S	m38a[97D5]	M_F-ST-SM4				LED602	LED_2_0X1.25MM-SM	m38a[6A7]		PP677	PROBEPOINT_SM	m38a[5B6]		PP9023	PROBEPOINT_SM	m38a[5A4]													
	JC900	CON_M7ST_SATA_SM_M-S	m38a[38B8]	T-SM				LED603	LED_2_0X1.25MM-SM	m38a[6A6]		PP678	PROBEPOINT_SM	m38a[5B6]		PP9024	PROBEPOINT_SM	m38a[5A4]													
	JC901	CON_F50ST_D2MT_SM_F-	m38a[38D2]	ST-SM				LED3800	LED_2_0X1.25MM-SM	m38a[38B3]		PP679	PROBEPOINT_SM	m38a[5B6]		PP9025	PROBEPOINT_SM	m38a[5A4]													
	JD600	CON_RJ45_10ANG_S3MT_	m38a[43C6]	TH1_F-ANG-TH				LED5950	LED_3X2MM-SM	m38a[60A6]		PP680	PROBEPOINT_SM	m38a[5B6]		PP9026	PROBEPOINT_SM	m38a[5A4]													
	JE000	CON_F6ST_S4MT_TH1_F-	m38a[46C2]	ST-TH				LED6000	LED_MS3W315_ST-SM	m38a[60A6]		PP681	PROBEPOINT_SM	m38a[5B6]		PP9027	PROBEPOINT_SM	m38a[5A4]													
	JE001	CON_F6ST_S4MT_TH1_F-	m38a[46B2]	ST-TH				LED7900	LED_2_0X1.25MM-SM	m38a[79A4]		PP682	PROBEPOINT_SM	m38a[5B6]		PP9028	PROBEPOINT_SM	m38a[5A4]													
C	JE310	CON_F4ST_USB_S3MT_TH	m38a[47D4]	_F-ST-TH				LED8000	LED_2_0X1.25MM-SM	m38a[80A4]		PP683	PROBEPOINT_SM	m38a[5B6]		PP9029	PROBEPOINT_SM	m38a[5A4]		C											
	JE320	CON_F4ST_USB_S3MT_TH	m38a[47B4]	_F-ST-TH				LED8100	LED_2_0X1.25MM-SM	m38a[81A4]		PP684	PROBEPOINT_SM	m38a[5B6]		PP9030	PROBEPOINT_SM	m38a[5A4]													
	JE330	CON_F4ST_USB_S3MT_TH	m38a[47A4]	_F-ST-TH				PP5E1	PROBEPOINT_SM	m38a[5B8]		PP685	PROBEPOINT_SM	m38a[5B6]		PP9031	PROBEPOINT_SM	m38a[5A4]													
	JE350	CON_M14RT_S2MT_SM_M-	m38a[47C1]	RT-SM				PP5E2	PROBEPOINT_SM	m38a[5B8]		PP686	PROBEPOINT_SM	m38a[5B6]		PP9032	PROBEPOINT_SM	m38a[5A4]													
	L1934	IND_0603	m38a[19C7]					PP6A0	PROBEPOINT_SM	m38a[5A6]		PP687	PROBEPOINT_SM	m38a[5B6]		PP9033	PROBEPOINT_SM	m38a[5A4]													
	L1936	IND_0603	m38a[19C7]					PP6A1	PROBEPOINT_SM	m38a[5A6]		PP688	PROBEPOINT_SM	m38a[5B6]		PP9034	PROBEPOINT_SM	m38a[5A4]													
	L1970	IND_1210	m38a[19A5]					PP6A2	PROBEPOINT_SM	m38a[5A6]		PP689	PROBEPOINT_SM	m38a[5B6]		PP9035	PROBEPOINT_SM	m38a[5A4]													
	L1975	IND_0805	m38a[19A5]					PP6A3	PROBEPOINT_SM	m38a[5A6]		PP690	PROBEPOINT_SM	m38a[5B6]		PP9036	PROBEPOINT_SM	m38a[5A4]													
	L2500	IND_SM-3	m38a[25B8]					PP6A4	PROBEPOINT_SM	m38a[5A6]		PP691	PROBEPOINT_SM	m38a[5B6]		Q4201	TRA_PBSS5540Z_SOT223	m38a[42C6]													
	L2507	IND_1206	m38a[25A7]					PP6A5	PROBEPOINT_SM	m38a[5A6]		PP692	PROBEPOINT_SM	m38a[5B6]		Q5901	TRA_2N7002DW_SOT-363	m38a[59C7 59C7]													
B	L3301	IND_0402-LF	m38a[33D7]					PP6A6	PROBEPOINT_SM	m38a[5A6]		PP693	PROBEPOINT_SM	m38a[5B6]		Q5910	TRA_SINGLE_M0SFET_PC	m38a[59A4]		B											
	L3302	IND_0402-LF	m38a[33D3]					PP6A7	PROBEPOINT_SM	m38a[5A6]		PP694	PROBEPOINT_SM	m38a[5B6]		Q5911	TRA_2N7002_SOT23-LF	m38a[59A4]													
	L4200	IND_0805	m38a[42D7]					PP6A8	PROBEPOINT_SM	m38a[5A6]		PP695	PROBEPOINT_SM	m38a[5B6]		Q5950	TRA_2N7002_SOT23-LF	m38a[60A7]													
	L4201	IND_0805	m38a[42B7]					PP6A9	PROBEPOINT_SM	m38a[5A6]		PP696	PROBEPOINT_SM	m38a[5B6]		Q5951	TRA_2N7002_SOT23-LF	m38a[60B7]													
	L4300	IND_SM	m38a[43D7]					PP6B0	PROBEPOINT_SM	m38a[5A6]		PP697	PROBEPOINT_SM	m38a[5B6]		Q5952	TRA_2N3906_SOT23-LF	m38a[60B6]													
	L4409	IND_0402	m38a[44D6]					PP6B1	PROBEPOINT_SM	m38a[5A6]		PP698	PROBEPOINT_SM	m38a[5B6]		Q6500	TRA_NTHSS443T1_1206A	m38a[65D4]													
	L4610	IND_1206-LF	m38a[46D2]					PP6B2	PROBEPOINT_SM	m38a[5A6]		PP699	PROBEPOINT_SM	m38a[5B6]		Q6502	TRA_2N7002_SOT23-LF	m38a[65D6]													
	L4620	IND_1206-LF	m38a[46B2]					PP6B3	PROBEPOINT_SM	m38a[5A6]		PP700	TP_SM-TP50-TOP	m38a[5D3]		Q6503	TRA_NTHSS443T1_1206A	m38a[65B4]													
	L4690	IND_SM-1	m38a[46A6]					PP6B4	PROBEPOINT_SM	m38a[5A6]		PP701	TP_SM-TP50-TOP	m38a[5D3]		Q6505	TRA_2N7002_SOT23-LF	m38a[65B6]													
	L4710	IND_SM	m38a[47D5]					PP6B5	PROBEPOINT_SM	m38a[5A6]		PP702	TP_SM-TP50-TOP	m38a[5D3]		Q6600	TRA_NTHSS443T1_1206A	m38a[66D4]													
A	L4712	FILTER_4P_2012	m38a[47C5]					PP6B6	PROBEPOINT_SM	m38a[5A6]		PP703	TP_SM-TP50-TOP	m38a[5D3]		Q6602	TRA_2N7002_SOT23-LF	m38a[66C5]		A											
	L4720	IND_SM	m38a[47C5]					PP6B7	PROBEPOINT_SM	m38a[5A6]		PP704	TP_SM-TP50-TOP	m38a[5D3]		Q7200	TRA_2N7002DW_SOT-363	m38a[72B6 72B7]													
	L4722	FILTER_4P_2012	m38a[47B5]					PP6B8	PROBEPOINT_SM	m38a[5A6]		PP705	TP_SM-TP50-TOP	m38a[5D3]		Q7400	TRA_2N7002DW_SOT-363	m38a[74B3 74B3]													
	L4730	IND_SM	m38a[47B5]					PP6B9	PROBEPOINT_SM	m38a[5A6]		PP706	TP_SM-TP50-TOP	m38a[5D3]		Q7401	TRA_2N7002_SOT23-LF	m38a[74D5]													
	L4732	FILTER_4P_2012	m38a[47A5]					PP6C0	PROBEPOINT_SM	m38a[5A6]		PP707	TP_SM-TP50-TOP	m38a[5D3]		Q7402	TRA_2N7002DW_SOT-363	m38a[74B2 74B2]													
	L4740	IND_SM	m38a[47D2]					PP6C1	PROBEPOINT_SM	m38a[5A6]		PP708	TP_SM-TP50-TOP	m38a[5D3]		Q7500	TRA_HAT2160H_LFPAK	m38a[75D3]													
	L4742	FILTER_4P_2012	m38a[47C2]					PP6C2	PROBEPOINT_SM	m38a[5A6]		PP709	TP_SM-TP50-TOP	m38a[5D3]		Q7501	TRA_HAT2165H_LFPAK	m38a[75D3]													
	L4752	FILTER_4P_2012	m38a[47B2]					PP6C3	PROBEPOINT_SM	m38a[5A6]		PP710	TP_SM-TP50-TOP	m38a[5D3]		Q7502	TRA_HAT2160H_LFPAK	m38a[75C3]													
	L6000	IND_0402-LF	m38a[60A5]					PP6C4	PROBEPOINT_SM	m38a[5C8]		PP711	TP_SM-TP50-TOP	m38a[5D3]		Q7503	TRA_HAT2165H_LFPAK	m38a[75B3]													
	L6001	IND_0402-LF	m38a[60D6]					PP6C5	PROBEPOINT_SM	m38a[5C8]		PP712	TP_SM-TP50-TOP	m38a[5D3]		Q7504	TRA_HAT2165H_LFPAK	m38a[75D3]													
	L7200	IND_SM-1	m38a[72D6]					PP6C6	PROBEPOINT_SM	m38a[5C8]		PP713	TP_SM-TP50-TOP	m38a[5D3]		Q7505	TRA_HAT2165H_LFPAK	m38a[75B3]													
	L7201	IND_0603-LF	m38a[72C2]					PP6C7	PROBEPOINT_SM	m38a[5C8]		PP714	TP_SM-TP50-TOP	m38a[5D3]		Q7570	TRA_HAT2160H_LFPAK	m38a[75D2]													
	L7202	IND_0603-LF	m38a[72C2]					PP6C8	PROBEPOINT_SM	m38a[5C8]		PP715	TP_SM-TP50-TOP	m38a[5D3]		Q7572	TRA_HAT2160H_LFPAK	m38a[75C3]													
	L7203	IND_0603-LF	m38a[72C3]					PP6D0	PROBEPOINT_SM	m38a[5C8]		PP716	TP_SM-TP50-TOP	m38a[5D3]		Q7701	TRA_SI3446DV_TSOP-LF	m38a[77A3]													
	L7204	IND_0603-LF	m38a[72C3]					PP6D1	PROBEPOINT_SM	m38a[5C8]		PP717	TP_SM-TP50-TOP	m38a[5D3]		Q7703	TRA_2N7002DW_SOT-363	m38a[77C7 77D7]													
	L7205	IND_																													

8			7			6			5			4			3			2			1		
D	R1104	RES_402	m38a[11B5]	R2719	RES_402	m38a[27B7]	R4356	RES_402	m38a[43C7]	R6504	RES_805	m38a[65C5]	D										
	R1106	RES_402	m38a[11A3]	R2750	RES_402	m38a[27C7]	R4357	RES_402	m38a[43B7]	R6505	RES_805	m38a[65D5]											
	R1210	RES_402	m38a[12C3]	R2751	RES_402	m38a[27C7]	R4402	RES_402	m38a[44B3]	R6506	RES_402	m38a[65D6]											
	R1211	RES_402	m38a[12C3]	R2800	RES_402	m38a[28C7]	R4403	RES_402	m38a[44B5]	R6507	RES_805	m38a[65B5]											
	R1220	RES_402	m38a[12B7]	R2801	RES_402	m38a[28C7]	R4407	RES_402	m38a[44A7]	R6508	RES_805	m38a[65B5]											
	R1221	RES_402	m38a[12B7]	R2900	RES_402	m38a[29A3]	R4409	RES_402	m38a[44B3]	R6509	RES_805	m38a[65B5]											
	R1225	RES_402	m38a[12B7]	R3001	RES_402	m38a[30D4]	R4410	RES_402	m38a[44D2]	R6510	RES_1206	m38a[65B6]											
	R1226	RES_402	m38a[12B7]	R3009	RES_402	m38a[30D4]	R4411	RES_402	m38a[44D6]	R6511	RES_402	m38a[65B6]											
	R1230	RES_402	m38a[12A7]	R3011	RES_402	m38a[30C4]	R4412	RES_402	m38a[44C1]	R6512	RES_805	m38a[65C5]											
	R1231	RES_402	m38a[12A7]	R3025	RES_402	m38a[30C4]	R4413	RES_402	m38a[44C3]	R6513	RES_805	m38a[65B5]											
C	R1235	RES_402	m38a[12A7]	R3035	RES_402	m38a[30B4]	R4414	RES_402	m38a[44C3]	R6514	RES_805	m38a[65B4]	C										
	R1236	RES_402	m38a[12A7]	R3100	RES_402	m38a[31C5]	R4416	RES_402	m38a[44A5]	R6515	RES_805	m38a[65C4]											
	R1310	RES_402	m38a[13D3]	R3101	RES_402	m38a[31C5]	R4450	RES_402	m38a[44B3]	R6598	RES_402	m38a[65A7]											
	R1410	RES_402	m38a[14C3]	R3300	RES_402	m38a[33B6]	R4451	RES_402	m38a[44B3]	R6599	RES_402	m38a[65C7]											
	R1411	RES_402	m38a[14C3]	R3301	RES_402	m38a[33B7]	R4452	RES_402	m38a[44B3]	R6600	RES_402	m38a[66C7]											
	R1420	RES_402	m38a[14B6]	R3302	RES_402	m38a[33D4]	R4453	RES_402	m38a[44B3]	R6601	RES_805	m38a[66D5]											
	R1430	RES_402	m38a[14B6]	R3303	RES_402	m38a[33C4]	R4454	RES_402	m38a[44B3]	R6602	RES_805	m38a[66C4]											
	R1440	RES_402	m38a[14D6]	R3304	RES_402	m38a[33C7]	R4455	RES_402	m38a[44B3]	R6603	RES_805	m38a[66D5]											
	R1441	RES_402	m38a[14D6]	R3400	RES_402	m38a[34C5]	R4650	RES_402	m38a[46C8]	R6604	RES_1206	m38a[66D5]											
	R1975	RES_402	m38a[19A4]	R3401	RES_402	m38a[34B5]	R4651	RES_402	m38a[46C7]	R6605	RES_402	m38a[66D6]											
B	R1980	RES_402	m38a[19B7]	R3402	RES_402	m38a[34B5]	R4652	RES_402	m38a[46B8]	R6606	RES_805	m38a[66C5]	B										
	R1981	RES_402	m38a[19B7]	R3403	RES_402	m38a[34C5]	R4653	RES_402	m38a[46B7]	R6607	RES_805	m38a[66C3]											
	R1982	RES_402	m38a[19B8]	R3404	RES_402	m38a[34C5]	R4654	RES_402	m38a[46B7]	R6697	RES_402	m38a[66C8]											
	R1983	RES_402	m38a[19B8]	R3405	RES_402	m38a[34C5]	R4656	RES_2512-1	m38a[46D6]	R6700	RES_402	m38a[67C6]											
	R2058	RES_402	m38a[20B4]	R3406	RES_402	m38a[34C5]	R4657	RES_805	m38a[46D6]	R6702	RES_402	m38a[67C4]											
	R2059	RES_402	m38a[20B4]	R3407	RES_402	m38a[34B5]	R4660	RES_402	m38a[46C7]	R6703	RES_402	m38a[67C4]											
	R2060	RES_402	m38a[20A4]	R3408	RES_402	m38a[34B5]	R4661	RES_402	m38a[46C7]	R6704	RES_805	m38a[67C2]											
	R2075	RES_402	m38a[20C7]	R3409	RES_402	m38a[34B5]	R4662	RES_402	m38a[46B7]	R6705	RES_805	m38a[67C3]											
	R2077	RES_402	m38a[20B7]	R3410	RES_402	m38a[34B5]	R4663	RES_402	m38a[46B7]	R6706	RES_402	m38a[67B6]											
	R2079	RES_402	m38a[20B7]	R3411	RES_402	m38a[34B5]	R4664	RES_402	m38a[46B7]	R6709	RES_402	m38a[67B6]											
A	R2085	RES_402	m38a[20C4]	R3412	RES_402	m38a[34B5]	R4690	RES_402	m38a[46A7]	R6800	RES_402	m38a[68C6]	A										
	R2100	RES_402	m38a[21C3]	R3413	RES_402	m38a[34B5]	R4712	RES_402	m38a[47C5]	R6802	RES_402	m38a[68A5]											
	R2101	RES_402	m38a[21C4]	R3414	RES_402	m38a[34B5]	R4713	RES_402	m38a[47C5]	R6807	RES_402	m38a[68D7]											
	R2105	RES_402	m38a[21D6]	R3415	RES_402	m38a[34B5]	R4722	RES_402	m38a[47B5]	R6808	RES_402	m38a[68D3]											
	R2107	RES_402	m38a[21C2]	R3416	RES_402	m38a[34B5]	R4723	RES_402	m38a[47B5]	R6810	RES_402	m38a[68A3]											
	R2108	RES_402	m38a[21C2]	R3417	RES_402	m38a[34B5]	R4732	RES_402	m38a[47A5]	R6811	RES_402	m38a[68A3]											
	R2110	RES_402	m38a[21C2]	R3418	RES_402	m38a[34B5]	R4733	RES_402	m38a[47A5]	R6815	RES_402	m38a[68B7]											
	R2194	RES_402	m38a[21D4]	R3419	RES_402	m38a[34A5]	R4742	RES_402	m38a[47C2]	R7208	RES_402	m38a[72A4]											
	R2195	RES_402	m38a[21C6]	R3420	RES_402	m38a[34A5]	R4743	RES_402	m38a[47C2]	R7212	RES_402	m38a[72B8]											
	R2196	RES_402	m38a[21C6]	R3421	RES_402	m38a[34A5]	R4746	RES_805	m38a[47D2]	R7213	RES_402	m38a[72B7]											

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