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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.																?		?	?
D	Page	Circuits				ENG		Block				CROSS REFERENCES ACCURATE? YES PART TABLES ACCURATE? YES							
	1	Table of Contents				KG													
	2	Block Diagram				KG													
	3	Microprocessor				KG													
	4	L3 CACHE & BYPASS				KG		Processor											
	5	PANGEA PROCESSOR IF				KG													
	6	PANGEA SDRAM IF & SDRAM DIMMS				KG		Sys Memory											
C	7	SYSTEM CLOCKS, TERMS, CKE LATCH				KG		Clocks											
	8	PANGEA AGP INTERFACE, SYSTEM ROM				KG,LL													
	9	VIDEO ASIC SEC 1 (AGP & VIDEO OUT)				LL		AGP,											
	10	VIDEO ASIC SEC 2 (FRAME BUFFER IF)				LL		Graphics											
	11	GRAPHICS SDRAMS				LL		& ROM											
	12	VIDEO ASIC SEC 3 (UNUSED CRUD!)				LL													
	13	PANGEA ETHERNET, FIREWIRE, PWR/GNDS				RM													
B	14	PANGEA BYPASS				KG													
	15	Ethernet PHY				RM		Enet, FW											
	16	Firewire PHY, Termination				LL													
	17	PANGEA ATA, & PCMCIA BUSSES				RM													
	18	PANGEA SER/AUD/USB, BOOTSTRAP PINS				RM		HD,Cdbus											
	19	USB CONN & PWR				RM		Modem,USB											
	20	MLB Pull-ups				ALL		PUs											
A	21	L3 VOLTAGE REGULATORS, BOOTBANGER				KK													
	22	Voltage Regulators				KK		Power											
	23	Power Manager Unit				KK													
	24	ESP, LA CONNECTORS, AND CPU BYPASS				KG													
	25	Internal & External Video Conns				LL		CONNECTORS											
	26	HD/CD/MODEM/PCMCIA/KITCHENSINK CONN'S				RM													
	27	DC/DC CONVERTER (5V AND 3.3V)				KK		POWER STUFF											
A	28	MORE POWER SUPPLY STUFF				KK													
	29	TUMBLER AUDIO, CONTROL & D/A				LH													
	30	TUMBLER AUDIO, HEADPHONE DRIVER				LH		Audio											
	31	TUMBLER AUDIO, INTERNAL MIC AND CALL PROGRESS				LH													
	32	TUMBLER AUDIO, POWER AMPLIFIER				LH													
	33	HOLES AND SLOTS, AND EMC TABLES				KG													
	34-40	CONSTRAINT TABLES				ALL													
41-44		Part Tables				RM													
8		7		6		5		4		3		2		1					

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

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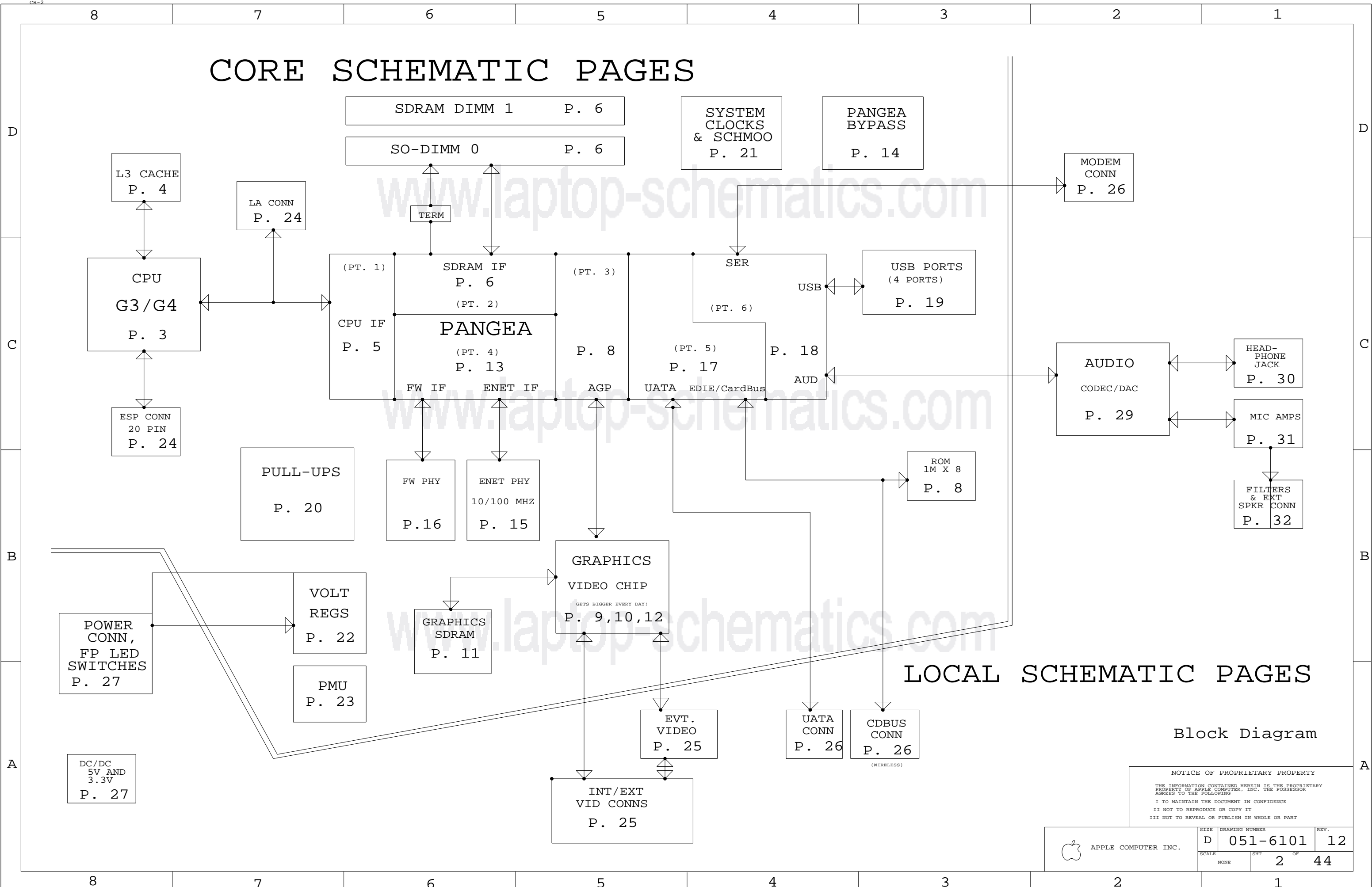
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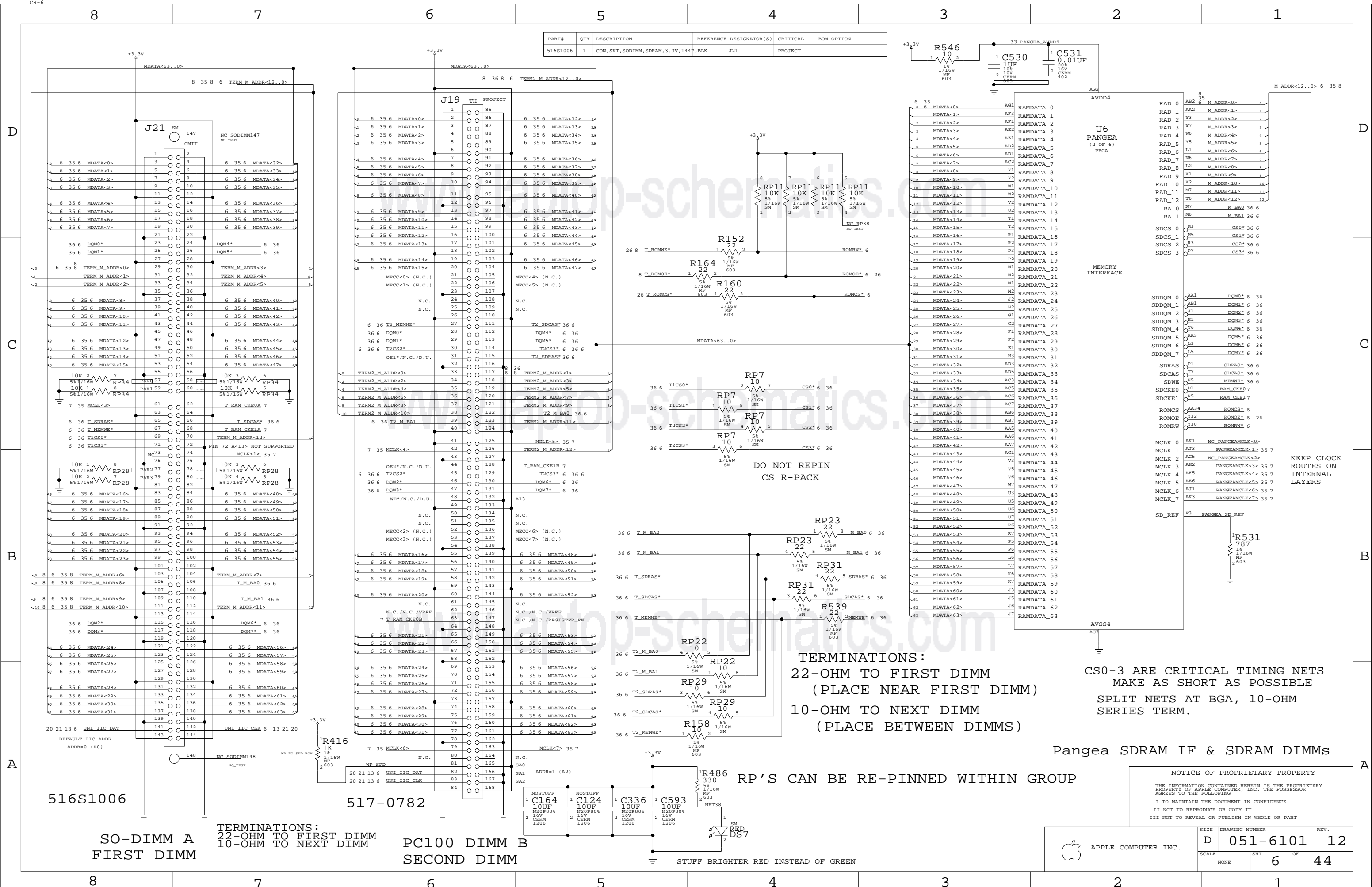
CROSS REFERENCES ACCURATE? YES
PART TABLES ACCURATE? YES

DVT
AUG 30, 2001

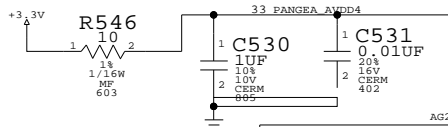
POWER RAIL DEFINITIONS			
	RUN	SLEEP	SHUTDOWN
+5V	ON	ON	OFF
+5VSD	ON	OFF	OFF
+12V_MAIN	ON	ON	ON
+12VSD	ON	OFF	OFF
+3.3V	ON	ON	OFF

<div>DIMENSIONS ARE IN MILLIMETERS</div> <div>XX : _____</div> <div>X.XX : _____</div> <div>X.XXX : _____</div> <div>ANGLES : _____</div> <div>DO NOT SCALE DRAWING</div> <div></div> <div>THIRD ANGLE PROJECTION</div>	METRIC		Apple Computer Inc.	
	DRAPTER	DESIGN CK	NOTICE OF PROPRIETARY PROPERTY	
	ENG APPD	MFG APPD	THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING	
	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	
<div></div> <div>THIRD ANGLE PROJECTION</div>	RELEASE	SCALE	TITLE	
	MATERIAL/FINISH NOTED AS APPLICABLE	SIZE D	SCHEM, PCBA, P80	
			DRAWING NUMBER	REV.
			051-6101	12
SHT 1 OF 44				





PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
516S1006	1	CON,SKT,SODIMM,SDRAM,3.3V,144P,BLK	J21	PROJECT	

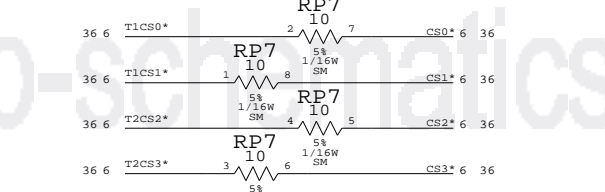
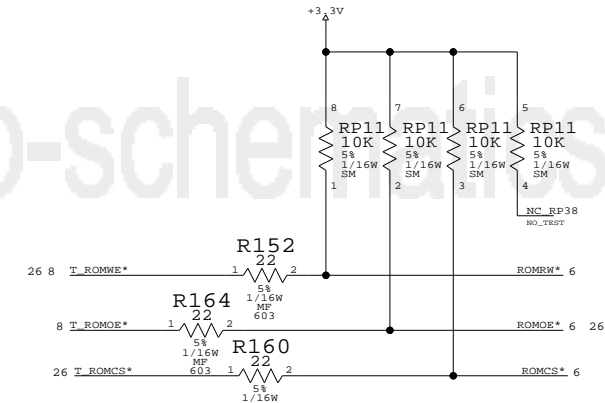


U6
PANGAEA
(2 OF 6)
PBGA

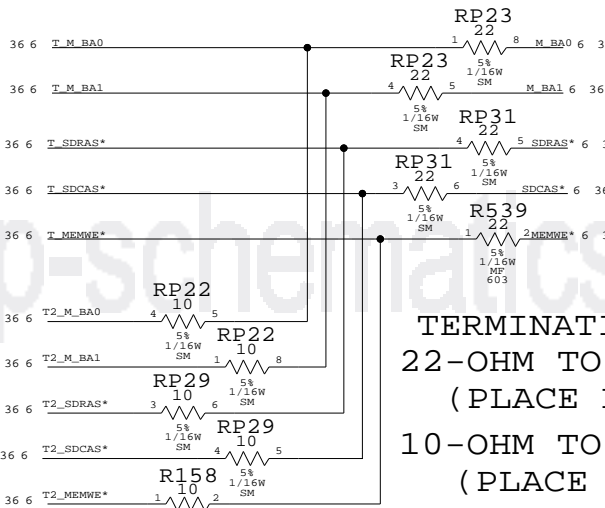
MEMORY
INTERFACE

RAD_0	AB2	M_ADDR<0>	8
RAD_1	AA2	M_ADDR<1>	9
RAD_2	Y3	M_ADDR<2>	2
RAD_3	Y7	M_ADDR<3>	3
RAD_4	W6	M_ADDR<4>	4
RAD_5	Y5	M_ADDR<5>	5
RAD_6	L1	M_ADDR<6>	6
RAD_7	N6	M_ADDR<7>	7
RAD_8	L2	M_ADDR<8>	8
RAD_9	K1	M_ADDR<9>	9
RAD_10	K2	M_ADDR<10>	10
RAD_11	M7	M_ADDR<11>	11
RAD_12	T5	M_ADDR<12>	12
BA_0	N7	M_BA0	36 6
BA_1	M6	M_BA1	36 6
SDCS_0	M3	CS0*	36 6
SDCS_1	M5	CS1*	36 6
SDCS_2	E3	CS2*	36 6
SDCS_3	C7	CS3*	36 6
SDDQM_0	AB1	DQM0*	6 36
SDDQM_1	AB1	DQM1*	6 36
SDDQM_2	C1	DQM2*	6 36
SDDQM_3	H1	DQM3*	6 36
SDDQM_4	Y6	DQM4*	6 36
SDDQM_5	AA3	DQM5*	6 36
SDDQM_6	L3	DQM6*	6 36
SDDQM_7	L5	DQM7*	6 36
SDRAS	C1	SDRAS*	36 6
SDCAS	C7	SDCAS*	36 6
SDWE	H5	MEMWE*	36 6
SDCKE0	D1	RAM_CKE0	7
SDCKE1	R5	RAM_CKE1	7
ROMCS	AA34	ROMCS*	6
ROMOE	Y32	ROMOE*	6 26
ROMRW	Y30	ROMRW*	6
MCLK_0	AK1	NC_PANGAEMCLK<0>	
MCLK_1	AJ3	PANGAEMCLK<1>	35 7
MCLK_2	AG5	NC_PANGAEMCLK<2>	
MCLK_3	AH2	PANGAEMCLK<3>	35 7
MCLK_4	AF5	PANGAEMCLK<4>	35 7
MCLK_5	AE6	PANGAEMCLK<5>	35 7
MCLK_6	AJ1	PANGAEMCLK<6>	35 7
MCLK_7	AK3	PANGAEMCLK<7>	35 7
SD_REF	F3	PANGAEA_SD_REF	

KEEP CLOCK
ROUTES ON
INTERNAL
LAYERS



DO NOT REPIN
CS R-PACK



TERMINATIONS:
22-OHM TO FIRST DIMM
(PLACE NEAR FIRST DIMM)
10-OHM TO NEXT DIMM
(PLACE BETWEEN DIMMS)

CS0-3 ARE CRITICAL TIMING NETS
MAKE AS SHORT AS POSSIBLE
SPLIT NETS AT BGA, 10-OHM
SERIES TERM.

Pangea SDRAM IF & SDRAM DIMMS

RP'S CAN BE RE-PINNED WITHIN GROUP

NOTICE OF PROPRIETARY PROPERTY
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PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR
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II NOT TO REPRODUCE OR COPY IT
III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

SIZE	D	DRAWING NUMBER	051-6101	REV.	12
SCALE	NONE	SHT	6	OF	44



APPLE COMPUTER INC.

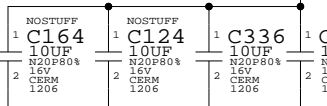
516S1006

SO-DIMM A
FIRST DIMM

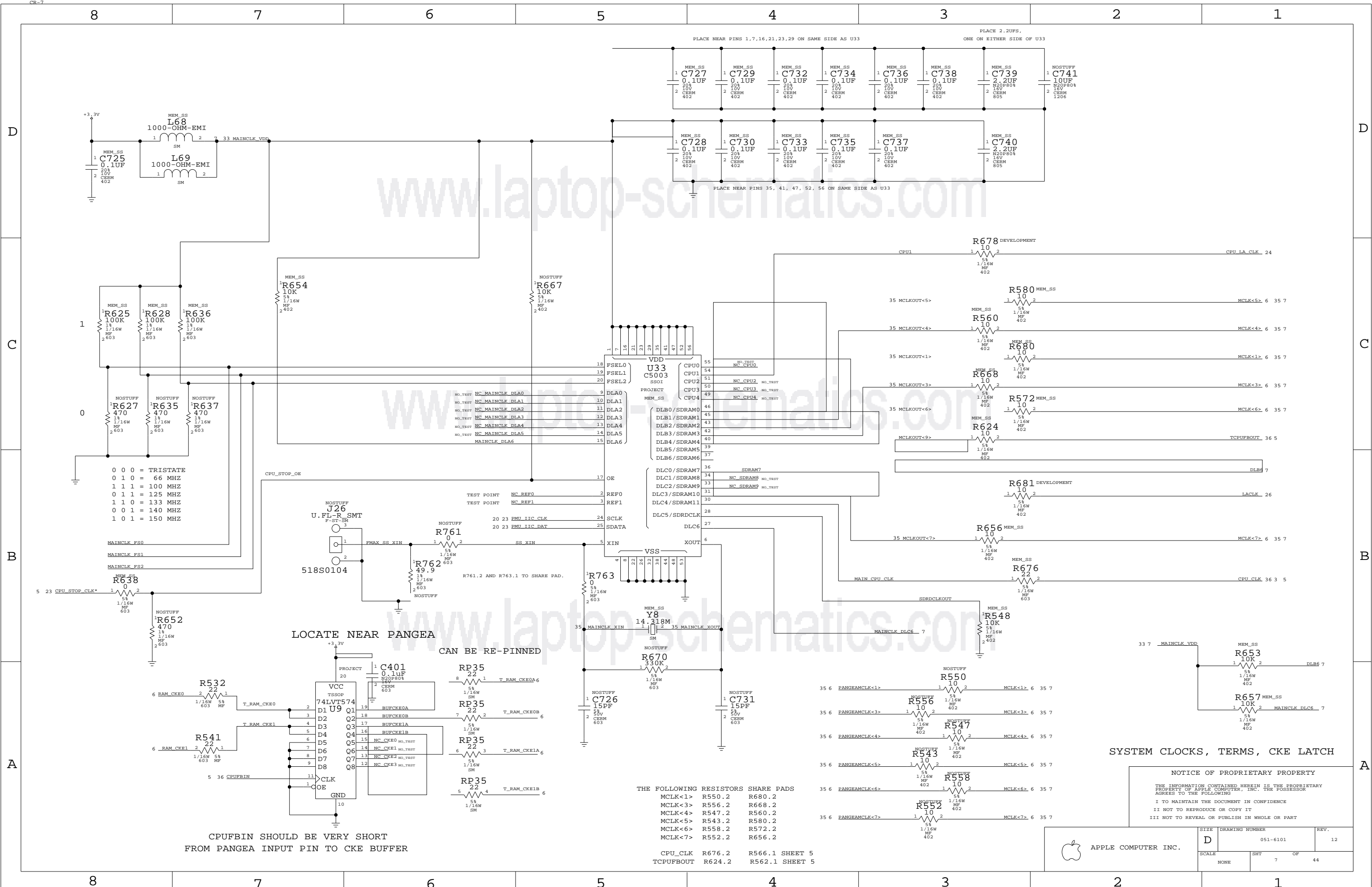
TERMINATIONS:
22-OHM TO FIRST DIMM
10-OHM TO NEXT DIMM

517-0782

PC100 DIMM B
SECOND DIMM



STUFF BRIGHTER RED INSTEAD OF GREEN



THE FOLLOWING RESISTORS SHARE PADS

MCLK<1>	R550.2	R680.2
MCLK<3>	R556.2	R668.2
MCLK<4>	R547.2	R560.2
MCLK<5>	R543.2	R580.2
MCLK<6>	R558.2	R572.2
MCLK<7>	R552.2	R656.2
CPU_CLK	R676.2	R566.1 SHEET 5
TCPUFBOUT	R624.2	R562.1 SHEET 5

NOTICE OF PROPRIETARY PROPERTY

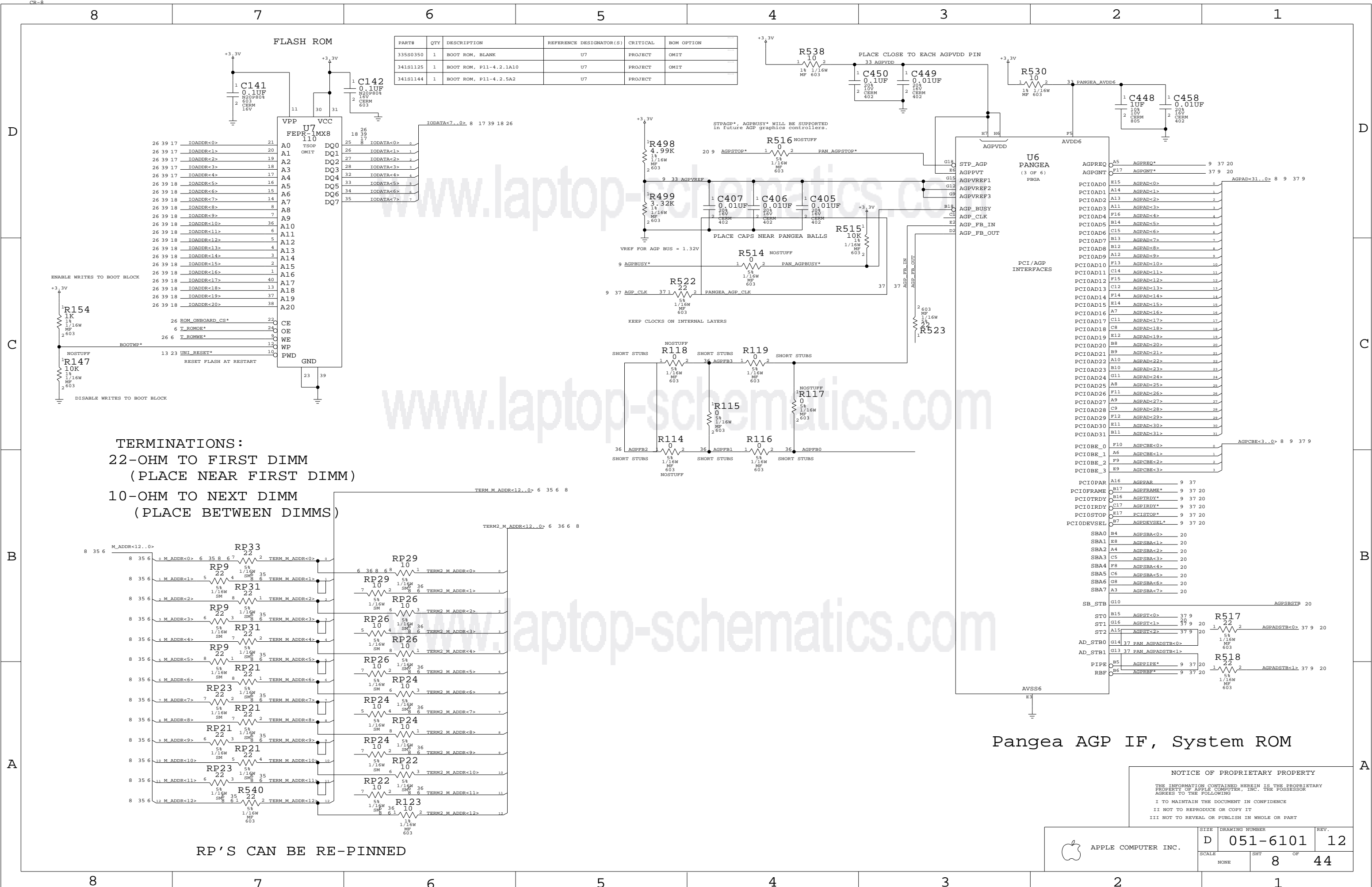
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

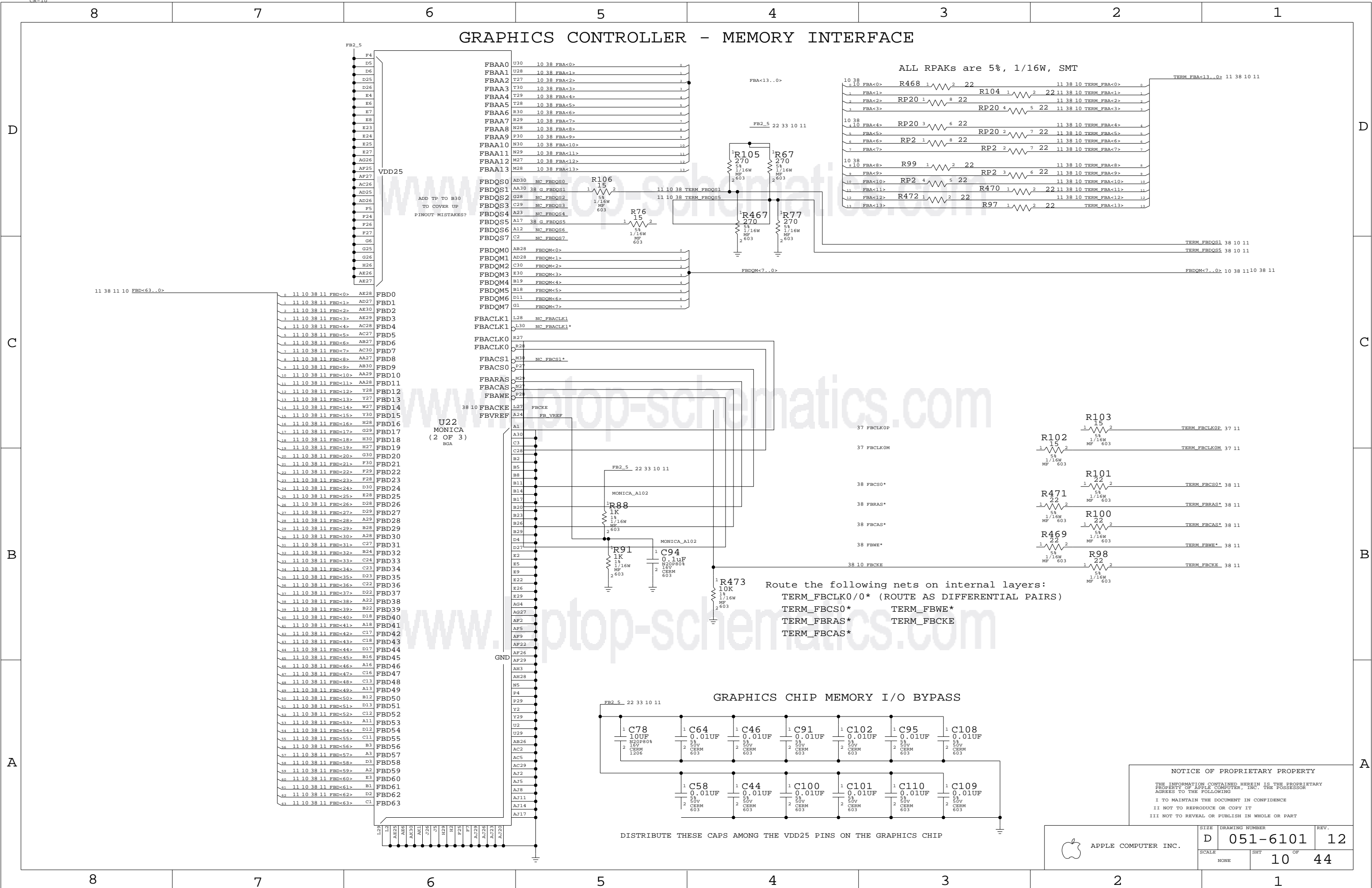
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II NOT TO REPRODUCE OR COPY IT

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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-6101	12
	SCALE	SHT	OF
	NONE	7	44



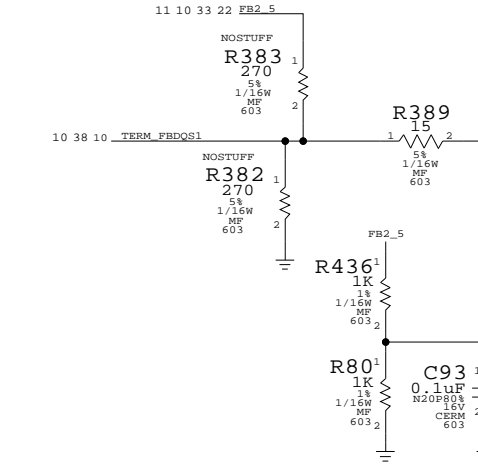


GRAPHICS SDRAMS - 16/32 MB

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS :
333S0055	333S0006	SAMSUNG_SGRAM	U3,U21	2MX32,2.5VCC,183MHZ

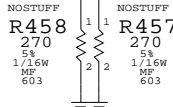
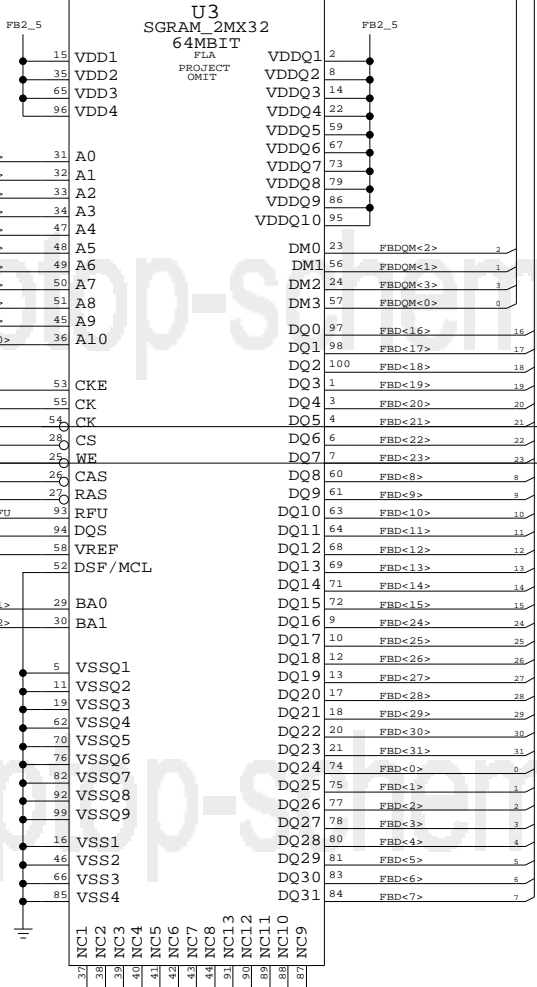
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
333S0075	2	IC,SGRAM,DDR,2MX32,125MHZ,100P	TQFP, NO DLL U3,U21	PROJECT	OMIT
333S0076	2	IC,SGRAM,DDR,2MX32,143MHZ,100P	TQFP, NO DLL U3,U21	PROJECT	OMIT
333S0077	2	IC,SGRAM,DDR,2MX32,166MHZ,100P	TQFP, NO DLL U3,U21	PROJECT	OMIT
333S0003	2	IC,SDRAM,2MX32,DLL,143MHZ,100P	TQFP (SAM) U3,U21	PROJECT	OMIT
333S0004	2	IC,SDRAM,2MX32,DLL,166MHZ,100P	TQFP (SAM) U3,U21	PROJECT	OMIT
333S0005	2	IC,SDRAM,2MX32,2.5VCC,143MHZ,100P	TQFP (M-H) U3,U21	PROJECT	OMIT
333S0006	2	IC,SDRAM,2MX32,2.5VCC,166MHZ,100P	TQFP (M) U3,U21	PROJECT	M-H_SGRAM
333S0006	2	IC,SDRAM,2MX32,DLL,166MHZ,100P	TQFP (SAM) U3,U21	PROJECT	SAMSUNG_SGRAM

10 38 11 10 FBD<63..0>
11 38 10 FBDQM<7..0>
11 10 38 11 10 TERM_FBA<13..0>



10 38 10 TERM_FBCKE
11 10 37 11 10 37 TERM_FBCLKOP
11 10 37 11 10 37 TERM_FBCLKOM

10 38 TERM_FBCS0*
10 38 TERM_FBWE*
10 38 TERM_FBCAS*
10 38 TERM_FBRAS*
10 38 10 TERM_FBDQS5



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SIZE	DRAWING NUMBER	REV.
D	051-6101	12
SCALE	SHT	OF
NONE	11	44

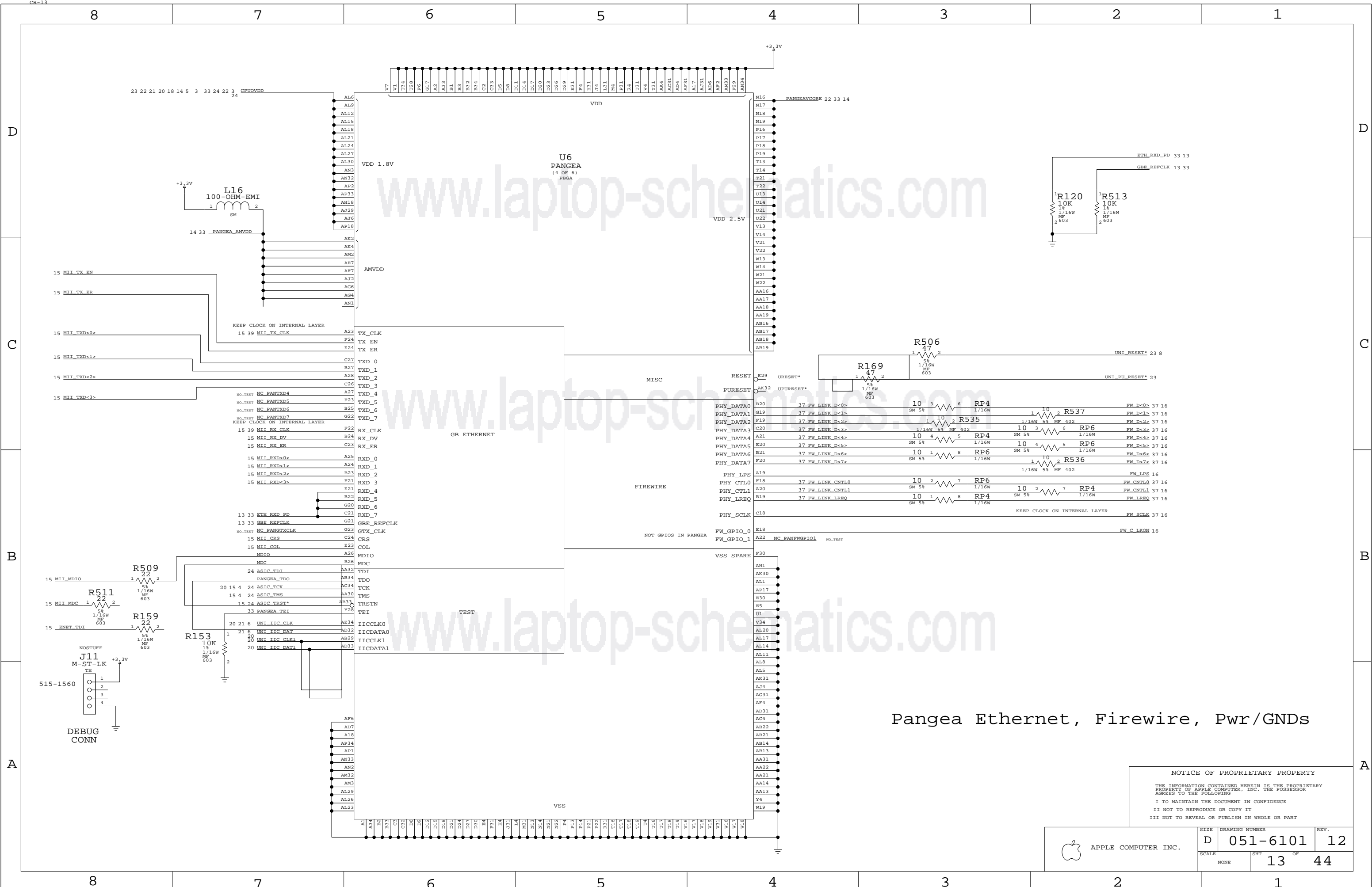
D

CBA

A



SIZE D	DRAWING NUMBER 051-6101	REV. 12
SCALE NONE	SHT 12	OF 44



Pangea Ethernet, Firewire, Pwr/GNDs

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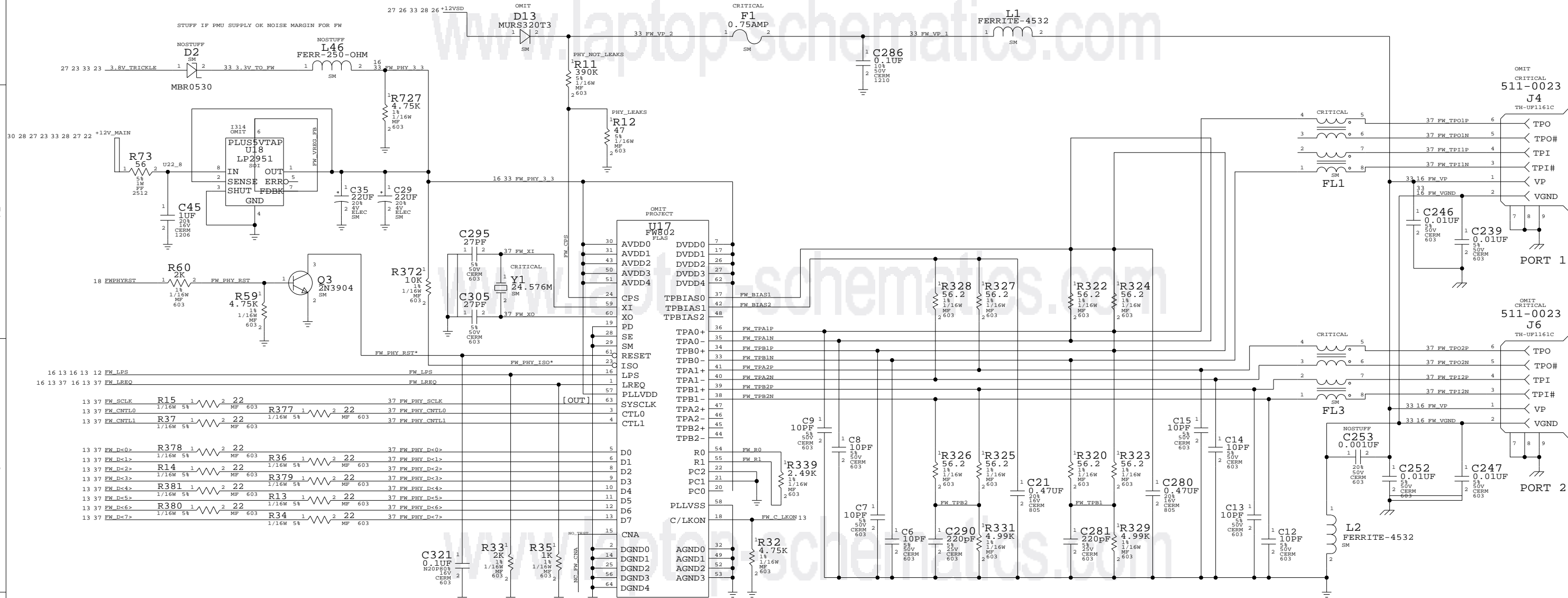
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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-6101	12
SCALE	SHT		OF
	NONE		13 44



PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
338S0018	1	FLAS-64M631-H63,2PORT FW PHY,FW802A	REV A U17	PROJECT	
337S0509	1	FLAS-64M631-H63,2PORT FW PHY,FW802	REV 9 U17	PROJECT	OMIT
371S0058	1	DIODE,FAST RECOVERY,200V,3A,SMD	D13		
353S0094	1	5V FIXED/ADJ VREG, SOI-8	U18	PROJECT	OMIT
353S0275	1	3.3V FIXED/ADJ VREG, SOI-8	U18	PROJECT	
514-0023	2	CONN,RCPT,R/A,1394,NOFLANGES,NMD,6P	J4,J6	CRITICAL	



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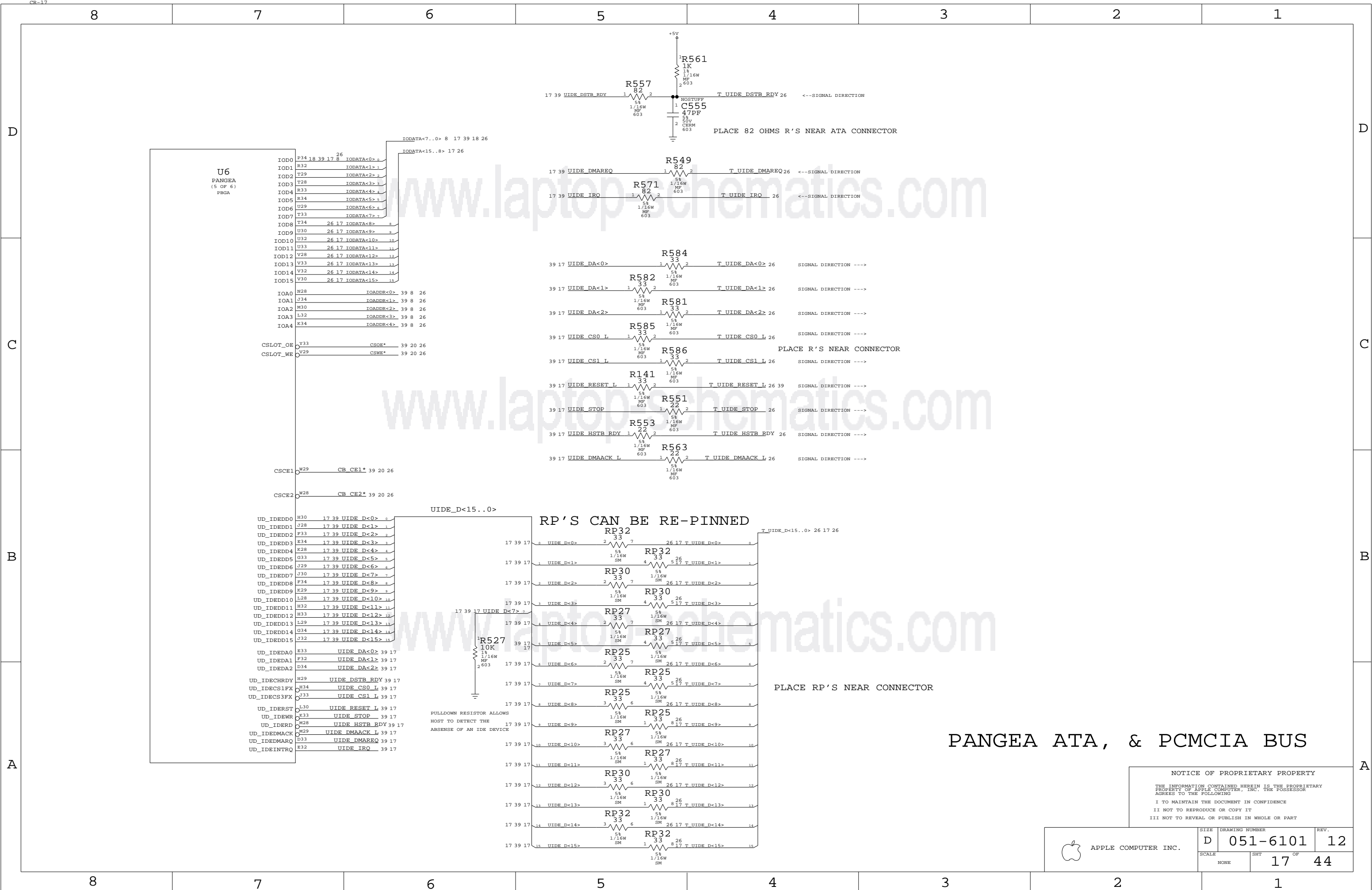
I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

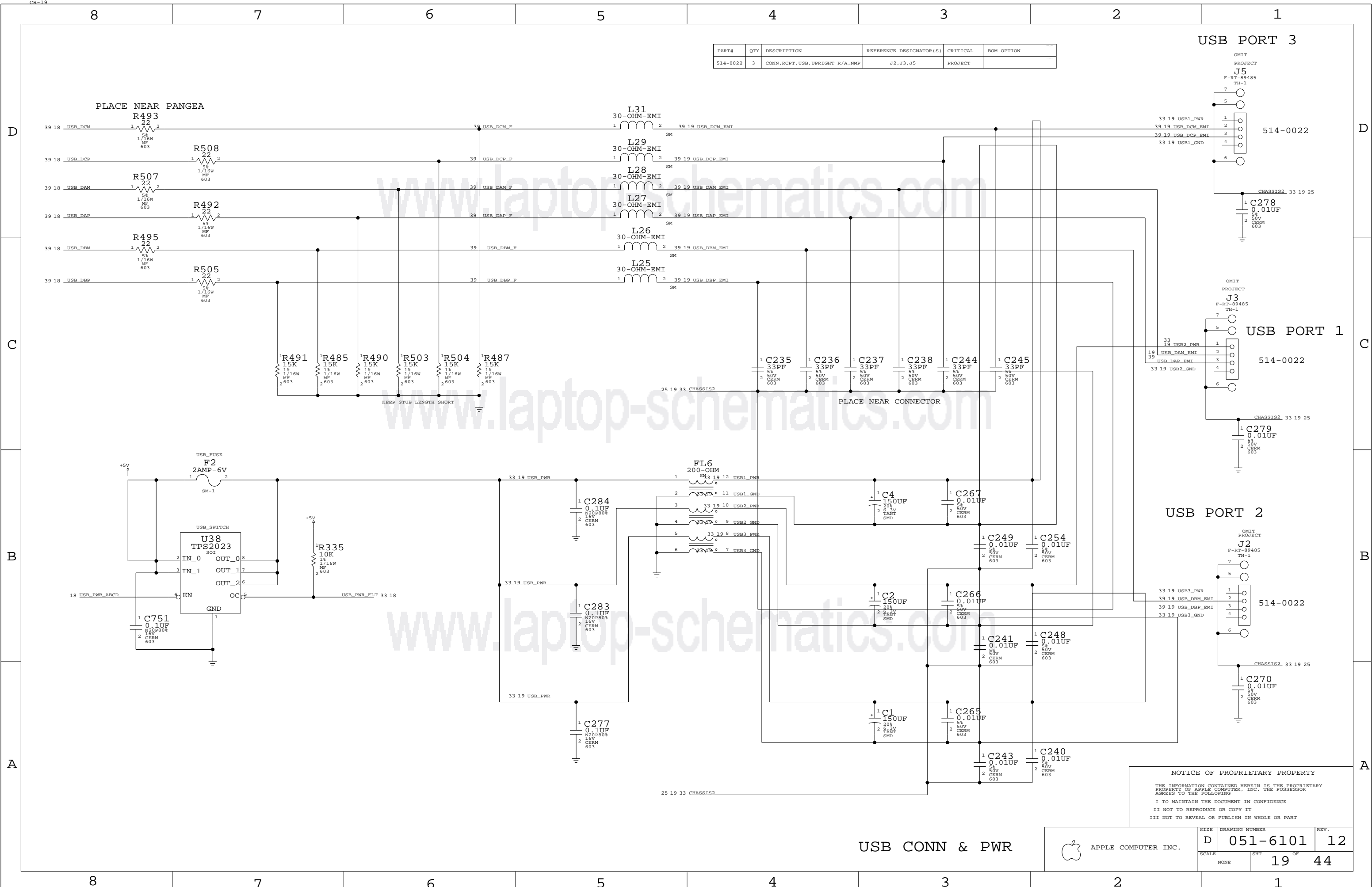
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SIZE	DRAWING NUMBER	REV.
D	051-6101	12
SCALE	SHT	OF
NONE	16	44

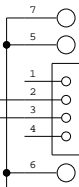




PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
514-0022	3	CONN,RCPT,USB,UPRIGHT R/A,NMP	J2,J3,J5	PROJECT	

USB PORT 3

OMIT
PROJECT
J5
F-RT-89485
TH-1

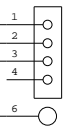


514-0022

C278
0.01UF
5V
CERM
603

OMIT
PROJECT
J3
F-RT-89485
TH-1

USB PORT 1

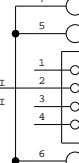


514-0022

C279
0.01UF
5V
CERM
603

USB PORT 2

OMIT
PROJECT
J2
F-RT-89485
TH-1



514-0022

C270
0.01UF
5V
CERM
603

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USB CONN & PWR



APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6101	12
SCALE	SHT	OF
NONE	19	44

R-PACKS CAN BE RE-PINNED



<MODE>	<L>	MSSCSR	Sys	Vgr	Addr	
<MODE>	<L>	<L>	BUS		drive	
L	1	1	777	01	yes	unavail
L	1	1	Max	01	yes	unavail
L	hr	1	777	00	yes	unavail
L	hr	1	Max	00	yes	unavail
hr	hr	0	MB+	01	yes	unavail
hr	hr	0	60x	01	yes	unavail
hr	hr	0	1	Max	yes	unavail
hr	H	0	60x	00	yes	unavail
hr	H	1	777	01	norm	unavail
hr	HR	0	Max	01	norm	unavail
hr	hr	1	777	00	norm	unavail
hr	H	1	Max	00	norm	unavail
H	hr	0	MB+	01	norm	unavail
H	hr	0	60x	01	norm	unavail
H	hr	0	1	Max	norm	unavail
H	H	0	60x	00	norm	unavail

[illegible]

MAIN RAIL, TO PREVENT LEAKAGE INTO UNPOWERED DEVICES

+3.3V

R385
4.75K

21 13 6 UNI IIC CLK

R384
4.75K

21 13 6 UNI IIC DAT

R166
4.75K

13 UNI IIC CLK1

R464
4.75K

13 UNI IIC DAT1

R146
4.75K

29 26 18 KW IIC CLK

R459
4.75K

29 26 18 KW IIC DAT

R214
4.75K

7 23 EMU IIC CLK

R221
4.75K

7 23 EMU IIC DAT

PMU NOT RATED STRONG ENOUGH FOR 1K

The schematic diagram illustrates the MLB Pull-up section of the Apple T2 Security Controller. It features two vertical signal buses, each connected to a +3.3V supply. The left bus contains signals from pin 26 to 37, and the right bus contains signals from pin 2 to 37. Each signal line is terminated with a pull-up resistor to the +3.3V supply. The resistors are labeled with their values (e.g., 10K, 1K, 5K) and the manufacturer (MF 603 or SM). Some signals are marked as 'NO_TEST' or 'NC'. The signals include CB_REG*, CB_IREQ*, CB_WAIT*, SCC_RXDA, SCC_GPIOA*, SCC_TRXCA, NC_RP42PIN, CB_IORD*, CB_IOWR*, CB_CE1*, CB_CE2*, CSOE*, CSWE*, NC_RP10PIN3, NC_RP10PIN4, AGPSBASTB, AGPGNT*, AGPFREQ*, AGPFRAME*, AGPTRDY*, AGPIRDY*, AGPSTOP*, AGPDEVSEL*, AGPADSTB<0>, AGPADSTB<1>, AGPRBF*, AGPIPE*, PCISTOP*, MODEM_RESET*, PMU_REQ*, MODEM_SDOWN, ETHPHYRESETL, NC_RP12_2, MDINT_L, PMU_NMI_IRQ*, PMU_INT, AGP_INTA*, AGPSBA<0> through AGPSBA<7>, AGPST<0> through AGPST<2>, and NC_RP1PIN4.

MLB Pull-ups

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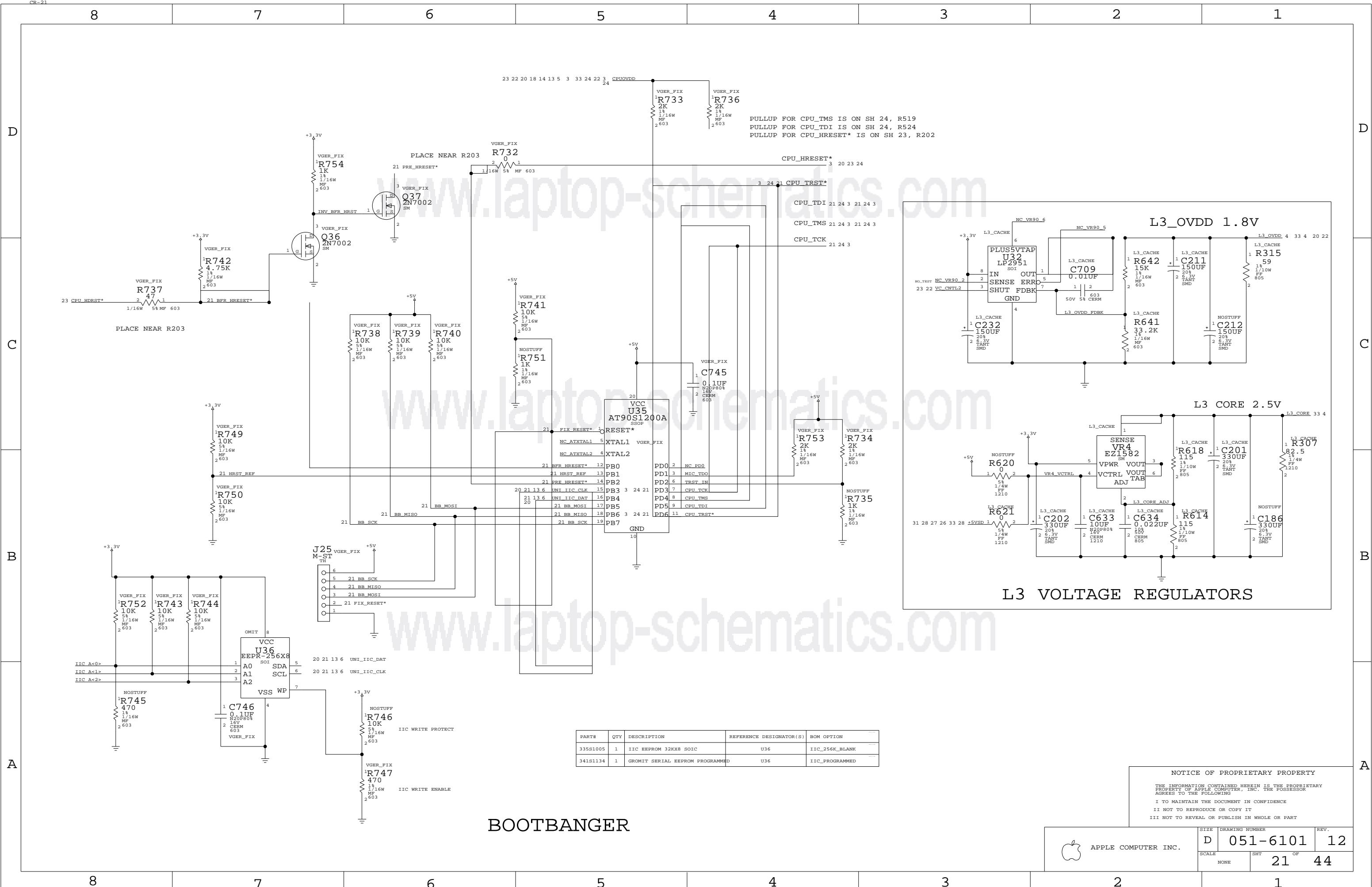
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APPLE COMPUTER INC.

SIZE D	DRAWING NUMBER 051-6101	REV. 12
SCALE NONE	SHT 20	OF 44



PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
335S1005	1	IIC EEPROM 32KX8 SOIC	U36	IIC_256K_BLANK
341S1134	1	GROMIT SERIAL EEPROM PROGRAMMED	U36	IIC_PROGRAMMED

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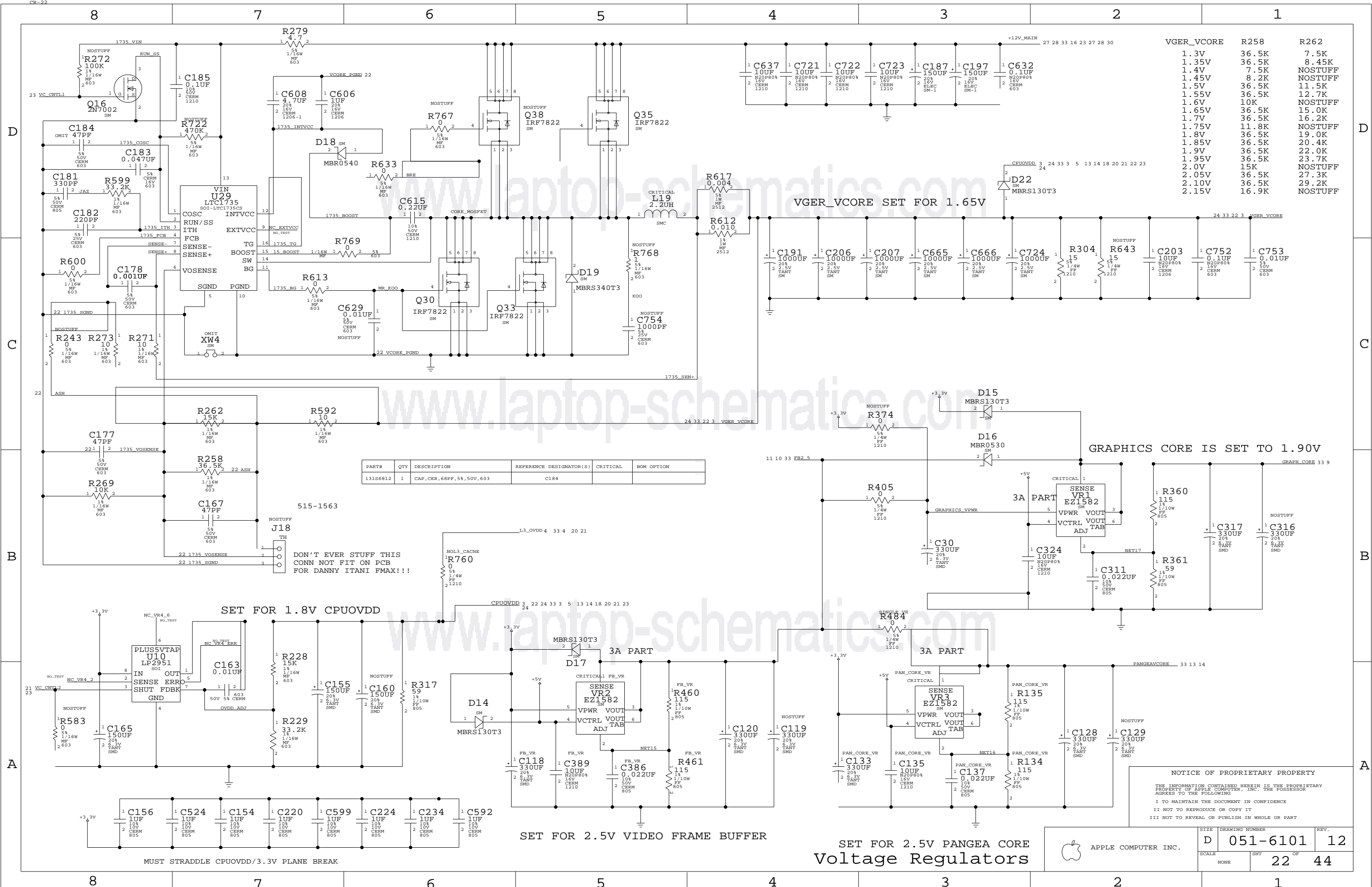
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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-6101	12
SCALE	NONE		SHT
	21		OF 44



PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
131S6812	1	CAP,CER,68PF,5%,50V,603	C184		

VGER_VCORE	R258	R262
1.3V	36.5K	7.5K
1.35V	36.5K	8.45K
1.4V	7.5K	NOSTUFF
1.45V	8.2K	NOSTUFF
1.5V	36.5K	11.5K
1.55V	36.5K	12.7K
1.6V	10K	NOSTUFF
1.65V	36.5K	15.0K
1.7V	36.5K	16.2K
1.75V	11.8K	NOSTUFF
1.8V	36.5K	19.0K
1.85V	36.5K	20.4K
1.9V	36.5K	22.0K
1.95V	36.5K	23.7K
2.0V	15K	NOSTUFF
2.05V	36.5K	27.3K
2.10V	36.5K	29.2K
2.15V	16.9K	NOSTUFF

515-1563

DON'T EVER STUFF THIS
CONN NOT FIT ON PCB
FOR DANNY ITANI FMAX!!!

SET FOR 1.8V CPUOVDD

SET FOR 2.5V VIDEO FRAME BUFFER

SET FOR 2.5V PANGAEA CORE
Voltage Regulators

GRAPHICS CORE IS SET TO 1.90V

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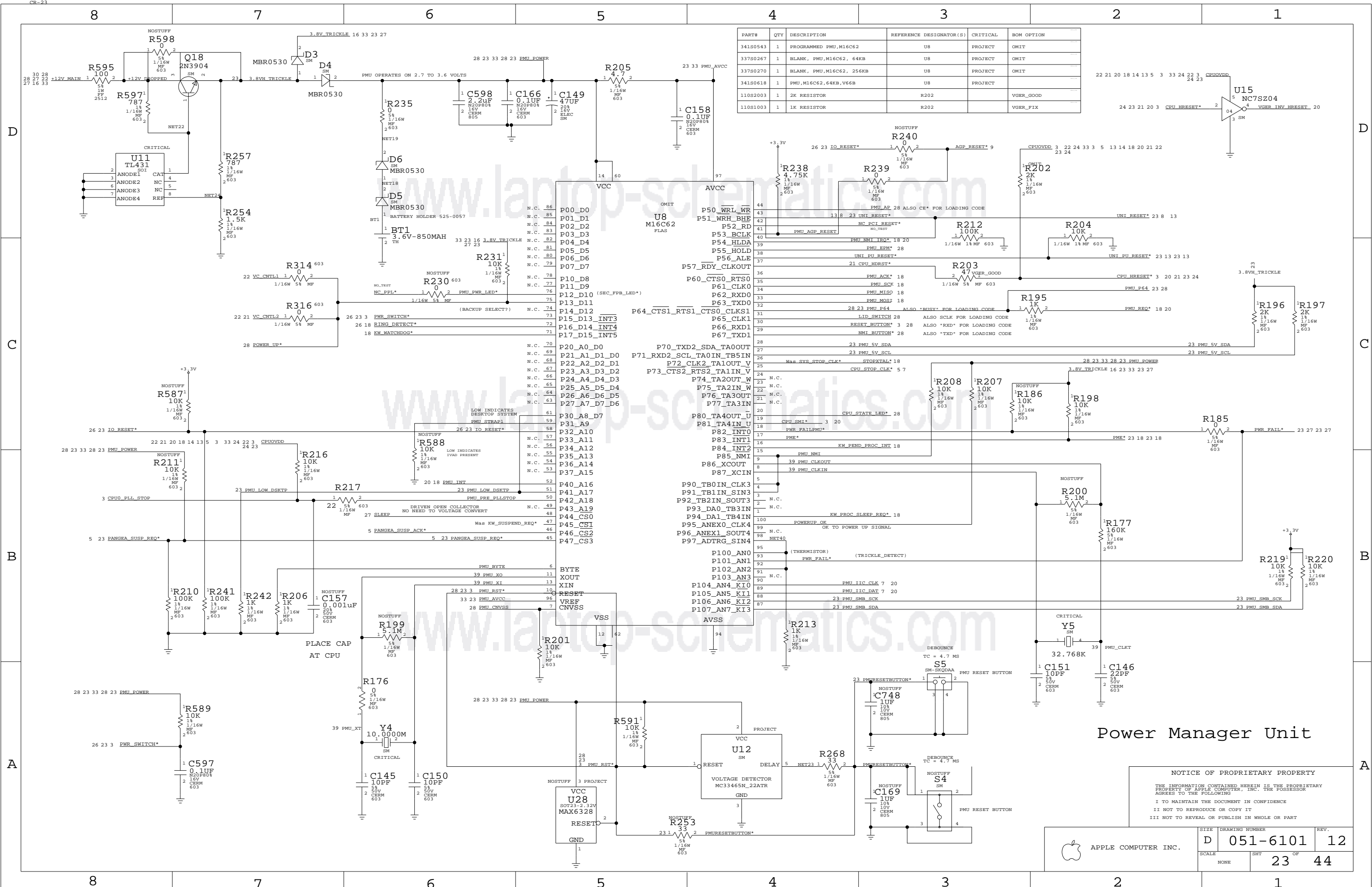
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SIZE	DRAWING NUMBER	REV.
D	051-6101	12
SCALE	SHT	OF
NONE	22	44



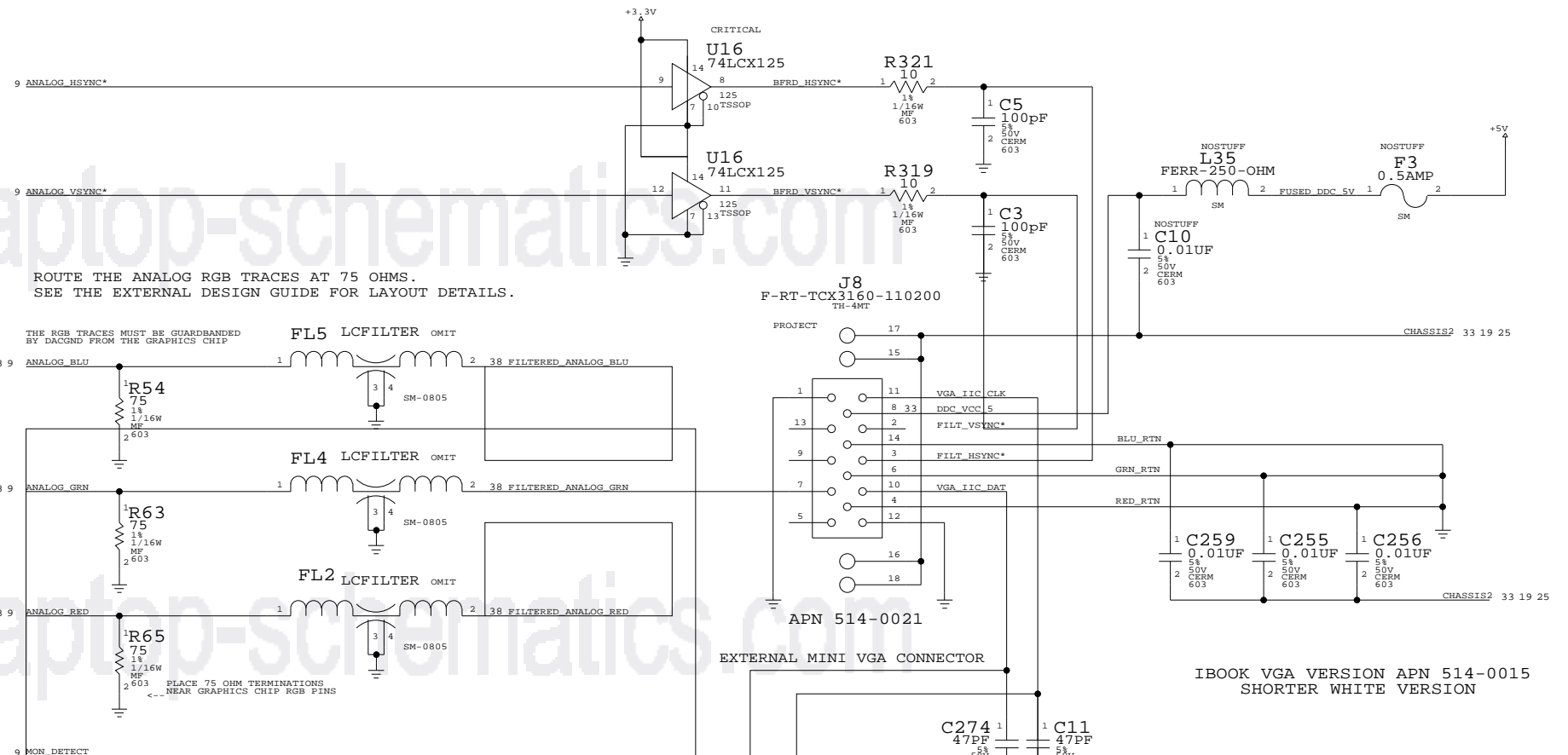
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
34180543	1	PROGRAMMED PMU,M16C62	U8	PROJECT	OMIT
33780267	1	BLANK, PMU,M16C62, 64KB	U8	PROJECT	OMIT
33780270	1	BLANK, PMU,M16C62, 256KB	U8	PROJECT	OMIT
34180618	1	PMU,M16C62,64KB,V66B	U8	PROJECT	
11082003	1	2K RESISTOR	R202		VGER_GOOD
11081003	1	1K RESISTOR	R202		VGER_FIX

Power Manager Unit

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APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-6101	12
SCALE		SHT	OF
NONE		23	44

Internal TMDS Connector

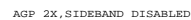


APN 155S0012 DOESN'T EXIST IN DATABASE, SYMBOLS ARE 155S0010

External	VGA Connector
----------	---------------

IBOOK VGA VERSION APN 514-0015
SHORTER WHITE VERSION

SELECTED OPTION IS THIS COLOR!



RAM TYPE = 2M X 32 DDR

```
PCI_DEV_ID = 0X0110
```

AGP MC

14.31818 MHz XTAL

FAST WRITES DISABLED

SYSTEM BIOS

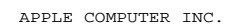
PCIAD BUS NORMAL

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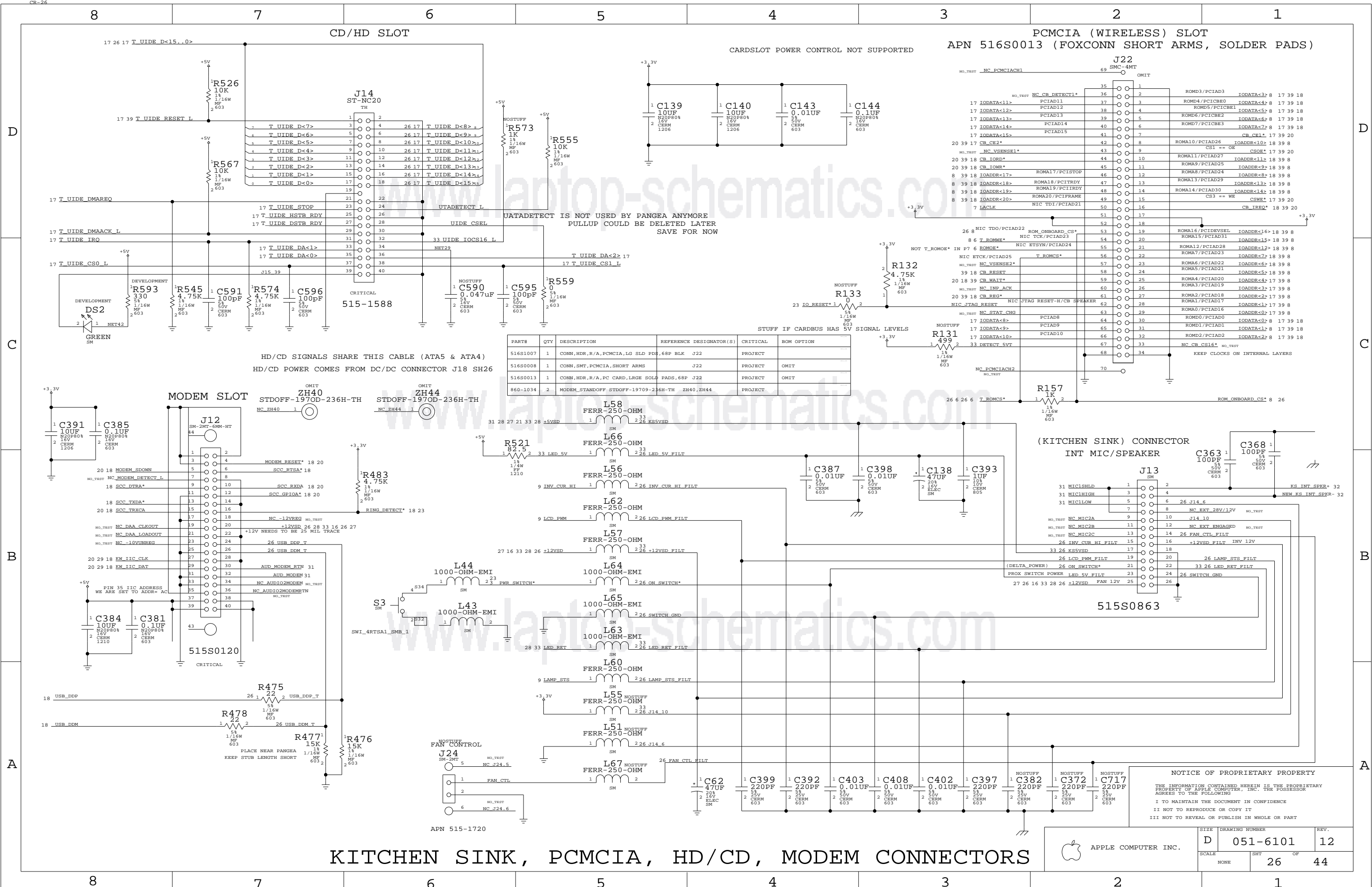
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SIZE	DRAWING NUMBER	REV.
D	051-6101	12
SCALE	SHT	OF
NONE	25	44



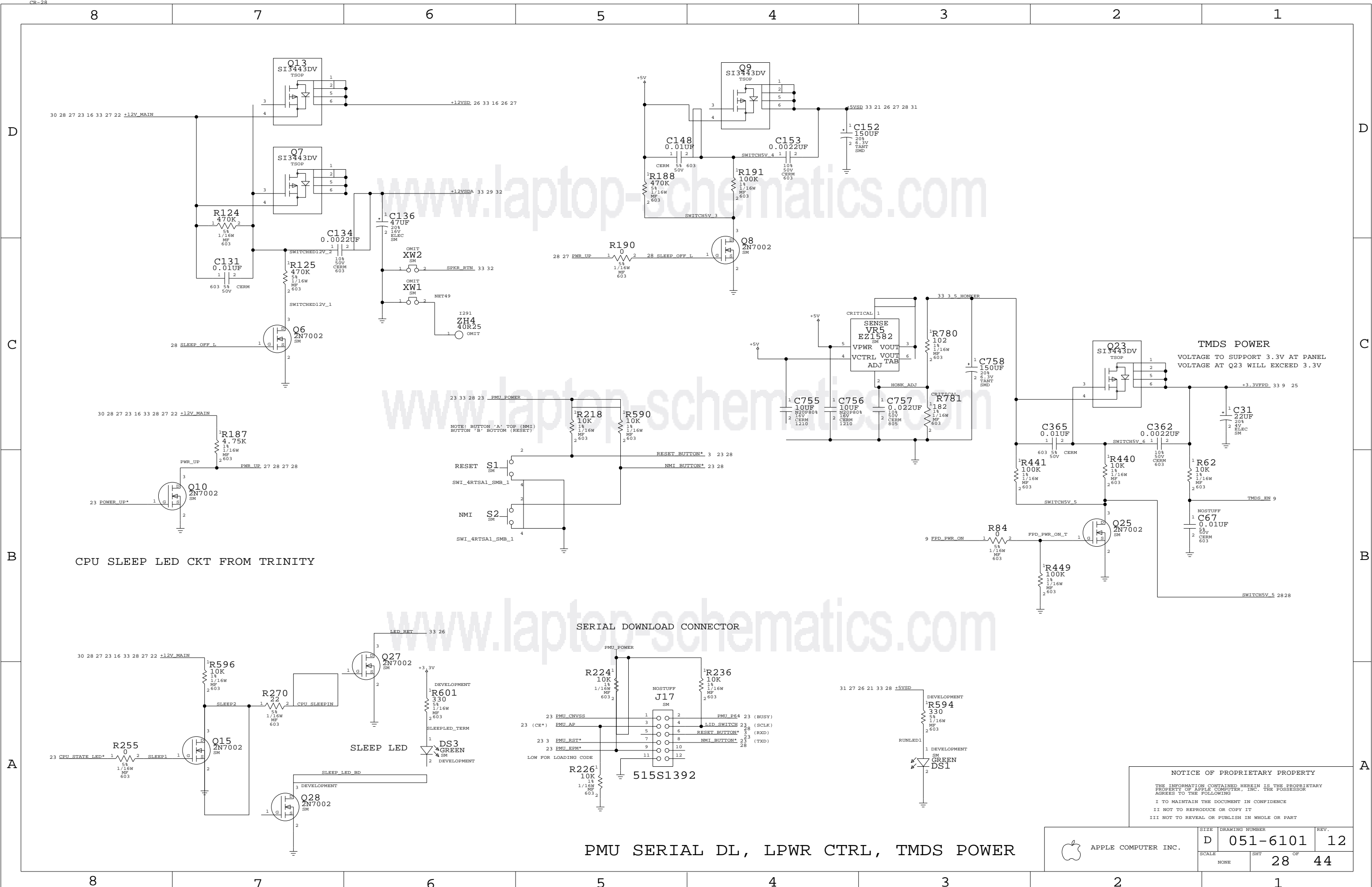
KITCHEN SINK, PCMCIA, HD/CD, MODEM CONNECTORS



APPLE COMPUTER INC.

SIZE	D	DRAWING NUMBER	051-6101	REV.	12
SCALE	NONE	SHT	26	OF	44

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CPU SLEEP LED CKT FROM TRINITY

SERIAL DOWNLOAD CONNECTOR

PMU SERIAL DL, LPWR CTRL, TMDs POWER

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APPLE COMPUTER INC.	SIZE D	DRAWING NUMBER 051-6101	REV. 12
	SCALE NONE	SHT 28	OF 44

The schematic diagram illustrates the internal circuitry of the Tumbler Control & D/A section. It features several key components:

- U26 LP2951**: A voltage detector and monitor IC connected to the +12VSDA rail.
- U25 LP2951**: Another voltage detector and monitor IC connected to the +AUD5V rail.
- U20 TS924**: An operational amplifier configured as a buffer or comparator.
- U23 TLC320AD77C**: A digital-to-analog converter (DAC) interfaced with the microcontroller via I2C.
- U5 TAS3001C**: A Texas Instruments audio codec chip handling digital audio data and providing analog outputs.
- U27 MAX9869**: A Class-D audio amplifier driving the speaker through a transformer.

The diagram shows extensive power management, including decoupling capacitors (e.g., C125, C126, C127, C114, C111, C115, C116, C112, C113, C110, C111, C112, C113, C110, C111, C112, C113), inductors (L9, L11, L10, L50, L54), and resistors (R489, R488, R474, R479, R451, R435, R442, R429, R439, R444, R434). It also includes a mode selection table and a list of required external signals and power rails.

MOD2	MOD1	MOD0	Function
0	0	0	16-BIT SERIAL
0	0	1	20-BIT SERIAL
0	1	0	24-BIT SERIAL
0	1	1	16-BIT IIS
1	0	0	20-BIT IIS
1	0	1	24-BIT IIS
1	1	0	16-BIT SERIAL LEFT JUSTIFIED
1	1	1	16-BIT DSP FRAME

TUMBLER, CONTROL & D/A

SHEETS 28-32 CONTAIN THE TUMBLER AUDIO SOLUTION
THE FOLLOWING EXTERNAL SIGNALS ARE REQUIRED:

SIGNAL_NAME - DESC

- SCR_SYNC - I2S LRCLK
- PANAUDCLKOUT - I2S MCLK
- KW_IIC_CLK - I2C SCLK
- SCR_SCLK - I2S SCLK
- KW_IIC_DAT - I2C DATA
- SCR_DATAIN - I2S DATA IN (OUT FROM KEYWEST)
- IO_RESET - A RESET SIGNAL
- KW_AUD_DTI - I2S DATA OUT (TO KEYWEST)
- AUDIO_SPKR_ID - DETECTS AN EXTERNAL SPKR & READS SPKR I12 ROM
- AUDIO_HP_MUTE - MUTE THE HEADPHONE
- AUDIO_HP_SENSE - DETECTS HEADPHONES PLUGGED IN
- AUDIO_AMP_MUTE - MUTES AUDIO SPEAKER AMP
- GPIO_DALLAS - INPUT/OUTPUT TO THE DALLAS ROM
- FMPHTRST - POWERS DOWN THE TRIPATH AMP (BACKUP PLAN)

NEED TO ADD STUFFING OPTIONS

CS2/1 I2C ADDRESS SELECTION

CS2	CS1	I2C ADDRESS
0	0	0X68
0	1	0X6A
1	0	0X6C
1	1	0X6E

18 KW_AUD_DTI

R448

10

1 2

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THE FOLLOWING POWER RAILS ARE REQUIRED:

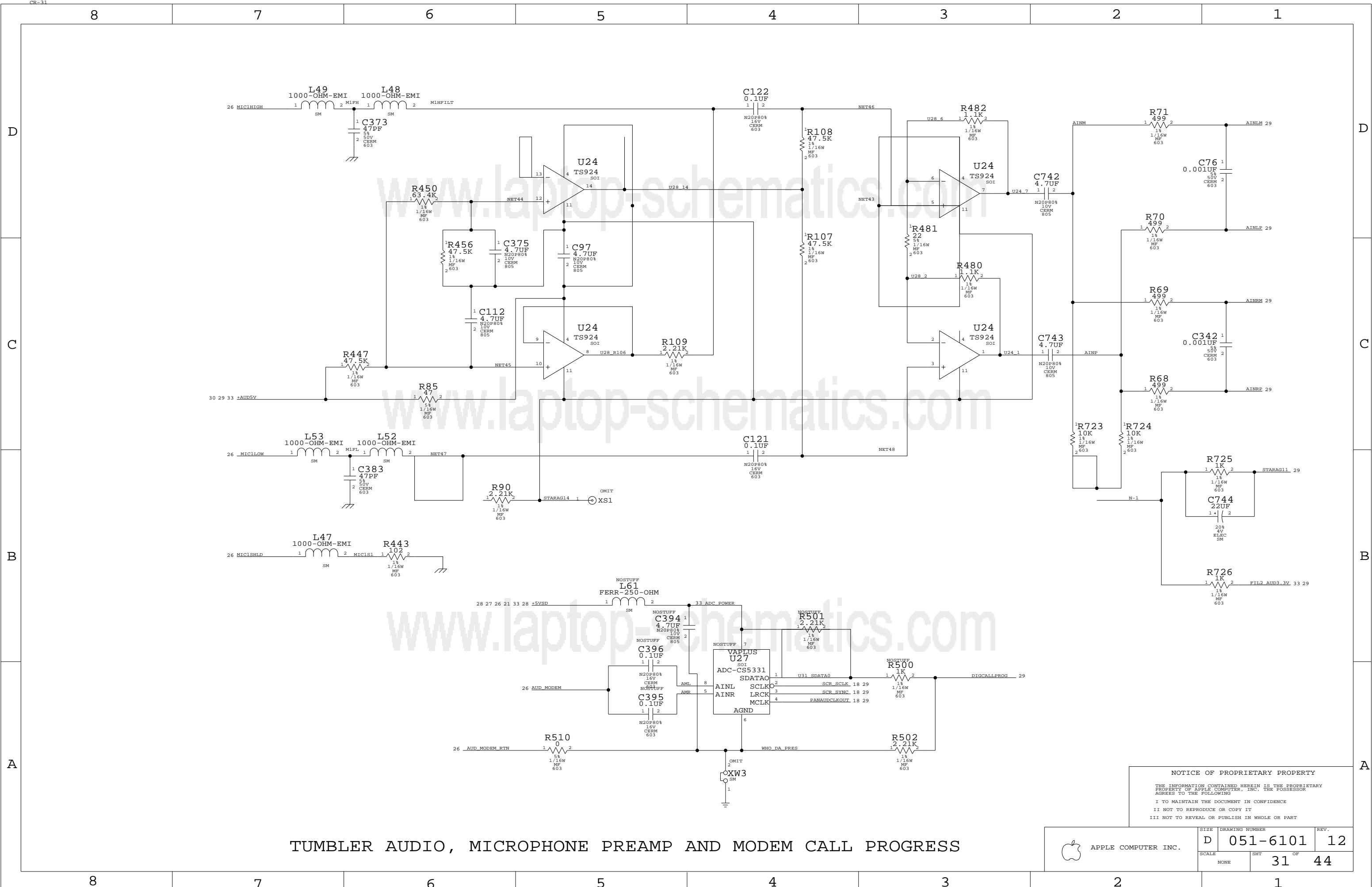
- +12VSD -> 12 VOLTS ON ONLY IN RUN MODE (OFF IN SLEEP/SHUTDOWN)
- +3,3V -> 3.3 VOLTS ON IN SLEEP/RUN (OFF IN SHUTDOWN)
- +5VSD -> 5.0 VOLTS (FOR CALL PROGRESS) ON IN RUN ONLY.

TRICKLE 5V -> 5.0 VOLTS ALWAYS ON.

DO NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

SIZE	DRAWING NUMBER		REV.
D	051-6101		12
SCALE		SHT	OF
NONE		29	44

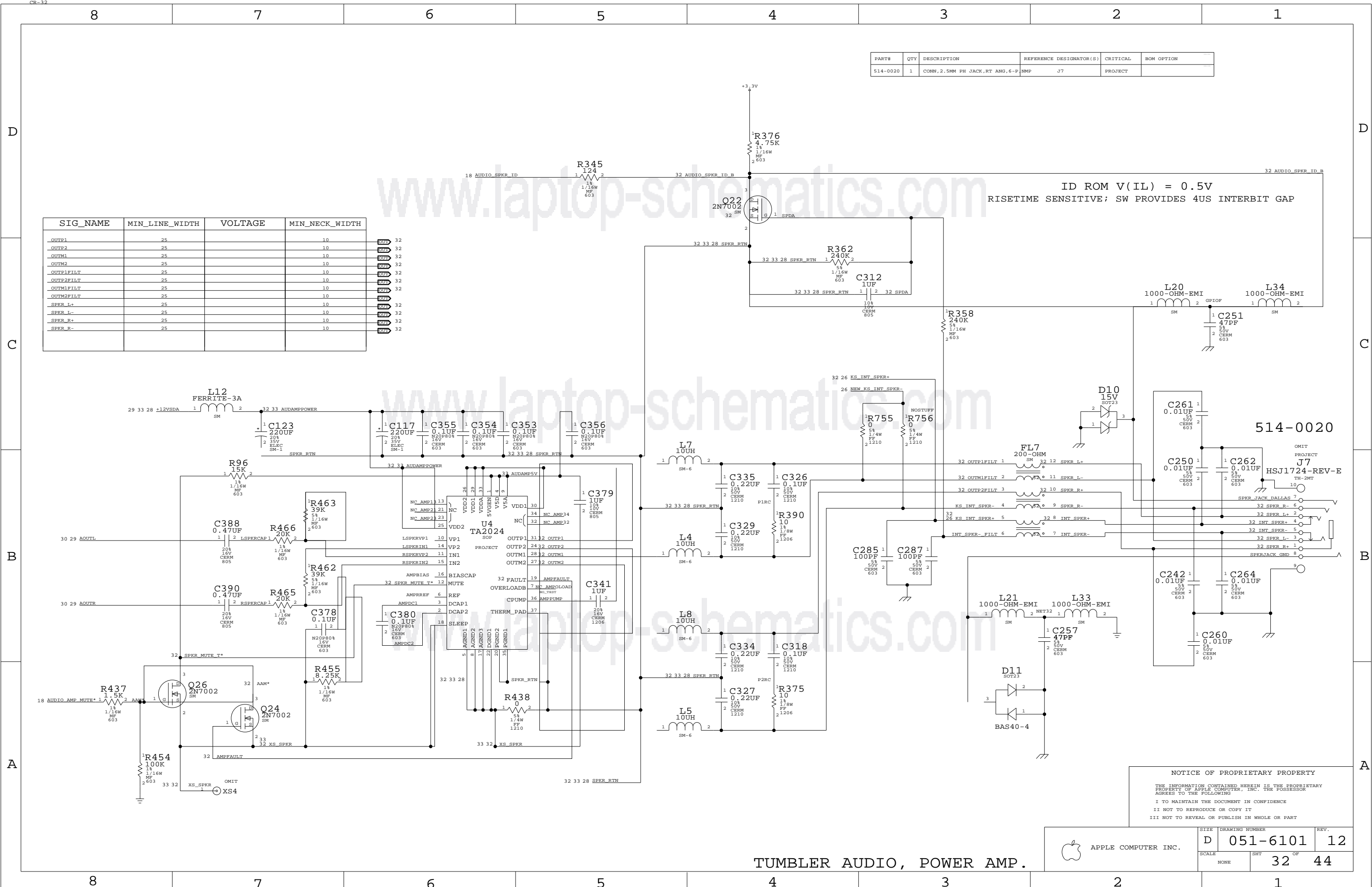




TUMBLER AUDIO, MICROPHONE PREAMP AND MODEM CALL PROGRESS

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	D	051-6101	12
SCALE	NONE	SHT	OF
		31	44



SIG_NAME	MIN_LINE_WIDTH	VOLTAGE	MIN_NECK_WIDTH
OUTP1	25		10
OUTP2	25		10
OUTM1	25		10
OUTM2	25		10
OUTP1FILT	25		10
OUTP2FILT	25		10
OUTM1FILT	25		10
OUTM2FILT	25		10
SPKR L+	25		10
SPKR L-	25		10
SPKR R+	25		10
SPKR R-	25		10

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
514-0020	1	CONN, 2.5MM PH JACK, RT ANG, 6-P	NMP J7	PROJECT	

ID ROM V(IL) = 0.5V
RISETIME SENSITIVE; SW PROVIDES 4US INTERBIT GAP

514-0020

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TUMBLER AUDIO, POWER AMP.



APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6101	12
SCALE	SHT	OF
NONE	32	44

CR-33

87654321

DESIGN IF SPECIAL G3 NEEDED>

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
051-6101	1	SCHEM,PCBA,P11	PCB1	
056-0862	1	DESIGN GUIDE	PCB1	
056-0928	1	DWG,DSGN GD,MLB,P11	PCB1	OMIT
613-3302	1	GEN DWG, PCBA MECH SUBASSY	PCB1	
820-1257	1	PCBF,MLB,P11	PCB1	

HARDWARE

410-1105	2	WIRELESS CONENCTOR SCREW	J22,J22	
835-0101	2	WIRELESS CONNECTOR NUT	J22,J22	
600-9413	1	HEATSINK,MONICA,REAL	U22	OMIT
730-0231	1	HEATSINK,MONICA,STEALTH	U22	OMIT
730-0214	1	HEATSINK,MICROPROCESSOR	U13	OMIT
730-0202	1	HEATSINK,MICROPROCESSOR	U13	OMIT
730-0217	1	HEATSINK,PANGEA	U6	STEALTH
730-0217	1	HEATSINK,PANGEA	U6	REAL
600-9414	1	HEATSINK,TRIPATH,REAL	U4	OMIT
730-0230	1	HEATSINK,TRIPATH,STEALTH	U4	OMIT
875-0498	1	GAP FILLER VGER CPU	U13	REAL

MODEM/MISC

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
525-0057	1	BATTERY HOLDER	BT1		
825-2029	1	LABEL,SERIAL NUMBER BARCODE	PCB1		
617-0186	1	MODEM, SPRING, W/RJ11	J12	PROJECT	OMIT
617-0201	1	MODEM, DASH, W/RJ11	J12	PROJECT	OMIT
617-0205	1	MODEM, DASH, W/NO RJ11	J12	PROJECT	OMIT
617-0212	1	EMI FILTER PCB,DASH,W/NO RJ11	J12	PROJECT	OMIT
617-0196	1	MODEM, B4, W/NO RJ11	J12	PROJECT	OMIT
617-0196	1	MODEM, AU5, W/NO RJ11	J12	PROJECT	OMIT

617-0196 ALSO REQUIRES DONGLE 611-0138, BUT THAT IS INCLUDED IN ACCESSORY KIT

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
617-0213	1	MODEM, SPRING2, W/NO RJ11	J12	PROJECT	OMIT
617-0212	1	EMI FILTER PCB,SPRING2,W/NO RJ11	J12	PROJECT	OMIT

SODIMMS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
333-0336	1	IC,SDRAM,64MB ,PC100,SODIMM	J21	PROJECT	OMIT
333-0360	1	IC,SDRAM,128MB,PC100,SODIMM	J21	PROJECT	OMIT
333-0362	1	IC,SDRAM,256MB,PC100,MICRON,SODIMM	J21	PROJECT	OMIT
333-0363	1	IC,SDRAM,256MB,PC100,SAM/HYUN,SODIMM	J21	PROJECT	OMIT
333-0364	1	IC,SDRAM,512MB,PC100,SODIMM	J21	PROJECT	OMIT

168 PIN DIMMS

333-0112	1	IC,SDRAM,64MB,PC100,4BK,168P DIMM	J19	PROJECT	OMIT
333-0346	1	IC,SDRAM,128MB,PC100,4BK,168P DIMM	J19	PROJECT	OMIT
333-0347	1	IC,SDRAM,256MB,PC100,4BK,168P DIMM	J19	PROJECT	OMIT
333-0349	1	IC,SDRAM,512MB,PC100,4BK,168P DIMM	J19	PROJECT	OMIT

HOLES AND SLOTS

ZH2

394R177

OMIT

ZH3

394R177

OMIT

I124

ZH1

394R138

OMIT

CR-33

87654321

DESIGN IF SPECIAL G3 NEEDED>

SIG_NAME	MIN_LINE_WIDTH	VOLTAGE	MIN_NECK_WIDTH
	200	5	10
	25	3.3	10
	100	12	10
	25	0	10
	25	0	10
CPUOVDD	25	1.8	10
VGER_VCORE	15	2.0	10
+AVDD_CPU	25	2.0	10
L3_OVDD	15	1.5	10
L3_CORE	15	2.5	10
PANGEA_AVDD5	10	1.8	10
PANGEA_AVDD4	10	3.3	10
+12VSD_FILT	100	12	10
AGEVDD	10	3.3	10
PANGEA_AVDD6	10	3.3	7
AGEVREF	10	1.32	10
GRAPH_CORE	25	1.9	10
+5VSD	100	5	10
+12VSD	100	12	10
IFP_AVCC	10	3.3	10
MAINCLK_VDD	25	3.3	10
IFP0AVCC	10	3.3	7
DACVDD	10	3.3	10
FB2_5	25	2.5	10
M_VREF1	10	1.25	10
M_VREF2	10	1.25	10
PANGEA_AMVDD	10	3.3	10
PANGEA_TEI		0	10
ETH_RXD_PD		0	10
QBR_REFCLK		0	10
PANGEAVCORE	25	2.5	10
VCCA	10	3.3	10
VCCTXFM	10	3.3	10
PHYAD		0	10
ENET_TST		0	10
ENETCNT		0	10
PWRDWN		0	10
FW_PHY_3_3	10	3.3	10
3.8V_TRICKLE	10	3.8	10
3.3V_TO_FW	10	3.3	10
G_SSCLK_VDD	25	3.3	10
FW_VP_2	40	30	10
FW_VP_1	40	30	10
FW_VP	40	30	10
FW_VGND	40	0	10
AUDAMPPOWER	70	12	10
12V_LP_FILT	25	12	10
12V_FILT	25	12	10
J14_10	25	3.3	10
LED_RET	25	5	10
LED_RET_FILT	25	5	10
XS_SPKR	70	0	10

MODEM/MISC

SIG_NAME	MIN_LINE_WIDTH	VOLTAGE	MIN_NECK_WIDTH
CHASSIS2	25	0	10
K55VSD	15	5	10
LED_5V	25	5	10
LED_5V_FILT	25	5	10
PANGEA_VDDA3	10	3.3	7
PANGEA_VDDA2	10	3.3	10
PANGEA_VDDA1	10	3.3	10
VDD_USB	10	3.3	7
USB_PWR_AB		3.3	10
USB_PWR_CD		3.3	10
USB_PWR_FLT		5	10
AUD_STAR	10	0	10
USB_PWR	200	5	10
USB1_PWR	200	5	10
USB1_GND	200	0	10
USB2_PWR	200	5	10
USB2_GND	200	0	10
USB3_PWR	200	5	10
USB3_GND	200	0	10
PMU_POWER	10	3.3	10
PMU_AVCC	10	3.3	10
+3.3VFPD	25	3.3	10
DDC_VCC_3	10	3.3	10
INT_TMONS_3V	10	3.3	10
3_5_HOOKER	50	3.5	25
DETECT_5VT		3.3	10
+12V_MAIN	600	12	25
+12V_DROPPED	50	12	10
UIDE_IOCS16_L		5	10
+12VSDA	100	12	10
+5VSD_T	40	5	10
+12VSD_T	40	12	10
+AUD5V	10	5	10
FIL2_DIG3_3V	10	3.3	10
ADC_POWER	40	5	10
DIG_AUD3_3V	10	3.3	10
FIL_AUD3_3V	10	3.3	10
+AUD3_3V	15	3.3	10
AUD_STAR	15	0	10
FIL2_AUD3_3V	10	3.3	10
AUDAMP5V	10	5	10
SPKR_RTN	100	0	10
DDC_VCC_5	50	0	10
FUSED_DDC_5V	50	0	10

I/O CONNECTORS

	SHEET	J2, J3, J5
USB	18	J1
ETHERNET	14	J1
FIREWIRE	15	J4, J6
VGA	24	J8
HEADPHONE	29	J9
MODEM	MODEM SCHEM	MODEM SCHEM
DC IN	SHEET 26	J15
SPKR	SHEET 31	J7

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DESIGN IF SPECIAL G3 NEEDED>

SIG_NAME	MIN_LINE_WIDTH	VOLTAGE	MIN_NECK_WIDTH
	200	5	10
	25	3.3	10
	100	12	10
	25	0	10
	25	0	10
CPUOVDD	25	1.8	10
VGER_VCORE	15	2.0	10
+AVDD_CPU	25	2.0	10
L3_OVDD	15	1.5	10
L3_CORE	15	2.5	10
PANGEA_AVDD5	10	1.8	10
PANGEA_AVDD4	10	3.3	10
+12VSD_FILT	100	12	10
AGEVDD	10	3.3	10
PANGEA_AVDD6	10	3.3	7
AGEVREF	10	1.32	10
GRAPH_CORE	25	1.9	10
+5VSD	100	5	10
+12VSD	100	12	10
IFP_AVCC	10	3.3	10
MAINCLK_VDD	25	3.3	10
IFP0AVCC	10	3.3	7
DACVDD	10	3.3	10
FB2_5	25	2.5	10
M_VREF1	10	1.25	10
M_VREF2	10	1.25	10
PANGEA_AMVDD	10	3.3	10
PANGEA_TEI		0	10
ETH_RXD_PD		0	10
QBR_REFCLK		0	10
PANGEAVCORE	25	2.5	10
VCCA	10	3.3	10
VCCTXFM	10	3.3	10
PHYAD		0	10
ENET_TST		0	10
ENETCNT		0	10
PWRDWN		0	10
FW_PHY_3_3	10	3.3	10
3.8V_TRICKLE	10	3.8	10
3.3V_TO_FW	10	3.3	10
G_SSCLK_VDD	25	3.3	10
FW_VP_2	40	30	10
FW_VP_1	40	30	10
FW_VP	40	30	10
FW_VGND	40	0	10
AUDAMPPOWER	70	12	10
12V_LP_FILT	25	12	10
12V_FILT	25	12	10
J14_10	25	3.3	10
LED_RET	25	5	10
LED_RET_FILT	25	5	10
XS_SPKR	70	0	10

MODEM/MISC

SIG_NAME	MIN_LINE_WIDTH	VOLTAGE	MIN_NECK_WIDTH
CHASSIS2	25	0	10
K55VSD	15	5	10
LED_5V	25	5	10
LED_5V_FILT	25	5	10
PANGEA_VDDA3	10	3.3	7
PANGEA_VDDA2	10	3.3	10
PANGEA_VDDA1	10	3.3	10
VDD_USB	10	3.3	7
USB_PWR_AB		3.3	10
USB_PWR_CD		3.3	10
USB_PWR_FLT		5	10
AUD_STAR	10	0	10
USB_PWR	200	5	10
USB1_PWR	200	5	10
USB1_GND	200	0	10
USB2_PWR	200	5	10
USB2_GND	200	0	10
USB3_PWR	200	5	10
USB3_GND	200	0	10
PMU_POWER	10	3.3	10
PMU_AVCC	10	3.3	10
+3.3VFPD	25	3.3	10
DDC_VCC_3	10	3.3	10
INT_TMONS_3V	10	3.3	10
3_5_HOOKER	50	3.5	25
DETECT_5VT		3.3	10
+12V_MAIN	600	12	25
+12V_DROPPED	50	12	10
UIDE_IOCS16_L		5	10
+12VSDA	100	12	10
+5VSD_T	40	5	10
+12VSD_T	40	12	10
+AUD5V	10	5	10
FIL2_DIG3_3V	10	3.3	10
ADC_POWER	40	5	10
DIG_AUD3_3V	10	3.3	10
FIL_AUD3_3V	10	3.3	10
+AUD3_3V	15	3.3	10
AUD_STAR	15	0	10
FIL2_AUD3_3V	10	3.3	10
AUDAMP5V	10	5	10
SPKR_RTN	100	0	10
DDC_VCC_5	50	0	10
FUSED_DDC_5V	50	0	10

I/O CONNECTORS

	SHEET	J2, J3, J5
USB	18	J1
ETHERNET	14	J1
FIREWIRE	15	J4, J6
VGA	24	J8
HEADPHONE	29	J9
MODEM	MODEM SCHEM	MODEM SCHEM
DC IN	SHEET 26	J15
SPKR	SHEET 31	J7

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DESIGN IF SPECIAL G3 NEEDED>

SIG_NAME	MIN_LINE_WIDTH	VOLTAGE	MIN_NECK_WIDTH
	200	5	10
	25	3.3	10
	100	12	10
	25	0	10
	25	0	10
CPUOVDD	25	1.8	10
VGER_VCORE	15	2.0	10
+AVDD_CPU	25	2.0	10
L3_OVDD	15	1.5	10
L3_CORE	15	2.5	10
PANGEA_AVDD5	10	1.8	10
PANGEA_AVDD4	10	3.3	10
+12VSD_FILT	100	12	10
AGEVDD	10	3.3	10
PANGEA_AVDD6	10	3.3	7
AGEVREF	10	1.32	10
GRAPH_CORE	25	1.9	10
+5VSD	100	5	10
+12VSD	100	12	10
IFP_AVCC	10	3.3	10
MAINCLK_VDD	25	3.3	10
IFP0AVCC	10	3.3	7
DACVDD	10	3.3	10
FB2_5	25	2.5	10
M_VREF1	10	1.25	10
M_VREF2	10	1.25	10
PANGEA_AMVDD	10	3.3	10
PANGEA_TEI		0	10
ETH_RXD_PD		0	10
QBR_REFCLK		0	10
PANGEAVCORE	25	2.5	10
VCCA	10	3.3	10
VCCTXFM	10	3.3	10
PHYAD		0	10
ENET_TST		0	10
ENETCNT		0	10
PWRDWN		0	10
FW_PHY_3_3	10	3.3	10
3.8V_TRICKLE	10	3.8	10
3.3V_TO_FW	10	3.3	10
G_SSCLK_VDD	25	3.3	10
FW_VP_2	40	30	10
FW_VP_1	40	30	10
FW_VP	40	30	10
FW_VGND	40	0	10
AUDAMPPOWER	70	12	10
12V_LP_FILT	25	12	10
12V_FILT	25	12	10
J14_10	25	3.3	10
LED_RET	25	5	10
LED_RET_FILT	25	5	10
XS_SPKR	70	0	10

MODEM/MISC

SIG_NAME	MIN_LINE_WIDTH	VOLTAGE	MIN_NECK_WIDTH
CHASSIS2	25	0	10
K55VSD	15	5	10
LED_5V	25	5	10
LED_5V_FILT	25	5	10
PANGEA_VDDA3	10	3.3	7
PANGEA_VDDA2	10	3.3	10
PANGEA_VDDA1	10	3.3	10
VDD_USB	10	3.3	7
USB_PWR_AB		3.3	10
USB_PWR_CD		3.3	10
USB_PWR_FLT		5	10
AUD_STAR	10	0	10
USB_PWR	200	5	10
USB1_PWR			

</

							35	NONE	35	44
8	7	6	5	4	3	2	1			

8		7		6		5		4		3		2		1			
D	SIG_NAME	PULSE_PARAM	MAX_VIA_COUNT	DELAY_RULE	STUB_LENGTH	NET_SPACING_TYPE	NET_SCHED		SIG_NAME	PULSE_PARAM	MAX_VIA_COUNT	NET_SCHED	DELAY_RULE	STUB_LENGTH	NET_SPACING_TYPE		
	T M BA0	100MHZ::	5	::1100:2400	200	5 MIL SPACING	RP23.1 J21.106 RP22.5	6	TERM2_M_ADDR<0>	100MHZ::	4		::100:500	200	5 MIL SPACING	6 8 6 8	
	T M BA1	100MHZ::	5	::1100:2400		5 MIL SPACING	RP23.4 J21.110 RP22.8	6	TERM2_M_ADDR<1>	100MHZ::	4		::100:500	200	5 MIL SPACING	6 8 6 8	
	T SDRAS*	100MHZ::	5			5 MIL SPACING	RP31.4 J21.65 RP29.6	6	TERM2_M_ADDR<2>	100MHZ::	4		::100:500	200	5 MIL SPACING	6 8 6 8	
	T SDCAS*	100MHZ::	5	::1100:2400	200	5 MIL SPACING	RP31.3 J21.66 RP29.5	6	TERM2_M_ADDR<3>	100MHZ::	4		::100:500	200	5 MIL SPACING	6 8 6 8	
	T MEMWE*	100MHZ::	5	::1100:2400	200	5 MIL SPACING	R539.1 J21.67 R158.2	6	TERM2_M_ADDR<4>	100MHZ::	4		::100:500	200	5 MIL SPACING	6 8 6 8	
	T2 M BA0	100MHZ::	4	::100:500	200	5 MIL SPACING		6	TERM2_M_ADDR<5>	100MHZ::	4		::100:500	200	5 MIL SPACING	6 8 6 8	
	T2 M BA1	100MHZ::	4	::100:500	200	5 MIL SPACING		6	TERM2_M_ADDR<6>	100MHZ::	4		::100:500	200	5 MIL SPACING	6 8 6 8	
	T2 SDRAS*	100MHZ::	4	::100:500	200	5 MIL SPACING		6	TERM2_M_ADDR<7>	100MHZ::	4		::100:500	200	5 MIL SPACING	6 8 6 8	
	T2 SDCAS*	100MHZ::	4	::100:840	200	5 MIL SPACING		6	TERM2_M_ADDR<8>	100MHZ::	4		::100:500	200	5 MIL SPACING	6 8 6 8	
	T2 MEMWE*	100MHZ::	4	::100:500	200	5 MIL SPACING		6	TERM2_M_ADDR<9>	100MHZ::	4		::100:500	200	5 MIL SPACING	6 8 6 8	
C	SIG_NAME	PULSE_PARAM	MIN LINE WIDTH MAX_VIA_COUNT	NET_SCHED	DELAY_RULE	MAX_EXPOSED_LENGTH	STUB_LENGTH	NET_SPACING_TYPE		TERM2_M_ADDR<10>	100MHZ::	4		::100:700	200	5 MIL SPACING	6 8 6 8
	_PANGA_CPU_CLK	100MHZ::	2 6		::300:500		100	10 MIL SPACING	5	TERM2_M_ADDR<11>	100MHZ::	4		::100:700	200	5 MIL SPACING	6 8 6 8
	_CPU_CLK	100MHZ::	6 6		::2700:4100	1000	200	10 MIL SPACING	3 5 7	TERM2_M_ADDR<12>	100MHZ::	4		::100:700	200	5 MIL SPACING	6 8 6 8
	_CPUFBOUT	100MHZ::	2 6		::100:600		100	10 MIL SPACING	5	DQM0*	100MHZ::	4		::3000:4000	200	5 MIL SPACING	6
	_TCPUFBOUT	100MHZ::	2 6		::475:700		100	10 MIL SPACING	5 7	DQM1*	100MHZ::	4		::3000:4000	200	5 MIL SPACING	6
	_CPUFB7	100MHZ::	2 6		::2700:3000		100	10 MIL SPACING	5	DQM2*	100MHZ::	4		::3000:4000	200	5 MIL SPACING	6
	_CPUFB6	100MHZ::	2 6		::1800:2000		100	10 MIL SPACING	5	DQM3*	100MHZ::	4		::3000:4000	200	5 MIL SPACING	6
	_CPUFB5	100MHZ::	2 6		::1800:2000		100	10 MIL SPACING	5	DQM4*	100MHZ::	4		::3000:4000	200	5 MIL SPACING	6
	_CPUFB4	100MHZ::	2 6		::1800:2000		100	10 MIL SPACING	5	DQM5*	100MHZ::	4		::3000:4000	200	5 MIL SPACING	6
	_CPUFB3	100MHZ::	2 6		::1800:2000		100	10 MIL SPACING	5	DQM6*	100MHZ::	4		::3000:4000	200	5 MIL SPACING	6
	_CPUFB2	100MHZ::	2 6		::1800:2000		100	10 MIL SPACING	5	DQM7*	100MHZ::	4		::3000:4000	200	5 MIL SPACING	6
	_CPUFB1	100MHZ::	2 6		::2600:3000		100	10 MIL SPACING	5								
	_CPUFBIN	100MHZ::	6 6		::475:1300	1000	100	10 MIL SPACING	5 7								
	_AGPFB0	66MHZ::	2 5		::950:1000	250	100	10 MIL SPACING	8								
	_AGPFB1	66MHZ::	2 5		::475:700		100	10 MIL SPACING	8								
	_AGPFB2	66MHZ::	2 5		::950:1100		100	10 MIL SPACING	8								
	_AGPFB3	66MHZ::	2 5		::475:700		100	10 MIL SPACING	8								
	_SCHMOO_CPU_CLK	100MHZ::	2 6		::300:500	250	100	10 MIL SPACING									
	_BANDAID	18.432MHZ::	3		:::2700		100	10 MIL SPACING									
B																	
A																	
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SCALE NONE SHT 36 OF 44																	
CONSTRAINTS -- MEMORY PAGE 2																	
APPLE COMPUTER INC.																	
D 051-6101 12																	
8 7 6 5 4 3 2 1																	

CONSTRAINTS -- AGP, FIREWIRE, PARTIAL GRAPHICS (1 OF 2)

[illegible]

B
C
D

[illegible]

C

B

[illegible]

A











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OUT	9	25
OUT	9	25
OUT	9	25
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OUT	9	25
OUT	9	25
OUT	9	25
OUT	10	
OUT	10	
OUT	10	11
OUT	10	11

A

MORE GRAPHICS RELATED DOO-DAHS

[illegible][illegible]

AA

SIG_NAME	NET_SCHED	
CB CE2*	U6.W28 RP10.4 J22.42	 17 20 26
CB CE1*	U6.W29 RP10.3 J22.7	 17 20 26
CB IORD*	U6.W33 RP10.1 J22.44	 18 20 26
CB IOWR*	U6.W34 RP10.2 J22.45	 18 20 26
CB IREQ*	U6.A32 R178.1 J22.16	 18 20 26
CB REQ*	U6.B31 R136.1 J22.61	 18 20 26
CB RESET	U6.AE33 R168.2 J22.58	 18 26
CB WAIT*	U6.Y34 R148.1 J22.59	 18 20 26
CSWE*	U6.V29 RP12.2 J22.15	 17 20 26
CSOR*	U6.Y33 RP12.1 J22.9	 17 20 26

CONSTRAINTS -- MISCELLANEOUS

SIZE	DRAWING NUMBER		REV.
D	051-6101		12
SCALE	SHT	OF	
NONE	39	44	

8			7			6			5			4			3			2			1		
D	BT1	23	BATTERY	C95	10	CAP	C190	4	CAP	C285	32	CAP	C380	32	CAP	D							
	C1	19	CAP_P	C96	29	CAP	C191	22	CAP_P	C286	16	CAP	C381	26	CAP								
	C2	19	CAP_P	C97	31	CAP	C192	4	CAP	C287	32	CAP	C382	26	CAP								
	C3	25	CAP	C98	11	CAP	C193	4	CAP	C288	15	CAP	C383	31	CAP								
	C4	19	CAP_P	C99	11	CAP	C194	24	CAP	C289	15	CAP	C384	26	CAP								
	C5	25	CAP	C100	10	CAP	C195	4	CAP	C290	16	CAP	C385	26	CAP								
	C6	16	CAP	C101	10	CAP	C196	4	CAP	C291	15	CAP	C386	22	CAP								
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	C39	11	CAP	C134	28	CAP	C229	27	CAP	C324	22	CAP	C419	14	CAP								
<div>NOTICE OF PROPRIETARY PROPERTY</div> <div>THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING</div> <div>I TO MAINTAIN THE DOCUMENT IN CONFIDENCE</div> <div>II NOT TO REPRODUCE OR COPY IT</div> <div>III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART</div>																							
<div><div>APPLE COMPUTER INC.</div><div><div>SIZE D</div><div>DRAWING NUMBER ?</div><div>REV. ?</div></div><div><div>SCALE NONE</div><div>SHT ?</div><div>OF ?</div></div></div>																							
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	C480	14	CAP	C575	14	CAP	C671	24	CAP	D11	32	DIODE_SCHOT_3P	L40	30	IND								
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	C493	14	CAP	C588	18	CAP	C684	4	CAP	DS2	26	LED	L53	31	IND								
	C494	14	CAP	C589	5	CAP	C685	24	CAP	DS3	28	LED	L54	29	IND								
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C507	14	CAP	C603	27	CAP	C698	4	CAP	FL6	19	FILTER_12P	L67	26	IND									
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	R26	25	RES	R121	20	RES	R216	23	RES	R311	20	RES	R406	12	RES														
	R27	25	RES	R122	30	RES	R217	23	RES	R312	20	RES	R407	30	RES														
	R28	25	RES	R123	8	RES	R218	28	RES	R313	27	RES	R408	30	RES														
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	R30	9	RES	R125	28	RES	R220	23	RES	R315	21	RES	R410	25	RES														
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C	R34	16	RES	R129	30	RES	R224	28	RES	R319	25	RES	R414	30	RES	C													
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	R41	9	RES	R136	20	RES	R231	23	RES	R326	16	RES	R421	12	RES														
	R42	25	RES	R137	18	RES	R232	27	RES	R327	16	RES	R422	12	RES														
	R43	9	RES	R138	18	RES	R233	5	RES	R328	16	RES	R423	30	RES														
B	R44	9	RES	R139	18	RES	R234	5	RES	R329	16	RES	R424	30	RES	B													
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	R86	11	RES	R181	18	RES	R276	20	RES	R371	9	RES	R466	32	RES														
	R87	20	RES	R182	5	RES	R277	20	RES	R372	16	RES	R467	10	RES														
	R88	10	RES	R183	18	RES	R278	27	RES	R373	15	RES	R468	10	RES														
	R89	20	RES	R184	27	RES	R279	22	RES	R374	22	RES	R469	10	RES														
	R90	31	RES	R185	23	RES	R280	20	RES	R375	32	RES	R470	10	RES														
	R91	10	RES	R186	23	RES	R281	20	RES	R376	32	RES	R471	10	RES														
	R92	20	RES	R187	28	RES	R282	20	RES	R377	16	RES	R472	10	RES														
	R93	9	RES	R188	28	RES	R283	20	RES	R378	16	RES	R473	10	RES														
	R94	20	RES	R189	5	RES	R284	20	RES	R379	16	RES	R474	29	RES														
	R95	9	RES	R190	28	RES	R285	20	RES	R380	16	RES	R475	26	RES														
	R96	32	RES	R191	28	RES	R286	20	RES	R381	16	RES	R476	26	RES														
	R97	10	RES	R192	5	RES	R287	20	RES	R382	11	RES	R477	26	RES														
	R98	10	RES	R193	18	RES	R288	20	RES	R383	11	RES	R478	26	RES														
	R99	10	RES	R194	18	RES	R289	20	RES	R384	20	RES	R479	29	RES														
	R100	10	RES	R195	23	RES	R290	20	RES	R385	20	RES	R480	31	RES														
	R101	10	RES	R196	23	RES	R291	20	RES	R386	9	RES	R481	31	RES														
	R102	10	RES	R197	23	RES	R292	20	RES	R387	11	RES	R482	31	RES														
	R103	10	RES	R198	23	RES	R293	20	RES	R388	11	RES	R483	26	RES														
	R104	10	RES	R199	23	RES	R294	20	RES	R389	11	RES	R484	22	RES														
	R105	10	RES	R200	23	RES	R295	20	RES	R390	32	RES	R485	19	RES														
	R106	10	RES	R201	23	RES	R296	20	RES	R391	30	RES	R486	6	RES														
	R107	31	RES	R202	23	RES	R297	27	RES	R392	30	RES	R487	19	RES														
	R108	31	RES	R203	23	RES	R298	27	RES	R393	30	RES	R488	29	RES														
	R109	31	RES	R204	23	RES	R299	27	RES	R394	30	RES	R489	29	RES														
	R110	29	RES	R205	23	RES	R300	27	RES	R395	25	RES	R490	19	RES														
	R111	29	RES	R206	23	RES	R301	27	RES	R396	15	RES	R491	19	RES														
	R112	29	RES	R207	23	RES	R302	27	RES	R397	12	RES	R492	19	RES														
	R113	29	RES	R208	23	RES	R303	27	RES	R398	15	RES	R493	19	RES														
	R114	8	RES	R209	27	RES	R304	22	RES	R399	15	RES	R495	19	RES														
	R115	8	RES	R210	23	RES	R305	24	RES	R400	15	RES	R496	18	RES														
	R116	8	RES	R211	23	RES	R306	20	RES	R401	15	RES	R497	20	RES														
	R117	8	RES	R212	23	RES	R307	21	RES	R402	12	RES	R498	8	RES														
	R118	8	RES	R213	23	RES	R308	27	RES	R403	25	RES	R499	8	RES														
8			7			6			5			4			3			2			1								
<div><div><div><div><div><div></div><div>APPLE COMPUTER INC.</div></div></div><div><div>SIZE</div><div>DRAWING NUMBER</div><div>REV.</div></div><div><div>SCALE</div><div>SHT</div><div>OF</div><div></div></div></div></div><div><div>D</div><div>?</div><div>?</div></div></div>															<div><div>NOTICE OF PROPRIETARY PROPERTY</div><div>THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING</div><div>I TO MAINTAIN THE DOCUMENT IN CONFIDENCE</div><div>II NOT TO REPRODUCE OR COPY IT</div><div>III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART</div></div>														

8			7			6			5			4			3			2			1				
D	R500	31	RES	R595	23	RES	R746	21	RES	U31	27	LTC1628	D												
	R501	31	RES	R596	28	RES	R747	21	RES	U32	21	VREG_LP2951													
	R502	31	RES	R597	23	RES	R748	24	RES	U33	7	CLK_GEN_IMIC5003													
	R503	19	RES	R598	23	RES	R749	21	RES	U35	21	AT90S1200													
	R504	19	RES	R599	22	RES	R750	21	RES	U36	21	EEPROM_256X8													
	R505	19	RES	R600	22	RES	R751	21	RES	U38	19	SWI_TPS2023													
	R506	13	RES	R601	28	RES	R752	21	RES	VR1	22	VREG_EZ1582													
	R507	19	RES	R602	20	RES	R753	21	RES	VR2	22	VREG_EZ1582													
	R508	19	RES	R603	20	RES	R754	21	RES	VR3	22	VREG_EZ1582													
	R509	13	RES	R604	20	RES	R755	32	RES	VR4	21	VREG_EZ1582													
	R510	31	RES	R605	27	RES	R756	32	RES	VR5	28	VREG_EZ1582													
	R511	13	RES	R606	27	RES	R757	20	RES	XS1	31	STAR													
	R512	18	RES	R607	27	RES	R760	22	RES	XS2	30	STAR													
	R513	13	RES	R608	20	RES	R761	7	RES	XS3	29	STAR													
	R514	8	RES	R609	3	RES	R762	7	RES	XS4	32	STAR													
	R515	8	RES	R610	27	RES	R763	7	RES	XS5	29	STAR													
	R516	8	RES	R611	3	RES	R764	18	RES	XW1	28	SHORT													
	R517	8	RES	R612	22	RES	R765	18	RES	XW2	28	SHORT													
	R518	8	RES	R613	22	RES	R766	18	RES	XW3	31	SHORT													
	R519	24	RES	R614	21	RES	R767	22	RES	XW4	22	SHORT													
	R520	24	RES	R615	20	RES	R768	22	RES	XW5	27	SHORT													
	R521	26	RES	R616	20	RES	R769	22	RES	Y1	16	CRYSTAL													
	R522	8	RES	R617	22	RES	R780	28	RES	Y2	15	CRYSTAL													
	R523	8	RES	R618	21	RES	R781	28	RES	Y3	9	CRYSTAL													
C	R524	24	RES	R619	20	RES	RP1	20	RPAK4P	Y4	23	CRYSTAL	C												
	R525	24	RES	R620	21	RES	RP2	10	RPAK4P	Y5	23	CRYSTAL_4PIN													
	R526	26	RES	R621	21	RES	RP3	20	RPAK4P	Y6	18	CRYSTAL													
	R527	17	RES	R622	20	RES	RP4	13	RPAK4P	Y7	12	CRYSTAL													
	R528	24	RES	R623	20	RES	RP5	20	RPAK4P	Y8	7	CRYSTAL													
	R529	24	RES	R624	7	RES	RP6	13	RPAK4P	ZH1	33	MTGHOLE													
	R530	8	RES	R625	7	RES	RP7	6	RPAK4P	ZH2	33	MTGHOLE													
	R531	6	RES	R626	20	RES	RP8	20	RPAK4P	ZH3	33	MTGHOLE													
	R532	7	RES	R627	7	RES	RP9	8	RPAK4P	ZH4	28	MTGHOLE													
	R533	24	RES	R628	7	RES	RP10	20	RPAK4P	ZH40	26	PCB_STANDOFF													
	R534	24	RES	R629	20	RES	RP11	6	RPAK4P	ZH44	26	PCB_STANDOFF													
	R535	13	RES	R630	20	RES	RP12	20	RPAK4P																
	R536	13	RES	R631	27	RES	RP13	20	RPAK4P																
	R537	13	RES	R632	20	RES	RP14	20	RPAK4P																
	R538	8	RES	R633	22	RES	RP15	20	RPAK4P																
	R539	6	RES	R634	20	RES	RP16	20	RPAK4P																
	R540	8	RES	R635	7	RES	RP17	20	RPAK4P																
	R541	7	RES	R636	7	RES	RP18	20	RPAK4P																
	R542	18	RES	R637	7	RES	RP19	15	RPAK4P																
	R543	7	RES	R638	7	RES	RP20	10	RPAK4P																
	R544	18	RES	R639	27	RES	RP21	8	RPAK4P																
	R545	26	RES	R640	27	RES	RP22	6,8	RPAK4P																
	B	R546	6	RES	R641	21	RES	RP23	6,8	RPAK4P					B										
		R547	7	RES	R642	21	RES	RP24	8	RPAK4P															
R548		7	RES	R643	22	RES	RP25	17	RPAK4P																
R549		17	RES	R644	27	RES	RP26	8	RPAK4P																
R550		7	RES	R645	15	RES	RP27	17	RPAK4P																
R551		17	RES	R646	24	RES	RP28	6	RPAK4P																
R552		7	RES	R647	27	RES	RP29	6,8	RPAK4P																
R553		17	RES	R648	27	RES	RP30	17	RPAK4P																
R554		18	RES	R649	27	RES	RP31	6,8	RPAK4P																
R555		26	RES	R650	27	RES	RP32	17	RPAK4P																
R556		7	RES	R651	27	RES	RP33	8	RPAK4P																
R557		17	RES	R652	7	RES	RP34	6	RPAK4P																
R558		7	RES	R653	7	RES	RP35	7	RPAK4P																
R559		26	RES	R654	7	RES	S1	28	SWI_4RTSA1_SMB																
R560		7	RES	R655	20	RES	S2	28	SWI_4RTSA1_SMB																
R561		17	RES	R656	7	RES	S3	26	SWI_4RTSA1_SMB																
R562		5	RES	R657	7	RES	S4	23	SWI_TACT_4SM																
R563		17	RES	R667	7	RES	S5	23	SWI_TACT																
R564		5	RES	R668	7	RES	T1	15	XFR_100BT_MDIX																
R565		5	RES	R670	7	RES	U1	9	VREG_TL431																
R566		5	RES	R676	7	RES	U2	15	TRANSCEIVER_ENET_LXT971A																
R567		26	RES	R678	7	RES	U3	11	SGRAM_2MX32																
R568		18	RES	R680	7	RES	U4	32	AMP_TA2024																
R569		18	RES	R681	7	RES	U5	29	TAS3001C																
R570	5	RES	R721	20	RES	U6	5,6,8,13	PANGEA																	
R571	17	RES	R722	22	RES	U7	8	FEPR_1MX8																	
R572	7	RES	R723	31	RES	U8	23	M16C62																	
R573	26	RES	R724	31	RES	U9	7	74574																	
R574	26	RES	R725	31	RES	U10	22	VREG_LP2951																	
R575	20	RES	R726	31	RES	U11	23	VREG_TL431																	
R576	20	RES	R727	16	RES	U12	23	VDET_MC33465N_22ATR																	
R577	20	RES	R728	4	RES	U13	3,4	SCVGER483																	
R578	5	RES	R729	4	RES	U14	4	SRAM_DDR_153PBGA																	
R579	5	RES	R730	4	RES	U15	23	NC7SZ04																	
R580	7	RES	R731	4	RES	U16	18,25	74125																	
R581	17	RES	R732	21	RES	U17	16	FW802																	
R582	17	RES	R733	21	RES	U18	16	VREG_LP2951																	
R583	22	RES	R734	21	RES	U19	12	CLK_GEN_IMISM530																	
R584	17	RES	R735	21	RES	U20	29,30	OPAMP_TS924																	
R585	17	RES	R736	21	RES	U21	11	SGRAM_2MX32																	
R586	17	RES	R737	21	RES	U22	9,10,12	MONICA																	
R587	23	RES	R738	21	RES	U23	29	ADDAC_TLC320AD77C																	
R588	23	RES	R739	21	RES	U24	31	OPAMP_TS924																	
R589	23	RES	R740	21	RES	U25	29	VREG_LP2951																	
R590	28	RES	R741	21	RES	U26	29	VREG_LP2951																	
R591	23	RES	R742	21	RES	U27	31	ADC_CS5331																	
R592	22	RES	R743	21	RES	U28	23	MAX6328																	
R593	26	RES	R744	21	RES	U29	22	SWREG_LTC1735																	
R594	28	RES	R745	21	RES	U30	4	SRAM_DDR_153PBGA																	
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