1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%.
2. ALL CAPACITANCE VALUES ARE IN MICROFARADS.
3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ.

M38A - DVT

06/22/06

REV	ZONE	ECN	DESCRIPTION OF CHANGE	CK APPD DATE	ENG APPD DATE
13		445818	ENGINEERING RELEASED	06/22/06	06/22/04

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

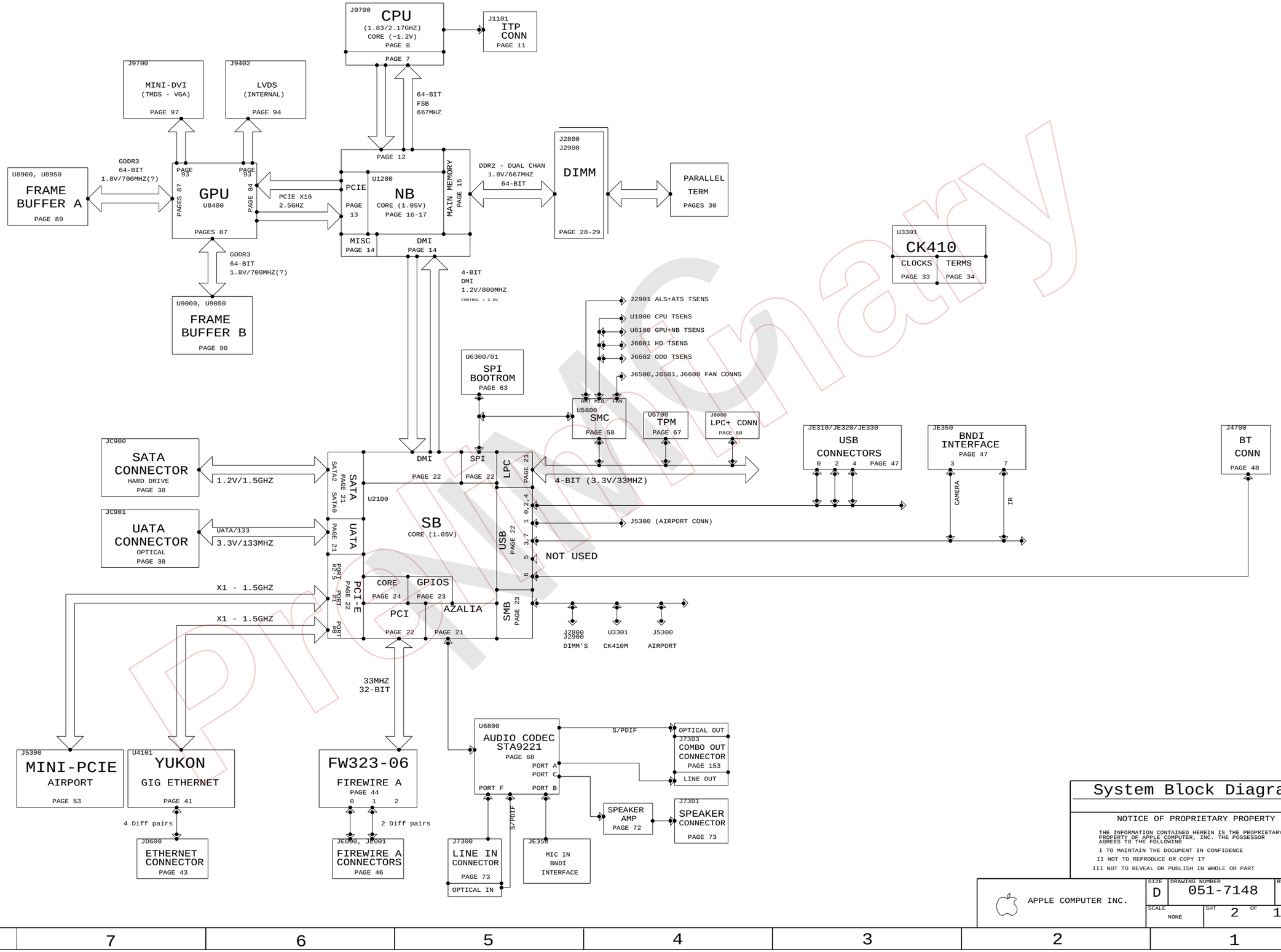
SIZE D

Apple Computer Inc.

TITLE
SCH,MLB,M38A

DRAWING NUMBER 051-7148 REV. 13

SHT 1 OF 110

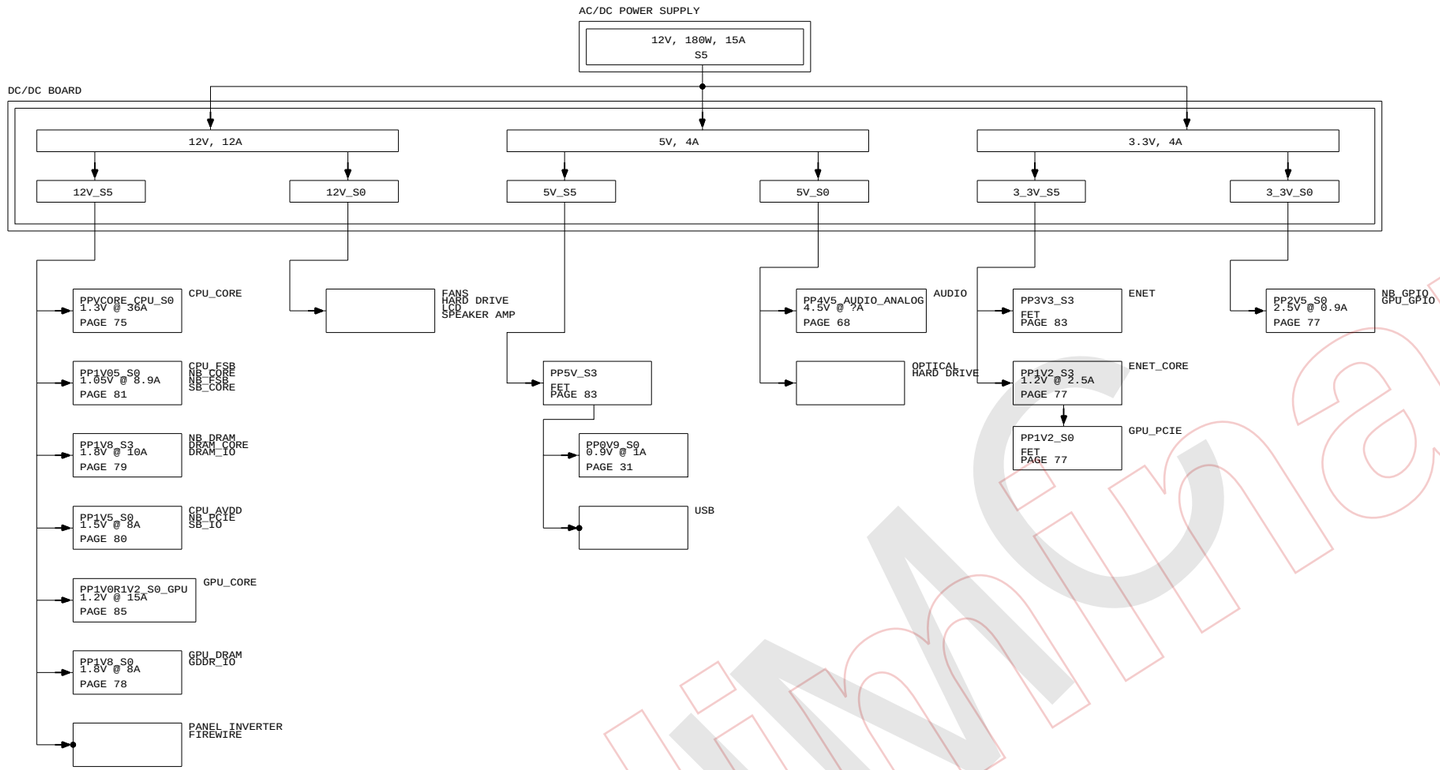


System Block Diagram

NOTICE OF PROPRIETARY PROPERTY

APPLE COMPUTER INC.

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



Power Block Diagram

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE	SHT	OF
NONE	3	110

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	
	343S0385	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,88E8053,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	
	341S1789	1	IC,TPM,TSSOP,28P	U6700	CRITICAL	LEMENU
UNSCREENED P/N 353S1235	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	

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
126S0096	126S0076		C7801	SANYO W16CE680KX 680UF 16V LF
126S0086	126S0078		C699,C940,C1900,C1901,C1968	SANYO W6CE330FS 330UF 6.3V LF
128S0080	128S0078		C7517,C7518,C7910	SANYO 16SVP330M 330UF 16V SMD LF
124-0338	124-0333		C7501,C8014	CAP,AL,EL,680UF,16V,RAD,10X12.5MM
138S0580	138S0552			22UF 0805
353S1321	353S1105		U7910	LM339
378S0141	378S0140		LED601,LED602,LED603	LED
353S1461	353S1465		U7500	CPU REGULATOR - ISL9504

	PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
	051-7148	1	PCB,SCHEM,MLB,M38A	SCH1		17_INCH_LCD
	820-2052	1	PCB,FAB,MLB,M38A	MLB1		17_INCH_LCD
(341S1908 - DEVEL) (341S1909 - FINAL) (335S0384 - BLNK)	341T0040	1	EFI ROM,M38A	U6301	CRITICAL	17_INCH_LCD
	114S0264	1	3.01K,1%,1/16W,402,MF-LF	R8522		GPU_VCORE_1P2V
(341S1907 - PROG) (338S0274 - BLNK)	341T0039	1	IC,SMC,M38A	U5800	CRITICAL	17_INCH_LCD
	338S0315	1	IC,ATI,M56LP,GRAFIX CTLR,880BGA,LF	U8400	CRITICAL	GPU_B26_LP
	114S0287	1	5.11K,1%,1/16W,402,MF-LF	R8522		GPU_VCORE_0P953V
	114S0281	1	4.53K,1%,1/16W,402,MF-LF	R8522		GPU_VCORE_1P0V
	337S3299	1	2.00GHZ MEROM	CPU	CRITICAL	2P00_CPU
	337S3293	1	2.16GHZ MEROM	CPU	CRITICAL	2P16_CPU

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
333S0354	4	IC,SGRAM,GDDR3,8MX32,700MHZ,136FBGA	U8900,U8950,U9000,U9050	CRITICAL	ATI_FB_128M_SAMSUNG
333S0358	4	IC,SGRAM,GDDR3,8MX32,700MHZ,136FBGA	U8900,U8950,U9000,U9050	CRITICAL	ATI_FB_128M_HYNIX
333S0376	4	IC,SGRAM,GDDR3,8MX32,700MHZ,136FBGA	U8900,U8950,U9000,U9050	CRITICAL	ATI_FB_128M_INFINEON

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
333S0350	4	IC,SGRAM,GDDR3,16MX32,700MHZ,136FBGA	U8900,U8950,U9000,U9050	CRITICAL	ATI_FB_256M_SAMSUNG
333S0351	4	IC,SGRAM,GDDR3,16MX32,700MHZ,136FBGA	U8900,U8950,U9000,U9050	CRITICAL	ATI_FB_256M_HYNIX
333S0377	4	IC,SGRAM,GDDR3,16MX32,700MHZ,136FBGA	U8900,U8950,U9000,U9050	CRITICAL	ATI_FB_256M_INFINEON

Table Items

APPLE COMPUTER INC.

SIZE D | DRAWING NUMBER 051-7148 | REV. 13

SCALE NONE | SHT 4 OF 110

LAYOUT NOTE: PLACE NEAR J0700

12 7 5	FSB_A_L<6>	PP600	OMIT P4MM
12 7 5	FSB_ADSTB_L<0>	PP601	OMIT P4MM
12 7 5	FSB_A_L<27>	PP602	OMIT P4MM
12 7 5	FSB_ADSTB_L<1>	PP603	OMIT P4MM
12 7 5	FSB_D_L<0>	PP604	OMIT P4MM
12 7 5	FSB_DSTBN_L<0>	PP605	OMIT P4MM
12 7 5	FSB_DSTBP_L<0>	PP606	OMIT P4MM
12 7 5	FSB_DINV_L<0>	PP607	OMIT P4MM
12 7 5	FSB_D_L<16>	PP608	OMIT P4MM
12 7 5	FSB_DSTBN_L<1>	PP609	OMIT P4MM
12 7 5	FSB_DSTBP_L<1>	PP610	OMIT P4MM
12 7 5	FSB_DINV_L<1>	PP611	OMIT P4MM
12 7 5	FSB_D_L<41>	PP612	OMIT P4MM
12 7 5	FSB_DSTBN_L<2>	PP613	OMIT P4MM
12 7 5	FSB_DSTBP_L<2>	PP614	OMIT P4MM
12 7 5	FSB_DINV_L<2>	PP615	OMIT P4MM
12 7 5	FSB_D_L<59>	PP616	OMIT P4MM
12 7 5	FSB_DSTBN_L<3>	PP617	OMIT P4MM
12 7 5	FSB_DSTBP_L<3>	PP618	OMIT P4MM
12 7 5	FSB_DINV_L<3>	PP619	OMIT P4MM
12 7 5	FSB_LOCK_L	PP620	OMIT P4MM
12 11 7	FSB_CPURST_L	PP621	OMIT P4MM
21 7	CPU_INIT_L	PP622	OMIT P4MM
21 7	CPU_A20M_L	PP623	OMIT P4MM
21 7	CPU_IGNNE_L	PP624	OMIT P4MM
21 7	CPU_STPCLK_L	PP625	OMIT P4MM
21 7	CPU_INTR	PP626	OMIT P4MM
21 7	CPU_NMI	PP627	OMIT P4MM
21 7	CPU_SMI_L	PP628	OMIT P4MM
34 7	FSB_CLK_CPU_P	PP629	OMIT P4MM
34 7	FSB_CLK_CPU_N	PP630	OMIT P4MM

LAYOUT NOTE: PLACE NEAR U2100

34 21	SB_CLK100M_SATA_P	PP6C4	OMIT P4MM
34 21	SB_CLK100M_SATA_N	PP6C5	OMIT P4MM
38 21	IDE_PDIOR_L	PP6C6	OMIT P4MM
38 21	IDE_PDIORDY	PP6C7	OMIT P4MM
38 21	IDE_PDD<9>	PP6C8	OMIT P4MM
34 22	PCI_CLK_SB	PP6D0	OMIT P4MM
41 22	PCIE_A_D2R_P	PP6D1	OMIT P4MM
41 22	PCIE_A_D2R_N	PP6D2	OMIT P4MM
53 22	PCIE_B_D2R_P	PP5E1	OMIT P4MM
53 22	PCIE_B_D2R_N	PP5E2	OMIT P4MM
22 14	DMI_N2S_P<0>	PP6D3	OMIT P4MM
22 14	DMI_N2S_N<0>	PP6D4	OMIT P4MM
34 22	SB_CLK100M_DMI_P	PP6D5	OMIT P4MM
34 22	SB_CLK100M_DMI_N	PP6D6	OMIT P4MM
58 26 23	PM_SYSRST_L	PP6D7	OMIT P4MM
58 44 23 67 60	PM_CLKRUN_L	PP6D8	OMIT P4MM
34 23	SB_CLK14P3M_TIMER	PP6D9	OMIT P4MM
34 23	SB_CLK48M_USBCTLR	PP6E0	OMIT P4MM

LAYOUT NOTE: PLACE NEAR U1200

12 7 5	FSB_A_L<6>	PP631	OMIT P4MM
12 7 5	FSB_ADSTB_L<0>	PP632	OMIT P4MM
12 7 5	FSB_A_L<27>	PP633	OMIT P4MM
12 7 5	FSB_ADSTB_L<1>	PP634	OMIT P4MM
12 7 5	FSB_D_L<0>	PP635	OMIT P4MM
12 7 5	FSB_DSTBN_L<0>	PP636	OMIT P4MM
12 7 5	FSB_DSTBP_L<0>	PP637	OMIT P4MM
12 7 5	FSB_DINV_L<0>	PP638	OMIT P4MM
12 7 5	FSB_D_L<16>	PP639	OMIT P4MM
12 7 5	FSB_DSTBN_L<1>	PP640	OMIT P4MM
12 7 5	FSB_DSTBP_L<1>	PP641	OMIT P4MM
12 7 5	FSB_DINV_L<1>	PP642	OMIT P4MM
12 7 5	FSB_D_L<41>	PP643	OMIT P4MM
12 7 5	FSB_DSTBN_L<2>	PP644	OMIT P4MM
12 7 5	FSB_DSTBP_L<2>	PP645	OMIT P4MM
12 7 5	FSB_DINV_L<2>	PP646	OMIT P4MM
12 7 5	FSB_D_L<59>	PP647	OMIT P4MM
12 7 5	FSB_DSTBN_L<3>	PP648	OMIT P4MM
12 7 5	FSB_DSTBP_L<3>	PP649	OMIT P4MM
12 7 5	FSB_DINV_L<3>	PP650	OMIT P4MM
12 7 5	FSB_LOCK_L	PP651	OMIT P4MM
12 7	FSB_HIT_L	PP652	OMIT P4MM
12 7	FSB_HITM_L	PP653	OMIT P4MM
12 7	FSB_BNR_L	PP654	OMIT P4MM
12 7	FSB_BREQ0_L	PP655	OMIT P4MM
12 7	FSB_DBSY_L	PP656	OMIT P4MM
12 7	FSB_DPWR_L	PP657	OMIT P4MM
12 7	FSB_REQ_L<0>	PP658	OMIT P4MM
12 7	FSB_REQ_L<1>	PP659	OMIT P4MM
12 7	FSB_REQ_L<2>	PP660	OMIT P4MM
12 7	FSB_REQ_L<3>	PP661	OMIT P4MM
12 7	FSB_REQ_L<4>	PP662	OMIT P4MM
34 12	FSB_CLK_NB_P	PP663	OMIT P4MM
34 12	FSB_CLK_NB_N	PP664	OMIT P4MM
75 26 14	VR_PWRGOOD_DELAY	PP665	OMIT P4MM
14	NB_RST_IN_L_R	PP666	OMIT P4MM
34 14	NB_CLK100M_GCLKIN_P	PP667	OMIT P4MM
34 14	NB_CLK100M_GCLKIN_N	PP668	OMIT P4MM
22 14	DMI_S2N_N<0>	PP673	OMIT P4MM
22 14	DMI_S2N_P<0>	PP674	OMIT P4MM
19 14	MEM_VREF_NB_0	PP6E1	OMIT P4MM
19 14	MEM_VREF_NB_1	PP675	OMIT P4MM
28 15	MEM_A_DQ<7>	PP676	OMIT P4MM
28 15	MEM_A_DQ<14>	PP677	OMIT P4MM
28 15	MEM_A_DQ<16>	PP678	OMIT P4MM
28 15	MEM_A_DQ<25>	PP679	OMIT P4MM
28 15	MEM_A_DQ<39>	PP680	OMIT P4MM
28 15	MEM_A_DQ<47>	PP681	OMIT P4MM
28 15	MEM_A_DQ<54>	PP682	OMIT P4MM
28 15	MEM_A_DQ<59>	PP683	OMIT P4MM
29 15	MEM_A_DQS_P<0>	PP684	OMIT P4MM
29 15	MEM_A_DQS_N<0>	PP685	OMIT P4MM
28 15	MEM_A_DQS_P<1>	PP686	OMIT P4MM
28 15	MEM_A_DQS_N<1>	PP687	OMIT P4MM
28 15	MEM_A_DQS_P<2>	PP688	OMIT P4MM
28 15	MEM_A_DQS_N<2>	PP689	OMIT P4MM
28 15	MEM_A_DQS_P<3>	PP690	OMIT P4MM
28 15	MEM_A_DQS_N<3>	PP691	OMIT P4MM
28 15	MEM_A_DQS_P<4>	PP692	OMIT P4MM
28 15	MEM_A_DQS_N<4>	PP693	OMIT P4MM
28 15	MEM_A_DQS_P<5>	PP694	OMIT P4MM
28 15	MEM_A_DQS_N<5>	PP695	OMIT P4MM
28 15	MEM_A_DQS_P<6>	PP696	OMIT P4MM
28 15	MEM_A_DQS_N<6>	PP697	OMIT P4MM
28 15	MEM_A_DQS_P<7>	PP698	OMIT P4MM
28 15	MEM_A_DQS_N<7>	PP699	OMIT P4MM
29 15	MEM_B_DQ<6>	PP6A0	OMIT P4MM
29 15	MEM_B_DQ<8>	PP6A1	OMIT P4MM
29 15	MEM_B_DQ<23>	PP6A2	OMIT P4MM
29 15	MEM_B_DQ<25>	PP6A3	OMIT P4MM
29 15	MEM_B_DQ<38>	PP6A4	OMIT P4MM
29 15	MEM_B_DQ<44>	PP6A5	OMIT P4MM
29 15	MEM_B_DQ<48>	PP6A6	OMIT P4MM
29 15	MEM_B_DQ<62>	PP6A7	OMIT P4MM
29 15	MEM_B_DQS_P<0>	PP6A8	OMIT P4MM
29 15	MEM_B_DQS_N<0>	PP6A9	OMIT P4MM
29 15	MEM_B_DQS_P<1>	PP6B0	OMIT P4MM
29 15	MEM_B_DQS_N<1>	PP6B1	OMIT P4MM
29 15	MEM_B_DQS_P<2>	PP6B2	OMIT P4MM
29 15	MEM_B_DQS_N<2>	PP6B3	OMIT P4MM
29 15	MEM_B_DQS_P<3>	PP6B4	OMIT P4MM
29 15	MEM_B_DQS_N<3>	PP6B5	OMIT P4MM
29 15	MEM_B_DQS_P<4>	PP6B6	OMIT P4MM
29 15	MEM_B_DQS_N<4>	PP6B7	OMIT P4MM
29 15	MEM_B_DQS_P<5>	PP6B8	OMIT P4MM
29 15	MEM_B_DQS_N<5>	PP6B9	OMIT P4MM
29 15	MEM_B_DQS_P<6>	PP6C0	OMIT P4MM
29 15	MEM_B_DQS_N<6>	PP6C1	OMIT P4MM
29 15	MEM_B_DQS_P<7>	PP6C2	OMIT P4MM
29 15	MEM_B_DQS_N<7>	PP6C3	OMIT P4MM

LAYOUT NOTE: PLACE NEAR U8400

89 87 5	FB_A_DQ<0>	PP8700	OMIT P4MM
89 87 5	FB_A_DQ<8>	PP8701	OMIT P4MM
89 87 5	FB_A_DQ<16>	PP8702	OMIT P4MM
89 87 5	FB_A_DQ<24>	PP8703	OMIT P4MM
89 87 5	FB_A_DQ<32>	PP8704	OMIT P4MM
89 87 5	FB_A_DQ<40>	PP8705	OMIT P4MM
89 87 5	FB_A_DQ<48>	PP8706	OMIT P4MM
89 87 5	FB_A_DQ<56>	PP8707	OMIT P4MM
89 87 5	FB_A_MA<3>	PP8708	OMIT P4MM
89 87	FB_A_RDQS<0>	PP8709	OMIT P4MM
89 87	FB_A_RDQS<1>	PP8710	OMIT P4MM
89 87	FB_A_RDQS<2>	PP8711	OMIT P4MM
89 87	FB_A_RDQS<3>	PP8712	OMIT P4MM
89 87	FB_A_RDQS<4>	PP8713	OMIT P4MM
89 87	FB_A_RDQS<5>	PP8714	OMIT P4MM
89 87	FB_A_RDQS<6>	PP8715	OMIT P4MM
89 87	FB_A_RDQS<7>	PP8716	OMIT P4MM
90 87 5	FB_B_DQ<0>	PP8720	OMIT P4MM
90 87 5	FB_B_DQ<8>	PP8721	OMIT P4MM
90 87 5	FB_B_DQ<16>	PP8722	OMIT P4MM
90 87 5	FB_B_DQ<24>	PP8723	OMIT P4MM
90 87 5	FB_B_DQ<32>	PP8724	OMIT P4MM
90 87 5	FB_B_DQ<40>	PP8725	OMIT P4MM
90 87 5	FB_B_DQ<48>	PP8726	OMIT P4MM
90 87 5	FB_B_DQ<56>	PP8727	OMIT P4MM
90 87 5	FB_B_MA<3>	PP8728	OMIT P4MM
90 87	FB_B_RDQS<0>	PP8729	OMIT P4MM
90 87	FB_B_RDQS<1>	PP8730	OMIT P4MM
90 87	FB_B_RDQS<2>	PP8731	OMIT P4MM
90 87	FB_B_RDQS<3>	PP8732	OMIT P4MM
90 87	FB_B_RDQS<4>	PP8733	OMIT P4MM
90 87	FB_B_RDQS<5>	PP8734	OMIT P4MM
90 87	FB_B_RDQS<6>	PP8735	OMIT P4MM
90 87	FB_B_RDQS<7>	PP8736	OMIT P4MM
84 34	GPU_CLK100M_PCIE_P	PP8400	OMIT P4MM
84 34	GPU_CLK100M_PCIE_N	PP8401	OMIT P4MM

PLACE NEAR U8900

89 87	FB_A_CKE<0>	PP8900	OMIT P4MM
89 87	FB_A_CLK_P<0>	PP8901	OMIT P4MM
89 87	FB_A_CLK_N<0>	PP8902	OMIT P4MM
89 87	FB_A_CS_L<0>	PP8903	OMIT P4MM
89 87	FB_A_WE_L<0>	PP8904	OMIT P4MM
89 87	FB_A_CAS_L<0>	PP8905	OMIT P4MM
89 87 5	FB_A_MA<3>	PP8906	OMIT P4MM
89 87	FB_A_RAS_L<0>	PP8907	OMIT P4MM
90 89 88 5	DRAM_RST	PP8908	OMIT P4MM
89 87	FB_A_WDQS<0>	PP8909	OMIT P4MM
89 87	FB_A_WDQS<1>	PP8910	OMIT P4MM
89 87	FB_A_WDQS<3>	PP8911	OMIT P4MM
89 87	FB_A_WDQS<2>	PP8912	OMIT P4MM
89 87 5	FB_A_DQ<0>	PP8913	OMIT P4MM
89 87 5	FB_A_DQ<8>	PP8914	OMIT P4MM
89 87 5	FB_A_DQ<16>	PP8915	OMIT P4MM
89 87 5	FB_A_DQ<24>	PP8916	OMIT P4MM

PLACE NEAR U8950

89 87	FB_A_CKE<1>	PP8920	OMIT P4MM
89 87	FB_A_CLK_P<1>	PP8921	OMIT P4MM
89 87	FB_A_CLK_N<1>	PP8922	OMIT P4MM
89 87	FB_A_CS_L<1>	PP8923	OMIT P4MM
89 87	FB_A_WE_L<1>	PP8924	OMIT P4MM
89 87	FB_A_CAS_L<1>	PP8925	OMIT P4MM
89 87	FB_A_RAS_L<1>	PP8926	OMIT P4MM
89 87 5	FB_A_MA<3>	PP8927	OMIT P4MM
90 89 88 5	DRAM_RST	PP8928	OMIT P4MM
89 87	FB_A_WDQS<5>	PP8929	OMIT P4MM
89 87	FB_A_WDQS<6>	PP8930	OMIT P4MM
89 87	FB_A_WDQS<4>	PP8931	OMIT P4MM
89 87	FB_A_WDQS<7>	PP8932	OMIT P4MM
89 87 5	FB_A_DQ<32>	PP8933	OMIT P4MM
89 87 5	FB_A_DQ<40>	PP8934	OMIT P4MM
89 87 5	FB_A_DQ<48>	PP8935	OMIT P4MM
89 87 5	FB_A_DQ<56>	PP8936	OMIT P4MM

LAYOUT NOTE: PLACE NEAR U4101

41 34	ENET_CLK100M_PCIE_P	PP4100	OMIT P4MM
41 34	ENET_CLK100M_PCIE_N	PP4101	OMIT P4MM

PLACE NEAR U9000

90 87	FB_B_CKE<0>	PP9000	OMIT P4MM
90 87	FB_B_CLK_P<0>	PP9001	OMIT P4MM
90 87	FB_B_CLK_N<0>	PP9002	OMIT P4MM
90 87	FB_B_CS_L<0>	PP9003	OMIT P4MM
90 87	FB_B_WE_L<0>	PP9004	OMIT P4MM
90 87	FB_B_CAS_L<0>	PP9005	OMIT P4MM
90 87	FB_B_RAS_L<0>	PP9006	OMIT P4MM
90 87 5	FB_B_MA<3>	PP9007	OMIT P4MM
90 89 88 5	DRAM_RST	PP9008	OMIT P4MM
90 87	FB_B_WDQS<0>	PP9009	OMIT P4MM
90 87	FB_B_WDQS<1>	PP9010	OMIT P4MM
90 87	FB_B_WDQS<3>	PP9011	OMIT P4MM
90 87	FB_B_WDQS<2>	PP9012	OMIT P4MM
90 87 5	FB_B_DQ<0>	PP9013	OMIT P4MM
90 87 5	FB_B_DQ<8>	PP9014	OMIT P4MM
90 87 5	FB_B_DQ<16>	PP9015	OMIT P4MM
90 87 5	FB_B_DQ<24>	PP9016	OMIT P4MM

PLACE NEAR U9050

90 87	FB_B_CKE<1>	PP9020	OMIT P4MM
90 87	FB_B_CLK_P<1>	PP9021	OMIT P4MM
90 87	FB_B_CLK_N<1>	PP9022	OMIT P4MM
90 87	FB_B_CS_L<1>	PP9023	OMIT P4MM
90 87	FB_B_WE_L<1>	PP9024	OMIT P4MM
90 87	FB_B_CAS_L<1>	PP9025	OMIT P4MM
90 87	FB_B_RAS_L<1>	PP9026	OMIT P4MM
90 87 5	FB_B_MA<3>	PP9027	OMIT P4MM
90 89 88 5	DRAM_RST	PP9028	OMIT P4MM
90 87	FB_B_WDQS<5>	PP9029	OMIT P4MM
90 87	FB_B_WDQS<6>	PP9030	OMIT P4MM
90 87	FB_B_WDQS<7>	PP9031	OMIT P4MM
90 87	FB_B_WDQS<4>	PP9032	OMIT P4MM
90 87 5	FB_B_DQ<32>	PP9033	OMIT P4MM
90 87 5	FB_B_DQ<40>	PP9034	OMIT P4MM
90 87 5	FB_B_DQ<48>	PP9035	OMIT P4MM
90 87 5	FB_B_DQ<56>	PP9036	OMIT P4MM

PLACE NEAR R1210 AND R1211

12	NB_FSB_VREF	PP1200	SM-TP50-TOP
19 12 6	=PP1V05_S0_FSB_NB	PP1201	SM-TP50-TOP
		PP1202	SM-TP50-TOP

PLACE NEAR R0705 AND R0706

11 9 8 7 6	=PP1V05_S0_CPU	PP700	SM-TP50-TOP
7	CPU_GTLREF	PP701	SM-TP50-TOP
		PP702	SM-TP50-TOP

PLACE NEAR R2800 AND R2801

29 28 6	=PP1V8_S3_MEM	PP2800	SM-TP50-TOP
29 28	MEM_VREF	PP2801	SM-TP50-TOP
		PP2802	SM-TP50-TOP

34	TP_PCI_CLK_SPARE	NO_TEST=TRUE	
29	TP_MEM_B_A<14>	NO_TEST=TRUE	
29	TP_MEM_B_A<15>	NO_TEST=TRUE	
43	ENET_MDI_R_N<0>	NO_TEST=TRUE	
43	ENET_MDI_R_N<1>	NO_TEST=TRUE	
43	ENET_MDI_R_N<2>	NO_TEST=TRUE	
43	ENET_MDI_R_N<3>	NO_TEST=TRUE	
43	ENET_MDI_R_P<0>	NO_TEST=TRUE	
43	ENET_MDI_R_P<1>	NO_TEST=TRUE	
43	ENET_MDI_R_P<2>	NO_TEST=TRUE	
43	ENET_MDI_R_P<3>	NO_TEST=TRUE	

77 76 66 65 59 26 11 6	PP3V3_S5	FUNC_TEST=TRUE	
83 81 80 79 59 6	PP5V_S5	FUNC_TEST=TRUE	
88 83 81 80 79 78 77 11 6	PP12V_S5	FUNC_TEST=TRUE	
79 6	PP1V8_S3	FUNC_TEST=TRUE	
76 75 6	PPVCORE_CPU	FUNC_TEST=TRUE	
26 25 24 21	PP3V3_S5_S8_RTC	FUNC_TEST=TRUE	
	8 TESTPOINTS	FUNC_TEST=TRUE	

60 59 58	SMC_TCK	FUNC_TEST=TRUE	
60 59 58	SMC_TDI	FUNC_TEST=TRUE	
60 59 58	SMC_TDO	FUNC_TEST=TRUE	
60 59 58	SMC_TMS	FUNC_TEST=TRUE	
60 58	SMC_TRST_L	FUNC_TEST=TRUE	
60 59 58	SMC_TX_L	FUNC_TEST=TRUE	
60 59 58	SMC_RX_L	FUNC_TEST=TRUE	
59	SMC_MANUAL_RST_L	FUNC_TEST=TRUE	
11 7	XDP_TCK	FUNC_TEST=TRUE	
11 7	XDP_TDI	FUNC_TEST=TRUE	
11 7	XDP_TDO	FUNC_TEST=TRUE	
11 7	XDP_TMS	FUNC_TEST=TRUE	
11 7	XDP_TRST_L	FUNC_TEST=TRUE	
59	POWER_BUTTON_L	FUNC_TEST=TRUE	
26	SW_RST_BTN_L	FUNC_TEST=TRUE	

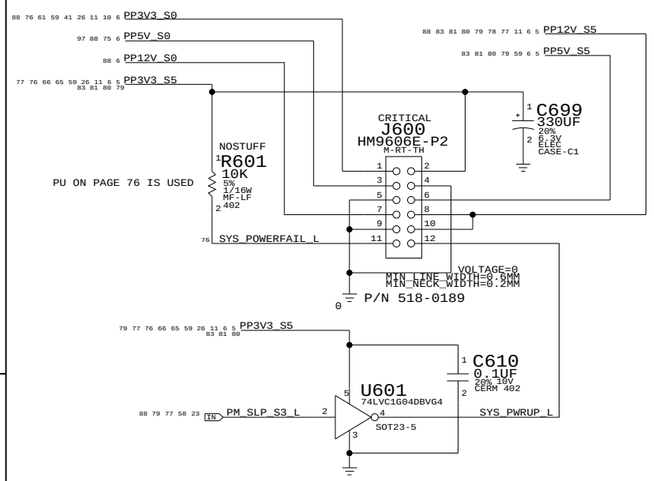
MISC GROUND VIAS

ZH500 HOLE-VIA	ZH510 HOLE-VIA	ZH520 HOLE-VIA
ZH501 HOLE-VIA	ZH511 HOLE-VIA	ZH521 HOLE-VIA
ZH502 HOLE-VIA	ZH512 HOLE-VIA	ZH522 HOLE-VIA
ZH503 HOLE-VIA	ZH513 HOLE-VIA	ZH523 HOLE-VIA
ZH504 HOLE-VIA	ZH514 HOLE-VIA	ZH524 HOLE-VIA
ZH505 HOLE-VIA	ZH515 HOLE-VIA	ZH525 HOLE-VIA
ZH506 HOLE-VIA	ZH516 HOLE-VIA	ZH526 HOLE-VIA
ZH507 HOLE-VIA	ZH517 HOLE-VIA	ZH527 HOLE-VIA
ZH508 HOLE-VIA	ZH518 HOLE-VIA	ZH528 HOLE-VIA
ZH509 HOLE-VIA	ZH519 HOLE-VIA	ZH529 HOLE-VIA

FUNC TEST 1 OF 2

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT 5 OF 110	



"S0" RAILS

ONLY ON IN RUN

PP0V9_S0 → =PP0V9_S0_MEMVTT_LDO, =PP0V9_S0_MEM_TERM
PPVCORE_CPU → =PPVCORE_S0_CPU
PP1V05_S0 → =PPVCORE_S0_NB, =PP1V05_S0_CPU, =PP1V05_S0_FSB_NB, =PP1V05_S0_NB_VTT, =PP1V05_S0_NB, =PP1V05_S0_SB_CPU_IO, =PPVCORE_S0_SB
PP1V5_S0 → =PP1V5_S0_CPU, =PP1V5_S0_NB_PCIE, =PP1V5_S0_NB_VCCAUX, =PP1V5_S0_NB_VCCD_HMPLL, =PP1V5_S0_NB_VCCAUX, =PP1V5_S0_NB_PLL, =PP1V5_S0_NB, =PP1V5_S0_NB_TVDAC, =PP1V5_S0_NB_3GPLL, =PP1V5_S0_SB_VCC1_5_A_ARX, =PP1V5_S0_SB_VCCSATAPLL, =PP1V5_S0_SB_VCC1_5_A_ATX, =PP1V5_S0_SB_VCCUSBPLL, =PP1V5_S0_SB_VCC1_5_A_USB_CORE, =PP1V5_S0_SB_VCC1_5_A, =PP1V5_S0_SB, =PP1V5_S0_AIRPORT
PP2V5_S0 → =PP2V5_S0_NB_VCCA_3GBG
PP3V3_S0 → =PP3V3_S0_NB_PM, =PP3V3_S0_NB_VCC_HV, =PP3V3_S0_NB_TVDAC, =PP3V3_S0_SB, =PP3V3_S0_SB_GPIO, =PP3V3_S0_SB_VCC3_3, =PP3V3_S0_SB_VCC3_3_PCI, =PP3V3_S0_SB_VCC3_3_IDE, =PP3V3_S0_SB_PCI, =PP3V3_S0_SB_PM, =PP3V3_S0_PATA, =PP3V3_S0_FAN, =PP3V3_S0_HD_TSENS, =PP3V3_S0_ODD_TSENS, =PP3V3_S0_SB_3V3_1V5_VCCHDA, =PP3V3_S0_TPM, =PPSPD_S0_MEM, =PP3V3_S0_CK410, =PP3V3_S0_IMVP, =PP3V3_S0_AUDIO, =PP3V3_S0_PCI, =PP3V3_S0_SB_VCCLAN3_3, =PP3V3_S0_AIRPORT, =PP3V3_S0_2V5REG, =PP3V3_S0_NB
PP5V_S0 → =PP5V_S0_SB, =PP5V_S0_PATA, XW604 (SM OMIT) PP5V_S0_AUDIO → =PP5V_S0_AUDIO, =PP5V_S0_DEBUG
PP12V_S0 → =PP12V_S0_FAN, XW605 (SM OMIT) PP12V_S0_AUDIO_SPKRAMP → =PP12V_S0_AUDIO_SPKRAMP (MAKE_BASE=TRUE)

"S3" RAILS

ON IN RUN AND SLEEP

PP1V2_S3 → =PP1V2_S3_LAN
PP1V8_S3 → =PP1V8_S3_MEM_NB, =PP1V8_S3_MEM_NB, =PP1V8_S3_MEM, =PP1V8_S0_MEMVTT
PP3V3_S3 → =PP3V3_S3_ENET, =PP3V3_S3_TPM, =PP3V3_S3_1V2REG, =PP3V3_S3_BT, =PP3V3_S3_USB, =PP3V3_S3_VGASYNC
PP5V_S3 → =PP5V_S3_USB, =PP5V_S3_BNDI, =PP5V_S0_MEMVTT

"S5" RAILS

ALWAYS ON WHEN UNIT HAS AC POWER (TRICKLE)

PP3V3_S5 → =PP3V3_S5_SB, =PP3V3_S5_SB_USB, =PP3V3_S5_SB_PM, =PP3V3_S5_SB_VCCSUS3_3, =PP3V3_S5_SB_VCCSUS3_3_USB, =PP3V3_S5_SB_3V3_1V5_VCCSUSHDA, =PP3V3_S5_SB_IO, =PP3V3_S5_FW, =PP3V3_S5_SMC, =PP3V3_S5_DEBUG, =PP3V3_S5_ROM
PP5V_S5 → =PP5V_S5_SB
PP12V_S5 → =PP12V_S5_FW, =PP12V_S5_CPU

GND RAILS

XW601 SM NOSTUFF — GND_AUDIO
XW602 SM NOSTUFF — GND_AUDIO_SPKRAMP

CHASSIS GND

R603 0 5% 1/16W MF-LF 402 NOSTUFF
GND_CHASSIS_IO_LEFT (MAKE_BASE=TRUE, VOLTAGE=0, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.2MM)
GND_CHASSIS_AUDIO_EXTERNAL
GND_CHASSIS_USB
GND_CHASSIS_FIREWIRE
GND_CHASSIS_VGA
GND_CHASSIS_RJ45
GND_CHASSIS_IO_RIGHT (MAKE_BASE=TRUE, VOLTAGE=0, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.2MM)
GND_CHASSIS_AUDIO_INTERNAL
GND_CHASSIS_BNDI (MIN_NECK_WIDTH=0.2MM, MIN_LINE_WIDTH=0.8MM, VOLTAGE=0, MAKE_BASE=TRUE)

ZH604 4P25R3P5 OMIT — ZH704P1
ZH601 4P25R3P5 OMIT — ZH701P1
ZH602 4P25R3P5 OMIT — ZH702P1
ZH603 4P25R3P5 OMIT — ZH703P1
C604 0.01UF 20% 16V CERM 402 NOSTUFF
C601 0.01UF 20% 16V CERM 402 NOSTUFF
C602 0.01UF 20% 16V CERM 402 NOSTUFF
C603 0.01UF 20% 16V CERM 402 NOSTUFF
ZH606 160R138 OMIT

Power Conn / Alias

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT 6 OF 110	

OMIT

J0700
YONAH-SKT
CPU
BGA
(1 OF 4)

ADDR GROUP0

FSB_A_L<3>	J4	A3*
FSB_A_L<4>	L4	A4*
FSB_A_L<5>	M3	A5*
FSB_A_L<6>	K5	A6*
FSB_A_L<7>	M1	A7*
FSB_A_L<8>	N2	A8*
FSB_A_L<9>	J1	A9*
FSB_A_L<10>	N3	A10*
FSB_A_L<11>	P5	A11*
FSB_A_L<12>	P2	A12*
FSB_A_L<13>	L1	A13*
FSB_A_L<14>	P4	A14*
FSB_A_L<15>	P1	A15*
FSB_A_L<16>	R1	A16*
FSB_ADSTB_L<0>	L2	ADSTB0*

ADDR GROUP1

FSB_A_L<17>	Y2	A17*
FSB_A_L<18>	U5	A18*
FSB_A_L<19>	R3	A19*
FSB_A_L<20>	W6	A20*
FSB_A_L<21>	U4	A21*
FSB_A_L<22>	Y5	A22*
FSB_A_L<23>	U2	A23*
FSB_A_L<24>	R4	A24*
FSB_A_L<25>	T5	A25*
FSB_A_L<26>	T3	A26*
FSB_A_L<27>	W3	A27*
FSB_A_L<28>	W5	A28*
FSB_A_L<29>	Y4	A29*
FSB_A_L<30>	W2	A30*
FSB_A_L<31>	Y1	A31*
FSB_ADSTB_L<1>	V4	ADSTB1*

REQ

FSB_REQ_L<0>	K3	REQ0*
FSB_REQ_L<1>	H2	REQ1*
FSB_REQ_L<2>	K2	REQ2*
FSB_REQ_L<3>	J3	REQ3*
FSB_REQ_L<4>	L5	REQ4*

CONTROL

ADS*	H1	FSB_ADS_L
BNR*	E2	FSB_BNR_L
BPRI*	G5	FSB_BPRI_L
DEFER*	H5	FSB_DEFER_L
DRDY*	F21	FSB_DRDY_L
DBSY*	E1	FSB_DBSY_L
BR0*	F1	FSB_BREQ0_L
IERR*	D20	FSB_IERR_L
INIT*	B3	CPU_INIT_L
LOCK*	H4	FSB_LOCK_L
RESET*	B1	FSB_CPURST_L
RS0*	F3	FSB_RS_L<0>
RS1*	F4	FSB_RS_L<1>
RS2*	G3	FSB_RS_L<2>
TRDY*	G2	FSB_TRDY_L
HIT*	G6	FSB_HIT_L
HITM*	E4	FSB_HITM_L

XDP/ITP SIGNALS

BPM0*	AD4	XDP_BPM_L<0>
BPM1*	AD3	XDP_BPM_L<1>
BPM2*	AD1	XDP_BPM_L<2>
BPM3*	AC4	XDP_BPM_L<3>
PRDY*	AC2	XDP_BPM_L<4>
PREQ*	AC1	XDP_BPM_L<5>
TCK	AC5	XDP_TCK
TDI	AA6	XDP_TDI
TDO	AB3	XDP_TDO
TMS	AB5	XDP_TMS
TRST*	AB6	XDP_TRST_L
DBR*	C20	XDP_DBRESET_L

NOTE: DUMMY PIN
PIN ACTUALLY DRIVEN BY ITP

THERM

PROCHOT*	D21	CPU_PROCHOT_L
THERMDA	A24	CPU_THERMD_P
THERMDC	A25	CPU_THERMD_N
THERMTRIP*	C7	PM_THRMTRIP_L

HCLK

BCLK0	A22	FSB_CLK_CPU_P
BCLK1	A21	FSB_CLK_CPU_N

RESERVED

TP_CPU_A32_L	AA1	RSVD1
TP_CPU_A33_L	AA4	RSVD2
TP_CPU_A34_L	AB2	RSVD3
TP_CPU_A35_L	AA3	RSVD4
TP_CPU_A36_L	M4	RSVD5
TP_CPU_A37_L	N5	RSVD6
TP_CPU_A38_L	T2	RSVD7
TP_CPU_A39_L	V3	RSVD8
TP_CPU_APM0_L	B2	RSVD9
TP_CPU_APM1_L	C3	RSVD10
TP_CPU_HFPLL	B25	RSVD11
RSVD12	T22	TP_CPU_EXTBREF
RSVD13	D2	TP_CPU_SPARE0
RSVD14	F6	TP_CPU_SPARE1
RSVD15	D3	TP_CPU_SPARE2
RSVD16	C1	TP_CPU_SPARE3
RSVD17	AF1	TP_CPU_SPARE4
RSVD18	D22	TP_CPU_SPARE5
RSVD19	C23	TP_CPU_SPARE6
RSVD20	C24	TP_CPU_SPARE7

CPU_A20M_L	A6	A20M*
CPU_FERR_L	A5	FERR*
CPU_IGNNE_L	C4	IGNNE*
CPU_STPCLK_L	D5	STPCLK*
CPU_INTR	C6	LINT0
CPU_NMI	B4	LINT1
CPU_SMI_L	A3	SMI*

=PP1V05_S0_CPU

R0702 54.9 1% 1/16W MF-LF 402

CPU SCH AND PCB SYMBOL NEED TO CHECK

PLACE TESTPOINT ON FSB_IERR# WITH A GND 0.1" AWAY

R0701 54.9 1% 1/16W MF-LF 402

R0703 54.9 1% 1/16W MF-LF 402

R0704 68 5% 1/16W MF-LF 402

NO SPACE FOR ITP CONNECTOR, NEED TERM ON ITP SIGNALS?

CPU_PROCHOT_L TO SMC AND CPU VR TO INFORM CPU IS HOT

PM_THRMTRIP# SHOULD CONNECT TO ICH6-M AND GMCH WITHOUT T-ING (NO STUB)

SPARE[7-0],HFPLL: ROUTE TO TP VIA AND PLACE GND VIA W/IN 1000 MILS

=PP1V05_S0_CPU

R0705 1K 1% 1/16W MF-LF 402

R0706 2.0K 1% 1/16W MF-LF 402

LAYOUT NOTE: 0.5" MAX LENGTH

CPU_GTLREF

CPU_TEST1

CPU_TEST2

CPU_BSEL<0>

CPU_BSEL<1>

CPU_BSEL<2>

NOSTUFF R0730 0 402

R0707 51 5% 1/16W MF-LF 402

NOSTUFF R0712 1K 5% 1/16W MF-LF 402

R0720 54.9 1% 1/16W MF-LF 402 — XDP_TMS

R0721 54.9 1% 1/16W MF-LF 402 — XDP_TDI

R0722 54.9 1% 1/16W MF-LF 402 — XDP_TCK

OMIT

J0700
YONAH-SKT
CPU
BGA
(2 OF 4)

DATA GRP0

FSB_D_L<0>	E22	D0*
FSB_D_L<1>	F24	D1*
FSB_D_L<2>	E26	D2*
FSB_D_L<3>	H22	D3*
FSB_D_L<4>	F23	D4*
FSB_D_L<5>	G25	D5*
FSB_D_L<6>	E25	D6*
FSB_D_L<7>	E23	D7*
FSB_D_L<8>	K24	D8*
FSB_D_L<9>	G24	D9*
FSB_D_L<10>	J24	D10*
FSB_D_L<11>	J23	D11*
FSB_D_L<12>	H26	D12*
FSB_D_L<13>	F26	D13*
FSB_D_L<14>	K22	D14*
FSB_D_L<15>	H25	D15*
FSB_DSTBN_L<0>	H23	DSTBN0*
FSB_DSTBP_L<0>	G22	DSTBP0*
FSB_DINV_L<0>	J26	DINV0*

DATA GRP1

FSB_D_L<16>	N22	D16*
FSB_D_L<17>	K25	D17*
FSB_D_L<18>	P26	D18*
FSB_D_L<19>	R23	D19*
FSB_D_L<20>	L25	D20*
FSB_D_L<21>	L22	D21*
FSB_D_L<22>	L23	D22*
FSB_D_L<23>	M23	D23*
FSB_D_L<24>	P25	D24*
FSB_D_L<25>	P22	D25*
FSB_D_L<26>	P23	D26*
FSB_D_L<27>	T24	D27*
FSB_D_L<28>	R24	D28*
FSB_D_L<29>	L26	D29*
FSB_D_L<30>	T25	D30*
FSB_D_L<31>	N24	D31*
FSB_DSTBN_L<1>	M24	DSTBN1*
FSB_DSTBP_L<1>	N25	DSTBP1*
FSB_DINV_L<1>	M26	DINV1*

DATA GRP2

D32*	AA23	FSB_D_L<32>
D33*	AB24	FSB_D_L<33>
D34*	V24	FSB_D_L<34>
D35*	V26	FSB_D_L<35>
D36*	W25	FSB_D_L<36>
D37*	U23	FSB_D_L<37>
D38*	U25	FSB_D_L<38>
D39*	U22	FSB_D_L<39>
D40*	AB25	FSB_D_L<40>
D41*	W22	FSB_D_L<41>
D42*	Y23	FSB_D_L<42>
D43*	AA26	FSB_D_L<43>
D44*	Y26	FSB_D_L<44>
D45*	Y22	FSB_D_L<45>
D46*	AC26	FSB_D_L<46>
D47*	AA24	FSB_D_L<47>
DSTBN2*	W24	FSB_DSTBN_L<2>
DSTBP2*	Y25	FSB_DSTBP_L<2>
DINV2*	V23	FSB_DINV_L<2>

DATA GRP3

D48*	AC22	FSB_D_L<48>
D49*	AC23	FSB_D_L<49>
D50*	AB22	FSB_D_L<50>
D51*	AA21	FSB_D_L<51>
D52*	AB21	FSB_D_L<52>
D53*	AC25	FSB_D_L<53>
D54*	AD20	FSB_D_L<54>
D55*	AE22	FSB_D_L<55>
D56*	AF23	FSB_D_L<56>
D57*	AD24	FSB_D_L<57>
D58*	AE21	FSB_D_L<58>
D59*	AD21	FSB_D_L<59>
D60*	AE25	FSB_D_L<60>
D61*	AF25	FSB_D_L<61>
D62*	AF22	FSB_D_L<62>
D63*	AF26	FSB_D_L<63>
DSTBN3*	AD23	FSB_DSTBN_L<3>
DSTBP3*	AE24	FSB_DSTBP_L<3>
DINV3*	AC20	FSB_DINV_L<3>

MISC

COMP0	R26	CPU_COMP<0>
COMP1	U26	CPU_COMP<1>
COMP2	U1	CPU_COMP<2>
COMP3	V1	CPU_COMP<3>
DPRSTP*	E5	CPU_DPRSTP_L
DPSLP*	B5	CPU_DPSLP_L
DPWR*	D24	FSB_DPWR_L
PWRGOOD	D6	CPU_PWRGD
SLP*	D7	FSB_SLPCPU_L
PSI*	AE6	CPU_PSI_L

LAYOUT NOTE:
COMP0,2 CONNECT WITH ZO=27.4OHM, MAKE TRACE LENGTH SHORTER THAN 0.5".
COMP1,3 CONNECT WITH ZO=55OHM, MAKE TRACE LENGTH SHORTER THAN 0.5".

R0716 27.4 1% 402

R0717 54.9 1% 402

R0718 27.4 1% 402

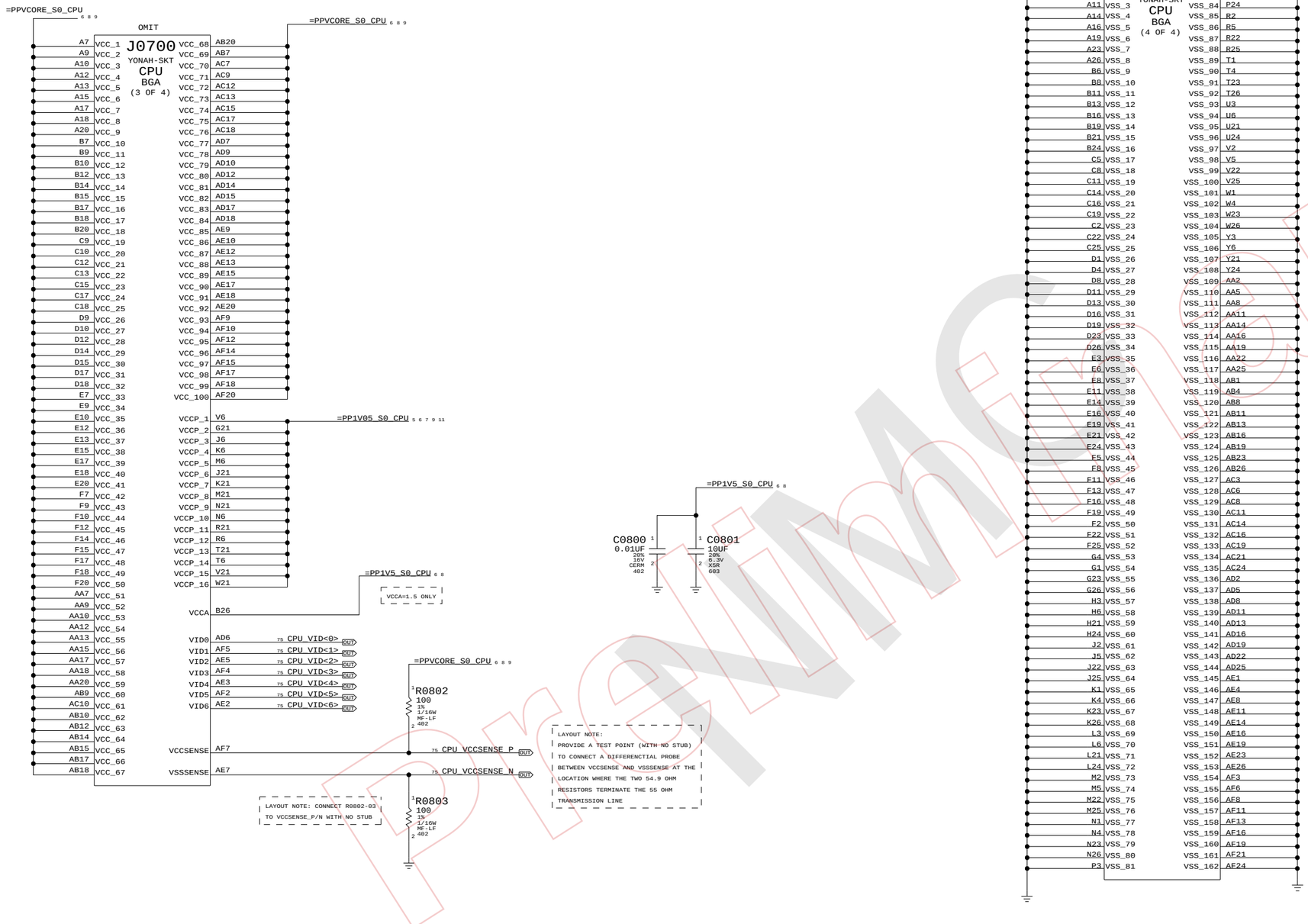
R0719 54.9 1% 402

CPU 1 OF 2-FSB

SYNC_MASTER=MASTER SYNC_DATE=05/03/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT 7 OF 110	



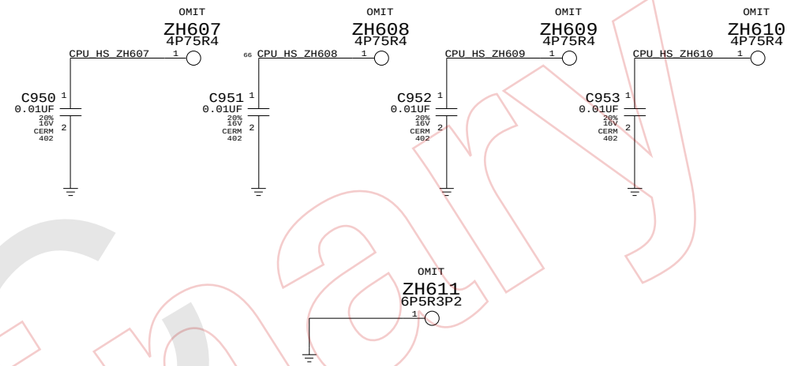
CPU 2 OF 2-PWR/GND

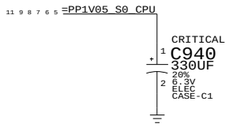
SYNC_MASTER=MASTER SYNC_DATE=05/03/2005

APPLE COMPUTER INC.

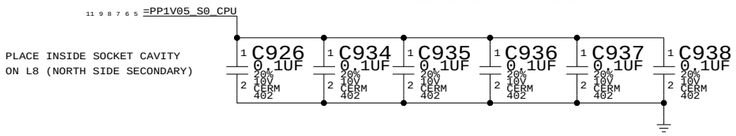
SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT 8 OF 110	

CPU HEATSINK MOUNTING HOLES

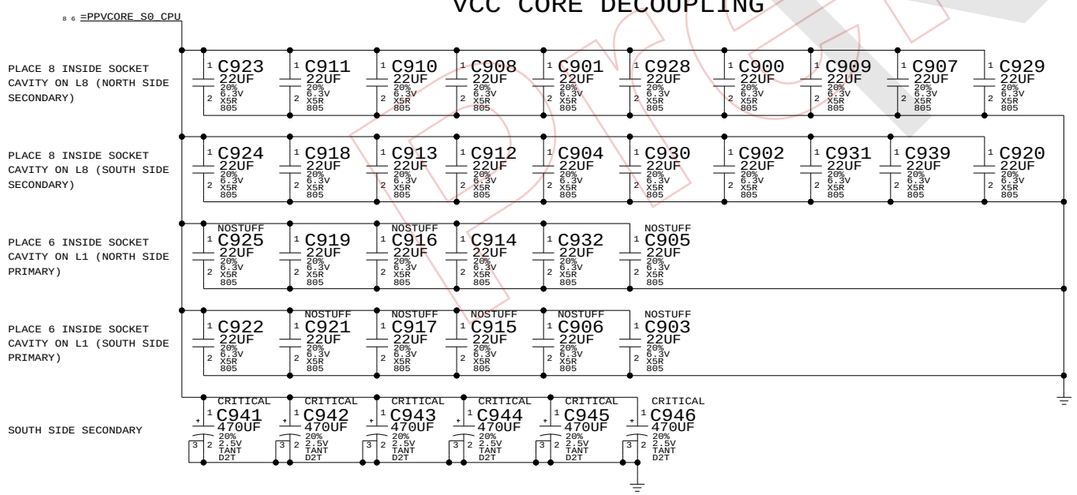




VCCP CORE DECOUPLING



VCC CORE DECOUPLING



CPU DECAPS & VID<>

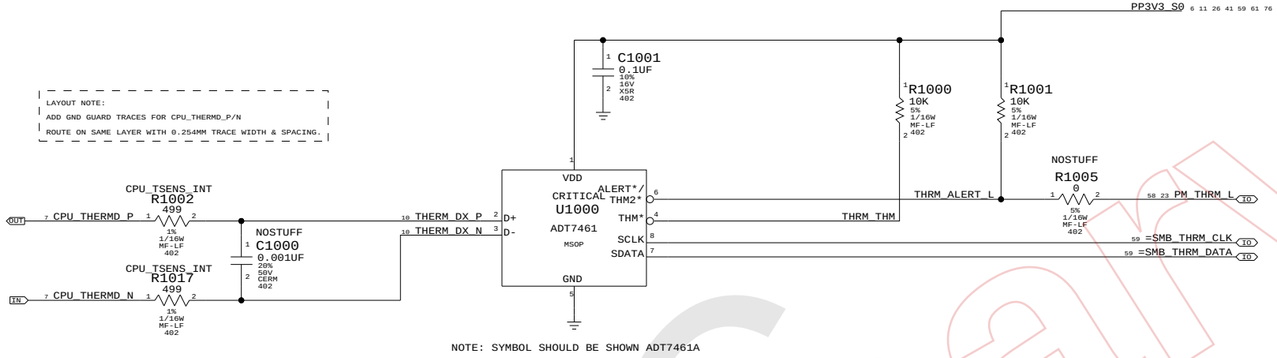
APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE	SHT	OF
NONE	9	110

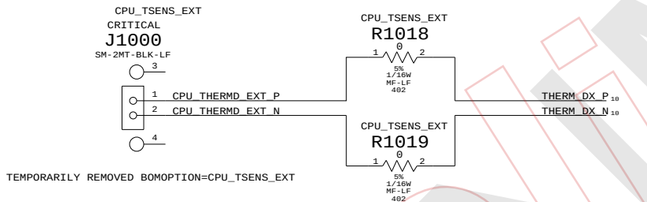
CPU THERMAL SENSOR

NOTE:
IF CPU T DIODE TO BE READ IN OFF STATE,
THEN THIS SHOULD BE S5



NOTE: SYMBOL SHOULD BE SHOWN ADT7461A

LAYOUT NOTE:
PLACE R1002 AND R1018 SUCH THAT THEY SHARE ONE PAD
PLACE R1017 AND R1019 SUCH THAT THEY SHARE ONE PAD



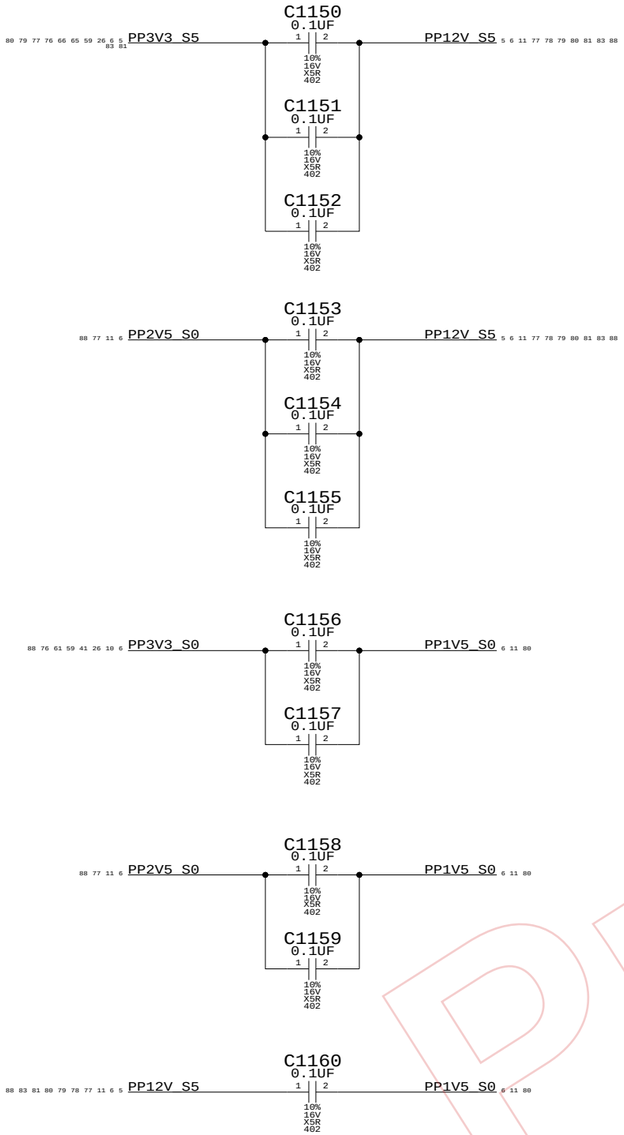
TEMPORARILY REMOVED BOMOPTION=CPU_TSENS_EXT

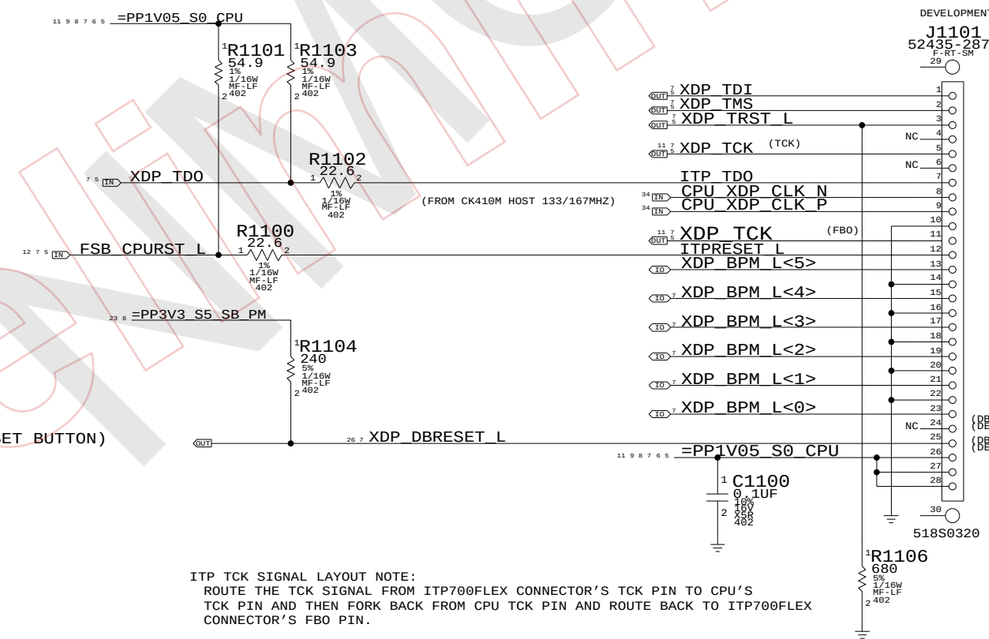
CPU TEMP SENSOR

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT 10 OF 110	

CPU ITP700FLEX DEBUG SUPPORT





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.

NOTE: PLACE C1199 AT J1101 PINS 13 AND 14

(DBA#) INDICATE THAT ITP IS USING TAP I/F, NC IN 945GM CHIPSET SYSTEM.
(DEBUG PORT ACTIVE)
(DBR#) TO ICH7M SYS_RST*, AND WITH SYSTEM RESET LOGIC
(DEBUG PORT RESET)

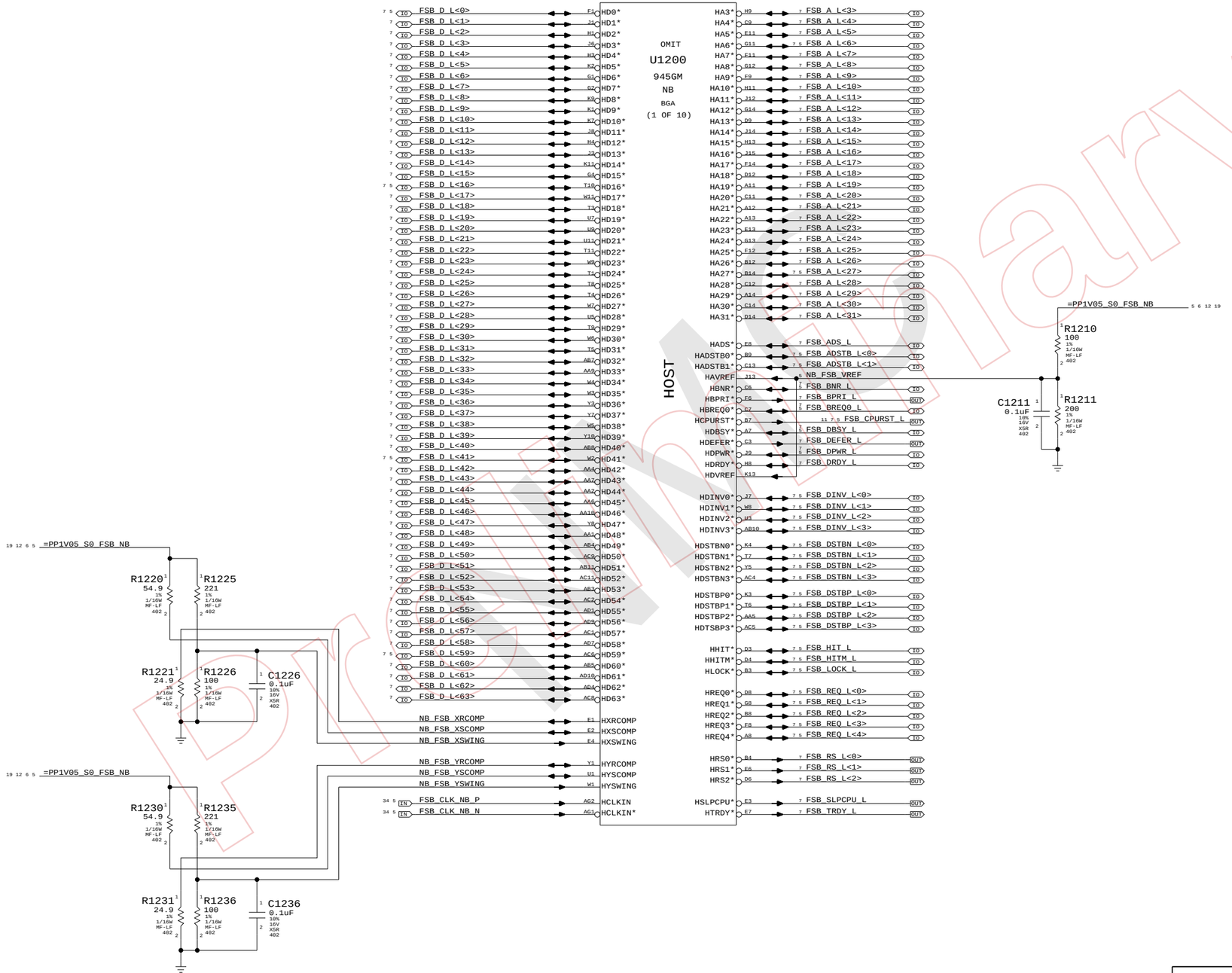
CPU ITP700FLEX DEBUG

SYNC_MASTER=MASTER SYNC_DATE=5/23/05

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE	SHT	OF
NONE	11	110



NB CPU Interface

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

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

LVDS Disable

Can leave all signals NC if LVDS is not implemented
Tie VCC_TXLVDS and VCCA_LVDS to GND. If SDVO is used
VCCD_LVDS must remain powered with proper decoupling.
Otherwise, tie VCCD_LVDS to GND also.

TV-Out Signal Usage:

Composite: DACA only
S-Video: DACB & DACC only
Component: DACA, DACB & DACC

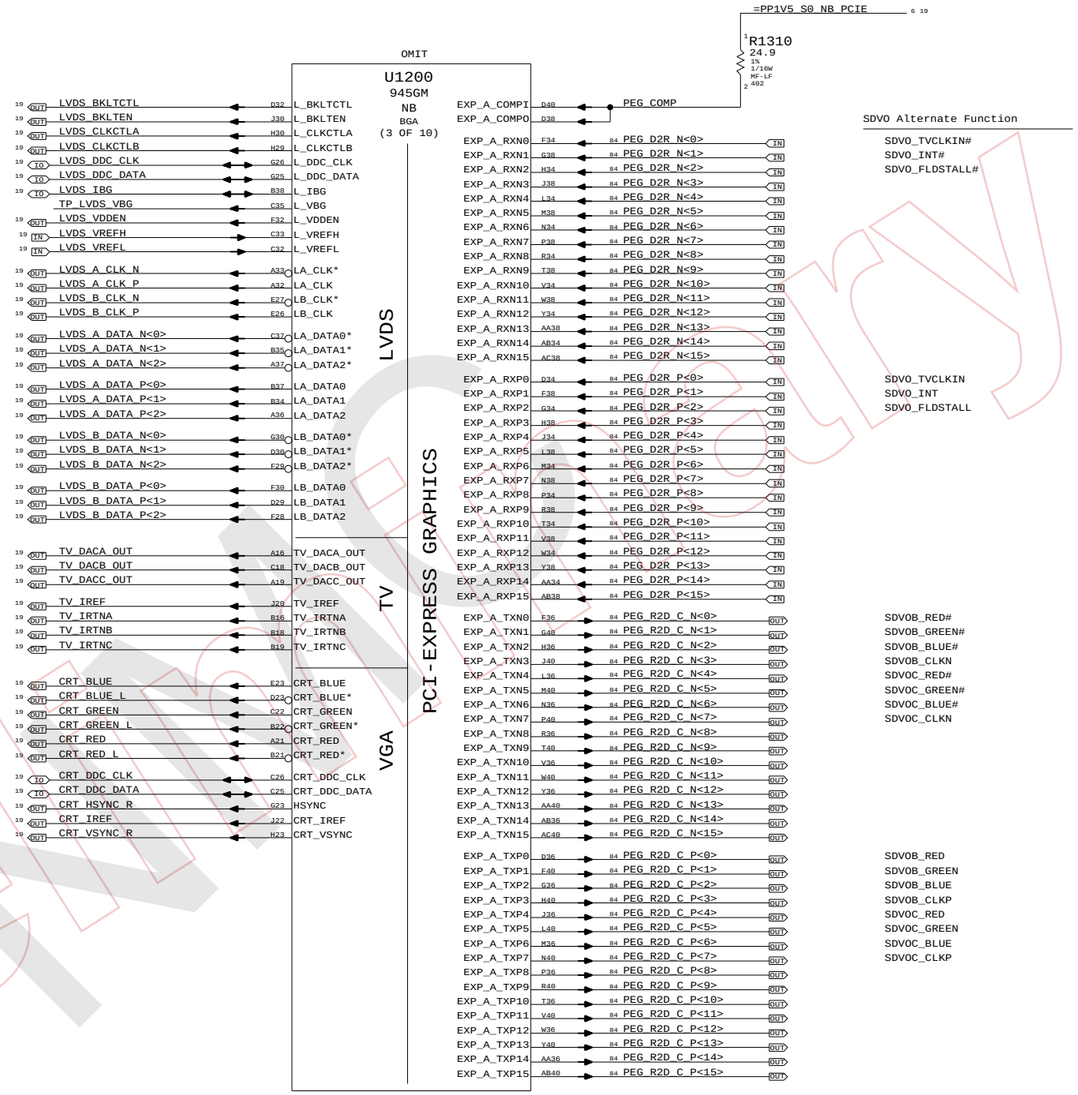
Unused DAC outputs must remain powered, but can omit filtering components. Unused DAC outputs should connect to GND through 75-ohm resistors.

TV-Out Disable

Tie DACx_OUT, IRTNx, and IREF to 1.5V power rail.
Tie VCCD_TVDAC, VCCD_QTVDAC, VCCA_TVDACx, and
VCCA_TVBG to 1.5V power rail. Tie VSSA_TVBG to GND.

CRT Disable

Tie R/R#/G/G#/B/B# and IREF to VCC Core rail, tie
HSYNC and VSYNC to GND. Tie VCCA_CRTDAC to VCC Core
rail, and tie VSSA_CRTDAC and VCC_SYNC to GND.



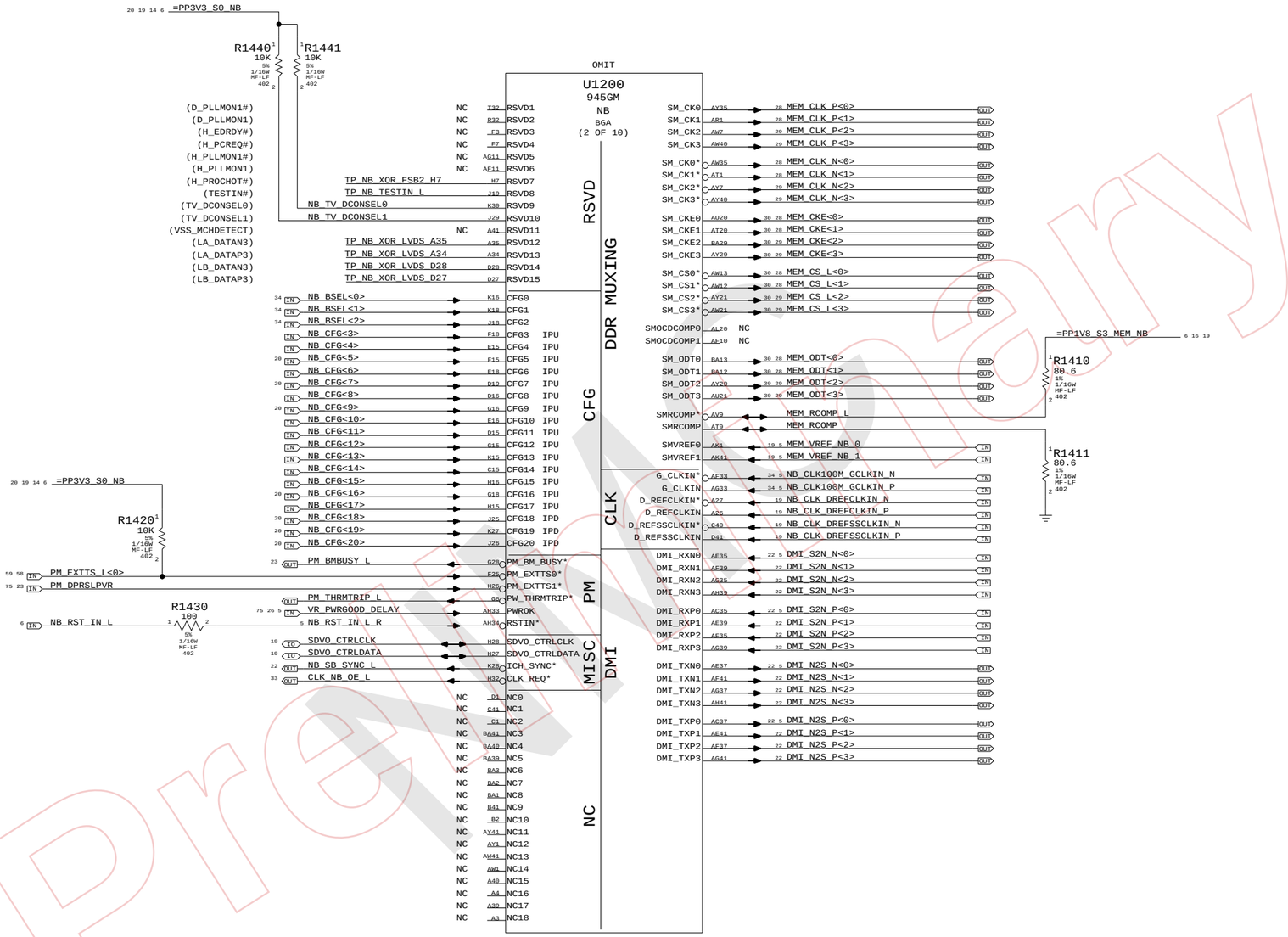
NB PEG / Video Interfaces

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE	SHT	OF
NONE	13	110

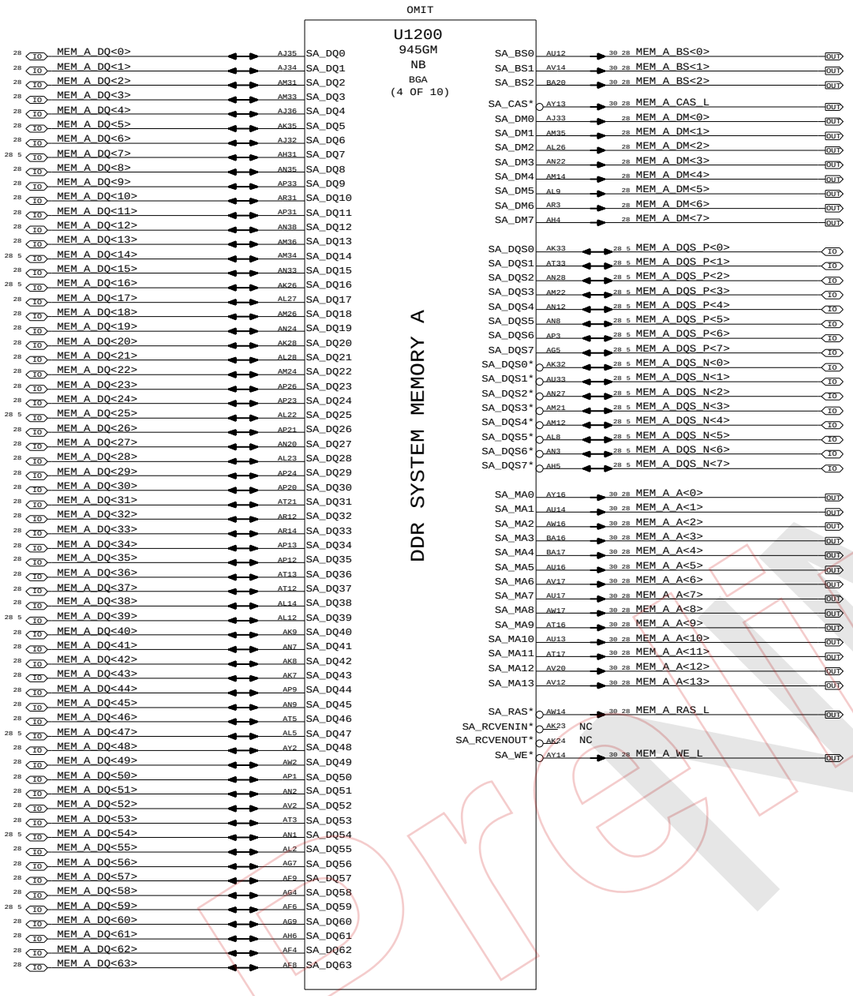


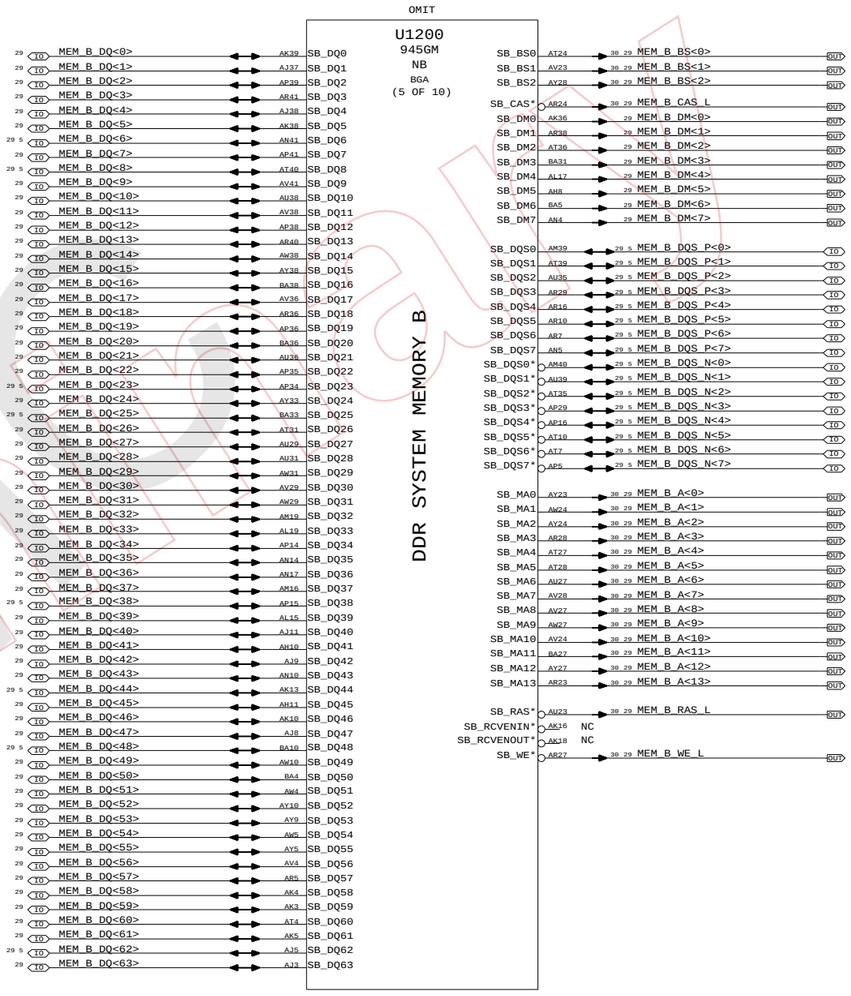
NB Misc Interfaces

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT 14 OF 110	





NB DDR2 Interfaces

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

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SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE	SHT	OF
NONE	15	110

NCTF balls are Not Critical To Function

These connections can break without impacting part performance.

=PPVCORE_S0_NB 19 16 6

=PPVCORE_S0_NB 6 16 19

1.05V or 1.5V

U1200 945GM NB BGA (6 OF 10) OMIT VCC

U1200 945GM NB BGA (7 OF 10) OMIT NCTF

=PP1V5_S0_NB_VCCAUX 6 17 19

=PP1V8_S3_MEM_NB 19 14 6

NB_VCCSM_LF4

NB_VCCSM_LF5

NB_VCCSM_LF2

NB_VCCSM_LF1

C1614 0.47UF 10% 6.3V CERM-X5R 402

C1613 0.47UF 10% 6.3V CERM-X5R 402

C1615 0.47UF 10% 6.3V CERM-X5R 402

Layout Note: Place near pin BA23

C1620 10UF 20% 6.3V CERM 805-1

C1621 10UF 20% 6.3V CERM 805-1

C1610 0.47UF 10% 6.3V CERM-X5R 402

Layout Note: Place near pin BA15

Layout Note: Place in cavity (Need to better define cavity)

C1612 0.47UF 10% 6.3V CERM-X5R 402

C1611 0.47UF 10% 6.3V CERM-X5R 402

NB Power 1

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

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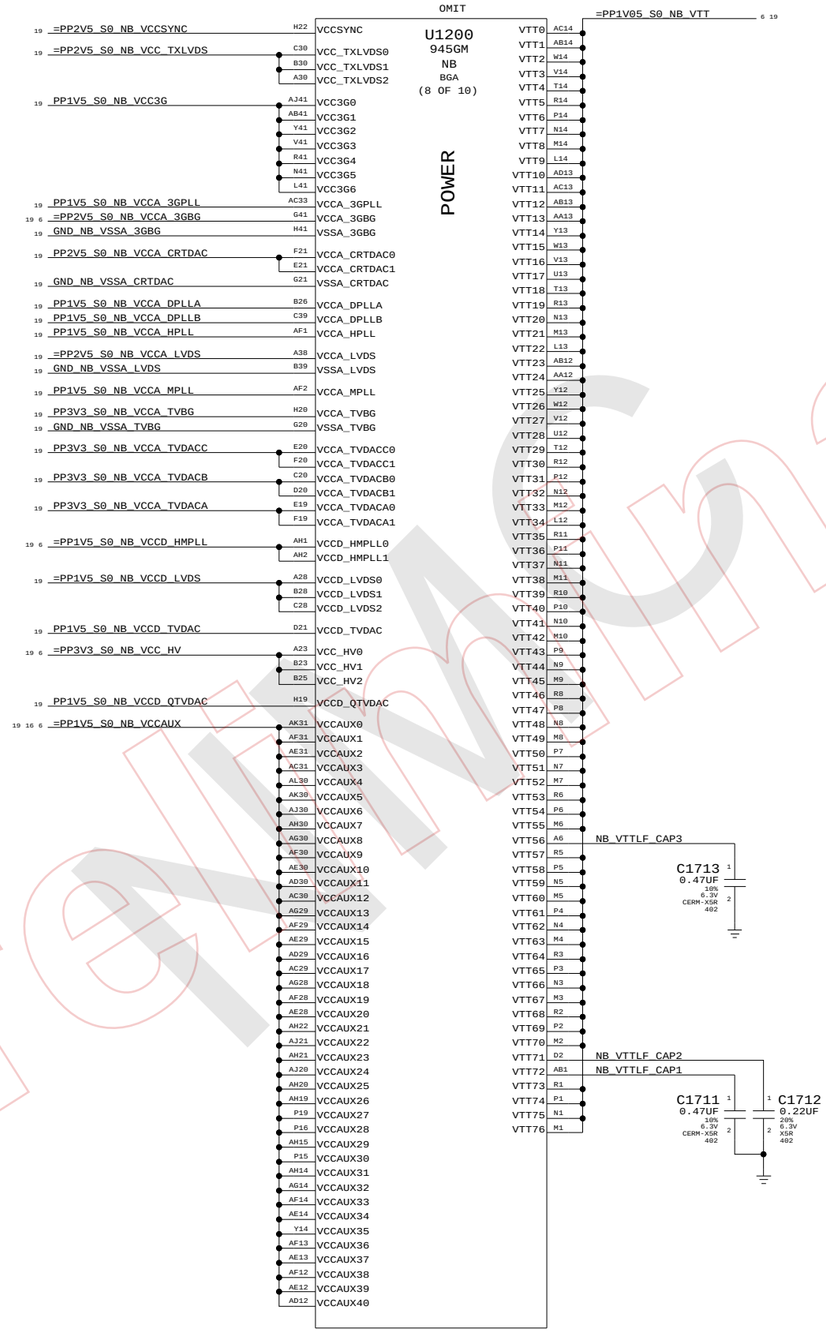
D	051-7148	13

SCALE	SHT	OF
NONE	16	110

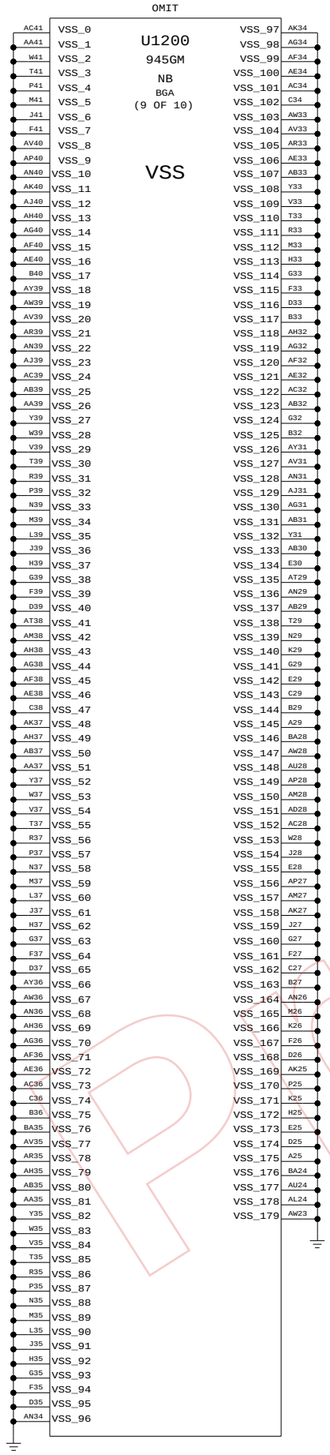


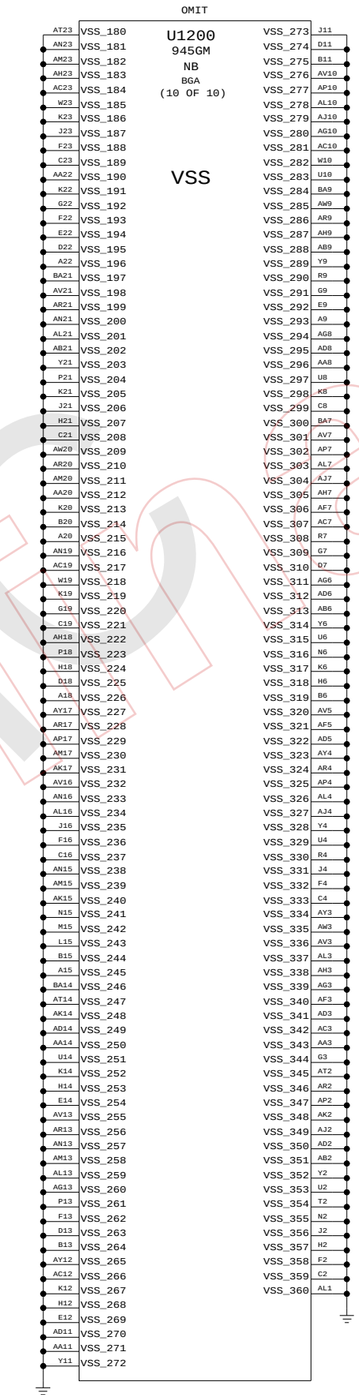
NB Power 2

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT 17 OF 110	





NB Grounds

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE	SHT	OF
NONE	18	110

Power Interface

These are the power signals that leave the NB "block"

=PP1V05_S0_FSB_NB 5 6 12
=PPVCORE_S0_NB 6 16 19
=PP1V05_S0_NB 6
=PP1V05_S0_NB_VTT 6 17 19
=PP1V5_S0_NB 6 19
=PP1V5_S0_NB_PCIE 6 13
=PP1V5_S0_NB_PLL 6 19
=PP1V5_S0_NB_TVDAC 6 19
=PP1V5_S0_NB_VCCD_HMPLL 6 17
=PP1V5_S0_NB_VCCD_LVDS 17 19
=PP1V5_S0_NB_VCCAUX 6 16 17 19
=PP1V8_S3_MEM_NB 6 14 16 19

=PP2V5_S0_NB_VCCSYNC 17 19
=PP2V5_S0_NB_VCC_TXLVDS 17 19
=PP2V5_S0_NB_VCCA_3GBG 6 17 19
=PP2V5_S0_NB_VCCA_LVDS 17 19

=PP3V3_S0_NB 6 14 20
=PP3V3_S0_NB_TVDAC 6
=PP3V3_S0_NB_VCC_HV 6 17 19

19 6 =PP1V5_S0_NB_PLL
L1934 FERR-120-OHM-0.2A 0603
PP1V5_S0_NB_VCCA_HPLL 17
VOLTAGE=1.5V MIN_LINE_WIDTH=1.0 mm MIN_NECK_WIDTH=0.2 MM
C1934 22uF 20% 6.3V X5R 805
C1935 0.1uF 20% 10V CERM 402
L1936 FERR-120-OHM-0.2A 0603
PP1V5_S0_NB_VCCA_MPLL 17
VOLTAGE=1.5V MIN_LINE_WIDTH=1.0 mm MIN_NECK_WIDTH=0.2 MM
C1936 22uF 20% 6.3V X5R 805
C1937 0.1uF 20% 10V CERM 402

Layout Note:
These 4 0.1uF caps should
be within 5 mm of NB edge

19 17 6 =PP1V05_S0_NB_VTT
C1965 4.7uF 20% 6.3V CERM 603
C1966 2.2uF 10% 6.3V CERM1 603
Layout Note:
Place in cavity
C1967 0.22uF 20% 6.3V X5R 402
NOSTUFF C1968 330UF 20% 6.3V ELEC CASE-C1
Layout Note:
Place on the edge

19 16 14 6 =PP1V8_S3_MEM_NB
R1982 1K 5% 1/16W MF-LF 402
R1983 1K 5% 1/16W MF-LF 402
C1982 0.1uF 20% 16V CERM 603
MEM_VREF_NB_1 5 14
R1980 1K 5% 1/16W MF-LF 402
R1981 1K 5% 1/16W MF-LF 402
C1981 0.1uF 20% 16V CERM 603
MEM_VREF_NB_0 5 14

19 17 6 =PP3V3_S0_NB_VCC_HV
C1914 10UF 20% 6.3V CERM 805-1
C1915 0.1uF 20% 10V CERM 402

19 17 6 =PP2V5_S0_NB_VCCA_3GBG
C1916 0.1uF 20% 10V CERM 402
19 17 16 6 =PP1V5_S0_NB_VCCAUX
C1918 0.1uF 20% 10V CERM 402

TVOUT DISABLE

16 6 19 =PPVCORE_S0_NB
PP2V5_S0_NB_VCCA_CRTDAC 17
CRT_RED 13
CRT_RED_L 13
CRT_GREEN 13
CRT_GREEN_L 13
CRT_BLUE 13
CRT_BLUE_L 13
CRT_IREF 13
CRT_VSYNC_R 13
CRT_HSYNC_R 13
=PP2V5_S0_NB_VCCSYNC 17 19
GND_NB_VSSA_CRTDAC 17
TP_CRT_DDC_CLK TRUE CRT_DDC_CLK 13
TP_CRT_DDC_DATA TRUE CRT_DDC_DATA 13

DISPLAY DISABLE

TP_NB_VCCA_DPLLA TRUE PP1V5_S0_NB_VCCA_DPLLA 17
TP_NB_VCCA_DPLLB TRUE PP1V5_S0_NB_VCCA_DPLLB 17
NB_CLK_DREFCLKIN_N OUT 14
NB_CLK_DREFCLKIN_P OUT 14
NB_CLK_DREFSSCLKIN_P OUT 14
NB_CLK_DREFSSCLKIN_N OUT 14

19 16 6 =PPVCORE_S0_NB
C1900 330UF 20% 6.3V ELEC CASE-C1
C1901 330UF 20% 6.3V ELEC CASE-C1
C1902 10UF 20% 6.3V CERM 805-1
C1903 10UF 20% 6.3V CERM 805-1
C1904 1UF 10% 6.3V CERM 402
C1905 0.22uF 20% 6.3V X5R 402
C1906 0.22uF 20% 6.3V X5R 402
C1907 0.22uF 20% 6.3V X5R 402

19 6 =PP1V5_S0_NB_3GPLL
L1970 91NH 1210
Layout Note:
Place L and C
close to MCH
C1970 220UF 20% 2.5V POLY SMB2
C1971 10UF 20% 6.3V CERM 805-1
C1972 10UF 20% 6.3V CERM 805-1
PP1V5_S0_NB_VCC3G 17
VOLTAGE=1.5V MIN_LINE_WIDTH=1.0 mm MIN_NECK_WIDTH=0.2 MM
Layout Note:
10uF caps should
be close to MCH
on opposite side.

1uH, 20%
19 6 =PP1V5_S0_NB_3GPLL
L1975 1.0UH-220MA-0.12-OHM 0805
PP1V5_S0_NB_3GPLL_F 17
VOLTAGE=1.5V MIN_LINE_WIDTH=1.0 mm MIN_NECK_WIDTH=0.2 MM
Should be 1%
R1975 0.51 1% 1/16W MF-LF 402
C1975 10UF 20% 6.3V CERM 805-1
C1976 0.1uF 20% 10V CERM 402
PP1V5_S0_NB_VCCA_3GPLL 17
VOLTAGE=1.5V MIN_LINE_WIDTH=1.0 mm MIN_NECK_WIDTH=0.2 MM
GND_NB_VSSA_3GBG 17
Layout Note:
3GPLL 10uF cap should
be placed in cavity
Layout Note: Route to caps, then GND

LVDS DISABLE

13 IO LVDS_A_CLK_N TRUE TP_LVDS_A_CLK_N
13 IO LVDS_A_CLK_P TRUE TP_LVDS_A_CLK_P
13 IO LVDS_B_CLK_N TRUE TP_LVDS_B_CLK_N
13 IO LVDS_B_CLK_P TRUE TP_LVDS_B_CLK_P
13 IO LVDS_A_DATA_N<0> TRUE TP_LVDS_A_DATA_N<0>
13 IO LVDS_A_DATA_N<1> TRUE TP_LVDS_A_DATA_N<1>
13 IO LVDS_A_DATA_N<2> TRUE TP_LVDS_A_DATA_N<2>
13 IO LVDS_A_DATA_P<0> TRUE TP_LVDS_A_DATA_P<0>
13 IO LVDS_A_DATA_P<1> TRUE TP_LVDS_A_DATA_P<1>
13 IO LVDS_A_DATA_P<2> TRUE TP_LVDS_A_DATA_P<2>
13 IO LVDS_B_DATA_N<0> TRUE TP_LVDS_B_DATA_N<0>
13 IO LVDS_B_DATA_N<1> TRUE TP_LVDS_B_DATA_N<1>
13 IO LVDS_B_DATA_N<2> TRUE TP_LVDS_B_DATA_N<2>
13 IO LVDS_B_DATA_P<0> TRUE TP_LVDS_B_DATA_P<0>
13 IO LVDS_B_DATA_P<1> TRUE TP_LVDS_B_DATA_P<1>
13 IO LVDS_B_DATA_P<2> TRUE TP_LVDS_B_DATA_P<2>
13 IN LVDS_BKLTEN TRUE TP_LVDS_BKLTEN
13 IN LVDS_VDDEN TRUE TP_LVDS_VDDEN
13 IN LVDS_IBG TRUE TP_LVDS_IBG
17 IN GND_NB_VSSA_LVDS TRUE TP_GND_NB_VSSA_LVDS
13 OUT LVDS_VREFH TRUE TP_LVDS_VREFH
13 OUT LVDS_VREFL TRUE TP_LVDS_VREFL

19 17 =PP2V5_S0_NB_VCCA_LVDS
19 17 =PP1V5_S0_NB_VCCD_LVDS
19 17 =PP2V5_S0_NB_VCC_TXLVDS

13 IN LVDS_BKLTCTL TRUE TP_LVDS_BKLTCTL
13 IN LVDS_CLKCTLA TRUE TP_LVDS_CLKCTLA
13 IN LVDS_CLKCTLB TRUE TP_LVDS_CLKCTLB
13 IN LVDS_DDC_CLK TRUE TP_LVDS_DDC_CLK
13 IN LVDS_DDC_DATA TRUE TP_LVDS_DDC_DATA

TVOUT DISABLE

19 6 =PP1V5_S0_NB
PP3V3_S0_NB_VCCA_TVDACA 17
PP3V3_S0_NB_VCCA_TVDACB 17
PP3V3_S0_NB_VCCA_TVDACC 17
PP3V3_S0_NB_VCCA_TVBG 17
13 TV_DACA_OUT IN
13 TV_DACB_OUT IN
13 TV_DACC_OUT IN
13 TV_IREF IN
13 TV_IRTNA IN
13 TV_IRTNB IN
13 TV_IRTNC IN
GND_NB_VSSA_TVBG 17
6 19 =PP1V5_S0_NB_TVDAC
PP1V5_S0_NB_VCCD_TVDAC 17
VOLTAGE=1.5V MIN_LINE_WIDTH=0.6MM MIN_NECK_WIDTH=0.15MM
PP1V5_S0_NB_VCCD_QTVDAC 17
Layout Note:
THESE 2 CAPS SHOULD BE
within 6.35 mm of NB edge

14 IN SDVO_CTRLCLK TP_SDVO_CTRLCLK
14 IN SDVO_CTRLDATA TP_SDVO_CTRLDATA

NB (GM) Decoupling

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT 19 OF 110	

NB_CFG<3>	RESERVED

NB_CFG<4>	RESERVED

14 NB_CFG<5>
Internal pull-up

NB_CFG<5> DMI x2 Select	High = DMIx4 Low = DMIx2

NBCFG_DMI_X2
R2075
2.2K
5%
1/16W
MF-LF
402

PROBABLY NOT NEEDED

NB_CFG<6>	RESERVED

14 NB_CFG<7>
Internal pull-up

NB_CFG<7> CPU Strap	High = Mobile CPU Low = RESERVED

NO STUFF
R2077
2.2K
5%
1/16W
MF-LF
402

NB_CFG<8>	RESERVED

14 NB_CFG<9>
Internal pull-up

NB_CFG<9> PCIE Graphics Lane Reversal	High = Normal Low = Reversed

NBCFG_PEG_REVERSE
R2079
2.2K
5%
1/16W
MF-LF
402

NB_CFG<10>	RESERVED

NB_CFG<11>	RESERVED

Internal pull-ups

NB_CFG<13:12>	00 = Partial Clock Gating Disable 01 = XOR Mode Enabled 10 = All-Z Mode Enabled 11 = Normal Operation

NB_CFG<14>	RESERVED

NB_CFG<15>	RESERVED

14 NB_CFG<16>
Internal pull-up

NB_CFG<16> FSB Dynamic ODT	High = Enabled Low = Disabled

NBCFG_DYN_ODT_DISABLE
R2085
2.2K
5%
1/16W
MF-LF
402

NB_CFG<17>	RESERVED

=PP3V3_S0_NB 6 14 19 20
NBCFG_VCC_1V5
R2058
2.2K
5%
1/16W
MF-LF
402

NB_CFG<18> VCC Select	High = 1.5V Low = 1.05V

14 NB_CFG<18>
Internal pull-down

=PP3V3_S0_NB 6 14 19 20
NBCFG_DMI_REVERSE
R2059
2.2K
5%
1/16W
MF-LF
402

NB_CFG<19> DMI Lane Reversal	High = Reversed Low = Normal

14 NB_CFG<19>
Internal pull-down

945 External Design Spec says reserved

=PP3V3_S0_NB 6 14 19 20
NBCFG_SDVO_AND_PCIE
R2060
2.2K
5%
1/16W
MF-LF
402

NB_CFG<20> PCIe Backward Interop. Mode	High = Both active Low = Only SDVO or PCIe x1

14 NB_CFG<20>
Internal pull-down

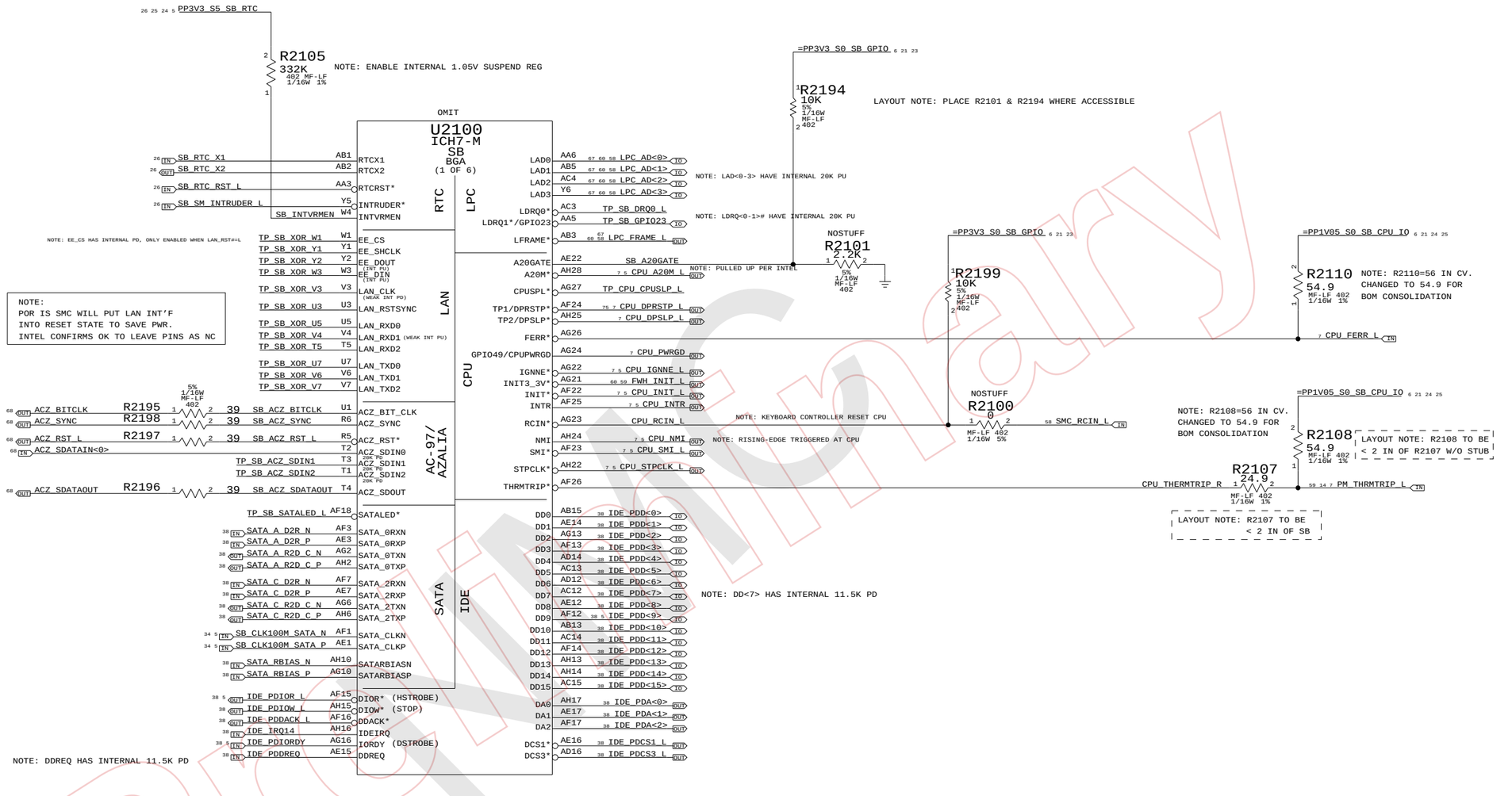
PROBABLY NOT NEEDED

NB Config Straps

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT: 20	OF: 110



	AC '07	INTEL HIGH DEFINITION AUDIO
ACZ_BIT_CLK	INTERNAL 20K PD ENABLED WHEN - LSO BIT IN AC'97 GLOBAL CONTROL REG = 1; OR - BOTH FUNCTION 2 & 3 OF DEVICE 30 ARE DISABLED	INTERNAL 20K PD ONLY ENABLED IN S3COLD
ACZ_RST#		NONE
ACZ_SDIN[0-2]	INTERNAL 20K PD	INTERNAL 20K PD
ACZ_SDOUT	INTERNAL 20K PD ENABLED DURING RESET AND WHEN - LSO BIT IN AC'97 GLOBAL CONTROL REG = 1; OR - BOTH FUNCTION 2 & 3 OF DEVICE 30 ARE DISABLED	INTERNAL 20K PD ENABLED WHEN - LSO BIT IN AC'97 GLOBAL CONTROL REG = 1; OR - BOTH FUNCTION 2 & 3 OF DEVICE 30 ARE DISABLED
ACZ_SYNC		INTERNAL 20K PD

SB: 1 OF 4

SYNC_MASTER=N/A SYNC_DATE=N/A

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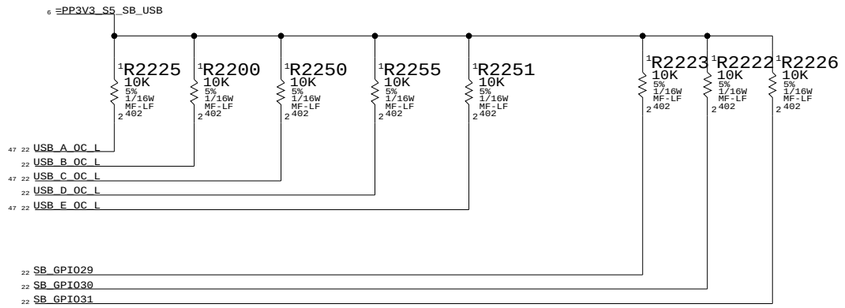
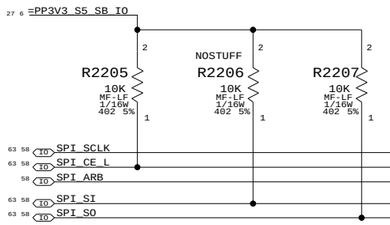
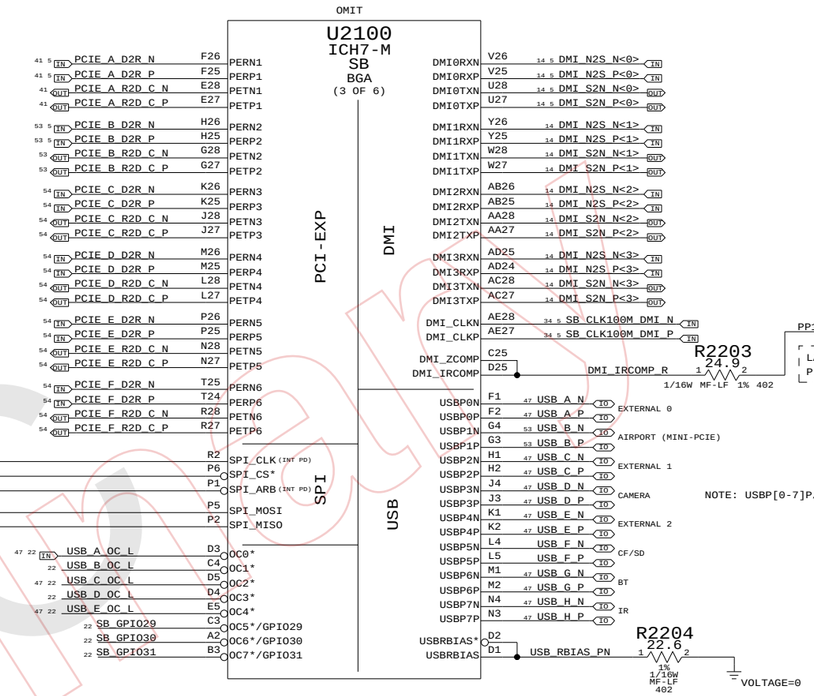
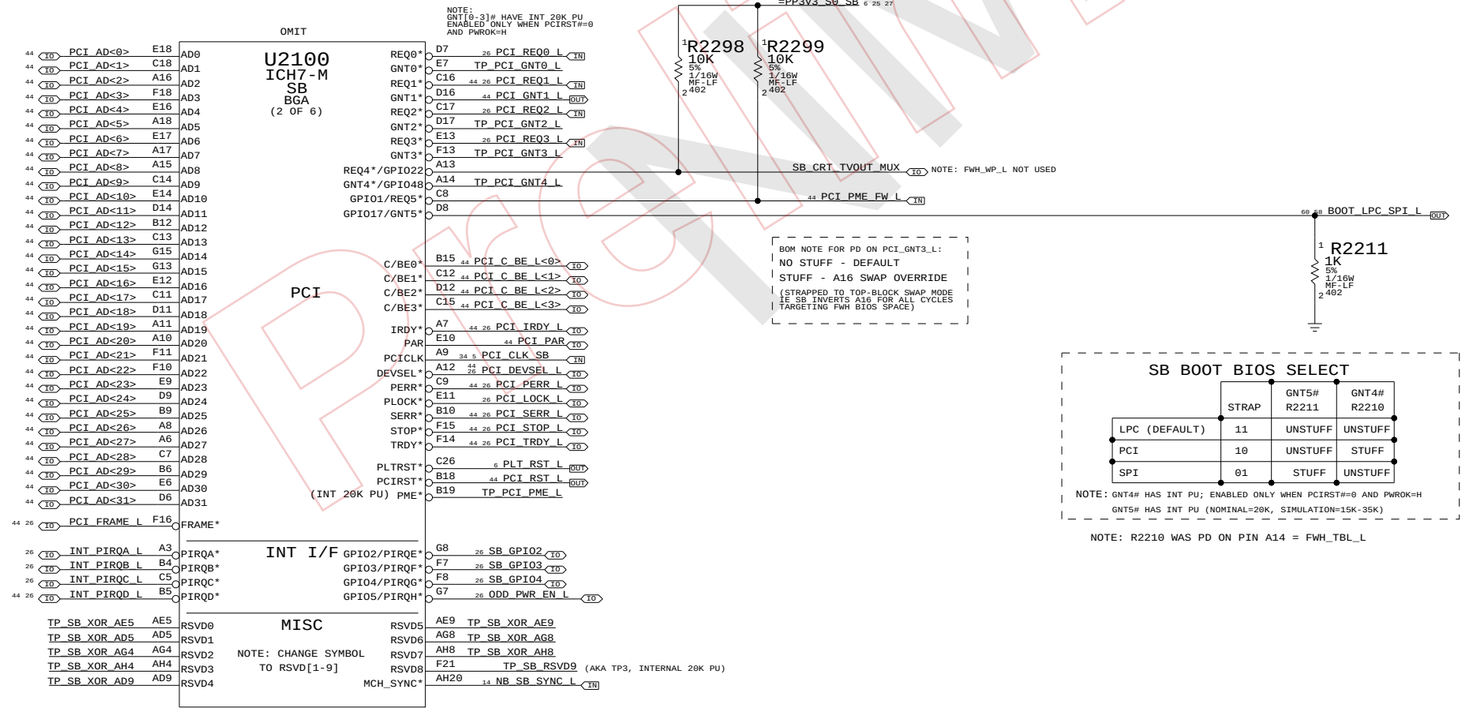
SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT 21 OF 110	









SB: 2 OF 4

SYNC_MASTER=N/A SYNC_DATE=N/A

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SCALE NONE SHT 22 OF 110

NOTE FOR R2323 (DEF=NOSTUFF)
STRAPPING @ PWROK RISING:
SB WILL DISABLE TCO TIMER
SYSTEM REBOOT FEATURE

=PP3V3_S0_SB_GPIO 6 21 23

=PP3V3_S5_SB 6 23 25 26

R2318 10K 1/16W 402 MF-LF 5%
R2395 8.2K 1/16W 402 MF-LF 5%
R2396 10K 1/16W 402 MF-LF 5%
R2397 8.2K 1/16W 402 MF-LF 5%
R2327 10K 1/16W 402 MF-LF 5% NOSTUFF
R2326 10K 1/16W 402 MF-LF 5% NOSTUFF
R2323 1K 1/16W 402 MF-LF 5% NO_REBOOT_MODE

RP2300 10K 5% 1/16W SM-LF

26 25 23 6 =PP3V3_S5_SB

R2398 1K 1/16W 402 MF-LF 5%
R2320 10K 1/16W 402 MF-LF 5%
R2317 10K 1/16W 402 MF-LF 5%
R2316 10K 1/16W 402 MF-LF 5%

OMIT

U2100
ICH7-M
SB
BGA
(4 OF 6)

SMB

27 TO SMB_CLK	C22	SMBCLK
27 TO SMB_DATA	B22	SMBDATA
SMB_LINK_ALERT_L	A26	LINKALERT*
SMLINK<0>	B25	SMLINK0
SMLINK<1>	A25	SMLINK1
NOT USED		
PM_RI_L	A28	RI*
SB_SPKR	A19	SPKR (INT WEAK PD)
67 60 58 OUT PM_SUS_STAT_L	A27	SUS_STAT*
58 26 5 IN PM_SYSRST_L	A22	SYS_RST*
14 IN PM_BMBUSY_L	AB18	GPIO0/BM_BUSY*
SMB_ALERT_L NOTE: RESERVED FOR FUTURE	B23	GPIO11/SMBALERT*
33 OUT PM_STPPCI_L	AC20	GPIO18/STPPCI*
33 OUT PM_STPCPU_L	AF21	GPIO20/STPCPU*
SB_GPIO26	A21	GPIO26
23 BIOS_REC	B21	GPIO27
23 FWH_MFG_MODE	E23	GPIO28
67 60 58 44 5 TO PM_CLKRUN_L	AG18	GPIO32/CLKRUN*
RESERVED FOR MOBILE AZALIA DOCKING INT'F: TP_AZ_DOCK_EN_L	AC19	GPIO33/AZ_DOCK_EN*
RESERVED FOR MOBILE AZALIA DOCKING INT'F: TP_AZ_DOCK_RST_L	U2	GPIO34/AZ_DOCK_RST*
53 41 IN PCIE_WAKE_L	F20	WAKE*
67 60 58 TO INT_SERIRQ	AH21	SERIRQ
58 10 IN PM_THRM_L	AF20	THRM*
26 IN VR_PWRGD_CK410	AD22	VRMPWRGD
TO TP_SB_GPIO6	AC21	GPIO6
58 IN SMC_RUNTIME_SCI_L	AC18	GPIO7
58 IN SMC_EXTSMI_L	E21	GPIO8

SYS PWR MNGT

CLKS

CLK14	AC1	34 5 SB_CLK14P3M_TIMER IN
CLK48	B2	34 5 SB_CLK48M_USBCTLR IN
SUSCLK	C20	59 SUS_CLK_SB OUT

SLP_S3*	B24	79 77 88 58 6 PM_SLP_S3_L OUT
SLP_S4*	D23	77 58 PM_SLP_S4_L OUT
SLP_S5*	F22	58 PM_SLP_S5_L OUT
PWROK	AA4	26 PM_SB_PWROK IN
GPIO16/DPRSLPVR	AC22	75 14 PM_DPRSLPVR OUT
TP0/BATLOW*	C21	NOTE: DPRSLPVR HAS INT 20K PD, ENABLED AT BOOT/RESET FOR STRAPPING FCN
(INT 20K PU) PWRBTN*	C23	58 PM_PWRBTN_L IN
LAN_RST*	C19	58 PM_LAN_ENABLE IN
RSMRST*	Y4	

NOTE:
SMC WILL DRIVE 0-1-0 TO KEEP LAN INT'F IN RESET STATE TO SAVE PWR

SATA GPIO

GPIO21/SATA0GP	AF19	SB_GPIO21 100 R2302
GPIO19/SATA1GP	AH18	SB_GPIO19 100 R2303
GPIO36/SATA2GP	AH19	
GPIO37/SATA3GP	AE19	SB_GPIO37 100 R2305

38 SATA_C_DET_L IN

GPIO

GPIO9	E20	58 26 SMS_INT_L IN
GPIO10	A20	58 SMC_SB_NMI IN
DEF=GPI GPIO12	F19	23 PATA_PWR_EN_L OUT
GPIO13	E19	
DEF=GPI GPIO14	R4	38 IDE_RESET_L OUT
GPIO15	E22	SV_SET_UP 23 60
GPIO24	R3	CRB_SV_DET 23
GPIO25	D20	TP_SB_GPIO25_DO_NOT_USE
OD GPIO35	AD21	33 SB_CLK100M_SATA_OE_L OUT
GPIO38	AD20	TP_SB_GPIO38 TO
DEF=GPI GPIO39	AE20	23 SATA_C_PWR_EN_L OUT

=PP3V3_S5_SB_PM 6 11

R2319 10K 1/16W 402 MF-LF 5%
R2343 8.2K 5% 1/16W 402 MF-LF

58 PM_BATLOW_L IN

R2399 100K 5% 1/16W 402 MF-LF

58 PM_RSMRST_L IN

58 SMC_WAKE_SCI_L IN

NOTE FOR GPIO25:
- HAS INTERNAL 20K PU, ENABLED DURING RSMRST# AND DISABLED WITHIN 100MS AFTER RSMRST# DEASSERTS
- CAN NOT BE LOW FOR 35US AFTER RSMRST# ON BOOT (DMI AC COUPLING MODE STRAP)

26 25 23 6 =PP3V3_S5_SB

R2306 10K 1/16W 402 MF-LF 5% NOSTUFF
R2308 10K 1/16W 402 MF-LF 5%
R2307 10K 1/16W 402 MF-LF 5%
R2309 0 1/16W 402 MF-LF 5% NOSTUFF

SV_SET_UP 23 60
CRB_SV_DET 23

NOTE:
SV_SET_UP IS LINDACARD DETECT
HI = PRESENT
LO = NOT PRESENT

LAYOUT NOTE:
PLACE R2306-14 WHERE PHYSICALLY ACCESSIBLE

26 25 23 6 =PP3V3_S5_SB

R2313 10K 1/16W 402 MF-LF 5%
R2310 10K 1/16W 402 MF-LF 5%
R2314 0 1/16W 402 MF-LF 5% NOSTUFF
R2311 10K 1/16W 402 MF-LF 5% NOSTUFF

FWH_MFG_MODE 23
BIOS_REC 23

=PP3V3_S5_SB 6 23 25 26

R2390 10K 5% 1/16W MF-LF 402

23 PATA_PWR_EN_L

=PP3V3_S0_SB_GPIO 6 21 23

R2388 10K 5% 1/16W MF-LF 402

23 SATA_C_PWR_EN_L

SB: 3 OF 4

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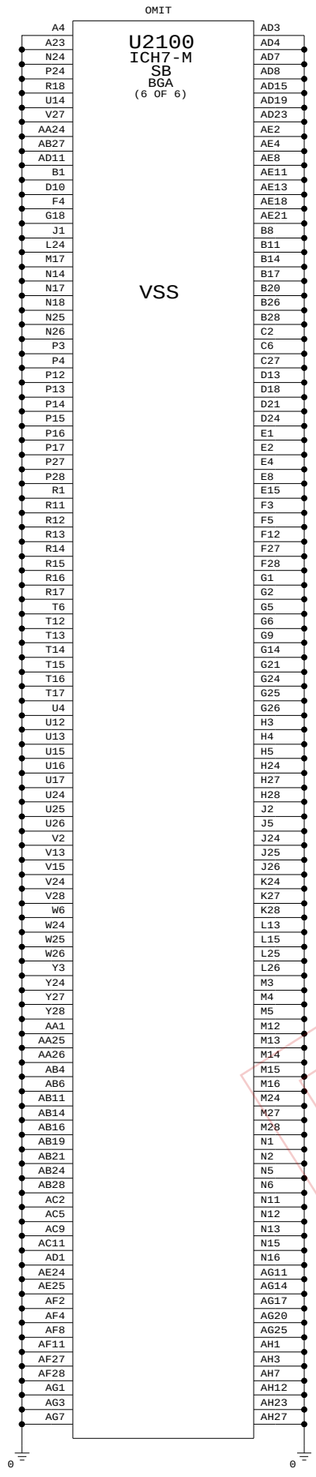
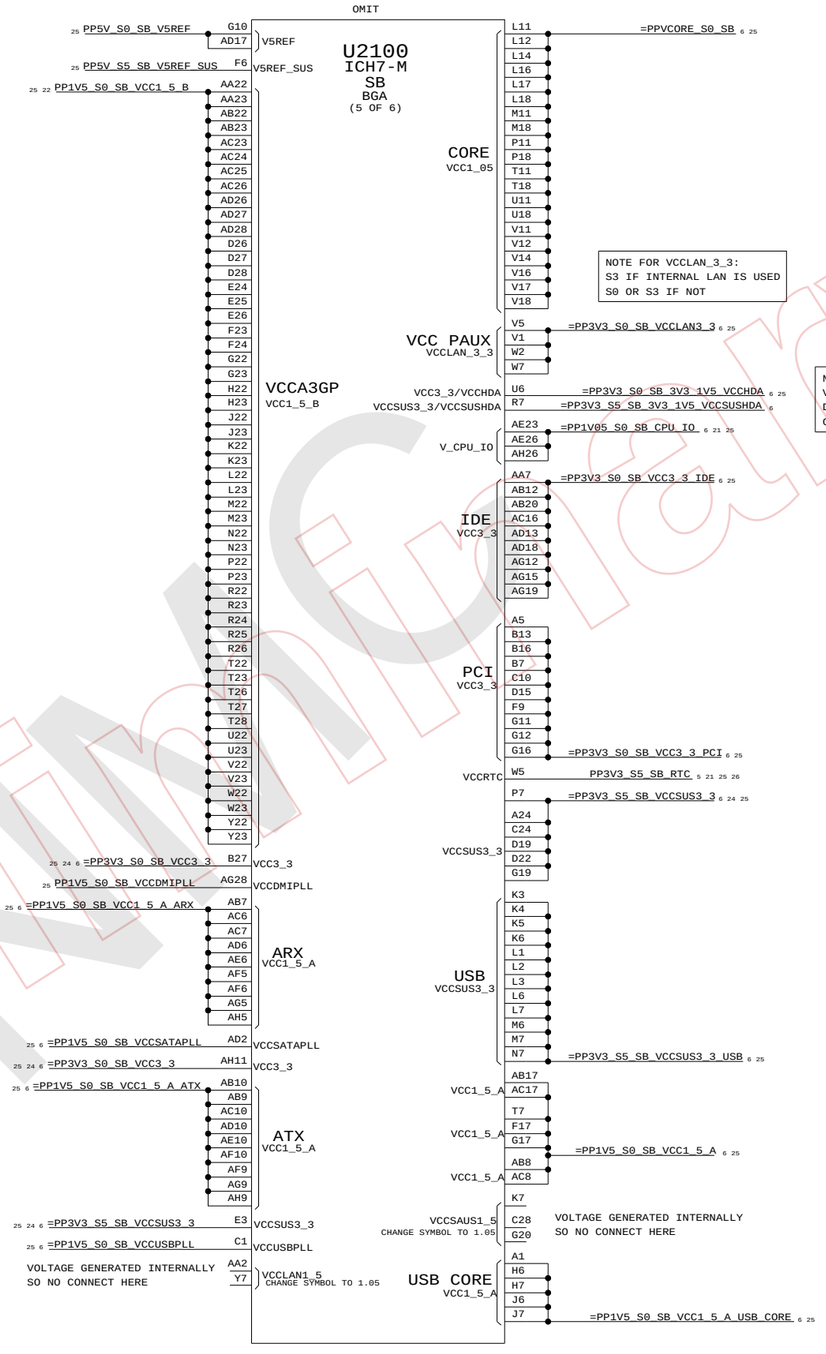
SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT 23 OF 110	





SB: 4 OF 4

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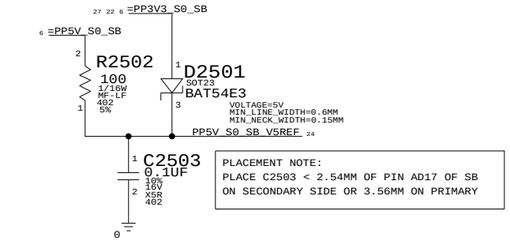
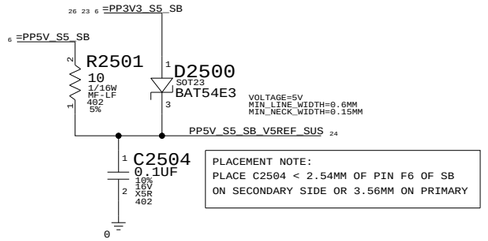
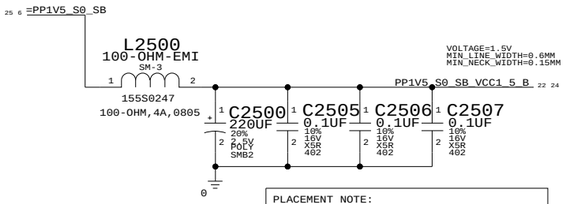
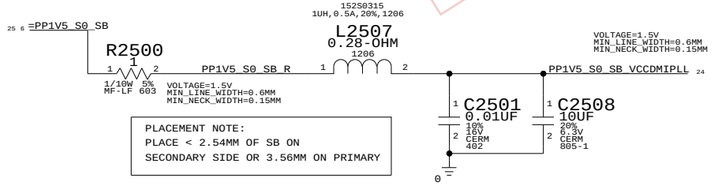
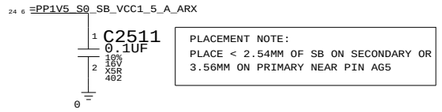
SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT 24 OF 110	

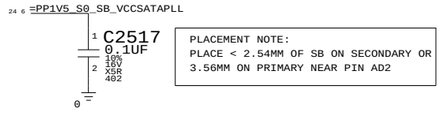


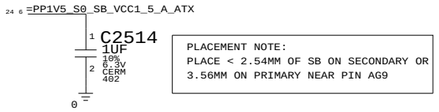


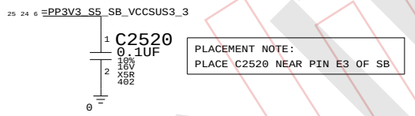


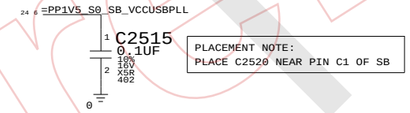


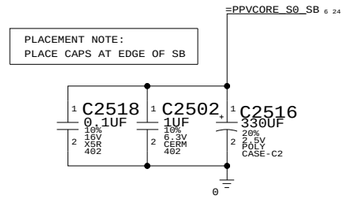


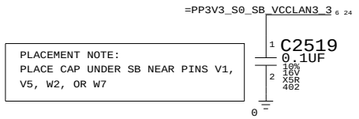


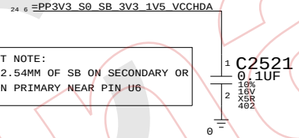


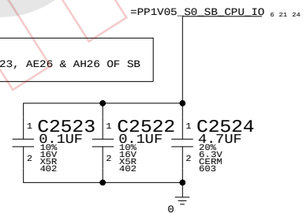


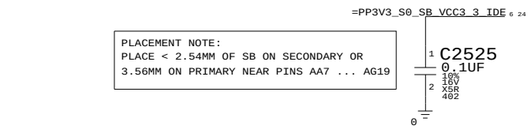


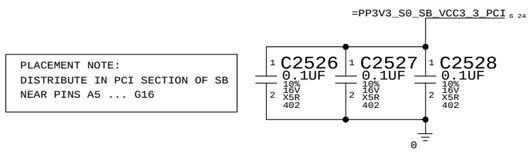


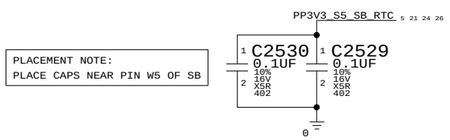


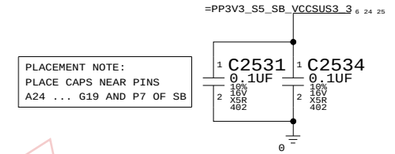


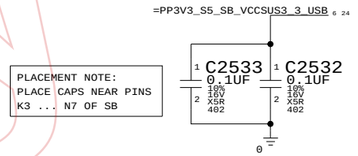


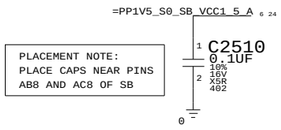


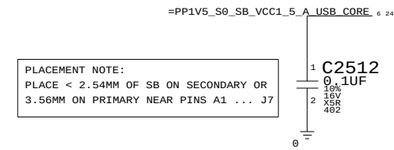












SB:DECOUPLING

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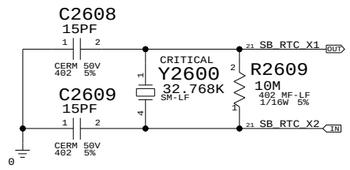

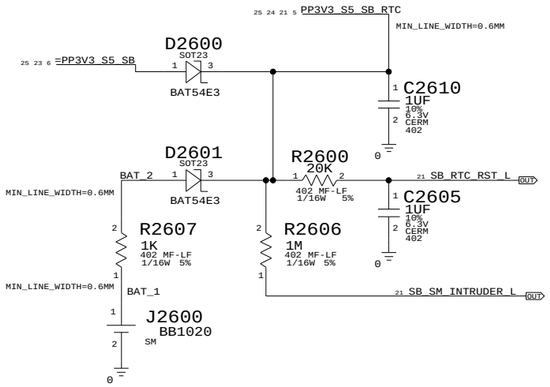

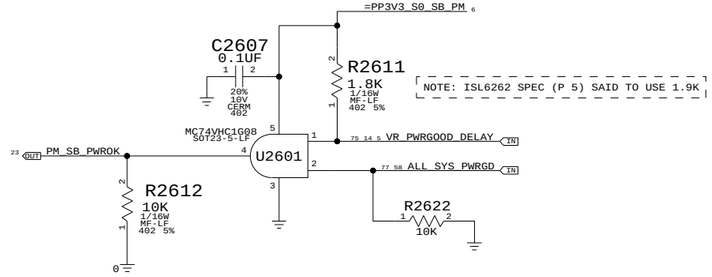

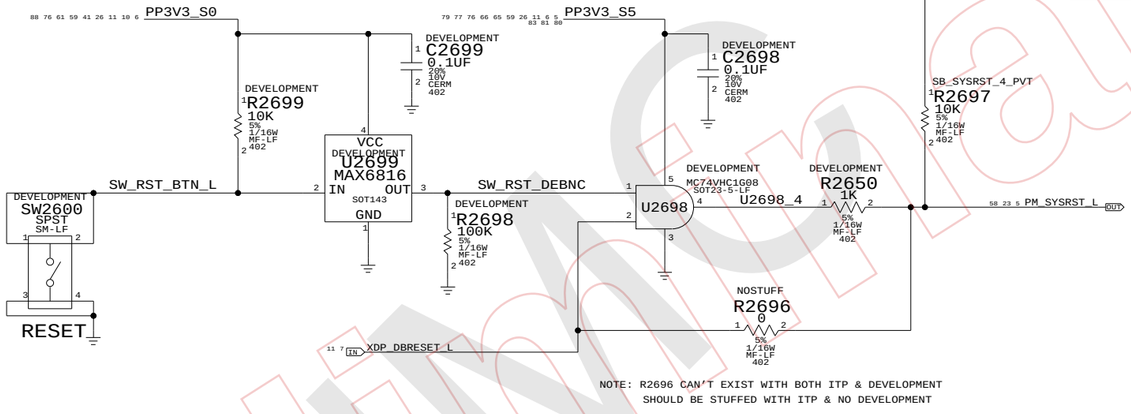

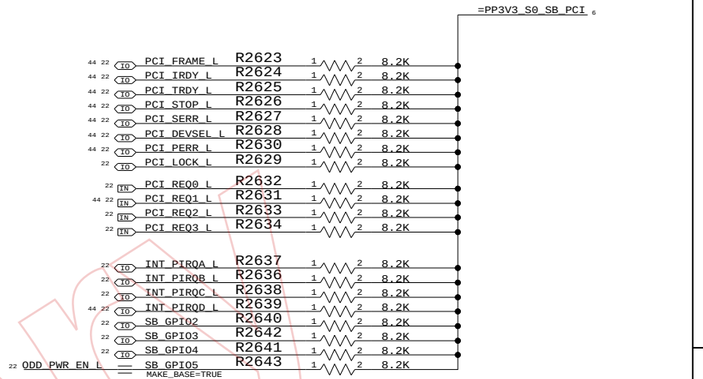

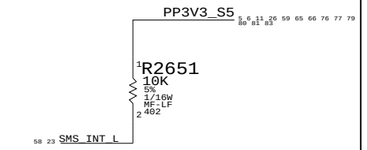

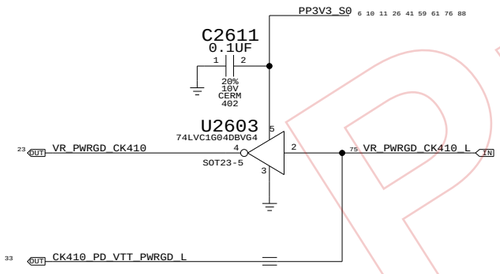

SB: MISC

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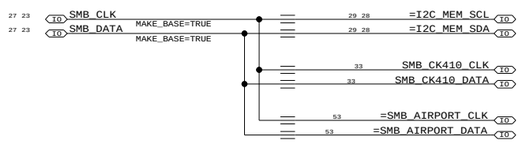
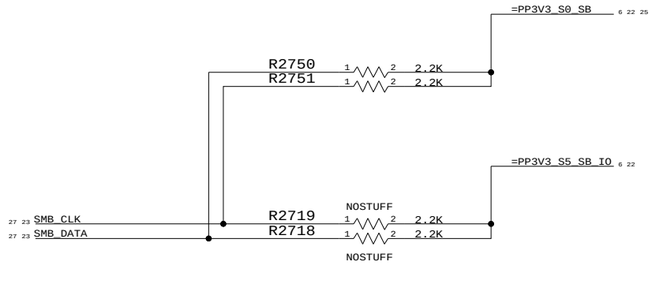
SB I2C BUSSES





SB: SMB HUB

SYNC_MASTER=N/A SYNC_DATE=N/A

APPLE COMPUTER INC.

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SCALE NONE SHT 27 OF 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)

DDR2 VRef

One 0.1uF per connector

29 28 6 5 =PP1V8_S3_MEM

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

MEM_VREF 5 28 29
VOLTAGE=0.9V
MIN_LINE_WIDTH=0.25 mm
MIN_NECK_WIDTH=0.25 mm

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

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

29 28 5 MEM_VREF

C2850 2.2UF 20% 6.3V CERM1 603

C2800 0.1uF 20% 10V CERM 402

29 28 6 5 =PP1V8_S3_MEM

OMIT

CRITICAL
J2800
F-RT-SM1
DDR2-SODIMM-STD

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

1	VREF		2	VSS0	
3	VSS1		4	DQ4	MEM_A_DQ<4> 15
5	DQ0		6	DQ5	MEM_A_DQ<5> 15
7	DQ1		8	VSS2	
9	VSS4		10	DM0	MEM_A_DM<0> 15
11	DQS0*	15 5 MEM_A_DQS_N<0>	12	VSS5	
13	DQS0	15 5 MEM_A_DQS_P<0>	14	DQ6	MEM_A_DQ<6> 15
15	VSS6		16	DQ7	MEM_A_DQ<7> 5 15
17	DQ2	15 MEM_A_DQ<2>	18	VSS7	
19	DQ3	15 MEM_A_DQ<3>	20	DQ12	MEM_A_DQ<12> 15
21	VSS8		22	DQ13	MEM_A_DQ<13> 15
23	DQ8	15 MEM_A_DQ<8>	24	VSS9	
25	DQ9	15 MEM_A_DQ<9>	26	DM1	MEM_A_DM<1> 15
27	VSS10		28	VSS11	
29	DQS1*	15 5 MEM_A_DQS_N<1>	30	CK0	MEM_CLK_P<0> 14
31	DQS1	15 5 MEM_A_DQS_P<1>	32	CK0*	MEM_CLK_N<0> 14
33	VSS12		34	VSS13	
35	DQ10	15 MEM_A_DQ<10>	36	DQ14	MEM_A_DQ<14> 5 15
37	DQ11	15 MEM_A_DQ<11>	38	DQ15	MEM_A_DQ<15> 15
39	VSS14		40	VSS15	
KEY					
41	VSS16		42	VSS17	
43	DQ16	15 5 MEM_A_DQ<16>	44	DQ20	MEM_A_DQ<20> 15
45	DQ17	15 MEM_A_DQ<17>	46	DQ21	MEM_A_DQ<21> 15
47	VSS18		48	VSS19	
49	DQS2*	15 5 MEM_A_DQS_N<2>	50	NC0	DIMM_OVERTEMP_L 29 59
51	DQS2	15 5 MEM_A_DQS_P<2>	52	DM2	MEM_A_DM<2> 15
53	VSS21		54	VSS22	
55	DQ18	15 MEM_A_DQ<18>	56	DQ22	MEM_A_DQ<22> 15
57	DQ19	15 MEM_A_DQ<19>	58	DQ23	MEM_A_DQ<23> 15
59	VSS23		60	VSS24	
61	DQ24	15 MEM_A_DQ<24>	62	DQ28	MEM_A_DQ<28> 15
63	DQ25	15 5 MEM_A_DQ<25>	64	DQ29	MEM_A_DQ<29> 15
65	VSS25		66	VSS26	
67	DM3	15 MEM_A_DM<3>	68	DQS3*	MEM_A_DQS_N<3> 5 15
69	NC1	NC	70	DQS3	MEM_A_DQS_P<3> 5 15
71	VSS27		72	VSS28	
73	DQ26	15 MEM_A_DQ<26>	74	DQ30	MEM_A_DQ<30> 15
75	DQ27	15 MEM_A_DQ<27>	76	DQ31	MEM_A_DQ<31> 15
77	VSS29		78	VSS30	
79	CKE0	30 14 MEM_CKE<0>	80	NC/CKE1	MEM_CKE<1> 14 30
81	VDD0		82	VDD1	
83	NC2	NC	84	NC/A15	TP_MEM_A_A<15>
85	BA2	30 15 MEM_A_BS<2>	86	NC/A14	TP_MEM_A_A<14>
87	VDD2		88	VDD3	
89	A12	30 15 MEM_A_A<12>	90	A11	MEM_A_A<11> 15 30
91	A9	30 15 MEM_A_A<9>	92	A7	MEM_A_A<7> 15 30
93	A8	30 15 MEM_A_A<8>	94	A6	MEM_A_A<6> 15 30
95	VDD4		96	VDD5	
97	A5	30 15 MEM_A_A<5>	98	A4	MEM_A_A<4> 15 30
99	A3	30 15 MEM_A_A<3>	100	A2	MEM_A_A<2> 15 30
101	A1	30 15 MEM_A_A<1>	102	A0	MEM_A_A<0> 15 30
103	VDD6		104	VDD7	
105	A10/AP	30 15 MEM_A_A<10>	106	BA1	MEM_A_BS<1> 15 30
107	BA0	30 15 MEM_A_BS<0>	108	RAS*	MEM_A_RAS_L 15 30
109	WE*	30 15 MEM_A_WE_L	110	S0*	MEM_CS_L<0> 14 30
111	VDD8		112	VDD9	
113	CAS*	30 15 MEM_A_CAS_L	114	ODT0	MEM_ODT<0> 14 30
115	NC/S1*	30 14 MEM_CS_L<1>	116	NC/A13	MEM_A_A<13> 15 30
117	VDD10		118	VDD11	
119	NC/ODT1	30 14 MEM_ODT<1>	120	NC3	NC
121	VSS31		122	VSS32	
123	DQ32	15 MEM_A_DQ<32>	124	DQ36	MEM_A_DQ<36> 15
125	DQ33	15 MEM_A_DQ<33>	126	DQ37	MEM_A_DQ<37> 15
127	VSS33		128	VSS34	
129	DQS4*	15 5 MEM_A_DQS_N<4>	130	DM4	MEM_A_DM<4> 15
131	DQS4	15 5 MEM_A_DQS_P<4>	132	VSS35	
133	VSS36		134	DQ38	MEM_A_DQ<38> 15
135	DQ34	15 MEM_A_DQ<34>	136	DQ39	MEM_A_DQ<39> 5 15
137	DQ35	15 MEM_A_DQ<35>	138	VSS37	
139	VSS38		140	DQ44	MEM_A_DQ<44> 15
141	DQ40	15 MEM_A_DQ<40>	142	DQ45	MEM_A_DQ<45> 15
143	DQ41	15 MEM_A_DQ<41>	144	VSS39	
145	VSS40		146	DQS5*	MEM_A_DQS_N<5> 5 15
147	DM5	15 MEM_A_DM<5>	148	DQS5	MEM_A_DQS_P<5> 5 15
149	VSS41		150	VSS42	
151	DQ42	15 MEM_A_DQ<42>	152	DQ46	MEM_A_DQ<46> 15
153	DQ43	15 MEM_A_DQ<43>	154	DQ47	MEM_A_DQ<47> 5 15
155	VSS43		156	VSS44	
157	DQ48	15 MEM_A_DQ<48>	158	DQ52	MEM_A_DQ<52> 15
159	DQ49	15 MEM_A_DQ<49>	160	DQ53	MEM_A_DQ<53> 15
161	VSS45		162	VSS46	
163	NC_TEST	NC	164	CK1	MEM_CLK_P<1> 14
165	VSS47		166	CK1*	MEM_CLK_N<1> 14
167	DQS6*	15 5 MEM_A_DQS_N<6>	168	VSS48	
169	DQS6	15 5 MEM_A_DQS_P<6>	170	DM6	MEM_A_DM<6> 15
171	VSS49		172	VSS50	
173	DQ50	15 MEM_A_DQ<50>	174	DQ54	MEM_A_DQ<54> 5 15
175	DQ51	15 MEM_A_DQ<51>	176	DQ55	MEM_A_DQ<55> 15
177	VSS51		178	VSS52	
179	DQ56	15 MEM_A_DQ<56>	180	DQ60	MEM_A_DQ<60> 15
181	DQ57	15 MEM_A_DQ<57>	182	DQ61	MEM_A_DQ<61> 15
183	VSS53		184	VSS54	
185	DM7	15 MEM_A_DM<7>	186	DQS7*	MEM_A_DQS_N<7> 5 15
187	VSS55		188	DQS7	MEM_A_DQS_P<7> 5 15
189	DQ58	15 MEM_A_DQ<58>	190	VSS56	
191	DQ59	15 5 MEM_A_DQ<59>	192	DQ62	MEM_A_DQ<62> 15
193	VSS57		194	DQ63	MEM_A_DQ<63> 15
195	SDA	29 27 =I2C_MEM_SDA	196	VSS58	
197	SCL	29 27 =I2C_MEM_SCL	198	SA0	
199	VDDSPD		200	SA1	ADDR=0xA0(WR)/0xA1(RD)
201	GND				
202	GND				
203	GND				
204	GND				
205	GND				

516S0403 ALL NC'S

5 6 28 29 =PP1V8_S3_MEM

DIMM_OVERTEMP_L

TP_MEM_A_A<15>

TP_MEM_A_A<14>

DDR2 Bypass Caps

(For return current)

29 28 6 5 =PP1V8_S3_MEM

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% 10V CERM 402
C2811 0.1uF 20% 10V CERM 402
C2812 0.1uF 20% 10V CERM 402
C2813 0.1uF 20% 10V CERM 402

C2814 0.1uF 20% 10V CERM 402
C2815 0.1uF 20% 10V CERM 402
C2816 0.1uF 20% 10V CERM 402
C2817 0.1uF 20% 10V CERM 402

C2818 0.1uF 20% 10V CERM 402
C2819 0.1uF 20% 10V CERM 402
C2820 0.1uF 20% 10V CERM 402
C2821 0.1uF 20% 10V CERM 402

29 6 =PPSPD_S0_MEM

C2851 2.2UF 20% 6.3V CERM1 603

C2852 0.1uF 20% 10V CERM 402

DDR2 SO-DIMM Connector A

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE: NONE SHT: 28 OF: 110

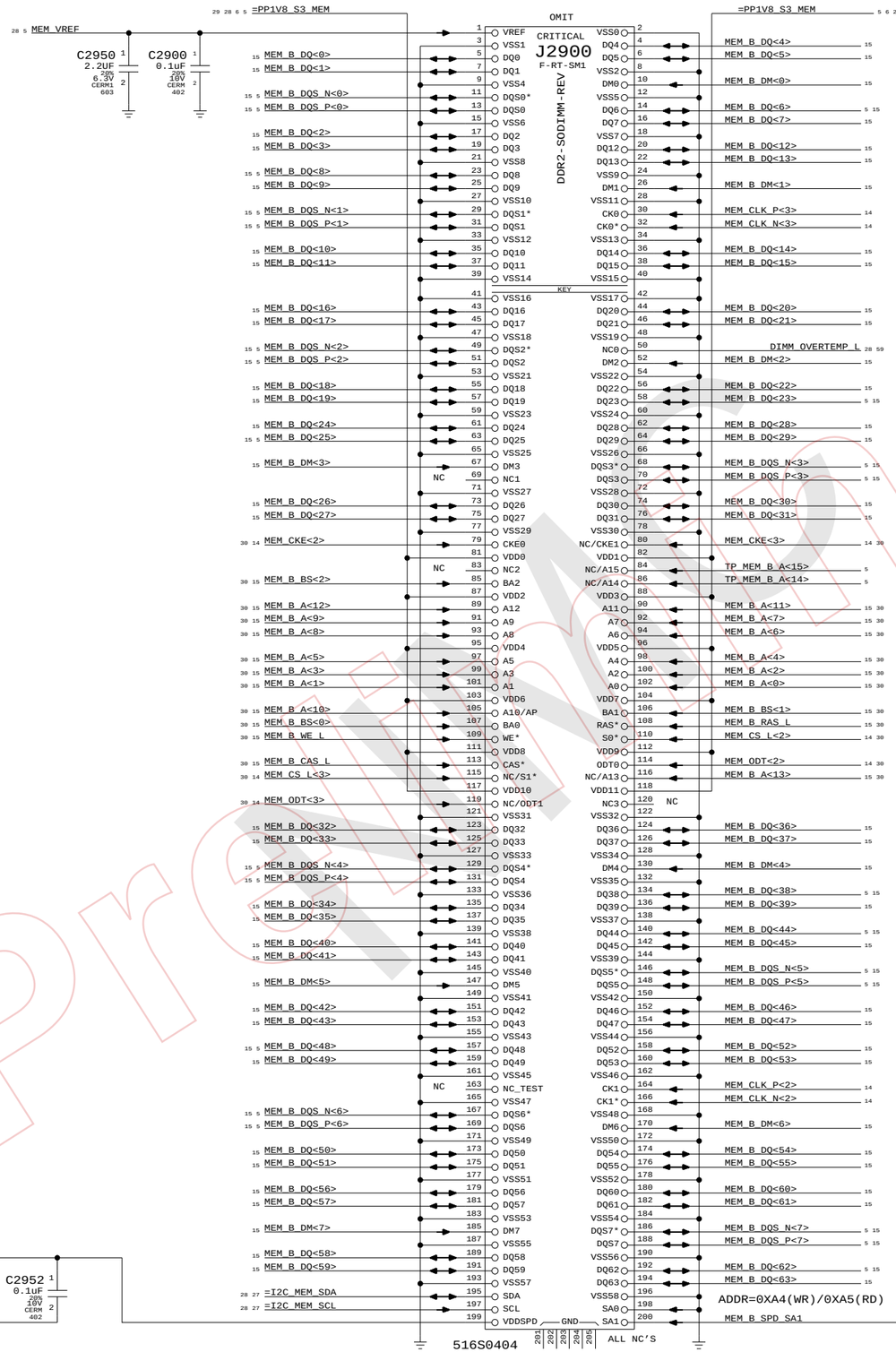
Page Notes

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
516S0504	1	DDR2 SODIMM REV CONN	J2900	CRITICAL	

DDR2 Bypass Caps

(For return current)

DDR2 SO-DIMM Connector B

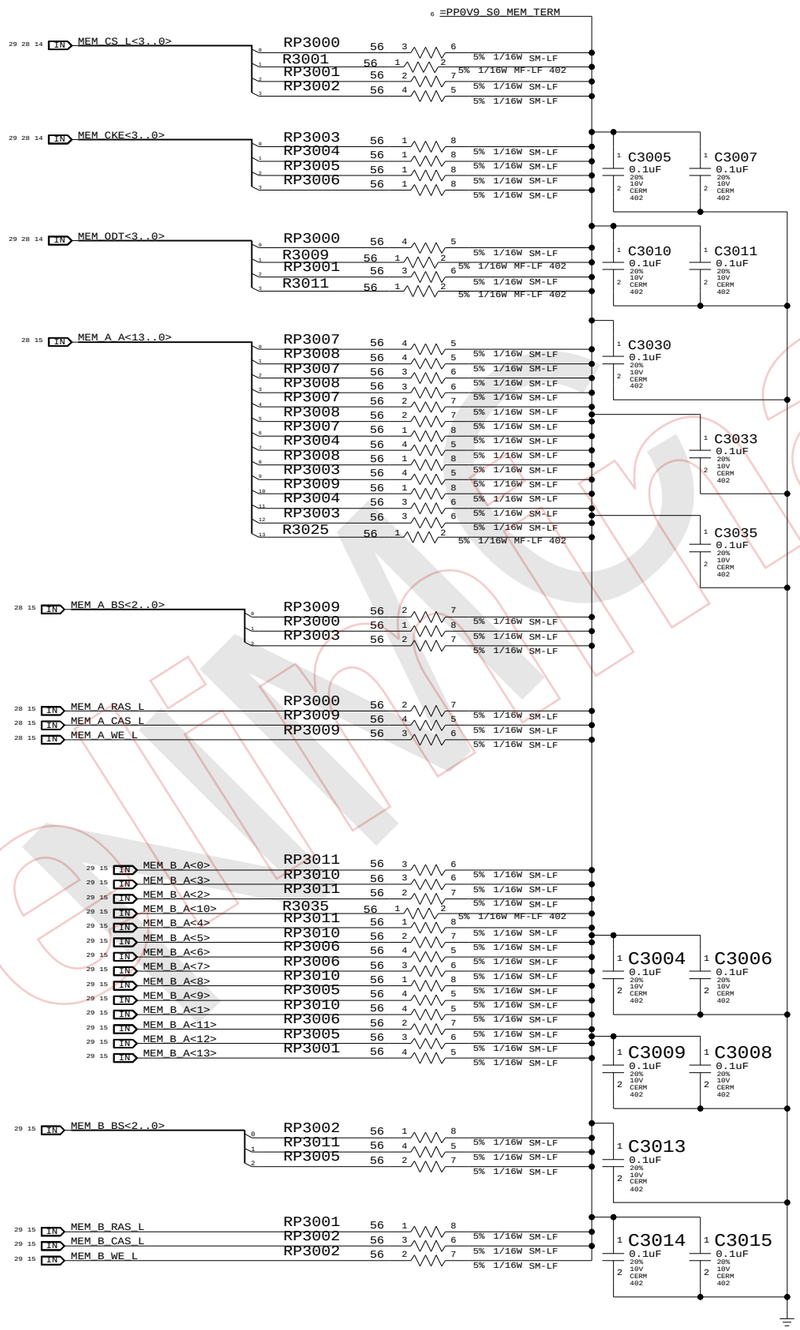
SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE	SHT	OF
NONE	29	110

One cap for each side of every RPAK, one cap for every two discrete resistors
BOMOPTION shown at the top of each group applies to every part below it



Memory Active Termination

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE	SHT	OF
NONE	30	110

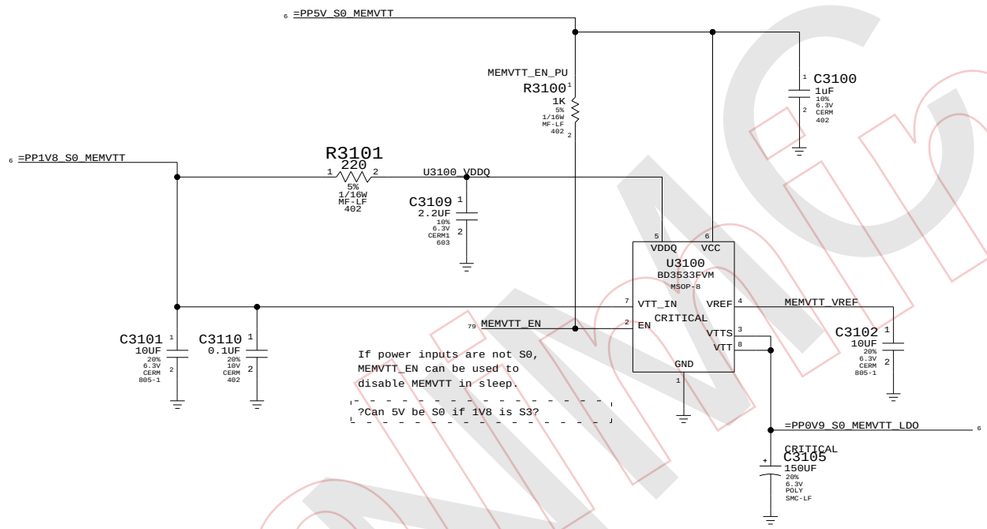
Page Notes

Power aliases required by this page:
- =PP5V_S0_MEMVTT
- =PP1V8_S0_MEMVTT
- =PP0V9_S0_MEMVTT_LDO

Signal aliases required by this page:
(NONE)

BOM options provided by this page:
(NONE)

DDR2 Vtt Regulator



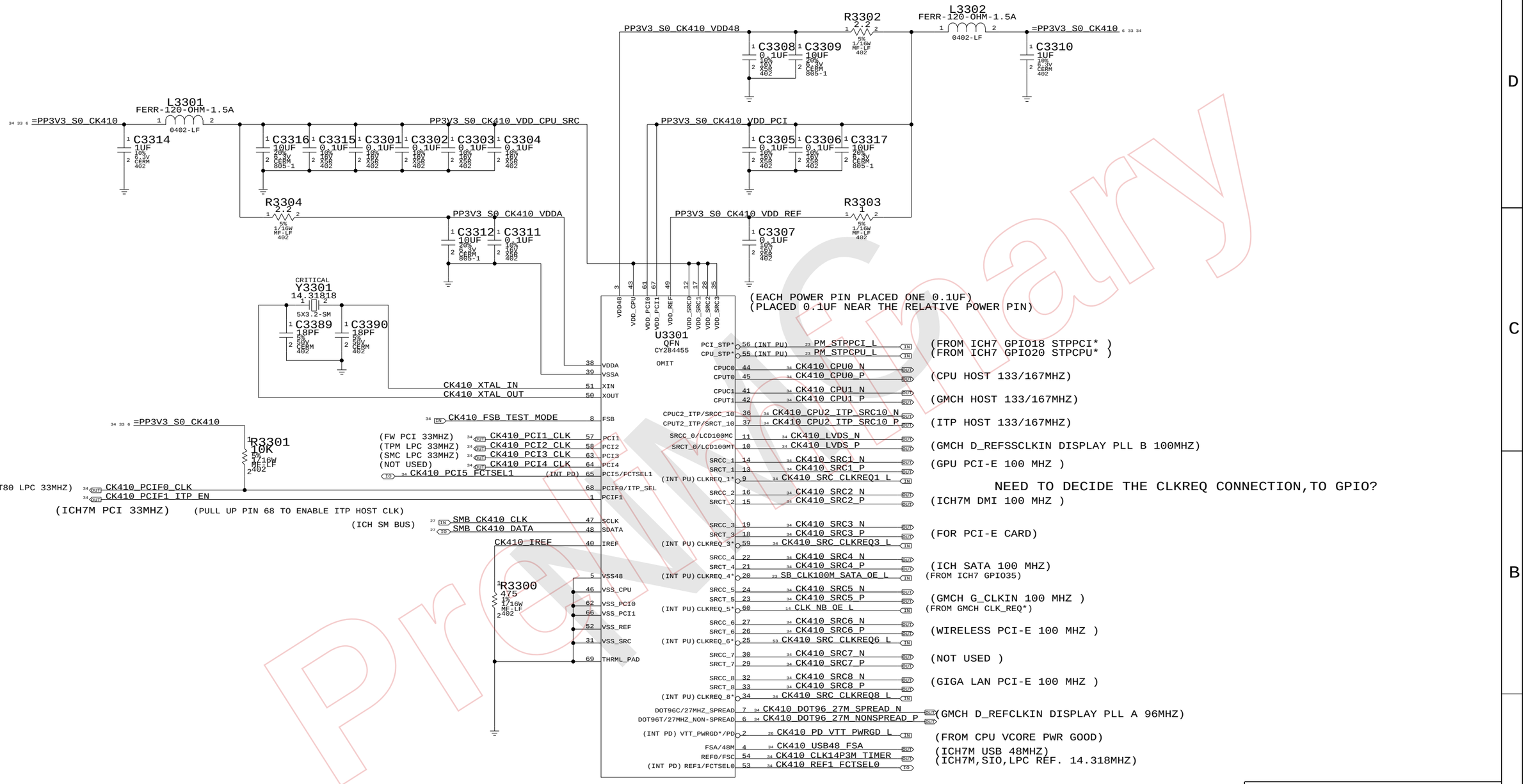
Memory Vtt Supply

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE	SHT	OF
NONE	31	110



FCTSEL1	FCTSEL0	PIN 6	PIN 7	PIN 10	PIN 11	
0	0	DOT96T	DOT96C	100MT_SST	100MC_SST	* FOR INT. GRAPHIC SYSTEM
0	1	DOT96T	DOT96C	SRCT0	SRCC0	
1	0	27M_NON SPREAD	27M SPREAD	SRCT0	SRCC0	* FOR EXT. GRAPHIC SYSTEM
1	1	OFF LOW	TBD	SRCT0	SRCC0	

CLOCKS

SYNC_MASTER=CLOCK SYNC_DATE=06/03/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT 33 OF 110	

NOTE: USE THESE PULL-DOWNS IF NOT CONNECTED TO GPIO'S

33 CK410_SRC_CLKREQ1_L (GPU CLK OE*) R3495 1K
33 CK410_SRC_CLKREQ3_L (SPARE CLK OE*) R3494 1K
33 CK410_SRC_CLKREQ8_L (YUKON CLK OE*) R3493 1K

FSB FREQUENCY SELECT:

	STUFF	NO STUFF
CPU DRIVEN	R3454 R3459 R3463	R3452 R3457 R3461
533MHZ (133MHZ CPU CLK)	R3452 R3457 R3461	R3454 R3459 R3463
667MHZ (166MHZ CPU CLK)	R3452 R3461	R3454 R3459 R3463 R3457

81 34 6 PP1V05_S0

R3453 1K 1/16W 5% MF-LF 402
14 NB_BSEL<0>
34 CK410_FSA
R3455 1K 1/16W 5% MF-LF 402
NOSTUFF R3452 56 5% 1/16W MF-LF 402
R3454 0 5% 1/16W MF-LF 402
7 CPU_BSEL<0>

81 34 6 PP1V05_S0

R3458 1K 1/16W 5% MF-LF 402
14 NB_BSEL<1>
33 CK410_FSB_TEST_MODE
R3456 1K 5% 1/16W MF-LF 402
NOSTUFF R3457 0 5% 1/16W MF-LF 402
R3459 0 5% 1/16W MF-LF 402
7 CPU_BSEL<1>

81 34 6 PP1V05_S0

R3462 1K 1/16W 5% MF-LF 402
14 NB_BSEL<2>
34 CK410_FSC
R3460 1K 5% 1/16W MF-LF 402
NOSTUFF R3461 0 5% 1/16W MF-LF 402
R3463 0 5% 1/16W MF-LF 402
7 CPU_BSEL<2>

=PP3V3_S0_CK410 6 33

33 IO CK410_PCI5_FCTSEL1 R3499 1K 1/16W 5% MF-LF 402

R3497 2.2K 5% 1/16W MF-LF 402 CK410_FSC 34

33 IN CK410_CLK14P3M_TIMER R3498 33 1/16W 5% MF-LF 402 SB_CLK14P3M_TIMER OUT 5 23

33 IN CK410_REF1_FCTSEL0 R3496 33 TP_CLK14P3M_SPARE OUT

R3451 2.2K 5% 1/16W MF-LF 402 CK410_FSA 34

33 IN CK410_USB48_FSA R3400 33 1/16W 5% MF-LF 402 SB_CLK48M_USBCTLR OUT 5 23
33 IN CK410_PCI4_CLK R3406 33 TP_PCI_CLK_SPARE OUT 9
33 IN CK410_PCI3_CLK R3405 33 PCI_CLK_SMC OUT 58
33 IN CK410_PCI2_CLK R3404 33 PCI_CLK_TPM OUT 67
33 IN CK410_PCI1_CLK R3403 33 PCI_CLK_FW OUT 44

33 IN CK410_PCIF1_ITP_EN R3401 33 PCI_CLK_SB OUT 5 22
33 IN CK410_PCIF0_CLK R3402 33 PCI_CLK_PORT80 OUT 60

33 IN CK410_CPU1_P R3407 33 FSB_CLK_NB_P OUT 5 12 34
33 IN CK410_CPU1_N R3408 33 FSB_CLK_NB_N OUT 5 12 34
33 IN CK410_CPU0_P R3409 33 FSB_CLK_CPU_P OUT 5 7 34
33 IN CK410_CPU0_N R3410 33 FSB_CLK_CPU_N OUT 5 7 34
33 IN CK410_CPU2_ITP_SRC10_P R3411 33 34 FSB_CLK_XDP_P CPU_XDP_CLK_P 11
33 IN CK410_CPU2_ITP_SRC10_N R3412 33 MAKE_BASE=TRUE 34 FSB_CLK_XDP_N CPU_XDP_CLK_N 11
MAKE_BASE=TRUE

33 IN CK410_SRC6_P R3413 33 AIRPORT_CLK100M_PCIE_P OUT 34 53
33 IN CK410_SRC6_N R3414 33 AIRPORT_CLK100M_PCIE_N OUT 34 53
33 IN CK410_SRC5_P R3415 33 NB_CLK100M_GCLKIN_P OUT 5 14 34
33 IN CK410_SRC5_N R3416 33 NB_CLK100M_GCLKIN_N OUT 5 14 34
33 IN CK410_SRC4_P R3417 33 SB_CLK100M_SATA_P OUT 5 21 34
33 IN CK410_SRC4_N R3418 33 SB_CLK100M_SATA_N OUT 5 21 34
33 IN CK410_SRC2_P R3419 33 SB_CLK100M_DMI_P OUT 5 22 34
33 IN CK410_SRC2_N R3420 33 SB_CLK100M_DMI_N OUT 5 22 34
33 IN CK410_SRC8_P R3421 33 ENET_CLK100M_PCIE_P OUT 5 34 41
33 IN CK410_SRC8_N R3422 33 ENET_CLK100M_PCIE_N OUT 5 34 41
33 IN CK410_SRC1_P R3423 33 GPU_CLK100M_PCIE_P OUT 5 34 84
33 IN CK410_SRC1_N R3424 33 GPU_CLK100M_PCIE_N OUT 5 34 84
33 IN CK410_LVDS_P TP_CK410_LVDS_P
33 IN CK410_LVDS_N TP_CK410_LVDS_N

33 IN CK410_DOT96_27M_SPREAD_N R3470 33 CK410_27M_SPREAD OUT 92
33 IN CK410_DOT96_27M_NONSPREAD_P R3471 33 CK410_27M_NONSPREAD OUT 92

33 IN CK410_SRC3_P R3492 33 SPARE_SRC3_P R3488 49.9
33 IN CK410_SRC3_N R3491 33 SPARE_SRC3_N R3487 49.9
33 IN CK410_SRC7_P R3490 33 SPARE_SRC7_P R3486 49.9
33 IN CK410_SRC7_N R3489 33 SPARE_SRC7_N R3485 49.9

1% 402 1/16W MF-LF

34 12 5 FSB_CLK_NB_P R3429 49.9
34 12 5 FSB_CLK_NB_N R3430 49.9
34 7 5 FSB_CLK_CPU_P R3431 49.9
34 7 5 FSB_CLK_CPU_N R3432 49.9
34 FSB_CLK_XDP_P R3433 49.9
34 FSB_CLK_XDP_N R3434 49.9
53 34 AIRPORT_CLK100M_PCIE_P R3435 49.9
53 34 AIRPORT_CLK100M_PCIE_N R3436 49.9
34 14 5 NB_CLK100M_GCLKIN_P R3438 49.9
34 14 5 NB_CLK100M_GCLKIN_N R3437 49.9
34 21 5 SB_CLK100M_SATA_P R3439 49.9
34 21 5 SB_CLK100M_SATA_N R3440 49.9
34 22 5 SB_CLK100M_DMI_P R3442 49.9
34 22 5 SB_CLK100M_DMI_N R3441 49.9
41 34 5 ENET_CLK100M_PCIE_P R3443 49.9
41 34 5 ENET_CLK100M_PCIE_N R3444 49.9
84 34 5 GPU_CLK100M_PCIE_P R3446 49.9
84 34 5 GPU_CLK100M_PCIE_N R3445 49.9

CLOCKS: TERMINATIONS

SYNC_MASTER=N/A SYNC_DATE=N/A

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT 34 OF 110	

PATA CONNECTOR

38 6 =PP5V_S0_PATA
6 =PP3V3_S0_PATA

R2389 1K 5% 1/16W MF-LF 402
38 23 IDE_RESET_L

NOSTUFF R3824 10K Per ATA Spec
R3851 4.7K Per ATA Spec
NO STUFF R3852 10K
R3853 1K
CRITICAL JC901 804RVS-0501S5RGM F-ST-SM

		NC 1	2 NC
		3	4 NC
38 23	IDE_RESET_L	5	6 IDE_PDD<8> 21
21	IDE_PDD<7>	7	8 IDE_PDD<9> 5 21
21	IDE_PDD<6>	9	10 IDE_PDD<10> 21
21	IDE_PDD<5>	11	12 IDE_PDD<11> 21
21	IDE_PDD<4>	13	14 IDE_PDD<12> 21
21	IDE_PDD<3>	15	16 IDE_PDD<13> 21
21	IDE_PDD<2>	17	18 IDE_PDD<14> 21
21	IDE_PDD<1>	19	20 IDE_PDD<15> 21
21	IDE_PDD<0>	21	22
		23	24 IDE_PDIOR_L 5 21
21	IDE_PDIOW_L	25	26
21 OUT	IDE_PDIORDY	27	28 IDE_PDDACK_L 21
21 OUT	IDE_IRQ14	29	30 IDE_IOCS16_PU
21	IDE_PDA<1>	31	32 NC
21	IDE_PDA<0>	33	34 IDE_PDA<2> 21
21	IDE_PDCS1_L	35	36 IDE_PDCS3_L 21
	IDE_DASP_L	37	38
		39	40
		41	42
		43	44
		45	46
	IDE_CSEL_PD	47	48
		NC 49	50 NC

Obsolete
NOTE: ATA-2, NOW OBSOLETE
52
516S0327

NO STUFF C3804 10pF 5% 50V CERM 402
C3805 0.1UF 20% 10V CERM 402
C3806 10UF 20% 10V CERM 805-2

21 OUT IDE_PDDREQ

PLACE C3805-06 CLOSE TO JC901 FOR PP5V_S0_PATA
APPLY A WIDE TRACE SHAPE FROM JC901 TO C3805-06.
MIN NECK & MIN LINE WIDTH
ARE CONTROLLED BY PP5V_S0 1MM / 0.6MM.

38 6 =PP5V_S0_PATA
DEVELOPMENT R3857 .499 1% 1/16W 402 MF-LF
IDE_DASP_L_DS
DEVELOPMENT LED3800 GREEN-3.6MCD 2.0X1.25MM-SM "IDE ACTIVE"
R3858 0 5% 1/16W MF-LF 402 NOTE: ???
R3859 6.2K 5% 1/10W MF-LF 402 PER ATA7 SPEC STUFFED PER LARRY

PLACE SHORT AT PACKAGE
SATA_RBIAS MAKE_BASE=TRUE
21 SATA_RBIAS_N OUT
21 SATA_RBIAS_P OUT
R3897 24.9 1/16W MF-LF 402 1%
PLACE < 0.5 IN FROM BALL OF U2100

SATA CONNECTOR

JC900 EP00-081-91 M-ST-SM
518S0251

VALUE=3900PF IN REFERENCE SCHEM
CAPS TO BE SAME DISTANCE
FROM SB WITHIN EACH PAIR

	SATA_C_R2D_P	0.0047UF	C3803	21	SATA_C_R2D_C_P IN
	SATA_C_R2D_N	0.0047UF	C3801	21	SATA_C_R2D_C_N IN
	SATA_C_D2R_C_N	0.0047UF	C3800	21	SATA_C_D2R_N OUT
	SATA_C_D2R_C_P	0.0047UF	C3802	21	SATA_C_D2R_P OUT

23 SATA_C_DET_L OUT NOTE: GO TO SB AND SMC
R3899 100 5% 1/16W MF-LF 402

SATA DIFF PAIR GND VIAS
GV3801 HOLE-VIA-P5RP25
GV3802 HOLE-VIA-P5RP25
GV3803 HOLE-VIA-P5RP25
GV3804 HOLE-VIA-P5RP25
GV3805 HOLE-VIA-P5RP25
GV3806 HOLE-VIA-P5RP25
GV3807 HOLE-VIA-P5RP25
GV3808 HOLE-VIA-P5RP25

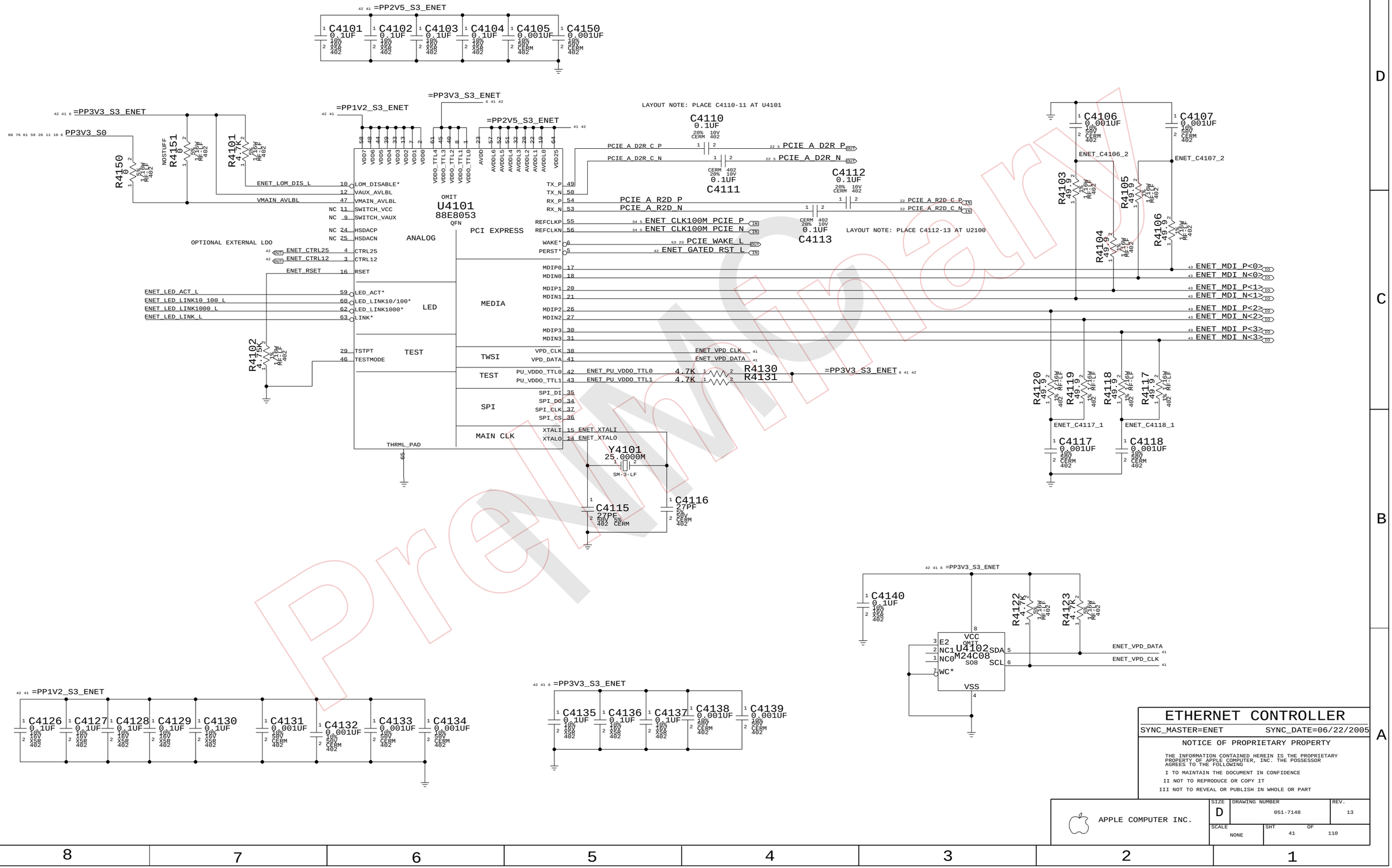
SATA PORT 0 IS NOT USED

21 IN	SATA_A_R2D_C_P	TP_SATA_A_R2D_P MAKE_BASE=TRUE
21 IN	SATA_A_R2D_C_N	TP_SATA_A_R2D_N MAKE_BASE=TRUE
21 OUT	SATA_A_D2R_P	TP_SATA_A_D2R_P MAKE_BASE=TRUE
21 OUT	SATA_A_D2R_N	TP_SATA_A_D2R_N MAKE_BASE=TRUE

Disk Connectors

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT 38 OF 110	



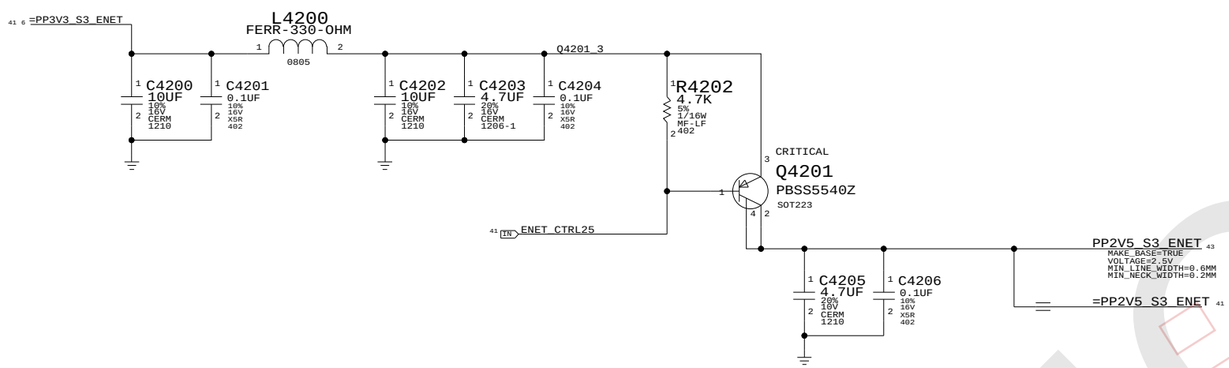
ETHERNET CONTROLLER

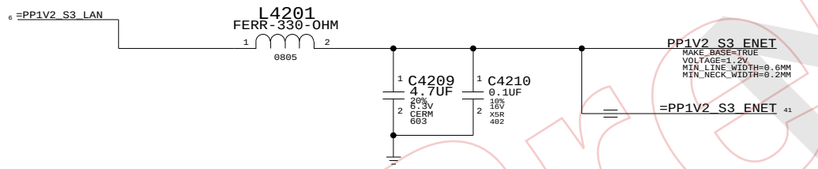
SYNC_MASTER=ENET SYNC_DATE=06/22/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE	SHT	OF
NONE	41	110

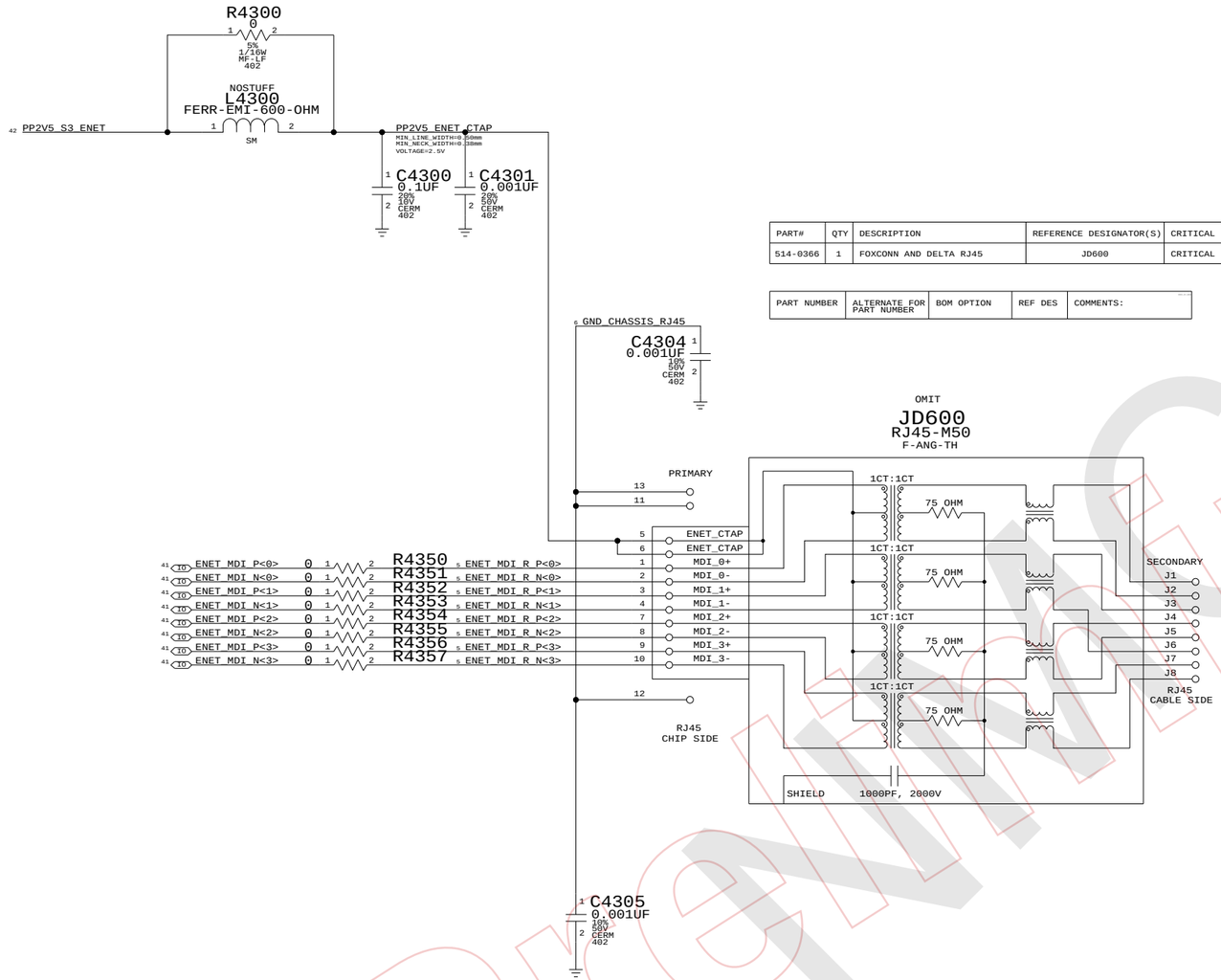




ETHERNET MISC

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	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	

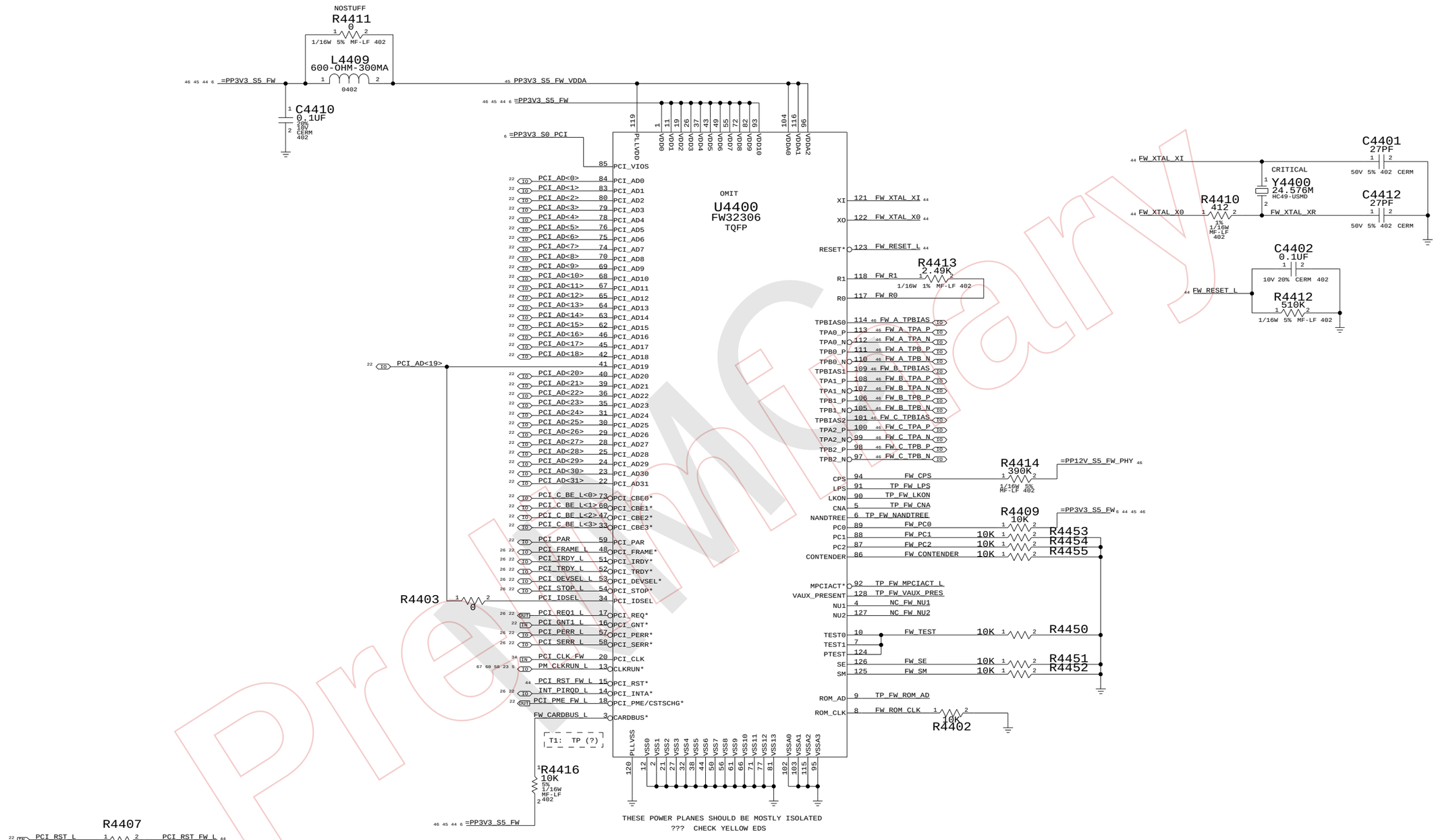
PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:

ETHERNET CONNECTOR

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE	SHT	OF
NONE	43	110



FW: FW323-06

SYNC_MASTER=N/A SYNC_DATE=N/A

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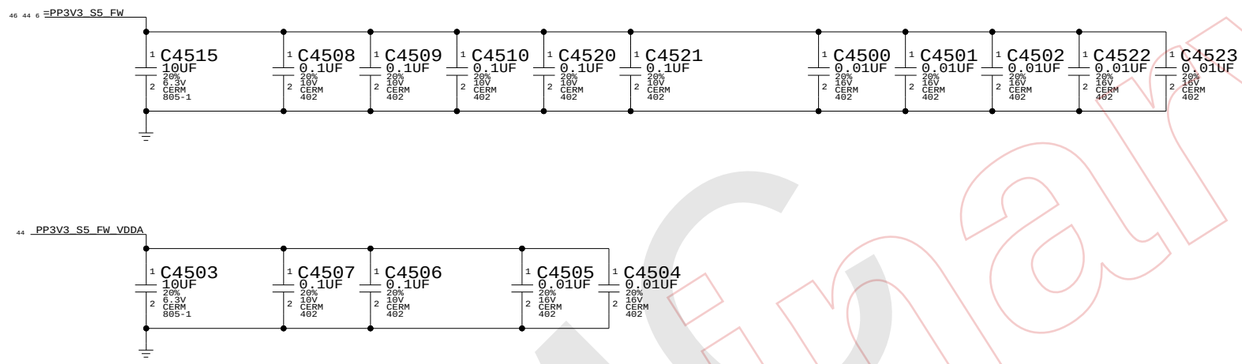
SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT 44 OF 110	



FW: DECAPS

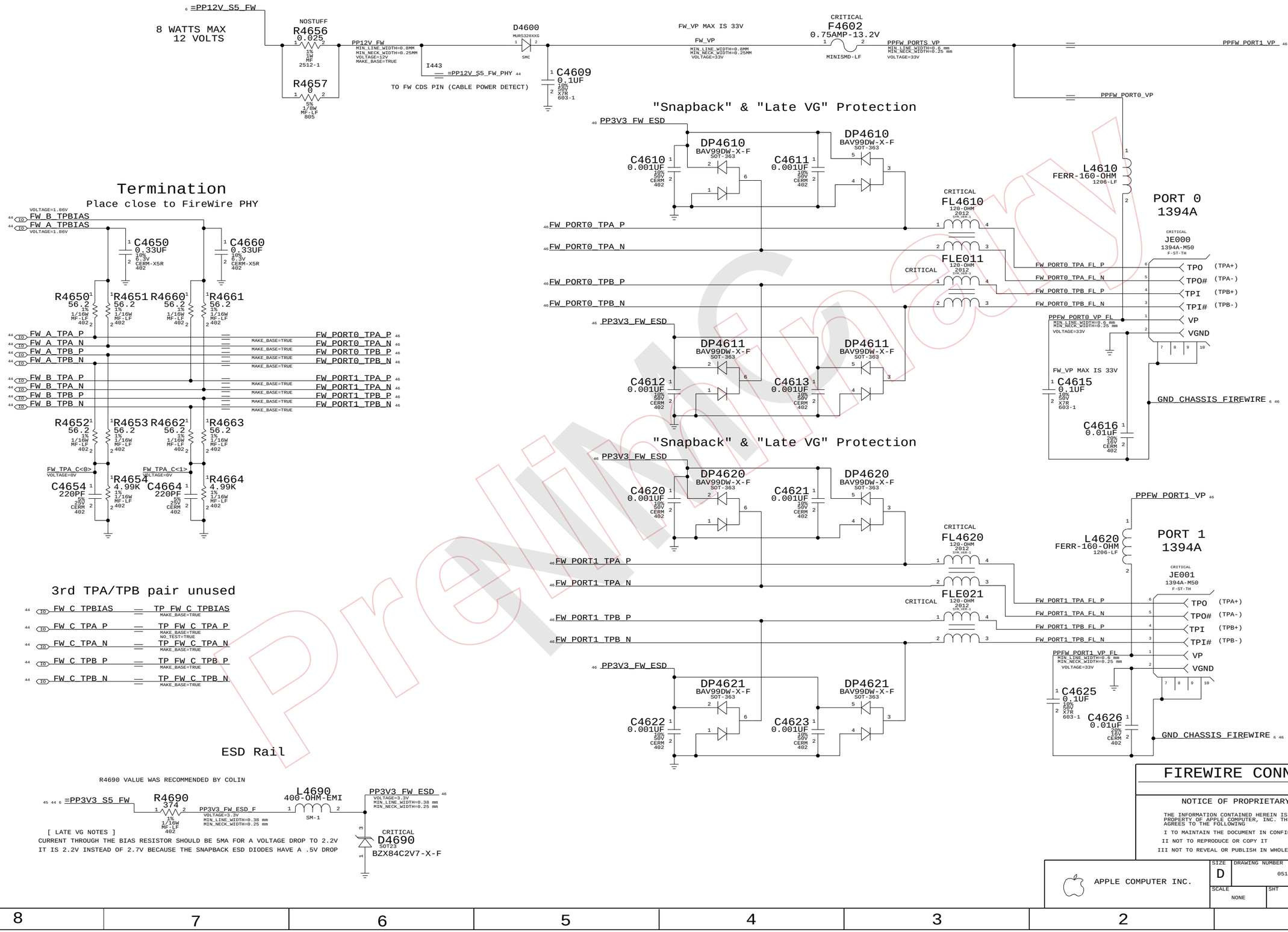
SYNC_MASTER=N/A SYNC_DATE=N/A

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE NONE

SHT 45 OF 110


=PP12V_S5_FW
8 WATTS MAX
12 VOLTS
NOSTUFF
R4656
0.025
1% 1W MF 2512-1
R4657
0
5% 1/8W MF-LF 805
PP12V_FW
MIN_LINE_WIDTH=0.8MM
MIN_NECK_WIDTH=0.25MM
VOLTAGE=12V
MAKE_BASE=TRUE
I443
=PP12V_S5_FW_PHY
TO FW CDS PIN (CABLE POWER DETECT)
D4600
MURS320XXG
SMC
C4609
0.1UF
10% 50V X7R 603-1
FW_VP MAX IS 33V
FW_VP
MIN_LINE_WIDTH=0.8MM
MIN_NECK_WIDTH=0.25MM
VOLTAGE=33V
CRITICAL
F4602
0.75AMP-13.2V
MINISMD-LF
PPFW_PORTS_VP
MIN_LINE_WIDTH=0.6 mm
MIN_NECK_WIDTH=0.25 mm
VOLTAGE=33V
PPFW_PORT1_VP
PPFW_PORT0_VP
Termination
Place close to FireWire PHY
VOLTAGE=1.86V
FW_B_TPBIAS
FW_A_TPBIAS
C4650
0.33UF
10% 6.3V CERM-X5R 402
C4660
0.33UF
10% 6.3V CERM-X5R 402
R4650 56.2
R4651 56.2
R4660 56.2
R4661 56.2
1% 1/16W MF-LF 402
FW_A_TPA_P
FW_A_TPA_N
FW_A_TPB_P
FW_A_TPB_N
FW_B_TPA_P
FW_B_TPA_N
FW_B_TPB_P
FW_B_TPB_N
MAKE_BASE=TRUE
FW_PORT0_TPA_P
FW_PORT0_TPA_N
FW_PORT0_TPB_P
FW_PORT0_TPB_N
FW_PORT1_TPA_P
FW_PORT1_TPA_N
FW_PORT1_TPB_P
FW_PORT1_TPB_N
R4652 56.2
R4653 56.2
R4662 56.2
R4663 56.2
FW_TPA_C<0>
FW_TPA_C<1>
VOLTAGE=0V
C4654
220PF
5% 25V CERM 402
C4664
220PF
5% 25V CERM 402
R4654
4.99K
R4664
4.99K
1% 1/16W MF-LF 402
3rd TPA/TPB pair unused
FW_C_TPBIAS
FW_C_TPA_P
FW_C_TPA_N
FW_C_TPB_P
FW_C_TPB_N
TP_FW_C_TPBIAS
TP_FW_C_TPA_P
TP_FW_C_TPA_N
TP_FW_C_TPB_P
TP_FW_C_TPB_N
MAKE_BASE=TRUE
NO_TEST=TRUE
ESD Rail
R4690 VALUE WAS RECOMMENDED BY COLIN
=PP3V3_S5_FW
R4690
374
1% 1/16W MF-LF 402
PP3V3_FW_ESD_F
VOLTAGE=3.3V
MIN_LINE_WIDTH=0.38 mm
MIN_NECK_WIDTH=0.25 mm
L4690
400-OHM-EMI
SM-1
PP3V3_FW_ESD
VOLTAGE=3.3V
MIN_LINE_WIDTH=0.38 mm
MIN_NECK_WIDTH=0.25 mm
CRITICAL
D4690
SOT23
BZX84C2V7-X-F
[LATE VG NOTES]
CURRENT THROUGH THE BIAS RESISTOR SHOULD BE 5MA FOR A VOLTAGE DROP TO 2.2V
IT IS 2.2V INSTEAD OF 2.7V BECAUSE THE SNAPBACK ESD DIODES HAVE A .5V DROP
"Snapback" & "Late VG" Protection
PP3V3_FW_ESD
DP4610
BAV99DW-X-F
SOT-363
C4610
0.001UF
10% 50V CERM 402
C4611
0.001UF
10% 50V CERM 402
CRITICAL
FL4610
120-OHM 2012
SYM_VER-1
FLE011
L4610
FERR-160-OHM
1206-LF
PORT 0
1394A
CRITICAL
JE000
1394A-M50
F-ST-TH
TPO (TPA+)
TPO# (TPA-)
TPI (TPB+)
TPI# (TPB-)
VP
VGND
GND_CHASSIS_FIREWIRE
FW_PORT0_TPA_FL_P
FW_PORT0_TPA_FL_N
FW_PORT0_TPB_FL_P
FW_PORT0_TPB_FL_N
PPFW_PORT0_VP_FL
C4615
0.1UF
C4616
0.01uF
DP4611
C4612
0.001UF
C4613
0.001UF
"Snapback" & "Late VG" Protection
DP4620
C4620
0.001UF
C4621
0.001UF
FL4620
FLE021
L4620
PORT 1
1394A
JE001
FW_PORT1_TPA_FL_P
FW_PORT1_TPA_FL_N
FW_PORT1_TPB_FL_P
FW_PORT1_TPB_FL_N
PPFW_PORT1_VP_FL
C4625
0.1UF
C4626
0.01uF
DP4621
C4622
0.001UF
C4623
0.001UF
FIREWIRE CONNECTORS
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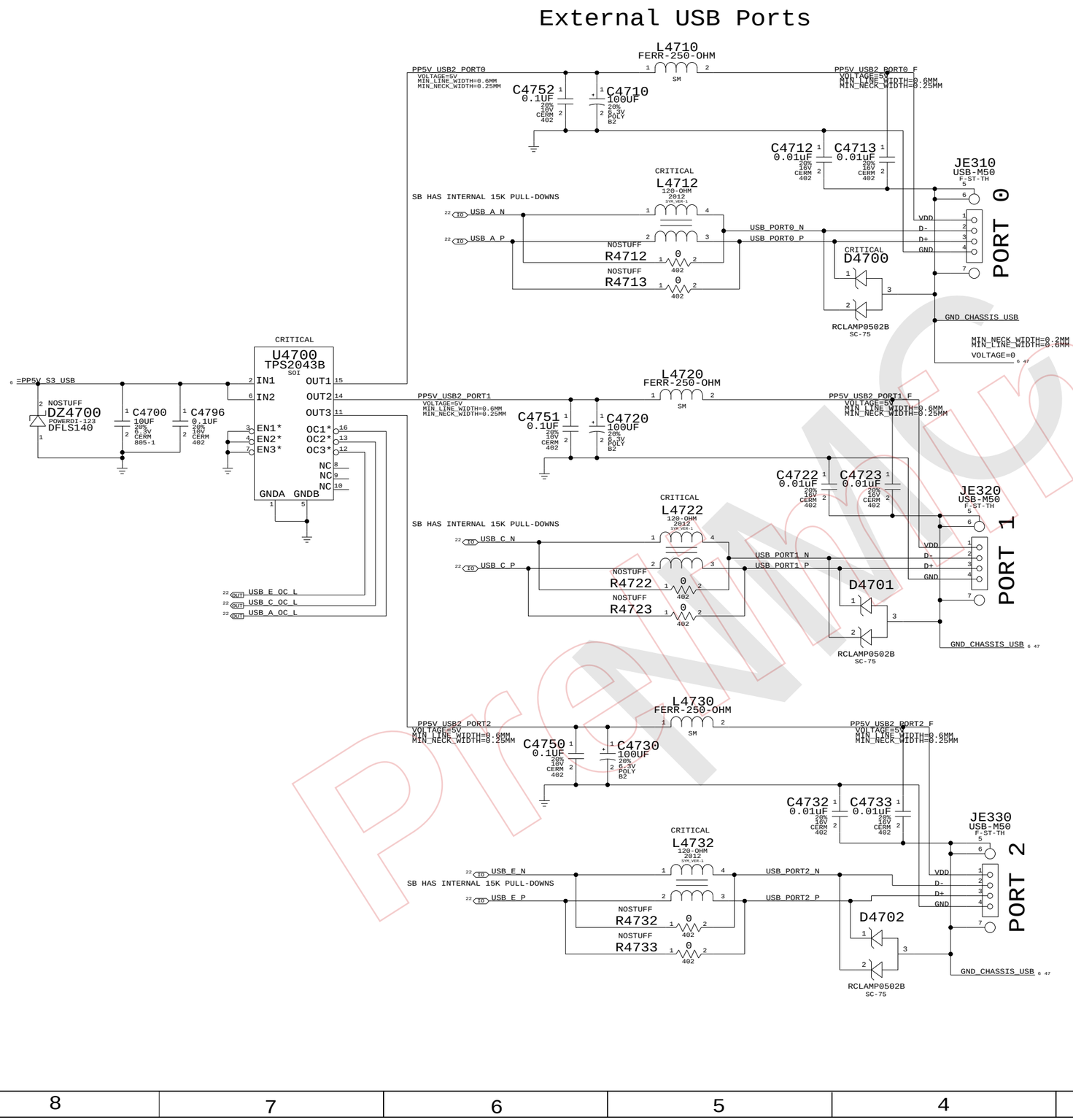
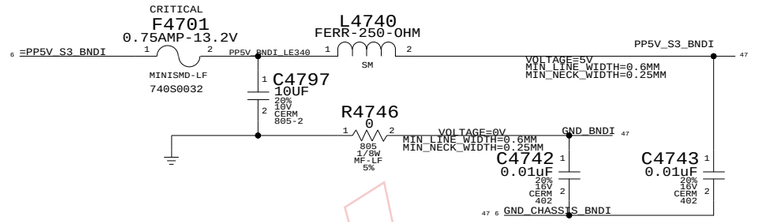
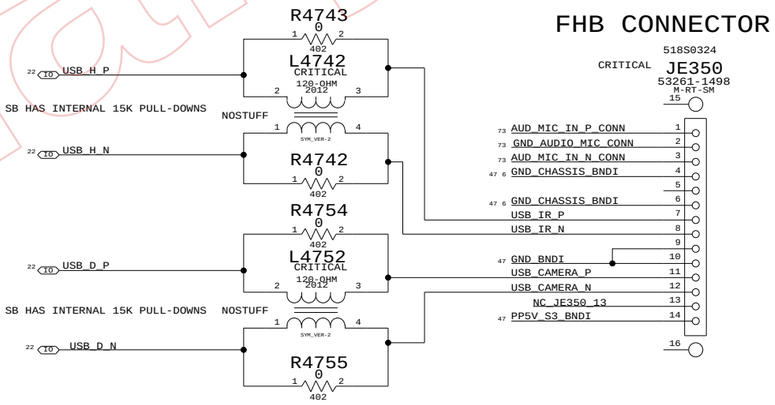
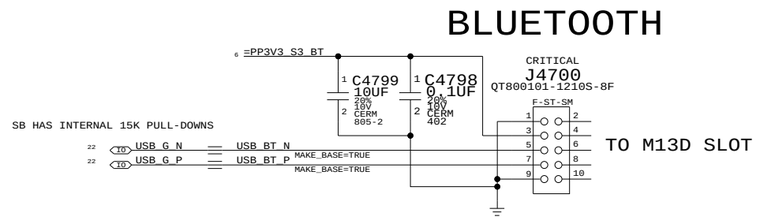
SIZE D
DRAWING NUMBER 051-7148
REV. 13
SCALE NONE
SHT 46 OF 110

External USB Ports









NOTE: STANDOFFS FOR J4700

SDF4700
STDOFF-40D4.5H-1.35-TH

SDF4701
STDOFF-40D4.5H-1.35-TH

USB Device Interfaces

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT: 47	OF: 110

BLANK

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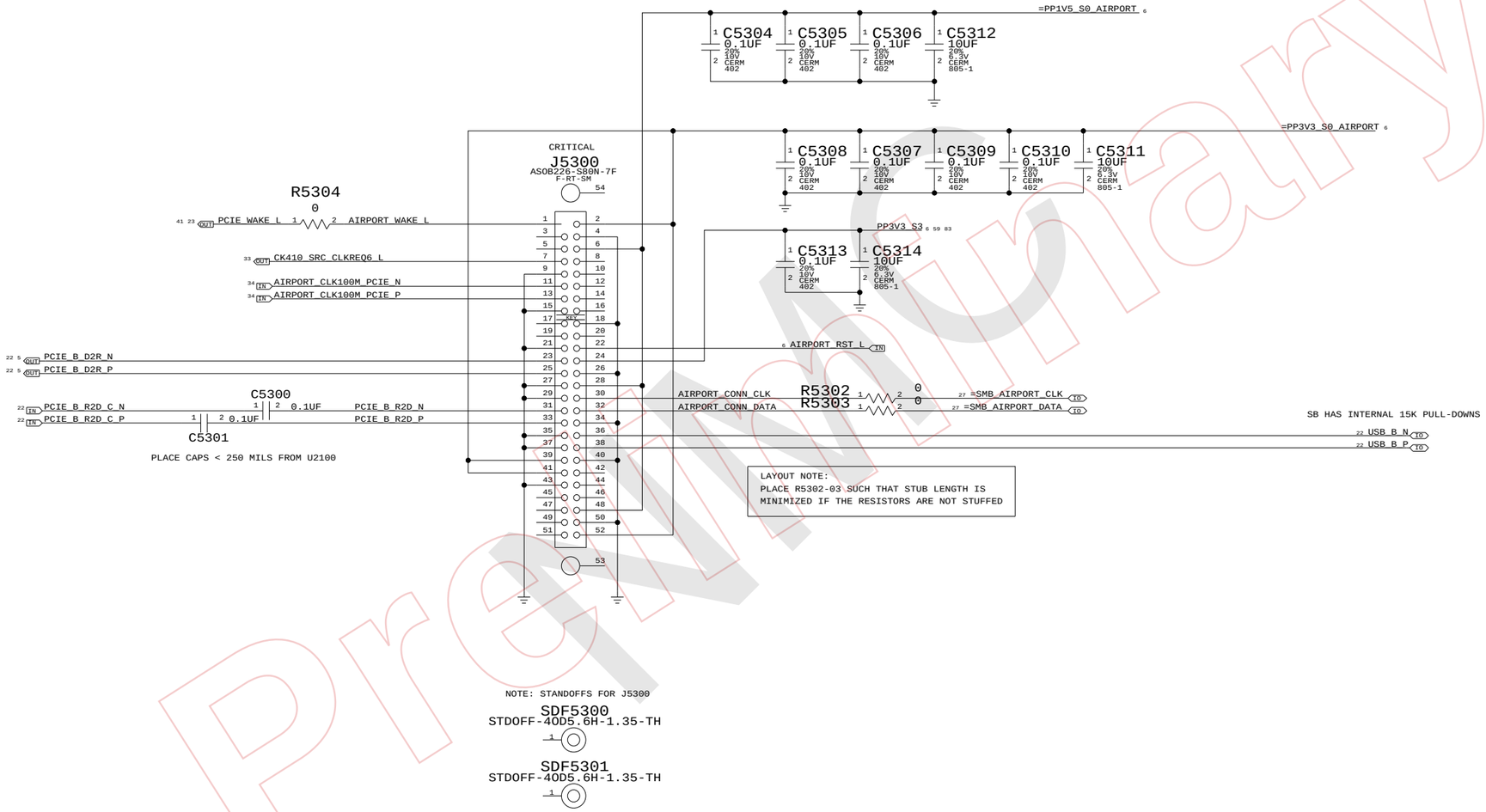
SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE NONE

SHT 48 OF 110



AIRPORT CONN

SYNC_MASTER=N/A SYNC_DATE=N/A

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE: NONE

SHT 53 OF 110

22 IN PCIE_C_R2D_C_N — TP_PCIE_C_R2D_C_N MAKE_BASE=TRUE
22 IN PCIE_C_R2D_C_P — TP_PCIE_C_R2D_C_P MAKE_BASE=TRUE

22 OUT PCIE_C_D2R_N — TP_PCIE_C_D2R_N MAKE_BASE=TRUE
22 OUT PCIE_C_D2R_P — TP_PCIE_C_D2R_P MAKE_BASE=TRUE

22 IN PCIE_D_R2D_C_N — TP_PCIE_D_R2D_C_N MAKE_BASE=TRUE
22 IN PCIE_D_R2D_C_P — TP_PCIE_D_R2D_C_P MAKE_BASE=TRUE

22 OUT PCIE_D_D2R_N — TP_PCIE_D_D2R_N MAKE_BASE=TRUE
22 OUT PCIE_D_D2R_P — TP_PCIE_D_D2R_P MAKE_BASE=TRUE

22 IN PCIE_E_R2D_C_N — TP_PCIE_E_R2D_C_N MAKE_BASE=TRUE
22 IN PCIE_E_R2D_C_P — TP_PCIE_E_R2D_C_P MAKE_BASE=TRUE

22 OUT PCIE_E_D2R_N — TP_PCIE_E_D2R_N MAKE_BASE=TRUE
22 OUT PCIE_E_D2R_P — TP_PCIE_E_D2R_P MAKE_BASE=TRUE

22 IN PCIE_F_R2D_C_N — TP_PCIE_F_R2D_C_N MAKE_BASE=TRUE
22 IN PCIE_F_R2D_C_P — TP_PCIE_F_R2D_C_P MAKE_BASE=TRUE

22 OUT PCIE_F_D2R_N — TP_PCIE_F_D2R_N MAKE_BASE=TRUE
22 OUT PCIE_F_D2R_P — TP_PCIE_F_D2R_P MAKE_BASE=TRUE

PCIE UNUSED PORTS

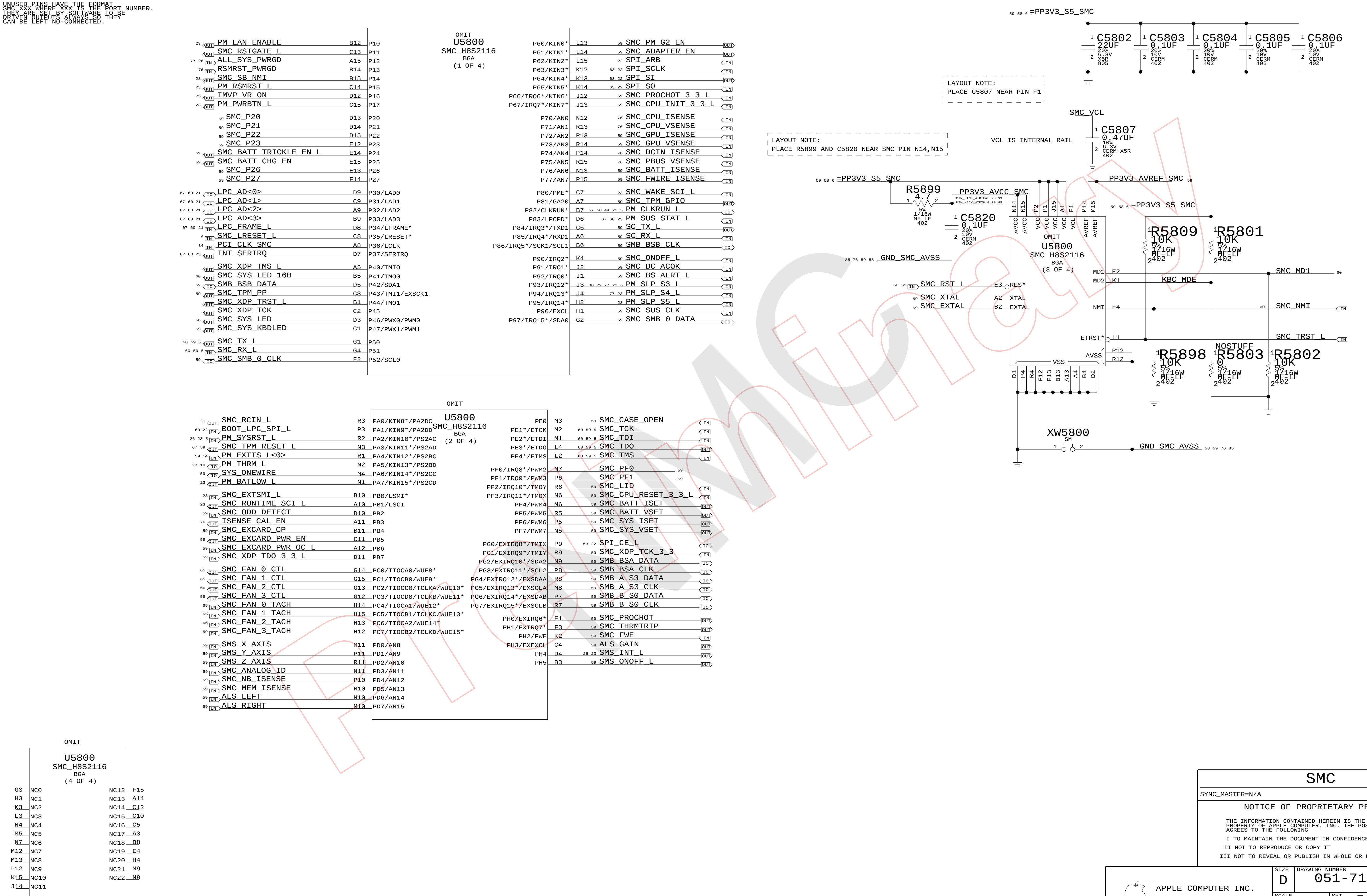
SYNC_MASTER=N/A SYNC_DATE=N/A

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE: NONE SHT 54 OF 110

UNUSED PINS HAVE THE FORMAT SMC_XXX WHERE XXX IS THE PORT NUMBER. THEY ARE SET BY SOFTWARE TO BE DRIVEN OUTPUTS ALWAYS SO THEY CAN BE LEFT NO-CONNECTED.



OMIT
U5800
SMC_H8S2116
BGA
(1 OF 4)
PM_LAN_ENABLE
SMC_RSTGATE_L
ALL_SYS_PWRGD
RSMRST_PWRGD
SMC_SB_NMI
PM_RSMRST_L
IMVP_VR_ON
PM_PWRBTN_L
SMC_P20
SMC_P21
SMC_P22
SMC_P23
SMC_BATT_TRICKLE_EN_L
SMC_BATT_CHG_EN
SMC_P26
SMC_P27
LPC_AD<0>
LPC_AD<1>
LPC_AD<2>
LPC_AD<3>
LPC_FRAME_L
LPC_LRESET_L
PCI_CLK_SMC
INT_SERIRQ
SMC_XDP_TMS_L
SMC_SYS_LED_16B
SMB_BSB_DATA
SMC_TPM_PP
SMC_XDP_TRST_L
SMC_XDP_TCK
SMC_SYS_LED
SMC_SYS_KBDLED
SMC_TX_L
SMC_RX_L
SMC_SMB_0_CLK
SMC_PM_G2_EN
SMC_ADAPTER_EN
SPI_ARB
SPI_SCLK
SPI_SI
SPI_SO
SMC_PROCHOT_3_3_L
SMC_CPU_INIT_3_3_L
SMC_CPU_ISENSE
SMC_CPU_VSENSE
SMC_GPU_ISENSE
SMC_GPU_VSENSE
SMC_DCIN_ISENSE
SMC_PBUS_VSENSE
SMC_BATT_ISENSE
SMC_FWIRE_ISENSE
SMC_WAKE_SCI_L
SMC_TPM_GPIO
PM_CLKRUN_L
PM_SUS_STAT_L
SC_TX_L
SC_RX_L
SMB_BSB_CLK
SMC_ONOFF_L
SMC_BC_ACOK
SMC_BS_ALRT_L
PM_SLP_S3_L
PM_SLP_S4_L
PM_SLP_S5_L
SMC_SUS_CLK
SMC_SMB_0_DATA
U5800
SMC_H8S2116
BGA
(2 OF 4)
SMC_RCIN_L
BOOT_LPC_SPI_L
PM_SYSRST_L
SMC_TPM_RESET_L
PM_EXTTS_L<0>
PM_THRM_L
SYS_ONEWIRE
PM_BATLOW_L
SMC_EXTSMI_L
SMC_RUNTIME_SCI_L
SMC_ODD_DETECT
ISENSE_CAL_EN
SMC_EXCARD_CP
SMC_EXCARD_PWR_EN
SMC_EXCARD_PWR_OC_L
SMC_XDP_TDO_3_3_L
SMC_FAN_0_CTL
SMC_FAN_1_CTL
SMC_FAN_2_CTL
SMC_FAN_3_CTL
SMC_FAN_0_TACH
SMC_FAN_1_TACH
SMC_FAN_2_TACH
SMC_FAN_3_TACH
SMS_X_AXIS
SMS_Y_AXIS
SMS_Z_AXIS
SMC_ANALOG_ID
SMC_NB_ISENSE
SMC_MEM_ISENSE
ALS_LEFT
ALS_RIGHT
SMC_CASE_OPEN
SMC_TCK
SMC_TDI
SMC_TDO
SMC_TMS
SMC_PF0
SMC_PF1
SMC_LID
SMC_CPU_RESET_3_3_L
SMC_BATT_ISET
SMC_BATT_VSET
SMC_SYS_ISET
SMC_SYS_VSET
SPI_CE_L
SMC_XDP_TCK_3_3
SMB_BSA_DATA
SMB_BSA_CLK
SMB_A_S3_DATA
SMB_A_S3_CLK
SMB_B_S0_DATA
SMB_B_S0_CLK
SMC_PROCHOT
SMC_THRMTRIP
SMC_FWE
ALS_GAIN
SMS_INT_L
SMS_ONOFF_L
U5800
SMC_H8S2116
BGA
(4 OF 4)
=PP3V3_S5_SMC
C5802 22UF 20% 6.3V X5R 805
C5803 0.1UF 20% 10V CERM 402
C5804 0.1UF 20% 10V CERM 402
C5805 0.1UF 20% 10V CERM 402
C5806 0.1UF 20% 10V CERM 402
LAYOUT NOTE:
PLACE C5807 NEAR PIN F1
SMC_VCL
VCL IS INTERNAL RAIL
C5807 0.47UF 10% 6.3V CERM-X5R 402
LAYOUT NOTE:
PLACE R5899 AND C5820 NEAR SMC PIN N14,N15
R5899 4.7 5% 1/16W MF-LF 402
PP3V3_AVCC_SMC
PP3V3_AVREF_SMC
C5820 0.1UF 20% 10V CERM 402
GND_SMC_AVSS
U5800
SMC_H8S2116
BGA
(3 OF 4)
R5809 10K
R5801 10K
SMC_MD1
KBC_MDE
SMC_RST_L
SMC_XTAL
SMC_EXTAL
SMC_NMI
SMC_TRST_L
R5898 10K
NOSTUFF
R5803 0
R5802 10K
XW5800
SM
GND_SMC_AVSS

SMC	
SYNC_MASTER=N/A	SYNC_DATE=N/A

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SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE NONE	SHT 58 OF 110	

SMC RESET BUTTON

=PP3V3_S5_SMC

C5901 0.1uF 20% 10V CERM 402

C5900 0.01UF 10V CERM 402

U5900 RN5VD30A-F SOT23-5 — CRITICAL — VDD, CD, NC, GND, OUT

R5900 1K 5% 1/16W MF-LF 402

SW5900 SPST SM-LF — DEVELOPMENT

SMC_MANUAL_RST_L → SMC_RST_L

AMBIENT LIGHT SENSOR CONNECTOR

(REF DES PRESERVED FOR PLACEMENT PURPOSE)

I2C ADDR:72(1001000)

J2901 CRITICAL 53398-0476 F-ST-SM — 518S0328

PP3V3_S3, I2C_ALS_SDA, I2C_ALS_SCL

SMC 3.3V -> CPU 1.05V SHIFTER

CPU_PROCHOT_L → Q5901 2N7002DW-X-F SOT-363 → SMC_PROCHOT

PM_THRMTRIP_L → Q5901 2N7002DW-X-F SOT-363 → SMC_THRMTRIP

POWER BUTTON HEADER

(REF DES PRESERVED FOR PLACEMENT PURPOSE)

J2903 53398-0276 M-ST-SM — 518S0327

POWER_BUTTON_L

R5907 1K 5% 1/16W MF-LF 402

SYS POWER BUTTON — SW5901 SPST SM-LF — DEVELOPMENT

SMC_ONOFF_L

C5902 0.1uF 20% 10V CERM 402

GENERATE 0.48V MID-VREF

=PP3V3_S0_FAN

R5930 6.2K 5% 1/16W MF-LF 402

P0V48_SMC_LSREF

R5931 1K 5% 1/16W MF-LF 402

SMC CRYSTAL

C5800 22PF CERM 5% 50V 402 — SMC_XTAL

C5801 22PF CERM 5% 50V 402 — SMC_EXTAL

Y5800 OMIT 20.000M SM-3

TPM CRYSTAL

LAYOUT NOTE: PLACE CAPACITORS BETWEEN CRYSTAL AND SMC/TPM

C6704 15PF 5% 50V CERM 402 — TPM_XTALI

C6705 15PF 5% 50V CERM 402 — TPM_XTALO

Y6700 32.768K CRITICAL SM-LF

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

CPU 1.05V -> SMC 3.3V SHIFTER

PP3V3_S5

=PP3V3_S0_FAN

C5903 0.1UF 20% 10V CERM 402

U5999 LM393A SOI-1-LF

P0V48_SMC_LSREF

CPU_PROCHOT_L

R5932 1K 5% 1/16W MF-LF 402 — SMC_PROCHOT_3_3_L

R5933 1K 5% 1/16W MF-LF 402 — SMC_CPU_RESET_3_3_L

R5934 1K 5% 1/16W MF-LF 402 — SMC_XDP_TCK_3_3

R5935 1K 5% 1/16W MF-LF 402 — SMC_XDP_TDO_3_3_L

PCB: ENSURE FSB_CPURST_L FANS OUT FROM U1200 AND MINIMIZE ROUTE LENGTH TO U5999.

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

SMC ALIASES, PULLUPS, AND TESTPOINTS

NO-CONNECT UNUSED PINS

SMC_P20	—	NC_SMC_P20
SMC_P21	—	NC_SMC_P21
SMC_P22	—	NC_SMC_P22
SMC_P23	—	NC_SMC_P23
SMC_P26	—	NC_SMC_P26
SMC_P27	—	NC_SMC_P27
SMC_BATT_ISET	—	NC_SMC_BATT_ISET
SMC_BATT_VSET	—	NC_SMC_BATT_VSET
SMC_SYS_ISET	—	NC_SMC_SYS_ISET
SMC_SYS_VSET	—	NC_SMC_SYS_VSET
SMC_BATT_TRICKLE_EN_L	—	NC_SMC_BATT_TRICKLE_EN_L
SMC_BATT_CHG_EN	—	NC_SMC_BATT_CHG_EN
SMC_ANALOG_ID	—	NC_SMC_ANALOG_ID
ALS_GAIN	—	NC_ALS_GAIN

DEBUG TESTPOINTS ON SELECTED INPUTS/OUTPUTS

SMC_SYS_KBDLED	—	TP_SMC_SYS_KBDLED	FUNC_TEST=TRUE
SMC_PF0	—	TP_SMC_PF0	
SMC_PM_G2_EN	—	TP_PM_G2_EN	FUNC_TEST=TRUE
SMC_ADAPTER_EN	—	TP_SMC_ADAPTER_EN	FUNC_TEST=TRUE
ALS_LEFT	—	TP_ALS_LEFT	FUNC_TEST=TRUE
ALS_RIGHT	—	TP_ALS_RIGHT	
SMC_PF1	—	TP_SMC_PF1	
SMC_PB7	—	TP_SMC_PB7	FUNC_TEST=TRUE
SMC_EXCARD_PWR_EN	—	TP_SMC_EXCARD_PWR_EN	FUNC_TEST=TRUE
SMC_PB7	—	TP_SMC_PB7	FUNC_TEST=TRUE
SMC_FAN_3_TACH	—	TP_SMC_FAN_3_TACH	FUNC_TEST=TRUE
SMC_FAN_3_CTL	—	TP_SMC_FAN_3_CTL	FUNC_TEST=TRUE

TPM RESET PULLUP

PP3V3_TPM_3VSB — R5827 10K — SMC_TPM_RESET_L

WIRE-OR DIMM OVERTEMP TO SMC

DIMM_OVERTEMP_L — PM_EXTTS_L<0>

SENSE GPU REGULATOR OUTPUT CURRENT

SMC_GPU_ISENSE — GPUVCORE_IOUT

WIRE SMC TO SB PINS

SMC_CPU_INIT_3_3_L	—	FWH_INIT_L
SMC_SUS_CLK	—	SUS_CLK_SB

NC OR PULLDOWN UNUSED ANALOG SENSE PINS

SMS_X_AXIS	—	NC_SMS_X_AXIS
SMS_Y_AXIS	—	NC_SMS_Y_AXIS
SMS_Z_AXIS	—	NC_SMS_Z_AXIS
SMC_NB_ISENSE	—	NC_SMC_NB_ISENSE
SMC_MEM_ISENSE	—	NC_SMC_MEM_ISENSE
SMC_BATT_ISENSE	—	UNUSED_SMC_SENSE
SMC_FWIRE_ISENSE	—	UNUSED_SMC_SENSE

UNUSED_SMC_SENSE — R5924 10K — PULLDOWN UNUSED ANALOG SENSE PINS ON PORT 7.

SC_RX_L — R5922 0 (DEVELOPMENT_SMC) — SMC_RX_L

SC_TX_L — R5923 0 (DEVELOPMENT_SMC) — SMC_TX_L

SELECT TPM GPIO

SMC_TPM_GPIO — R5920 0 — SMC_TPM_GPIO1 — TPM_GPIO1

SMC_TPM_GPIO — R5921 0 — SMC_TPM_GPIO2 — TPM_GPIO2

SMC_TPM_PP — R5995 0 — SMC_TPM_PP — TPM_PP

SMC PULL-UPS

=PP3V3_S5_SMC

SMC_ONOFF_L	R5808	10K
SMC_ODD_DETECT	R5829	10K
SMC_EXCARD_CP	R5830	10K
SMC_EXCARD_PWR_OC_L	R5831	10K
SC_RX_L	R5832 (NOT_DEVELOPMENT_SMC)	10K
SC_TX_L	R5833 (NOT_DEVELOPMENT_SMC)	10K
SMS_ONOFF_L	R5815	10K
SMC_TX_L	R5817	10K
SMC_RX_L	R5818	100K
SYS_ONEWIRE	R5819	10K
SMC_BS_ALRT_L	R5821	10K
SMC_TMS	R5822	10K
SMC_TDO	R5823	10K
SMC_TDI	R5824	10K
SMC_TCK	R5825	10K
SMC_BC_ACOK	R5826	10K
SMC_FWE	R5828	10K

SENSE GPU VCORE

PP1V0R1V2_S0_GPU — R5919 4.53K 1% 1/10W MF-LF 402 — SMC_GPU_VSENSE

C5919 0.22UF 20% 6.3V X5R 402 — GND_SMC_AVSS

PRECISION 3.3V AVREF FOR SMC

PP5V_S5

R5942 10K 5% 1/16W MF-LF 402 — Q5910 NTR4101P SOT-23 — SMC_REF_GATE2

SMC_REF_GATE1

R5941 10K 5% 1/16W MF-LF 402 — Q5911 2N7002 SOT23-LF

C5943 1UF 10% 6.3V CERM 402

SMC_REF_IN

U5940 REF3133 SOT23-3 — CRITICAL — IN, TI, OUT, GND

C5940 0.47UF 10% 6.3V CERM-X5R 402

C5942 10UF 20% 6.3V CERM 805-1

NOSTUFF R5940 0 5% 1/16W MF-LF 402

PP3V3_AVREF_SMC

C5941 0.01uF 20% 16V CERM 402

GND_SMC_AVSS

TURN ON 3.3V VREF ONLY AFTER SMC 3.3V RAIL AND AVCC RAIL IS UP.

SMC I2C BUS PULLUPS (INCLUDING UNUSED ONES)

PP3V3_S0

2.2K	R5903	SMB_B_S0_CLK
2.2K	R5904	SMB_B_S0_DATA

PP3V3_S3

2.2K	R5905	SMB_A_S3_CLK
2.2K	R5906	SMB_A_S3_DATA

=PP3V3_S5_SMC

10K	R5910	SMB_BSB_CLK
10K	R5911	SMB_BSB_DATA
10K	R5912	TP_SMC_SMB_0_CLK (FUNC_TEST=TRUE) / SMC_SMB_0_CLK
10K	R5913	SMC_SMB_0_DATA / TP_SMC_SMB_0_DATA (FUNC_TEST=TRUE)
10K	R5914	SMB_BSA_CLK
10K	R5915	SMB_BSA_DATA

PULLUPS FOR SYSTEM STATE PINS

10K — R5916 — SMC_LID

PULLDOWNS FOR SYSTEM STATE PINS

10K — R5917 — SMC_CASE_OPEN

ALIAS SENSORS INTO SMC I2C BUSSES

SMB_B_S0_CLK		=I2C_HD_TEMP_SCL	
SMB_B_S0_DATA		=I2C_HD_TEMP_SDA	
		=I2C_ODD_TEMP_SCL	
		=I2C_ODD_TEMP_SDA	
		=SMB_THRM_CLK	
		=SMB_THRM_DATA	
		SMB_GPU_NB_THRM_CLK	
		SMB_GPU_NB_THRM_DATA	
SMB_A_S3_CLK		I2C_ALS_SCL	
SMB_A_S3_DATA		I2C_ALS_SDA	

TIE ANALOG SENSOR OPAMP GROUNDS TO SMC GROUND

PCB: RUN A TRACE FROM EACH ANALOG OPAMP PSEUDO-DIFFERENTIALLY NEXT TO THIS GND TRACE AND TIE INTO DIGITAL GND VERY CLOSE TO SMC'S XW5800. PLACE XW5900 NEAR XW5800.

XW5900 SM — GND_NEXT_TO_SMC

SMC & TPM SUPPORT

NOTICE OF PROPRIETARY PROPERTY

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I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

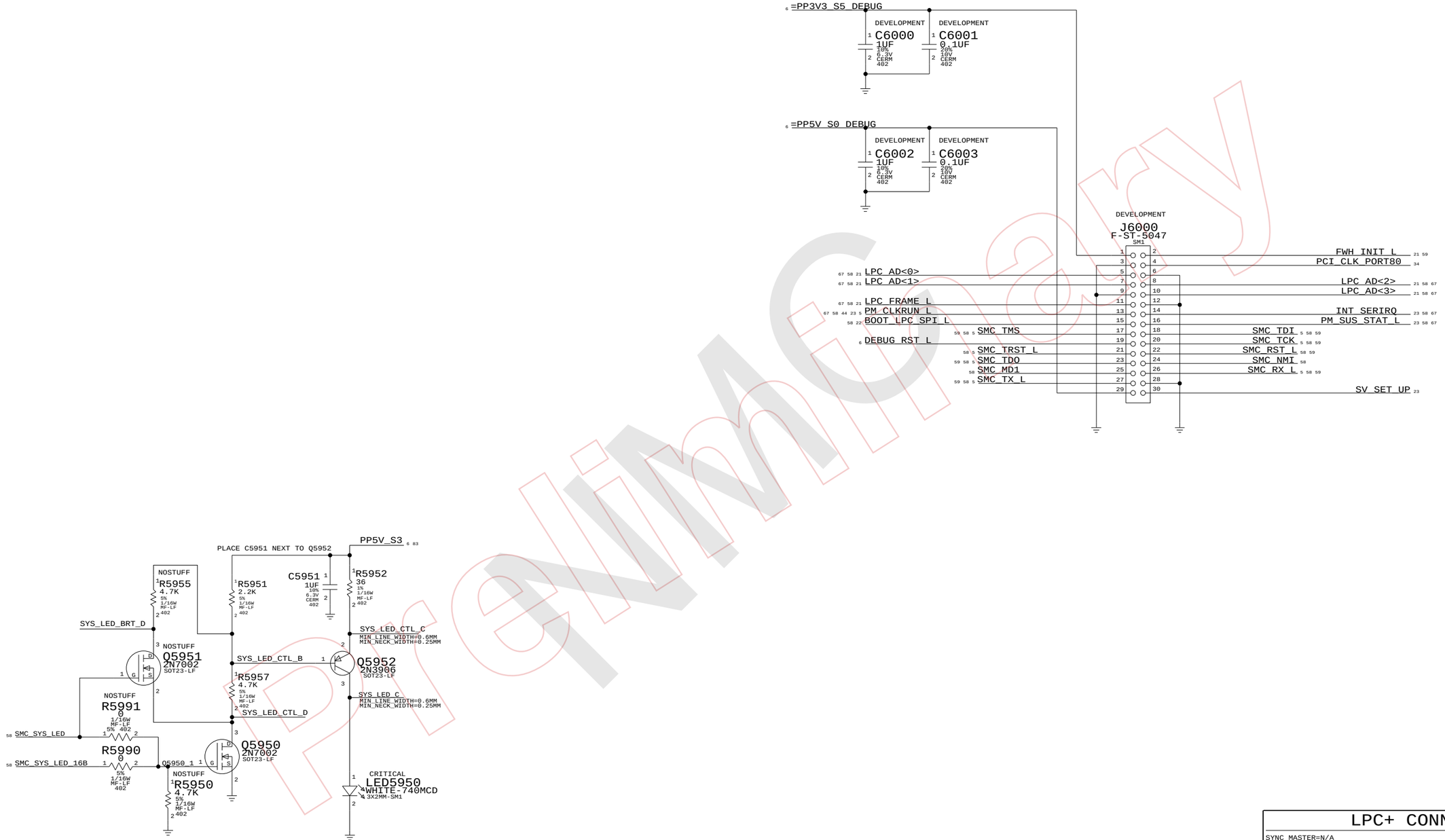
II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE: NONE — SHT 59 OF 110



LPC+ CONN

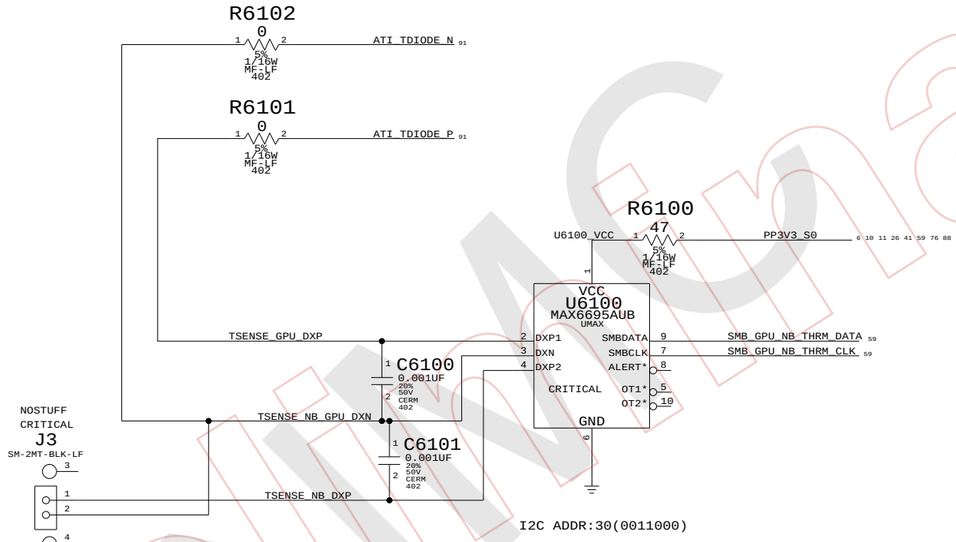
SYNC_MASTER=N/A SYNC_DATE=N/A

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE: NONE

SHT 60 OF 110



GPU+NB THERMAL

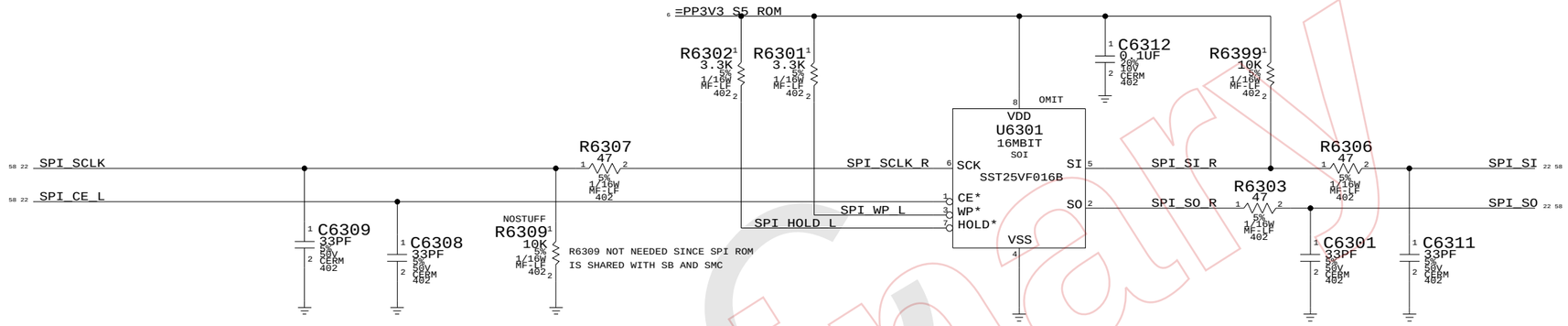
SYNC_MASTER=N/A SYNC_DATE=N/A

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE NONE

SHT 61 OF 110



R6306-07 SHOULD BE PLACED LESS THAN 2.54MM FROM U2100

R6303 SHOULD BE PLACED LESS THAN 2.54MM FROM U6301

SPI BOOTROM

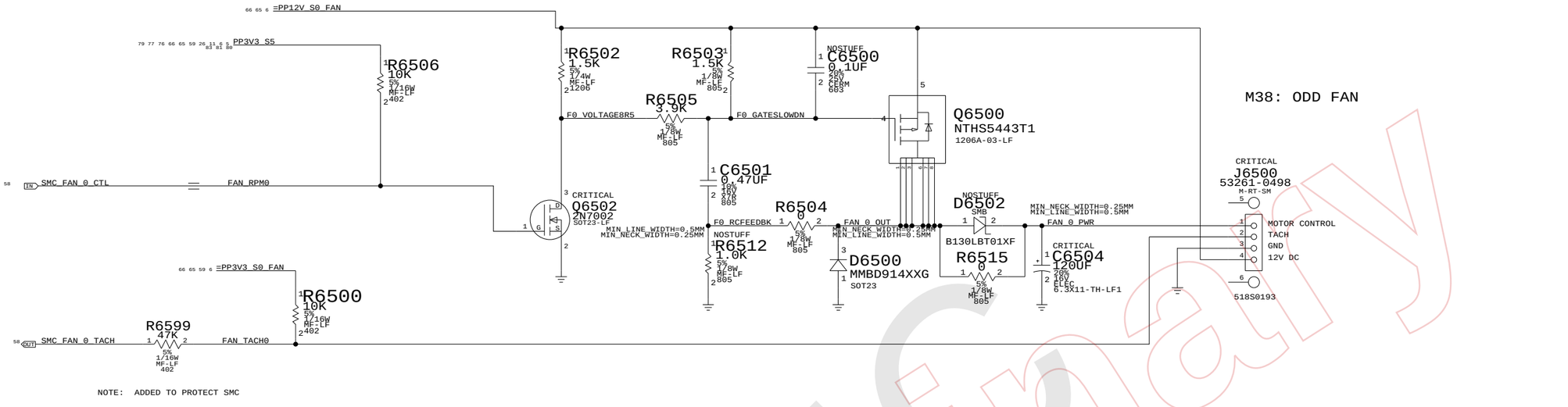
SYNC_MASTER=MASTER SYNC_DATE=5/23/05

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

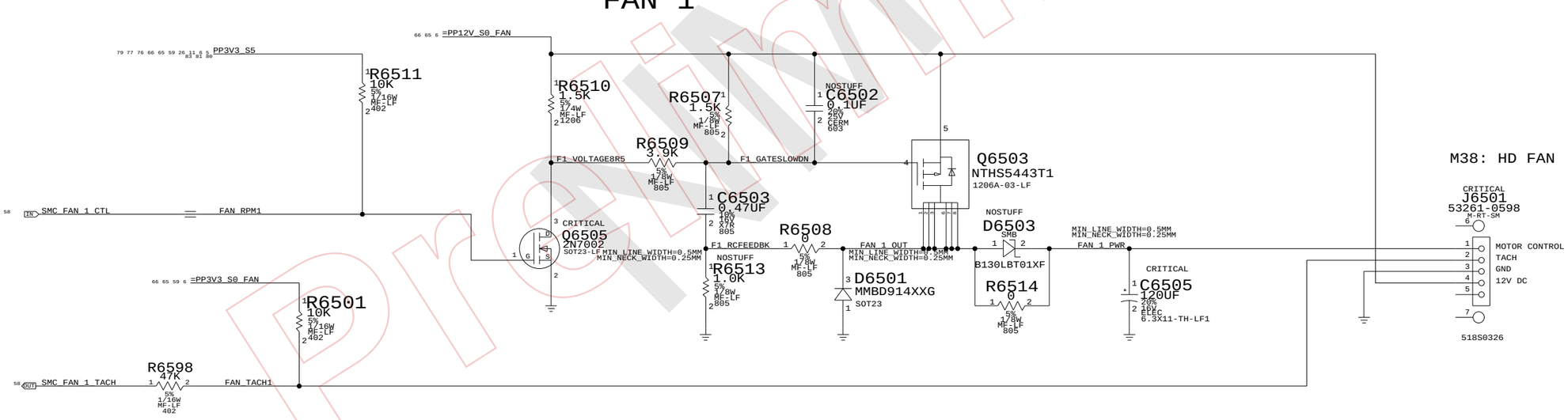
SCALE: NONE SHT 63 OF 110

FAN 0



NOTE: ADDED TO PROTECT SMC

FAN 1

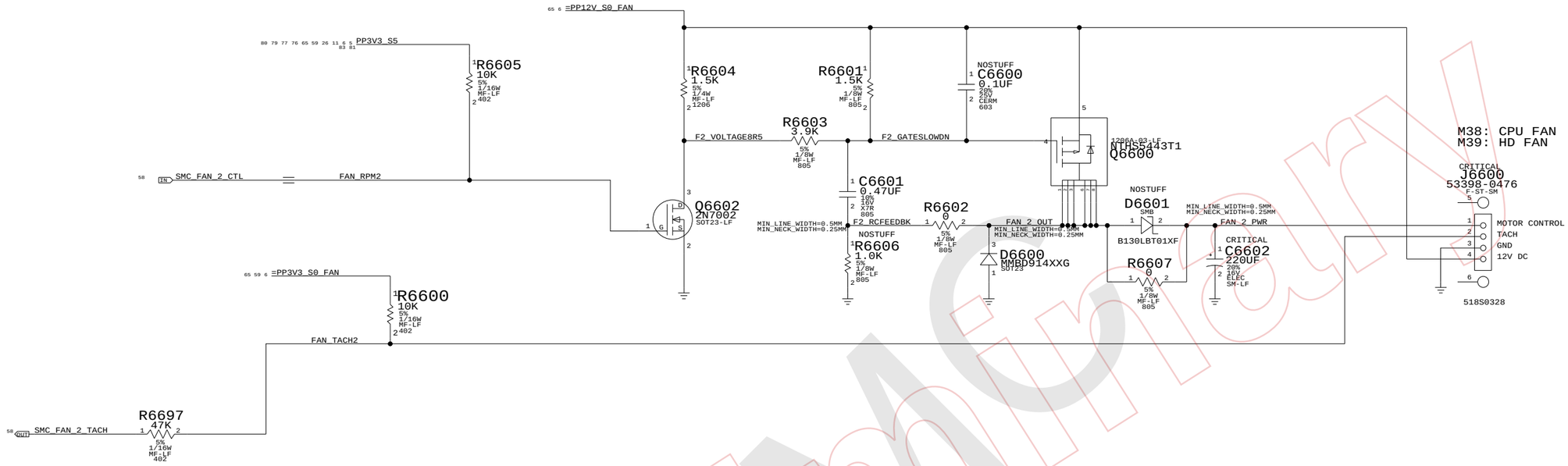


Fan 0, 1 & System Temp

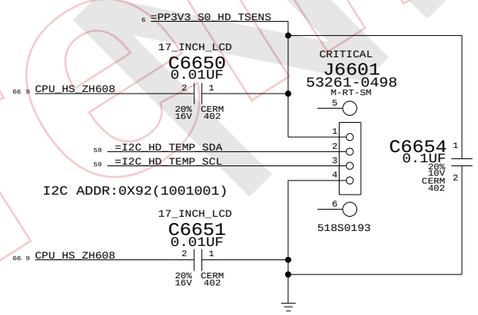
APPLE COMPUTER INC.

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

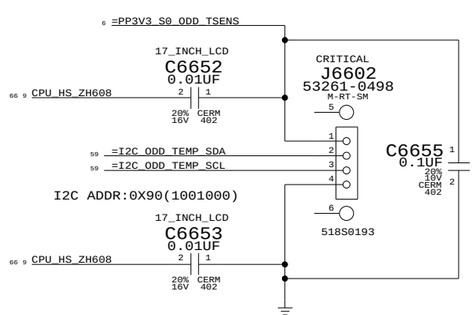
FAN 2



HD TEMP SENSOR



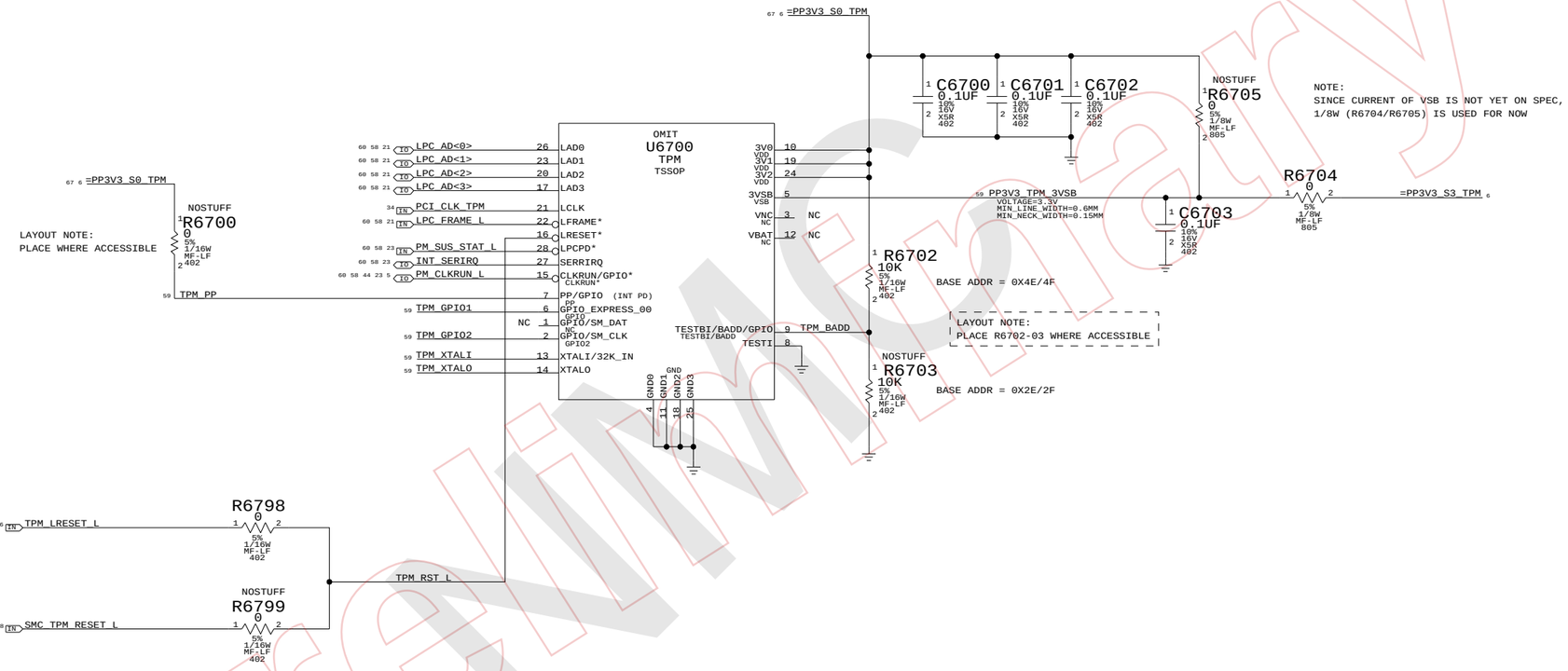
ODD TEMP SENSOR



Fan 2 & HD Temp

APPLE COMPUTER INC.

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



TPM

SYNC_MASTER=N/A SYNC_DATE=N/A

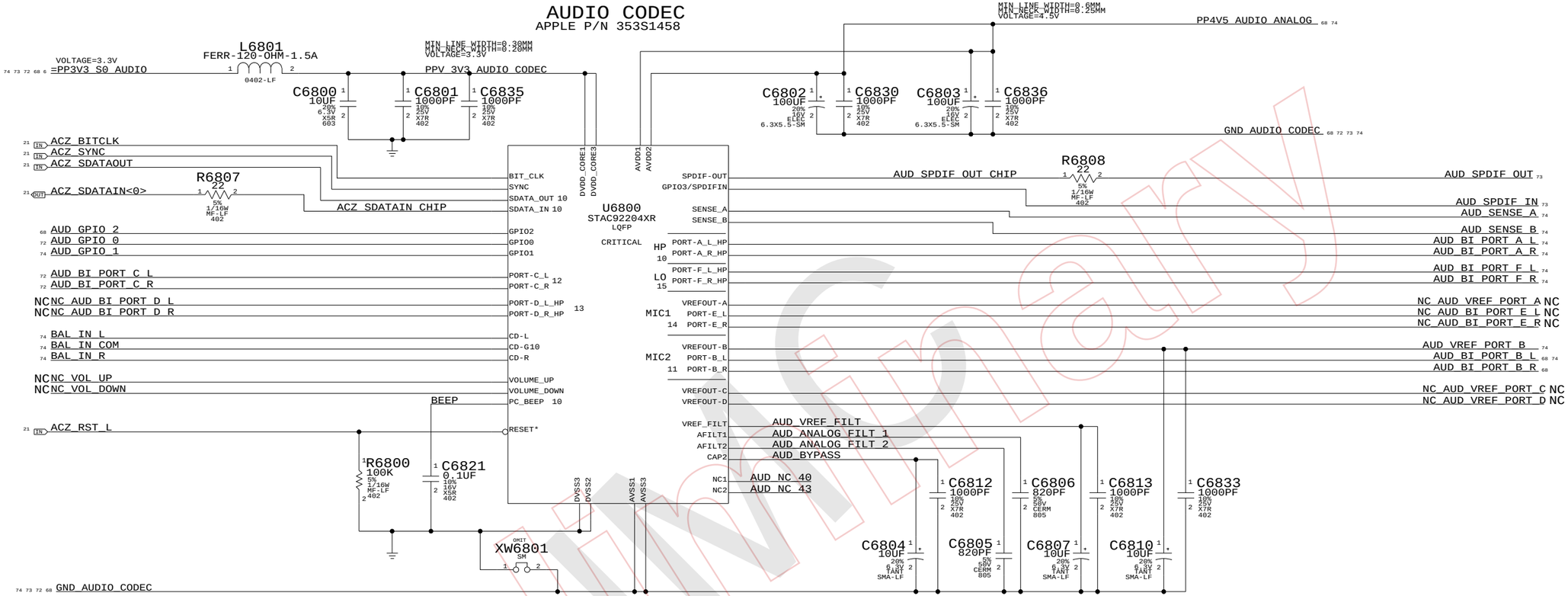
APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE: NONE

SHT 67 OF 110

AUDIO CODEC
APPLE P/N 353S1458



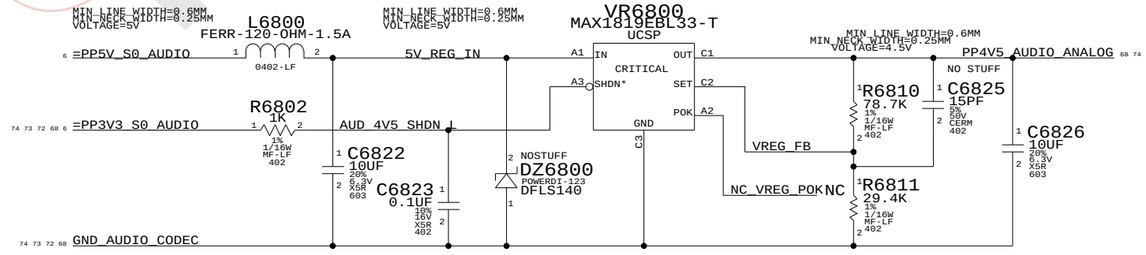
AUD_BI_PORT_B_L = AUD_BI_PORT_B_R

MIC INPUT TO BOTH L&R

AUD_GPIO_2

R6815 10K 5% 1/16W MF-LF 402

4.5V POWER SUPPLY FOR CODEC
APN: 353S1455



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-SO SYNC_DATE=04/28/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT 68 OF 110	

SPEAKER AMP

APPLE P/N 353S0680

=PP12V_S0_AUDIO_SPKRAMP — NET SPACING TYPE=AUDIO, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.25MM, VOLTAGE=12V

L7200 FERR-250-OHM (SM-1) — PP12V_AUD_SPKRAMP_PLANE — NET SPACING TYPE=AUDIO, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.25MM, VOLTAGE=12V

C7217 220UF 20% 16V ELEC 6.3X8-SM
C7200 220UF 20% 16V ELEC 6.3X8-SM
C7201 10UF 10% 16V CERM 1210
C7218 0.1UF 20% 16V CERM 603
C7202 1UF 10% 16V CERM 805
C7219 0.1UF 20% 16V CERM 603
C7203 10UF 10% 16V CERM 1210
C7223 10UF 10% 16V CERM 1210

GND_AUDIO_SPKRAMP_PLANE

=PP3V3_S0_AUDIO

GND_AUDIO_CODEC

AUD_BI_PORT_C_L — L7205 1K-OHM-100MA 0603 — AUDSAMPINLN — C7204 0.47UF 10% 16V X7R 805 — C7215 100PF 5% 50V CERM 402

AUD_BI_PORT_C_R — L7208 1K-OHM-100MA 0603 — AUDSAMPINRN — C7207 0.47UF 10% 16V X7R 805 — C7216 100PF 5% 50V CERM 402

L7206 1K-OHM-100MA 0603 — AUDSAMPINLP — C7205 0.47UF 10% 16V X7R 805

L7207 1K-OHM-100MA 0603 — AUDSAMPINRP — C7206 0.47UF 10% 16V X7R 805

R7214 10K 1% 1/10W MF-LF 402

U7200 MAX9714 QFN-LF

AUD_SAMP_INL_N	9	INL-	
AUD_SAMP_INL_P	10	INL+	
AUD_SAMP_INR_P	16	INR+	
AUD_SAMP_INR_N	15	INR-	
AUD_SAMP_G1	17	G1	
AUD_SAMP_G2	18	G2	
AUD_SAMP_FS1	19	FS1	
AUD_SAMP_FS2	20	FS2	
AUD_SAMP_SHDN_L	11	SHDN*	
NC	8	NC	
AUD_MAX9714_VREG	14	REG	
	3,4	VDD	
	21,22	CHOLD	7
		OUTL+	31, 32
		OUTL-	29, 30
		C1+	6
		C1-	5
		OUTR+	27, 28
		OUTR-	25, 26
		SS	12
	13	THM	
	33	AGND PAD	
	1,2,23,24	PGND	

MIN_LINE_WIDTH=0.2MM, MIN_NECK_WIDTH=0.15MM — AUD_MAX9714_CHOLD

NET SPACING TYPE=AUDIO, MIN_LINE_WIDTH=0.5MM, MIN_NECK_WIDTH=0.3MM
AUDSAMPOUTLP — L7201 180-OHM-1.5A 0603-LF — AUD_SPKR_OUTL_P
AUDSAMPOUTLN — L7202 180-OHM-1.5A 0603-LF — AUD_SPKR_OUTL_N
AUDSAMPOUTRP — L7203 180-OHM-1.5A 0603-LF — AUD_SPKR_OUTR_P
AUDSAMPOUTRN — L7204 180-OHM-1.5A 0603-LF — AUD_SPKR_OUTR_N

MIN_LINE_WIDTH=0.2MM, MIN_NECK_WIDTH=0.15MM
AUDSAMPCPP
AUDSAMPCPN — C7208 0.1UF 10% 50V X7R 603-1

C7210 1000PF 10% 25V X7R 402
C7211 1000PF 10% 25V X7R 402
C7212 1000PF 10% 25V X7R 402
C7213 1000PF 10% 25V X7R 402

R7215 10K 5% 1/10W MF-LF 402 — PP3V3_INTERCON

R7213 100 1% 1/10W MF-LF 402 — AUD_GPIO_0 — AUD_DEBOUNCE

R7212 10K 5% 1/10W MF-LF 402

C7221 100PF 5% 50V CERM 402

Q7200 2N7002DW-X-F SOT-363 (x2)

NOSTUFF R7216 0 5% 1/16W MF-LF 402 — SPKRAMP_MUTE

R7217 0 5% 1/16W MF-LF 402 — SPKRAMP_SS

C7214 1UF 10% 25V X5R 603

C7209 0.47UF 10% 16V X7R 805

XC7200 50MIL28

XW7201 SM 0MIL — NET SPACING TYPE=AUDIO, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.25MM — GND_AUDIO_SPKRAMP

NOSTUFF R7219 0 5% 1/10W MF-LF 402

GND_AUDIO_SPKRAMP_PLANE

GAIN SETTINGS: +19DB
MODULATION SETTING: LOW EMI
GAIN AND SWITCHING FREQUENCY STUFF OPTIONS

=PP3V3_S0_AUDIO

RP7200 47K 5% 1/16W SM-LF (8 7 6 5 / 1 2 3 4)

AUD_SAMP_FS2
AUD_SAMP_FS1
AUD_SAMP_G2
AUD_SAMP_G1

NOSTUFF R7218 0 5% 1/16W MF-LF 402
R7208 0 5% 1/16W MF-LF 402

GND_AUDIO_SPKRAMP_PLANE

AUDIO: SPEAKER AMP

SYNC_MASTER=FINO-SO SYNC_DATE=04/28/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT 72 OF 110	

COMBO IN JACK
APPLE P/N 514-0341

CRITICAL
J7300
OPTI-AUD-JCK
WO-RIB-M50
F-5.5-DEG-TH

L7302 180-OHM-1.5A 0603-LF
MIN_LINE_WIDTH=0.3MM MIN_NECK_WIDTH=0.2MM AUD_LI_R_JACK
MIN_LINE_WIDTH=0.3MM MIN_NECK_WIDTH=0.2MM AUD_LI_R_EMI

L7306 180-OHM-1.5A 0603-LF
MIN_LINE_WIDTH=0.3MM MIN_NECK_WIDTH=0.2MM AUD_LI_R 74

L7300 180-OHM-1.5A 0603-LF
MIN_LINE_WIDTH=0.3MM MIN_NECK_WIDTH=0.2MM AUD_LI_L_JACK
MIN_LINE_WIDTH=0.3MM MIN_NECK_WIDTH=0.2MM AUD_LI_L_EMI

L7304 180-OHM-1.5A 0603-LF
MIN_LINE_WIDTH=0.3MM MIN_NECK_WIDTH=0.2MM AUD_LI_L 74

L7301 180-OHM-1.5A 0603-LF
MIN_LINE_WIDTH=0.3MM MIN_NECK_WIDTH=0.2MM AUD_LI_DET_JACK
MIN_LINE_WIDTH=0.3MM MIN_NECK_WIDTH=0.2MM AUD_LI_DET_EMI

L7305 180-OHM-1.5A 0603-LF
MIN_LINE_WIDTH=0.3MM MIN_NECK_WIDTH=0.2MM AUD_LI_DET_H 74

L7303 180-OHM-1.5A 0603-LF
MIN_LINE_WIDTH=0.5MM MIN_NECK_WIDTH=0.3MM AUD_LI_GND_JACK
MIN_LINE_WIDTH=0.5MM MIN_NECK_WIDTH=0.3MM AUD_LI_GND_EMI

L7307 180-OHM-1.5A 0603-LF
MIN_LINE_WIDTH=0.5MM MIN_NECK_WIDTH=0.3MM GND_AUDIO_CODEC 68 72 73 74

73 PP3V3_AUDIO_SPDIF_JACK

VCC
LED GND
VOUT

AUD_SPDIFIN_JACK

R7306 39 5% 1/16W MF-LF 402
AUD_SPDIF_IN 68

SHELL

C7326 1UF 10% 6.3V CERM 402

AUD_SPDIF_GND_IN

R7305 0 5% 1/16W MF-LF 402

DZ7302 8V-100PF 402
DZ7300 8V-100PF 402
DZ7324 8V-100PF 402
DZ7301 8V-100PF 402

74 73 GND_CHASSIS_AUDIO_EXTERNAL_J

XW7307 SM
6 GND_CHASSIS_AUDIO_EXTERNAL
GND_CHASSIS_AUDIO_EXTERNAL_J 73 74

SPEAKER CABLE CONNECTOR
APPLE P/N 518S0325

PROPERTIES FOR ALL SPKR NETS (OTHERS HIDDEN)
MIN_LINE_WIDTH=0.5MM
NET_SPACING_TYPE=AUDIO
MIN_NECK_WIDTH=0.2MM

J7301
53261-0798
M-RT-SM

72 AUD_SPKR_OUTR_N
72 AUD_SPKR_OUTR_P
72 AUD_SPKR_OUTL_N
72 AUD_SPKR_OUTL_P

XW7300 SM

L7309 180-OHM-1.5A 0603-LF
NET_SPACING_TYPE=AUDIO
74 AUD_MIC_IN_P
NET_SPACING_TYPE=AUDIO AUD_MIC_IN_P_EMI
GND_AUDIO_MIC_CONN
47 AUD_MIC_IN_P_CONN
47 AUD_MIC_IN_N_CONN

L7312 180-OHM-1.5A 0603-LF

TO FHB CONNECTOR PAGE 47

L7310 180-OHM-1.5A 0603-LF
NET_SPACING_TYPE=AUDIO
74 AUD_MIC_IN_N
NET_SPACING_TYPE=AUDIO AUD_MIC_IN_N_EMI

L7313 180-OHM-1.5A 0603-LF

NET_SPACING_TYPE=AUDIO
NET_SPACING_TYPE=AUDIO
NET_SPACING_TYPE=AUDIO

DZ7325 8V-100PF 402
DZ7326 8V-100PF 402

TO POWER SUPPLY PAGE 6
6 GND_CHASSIS_AUDIO_INTERNAL

68 AUD_SPDIF_OUT

R7308 100K 5% 1/10W MF-LF 402

L7315 180-OHM-1.5A 0603-LF
74 72 68 6 =PP3V3_S0_AUDIO
MIN_LINE_WIDTH=0.3MM MIN_NECK_WIDTH=0.2MM PP3V3_AUDIO_SPDIF_EMI

L7323 180-OHM-1.5A 0603-LF
MIN_LINE_WIDTH=0.3MM MIN_NECK_WIDTH=0.2MM
73 PP3V3_AUDIO_SPDIF_JACK

C7317 1UF 10% 6.3V CERM 402
C7318 10UF 20% 6.3V CERM 805-1

L7316 180-OHM-1.5A 0603-LF
74 AUD_LO_TYPE
AUD_LO_TYPE_EMI

L7324 180-OHM-1.5A 0603-LF

CRITICAL
J7303
OPTI-AUD-OUT-JCK-M50
F-ANG-TH

AUD_LO_TYPE_JACK TYPE_DET
AUD_LO_L_JACK TIP
AUD_LO_TIP_JACK TIP_DET
AUD_LO_R_JACK RING
GND_1
AUD_LO_GND_JACK GND_2
VIN
VCC
GND
LED

L7318 180-OHM-1.5A 0603-LF
MIN_LINE_WIDTH=0.3MM MIN_NECK_WIDTH=0.2MM
74 AUD_LO_L
MIN_LINE_WIDTH=0.3MM MIN_NECK_WIDTH=0.2MM AUD_LO_L_EMI

L7326 180-OHM-1.5A 0603-LF
MIN_LINE_WIDTH=0.3MM MIN_NECK_WIDTH=0.2MM

L7319 180-OHM-1.5A 0603-LF
74 AUD_LO_TIP
AUD_LO_TIP_EMI

L7327 180-OHM-1.5A 0603-LF
MIN_LINE_WIDTH=0.3MM MIN_NECK_WIDTH=0.2MM

L7317 180-OHM-1.5A 0603-LF
MIN_LINE_WIDTH=0.3MM MIN_NECK_WIDTH=0.2MM
74 AUD_LO_R
MIN_LINE_WIDTH=0.3MM MIN_NECK_WIDTH=0.2MM AUD_LO_R_EMI

L7325 180-OHM-1.5A 0603-LF

MIN_LINE_WIDTH=0.25MM MIN_NECK_WIDTH=0.2MM
AUD_SPDIF_GND_OUT

R7302 0 5% 1/10W MF-LF 402

L7880 180-OHM-1.5A 0603-LF
74 73 72 68 GND_AUDIO_CODEC
GND_AUDIO_CODEC_EMI1

L7381 180-OHM-1.5A 0603-LF

DZ7380 8V-100PF 402
DZ7314 8V-100PF 402
DZ7315 8V-100PF 402
DZ7311 8V-100PF 402
DZ7313 8V-100PF 402
DZ7323 8V-100PF 402

74 73 GND_CHASSIS_AUDIO_EXTERNAL_J

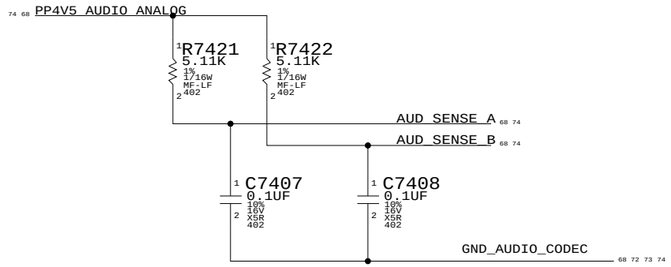
LINE OUT JACK
APPLE P/N 514-0338

AUDIO: CONNECTORS

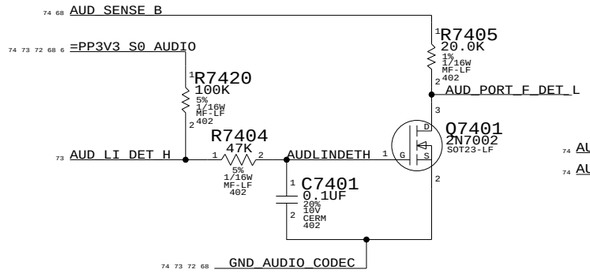
SYNC_MASTER=AUDIO SYNC_DATE=01/10/2006

APPLE COMPUTER INC.
SIZE D
DRAWING NUMBER 051-7148
REV. 13
SCALE NONE
SHT 73 OF 110

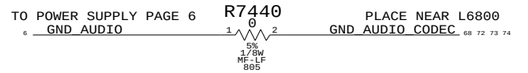
JACK SENSE PULL UPS(PLACE NEXT TO CODEC)



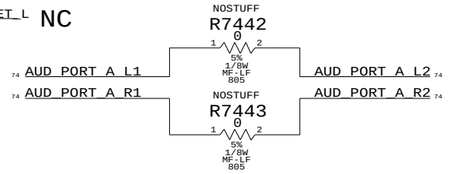
PORT F (LI) PLUG DETECT

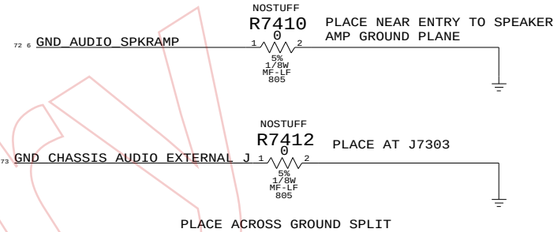


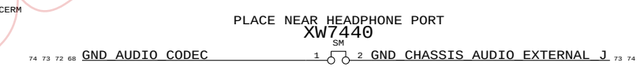
AUDIO GROUND RETURNS



NC

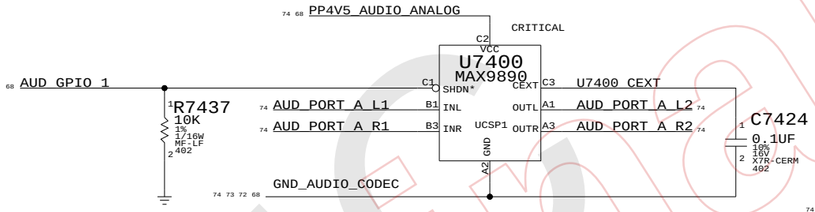




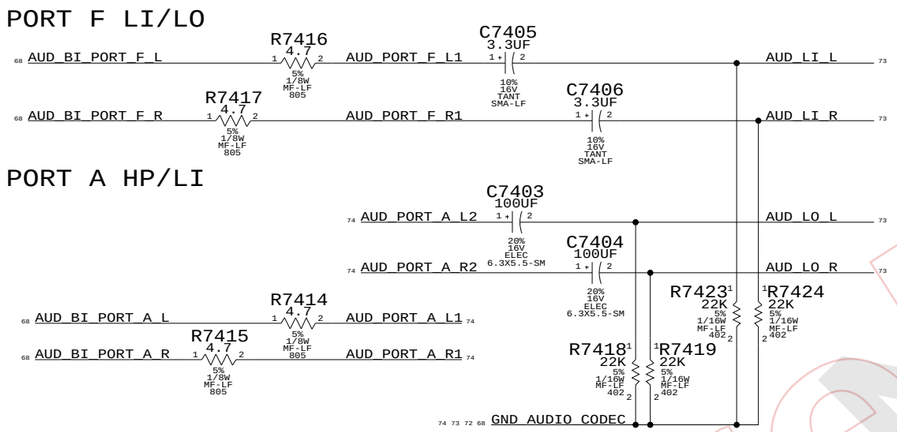


USED PORTS
PORT A HP/LI
PORT B MIC IN, VREF 80%
PORT C BI SPEAKERS
PORT F LI/LO

UNUSED PORTS
PORT E SPDIF OUT DELEGATE
PORT D

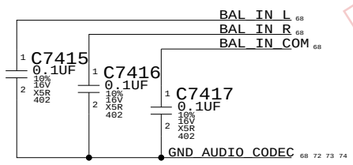


PORT F LI/LO

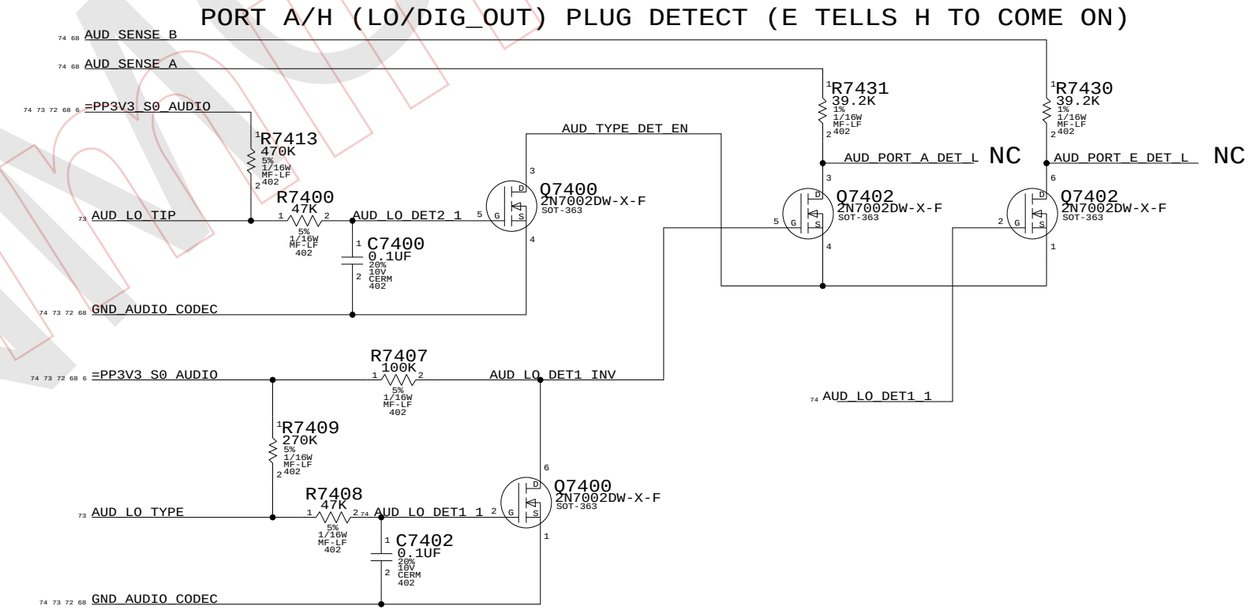


PORT A HP/LI

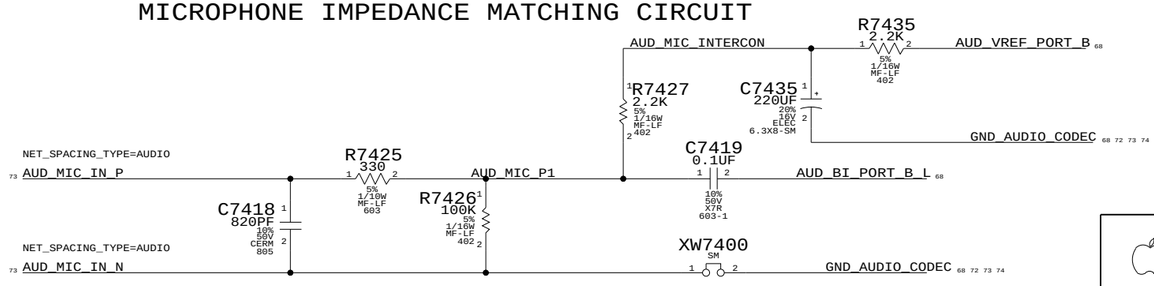
UNUSED PORT TERMINATION



PORT A/H (LO/DIG_OUT) PLUG DETECT (E TELLS H TO COME ON)



MICROPHONE IMPEDANCE MATCHING CIRCUIT



AUDIO: POWER SUPPLIES

SYNC_MASTER=AUDIO SYNC_DATE=02/23/2006

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT 74 OF 110	

IMVP6 CPU VCORE REGULATOR

DPRSLPVR	DPRSTP*	PSI*	Operation Mode
0	1	1	2-Phase CCM
0	1	0	1-Phase CCM
1	0	1	1-Phase DCM
1	0	0	1-Phase DCM

Note 1: C7532,C7533 = 27.4 Ohm For Validating CPU Only.

*NEED TO CHANGE R7531 TO NTC ERT-J1VR103J PANASONIC

	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

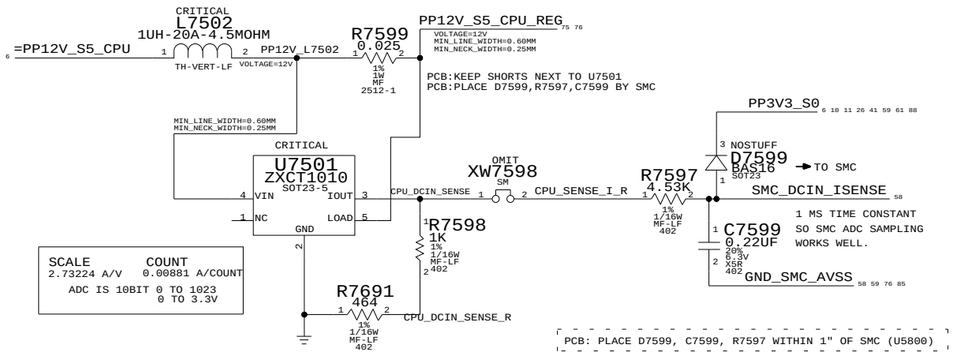
	MIN_LINE_WIDTH	MIN_NECK_WIDTH
IMVP6_OCSET	0.25 MM	0.20 MM
IMVP6_VSUM	0.25 MM	0.20 MM
GND_IMVP6_SGND	0.50 MM	0.20 MM
IMVP6_VO	0.25 MM	0.20 MM
IMVP6_DROOP	0.25 MM	0.20 MM
IMVP6_DFB	0.25 MM	0.20 MM
IMVP6_SOFT	0.25 MM	0.20 MM
IMVP6_RBIAS	0.25 MM	0.20 MM
IMVP6_VDIFF	0.25 MM	0.20 MM
IMVP6_FB2	0.25 MM	0.20 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_RTN	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

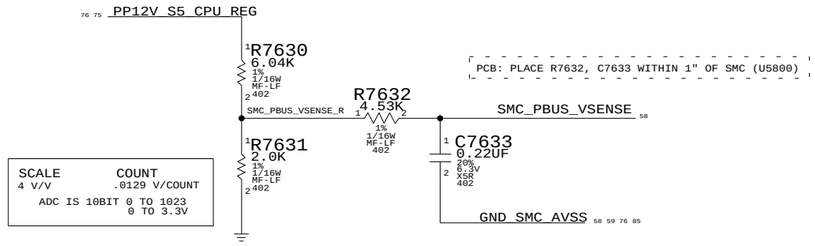
APPLE COMPUTER INC.

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

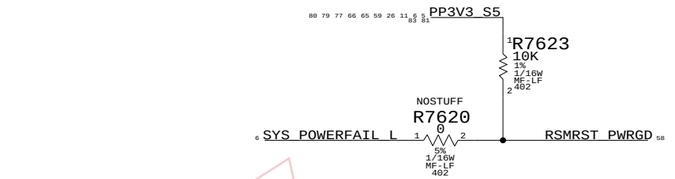
PROCESSOR VCORE CURRENT SENSE
(USING 12V INPUT CURRENT TO DERIVE CPU CURRENT)



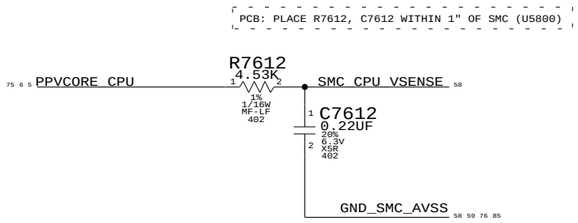
PROCESSOR DCIN VOLTAGE SENSE
(SCALING 12V INPUT VOLTAGE TO SMC)



SMC PWRGD PULLUP

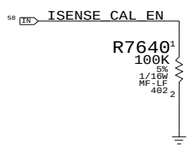


PROCESSOR VCORE SENSE



Current Sense Calibration Circuit

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



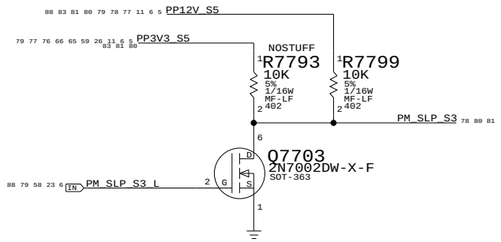
CPU SENSE CIRCUITRIES

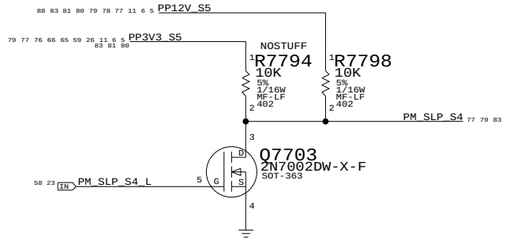
SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

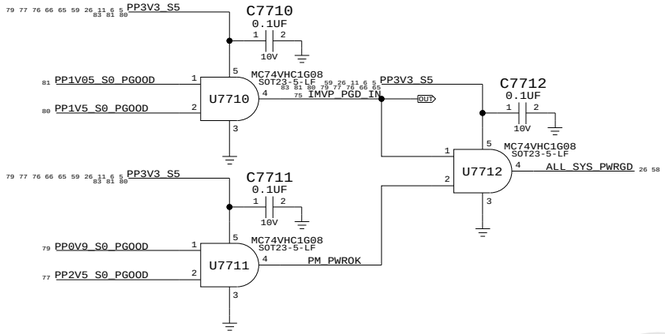
APPLE COMPUTER INC.

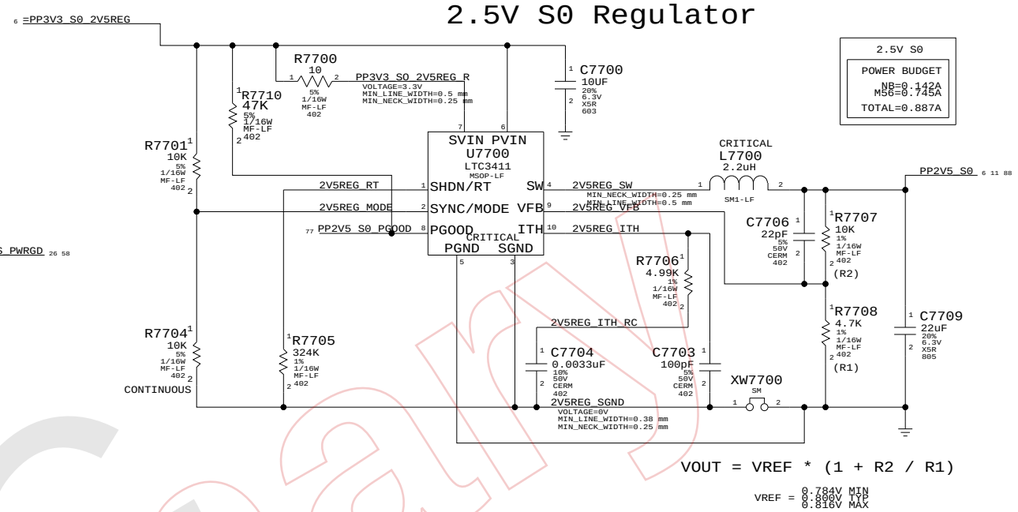
SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE: NONE SHT 76 OF 110

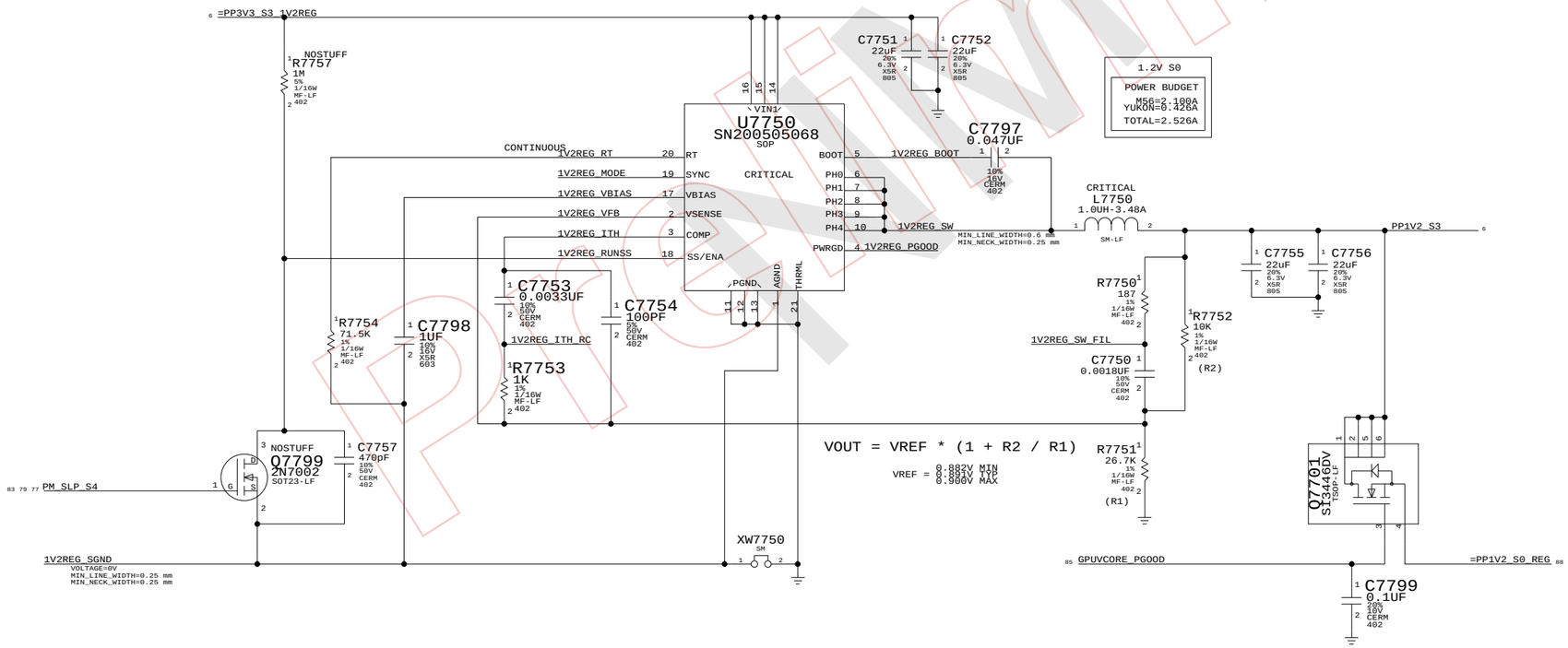








1.2V S3 REGULATOR / 1.2V S0 FET

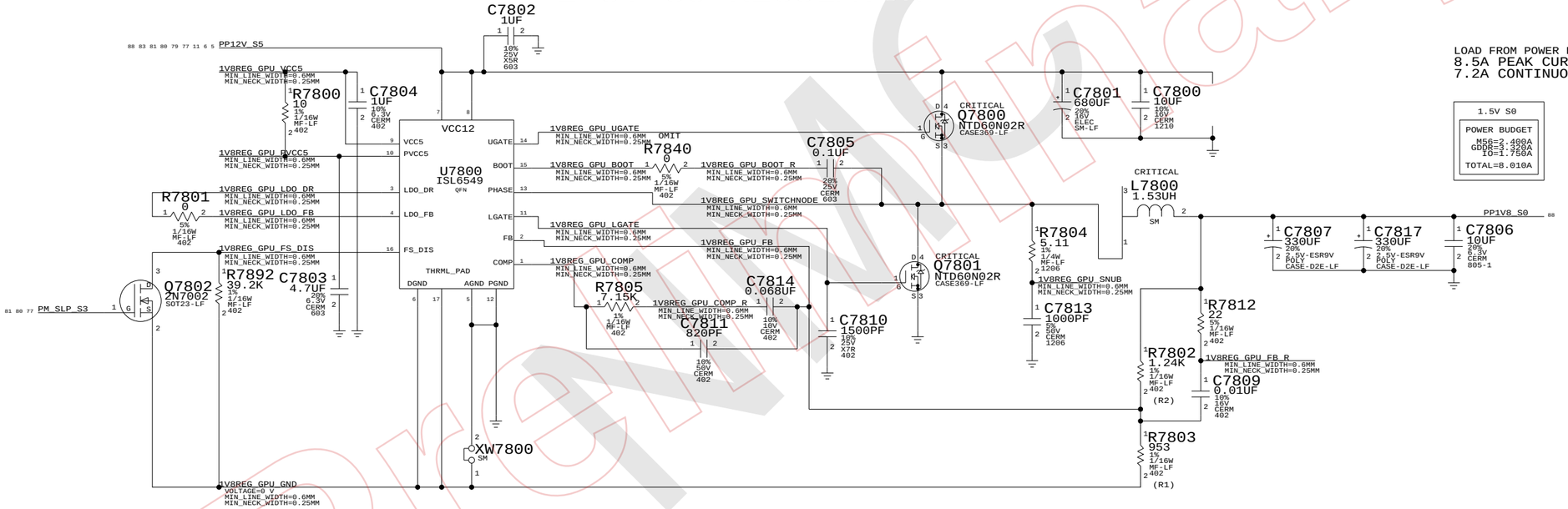


APPLE COMPUTER INC.

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

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
114S0514	1	5.11 OHM 0402 1% 1/16W LF	R7840		

1.8V S0 REGULATOR



LOAD FROM POWER BUDGET
8.5A PEAK CURRENT DRAW
7.2A CONTINUOUS CURRENT DRAW

1.5V S0

POWER BUDGET
M56=2.400A
GDDR=3.730A
IO=1.750A
TOTAL=8.010A

VOUT=VREF*(1+R2/R1)

VREF = 0.784V MIN
0.800V TYP
0.816V MAX

1.8V GDDR REGULATOR

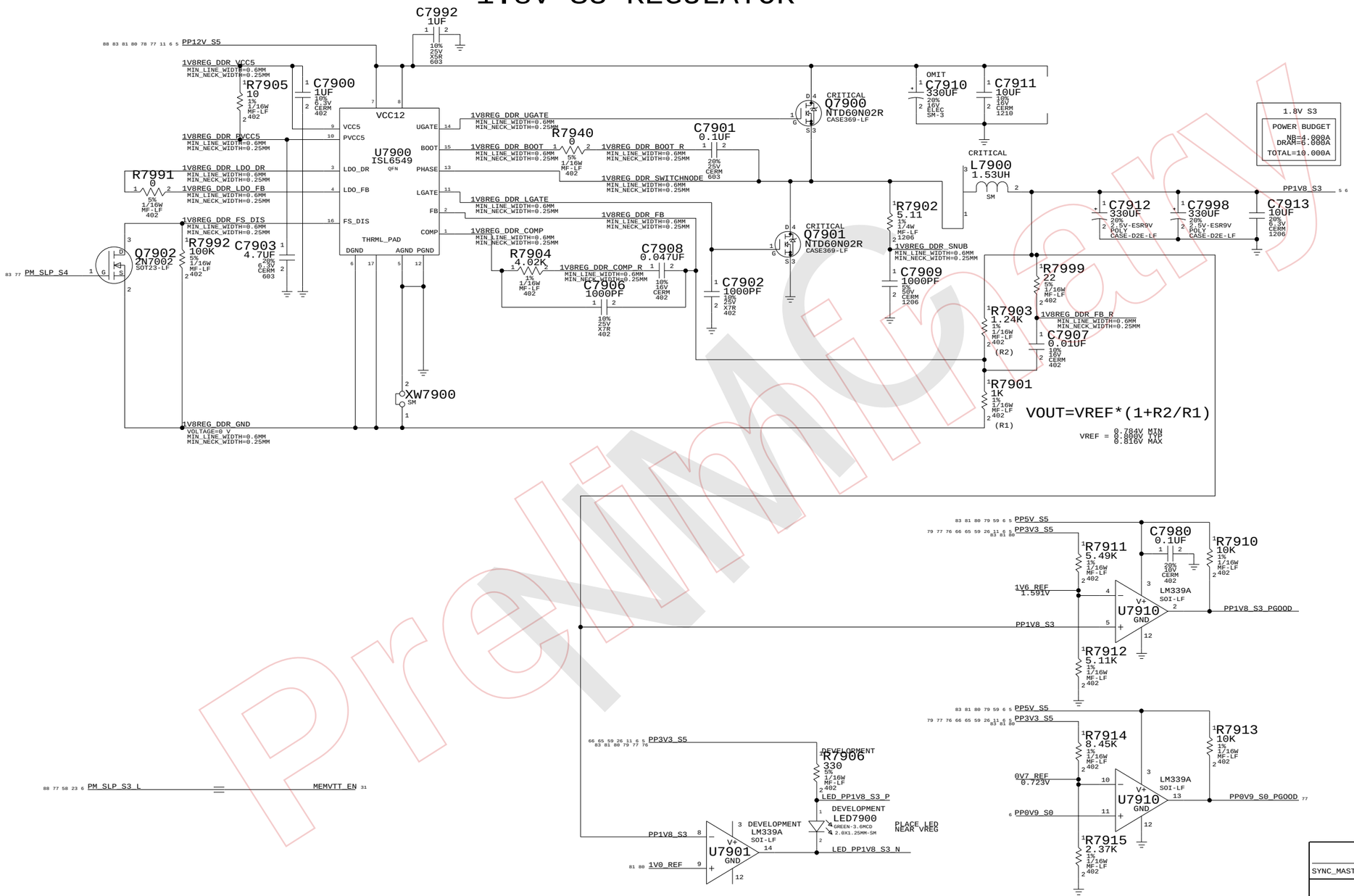
SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT 78 OF 110	

TRUE

1.8V S3 REGULATOR



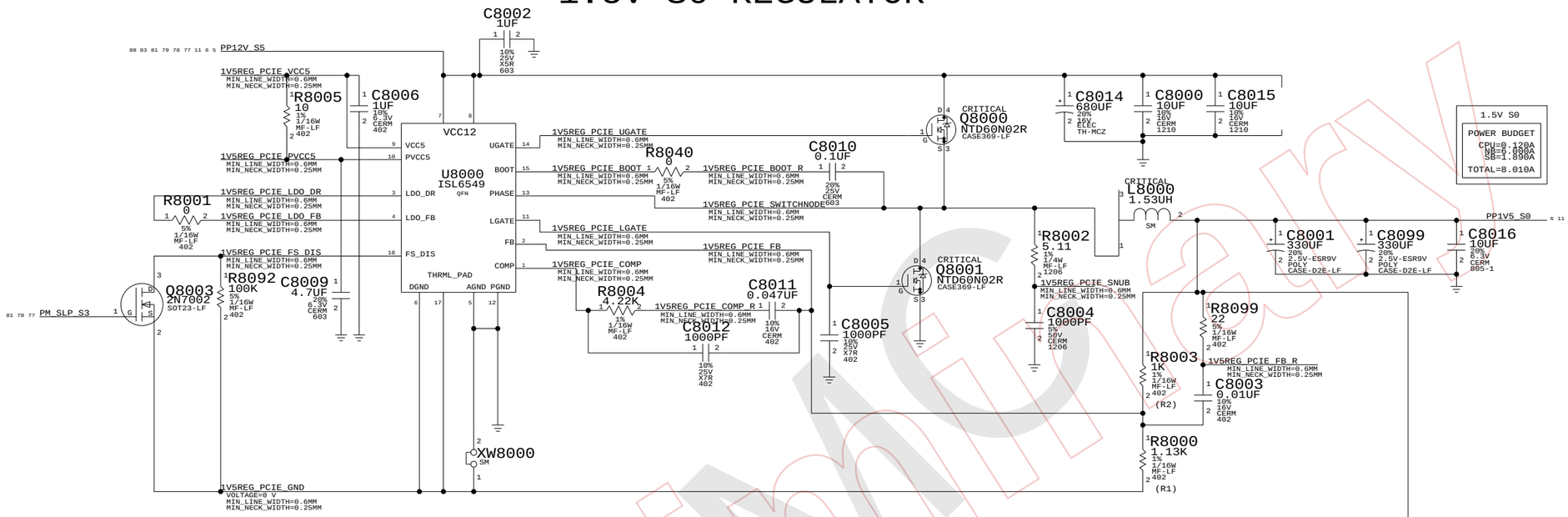
1.8V Vreg

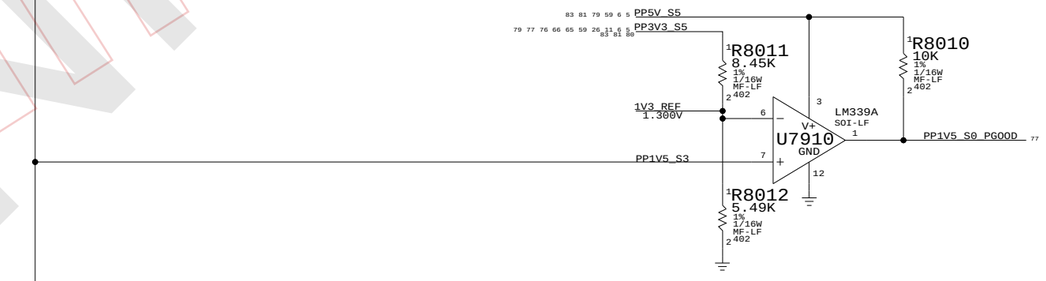
SYNC_MASTER=M23-PC SYNC_DATE=04/12/2005

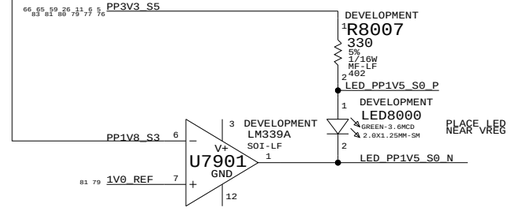
APPLE COMPUTER INC.

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

1.5V S0 REGULATOR

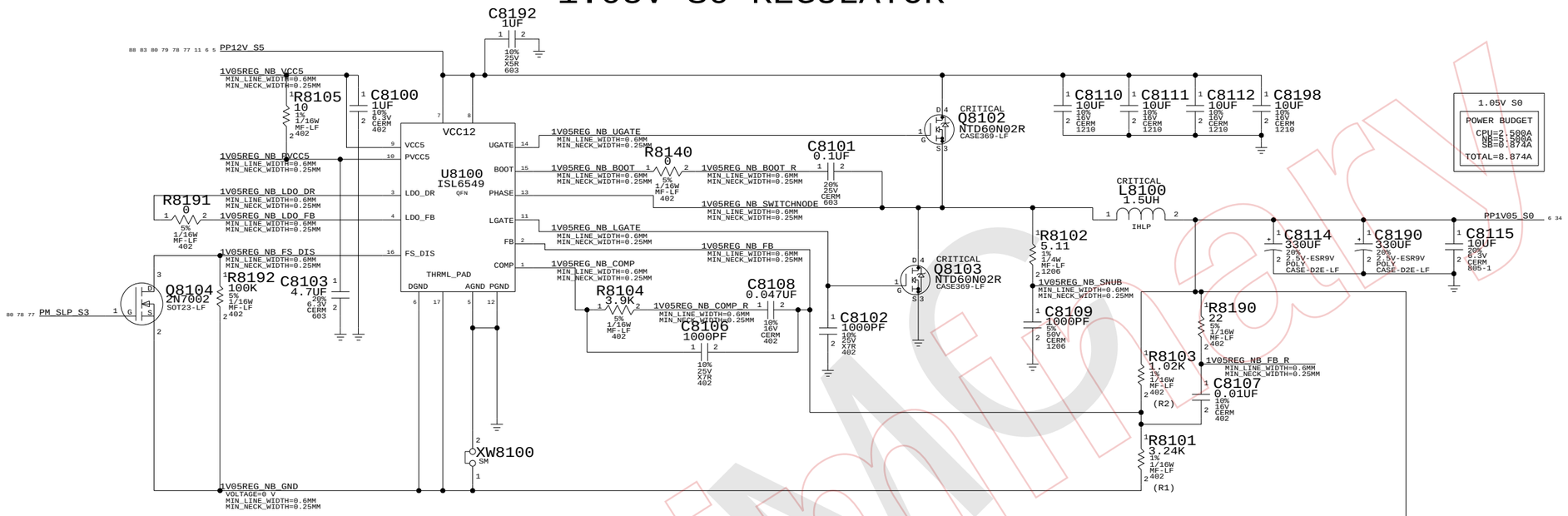


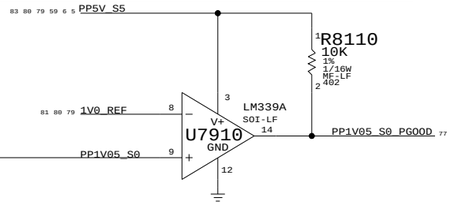


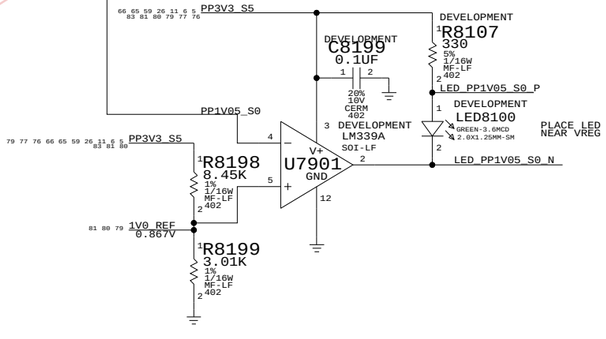


1.5V Vreg			
SYNC_MASTER=FINO-PC	SYNC_DATE=05/18/2005		
NOTICE OF PROPRIETARY PROPERTY			
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING I TO MAINTAIN THE DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART			
APPLE COMPUTER INC.	SIZE D	DRAWING NUMBER 051-7148	REV. 13
	SCALE NONE	SHT 80 OF 110	

1.05V S0 REGULATOR





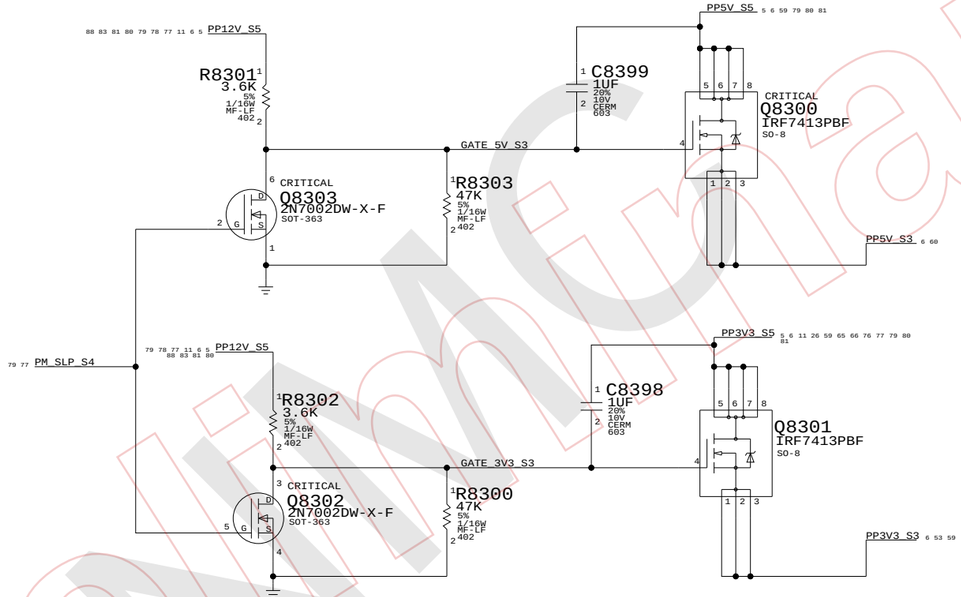


1.05V VREG

SYNC_MASTER=M38-RT SYNC_DATE=05/18/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT 81 OF 110	



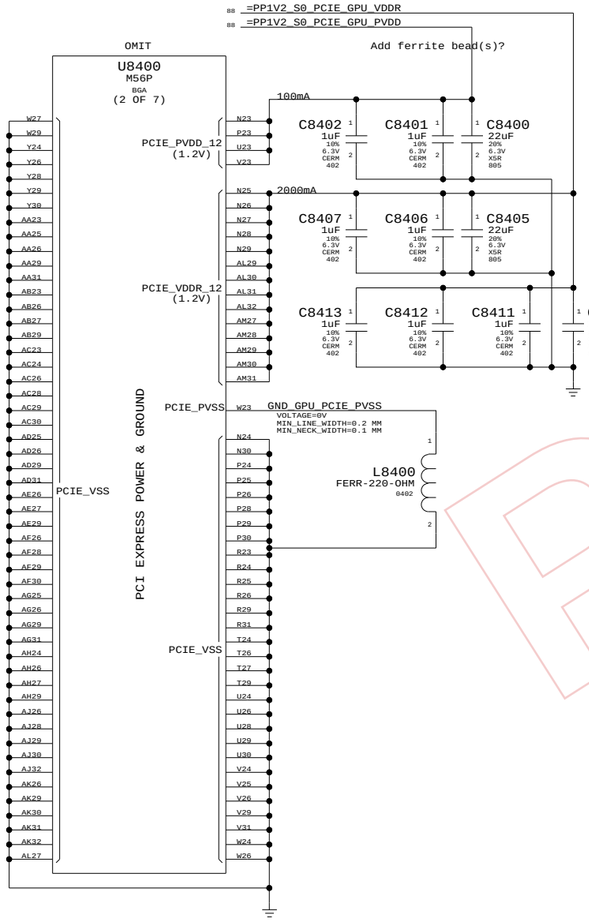
5V & 3.3V Fets

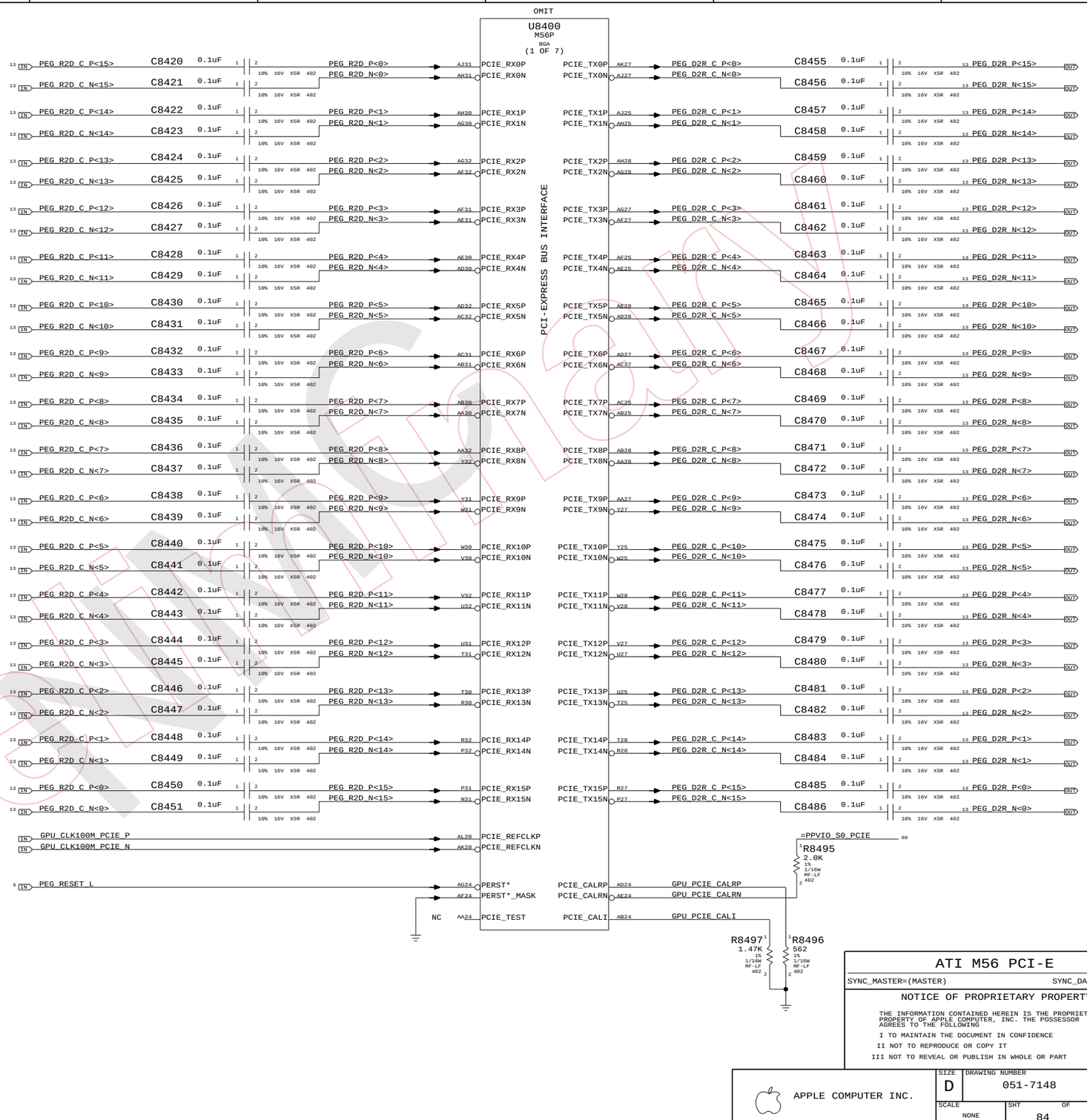
SYNC_MASTER=FINO-PC SYNC_DATE=04/12/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE: NONE SHT 83 OF 110





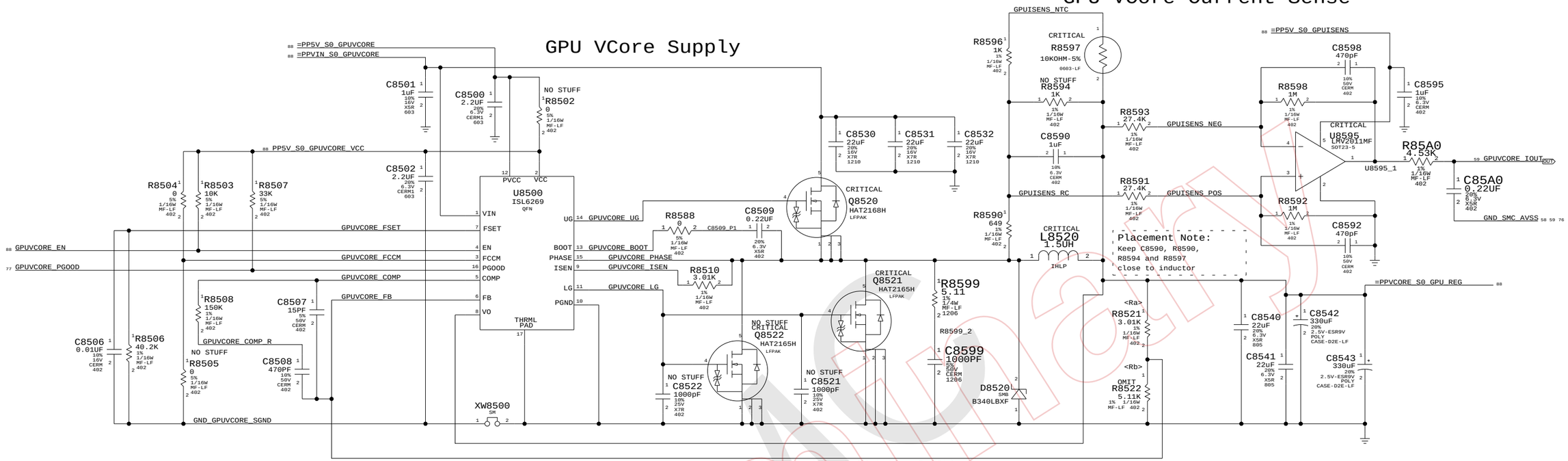
ATI M56 PCI-E

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT: 84 OF 110	

GPU VCore Current Sense



GPU VCore Supply

Vout(low) = 0.6V * (1 + Ra/Rb)
Vout(high) = 0.6V * (1 + Ra/Req)
Req = Rb || Rc

Back-Bias Positive Supply

=PPVCORE_S0_GPU_BBP — =PPVOUT_S0_GPUBBP_LDO

Back-Bias Negative Supply

=PNVOUT_S0_GPUBBN_REG

GPU (M56) Core Supplies

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

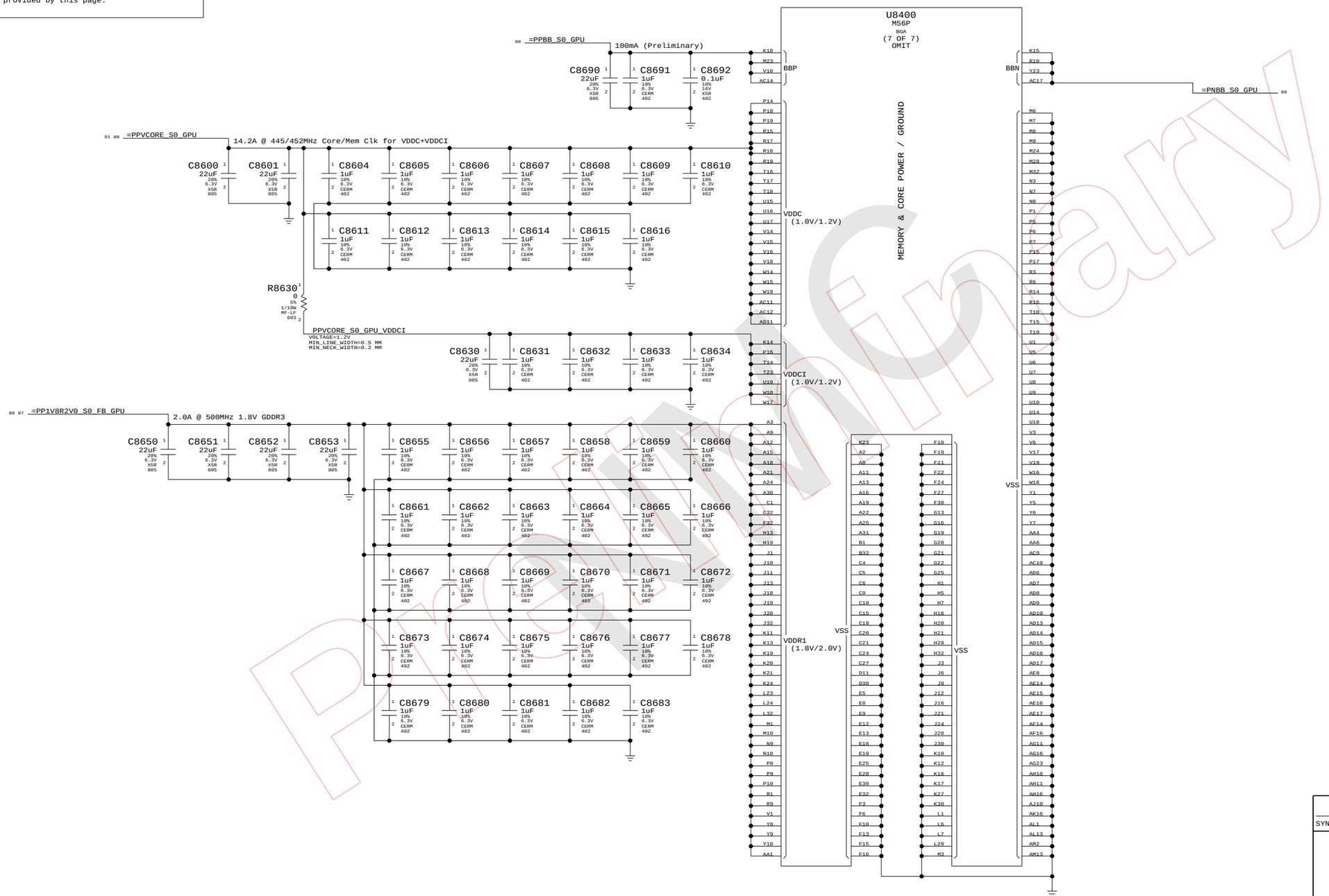
SCALE	SHT	OF
NONE	85	110

Page Notes

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)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

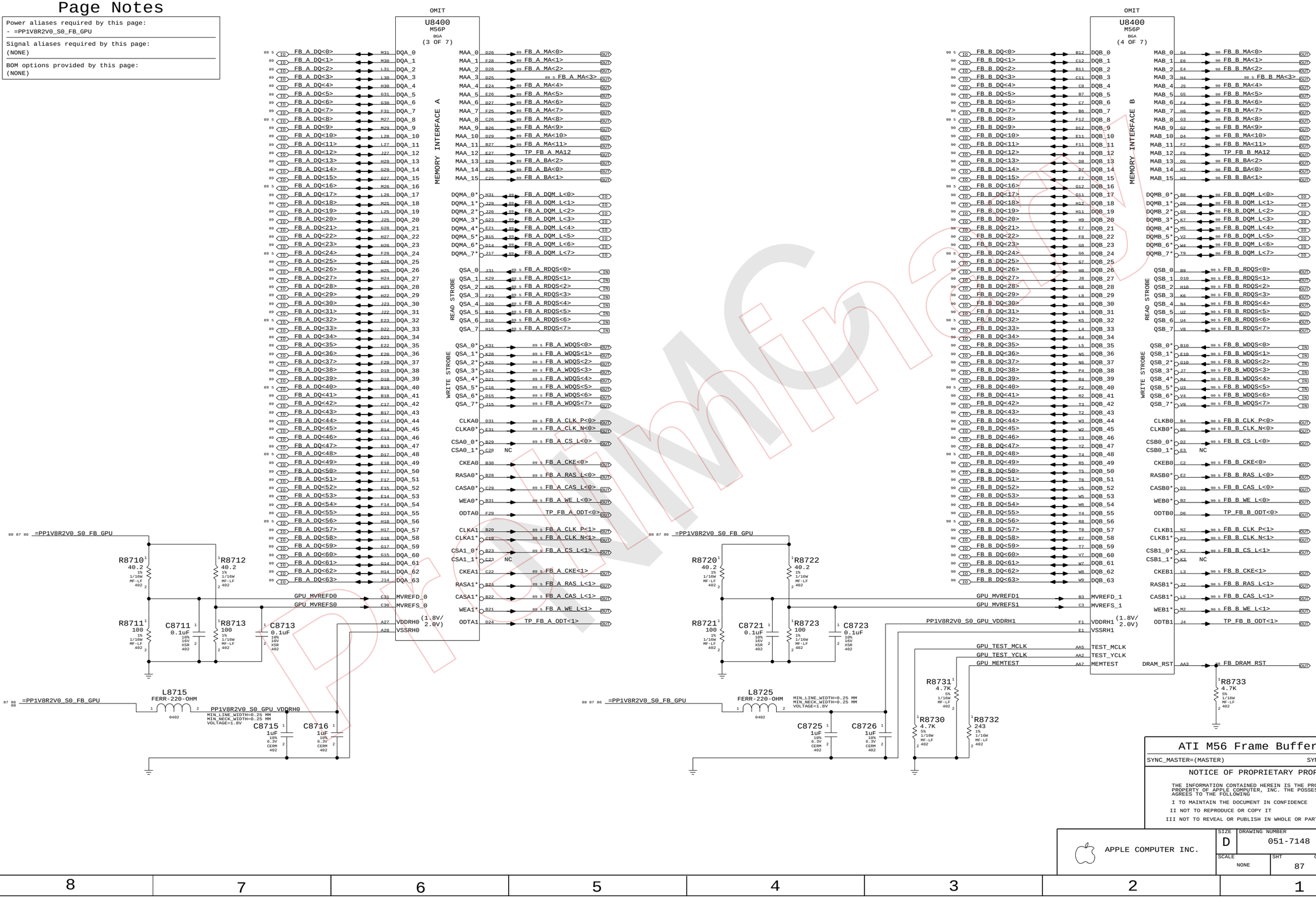
SCALE	SHT	OF
NONE	86	110

Page Notes

Power aliases required by this page:
- =PP1V8R2V0_S0_FB_GPU

Signal aliases required by this page:
(NONE)

BOM options provided by this page:
(NONE)



ATI M56 Frame Buffer I/F

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE	SHT	OF
NONE	87	110

"S0" GPU RAILS

ONLY ON IN RUN

PP1V0R1V2_S0_GPU
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.125MM
VOLTAGE=1.2V
=PPVCORE_S0_GPU_REG 85
=PPVCORE_S0_GPU 86 91
=PPVCORE_S0_GPU_BBP 85

PP5V_S0_GPUVCORE_VCC
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.125MM
VOLTAGE=5V
10 1 1/10W 2 R8800 603 MF-LF 5%
=PP5V_S0_GPUVCORE 85
GPUVCORE_VCC
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.125MM
VOLTAGE=5V

PP1V2_GPU_IO_S0
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.125MM
VOLTAGE=1.2V
=PP1V2_S0_PCIE_GPU_VDDR 84
=PP1V2_S0_PCIE_GPU_PVDD 84
=PPVIO_S0_PCIE 84
=PP1V2_S0_REG 77
=PP1V2_S0_GPU_VDDPLL 91

PPBB_S0_GPU
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.125MM
VOLTAGE=1.2V
=PPVOUT_S0_GPUBBP_LDO 85
=PPBB_S0_GPU 86

PNBB_S0_GPU
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.2MM
VOLTAGE=0
=PNVOUT_S0_GPUBBN_REG 85
=PNBB_S0_GPU 86

76 61 59 41 26 11 10 6 PP3V3_S0
=PP3V3_S0_GPUBBP
=PP3V3_S0_GPUBBCTL
=PP3V3_DDC_DVI 97
=PP3V3_S0_LCD 94
=PP3V3_S0_GPU_VDDR3 88 91
=PP3V3_S0_GPU 6 91 93 97
=PP3V3_S0_GPUBBN
=PP3V3_S0_GPU_CLOCKS
=PP3V3_DDC_LCD 94
=PP3V3_GPU 94

77 11 6 PP2V5_S0
=PP2V5_S0_GPU_PVDD 91
=PP2V5_S0_GPU_VDD25 91
=PP2V5_S0_GPU_VDDC_CT 91
=PP2V5_S0_GPU 93

PP1V8R2V0_S0_FB_GPU
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.125MM
VOLTAGE=1.8V
=PP1V8_S0_FB_VDD 89 90
=PP1V8R3V3_S0_GPU_VDDR4 91
=PP1V8R3V3_S0_GPU_VDDR5 91
=PP1V8_S0_FB_VDDQ 89 90
PP1V8_S0 78
=PP1V8R2V0_S0_FB_GPU 86 87

83 81 80 79 78 77 11 6 5 PP12V_S5
=PPVIN_S0_GPUVCORE 85

6 PP12V_S0
=PP12V_GPU 94

97 75 6 PP5V_S0
=PP5V_S0_GPUBBCTL
=PP5V_S0_DVI_DDC 97
=PP5V_S0_GPUISENS 85

85 GPUVCORE_EN
33 1 1/10W 2 R8801 402 MF-LF 5%
PM_SLP_S3_L 6 23 58 77 79

87 FB_DRAM_RST
MAKE_BASE=TRUE
DRAM_RST 5 89 90

M56 GPIOS

=PP3V3_S0_GPU_VDDR3 88 91

94 91 GPU_GPIO_0
10K 1 1/10W 2 R8813 402 MF-LF 5%

GPIO 0 = TRANSMITTER POWER SAVINGS ENABLE
INTERNAL PULL DOWN, ATI RECOMMENDS HIGH

91 GPU_GPIO_1
10K 1 1/10W 2 R8802 402 MF-LF 5%

GPIO 1 = TRANSMITTER DE-EMPHASIS ENABLE
INTERNAL PULL DOWN, ATI RECOMMENDS HIGH

91 GPU_GPIO_2
NOSTUFF 10K 1 1/10W 2 R8803 402 MF-LF 5%

91 GPU_GPIO_3
NOSTUFF 10K 1 1/10W 2 R8804 402 MF-LF 5%

91 GPU_GPIO_4
NOSTUFF 10K 1 1/10W 2 R8805 402 MF-LF 5%

GPIO 4 = DEBUG SIGNALS OUT

91 GPU_GPIO_5
10K 1 1/10W 2 R8806 402 MF-LF 5%

91 GPU_GPIO_6
NOSTUFF 10K 1 1/10W 2 R8807 402 MF-LF 5%

TP_GPU_GPIO_7
MAKE_BASE=TRUE
GPU_GPIO_7 91

91 GPU_GPIO_8
NOSTUFF 10K 1 1/10W 2 R8808 402 MF-LF 5%

NC_GPU_GPIO_10
MAKE_BASE=TRUE
GPU_GPIO_10 91

91 GPU_GPIO_9
NOSTUFF 10K 1 1/10W 2 R8809 402 MF-LF 5%

91 GPU_GPIO_13
NOSTUFF 10K 1 1/10W 2 R8812 402 MF-LF 5%
ATI_FB_256M

91 GPU_GPIO_12
10K 1 1/10W 2 R8810 402 MF-LF 5%

91 GPU_GPIO_11
NOSTUFF 10K 1 1/10W 2 R8811 402 MF-LF 5%

GPIO 9,13,12,11 = ROM ID CFG
INTERNAL PULL DOWN
0010 = 256 M APERATURE SIZE

ATI_FB_256M
91 GPU_GPIO_24
10K 1 1/10W 2 R8830 402 MF-LF 5%

ATI_FB_HYNIX
91 GPU_GPIO_27
10K 1 1/10W 2 R8831 402 MF-LF 5%

91 GPU_GPIO_28
10K 1 1/10W 2 R8832 402 MF-LF 5%

TMDS_PANEL
91 GPU_GPIO_29
10K 1 1/10W 2 R8833 402 MF-LF 5%

GPU_VCORE_LOW
MAKE_BASE=TRUE
GPU_GPIO_15 91

10K 1 1/10W 2 R8850 402 MF-LF 5%

GPIO 15 = SWITCH CORE VOLTAGE HIGH TO LOW
EXTERNAL PULL DOWN RECOMMENDED

TP_GPU_GPIO_14
MAKE_BASE=TRUE
GPU_GPIO_14 91

TP_GPU_GPIO_17
MAKE_BASE=TRUE
GPU_GPIO_17 91

TP_GPU_VGA_R
MAKE_BASE=TRUE
GPU_VGA_R 93

TP_GPU_VGA_G
MAKE_BASE=TRUE
GPU_VGA_G 93

TP_GPU_VGA_B
MAKE_BASE=TRUE
GPU_VGA_B 93

TP_GPU_VGA_HSYNC
MAKE_BASE=TRUE
GPU_VGA_HSYNC 93

TP_GPU_VGA_VSYNC
MAKE_BASE=TRUE
GPU_VGA_VSYNC 93

TP_GPU_TV_Y
MAKE_BASE=TRUE
GPU_TV_Y 93

TP_GPU_TV_COMP
MAKE_BASE=TRUE
GPU_TV_COMP 93

TP_GPU_TV_C
MAKE_BASE=TRUE
GPU_TV_C 93

TP_GPU_DDC_B_CLK
MAKE_BASE=TRUE
GPU_DDC_B_CLK 93

TP_GPU_DDC_B_DATA
MAKE_BASE=TRUE
GPU_DDC_B_DATA 93

GPU MISC


CRITICAL
=PP1V8_S0_FB_VDD
C8900 22uF 20% 6.3V X5R 805
C8901 0.1uF 10% 16V X5R 402
C8902 0.1uF 10% 16V X5R 402
C8903 0.1uF 10% 16V X5R 402
C8904 0.1uF 10% 16V X5R 402
L8910 FERR-220-OHM 0402
L8915 FERR-220-OHM 0402
PP1V8_FB_A0_VDDA0
PP1V8_FB_A0_VDDA1
VOLTAGE=1.8V
MIN_LINE_WIDTH=0.2 MM
MIN_NECK_WIDTH=0.1 MM
Connect to designated pin, then GND
C8910 0.1uF 10% 16V X5R 402
C8915 0.1uF 10% 16V X5R 402
U8900.J1
U8900.J12
OMIT
U8900
FBGA
(2 OF 2)
16MX32-GDDR3-500MHZ
K4J52324QC-BC20
VDD0 VDD1 VDD2 VDD3 VDD4 VDD5 VDD6 VDD7
VDDA0 VDDA1
VDDQ0 VDDQ1 VDDQ2 VDDQ3 VDDQ4 VDDQ5 VDDQ6 VDDQ7 VDDQ8 VDDQ9 VDDQ10 VDDQ11 VDDQ12 VDDQ13 VDDQ14 VDDQ15 VDDQ16 VDDQ17 VDDQ18 VDDQ19 VDDQ20 VDDQ21
VREF0 VREF1
VSS0 VSS1 VSS2 VSS3 VSS4 VSS5 VSS6 VSS7
VSSA0 VSSA1
VSSQ0 VSSQ1 VSSQ2 VSSQ3 VSSQ4 VSSQ5 VSSQ6 VSSQ7 VSSQ8 VSSQ9 VSSQ10 VSSQ11 VSSQ12 VSSQ13 VSSQ14 VSSQ15 VSSQ16 VSSQ17 VSSQ18 VSSQ19
=PP1V8_S0_FB_VDDQ
C8920 22uF 20% 6.3V X5R 805
C8921 0.1uF 10% 16V X5R 402
C8922 0.1uF 10% 16V X5R 402
C8923 0.1uF 10% 16V X5R 402
C8924 0.1uF 10% 16V X5R 402
C8925 0.1uF 10% 16V X5R 402
C8926 0.1uF 10% 16V X5R 402
R8930 2.37K 1% 1/16W MF-LF 402
R8932 2.37K 1% 1/16W MF-LF 402
FB_A0_VREF0
FB_A0_VREF1
MIN_LINE_WIDTH=0.2 MM
MIN_NECK_WIDTH=0.1 MM
R8931 5.49K 1% 1/16W MF-LF 402
R8933 5.49K 1% 1/16W MF-LF 402
C8931 0.1uF 10% 16V X5R 402
C8933 0.1uF 10% 16V X5R 402
R8940 121 1% 1/16W MF-LF 402
R8942 121 1% 1/16W MF-LF 402
R8944 121 1% 1/16W MF-LF 402
R8946 60.4 1% 1/16W MF-LF 402
R8941 1K 5% 1/16W MF-LF 402
R8943 121 1% 1/16W MF-LF 402
R8945 60.4 1% 1/16W MF-LF 402
R8947 121 1% 1/16W MF-LF 402
CRITICAL
OMIT
U8900
FBGA
(1 OF 2)
16MX32-GDDR3-560MHZ
K4J52324QC-BC20
MFHIGH
A0 A1 A2 A3 A4 A5 A6 A7 A8/AP A9 A10 A11
CKE CK CK* CS* WE* CAS* RAS*
ZQ MF SEN RESET
RDQS0 RDQS1 RDQS2 RDQS3
WDQS0 WDQS1 WDQS2 WDQS3
BA0 BA1 BA2
RFU1 RFU2
FB_A_MA<0> FB_A_MA<1> FB_A_MA<2> FB_A_MA<3> FB_A_MA<4> FB_A_MA<5> FB_A_MA<6> FB_A_MA<7> FB_A_MA<8> FB_A_MA<9> FB_A_MA<10> FB_A_MA<11>
FB_A_CKE<0> FB_A_CLK_P<0> FB_A_CLK_N<0> FB_A_CS_L<0> FB_A_WE_L<0> FB_A_CAS_L<0> FB_A_RAS_L<0>
FB_A0_ZQ FB_A0_MF FB_A0_SEN
DRAM_RST
FB_A_RDQS<0> FB_A_RDQS<3> FB_A_RDQS<2> FB_A_RDQS<1>
FB_A_WDQS<0> FB_A_WDQS<3> FB_A_WDQS<2> FB_A_WDQS<1>
FB_A_BA<0> FB_A_BA<1> FB_A_BA<2>
TP_U8900_J2 TP_U8900_J3
R8948 243 1% 1/16W MF-LF 402
R8949 100 5% 1/16W MF-LF 402
DM0 DM1 DM2 DM3
DQ0 DQ1 DQ2 DQ3 DQ4 DQ5 DQ6 DQ7 DQ8 DQ9 DQ10 DQ11 DQ12 DQ13 DQ14 DQ15 DQ16 DQ17 DQ18 DQ19 DQ20 DQ21 DQ22 DQ23 DQ24 DQ25 DQ26 DQ27 DQ28 DQ29 DQ30 DQ31
FB_A_DQM_L<0> FB_A_DQM_L<3> FB_A_DQM_L<2> FB_A_DQM_L<1>
FB_A_DQ<2> FB_A_DQ<4> FB_A_DQ<3> FB_A_DQ<7> FB_A_DQ<1> FB_A_DQ<5> FB_A_DQ<0> FB_A_DQ<6> FB_A_DQ<28> FB_A_DQ<30> FB_A_DQ<29> FB_A_DQ<27> FB_A_DQ<31> FB_A_DQ<25> FB_A_DQ<26> FB_A_DQ<24> FB_A_DQ<21> FB_A_DQ<23> FB_A_DQ<19> FB_A_DQ<20> FB_A_DQ<22> FB_A_DQ<16> FB_A_DQ<18> FB_A_DQ<17> FB_A_DQ<13> FB_A_DQ<14> FB_A_DQ<12> FB_A_DQ<15> FB_A_DQ<11> FB_A_DQ<8> FB_A_DQ<10> FB_A_DQ<9>
CRITICAL
=PP1V8_S0_FB_VDD
C8950 22uF 20% 6.3V X5R 805
C8951 0.1uF 10% 16V X5R 402
C8952 0.1uF 10% 16V X5R 402
C8953 0.1uF 10% 16V X5R 402
C8954 0.1uF 10% 16V X5R 402
L8960 FERR-220-OHM 0402
L8965 FERR-220-OHM 0402
PP1V8_FB_A1_VDDA0
PP1V8_FB_A1_VDDA1
VOLTAGE=1.8V
MIN_LINE_WIDTH=0.2 MM
MIN_NECK_WIDTH=0.1 MM
Connect to designated pin, then GND
C8960 0.1uF 10% 16V X5R 402
C8965 0.1uF 10% 16V X5R 402
U8900.J1
U8900.J12
OMIT
U8950
FBGA
(2 OF 2)
16MX32-GDDR3-500MHZ
K4J52324QC-BC20
VDD0 VDD1 VDD2 VDD3 VDD4 VDD5 VDD6 VDD7
VDDA0 VDDA1
VDDQ0 VDDQ1 VDDQ2 VDDQ3 VDDQ4 VDDQ5 VDDQ6 VDDQ7 VDDQ8 VDDQ9 VDDQ10 VDDQ11 VDDQ12 VDDQ13 VDDQ14 VDDQ15 VDDQ16 VDDQ17 VDDQ18 VDDQ19 VDDQ20 VDDQ21
VREF0 VREF1
VSS0 VSS1 VSS2 VSS3 VSS4 VSS5 VSS6 VSS7
VSSA0 VSSA1
VSSQ0 VSSQ1 VSSQ2 VSSQ3 VSSQ4 VSSQ5 VSSQ6 VSSQ7 VSSQ8 VSSQ9 VSSQ10 VSSQ11 VSSQ12 VSSQ13 VSSQ14 VSSQ15 VSSQ16 VSSQ17 VSSQ18 VSSQ19
=PP1V8_S0_FB_VDDQ
C8970 22uF 20% 6.3V X5R 805
C8971 0.1uF 10% 16V X5R 402
C8972 0.1uF 10% 16V X5R 402
C8973 0.1uF 10% 16V X5R 402
C8974 0.1uF 10% 16V X5R 402
C8975 0.1uF 10% 16V X5R 402
C8976 0.1uF 10% 16V X5R 402
R8980 2.37K 1% 1/16W MF-LF 402
R8982 2.37K 1% 1/16W MF-LF 402
FB_A1_VREF0
FB_A1_VREF1
MIN_LINE_WIDTH=0.2 MM
MIN_NECK_WIDTH=0.1 MM
R8981 5.49K 1% 1/16W MF-LF 402
R8983 5.49K 1% 1/16W MF-LF 402
C8981 0.1uF 10% 16V X5R 402
C8983 0.1uF 10% 16V X5R 402
R8990 121 1% 1/16W MF-LF 402
R8992 121 1% 1/16W MF-LF 402
R8994 121 1% 1/16W MF-LF 402
R8996 60.4 1% 1/16W MF-LF 402
R8991 1K 5% 1/16W MF-LF 402
R8993 121 1% 1/16W MF-LF 402
R8995 60.4 1% 1/16W MF-LF 402
R8997 121 1% 1/16W MF-LF 402
CRITICAL
OMIT
U8950
FBGA
(1 OF 2)
16MX32-GDDR3-560MHZ
K4J52324QC-BC20
MFHIGH
A0 A1 A2 A3 A4 A5 A6 A7 A8/AP A9 A10 A11
CKE CK CK* CS* WE* CAS* RAS*
ZQ MF SEN RESET
RDQS0 RDQS1 RDQS2 RDQS3
WDQS0 WDQS1 WDQS2 WDQS3
BA0 BA1 BA2
RFU1 RFU2
FB_A_MA<0> FB_A_MA<1> FB_A_MA<2> FB_A_MA<3> FB_A_MA<4> FB_A_MA<5> FB_A_MA<6> FB_A_MA<7> FB_A_MA<8> FB_A_MA<9> FB_A_MA<10> FB_A_MA<11>
FB_A_CKE<1> FB_A_CLK_P<1> FB_A_CLK_N<1> FB_A_CS_L<1> FB_A_WE_L<1> FB_A_CAS_L<1> FB_A_RAS_L<1>
FB_A1_ZQ FB_A1_MF FB_A1_SEN
DRAM_RST
FB_A_RDQS<4> FB_A_RDQS<7> FB_A_RDQS<6> FB_A_RDQS<5>
FB_A_WDQS<4> FB_A_WDQS<7> FB_A_WDQS<6> FB_A_WDQS<5>
FB_A_BA<0> FB_A_BA<1> FB_A_BA<2>
TP_U8950_J2 TP_U8950_J3
R8998 243 1% 1/16W MF-LF 402
R8999 100 5% 1/16W MF-LF 402
DM0 DM1 DM2 DM3
DQ0 DQ1 DQ2 DQ3 DQ4 DQ5 DQ6 DQ7 DQ8 DQ9 DQ10 DQ11 DQ12 DQ13 DQ14 DQ15 DQ16 DQ17 DQ18 DQ19 DQ20 DQ21 DQ22 DQ23 DQ24 DQ25 DQ26 DQ27 DQ28 DQ29 DQ30 DQ31
FB_A_DQM_L<4> FB_A_DQM_L<7> FB_A_DQM_L<6> FB_A_DQM_L<5>
FB_A_DQ<36> FB_A_DQ<34> FB_A_DQ<37> FB_A_DQ<33> FB_A_DQ<35> FB_A_DQ<38> FB_A_DQ<32> FB_A_DQ<39> FB_A_DQ<61> FB_A_DQ<59> FB_A_DQ<60> FB_A_DQ<58> FB_A_DQ<57> FB_A_DQ<56> FB_A_DQ<62> FB_A_DQ<63> FB_A_DQ<50> FB_A_DQ<49> FB_A_DQ<53> FB_A_DQ<51> FB_A_DQ<48> FB_A_DQ<55> FB_A_DQ<52> FB_A_DQ<54> FB_A_DQ<40> FB_A_DQ<42> FB_A_DQ<41> FB_A_DQ<43> FB_A_DQ<47> FB_A_DQ<45> FB_A_DQ<46> FB_A_DQ<44>
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 A
SYNC_MASTER=(MASTER)
SYNC_DATE=(MASTER)
NOTICE OF PROPRIETARY PROPERTY
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APPLE COMPUTER INC.
SIZE D
DRAWING NUMBER 051-7148
REV. 13
SCALE NONE
SHT 89 OF 110

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)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

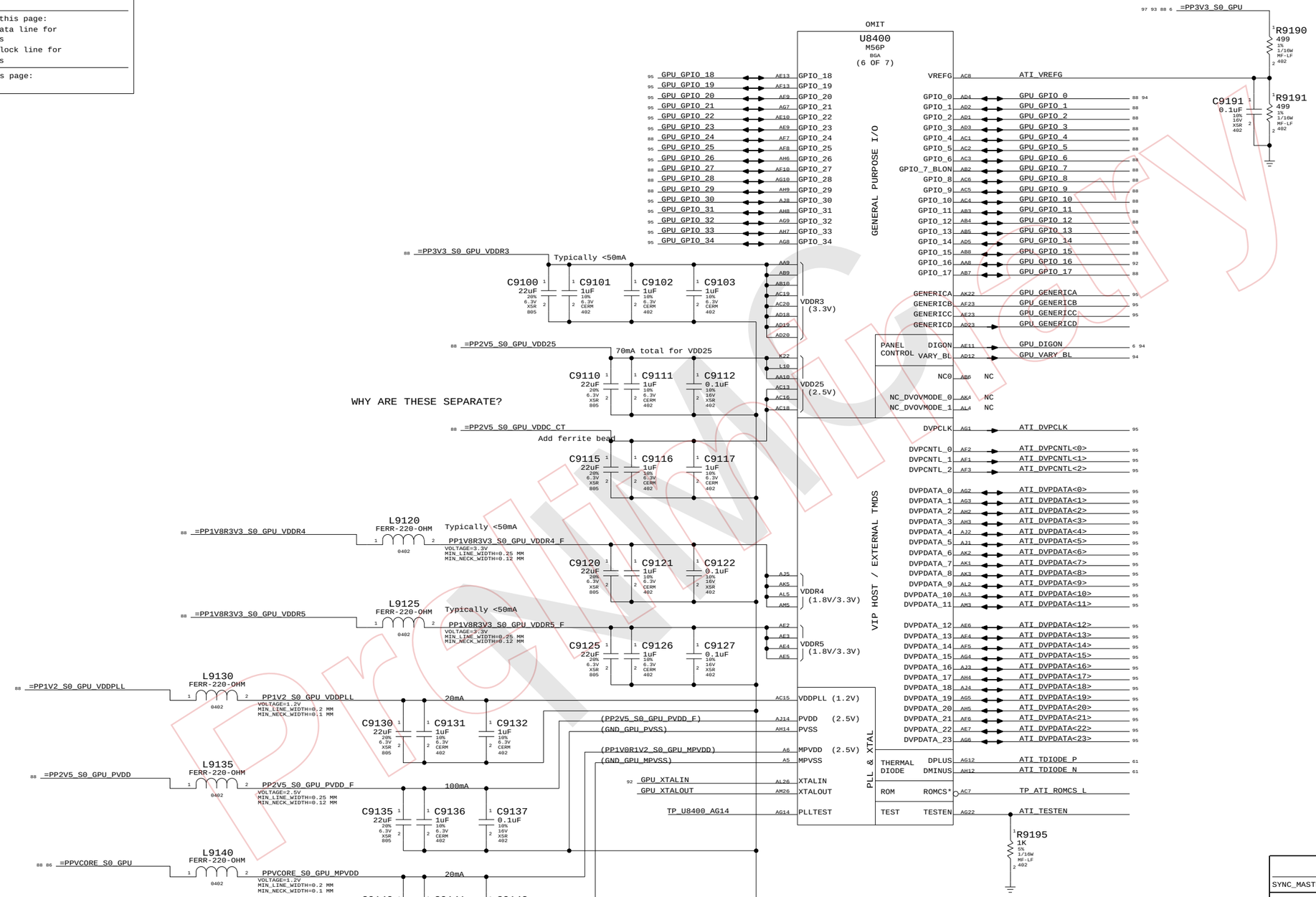
SCALE	SHT	OF
NONE	90	110

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)



APPLE COMPUTER INC.

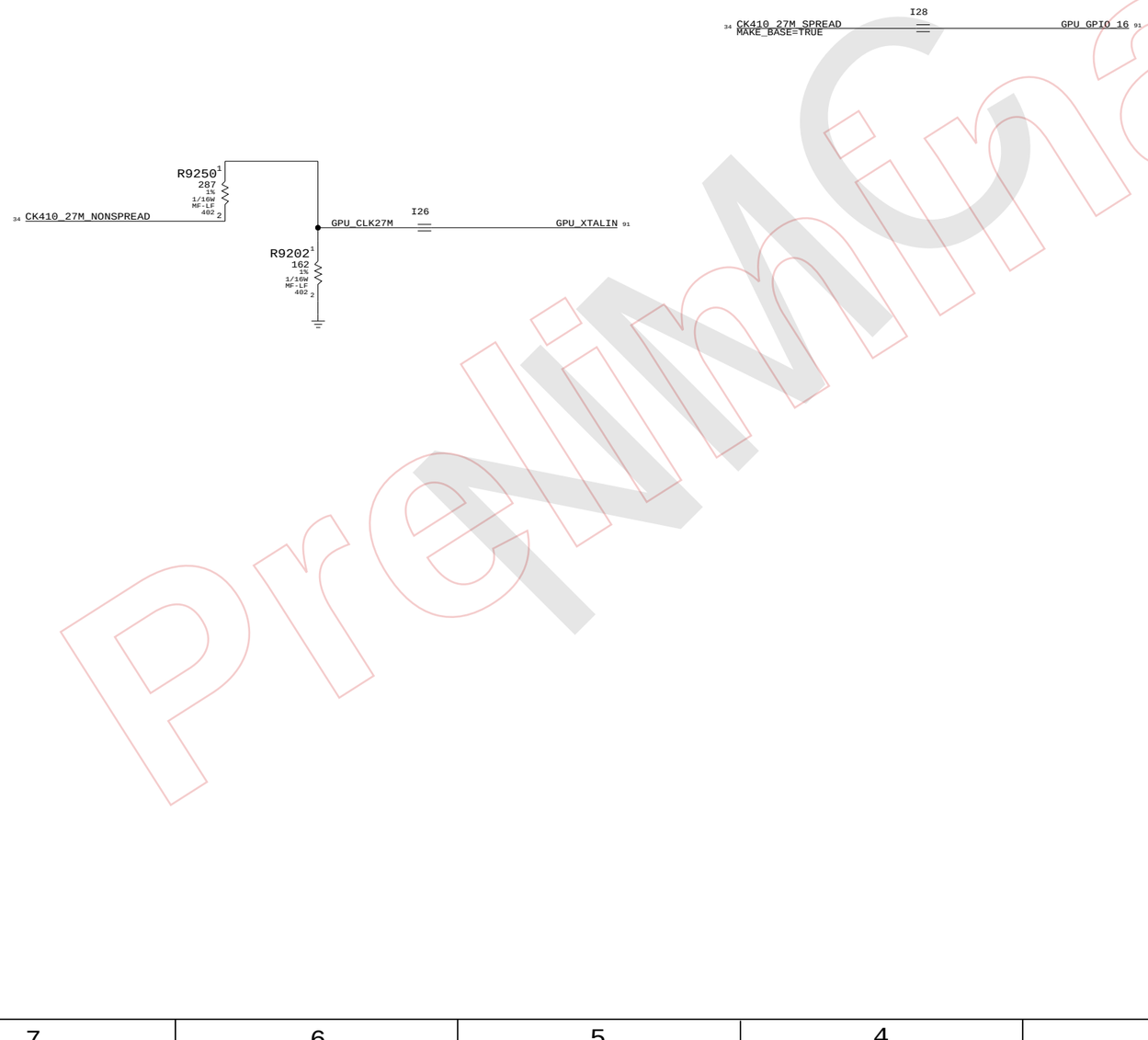
SIZE	DRAWING NUMBER	REV.
D	051-7148	13
SCALE: NONE	SHT 91 OF 110	

Page Notes

Power aliases required by this page:
- =PP3V3_GPU_CLOCKS
- =PPVIN_GPU_LVDDR_LDO
- =PP2V5_GPU_LVDDR_LDO
- =PP3V3_GPU_PWRSEQ
- =PP2V5_GPU_PWRSEQ
- =PP1V8_GPU_PWRSEQ
- =PP1V5_GPU_PWRSEQ

Signal aliases required by this page:
(NONE)

BOM options provided by this page:
- GPU_SS
- GPU_LVDDR_2V8



GPU CLOCKS

SYNC_MASTER=BOZEMAN SYNC_DATE=05/21/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE: NONE

SHT 92 OF 110

Page Notes

Power aliases required by this page:
- =PP2V5_S0_GPU
- =PP1V8R2V5_S0_GPU_LVDDR

Signal aliases required by this page:
(NONE)

BOM options provided by this page:
(NONE)

Sum of peak currents on this page: 605mA

88 =PP2V5_S0_GPU

L9300 FERR-220-OHM 0402 — PP2V5_S0_GPU_TPVDD — MIN_LINE_WIDTH=0.2 MM, MIN_NECK_WIDTH=0.1 MM, VOLTAGE=2.5V — 20mA peak
C9300 22uF 20% 6.3V X5R 805
C9301 1uF 10% 6.3V CERM 402
C9302 1uF 10% 6.3V CERM 402

L9305 FERR-220-OHM 0402 — PP2V5_S0_GPU_TXVDDR — MIN_LINE_WIDTH=0.3 MM, MIN_NECK_WIDTH=0.12 MM, VOLTAGE=2.5V — 150mA peak
C9305 22uF 20% 6.3V X5R 805
C9306 1uF 10% 6.3V CERM 402
C9307 0.1uF 10% 16V X5R 402

L9310 FERR-220-OHM 0402 — PP2V5_S0_GPU_AVDD — MIN_LINE_WIDTH=0.25 MM, MIN_NECK_WIDTH=0.12 MM, VOLTAGE=2.5V — 65mA peak
C9310 22uF 20% 6.3V X5R 805
C9311 1uF 10% 6.3V CERM 402
C9312 0.1uF 10% 16V X5R 402

L9315 FERR-220-OHM 0402 — PP2V5_S0_GPU_VDD1DI — MIN_LINE_WIDTH=0.2 MM, MIN_NECK_WIDTH=0.12 MM, VOLTAGE=2.5V — 20mA peak
C9315 22uF 20% 6.3V X5R 805
C9316 1uF 10% 6.3V CERM 402
C9317 0.1uF 10% 16V X5R 402

L9320 FERR-220-OHM 0402 — PP2V5_S0_GPU_A2VDD — MIN_LINE_WIDTH=0.3 MM, MIN_NECK_WIDTH=0.125 MM, VOLTAGE=2.5V — 130mA peak
C9320 22uF 20% 6.3V X5R 805
C9321 1uF 10% 6.3V CERM 402
C9322 0.1uF 10% 16V X5R 402

L9325 FERR-220-OHM 0402 — PP2V5_S0_GPU_VDD2DI — MIN_LINE_WIDTH=0.2 MM, MIN_NECK_WIDTH=0.12 MM, VOLTAGE=2.5V — 20mA peak
C9325 22uF 20% 6.3V X5R 805
C9326 1uF 10% 6.3V CERM 402
C9327 0.1uF 10% 16V X5R 402

L9330 FERR-220-OHM 0402 — PP2V5_S0_GPU_LPVDD — MIN_LINE_WIDTH=0.2 MM, MIN_NECK_WIDTH=0.12 MM, VOLTAGE=2.5V — 20mA peak
C9330 22uF 20% 6.3V X5R 805
C9331 1uF 10% 6.3V CERM 402
C9332 1uF 10% 6.3V CERM 402

L9345 FERR-220-OHM 0402 — PP2V5_S0_GPU_LVDDR — MIN_LINE_WIDTH=0.35 MM, MIN_NECK_WIDTH=0.125 MM, VOLTAGE=2.5V — 200mA peak
C9340 22uF 20% 6.3V X5R 805
C9345 22uF 20% 6.3V X5R 805
C9341 1uF 10% 6.3V CERM 402
C9342 0.1uF 10% 16V X5R 402
C9346 0.1uF 10% 16V X5R 402
C9347 0.1uF 10% 16V X5R 402

OMIT

U8400 M56P BGA (5 OF 7)

INTEGRATED TMDS
- AM8 TPVDD (2.5V)
- AL8 TPVSS
- AJ6, AK6, AL6, AM6 TXVDDR (2.5V)
- AJ7, AK7, AK8, AL7, AM7 TXVSSR
- AL25, AM25 AVDD (2.5V)
- AJ24, AK25 AVSS
- AK23 AVSSQ
- AM23 VDD1DI (2.5V)
- AL23 VSS1DI

DAC (CRT)
- 93 ATI_RSET → AL22 RSET
- AL16, AM16 A2VDD (2.5V)
- AL17, AM17 A2VSS
- NC AL14 NC_A2VDDQ
- AK13 A2VSSQ
- AJ16 VDD2DI (2.5V)
- AJ17 VSS2DI
- 93 ATI_R2SET → AK14 R2SET

DAC2 (TV/CRT2)
- AE19 LPVDD (2.5V)
- AE18 LPVSS
- AC21, AC22, AD21, AD22, AE20, AE21, AE22, AF19, AF20 LVDDR (2.5V)
- AF17, AF18, AF21, AF22, AG17, AG19, AH17, AH19, AJ19, AK17 LVSSR

LVDS

MONITOR IDENTIFICATION
- AH23 DDC1CLK → 97 GPU_DDC_A_CLK → TO
- AH22 DDC1DATA → 97 GPU_DDC_A_DATA → TO
- AG13 DDC2CLK → 88 GPU_DDC_B_CLK → TO
- AH13 DDC2DATA → 88 GPU_DDC_B_DATA → TO
- AF12 DDC3CLK → 94 93 GPU_DDC_C_CLK → TO
- AE12 DDC3DATA → 94 93 GPU_DDC_C_DATA → TO

97 TN GPU_HPD → AF11 HPD1

INTEGRATED TMDS
- TXCP AM9 → 97 TMDS_CLK_P → OUT
- TXCM AL9 → 97 TMDS_CLK_N → OUT
- TX0P AL10 → 97 TMDS_DATA_P<0> → OUT
- TX0M AK10 → 97 TMDS_DATA_N<0> → OUT
- TX1P AM11 → 97 TMDS_DATA_P<1> → OUT
- TX1M AL11 → 97 TMDS_DATA_N<1> → OUT
- TX2P AM12 → 97 TMDS_DATA_P<2> → OUT
- TX2M AL12 → 97 TMDS_DATA_N<2> → OUT
- TX3P AJ9 → 95 TMDS_DATA_P<3> → OUT
- TX3M AK9 → 95 TMDS_DATA_N<3> → OUT
- TX4P AJ11 → 95 TMDS_DATA_P<4> → OUT
- TX4M AK11 → 95 TMDS_DATA_N<4> → OUT
- TX5P AJ12 → 95 TMDS_DATA_P<5> → OUT
- TX5M AK12 → 95 TMDS_DATA_N<5> → OUT

DAC (CRT)
- R AK24 → 88 GPU_VGA_R → OUT
- G AM24 → 88 GPU_VGA_G → OUT
- B AL24 → 88 GPU_VGA_B → OUT
- HSYNC AJ23 → 88 GPU_VGA_HSYNC → OUT
- VSYNC AJ22 → 88 GPU_VGA_VSYNC → OUT

DAC2 (TV/CRT2)
- R2 AK15 → 97 GPU_R2 → OUT
- G2 AM15 → 97 GPU_G2 → OUT
- B2 AL15 → 97 GPU_B2 → OUT
- H2SYNC AF15 → 97 GPU_H2SYNC → OUT
- V2SYNC AG15 → 97 GPU_V2SYNC → OUT
- Y AJ15 → 88 GPU_TV_Y → OUT
- C AJ13 → 88 GPU_TV_C → OUT
- COMP AH15 → 88 GPU_TV_COMP → OUT

LVDS
- TXCLK_UP AJ21 → 94 LVDS_U_CLK_P → OUT
- TXCLK_UN AK21 → 94 LVDS_U_CLK_N → OUT
- TXOUT_U0P AG18 → 94 LVDS_U_DATA_P<0> → OUT
- TXOUT_U0N AH18 → 94 LVDS_U_DATA_N<0> → OUT
- TXOUT_U1P AK20 → 94 LVDS_U_DATA_P<1> → OUT
- TXOUT_U1N AJ20 → 94 LVDS_U_DATA_N<1> → OUT
- TXOUT_U2P AG20 → 94 LVDS_U_DATA_P<2> → OUT
- TXOUT_U2N AH20 → 94 LVDS_U_DATA_N<2> → OUT
- TXOUT_U3P AH21 → 94 LVDS_U_DATA_P<3> → OUT
- TXOUT_U3N AG21 → 94 LVDS_U_DATA_N<3> → OUT
- TXCLK_LP AM18 → 94 93 LVDS_L_CLK_P → OUT
- TXCLK_LN AL18 → 94 93 LVDS_L_CLK_N → OUT
- TXOUT_L0P AL19 → 94 93 LVDS_L_DATA_P<0> → OUT
- TXOUT_L0N AK19 → 94 93 LVDS_L_DATA_N<0> → OUT
- TXOUT_L1P AM20 → 94 93 LVDS_L_DATA_P<1> → OUT
- TXOUT_L1N AL20 → 94 93 LVDS_L_DATA_N<1> → OUT
- TXOUT_L2P AM21 → 94 93 LVDS_L_DATA_P<2> → OUT
- TXOUT_L2N AL21 → 94 93 LVDS_L_DATA_N<2> → OUT
- TXOUT_L3P AJ18 → 94 LVDS_L_DATA_P<3> → OUT
- TXOUT_L3N AK18 → 94 LVDS_L_DATA_N<3> → OUT

TERMINATION FOR TMDS USAGE OF LVDS PINS
PLACE CLOSE TO GPU (U8400)

- 94 93 LVDS_L_CLK_P → TMDS_PANEL R9370 100 5% 1/10W MF-LF 402
- 94 93 LVDS_L_CLK_N
- 94 93 LVDS_L_DATA_P<0> → TMDS_PANEL R9371 100 5% 1/10W MF-LF 402
- 94 93 LVDS_L_DATA_N<0>
- 94 93 LVDS_L_DATA_P<1> → TMDS_PANEL R9372 100 5% 1/10W MF-LF 402
- 94 93 LVDS_L_DATA_N<1>
- 94 93 LVDS_L_DATA_P<2> → TMDS_PANEL R9373 100 5% 1/10W MF-LF 402
- 94 93 LVDS_L_DATA_N<2>

Composite/S-Video	VGA	Component
Y	G	Y
C	R	Pr
Comp	B	Pb

97 91 88 6 =PP3V3_S0_GPU

- R9390 4.7K 5% 1/16W MF-LF 402
- R9391 4.7K 5% 1/16W MF-LF 402
- 94 93 GPU_DDC_C_CLK
- 94 93 GPU_DDC_C_DATA

ATI_RSET 93
ATI_R2SET 93

- R9350 499 1% 1/16W MF-LF 402
- R9351 715 1% 1/16W MF-LF 402

ATI M56 Video Interfaces

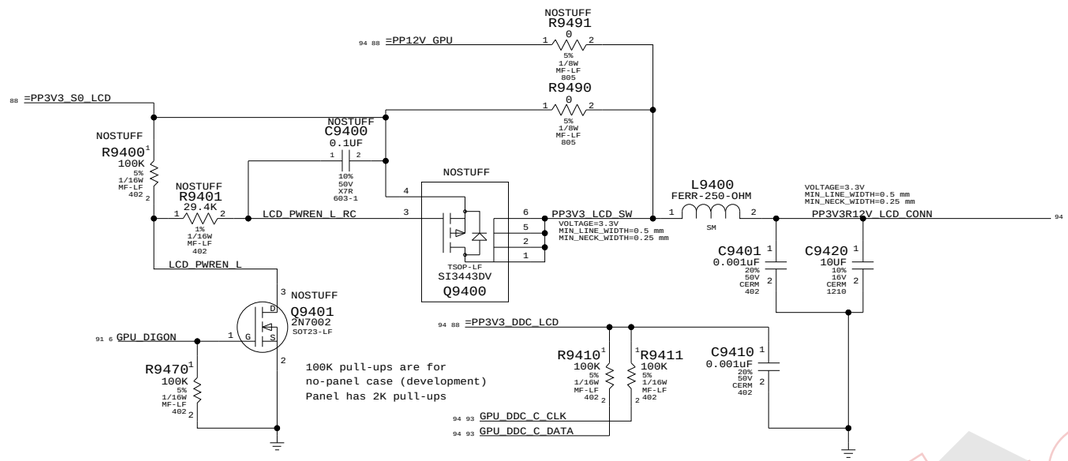
SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

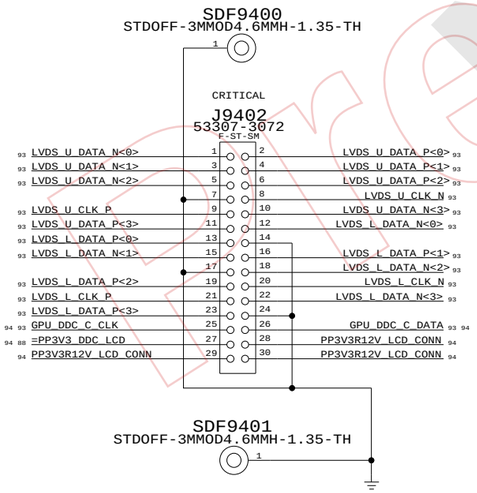
APPLE COMPUTER INC.

SIZE D | DRAWING NUMBER 051-7148 | REV. 13

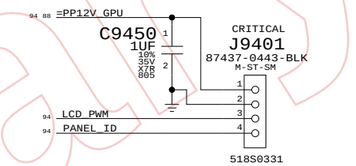
SCALE NONE | SHT 93 OF 110

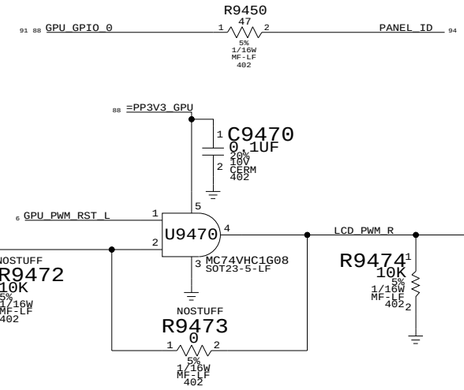
LCD (LVDS) INTERFACE





INVERTER INTERFACE





GATE TO PREVENT LEAKAGE ONTO PWM
MIGHT BE ABLE TO BYPASS IF SMC DRIVES SIGNAL

Internal Display Conns

SYNC_MASTER=BOZEMAN SYNC_DATE=04/27/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE: NONE SHT 94 OF 110

TP_TMDS_DATA_P<3>	MAKE_BASE=TRUE	TMDS_DATA_P<3>	93
TP_TMDS_DATA_N<3>	MAKE_BASE=TRUE	TMDS_DATA_N<3>	93
TP_TMDS_DATA_P<4>	MAKE_BASE=TRUE	TMDS_DATA_P<4>	93
TP_TMDS_DATA_N<4>	MAKE_BASE=TRUE	TMDS_DATA_N<4>	93
TP_TMDS_DATA_P<5>	MAKE_BASE=TRUE	TMDS_DATA_P<5>	93
TP_TMDS_DATA_N<5>	MAKE_BASE=TRUE	TMDS_DATA_N<5>	93

TP_ATI_DVPDATA<23>	MAKE_BASE=TRUE	ATI_DVPDATA<23>	91
TP_ATI_DVPDATA<22>	MAKE_BASE=TRUE	ATI_DVPDATA<22>	91
TP_ATI_DVPDATA<21>	MAKE_BASE=TRUE	ATI_DVPDATA<21>	91
TP_ATI_DVPDATA<20>	MAKE_BASE=TRUE	ATI_DVPDATA<20>	91
TP_ATI_DVPDATA<19>	MAKE_BASE=TRUE	ATI_DVPDATA<19>	91
TP_ATI_DVPDATA<18>	MAKE_BASE=TRUE	ATI_DVPDATA<18>	91
TP_ATI_DVPDATA<17>	MAKE_BASE=TRUE	ATI_DVPDATA<17>	91
TP_ATI_DVPDATA<16>	MAKE_BASE=TRUE	ATI_DVPDATA<16>	91
TP_ATI_DVPDATA<15>	MAKE_BASE=TRUE	ATI_DVPDATA<15>	91
TP_ATI_DVPDATA<14>	MAKE_BASE=TRUE	ATI_DVPDATA<14>	91
TP_ATI_DVPDATA<13>	MAKE_BASE=TRUE	ATI_DVPDATA<13>	91
TP_ATI_DVPDATA<12>	MAKE_BASE=TRUE	ATI_DVPDATA<12>	91
TP_ATI_DVPDATA<11>	MAKE_BASE=TRUE	ATI_DVPDATA<11>	91
TP_ATI_DVPDATA<10>	MAKE_BASE=TRUE	ATI_DVPDATA<10>	91
TP_ATI_DVPDATA<9>	MAKE_BASE=TRUE	ATI_DVPDATA<9>	91
TP_ATI_DVPDATA<8>	MAKE_BASE=TRUE	ATI_DVPDATA<8>	91
TP_ATI_DVPDATA<7>	MAKE_BASE=TRUE	ATI_DVPDATA<7>	91
TP_ATI_DVPDATA<6>	MAKE_BASE=TRUE	ATI_DVPDATA<6>	91
TP_ATI_DVPDATA<5>	MAKE_BASE=TRUE	ATI_DVPDATA<5>	91
TP_ATI_DVPDATA<4>	MAKE_BASE=TRUE	ATI_DVPDATA<4>	91
TP_ATI_DVPDATA<3>	MAKE_BASE=TRUE	ATI_DVPDATA<3>	91
TP_ATI_DVPDATA<2>	MAKE_BASE=TRUE	ATI_DVPDATA<2>	91
TP_ATI_DVPDATA<1>	MAKE_BASE=TRUE	ATI_DVPDATA<1>	91
TP_ATI_DVPDATA<0>	MAKE_BASE=TRUE	ATI_DVPDATA<0>	91
TP_ATI_DVPCLK	MAKE_BASE=TRUE	ATI_DVPCLK	91
TP_ATI_DVPCNTL<0>	MAKE_BASE=TRUE	ATI_DVPCNTL<0>	91
TP_ATI_DVPCNTL<1>	MAKE_BASE=TRUE	ATI_DVPCNTL<1>	91
TP_ATI_DVPCNTL<2>	MAKE_BASE=TRUE	ATI_DVPCNTL<2>	91

TP_GPU_GPIO<34>	MAKE_BASE=TRUE	GPU_GPIO_34	91
TP_GPU_GPIO<33>	MAKE_BASE=TRUE	GPU_GPIO_33	91
TP_GPU_GPIO<32>	MAKE_BASE=TRUE	GPU_GPIO_32	91
TP_GPU_GPIO<31>	MAKE_BASE=TRUE	GPU_GPIO_31	91
TP_GPU_GPIO<30>	MAKE_BASE=TRUE NO_TEST=TRUE	GPU_GPIO_30	91
TP_GPU_GPIO<26>	MAKE_BASE=TRUE	GPU_GPIO_26	91
TP_GPU_GPIO<25>	MAKE_BASE=TRUE	GPU_GPIO_25	91
TP_GPU_GPIO<23>	MAKE_BASE=TRUE	GPU_GPIO_23	91
TP_GPU_GPIO<22>	MAKE_BASE=TRUE	GPU_GPIO_22	91
TP_GPU_GPIO<21>	MAKE_BASE=TRUE	GPU_GPIO_21	91
TP_GPU_GPIO<20>	MAKE_BASE=TRUE	GPU_GPIO_20	91
TP_GPU_GPIO<19>	MAKE_BASE=TRUE	GPU_GPIO_19	91
TP_GPU_GPIO<18>	MAKE_BASE=TRUE	GPU_GPIO_18	91
TP_GPU_GENERICA	MAKE_BASE=TRUE	GPU_GENERICA	91
TP_GPU_GENERICB	MAKE_BASE=TRUE	GPU_GENERICB	91
TP_GPU_GENERICC	MAKE_BASE=TRUE	GPU_GENERICC	91

M56 TPS

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE	SHT
NONE	95 OF 110

DVI INTERFACE

PLACE LEFT SIDE AS CLOSE TO GPU (U8400) AS POSSIBLE

PLACE FILTER CLOSE TO TMDS CONNECTOR

93 TMDS_DATA_N<0> — DIFFERENTIAL_PAIR=TMDS_DATA_0
R9701 182 1% 1/10W MF-LF 402
93 TMDS_DATA_P<0> — DIFFERENTIAL_PAIR=TMDS_DATA_0
L9700 CRITICAL SYM_VER-1 2012M 90-OHM-300MA
TMDS_CONN_DN<0> — DIFFERENTIAL_PAIR=TMDS_CONN_D0 97
TMDS_CONN_DP<0> — DIFFERENTIAL_PAIR=TMDS_CONN_D0 97
NO_TEST=TRUE

93 TMDS_DATA_N<1> — DIFFERENTIAL_PAIR=TMDS_DATA_1
R9706 182 1% 1/10W MF-LF 402
93 TMDS_DATA_P<1> — DIFFERENTIAL_PAIR=TMDS_DATA_1
L9701 CRITICAL SYM_VER-1 2012M 90-OHM-300MA
TMDS_CONN_DN<1> — DIFFERENTIAL_PAIR=TMDS_CONN_D1 97
TMDS_CONN_DP<1> — DIFFERENTIAL_PAIR=TMDS_CONN_D1 97
NO_TEST=TRUE

93 TMDS_DATA_N<2> — DIFFERENTIAL_PAIR=TMDS_DATA_2
R9707 182 1% 1/10W MF-LF 402
93 TMDS_DATA_P<2> — DIFFERENTIAL_PAIR=TMDS_DATA_2
L9702 CRITICAL SYM_VER-1 2012M 90-OHM-300MA
TMDS_CONN_DN<2> — DIFFERENTIAL_PAIR=TMDS_CONN_D2 97
TMDS_CONN_DP<2> — DIFFERENTIAL_PAIR=TMDS_CONN_D2 97
NO_TEST=TRUE

93 TMDS_CLK_N — DIFFERENTIAL_PAIR=TMDS_CLK
R9716 90.9 1% 1/10W MF-LF 402
C9700 22PF 5% 50V CERM 402
TMDS_CK_TERM
MIN_LINE_WIDTH=0.3MM
MIN_NECK_WIDTH=0.2MM
NO_TEST=TRUE
R9717 90.9 1% 1/10W MF-LF 402
93 TMDS_CLK_P — DIFFERENTIAL_PAIR=TMDS_CLK
L9703 165-OHM SM-LF CRITICAL SYM_VER-1
TMDS_CONN_CLKN — DIFFERENTIAL_PAIR=TMDS_CONN_CLK 97
TMDS_CONN_CLKP — DIFFERENTIAL_PAIR=TMDS_CONN_CLK 97
NO_TEST=TRUE

DVI DDC CURRENT LIMIT

(55mA requirement per DVI spec)

CRITICAL
F9710 0.5AMP-13.2V SM-LF
88 =PP5V_S0_DVI_DDC
PP5V_S0_DDC_FUSE VOLTAGE=5V MIN_LINE_WIDTH=0.38 mm MIN_NECK_WIDTH=0.25 mm
L9710 400-OHM-EMI SM-1
PP5V_S0_DDC VOLTAGE=5V MIN_LINE_WIDTH=0.38 mm MIN_NECK_WIDTH=0.25 mm

J9710 MINI-DVI F-ST-SM4

97 DVI_HPD_UF	25	1	TMDS_CONN_DP<2> 97
	17	9	
97 DVI_DDC_CLK_UF	26	2	TMDS_CONN_DN<2> 97
97 DVI_DDC_DATA_UF	18	10	
	27	3	TMDS_CONN_DP<1> 97
	19	11	
	28	4	TMDS_CONN_DN<1> 97
97 VGA_B	20	12	
97 VGA_HSYNC	29	5	TMDS_CONN_DP<0> 97
		13	
	30	6	TMDS_CONN_DN<0> 97
97 VGA_G	22	14	
97 VGA_VSYNC	31	7	TMDS_CONN_CLKP 97
		15	
	32	8	TMDS_CONN_CLKN 97
97 VGA_R	24	16	
	33	34	GND_CHASSIS_VGA 6

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
740S0044	740S0028		F9710	FUSE

3V LEVEL SHIFTERS

88 75 6 PP5V_S0
88 =PP3V3_DDC_DVI

R9710 4.7K 5% 1/16W MF-LF 402
R9712 4.7K 5% 1/16W MF-LF 402
R9720 10K 5% 1/16W MF-LF 402
Q9711 2N7002DW-X-F SOT-363
R9711 100 5% 1/16W MF-LF 402
97 DVI_DDC_CLK_UF — DVI_DDC_CLK — GPU_DDC_A_CLK 93
C9711 100pF 5% 50V CERM 402
R9721 10K 5% 1/16W MF-LF 402
Q9711 2N7002DW-X-F SOT-363
R9713 100 5% 1/16W MF-LF 402
97 DVI_DDC_DATA_UF — DVI_DDC_DATA — GPU_DDC_A_DATA 93
C9713 100pF 5% 50V CERM 402
R9714 20K 5% 1/16W MF-LF 402
97 DVI_HPD_UF — GPU_HPD 93
C9710 0.01uF 20% 50V CERM 603
C9714 100pF 5% 50V CERM 402
R9722 100K 5% 1/16W MF-LF 402
D9700 CASE425 MMSZ4681XXG

ANALOG FILTERING

PLACE CLOSE TO CONNECTOR

93 GPU_B2 — FL9740 LCFILTER CRITICAL SM-220MHZ-LF — VGA_B 97
R9740 75 1% 1/10W MF-LF 402
C9740 3.3pF 0.25% 50V CERM 402
93 GPU_G2 — FL9741 LCFILTER CRITICAL SM-220MHZ-LF — VGA_G 97
R9741 75 1% 1/10W MF-LF 402
C9741 3.3pF 0.25% 50V CERM 402
93 GPU_R2 — FL9742 LCFILTER CRITICAL SM-220MHZ-LF — VGA_R 97
R9742 75 1% 1/10W MF-LF 402
C9742 3.3pF 0.25% 50V CERM 402

VGA SYNC BUFFERS

97 93 91 88 6 =PP3V3_S0_GPU
C9750 0.1UF 20% 10V CERM 402
U9750 74AHC1G32
93 GPU_V2SYNC — SM-LF — GPU_VSYNC_BUF
R9750 33 5% 1/10W MF-LF 402 — VGA_VSYNC 97

97 93 91 88 6 =PP3V3_S0_GPU
C9751 0.1UF 20% 10V CERM 402
U9751 74AHC1G32
93 GPU_H2SYNC — SM-LF — GPU_HSYNC_BUF
R9751 33 5% 1/10W MF-LF 402 — VGA_HSYNC 97

PLACE R9750 & R9751 CLOSE TO DVI CONNECTOR

External Display Conns

SYNC_MASTER=BOZEMAN SYNC_DATE=04/14/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7148	13

SCALE: NONE SHT 97 OF 110

Title: Basenet Report
Design: m38a
Date: Jun 21 19:41:15 2006

Base nets and synonyms for m38a_lib.M38A(@m38a_lib.m38a(sch_1))

Base Signal	Synonyms	Location([Zone][dir])
0V7_REF	0V7_REF - @m38a_lib.M38A	79A3
1V0_REF	1V0_REF - @m38a_lib.M38A	79A5 80A5 81A5 81B3
1V2REG_BOOT	1V2REG_BOOT - @m38a_lib.M38A	77B5
1V2REG_ITH	1V2REG_ITH - @m38a_lib.M38A	77B6
1V2REG_ITH_RC	1V2REG_ITH_RC - @m38a_lib.M38A	77B6
1V2REG_MODE	1V2REG_MODE - @m38a_lib.M38A	77B6
1V2REG_PGOOD	1V2REG_PGOOD - @m38a_lib.M38A	77B5
1V2REG_RT	1V2REG_RT - @m38a_lib.M38A	77B6
1V2REG_RUNSS	1V2REG_RUNSS - @m38a_lib.M38A	77B6
1V2REG_SGND	1V2REG_SGND - @m38a_lib.M38A	77A8
1V2REG_SW	1V2REG_SW - @m38a_lib.M38A	77B5
1V2REG_SW_FIL	1V2REG_SW_FIL - @m38a_lib.M38A	77B4
1V2REG_VBIAS	1V2REG_VBIAS - @m38a_lib.M38A	77B6
1V2REG_VFB	1V2REG_VFB - @m38a_lib.M38A	77B6
1V3_REF	1V3_REF - @m38a_lib.M38A	80B3
1V05REG_NB_BOOT	1V05REG_NB_BOOT - @m38a_lib.M38A	81C6
1V05REG_NB_BOOT_R	1V05REG_NB_BOOT_R - @m38a_lib.M38A	81C5
1V05REG_NB_COMP	1V05REG_NB_COMP - @m38a_lib.M38A	81C6
1V05REG_NB_COMP_R	1V05REG_NB_COMP_R - @m38a_lib.M38A	81C5
1V05REG_NB_FB	1V05REG_NB_FB - @m38a_lib.M38A	81C5
1V05REG_NB_FB_R	1V05REG_NB_FB_R - @m38a_lib.M38A	81C3
1V05REG_NB_FS_DIS	1V05REG_NB_FS_DIS - @m38a_lib.M38A	81C7
1V05REG_NB_GND	1V05REG_NB_GND - @m38a_lib.M38A	81B7
1V05REG_NB_LDO_DR	1V05REG_NB_LDO_DR - @m38a_lib.M38A	81C7
1V05REG_NB_LDO_FB	1V05REG_NB_LDO_FB - @m38a_lib.M38A	81C7
1V05REG_NB_LGATE	1V05REG_NB_LGATE - @m38a_lib.M38A	81C6
1V05REG_NB_PVCC5	1V05REG_NB_PVCC5 - @m38a_lib.M38A	81D7
1V05REG_NB_SNUB	1V05REG_NB_SNUB - @m38a_lib.M38A	81C3
1V05REG_NB_SWITCHNODE	1V05REG_NB_SWITCHNODE - @m38a_lib.M38A	81C5
1V05REG_NB_UGATE	1V05REG_NB_UGATE - @m38a_lib.M38A	81D6
1V05REG_NB_VCC5	1V05REG_NB_VCC5 - @m38a_lib.M38A	81D7
1V5REG_PCIE_BOOT	1V5REG_PCIE_BOOT - @m38a_lib.M38A	80C6
1V5REG_PCIE_BOOT_R	1V5REG_PCIE_BOOT_R - @m38a_lib.M38A	80C5
1V5REG_PCIE_COMP	1V5REG_PCIE_COMP - @m38a_lib.M38A	80C6
1V5REG_PCIE_COMP_R	1V5REG_PCIE_COMP_R - @m38a_lib.M38A	80C5
1V5REG_PCIE_FB	1V5REG_PCIE_FB - @m38a_lib.M38A	80C5
1V5REG_PCIE_FB_R	1V5REG_PCIE_FB_R - @m38a_lib.M38A	80C3
1V5REG_PCIE_FS_DIS	1V5REG_PCIE_FS_DIS - @m38a_lib.M38A	80C7
1V5REG_PCIE_GND	1V5REG_PCIE_GND - @m38a_lib.M38A	80B7
1V5REG_PCIE_LDO_DR	1V5REG_PCIE_LDO_DR - @m38a_lib.M38A	80C7
1V5REG_PCIE_LDO_FB	1V5REG_PCIE_LDO_FB - @m38a_lib.M38A	80C7
1V5REG_PCIE_LGATE	1V5REG_PCIE_LGATE - @m38a_lib.M38A	80C6
1V5REG_PCIE_PVCC5	1V5REG_PCIE_PVCC5 - @m38a_lib.M38A	80D7
1V5REG_PCIE_SNUB	1V5REG_PCIE_SNUB - @m38a_lib.M38A	80C3
1V5REG_PCIE_SWITCHNODE	1V5REG_PCIE_SWITCHNODE - @m38a_lib.M38A	80C5
1V5REG_PCIE_UGATE	1V5REG_PCIE_UGATE - @m38a_lib.M38A	80D6
1V5REG_PCIE_VCC5	1V5REG_PCIE_VCC5 - @m38a_lib.M38A	80D7
1V6_REF	1V6_REF - @m38a_lib.M38A	79B3
1V8REG_DDR_BOOT	1V8REG_DDR_BOOT - @m38a_lib.M38A	79D6
1V8REG_DDR_BOOT_R	1V8REG_DDR_BOOT_R - @m38a_lib.M38A	79D5
1V8REG_DDR_COMP	1V8REG_DDR_COMP - @m38a_lib.M38A	79C6
1V8REG_DDR_COMP_R	1V8REG_DDR_COMP_R - @m38a_lib.M38A	79C5
1V8REG_DDR_FB	1V8REG_DDR_FB - @m38a_lib.M38A	79C5
1V8REG_DDR_FB_R	1V8REG_DDR_FB_R - @m38a_lib.M38A	79C3
1V8REG_DDR_FS_DIS	1V8REG_DDR_FS_DIS - @m38a_lib.M38A	79C7
1V8REG_DDR_GND	1V8REG_DDR_GND - @m38a_lib.M38A	79C7
1V8REG_DDR_LDO_DR	1V8REG_DDR_LDO_DR - @m38a_lib.M38A	79C7
1V8REG_DDR_LDO_FB	1V8REG_DDR_LDO_FB - @m38a_lib.M38A	79C7
1V8REG_DDR_LGATE	1V8REG_DDR_LGATE - @m38a_lib.M38A	79C6
1V8REG_DDR_PVCC5	1V8REG_DDR_PVCC5 - @m38a_lib.M38A	79D7
1V8REG_DDR_SNUB	1V8REG_DDR_SNUB - @m38a_lib.M38A	79C3
1V8REG_DDR_SWITCHNODE	1V8REG_DDR_SWITCHNODE - @m38a_lib.M38A	79C5
1V8REG_DDR_UGATE	1V8REG_DDR_UGATE - @m38a_lib.M38A	79D6
1V8REG_DDR_VCC5	1V8REG_DDR_VCC5 - @m38a_lib.M38A	79D7
1V8REG_GPU_BOOT	1V8REG_GPU_BOOT - @m38a_lib.M38A	78C6
1V8REG_GPU_BOOT_R	1V8REG_GPU_BOOT_R - @m38a_lib.M38A	78C5
1V8REG_GPU_COMP	1V8REG_GPU_COMP - @m38a_lib.M38A	78B6
1V8REG_GPU_COMP_R	1V8REG_GPU_COMP_R - @m38a_lib.M38A	78B5
1V8REG_GPU_FB	1V8REG_GPU_FB - @m38a_lib.M38A	78B5
1V8REG_GPU_FB_R	1V8REG_GPU_FB_R - @m38a_lib.M38A	78B3
1V8REG_GPU_FS_DIS	1V8REG_GPU_FS_DIS - @m38a_lib.M38A	78B7
1V8REG_GPU_GND	1V8REG_GPU_GND - @m38a_lib.M38A	78B7
1V8REG_GPU_LDO_DR	1V8REG_GPU_LDO_DR - @m38a_lib.M38A	78C7
1V8REG_GPU_LDO_FB	1V8REG_GPU_LDO_FB - @m38a_lib.M38A	78B7
1V8REG_GPU_LGATE	1V8REG_GPU_LGATE - @m38a_lib.M38A	78B6
1V8REG_GPU_PVCC5	1V8REG_GPU_PVCC5 - @m38a_lib.M38A	78C7
1V8REG_GPU_SNUB	1V8REG_GPU_SNUB - @m38a_lib.M38A	78B3
1V8REG_GPU_SWITCHNODE	1V8REG_GPU_SWITCHNODE - @m38a_lib.M38A	78B5
1V8REG_GPU_UGATE	1V8REG_GPU_UGATE - @m38a_lib.M38A	78C6
1V8REG_GPU_VCC5	1V8REG_GPU_VCC5 - @m38a_lib.M38A	78C7
2V5REG_ITH	2V5REG_ITH - @m38a_lib.M38A	77D2
2V5REG_ITH_RC	2V5REG_ITH_RC - @m38a_lib.M38A	77D2
2V5REG_MODE	2V5REG_MODE - @m38a_lib.M38A	77D3
2V5REG_RT	2V5REG_RT - @m38a_lib.M38A	77D3
2V5REG_SGND	2V5REG_SGND - @m38a_lib.M38A	77C2
2V5REG_SW	2V5REG_SW - @m38a_lib.M38A	77D2
2V5REG_VFB	2V5REG_VFB - @m38a_lib.M38A	77D2
5V_REG_IN	5V_REG_IN - @m38a_lib.M38A	68A4
=I2C_HD_TEMP_SCL	=I2C_HD_TEMP_SCL - @m38a_lib.M38A	59C1 66B6
	=I2C_ODD_TEMP_SCL - @m38a_lib.M38A	59C1 66B4
	=SMB_THRM_CLK - @m38a_lib.M38A	10C3 59C1
	SMB_B_S0_CLK - @m38a_lib.M38A	58B5 59C2 59D1
	SMB_GPU_NB_THRM_CLK - @m38a_lib.M38A	59C1 61C3
	SMB_B_S0_CLK - @m38a_lib.M38A	58B5 59C2 59D1
	=SMB_THRM_CLK - @m38a_lib.M38A	10C3 59C1
	=I2C_ODD_TEMP_SCL - @m38a_lib.M38A	59C1 66B4
=I2C_HD_TEMP_SDA	=I2C_HD_TEMP_SDA - @m38a_lib.M38A	59C1 66B6
	=I2C_ODD_TEMP_SDA - @m38a_lib.M38A	59C1 66B4
	=SMB_THRM_DATA - @m38a_lib.M38A	10C3 59C1
	SMB_B_S0_DATA - @m38a_lib.M38A	58B5 59C2 59D1
	SMB_GPU_NB_THRM_DATA - @m38a_lib.M38A	59C1 61C3
	SMB_B_S0_DATA - @m38a_lib.M38A	58B5 59C2 59D1
	=SMB_THRM_DATA - @m38a_lib.M38A	10C3 59C1
	=I2C_ODD_TEMP_SDA - @m38a_lib.M38A	59C1 66B4
=I2C_MEM_SCL	=I2C_MEM_SCL - @m38a_lib.M38A	27D6 28A6 29A6
	=SMB_AIRPORT_CLK - @m38a_lib.M38A	27D6 53B4
	SMB_CK410_CLK - @m38a_lib.M38A	27D6 33B6
	SMB_CLK - @m38a_lib.M38A	23D5 27B8 27D7
	SMB_CK410_CLK - @m38a_lib.M38A	27D6 33B6
	=SMB_AIRPORT_CLK - @m38a_lib.M38A	27D6 53B4
=I2C_MEM_SDA	=I2C_MEM_SDA - @m38a_lib.M38A	27D6 28A6 29A6
	=SMB_AIRPORT_DATA - @m38a_lib.M38A	27C6 53B4
	SMB_CK410_DATA - @m38a_lib.M38A	27D6 33B6
	SMB_DATA - @m38a_lib.M38A	23D5 27B8 27D7
	SMB_CK410_DATA - @m38a_lib.M38A	27D6 33B6
	=SMB_AIRPORT_DATA - @m38a_lib.M38A	27C6 53B4
=PP0V9_S0_MEMVTT_LDO	=PP0V9_S0_MEMVTT_LDO - @m38a_lib.M38A	6D4 31B3
	=PP0V9_S0_MEM_TERM - @m38a_lib.M38A	6D4 30D4
	PP0V9_S0 - @m38a_lib.M38A	6D6 79A3
	=PP0V9_S0_MEM_TERM - @m38a_lib.M38A	6D4 30D4
=PP1V2_S0_GPU_VDDPLL	=PP1V2_S0_GPU_VDDPLL - @m38a_lib.M38A	88C6 91B8
	=PPVIO_S0_PCIE - @m38a_lib.M38A	84A2 88C6
	=PP1V2_S0_REG - @m38a_lib.M38A	77A3 88C6
	=PP1V2_S0_PCIE_GPU_PVDD - @m38a_lib.M38A	84C8 88D6
	=PP1V2_S0_PCIE_GPU_VDDR - @m38a_lib.M38A	84C8 88D6
	PP1V2_GPU_IO_S0 - @m38a_lib.M38A	88D8
	=PPVIO_S0_PCIE - @m38a_lib.M38A	84A2 88C6
	=PP1V2_S0_REG - @m38a_lib.M38A	77A3 88C6
	=PP1V2_S0_PCIE_GPU_VDDR - @m38a_lib.M38A	84C8 88D6
	=PP1V2_S0_PCIE_GPU_PVDD - @m38a_lib.M38A	84C8 88D6
=PP1V2_S3_ENET	=PP1V2_S3_ENET - @m38a_lib.M38A	41A8 41D6 42B5
	PP1V2_S3_ENET - @m38a_lib.M38A	42B5
=PP1V2_S3_LAN	=PP1V2_S3_LAN - @m38a_lib.M38A	6D3 42B8
	PP1V2_S3 - @m38a_lib.M38A	6D4 77B3
=PP1V8_S0_FB_VDD	=PP1V8_S0_FB_VDD - @m38a_lib.M38A	88B6 89D5 89D8 90D5 90D8
	=PP1V8_S0_FB_VDDQ - @m38a_lib.M38A	88B6 89D5 89D8 90D5 90D8
	=PP1V8R2V0_S0_FB_GPU - @m38a_lib.M38A	86B8 87A5 87A8 87B5 87B8 88B6
	PP1V8_S0 - @m38a_lib.M38A	78B2 88B6
	=PP1V8R3V3_S0_GPU_VDDR5 - @m38a_lib.M38A	88B6 91B7
	=PP1V8R3V3_S0_GPU_VDDR4 - @m38a_lib.M38A	88B6 91B7
	PP1V8_S0 - @m38a_lib.M38A	78B2 88B6
	PP1V8R2V0_S0_FB_GPU - @m38a_lib.M38A	88B8
	=PP1V8_S0_FB_VDDQ - @m38a_lib.M38A	88B6 89D5 89D8 90D5 90D8
	=PP1V8R3V3_S0_GPU_VDDR5 - @m38a_lib.M38A	88B6 91B7
	=PP1V8R3V3_S0_GPU_VDDR4 - @m38a_lib.M38A	88B6 91B7
	=PP1V8R2V0_S0_FB_GPU - @m38a_lib.M38A	86B8 87A5 87A8 87B5 87B8 88B6
=PP1V8_S3_MEM_NB	=PP1V8_S3_MEM_NB - @m38a_lib.M38A	6D3 6D3 14C2 16B6 19B8 19D7
	=PP1V8_S0_MEMVTT - @m38a_lib.M38A	6D3 31C7
	PP1V8_S3 - @m38a_lib.M38A	5D2 6D4 79C2
	=PP1V8_S3_MEM - @m38a_lib.M38A	5C4 6D3 28B2 28C8 28D3 28D6 29B2 29D3 29D6
	PP1V8_S3 - @m38a_lib.M38A	5D2 6D4 79C2
	=PP1V8_S3_MEM - @m38a_lib.M38A	5C4 6D3 28B2 28C8 28D3 28D6 29B2 29D3 29D6
	=PP1V8_S0_MEMVTT - @m38a_lib.M38A	6D3 31C7
=PP2V5_S0_NB_VCCA_3GBG	=PP2V5_S0_NB_VCCA_3GBG - @m38a_lib.M38A	6B4 17D6 19A8 19C7
	=PP2V5_S0_GPU - @m38a_lib.M38A	88B6 93C8
	PP2V5_S0 - @m38a_lib.M38A	6B6 11B8 11C8 77D1 88C8
	=PP2V5_S0_GPU_VDD25 - @m38a_lib.M38A	88B6 91C6
	=PP2V5_S0_GPU_VDDC_CT - @m38a_lib.M38A	88B6 91C6
	=PP2V5_S0_GPU_PVDD - @m38a_lib.M38A	88B6 91A8
	PP2V5_S0 - @m38a_lib.M38A	6B6 11B8 11C8 77D1 88C8
	=PP2V5_S0_GPU_VDDC_CT - @m38a_lib.M38A	88B6 91C6
	=PP2V5_S0_GPU_VDD25 - @m38a_lib.M38A	88B6 91C6
	=PP2V5_S0_GPU_PVDD - @m38a_lib.M38A	88B6 91A8
	=PP2V5_S0_GPU - @m38a_lib.M38A	88B6 93C8
=PP2V5_S3_ENET	=PP2V5_S3_ENET - @m38a_lib.M38A	41D5 41D6 42C4
	PP2V5_S3_ENET - @m38a_lib.M38A	42C4 43D8
=PP3V3_S0_NB	=PP3V3_S0_NB - @m38a_lib.M38A	6A4 14C7 14D6 19C7 20A4 20B4 20B4
	=PP3V3_DDC_DVI - @m38a_lib.M38A	88C6 97D2
	=PP3V3_DDC_LCD - @m38a_lib.M38A	88C6 94A7 94C7
	=PP3V3_GPU - @m38a_lib.M38A	88C6 94B3
	PP3V3_S0 - @m38a_lib.M38A	6B6 6D8 10D2 11B8 26B7 26C6 41D8 59D3 61C3 76D6 88C8
	=PP3V3_S0_GPU - @m38a_lib.M38A	6A7 88C6 91D2 93A1 97A5 97B5
	=PP3V3_S0_GPU_VDDR3 - @m38a_lib.M38A	88C6 88D3 91C6
	=PP3V3_S0_LCD - @m38a_lib.M38A	88C6 94C8
	=PP3V3_S0_2V5REG - @m38a_lib.M38A	6A4 77D4
	=PP3V3_S0_AIRPORT - @m38a_lib.M38A	6A4 53C2
	=PP3V3_S0_PCI - @m38a_lib.M38A	6A4 44D5
	=PP3V3_S0_AUDIO - @m38a_lib.M38A	6A4 68A5 68D7 72A6 72C8 72D5 73B8 74B5 74C5 74D6
	=PP3V3_S0_IMVP - @m38a_lib.M38A	6A4 75D8
	=PP3V3_S0_CK410 - @m38a_lib.M38A	6A4 33C8 33D3 33D8 34D4
	=PPSPD_S0_MEM - @m38a_lib.M38A	6A4 28A7 29A3 29A7
	=PP3V3_S0_TPM - @m38a_lib.M38A	6A4 67C7 67D4
	=PP3V3_S0_SB_3V3_1V5_VCCHDA - @m38a_lib.M38A	6A4 24C3 25C4
	=PP3V3_S0_ODD_TSENS - @m38a_lib.M38A	6A4 66B4
	=PP3V3_S0_HD_TSENS - @m38a_lib.M38A	6B4 66B5
	=PP3V3_S0_FAN - @m38a_lib.M38A	6B4 59A8 59B7 65B7 65C7 66C7
	=PP3V3_S0_PATA - @m38a_lib.M38A	6B4 38D3
	=PP3V3_S0_SB_PM - @m38a_lib.M38A	6B4 26D4
	=PP3V3_S0_SB_PCI - @m38a_lib.M38A	6B4 26D1
	=PP3V3_S0_SB_VCC3_3_IDE - @m38a_lib.M38A	6B4 24C3 25B3
	=PP3V3_S0_SB_VCC3_3_PCI - @m38a_lib.M38A	6B4 24B3 25A3
	=PP3V3_S0_SB_VCC3_3 - @m38a_lib.M38A	6B4 24B5 24B5 25B8 25C6
	=PP3V3_S0_NB_VCC_HV - @m38a_lib.M38A	6B4 17C6 19A8 19C7
	=PP3V3_S0_SB_GPIO - @m38a_lib.M38A	6B4 21C3 21D3 23B3 23D5
	=PP3V3_S0_SB_VCCLAN3_3 - @m38a_lib.M38A	6A4 24D3 25D3
	=PP3V3_S0_SB - @m38a_lib.M38A	6B4 22B5 25D8 27C6
	PP3V3_S0 - @m38a_lib.M38A	6B6 6D8 10D2 11B8 26B7 26C6 41D8 59D3 61C3 76D6 88C8
	=PPSPD_S0_MEM - @m38a_lib.M38A	6A4 28A7 29A3 29A7
	=PP3V3_S0_TPM - @m38a_lib.M38A	6A4 67C7 67D4
	=PP3V3_S0_SB_VCCLAN3_3 - @m38a_lib.M38A	6A4 24D3 25D3
	=PP3V3_S0_SB_VCC3_3_PCI - @m38a_lib.M38A	6B4 24B3 25A3
	=PP3V3_S0_SB_VCC3_3_IDE - @m38a_lib.M38A	6B4 24C3 25B3
	=PP3V3_S0_SB_VCC3_3 - @m38a_lib.M38A	6B4 24B5 24B5 25B8 25C6
	=PP3V3_S0_SB_PM - @m38a_lib.M38A	6B4 26D4
	=PP3V3_S0_SB_PCI - @m38a_lib.M38A	6B4 26D1
	=PP3V3_S0_SB_GPIO - @m38a_lib.M38A	6B4 21C3 21D3 23B3 23D5
	=PP3V3_S0_SB_3V3_1V5_VCCHDA - @m38a_lib.M38A	6A4 24C3 25C4
	=PP3V3_S0_SB - @m38a_lib.M38A	6B4 22B5 25D8 27C6
	=PP3V3_S0_PCI - @m38a_lib.M38A	6A4 44D5
	=PP3V3_S0_PATA - @m38a_lib.M38A	6B4 38D3
	=PP3V3_S0_ODD_TSENS - @m38a_lib.M38A	6A4 66B4
	=PP3V3_S0_NB_VCC_HV - @m38a_lib.M38A	6B4 17C6 19A8 19C7
	=PP3V3_S0_NB_TVDAC - @m38a_lib.M38A	6B4 19C7
	=PP3V3_S0_NB_PM - @m38a_lib.M38A	6B4
	=PP3V3_S0_LCD - @m38a_lib.M38A	88C6 94C8
	=PP3V3_S0_IMVP - @m38a_lib.M38A	6A4 75D8
	=PP3V3_S0_HD_TSENS - @m38a_lib.M38A	6B4 66B5
	=PP3V3_S0_GPU_CLOCKS - @m38a_lib.M38A	88C6
	=PP3V3_S0_GPUBBP - @m38a_lib.M38A	88C6
	=PP3V3_S0_GPUBBN - @m38a_lib.M38A	88C6
	=PP3V3_S0_GPUBBCTL - @m38a_lib.M38A	88C6
	=PP3V3_S0_GPU - @m38a_lib.M38A	6A7 88C6 91D2 93A1 97A5 97B5
	=PP3V3_S0_FAN - @m38a_lib.M38A	6B4 59A8 59B7 65B7 65C7 66C7
	=PP3V3_S0_CK410 - @m38a_lib.M38A	6A4 33C8 33D3 33D8 34D4
	=PP3V3_S0_AUDIO - @m38a_lib.M38A	6A4 68A5 68D7 72A6 72C8 72D5 73B8 74B5 74C5 74D6
	=PP3V3_S0_AIRPORT - @m38a_lib.M38A	6A4 53C2
	=PP3V3_S0_2V5REG - @m38a_lib.M38A	6A4 77D4
	=PP3V3_GPU - @m38a_lib.M38A	88C6 94B3
	=PP3V3_DDC_LCD - @m38a_lib.M38A	88C6 94A7 94C7
	=PP3V3_DDC_DVI - @m38a_lib.M38A	88C6 97D2
=PP3V3_S3_1V2REG	=PP3V3_S3_1V2REG - @m38a_lib.M38A	6D3 77C7
	PP3V3_S3 - @m38a_lib.M38A	6A7 6D4 53C4 59C8 59D3 83B3
	=PP3V3_S3_BT - @m38a_lib.M38A	6D3 47B2
	=PP3V3_S3_TPM - @m38a_lib.M38A	6D3 67C2
	=PP3V3_S3_ENET - @m38a_lib.M38A	6D3 41A5 41B3 41C3 41D6 41D8 42D8
	PP3V3_S3 - @m38a_lib.M38A	6A7 6D4 53C4 59C8 59D3 83B3
	=PP3V3_S3_VGASYNC - @m38a_lib.M38A	6C3
	=PP3V3_S3_USB - @m38a_lib.M38A	6C3
	=PP3V3_S3_TPM - @m38a_lib.M38A	6D3 67C2
	=PP3V3_S3_ENET - @m38a_lib.M38A	6D3 41A5 41B3 41C3 41D6 41D8 42D8
	=PP3V3_S3_BT - @m38a_lib.M38A	6D3 47B2
=PP3V3_S5_DEBUG	=PP3V3_S5_DEBUG - @m38a_lib.M38A	6D1 60D4
	=PP3V3_S5_ROM - @m38a_lib.M38A	6D1 63D4
	PP3V3_S5 - @m38a_lib.M38A	5D2 6A8 6C8 6D2 6D8 6D8 11D8 26C1 26C4 26C4 59A8 65B7 65D7 66D7 76D2 77C8 77D5 77D6 77D6 77D8 79A3 79A5 79B3 80A5 80B3 81A5 81A5 83C3
	=PP3V3_S5_SMC - @m38a_lib.M38A	6D1 58C2 58D3 58D4 59A4 59A5 59C4 59D3 59D8
	=PP3V3_S5_FW - @m38a_lib.M38A	6D1 44A6 44B2 44D5 44D7 45D6 46A8
	=PP3V3_S5_SB_IO - @m38a_lib.M38A	6D1 22C6 27C6
	=PP3V3_S5_SB_3V3_1V5_VCCSUSHDA - @m38a_lib.M38A	6D1 24C3
	=PP3V3_S5_SB_VCCSUS3_3_USB - @m38a_lib.M38A	6D1 24B3 25D1
	=PP3V3_S5_SB_VCCSUS3_3 - @m38a_lib.M38A	6D1 24A5 24B3 25B6 25D1
	=PP3V3_S5_SB_PM - @m38a_lib.M38A	6D1 11B5 23D1
	=PP3V3_S5_SB_USB - @m38a_lib.M38A	6D1 22D8
	=PP3V3_S5_SB - @m38a_lib.M38A	6D1 23A7 23B3 23B7 23D4 23D8 25C8 26D8
	PP3V3_S5 - @m38a_lib.M38A	5D2 6A8 6C8 6D2 6D8 6D8 11D8 26C1 26C4 26C4 59A8 65B7 65D7 66D7 76D2 77C8 77D5 77D6 77D6 77D8 79A3 79A5 79B3 80A5 80B3 81A5 81A5 83C3
	=PP3V3_S5_SMC - @m38a_lib.M38A	6D1 58C2 58D3 58D4 59A4 59A5 59C4 59D3 59D8
	=PP3V3_S5_SB_VCCSUS3_3_USB - @m38a_lib.M38A	6D1 24B3 25D1
	=PP3V3_S5_SB_VCCSUS3_3 - @m38a_lib.M38A	6D1 24A5 24B3 25B6 25D1
	=PP3V3_S5_SB_USB - @m38a_lib.M38A	6D1 22D8
	=PP3V3_S5_SB_PM - @m38a_lib.M38A	6D1 11B5 23D1
	=PP3V3_S5_SB_IO - @m38a_lib.M38A	6D1 22C6 27C6
	=PP3V3_S5_SB_3V3_1V5_VCCSUSHDA - @m38a_lib.M38A	6D1 24C3
	=PP3V3_S5_SB - @m38a_lib.M38A	6D1 23A7 23B3 23B7 23D4 23D8 25C8 26D8
	=PP3V3_S5_ROM - @m38a_lib.M38A	6D1 63D4
	=PP3V3_S5_FW - @m38a_lib.M38A	6D1 44A6 44B2 44D5 44D7 45D6 46A8
=PP5V_S0_AUDIO	=PP5V_S0_AUDIO - @m38a_lib.M38A	6A4 68A5
	PP5V_S0_AUDIO - @m38a_lib.M38A	6A5
=PP5V_S0_DEBUG	=PP5V_S0_DEBUG - @m38a_lib.M38A	6A4 60D4
	=PP5V_S0_DVI_DDC - @m38a_lib.M38A	88A6 97D6
	=PP5V_S0_GPUISENS - @m38a_lib.M38A	85D2 88A6
	PP5V_S0 - @m38a_lib.M38A	6A6 6D8 75D7 88B8 97D3
	=PP5V_S0_SB - @m38a_lib.M38A	6A4 25D8
	=PP5V_S0_PATA - @m38a_lib.M38A	6A4 38C4 38D3
	PP5V_S0 - @m38a_lib.M38A	6A6 6D8 75D7 88B8 97D3
	=PP5V_S0_SB - @m38a_lib.M38A	6A4 25D8
	=PP5V_S0_PATA - @m38a_lib.M38A	6A4 38C4 38D3
	=PP5V_S0_GPUISENS - @m38a_lib.M38A	85D2 88A6
	=PP5V_S0_GPUBBCTL - @m38a_lib.M38A	88B6
	=PP5V_S0_DVI_DDC - @m38a_lib.M38A	88A6 97D6
=PP5V_S0_GPUVCORE	=PP5V_S0_GPUVCORE - @m38a_lib.M38A	85D7 88D6
	GPUVCORE_VCC - @m38a_lib.M38A	88D6
=PP5V_S0_MEMVTT	=PP5V_S0_MEMVTT - @m38a_lib.M38A	6C3 31C6
	PP5V_S3 - @m38a_lib.M38A	6C4 60B6 83C3
	=PP5V_S3_BNDI - @m38a_lib.M38A	6C3 47D3
	=PP5V_S3_USB - @m38a_lib.M38A	6C3 47C8
	PP5V_S3 - @m38a_lib.M38A	6C4 60B6 83C3
	=PP5V_S3_USB - @m38a_lib.M38A	6C3 47C8
	=PP5V_S3_BNDI - @m38a_lib.M38A	6C3 47D3
=PP5V_S5_SB	=PP5V_S5_SB - @m38a_lib.M38A	6D1 25C8
	PP5V_S5 - @m38a_lib.M38A	5D2 6D2 6D7 59A5 79B3 79B3 80B3 81B3 83C3
=PP12V_GPU	=PP12V_GPU - @m38a_lib.M38A	88B6 94C3 94D7
	PP12V_S0 - @m38a_lib.M38A	6A6 6D8 88B8
	=PP12V_S0_FAN - @m38a_lib.M38A	6A4 65B6 65D7 66D6
	PP12V_S0 - @m38a_lib.M38A	6A6 6D8 88B8
	=PP12V_S0_FAN - @m38a_lib.M38A	6A4 65B6 65D7 66D6
=PP12V_S0_AUDIO_SPKRAMP	=PP12V_S0_AUDIO_SPKRAMP - @m38a_lib.M38A	6A4 72D8
	PP12V_S0_AUDIO_SPKRAMP - @m38a_lib.M38A	6A5
=PP12V_S5_CPU	=PP12V_S5_CPU - @m38a_lib.M38A	6C1 76D8
	=PPVIN_S0_GPUVCORE - @m38a_lib.M38A	85D7 88B6
	PP12V_S5 - @m38a_lib.M38A	5D2 6C2 6D7 11A8 11C7 11D7 77C8 77D8 78C7 79D7 80D7 81D7 83C5 83C5 88B8
	=PP12V_S5_FW - @m38a_lib.M38A	6C1 46D7
	PP12V_S5 - @m38a_lib.M38A	5D2 6C2 6D7 11A8 11C7 11D7 77C8 77D8 78C7 79D7 80D7 81D7 83C5 83C5 88B8
	=PPVIN_S0_GPUVCORE - @m38a_lib.M38A	85D7 88B6
	=PP12V_S5_FW - @m38a_lib.M38A	6C1 46D7
=PP12V_S5_FW_PHY	=PP12V_S5_FW_PHY - @m38a_lib.M38A	44C2 46D5
	PP12V_FW - @m38a_lib.M38A	46D6
=PPBB_S0_GPU	=PPBB_S0_GPU - @m38a_lib.M38A	86D6 88C6
	=PPVCORE_S0_GPU - @m38a_lib.M38A	86D8 88D6 91A7
	PP1V0R1V2_S0_GPU - @m38a_lib.M38A	59B4 88D8
	=PPVCORE_S0_GPU_REG - @m38a_lib.M38A	85C1 88D6
	PPBB_S0_GPU - @m38a_lib.M38A	88C8
	PP1V0R1V2_S0_GPU - @m38a_lib.M38A	59B4 88D8
	=PPVOUT_S0_GPUBBP_LDO - @m38a_lib.M38A	85A6 88C6
	=PPVCORE_S0_GPU_REG - @m38a_lib.M38A	85C1 88D6
	=PPVCORE_S0_GPU_BBP - @m38a_lib.M38A	85A8 88D6
	=PPVCORE_S0_GPU - @m38a_lib.M38A	86D8 88D6 91A7
=PPVCORE_S0_CPU	=PPVCORE_S0_CPU - @m38a_lib.M38A	6D4 8B6 8D7 8D8 9B8
	PPVCORE_CPU - @m38a_lib.M38A	5D2 6D6 75A4 75D1 76B3
ACZ_BITCLK	ACZ_BITCLK - @m38a_lib.M38A	21C7 68D7
ACZ_RST_L	ACZ_RST_L - @m38a_lib.M38A	21C7 68C7
ACZ_SDATAIN<0>	ACZ_SDATAIN<0> - @m38a_lib.M38A	21C7 68D7
ACZ_SDATAIN_CHIP	ACZ_SDATAIN_CHIP - @m38a_lib.M38A	68C6
ACZ_SDATAOUT	ACZ_SDATAOUT - @m38a_lib.M38A	21C7 68D7
ACZ_SYNC	ACZ_SYNC - @m38a_lib.M38A	21C7 68D7
AIRPORT_CLK100M_PCIE_N	AIRPORT_CLK100M_PCIE_N - @m38a_lib.M38A	34B4 34C2 53C6
AIRPORT_CLK100M_PCIE_P	AIRPORT_CLK100M_PCIE_P - @m38a_lib.M38A	34B4 34C2 53C6
AIRPORT_CONN_CLK	AIRPORT_CONN_CLK - @m38a_lib.M38A	53B5
AIRPORT_CONN_DATA	AIRPORT_CONN_DATA - @m38a_lib.M38A	53B5
AIRPORT_RST_L	AIRPORT_RST_L - @m38a_lib.M38A	6B7 53C5
AIRPORT_WAKE_L	AIRPORT_WAKE_L - @m38a_lib.M38A	53C6
ALL_SYS_PWRGD	ALL_SYS_PWRGD - @m38a_lib.M38A	26D5 58D7 77D4
ALS_GAIN	ALS_GAIN - @m38a_lib.M38A	58B5 59C6
	NC_ALS_GAIN - @m38a_lib.M38A	59C5
ALS_LEFT	ALS_LEFT - @m38a_lib.M38A	58A7 59D5
	TP_ALS_LEFT - @m38a_lib.M38A	59D3
ALS_RIGHT	ALS_RIGHT - @m38a_lib.M38A	58A7 59D5
	TP_ALS_RIGHT - @m38a_lib.M38A	59D3
ATI_DVPCLK	ATI_DVPCLK - @m38a_lib.M38A	91C3 95A6
	TP_ATI_DVPCLK - @m38a_lib.M38A	95A8
ATI_DVPCNTL<0>	ATI_DVPCNTL<0> - @m38a_lib.M38A	91C3 95A6
ATI_DVPCNTL<1>	ATI_DVPCNTL<1> - @m38a_lib.M38A	91B3 95A6
ATI_DVPCNTL<2>	ATI_DVPCNTL<2> - @m38a_lib.M38A	91B3 95A6
ATI_DVPDATA<0>	ATI_DVPDATA<0> - @m38a_lib.M38A	91B3 95B6
ATI_DVPDATA<1>	ATI_DVPDATA<1> - @m38a_lib.M38A	91B3 95B6
ATI_DVPDATA<2>	ATI_DVPDATA<2> - @m38a_lib.M38A	91B3 95B6
ATI_DVPDATA<3>	ATI_DVPDATA<3> - @m38a_lib.M38A	91B3 95B6
ATI_DVPDATA<4>	ATI_DVPDATA<4> - @m38a_lib.M38A	91B3 95B6
ATI_DVPDATA<5>	ATI_DVPDATA<5> - @m38a_lib.M38A	91B3 95B6
ATI_DVPDATA<6>	ATI_DVPDATA<6> - @m38a_lib.M38A	91B3 95B6
ATI_DVPDATA<7>	ATI_DVPDATA<7> - @m38a_lib.M38A	91B3 95B6
ATI_DVPDATA<8>	ATI_DVPDATA<8> - @m38a_lib.M38A	91B3 95B6
ATI_DVPDATA<9>	ATI_DVPDATA<9> - @m38a_lib.M38A	91B3 95B6
ATI_DVPDATA<10>	ATI_DVPDATA<10> - @m38a_lib.M38A	91B3 95B6
ATI_DVPDATA<11>	ATI_DVPDATA<11> - @m38a_lib.M38A	91B3 95B6
ATI_DVPDATA<12>	ATI_DVPDATA<12> - @m38a_lib.M38A	91B3 95B6
ATI_DVPDATA<13>	ATI_DVPDATA<13> - @m38a_lib.M38A	91B3 95C6
ATI_DVPDATA<14>	ATI_DVPDATA<14> - @m38a_lib.M38A	91B3 95C6
ATI_DVPDATA<15>	ATI_DVPDATA<15> - @m38a_lib.M38A	91B3 95C6
ATI_DVPDATA<16>	ATI_DVPDATA<16> - @m38a_lib.M38A	91B3 95C6
ATI_DVPDATA<17>	ATI_DVPDATA<17> - @m38a_lib.M38A	91B3 95C6
ATI_DVPDATA<18>	ATI_DVPDATA<18> - @m38a_lib.M38A	91B3 95C6
ATI_DVPDATA<19>	ATI_DVPDATA<19> - @m38a_lib.M38A	91B3 95C6
ATI_DVPDATA<20>	ATI_DVPDATA<20> - @m38a_lib.M38A	91B3 95C6
ATI_DVPDATA<21>	ATI_DVPDATA<21> - @m38a_lib.M38A	91B3 95C6
ATI_DVPDATA<22>	ATI_DVPDATA<22> - @m38a_lib.M38A	91A3 95C6
ATI_DVPDATA<23>	ATI_DVPDATA<23> - @m38a_lib.M38A	91A3 95C6
ATI_R2SET	ATI_R2SET - @m38a_lib.M38A	93A8 93B5
ATI_RSET	ATI_RSET - @m38a_lib.M38A	93A8 93B5
ATI_TDIODE_N	ATI_TDIODE_N - @m38a_lib.M38A	61C5 91A3
ATI_TDIODE_P	ATI_TDIODE_P - @m38a_lib.M38A	61C5 91A3
ATI_TESTEN	ATI_TESTEN - @m38a_lib.M38A	91A3
ATI_VREFG	ATI_VREFG - @m38a_lib.M38A	91D3
AUDLINDETH	AUDLINDETH - @m38a_lib.M38A	74D5
AUDSAMPCPN	AUDSAMPCPN - @m38a_lib.M38A	72C4
AUDSAMPCPP	AUDSAMPCPP - @m38a_lib.M38A	72C4
AUDSAMPINLN	AUDSAMPINLN - @m38a_lib.M38A	72D6
AUDSAMPINLP	AUDSAMPINLP - @m38a_lib.M38A	72C6
AUDSAMPINRN	AUDSAMPINRN - @m38a_lib.M38A	72C6
AUDSAMPINRP	AUDSAMPINRP - @m38a_lib.M38A	72C6
AUDSAMPOURTP	AUDSAMPOURTP - @m38a_lib.M38A	72C4
AUDSAMPOUTLN	AUDSAMPOUTLN - @m38a_lib.M38A	72C4
AUDSAMPOUTLP	AUDSAMPOUTLP - @m38a_lib.M38A	72C4
AUDSAMPOUTRN	AUDSAMPOUTRN - @m38a_lib.M38A	72C4
AUD_4V5_SHDN_L	AUD_4V5_SHDN_L - @m38a_lib.M38A	68A5
AUD_ANALOG_FILT_1	AUD_ANALOG_FILT_1 - @m38a_lib.M38A	68C4
AUD_ANALOG_FILT_2	AUD_ANALOG_FILT_2 - @m38a_lib.M38A	68C4
AUD_BI_PORT_A_L	AUD_BI_PORT_A_L - @m38a_lib.M38A	68C1 74B8
AUD_BI_PORT_A_R	AUD_BI_PORT_A_R - @m38a_lib.M38A	68C1 74B8
AUD_BI_PORT_B_L	AUD_BI_PORT_B_L - @m38a_lib.M38A	68B2 68C1 74A3
	AUD_BI_PORT_B_R - @m38a_lib.M38A	68B1 68C1
AUD_BI_PORT_C_L	AUD_BI_PORT_C_L - @m38a_lib.M38A	68C7 72D8
AUD_BI_PORT_C_R	AUD_BI_PORT_C_R - @m38a_lib.M38A	68C7 72C8
AUD_BI_PORT_F_L	AUD_BI_PORT_F_L - @m38a_lib.M38A	68C1 74C8
AUD_BI_PORT_F_R	AUD_BI_PORT_F_R - @m38a_lib.M38A	68C1 74C8
AUD_BYPASS	AUD_BYPASS - @m38a_lib.M38A	68C4
AUD_DEBOUNCE	AUD_DEBOUNCE - @m38a_lib.M38A	72B7
AUD_GPIO_0	AUD_GPIO_0 - @m38a_lib.M38A	68C7 72B8

AUD_GPIO_1	AUD_GPIO_1 - @m38a_lib.M38A	68C7 74C5
AUD_GPIO_2	AUD_GPIO_2 - @m38a_lib.M38A	68B7 68C7
AUD_LI_DET_EMI	AUD_LI_DET_EMI - @m38a_lib.M38A	73D6
AUD_LI_DET_H	AUD_LI_DET_H - @m38a_lib.M38A	73D4 74D6
AUD_LI_DET_JACK	AUD_LI_DET_JACK - @m38a_lib.M38A	73D7
AUD_LI_GND_EMI	AUD_LI_GND_EMI - @m38a_lib.M38A	73D6
AUD_LI_GND_JACK	AUD_LI_GND_JACK - @m38a_lib.M38A	73D7
AUD_LI_L	AUD_LI_L - @m38a_lib.M38A	73D4 74C5
AUD_LI_L_EMI	AUD_LI_L_EMI - @m38a_lib.M38A	73D6
AUD_LI_L_JACK	AUD_LI_L_JACK - @m38a_lib.M38A	73D7
AUD_LI_R	AUD_LI_R - @m38a_lib.M38A	73D4 74C5
AUD_LI_R_EMI	AUD_LI_R_EMI - @m38a_lib.M38A	73D6
AUD_LI_R_JACK	AUD_LI_R_JACK - @m38a_lib.M38A	73D7
AUD_LO_DET1_1	AUD_LO_DET1_1 - @m38a_lib.M38A	74A4 74B2
AUD_LO_DET1_INV	AUD_LO_DET1_INV - @m38a_lib.M38A	74B3
AUD_LO_DET2_1	AUD_LO_DET2_1 - @m38a_lib.M38A	74B4
AUD_LO_GND_JACK	AUD_LO_GND_JACK - @m38a_lib.M38A	73B4
AUD_LO_L	AUD_LO_L - @m38a_lib.M38A	73B8 74B5
AUD_LO_L_EMI	AUD_LO_L_EMI - @m38a_lib.M38A	73B7
AUD_LO_L_JACK	AUD_LO_L_JACK - @m38a_lib.M38A	73B4
AUD_LO_R	AUD_LO_R - @m38a_lib.M38A	73A8 74B5
AUD_LO_R_EMI	AUD_LO_R_EMI - @m38a_lib.M38A	73A7
AUD_LO_R_JACK	AUD_LO_R_JACK - @m38a_lib.M38A	73B4
AUD_LO_TIP	AUD_LO_TIP - @m38a_lib.M38A	73B8 74B5
AUD_LO_TIP_EMI	AUD_LO_TIP_EMI - @m38a_lib.M38A	73B7
AUD_LO_TIP_JACK	AUD_LO_TIP_JACK - @m38a_lib.M38A	73B4
AUD_LO_TYPE	AUD_LO_TYPE - @m38a_lib.M38A	73B8 74A5
AUD_LO_TYPE_EMI	AUD_LO_TYPE_EMI - @m38a_lib.M38A	73B7
AUD_LO_TYPE_JACK	AUD_LO_TYPE_JACK - @m38a_lib.M38A	73B4
AUD_MAX9714_CHOLD	AUD_MAX9714_CHOLD - @m38a_lib.M38A	72C4
AUD_MAX9714_VREG	AUD_MAX9714_VREG - @m38a_lib.M38A	72C5
AUD_MIC_INTERCON	AUD_MIC_INTERCON - @m38a_lib.M38A	74A4
AUD_MIC_IN_N	AUD_MIC_IN_N - @m38a_lib.M38A	73C4 74A6
AUD_MIC_IN_N_CONN	AUD_MIC_IN_N_CONN - @m38a_lib.M38A	47C2 73C2
AUD_MIC_IN_N_EMI	AUD_MIC_IN_N_EMI - @m38a_lib.M38A	73C3
AUD_MIC_IN_P	AUD_MIC_IN_P - @m38a_lib.M38A	73C4 74A6
AUD_MIC_IN_P_CONN	AUD_MIC_IN_P_CONN - @m38a_lib.M38A	47C2 73C2
AUD_MIC_IN_P_EMI	AUD_MIC_IN_P_EMI - @m38a_lib.M38A	73C3
AUD_MIC_P1	AUD_MIC_P1 - @m38a_lib.M38A	74A4
AUD_NC_40	AUD_NC_40 - @m38a_lib.M38A	68C4
AUD_NC_43	AUD_NC_43 - @m38a_lib.M38A	68B4
AUD_PORT_A_DET_L	AUD_PORT_A_DET_L - @m38a_lib.M38A	74B2
AUD_PORT_A_L1	AUD_PORT_A_L1 - @m38a_lib.M38A	74B7 74C4 74D4
AUD_PORT_A_L2	AUD_PORT_A_L2 - @m38a_lib.M38A	74B7 74C3 74D3
AUD_PORT_A_R1	AUD_PORT_A_R1 - @m38a_lib.M38A	74B7 74C4 74D4
AUD_PORT_A_R2	AUD_PORT_A_R2 - @m38a_lib.M38A	74B7 74C3 74D3
AUD_PORT_E_DET_L	AUD_PORT_E_DET_L - @m38a_lib.M38A	74B1
AUD_PORT_F_DET_L	AUD_PORT_F_DET_L - @m38a_lib.M38A	74D4
AUD_PORT_F_L1	AUD_PORT_F_L1 - @m38a_lib.M38A	74C7
AUD_PORT_F_R1	AUD_PORT_F_R1 - @m38a_lib.M38A	74C7
AUD_SAMP_FS1	AUD_SAMP_FS1 - @m38a_lib.M38A	72A6 72C5
AUD_SAMP_FS2	AUD_SAMP_FS2 - @m38a_lib.M38A	72A6 72C5
AUD_SAMP_G1	AUD_SAMP_G1 - @m38a_lib.M38A	72A6 72C5
AUD_SAMP_G2	AUD_SAMP_G2 - @m38a_lib.M38A	72A6 72C5
AUD_SAMP_INL_N	AUD_SAMP_INL_N - @m38a_lib.M38A	72C5
AUD_SAMP_INL_P	AUD_SAMP_INL_P - @m38a_lib.M38A	72C5
AUD_SAMP_INR_N	AUD_SAMP_INR_N - @m38a_lib.M38A	72C5
AUD_SAMP_INR_P	AUD_SAMP_INR_P - @m38a_lib.M38A	72C5
AUD_SAMP_SHDN_L	AUD_SAMP_SHDN_L - @m38a_lib.M38A	72C5
AUD_SENSE_A	AUD_SENSE_A - @m38a_lib.M38A	68C1 74C5 74D7
AUD_SENSE_B	AUD_SENSE_B - @m38a_lib.M38A	68C1 74C5 74D6 74D7
AUD_SPDIFIN_JACK	AUD_SPDIFIN_JACK - @m38a_lib.M38A	73D7
AUD_SPDIF_GND_IN	AUD_SPDIF_GND_IN - @m38a_lib.M38A	73C7
AUD_SPDIF_GND_OUT	AUD_SPDIF_GND_OUT - @m38a_lib.M38A	73A3
AUD_SPDIF_IN	AUD_SPDIF_IN - @m38a_lib.M38A	68C1 73D4
AUD_SPDIF_OUT	AUD_SPDIF_OUT - @m38a_lib.M38A	68D1 73B8
AUD_SPDIF_OUT_CHIP	AUD_SPDIF_OUT_CHIP - @m38a_lib.M38A	68D4
AUD_SPKR_OUTL_N	AUD_SPKR_OUTL_N - @m38a_lib.M38A	72C1 73D2
AUD_SPKR_OUTL_P	AUD_SPKR_OUTL_P - @m38a_lib.M38A	72C1 73D2
AUD_SPKR_OUTR_N	AUD_SPKR_OUTR_N - @m38a_lib.M38A	72C1 73D2
AUD_SPKR_OUTR_P	AUD_SPKR_OUTR_P - @m38a_lib.M38A	72C1 73D2
AUD_TYPE_DET_EN	AUD_TYPE_DET_EN - @m38a_lib.M38A	74B3
AUD_VREF_FILT	AUD_VREF_FILT - @m38a_lib.M38A	68C4
AUD_VREF_PORT_B	AUD_VREF_PORT_B - @m38a_lib.M38A	68C1 74A2
BAL_IN_COM	BAL_IN_COM - @m38a_lib.M38A	68C7 74A7
BAL_IN_L	BAL_IN_L - @m38a_lib.M38A	68C7 74A7
BAL_IN_R	BAL_IN_R - @m38a_lib.M38A	68C7 74A7
BAT_1	BAT_1 - @m38a_lib.M38A	26C8
BAT_2	BAT_2 - @m38a_lib.M38A	26C8
BEEP	BEEP - @m38a_lib.M38A	68C6
BIOS_REC	BIOS_REC - @m38a_lib.M38A	23A6 23C5
BOOT_LPC_SPI_L	BOOT_LPC_SPI_L - @m38a_lib.M38A	22B3 58C7 60C4
C8509_P1	C8509_P1 - @m38a_lib.M38A	85C5
CK410_27M_NONSPREAD	CK410_27M_NONSPREAD - @m38a_lib.M38A	34A4 92C7
CK410_27M_SPREAD	CK410_27M_SPREAD - @m38a_lib.M38A	34A4 92C5
	GPU_GPIO_16 - @m38a_lib.M38A	91C3 92C3
CK410_CLK14P3M_TIMER	CK410_CLK14P3M_TIMER - @m38a_lib.M38A	33A4 34D6
CK410_CPU0_N	CK410_CPU0_N - @m38a_lib.M38A	33C4 34B6
CK410_CPU0_P	CK410_CPU0_P - @m38a_lib.M38A	33C4 34B6
CK410_CPU1_N	CK410_CPU1_N - @m38a_lib.M38A	33C4 34B6
CK410_CPU1_P	CK410_CPU1_P - @m38a_lib.M38A	33C4 34B6
CK410_CPU2_ITP_SRC10_N	CK410_CPU2_ITP_SRC10_N - @m38a_lib.M38A	33C4 34B6
CK410_CPU2_ITP_SRC10_P	CK410_CPU2_ITP_SRC10_P - @m38a_lib.M38A	33C4 34B6
CK410_DOT96_27M_NONSPREAD_P	CK410_DOT96_27M_NONSPREAD_P - @m38a_lib.M38A	33A4 34A6
CK410_DOT96_27M_SPREAD_N	CK410_DOT96_27M_SPREAD_N - @m38a_lib.M38A	33A4 34A6
CK410_FSA	CK410_FSA - @m38a_lib.M38A	34B8 34C4
CK410_FSB_TEST_MODE	CK410_FSB_TEST_MODE - @m38a_lib.M38A	33C6 34A8
CK410_FSC	CK410_FSC - @m38a_lib.M38A	34A8 34D4
CK410_IREF	CK410_IREF - @m38a_lib.M38A	33B6
CK410_LVDS_N	CK410_LVDS_N - @m38a_lib.M38A	33B4 34A6
	TP_CK410_LVDS_N - @m38a_lib.M38A	34A4
CK410_LVDS_P	CK410_LVDS_P - @m38a_lib.M38A	33B4 34A6
	TP_CK410_LVDS_P - @m38a_lib.M38A	34A4
CK410_PCI1_CLK	CK410_PCI1_CLK - @m38a_lib.M38A	33B6 34C6
CK410_PCI2_CLK	CK410_PCI2_CLK - @m38a_lib.M38A	33B6 34C6
CK410_PCI3_CLK	CK410_PCI3_CLK - @m38a_lib.M38A	33B6 34C6
CK410_PCI4_CLK	CK410_PCI4_CLK - @m38a_lib.M38A	33B6 34C6
CK410_PCI5_FCTSEL1	CK410_PCI5_FCTSEL1 - @m38a_lib.M38A	33B6 34D6
CK410_PCIF0_CLK	CK410_PCIF0_CLK - @m38a_lib.M38A	33B8 34B6
CK410_PCIF1_ITP_EN	CK410_PCIF1_ITP_EN - @m38a_lib.M38A	33B8 34B6
CK410_PD_VTT_PWRGD_L	CK410_PD_VTT_PWRGD_L - @m38a_lib.M38A	26A8 33A4
	VR_PWRGD_CK410_L - @m38a_lib.M38A	26A7 75C6
CK410_REF1_FCTSEL0	CK410_REF1_FCTSEL0 - @m38a_lib.M38A	33A4 34C6
CK410_SRC1_N	CK410_SRC1_N - @m38a_lib.M38A	33B4 34A6
CK410_SRC1_P	CK410_SRC1_P - @m38a_lib.M38A	33B4 34A6
CK410_SRC2_N	CK410_SRC2_N - @m38a_lib.M38A	33B4 34A6

CK410_SRC2_P	CK410_SRC2_P - @m38a_lib.M38A	33B4 34A6
CK410_SRC3_N	CK410_SRC3_N - @m38a_lib.M38A	33B4 34D3
CK410_SRC3_P	CK410_SRC3_P - @m38a_lib.M38A	33B4 34D3
CK410_SRC4_N	CK410_SRC4_N - @m38a_lib.M38A	33B4 34B6
CK410_SRC4_P	CK410_SRC4_P - @m38a_lib.M38A	33B4 34B6
CK410_SRC5_N	CK410_SRC5_N - @m38a_lib.M38A	33B4 34B6
CK410_SRC5_P	CK410_SRC5_P - @m38a_lib.M38A	33B4 34B6
CK410_SRC6_N	CK410_SRC6_N - @m38a_lib.M38A	33B4 34B6
CK410_SRC6_P	CK410_SRC6_P - @m38a_lib.M38A	33B4 34B6
CK410_SRC7_N	CK410_SRC7_N - @m38a_lib.M38A	33B4 34D3
CK410_SRC7_P	CK410_SRC7_P - @m38a_lib.M38A	33B4 34D3
CK410_SRC8_N	CK410_SRC8_N - @m38a_lib.M38A	33A4 34A6
CK410_SRC8_P	CK410_SRC8_P - @m38a_lib.M38A	33A4 34A6
CK410_SRC_CLKREQ1_L	CK410_SRC_CLKREQ1_L - @m38a_lib.M38A	33B4 34D8
CK410_SRC_CLKREQ3_L	CK410_SRC_CLKREQ3_L - @m38a_lib.M38A	33B4 34D8
CK410_SRC_CLKREQ6_L	CK410_SRC_CLKREQ6_L - @m38a_lib.M38A	33B4 53C6
CK410_SRC_CLKREQ8_L	CK410_SRC_CLKREQ8_L - @m38a_lib.M38A	33A4 34D8
CK410_USB48_FSA	CK410_USB48_FSA - @m38a_lib.M38A	33A4 34C6
CK410_XTAL_IN	CK410_XTAL_IN - @m38a_lib.M38A	33C6
CK410_XTAL_OUT	CK410_XTAL_OUT - @m38a_lib.M38A	33C6
CLK_NB_OE_L	CLK_NB_OE_L - @m38a_lib.M38A	14B6 33B4
CPU_A20M_L	CPU_A20M_L - @m38a_lib.M38A	5C8 7C7 21C4
CPU_BSEL<0>	CPU_BSEL<0> - @m38a_lib.M38A	7B4 34B8
CPU_BSEL<1>	CPU_BSEL<1> - @m38a_lib.M38A	7B4 34A8
CPU_BSEL<2>	CPU_BSEL<2> - @m38a_lib.M38A	7B4 34A8
CPU_COMP<0>	CPU_COMP<0> - @m38a_lib.M38A	7B2
CPU_COMP<1>	CPU_COMP<1> - @m38a_lib.M38A	7B2
CPU_COMP<2>	CPU_COMP<2> - @m38a_lib.M38A	7B2
CPU_COMP<3>	CPU_COMP<3> - @m38a_lib.M38A	7B2
CPU_DCIN_SENSE	CPU_DCIN_SENSE - @m38a_lib.M38A	76D7
CPU_DCIN_SENSE_R	CPU_DCIN_SENSE_R - @m38a_lib.M38A	76C7
CPU_DPRSTP_L	CPU_DPRSTP_L - @m38a_lib.M38A	7B3 21C4 75C6
CPU_DPSLP_L	CPU_DPSLP_L - @m38a_lib.M38A	7B3 21C4
CPU_FERR_L	CPU_FERR_L - @m38a_lib.M38A	7C7 21C2
CPU_GTLREF	CPU_GTLREF - @m38a_lib.M38A	5D4 7B4
CPU_HS_ZH607	CPU_HS_ZH607 - @m38a_lib.M38A	9D4
CPU_HS_ZH608	CPU_HS_ZH608 - @m38a_lib.M38A	9D3 66A4 66A6 66B4 66B6
CPU_HS_ZH609	CPU_HS_ZH609 - @m38a_lib.M38A	9D3
CPU_HS_ZH610	CPU_HS_ZH610 - @m38a_lib.M38A	9D2
CPU_IGNNE_L	CPU_IGNNE_L - @m38a_lib.M38A	5C8 7C7 21C4
CPU_INIT_L	CPU_INIT_L - @m38a_lib.M38A	5C8 7D6 21C4
CPU_INTR	CPU_INTR - @m38a_lib.M38A	5C8 7C7 21C4
CPU_NMI	CPU_NMI - @m38a_lib.M38A	5C8 7C7 21C4
CPU_PROCHOT_L	CPU_PROCHOT_L - @m38a_lib.M38A	7C6 59A8 59C7
CPU_PSI_L	CPU_PSI_L - @m38a_lib.M38A	7A3 75C6
CPU_PWRGD	CPU_PWRGD - @m38a_lib.M38A	7B3 21C4
CPU_RCIN_L	CPU_RCIN_L - @m38a_lib.M38A	21C4
CPU_SENSE_I_R	CPU_SENSE_I_R - @m38a_lib.M38A	76D7
CPU_SMI_L	CPU_SMI_L - @m38a_lib.M38A	5C8 7C7 21C4
CPU_STPCLK_L	CPU_STPCLK_L - @m38a_lib.M38A	5C8 7C7 21C4
CPU_TEST1	CPU_TEST1 - @m38a_lib.M38A	7B4
CPU_TEST2	CPU_TEST2 - @m38a_lib.M38A	7B4
CPU_THERMD_EXT_N	CPU_THERMD_EXT_N - @m38a_lib.M38A	10B6
CPU_THERMD_EXT_P	CPU_THERMD_EXT_P - @m38a_lib.M38A	10B6
CPU_THERMD_N	CPU_THERMD_N - @m38a_lib.M38A	7C6 10C6
CPU_THERMD_P	CPU_THERMD_P - @m38a_lib.M38A	7C6 10C6
CPU_THERMTRIP_R	CPU_THERMTRIP_R - @m38a_lib.M38A	21C2
CPU_VCCSENSE_N	CPU_VCCSENSE_N - @m38a_lib.M38A	8B6 75A4
CPU_VCCSENSE_P	CPU_VCCSENSE_P - @m38a_lib.M38A	8B6 75A4
CPU_VID<0>	CPU_VID<0> - @m38a_lib.M38A	8B7 75C7
CPU_VID<1>	CPU_VID<1> - @m38a_lib.M38A	8B7 75C7
CPU_VID<2>	CPU_VID<2> - @m38a_lib.M38A	8B7 75C7
CPU_VID<3>	CPU_VID<3> - @m38a_lib.M38A	8B7 75C7
CPU_VID<4>	CPU_VID<4> - @m38a_lib.M38A	8B7 75C7
CPU_VID<5>	CPU_VID<5> - @m38a_lib.M38A	8B7 75C7
CPU_VID<6>	CPU_VID<6> - @m38a_lib.M38A	8B7 75D7
CPU_XDP_CLK_N	CPU_XDP_CLK_N - @m38a_lib.M38A	11B3 34B3
	FSB_CLK_XDP_N - @m38a_lib.M38A	34B4 34C2
CPU_XDP_CLK_P	CPU_XDP_CLK_P - @m38a_lib.M38A	11B3 34B3
	FSB_CLK_XDP_P - @m38a_lib.M38A	34B4 34C2
CRB_SV_DET	CRB_SV_DET - @m38a_lib.M38A	23B6 23C3
CRT_BLUE	CRT_BLUE - @m38a_lib.M38A	13B5 19D4
	=PPVCORE_S0_NB - @m38a_lib.M38A	6D4 16C8 16D3 19B6 19D5 19D7
	CRT_BLUE_L - @m38a_lib.M38A	13B5 19D4
	CRT_IREF - @m38a_lib.M38A	13B5 19D4
	CRT_GREEN_L - @m38a_lib.M38A	13B5 19D4
	CRT_GREEN - @m38a_lib.M38A	13B5 19D4
	PP2V5_S0_NB_VCCA_CRTDAC - @m38a_lib.M38A	17D6 19D4
	CRT_RED - @m38a_lib.M38A	13B5 19D4
	CRT_RED_L - @m38a_lib.M38A	13B5 19D4
	PP1V05_S0 - @m38a_lib.M38A	6D6 34A8 34B8 34C7 81C2
	=PP1V05_S0_CPU - @m38a_lib.M38A	5D4 6D4 7B5 7B7 7D5 7D5 8C7 9C8 9C8 11B3 11C5
	=PPVCORE_S0_SB - @m38a_lib.M38A	6D4 24D3 25D3
	=PP1V05_S0_SB_CPU_IO - @m38a_lib.M38A	6D4 21C1 21C1 24C3 25C3
	=PP1V05_S0_NB_VTT - @m38a_lib.M38A	6D4 17D3 19B8 19D7
	=PP1V05_S0_FSB_NB - @m38a_lib.M38A	5D4 6D4 12A7 12B7 12C2 19D7
	PP2V5_S0_NB_VCCA_CRTDAC - @m38a_lib.M38A	17D6 19D4
	PP1V05_S0 - @m38a_lib.M38A	6D6 34A8 34B8 34C7 81C2
	CRT_RED_L - @m38a_lib.M38A	13B5 19D4
	CRT_RED - @m38a_lib.M38A	13B5 19D4
	CRT_IREF - @m38a_lib.M38A	13B5 19D4
	CRT_GREEN_L - @m38a_lib.M38A	13B5 19D4
	CRT_GREEN - @m38a_lib.M38A	13B5 19D4
	CRT_BLUE_L - @m38a_lib.M38A	13B5 19D4
	=PPVCORE_S0_SB - @m38a_lib.M38A	6D4 24D3 25D3
	=PPVCORE_S0_NB - @m38a_lib.M38A	6D4 16C8 16D3 19B6 19D5 19D7
	=PP1V05_S0_SB_CPU_IO - @m38a_lib.M38A	6D4 21C1 21C1 24C3 25C3
	=PP1V05_S0_NB_VTT - @m38a_lib.M38A	6D4 17D3 19B8 19D7
	=PP1V05_S0_NB - @m38a_lib.M38A	6D4 19D7
	=PP1V05_S0_FSB_NB - @m38a_lib.M38A	5D4 6D4 12A7 12B7 12C2 19D7
	=PP1V05_S0_CPU - @m38a_lib.M38A	5D4 6D4 7B5 7B7 7D5 7D5 8C7 9C8 9C8 11B3 11C5
CRT_DDC_CLK	CRT_DDC_CLK - @m38a_lib.M38A	13B5 19C4
	TP_CRT_DDC_CLK - @m38a_lib.M38A	19C5
CRT_DDC_DATA	CRT_DDC_DATA - @m38a_lib.M38A	13B5 19C4
	TP_CRT_DDC_DATA - @m38a_lib.M38A	19C5
DEBUG_RST_L	DEBUG_RST_L - @m38a_lib.M38A	6B7 60C4
DMI_IRCOMP_R	DMI_IRCOMP_R - @m38a_lib.M38A	22C2
DMI_N2S_N<0>	DMI_N2S_N<0> - @m38a_lib.M38A	5B8 14B4 22D2
DMI_N2S_N<1>	DMI_N2S_N<1> - @m38a_lib.M38A	14B4 22D2
DMI_N2S_N<2>	DMI_N2S_N<2> - @m38a_lib.M38A	14B4 22D2

DMI_N2S_N<3>	DMI_N2S_N<3> - @m38a_lib.M38A	14B4 22D2
DMI_N2S_P<0>	DMI_N2S_P<0> - @m38a_lib.M38A	5B8 14B4 22D2
DMI_N2S_P<1>	DMI_N2S_P<1> - @m38a_lib.M38A	14B4 22D2
DMI_N2S_P<2>	DMI_N2S_P<2> - @m38a_lib.M38A	14B4 22D2
DMI_N2S_P<3>	DMI_N2S_P<3> - @m38a_lib.M38A	14B4 22D2
DMI_S2N_N<0>	DMI_S2N_N<0> - @m38a_lib.M38A	5C7 14B4 22D2
DMI_S2N_N<1>	DMI_S2N_N<1> - @m38a_lib.M38A	14B4 22D2
DMI_S2N_N<2>	DMI_S2N_N<2> - @m38a_lib.M38A	14B4 22D2
DMI_S2N_N<3>	DMI_S2N_N<3> - @m38a_lib.M38A	14B4 22D2
DMI_S2N_P<0>	DMI_S2N_P<0> - @m38a_lib.M38A	5C7 14B4 22D2
DMI_S2N_P<1>	DMI_S2N_P<1> - @m38a_lib.M38A	14B4 22D2
DMI_S2N_P<2>	DMI_S2N_P<2> - @m38a_lib.M38A	14B4 22D2
DMI_S2N_P<3>	DMI_S2N_P<3> - @m38a_lib.M38A	14B4 22D2
DVI_DDC_CLK	DVI_DDC_CLK - @m38a_lib.M38A	97D2
DVI_DDC_CLK_UF	DVI_DDC_CLK_UF - @m38a_lib.M38A	97D3 97D5
DVI_DDC_DATA	DVI_DDC_DATA - @m38a_lib.M38A	97C2
DVI_DDC_DATA_UF	DVI_DDC_DATA_UF - @m38a_lib.M38A	97C3 97D5
DVI_HPD_UF	DVI_HPD_UF - @m38a_lib.M38A	97C3 97D5
ENET_C4106_2	ENET_C4106_2 - @m38a_lib.M38A	41D2
ENET_C4107_2	ENET_C4107_2 - @m38a_lib.M38A	41D2
ENET_C4117_1	ENET_C4117_1 - @m38a_lib.M38A	41B2
ENET_C4118_1	ENET_C4118_1 - @m38a_lib.M38A	41B2
ENET_CLK100M_PCIE_N	ENET_CLK100M_PCIE_N - @m38a_lib.M38A	5D5 34A4 34B2 41C5
ENET_CLK100M_PCIE_P	ENET_CLK100M_PCIE_P - @m38a_lib.M38A	5D5 34A4 34B2 41C5
ENET_CTRL12	ENET_CTRL12 - @m38a_lib.M38A	41C7 42B8
	TP_ENET_CTRL12 - @m38a_lib.M38A	42B7
ENET_CTRL25	ENET_CTRL25 - @m38a_lib.M38A	41C7 42C6
ENET_GATED_RST_L	ENET_GATED_RST_L - @m38a_lib.M38A	41C5 42D2
	ENET_RST_L - @m38a_lib.M38A	6B7 42D3
ENET_LED_ACT_L	ENET_LED_ACT_L - @m38a_lib.M38A	41C8
ENET_LED_LINK10_100_L	ENET_LED_LINK10_100_L - @m38a_lib.M38A	41C8
ENET_LED_LINK1000_L	ENET_LED_LINK1000_L - @m38a_lib.M38A	41C8
ENET_LED_LINK_L	ENET_LED_LINK_L - @m38a_lib.M38A	41C8
ENET_LOM_DIS_L	ENET_LOM_DIS_L - @m38a_lib.M38A	41C7
ENET_MDI_N<0>	ENET_MDI_N<0> - @m38a_lib.M38A	41C2 43C7
ENET_MDI_N<1>	ENET_MDI_N<1> - @m38a_lib.M38A	41C2 43C7
ENET_MDI_N<2>	ENET_MDI_N<2> - @m38a_lib.M38A	41C2 43C7
ENET_MDI_N<3>	ENET_MDI_N<3> - @m38a_lib.M38A	41C2 43B7
ENET_MDI_P<0>	ENET_MDI_P<0> - @m38a_lib.M38A	41C2 43C7
ENET_MDI_P<1>	ENET_MDI_P<1> - @m38a_lib.M38A	41C2 43C7
ENET_MDI_P<2>	ENET_MDI_P<2> - @m38a_lib.M38A	41C2 43C7
ENET_MDI_P<3>	ENET_MDI_P<3> - @m38a_lib.M38A	41C2 43C7
ENET_MDI_R_N<0>	ENET_MDI_R_N<0> - @m38a_lib.M38A	5B4 43C6
ENET_MDI_R_N<1>	ENET_MDI_R_N<1> - @m38a_lib.M38A	5B4 43C6
ENET_MDI_R_N<2>	ENET_MDI_R_N<2> - @m38a_lib.M38A	5B4 43C6
ENET_MDI_R_N<3>	ENET_MDI_R_N<3> - @m38a_lib.M38A	5B4 43B6
ENET_MDI_R_P<0>	ENET_MDI_R_P<0> - @m38a_lib.M38A	5B4 43C6
ENET_MDI_R_P<1>	ENET_MDI_R_P<1> - @m38a_lib.M38A	5B4 43C6
ENET_MDI_R_P<2>	ENET_MDI_R_P<2> - @m38a_lib.M38A	5B4 43C6
ENET_MDI_R_P<3>	ENET_MDI_R_P<3> - @m38a_lib.M38A	5B4 43C6
ENET_PU_VDDO_TTL0	ENET_PU_VDDO_TTL0 - @m38a_lib.M38A	41C5
ENET_PU_VDDO_TTL1	ENET_PU_VDDO_TTL1 - @m38a_lib.M38A	41C5
ENET_RSET	ENET_RSET - @m38a_lib.M38A	41C7
ENET_VPD_CLK	ENET_VPD_CLK - @m38a_lib.M38A	41A2 41C4
ENET_VPD_DATA	ENET_VPD_DATA - @m38a_lib.M38A	41A2 41C4
ENET_XTALI	ENET_XTALI - @m38a_lib.M38A	41B5
ENET_XTALO	ENET_XTALO - @m38a_lib.M38A	41B5
F0_GATESLOWDN	F0_GATESLOWDN - @m38a_lib.M38A	65D5
F0_RCFEEDBK	F0_RCFEEDBK - @m38a_lib.M38A	65C5
F0_VOLTAGE8R5	F0_VOLTAGE8R5 - @m38a_lib.M38A	65D6
F1_GATESLOWDN	F1_GATESLOWDN - @m38a_lib.M38A	65B5
F1_RCFEEDBK	F1_RCFEEDBK - @m38a_lib.M38A	65B5
F1_VOLTAGE8R5	F1_VOLTAGE8R5 - @m38a_lib.M38A	65B6
F2_GATESLOWDN	F2_GATESLOWDN - @m38a_lib.M38A	66D4
F2_RCFEEDBK	F2_RCFEEDBK - @m38a_lib.M38A	66C5
F2_VOLTAGE8R5	F2_VOLTAGE8R5 - @m38a_lib.M38A	66D5
FAN_0_OUT	FAN_0_OUT - @m38a_lib.M38A	65C4
FAN_0_PWR	FAN_0_PWR - @m38a_lib.M38A	65C4
FAN_1_OUT	FAN_1_OUT - @m38a_lib.M38A	65B4
FAN_1_PWR	FAN_1_PWR - @m38a_lib.M38A	65B3
FAN_2_OUT	FAN_2_OUT - @m38a_lib.M38A	66C4
FAN_2_PWR	FAN_2_PWR - @m38a_lib.M38A	66C3
FAN_TACH0	FAN_TACH0 - @m38a_lib.M38A	65C7
FAN_TACH1	FAN_TACH1 - @m38a_lib.M38A	65A7
FAN_TACH2	FAN_TACH2 - @m38a_lib.M38A	66C7
FB_A0_MF	FB_A0_MF - @m38a_lib.M38A	89A7
FB_A0_SEN	FB_A0_SEN - @m38a_lib.M38A	89A7
FB_A0_VREF0	FB_A0_VREF0 - @m38a_lib.M38A	89C7
FB_A0_VREF1	FB_A0_VREF1 - @m38a_lib.M38A	89C7
FB_A0_ZQ	FB_A0_ZQ - @m38a_lib.M38A	89A7
FB_A1_MF	FB_A1_MF - @m38a_lib.M38A	89A4
FB_A1_SEN	FB_A1_SEN - @m38a_lib.M38A	89A4
FB_A1_VREF0	FB_A1_VREF0 - @m38a_lib.M38A	89C4
FB_A1_VREF1	FB_A1_VREF1 - @m38a_lib.M38A	89C4
FB_A1_ZQ	FB_A1_ZQ - @m38a_lib.M38A	89A4
FB_A_BA<0>	FB_A_BA<0> - @m38a_lib.M38A	87D5 89A5 89A8
FB_A_BA<1>	FB_A_BA<1> - @m38a_lib.M38A	87D5 89A5 89A8
FB_A_BA<2>	FB_A_BA<2> - @m38a_lib.M38A	87D5 89A5 89A8
FB_A_CAS_L<0>	FB_A_CAS_L<0> - @m38a_lib.M38A	5B6 87B5 89A8
FB_A_CAS_L<1>	FB_A_CAS_L<1> - @m38a_lib.M38A	5A6 87B5 89A5
FB_A_CKE<0>	FB_A_CKE<0> - @m38a_lib.M38A	5B6 87B5 89B8
FB_A_CKE<1>	FB_A_CKE<1> - @m38a_lib.M38A	5A6 87B5 89B5
FB_A_CLK_N<0>	FB_A_CLK_N<0> - @m38a_lib.M38A	5B6 87B5 89B8
FB_A_CLK_N<1>	FB_A_CLK_N<1> - @m38a_lib.M38A	5A6 87B5 89B5
FB_A_CLK_P<0>	FB_A_CLK_P<0> - @m38a_lib.M38A	5B6 87B5 89B8
FB_A_CLK_P<1>	FB_A_CLK_P<1> - @m38a_lib.M38A	5A6 87B5 89B5
FB_A_CS_L<0>	FB_A_CS_L<0> - @m38a_lib.M38A	5B6 87B5 89B8
FB_A_CS_L<1>	FB_A_CS_L<1> - @m38a_lib.M38A	5A6 87B5 89B5
FB_A_DQ<0>	FB_A_DQ<0> - @m38a_lib.M38A	5B6 5D6 87D7 89B6
FB_A_DQ<1>	FB_A_DQ<1> - @m38a_lib.M38A	87D7 89B6
FB_A_DQ<2>	FB_A_DQ<2> - @m38a_lib.M38A	87D7 89B6
FB_A_DQ<3>	FB_A_DQ<3> - @m38a_lib.M38A	87D7 89B6
FB_A_DQ<4>	FB_A_DQ<4> - @m38a_lib.M38A	87D7 89B6
FB_A_DQ<5>	FB_A_DQ<5> - @m38a_lib.M38A	87D7 89B6
FB_A_DQ<6>	FB_A_DQ<6> - @m38a_lib.M38A	87D7 89B6
FB_A_DQ<7>	FB_A_DQ<7> - @m38a_lib.M38A	87D7 89B6
FB_A_DQ<8>	FB_A_DQ<8> - @m38a_lib.M38A	5A6 5D6 87D7 89A6
FB_A_DQ<9>	FB_A_DQ<9> - @m38a_lib.M38A	87D7 89A6
FB_A_DQ<10>	FB_A_DQ<10> - @m38a_lib.M38A	87D7 89A6
FB_A_DQ<11>	FB_A_DQ<11> - @m38a_lib.M38A	87D7 89A6
FB_A_DQ<12>	FB_A_DQ<12> - @m38a_lib.M38A	87D7 89A6
FB_A_DQ<13>	FB_A_DQ<13> - @m38a_lib.M38A	87D7 89A6
FB_A_DQ<14>	FB_A_DQ<14> - @m38a_lib.M38A	87D7 89A6
FB_A_DQ<15>	FB_A_DQ<15> - @m38a_lib.M38A	87D7 89A6
FB_A_DQ<16>	FB_A_DQ<16> - @m38a_lib.M38A	5A6 5D6 87D7 89A6
FB_A_DQ<17>	FB_A_DQ<17> - @m38a_lib.M38A	87D7 89A6
FB_A_DQ<18>	FB_A_DQ<18> - @m38a_lib.M38A	87C7 89A6
FB_A_DQ<19>	FB_A_DQ<19> - @m38a_lib.M38A	87C7 89A6
FB_A_DQ<20>	FB_A_DQ<20> - @m38a_lib.M38A	87C7 89A6
FB_A_DQ<21>	FB_A_DQ<21> - @m38a_lib.M38A	87C7 89A6

FB_A_DQ<22>	FB_A_DQ<22> - @m38a_lib.M38A	87C7 89A6
FB_A_DQ<23>	FB_A_DQ<23> - @m38a_lib.M38A	87C7 89A6
FB_A_DQ<24>	FB_A_DQ<24> - @m38a_lib.M38A	5A6 5D6 87C7 89A6
FB_A_DQ<25>	FB_A_DQ<25> - @m38a_lib.M38A	87C7 89A6
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FB_DRAM_RST	FB_DRAM_RST - @m38a_lib.M38A	87A1 88A8
	DRAM_RST - @m38a_lib.M38A	5A5 5A6 5B5 5B6 88A6 89A5 89A8 90A5 90A8
FSB_ADSTB_L<0>	FSB_ADSTB_L<0> - @m38a_lib.M38A	5D7 5D8 7D7 12C4
FSB_ADSTB_L<1>	FSB_ADSTB_L<1> - @m38a_lib.M38A	5D7 5D8 7C7 12C4
FSB_ADS_L	FSB_ADS_L - @m38a_lib.M38A	7D6 12C4
FSB_A_L<3>	FSB_A_L<3> - @m38a_lib.M38A	7D7 12D4
FSB_A_L<4>	FSB_A_L<4> - @m38a_lib.M38A	7D7 12D4
FSB_A_L<5>	FSB_A_L<5> - @m38a_lib.M38A	7D7 12D4
FSB_A_L<6>	FSB_A_L<6> - @m38a_lib.M38A	5D7 5D8 7D7 12D4
FSB_A_L<7>	FSB_A_L<7> - @m38a_lib.M38A	7D7 12D4
FSB_A_L<8>	FSB_A_L<8> - @m38a_lib.M38A	7D7 12D4
FSB_A_L<9>	FSB_A_L<9> - @m38a_lib.M38A	7D7 12D4
FSB_A_L<10>	FSB_A_L<10> - @m38a_lib.M38A	7D7 12D4
FSB_A_L<11>	FSB_A_L<11> - @m38a_lib.M38A	7D7 12D4
FSB_A_L<12>	FSB_A_L<12> - @m38a_lib.M38A	7D7 12D4
FSB_A_L<13>	FSB_A_L<13> - @m38a_lib.M38A	7D7 12D4
FSB_A_L<14>	FSB_A_L<14> - @m38a_lib.M38A	7D7 12D4
FSB_A_L<15>	FSB_A_L<15> - @m38a_lib.M38A	7D7 12D4
FSB_A_L<16>	FSB_A_L<16> - @m38a_lib.M38A	7D7 12C4
FSB_A_L<17>	FSB_A_L<17> - @m38a_lib.M38A	7C7 12C4
FSB_A_L<18>	FSB_A_L<18> - @m38a_lib.M38A	7C7 12C4
FSB_A_L<19>	FSB_A_L<19> - @m38a_lib.M38A	7C7 12C4
FSB_A_L<20>	FSB_A_L<20> - @m38a_lib.M38A	7C7 12C4
FSB_A_L<21>	FSB_A_L<21> - @m38a_lib.M38A	7C7 12C4
FSB_A_L<22>	FSB_A_L<22> - @m38a_lib.M38A	7C7 12C4
FSB_A_L<23>	FSB_A_L<23> - @m38a_lib.M38A	7C7 12C4
FSB_A_L<24>	FSB_A_L<24> - @m38a_lib.M38A	7C7 12C4
FSB_A_L<25>	FSB_A_L<25> - @m38a_lib.M38A	7C7 12C4
FSB_A_L<26>	FSB_A_L<26> - @m38a_lib.M38A	7C7 12C4
FSB_A_L<27>	FSB_A_L<27> - @m38a_lib.M38A	5D7 5D8 7C7 12C4
FSB_A_L<28>	FSB_A_L<28> - @m38a_lib.M38A	7C7 12C4
FSB_A_L<29>	FSB_A_L<29> - @m38a_lib.M38A	7C7 12C4
FSB_A_L<30>	FSB_A_L<30> - @m38a_lib.M38A	7C7 12C4
FSB_A_L<31>	FSB_A_L<31> - @m38a_lib.M38A	7C7 12C4
FSB_BNR_L	FSB_BNR_L - @m38a_lib.M38A	5C7 7D6 12C4
FSB_BPRI_L	FSB_BPRI_L - @m38a_lib.M38A	7D6 12C4

FSB_BREQ0_L	FSB_BREQ0_L - @m38a_lib.M38A	5C7 7D6 12C4
FSB_CLK_CPU_N	FSB_CLK_CPU_N - @m38a_lib.M38A	5C8 7C6 34B4 34C2
FSB_CLK_CPU_P	FSB_CLK_CPU_P - @m38a_lib.M38A	5C8 7C6 34B4 34C2
FSB_CLK_NB_N	FSB_CLK_NB_N - @m38a_lib.M38A	5C7 12A6 34B4 34C2
FSB_CLK_NB_P	FSB_CLK_NB_P - @m38a_lib.M38A	5C7 12A6 34B4 34C2
FSB_CPURST_L	FSB_CPURST_L - @m38a_lib.M38A	5C8 7D6 11B5 12C4
FSB_DBSY_L	FSB_DBSY_L - @m38a_lib.M38A	5C7 7D6 12B4
FSB_DEFER_L	FSB_DEFER_L - @m38a_lib.M38A	7D6 12B4
FSB_DINV_L<0>	FSB_DINV_L<0> - @m38a_lib.M38A	5D7 5D8 7C4 12B4
FSB_DINV_L<1>	FSB_DINV_L<1> - @m38a_lib.M38A	5D7 5D8 7B4 12B4
FSB_DINV_L<2>	FSB_DINV_L<2> - @m38a_lib.M38A	5D7 5D8 7C2 12B4
FSB_DINV_L<3>	FSB_DINV_L<3> - @m38a_lib.M38A	5D7 5D8 7B2 12B4
FSB_DPWR_L	FSB_DPWR_L - @m38a_lib.M38A	5C7 7B3 12B4
FSB_DRDY_L	FSB_DRDY_L - @m38a_lib.M38A	7D6 12B4
FSB_DSTBN_L<0>	FSB_DSTBN_L<0> - @m38a_lib.M38A	5D7 5D8 7C4 12B4
FSB_DSTBN_L<1>	FSB_DSTBN_L<1> - @m38a_lib.M38A	5D7 5D8 7B4 12B4
FSB_DSTBN_L<2>	FSB_DSTBN_L<2> - @m38a_lib.M38A	5D7 5D8 7C2 12B4
FSB_DSTBN_L<3>	FSB_DSTBN_L<3> - @m38a_lib.M38A	5D7 5D8 7B2 12B4
FSB_DSTBP_L<0>	FSB_DSTBP_L<0> - @m38a_lib.M38A	5D7 5D8 7C4 12B4
FSB_DSTBP_L<1>	FSB_DSTBP_L<1> - @m38a_lib.M38A	5D7 5D8 7B4 12B4
FSB_DSTBP_L<2>	FSB_DSTBP_L<2> - @m38a_lib.M38A	5D7 5D8 7C2 12B4
FSB_DSTBP_L<3>	FSB_DSTBP_L<3> - @m38a_lib.M38A	5D7 5D8 7B2 12B4
FSB_D_L<0>	FSB_D_L<0> - @m38a_lib.M38A	5D7 5D8 7C4 12D6
FSB_D_L<1>	FSB_D_L<1> - @m38a_lib.M38A	7C4 12D6
FSB_D_L<2>	FSB_D_L<2> - @m38a_lib.M38A	7C4 12D6
FSB_D_L<3>	FSB_D_L<3> - @m38a_lib.M38A	7C4 12D6
FSB_D_L<4>	FSB_D_L<4> - @m38a_lib.M38A	7C4 12D6
FSB_D_L<5>	FSB_D_L<5> - @m38a_lib.M38A	7C4 12D6
FSB_D_L<6>	FSB_D_L<6> - @m38a_lib.M38A	7C4 12D6
FSB_D_L<7>	FSB_D_L<7> - @m38a_lib.M38A	7C4 12D6
FSB_D_L<8>	FSB_D_L<8> - @m38a_lib.M38A	7C4 12D6
FSB_D_L<9>	FSB_D_L<9> - @m38a_lib.M38A	7C4 12D6
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FSB_D_L<11>	FSB_D_L<11> - @m38a_lib.M38A	7C4 12D6
FSB_D_L<12>	FSB_D_L<12> - @m38a_lib.M38A	7C4 12D6
FSB_D_L<13>	FSB_D_L<13> - @m38a_lib.M38A	7C4 12C6
FSB_D_L<14>	FSB_D_L<14> - @m38a_lib.M38A	7C4 12C6
FSB_D_L<15>	FSB_D_L<15> - @m38a_lib.M38A	7C4 12C6
FSB_D_L<16>	FSB_D_L<16> - @m38a_lib.M38A	5D7 5D8 7C4 12C6
FSB_D_L<17>	FSB_D_L<17> - @m38a_lib.M38A	7C4 12C6
FSB_D_L<18>	FSB_D_L<18> - @m38a_lib.M38A	7B4 12C6
FSB_D_L<19>	FSB_D_L<19> - @m38a_lib.M38A	7B4 12C6
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FSB_D_L<22>	FSB_D_L<22> - @m38a_lib.M38A	7B4 12C6
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FSB_D_L<24>	FSB_D_L<24> - @m38a_lib.M38A	7B4 12C6
FSB_D_L<25>	FSB_D_L<25> - @m38a_lib.M38A	7B4 12C6
FSB_D_L<26>	FSB_D_L<26> - @m38a_lib.M38A	7B4 12C6
FSB_D_L<27>	FSB_D_L<27> - @m38a_lib.M38A	7B4 12C6
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FSB_D_L<35>	FSB_D_L<35> - @m38a_lib.M38A	7C2 12C6
FSB_D_L<36>	FSB_D_L<36> - @m38a_lib.M38A	7C2 12C6
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FSB_D_L<38>	FSB_D_L<38> - @m38a_lib.M38A	7C2 12C6
FSB_D_L<39>	FSB_D_L<39> - @m38a_lib.M38A	7C2 12B6
FSB_D_L<40>	FSB_D_L<40> - @m38a_lib.M38A	7C2 12B6
FSB_D_L<41>	FSB_D_L<41> - @m38a_lib.M38A	5D7 5D8 7C2 12B6
FSB_D_L<42>	FSB_D_L<42> - @m38a_lib.M38A	7C2 12B6
FSB_D_L<43>	FSB_D_L<43> - @m38a_lib.M38A	7C2 12B6
FSB_D_L<44>	FSB_D_L<44> - @m38a_lib.M38A	7C2 12B6
FSB_D_L<45>	FSB_D_L<45> - @m38a_lib.M38A	7C2 12B6
FSB_D_L<46>	FSB_D_L<46> - @m38a_lib.M38A	7C2 12B6
FSB_D_L<47>	FSB_D_L<47> - @m38a_lib.M38A	7C2 12B6
FSB_D_L<48>	FSB_D_L<48> - @m38a_lib.M38A	7C2 12B6
FSB_D_L<49>	FSB_D_L<49> - @m38a_lib.M38A	7C2 12B6
FSB_D_L<50>	FSB_D_L<50> - @m38a_lib.M38A	7B2 12B6
FSB_D_L<51>	FSB_D_L<51> - @m38a_lib.M38A	7B2 12B6
FSB_D_L<52>	FSB_D_L<52> - @m38a_lib.M38A	7B2 12B6
FSB_D_L<53>	FSB_D_L<53> - @m38a_lib.M38A	7B2 12B6
FSB_D_L<54>	FSB_D_L<54> - @m38a_lib.M38A	7B2 12B6
FSB_D_L<55>	FSB_D_L<55> - @m38a_lib.M38A	7B2 12B6
FSB_D_L<56>	FSB_D_L<56> - @m38a_lib.M38A	7B2 12B6
FSB_D_L<57>	FSB_D_L<57> - @m38a_lib.M38A	7B2 12B6
FSB_D_L<58>	FSB_D_L<58> - @m38a_lib.M38A	7B2 12B6
FSB_D_L<59>	FSB_D_L<59> - @m38a_lib.M38A	5D7 5D8 7B2 12B6
FSB_D_L<60>	FSB_D_L<60> - @m38a_lib.M38A	7B2 12B6
FSB_D_L<61>	FSB_D_L<61> - @m38a_lib.M38A	7B2 12B6
FSB_D_L<62>	FSB_D_L<62> - @m38a_lib.M38A	7B2 12B6
FSB_D_L<63>	FSB_D_L<63> - @m38a_lib.M38A	7B2 12B6
FSB_HITM_L	FSB_HITM_L - @m38a_lib.M38A	5C7 7D6 12B4
FSB_HIT_L	FSB_HIT_L - @m38a_lib.M38A	5C7 7D6 12B4
FSB_IERR_L	FSB_IERR_L - @m38a_lib.M38A	7D6
FSB_LOCK_L	FSB_LOCK_L - @m38a_lib.M38A	5D7 5D8 7D6 12B4
FSB_REQ_L<0>	FSB_REQ_L<0> - @m38a_lib.M38A	5C7 7D7 12B4
FSB_REQ_L<1>	FSB_REQ_L<1> - @m38a_lib.M38A	5C7 7D7 12B4
FSB_REQ_L<2>	FSB_REQ_L<2> - @m38a_lib.M38A	5C7 7D7 12A4
FSB_REQ_L<3>	FSB_REQ_L<3> - @m38a_lib.M38A	5C7 7D7 12A4
FSB_REQ_L<4>	FSB_REQ_L<4> - @m38a_lib.M38A	5C7 7D7 12A4
FSB_RS_L<0>	FSB_RS_L<0> - @m38a_lib.M38A	7D6 12A4
FSB_RS_L<1>	FSB_RS_L<1> - @m38a_lib.M38A	7D6 12A4
FSB_RS_L<2>	FSB_RS_L<2> - @m38a_lib.M38A	7D6 12A4
FSB_SLPCPU_L	FSB_SLPCPU_L - @m38a_lib.M38A	7A3 12A4
FSB_TRDY_L	FSB_TRDY_L - @m38a_lib.M38A	7D6 12A4
FWH_INIT_L	FWH_INIT_L - @m38a_lib.M38A	21C4 59C5 60C1
	SMC_CPU_INIT_3_3_L - @m38a_lib.M38A	58D5 59C6
FWH_MFG_MODE	FWH_MFG_MODE - @m38a_lib.M38A	23A6 23C5
FW_A_TPA_N	FW_A_TPA_N - @m38a_lib.M38A	44C3 46C8
	FW_PORT0_TPA_N - @m38a_lib.M38A	46C5 46C6
FW_A_TPA_P	FW_A_TPA_P - @m38a_lib.M38A	44C3 46C8
	FW_PORT0_TPA_P - @m38a_lib.M38A	46C5 46C6
FW_A_TPBIAS	FW_A_TPBIAS - @m38a_lib.M38A	44C4 46C8
FW_A_TPB_N	FW_A_TPB_N - @m38a_lib.M38A	44C3 46C8
	FW_PORT0_TPB_N - @m38a_lib.M38A	46C5 46C6
FW_A_TPB_P	FW_A_TPB_P - @m38a_lib.M38A	44C3 46C8
	FW_PORT0_TPB_P - @m38a_lib.M38A	46C5 46C6
FW_B_TPA_N	FW_B_TPA_N - @m38a_lib.M38A	44C3 46C8
	FW_PORT1_TPA_N - @m38a_lib.M38A	46B5 46C6
FW_B_TPA_P	FW_B_TPA_P - @m38a_lib.M38A	44C3 46C8
	FW_PORT1_TPA_P - @m38a_lib.M38A	46B5 46C6
FW_B_TPBIAS	FW_B_TPBIAS - @m38a_lib.M38A	44C4 46C8
FW_B_TPB_N	FW_B_TPB_N - @m38a_lib.M38A	44C3 46C8
	FW_PORT1_TPB_N - @m38a_lib.M38A	46B5 46C6
FW_B_TPB_P	FW_B_TPB_P - @m38a_lib.M38A	44C3 46C8
	FW_PORT1_TPB_P - @m38a_lib.M38A	46B5 46C6
FW_CARDBUS_L	FW_CARDBUS_L - @m38a_lib.M38A	44B5
FW_CONTENDER	FW_CONTENDER - @m38a_lib.M38A	44B3
FW_CPS	FW_CPS - @m38a_lib.M38A	44C3

FW_C_TPA_N	FW_C_TPA_N - @m38a_lib.M38A	44C3 46B8
	TP_FW_C_TPA_N - @m38a_lib.M38A	46B7
FW_C_TPA_P	FW_C_TPA_P - @m38a_lib.M38A	44C3 46B8
	TP_FW_C_TPA_P - @m38a_lib.M38A	46B7
FW_C_TPBIAS	FW_C_TPBIAS - @m38a_lib.M38A	44C4 46B8
	TP_FW_C_TPBIAS - @m38a_lib.M38A	46B7
FW_C_TPB_N	FW_C_TPB_N - @m38a_lib.M38A	44C3 46A8
	TP_FW_C_TPB_N - @m38a_lib.M38A	46A7
FW_C_TPB_P	FW_C_TPB_P - @m38a_lib.M38A	44C3 46A8
	TP_FW_C_TPB_P - @m38a_lib.M38A	46A7
FW_PC0	FW_PC0 - @m38a_lib.M38A	44B3
FW_PC1	FW_PC1 - @m38a_lib.M38A	44B3
FW_PC2	FW_PC2 - @m38a_lib.M38A	44B3
FW_PORT0_TPA_FL_N	FW_PORT0_TPA_FL_N - @m38a_lib.M38A	46C2
FW_PORT0_TPA_FL_P	FW_PORT0_TPA_FL_P - @m38a_lib.M38A	46C2
FW_PORT0_TPB_FL_N	FW_PORT0_TPB_FL_N - @m38a_lib.M38A	46C2
FW_PORT0_TPB_FL_P	FW_PORT0_TPB_FL_P - @m38a_lib.M38A	46C2
FW_PORT1_TPA_FL_N	FW_PORT1_TPA_FL_N - @m38a_lib.M38A	46B2
FW_PORT1_TPA_FL_P	FW_PORT1_TPA_FL_P - @m38a_lib.M38A	46B2
FW_PORT1_TPB_FL_N	FW_PORT1_TPB_FL_N - @m38a_lib.M38A	46B2
FW_PORT1_TPB_FL_P	FW_PORT1_TPB_FL_P - @m38a_lib.M38A	46B2
FW_R0	FW_R0 - @m38a_lib.M38A	44C4
FW_R1	FW_R1 - @m38a_lib.M38A	44C4
FW_RESET_L	FW_RESET_L - @m38a_lib.M38A	44C2 44C3
FW_ROM_CLK	FW_ROM_CLK - @m38a_lib.M38A	44B4
FW_SE	FW_SE - @m38a_lib.M38A	44B3
FW_SM	FW_SM - @m38a_lib.M38A	44B3
FW_TEST	FW_TEST - @m38a_lib.M38A	44B3
FW_TPA_C<0>	FW_TPA_C<0> - @m38a_lib.M38A	46B8
FW_TPA_C<1>	FW_TPA_C<1> - @m38a_lib.M38A	46B7
FW_VP	FW_VP - @m38a_lib.M38A	46D4
FW_XTAL_X0	FW_XTAL_X0 - @m38a_lib.M38A	44D2 44D3
FW_XTAL_XI	FW_XTAL_XI - @m38a_lib.M38A	44D2 44D3
FW_XTAL_XR	FW_XTAL_XR - @m38a_lib.M38A	44D2
GATE_3V3_S3	GATE_3V3_S3 - @m38a_lib.M38A	83B4
GATE_5V_S3	GATE_5V_S3 - @m38a_lib.M38A	83C4
GND_AUDIO	GND_AUDIO - @m38a_lib.M38A	6C2 74D2
GND_AUDIO_CODEC	GND_AUDIO_CODEC - @m38a_lib.M38A	68A5 68B7 68D2 72B8 72C8 73A8 73D4 74A2 74A3 74A5 74A7 74B5 74B7 74C1 74C3 74C5 74C6 74D1 74D5
GND_AUDIO_CODEC_EMI1	GND_AUDIO_CODEC_EMI1 - @m38a_lib.M38A	73A7
GND_AUDIO_MIC_CONN	GND_AUDIO_MIC_CONN - @m38a_lib.M38A	47C2 73C2
GND_AUDIO_SPKRAMP	GND_AUDIO_SPKRAMP - @m38a_lib.M38A	6C2 72B1 74D3
GND_AUDIO_SPKRAMP_PLANE	GND_AUDIO_SPKRAMP_PLANE - @m38a_lib.M38A	72A6 72B2 72B5 72D2 72D8 74C3
GND_BNDI	GND_BNDI - @m38a_lib.M38A	47B2 47D1
GND_CHASSIS_AUDIO_EXTERNAL	GND_CHASSIS_AUDIO_EXTERNAL - @m38a_lib.M38A	6B2 73C7
	GND_CHASSIS_IO_LEFT - @m38a_lib.M38A	6B2
	GND_CHASSIS_USB - @m38a_lib.M38A	6B2 47A4 47B4 47C4
	GND_CHASSIS_IO_LEFT - @m38a_lib.M38A	6B2
GND_CHASSIS_AUDIO_EXTERNAL_J	GND_CHASSIS_AUDIO_EXTERNAL_J - @m38a_lib.M38A	73A8 73C5 73C8 74C1 74C3
GND_CHASSIS_AUDIO_INTERNAL	GND_CHASSIS_AUDIO_INTERNAL - @m38a_lib.M38A	6A2 73C4
	GND_CHASSIS_BNDI - @m38a_lib.M38A	6A2 47C2 47C2 47D2
GND_CHASSIS_FIREWIRE	GND_CHASSIS_FIREWIRE - @m38a_lib.M38A	6B2 46A1 46C1
	GND_CHASSIS_RJ45 - @m38a_lib.M38A	6B2 43C6
	GND_CHASSIS_VGA - @m38a_lib.M38A	6B2 97C4
	GND_CHASSIS_RJ45 - @m38a_lib.M38A	6B2 43C6
	GND_CHASSIS_IO_RIGHT - @m38a_lib.M38A	6B1
GND_GPUVCORE_SGND	GND_GPUVCORE_SGND - @m38a_lib.M38A	85C7
GND_GPU_PCIE_PVSS	GND_GPU_PCIE_PVSS - @m38a_lib.M38A	84B8
GND_IMVP6_SGND	GND_IMVP6_SGND - @m38a_lib.M38A	75A4 75B6 75B8 75D7
GND_NB_VSSA_LVDS	GND_NB_VSSA_LVDS - @m38a_lib.M38A	17C6 19C2
	TP_GND_NB_VSSA_LVDS - @m38a_lib.M38A	19C1
GND_NEXT_TO_SMC	GND_NEXT_TO_SMC - @m38a_lib.M38A	59B2
GND_SMC_AVSS	GND_SMC_AVSS - @m38a_lib.M38A	58B2 58C4 59A3 59B3 76B2 76B6 76C5 85C1
GPUISENS_NEG	GPUISENS_NEG - @m38a_lib.M38A	85D3
GPUISENS_NTC	GPUISENS_NTC - @m38a_lib.M38A	85D3
GPUISENS_POS	GPUISENS_POS - @m38a_lib.M38A	85D3
GPUISENS_RC	GPUISENS_RC - @m38a_lib.M38A	85D3
GPUVCORE_BOOT	GPUVCORE_BOOT - @m38a_lib.M38A	85C5
GPUVCORE_COMP	GPUVCORE_COMP - @m38a_lib.M38A	85C7
GPUVCORE_COMP_R	GPUVCORE_COMP_R - @m38a_lib.M38A	85C7
GPUVCORE_EN	GPUVCORE_EN - @m38a_lib.M38A	85C8 88A8
GPUVCORE_FB	GPUVCORE_FB - @m38a_lib.M38A	85C7
GPUVCORE_FCCM	GPUVCORE_FCCM - @m38a_lib.M38A	85C7
GPUVCORE_FSET	GPUVCORE_FSET - @m38a_lib.M38A	85C7
GPUVCORE_IOUT	GPUVCORE_IOUT - @m38a_lib.M38A	59C5 85D1
	SMC_GPU_ISENSE - @m38a_lib.M38A	58D5 59C6
GPUVCORE_ISEN	GPUVCORE_ISEN - @m38a_lib.M38A	85C5
GPUVCORE_LG	GPUVCORE_LG - @m38a_lib.M38A	85C5
GPUVCORE_PGOOD	GPUVCORE_PGOOD - @m38a_lib.M38A	77A4 85C8
GPUVCORE_PHASE	GPUVCORE_PHASE - @m38a_lib.M38A	85C5
GPUVCORE_UG	GPUVCORE_UG - @m38a_lib.M38A	85C5
GPU_B2	GPU_B2 - @m38a_lib.M38A	93B3 97B8
GPU_CLK27M	GPU_CLK27M - @m38a_lib.M38A	92C6
	GPU_XTALIN - @m38a_lib.M38A	91A5 92C5
GPU_CLK100M_PCIE_N	GPU_CLK100M_PCIE_N - @m38a_lib.M38A	5C6 34A4 34B2 84A5
GPU_CLK100M_PCIE_P	GPU_CLK100M_PCIE_P - @m38a_lib.M38A	5C6 34A4 34B2 84A5
GPU_DDC_A_CLK	GPU_DDC_A_CLK - @m38a_lib.M38A	93A3 97D1
GPU_DDC_A_DATA	GPU_DDC_A_DATA - @m38a_lib.M38A	93A3 97C1
GPU_DDC_B_CLK	GPU_DDC_B_CLK - @m38a_lib.M38A	88B1 93A3
	TP_GPU_DDC_B_CLK - @m38a_lib.M38A	88B3
GPU_DDC_B_DATA	GPU_DDC_B_DATA - @m38a_lib.M38A	88B1 93A3
	TP_GPU_DDC_B_DATA - @m38a_lib.M38A	88B3
GPU_DDC_C_CLK	GPU_DDC_C_CLK - @m38a_lib.M38A	93A1 93A3 94A7 94C7
GPU_DDC_C_DATA	GPU_DDC_C_DATA - @m38a_lib.M38A	93A1 93A3 94A6 94C7
GPU_DIGON	GPU_DIGON - @m38a_lib.M38A	6A7 91C3 94C8
GPU_G2	GPU_G2 - @m38a_lib.M38A	93B3 97A8
GPU_GENERICA	GPU_GENERICA - @m38a_lib.M38A	91C3 95B4
	TP_GPU_GENERICA - @m38a_lib.M38A	95B6
GPU_GENERICB	GPU_GENERICB - @m38a_lib.M38A	91C3 95B4
	TP_GPU_GENERICB - @m38a_lib.M38A	95B6
GPU_GENERICC	GPU_GENERICC - @m38a_lib.M38A	91C3 95B4
	TP_GPU_GENERICC - @m38a_lib.M38A	95B6
GPU_GENERICD	GPU_GENERICD - @m38a_lib.M38A	91C3
GPU_GPIO_0	GPU_GPIO_0 - @m38a_lib.M38A	88D5 91D3 94C3
GPU_GPIO_1	GPU_GPIO_1 - @m38a_lib.M38A	88D5 91D3
GPU_GPIO_2	GPU_GPIO_2 - @m38a_lib.M38A	88D5 91D3
GPU_GPIO_3	GPU_GPIO_3 - @m38a_lib.M38A	88D5 91D3
GPU_GPIO_4	GPU_GPIO_4 - @m38a_lib.M38A	88C5 91D3
GPU_GPIO_5	GPU_GPIO_5 - @m38a_lib.M38A	88C5 91D3
GPU_GPIO_6	GPU_GPIO_6 - @m38a_lib.M38A	88C5 91D3
GPU_GPIO_7	GPU_GPIO_7 - @m38a_lib.M38A	88C3 91D3

	TP_GPU_GPIO_7 - @m38a_lib.M38A	88C5
GPU_GPIO_8	GPU_GPIO_8 - @m38a_lib.M38A	88C5 91D3
GPU_GPIO_9	GPU_GPIO_9 - @m38a_lib.M38A	88C5 91C3
GPU_GPIO_10	GPU_GPIO_10 - @m38a_lib.M38A	88C3 91C3
	NC_GPU_GPIO_10 - @m38a_lib.M38A	88C5
GPU_GPIO_11	GPU_GPIO_11 - @m38a_lib.M38A	88B5 91C3
GPU_GPIO_12	GPU_GPIO_12 - @m38a_lib.M38A	88C5 91C3
GPU_GPIO_13	GPU_GPIO_13 - @m38a_lib.M38A	88C5 91C3
GPU_GPIO_14	GPU_GPIO_14 - @m38a_lib.M38A	88C1 91C3
	TP_GPU_GPIO_14 - @m38a_lib.M38A	88C3
GPU_GPIO_15	GPU_GPIO_15 - @m38a_lib.M38A	88B4 91C3
	GPU_VCORE_LOW - @m38a_lib.M38A	88B5
GPU_GPIO_17	GPU_GPIO_17 - @m38a_lib.M38A	88C1 91C3
	TP_GPU_GPIO_17 - @m38a_lib.M38A	88C3
GPU_GPIO_18	GPU_GPIO_18 - @m38a_lib.M38A	91D5 95B4
GPU_GPIO_19	GPU_GPIO_19 - @m38a_lib.M38A	91D5 95B4
GPU_GPIO_20	GPU_GPIO_20 - @m38a_lib.M38A	91D5 95B4
GPU_GPIO_21	GPU_GPIO_21 - @m38a_lib.M38A	91D5 95B4
GPU_GPIO_22	GPU_GPIO_22 - @m38a_lib.M38A	91D5 95B4
GPU_GPIO_23	GPU_GPIO_23 - @m38a_lib.M38A	91D5 95B4
GPU_GPIO_24	GPU_GPIO_24 - @m38a_lib.M38A	88B5 91D5
GPU_GPIO_25	GPU_GPIO_25 - @m38a_lib.M38A	91D5 95C4
GPU_GPIO_26	GPU_GPIO_26 - @m38a_lib.M38A	91D5 95C4
GPU_GPIO_27	GPU_GPIO_27 - @m38a_lib.M38A	88B5 91D5
GPU_GPIO_28	GPU_GPIO_28 - @m38a_lib.M38A	88B5 91D5
GPU_GPIO_29	GPU_GPIO_29 - @m38a_lib.M38A	88B5 91C5
GPU_GPIO_30	GPU_GPIO_30 - @m38a_lib.M38A	91C5 95C4
GPU_GPIO_31	GPU_GPIO_31 - @m38a_lib.M38A	91C5 95C4
GPU_GPIO_32	GPU_GPIO_32 - @m38a_lib.M38A	91C5 95C4
GPU_GPIO_33	GPU_GPIO_33 - @m38a_lib.M38A	91C5 95C4
GPU_GPIO_34	GPU_GPIO_34 - @m38a_lib.M38A	91C5 95C4
GPU_H2SYNC	GPU_H2SYNC - @m38a_lib.M38A	93B3 97A4
GPU_HPD	GPU_HPD - @m38a_lib.M38A	93A5 97C1
GPU_HSYNC_BUF	GPU_HSYNC_BUF - @m38a_lib.M38A	97A4
GPU_MEMTEST	GPU_MEMTEST - @m38a_lib.M38A	87A3
GPU_MVREFD0	GPU_MVREFD0 - @m38a_lib.M38A	87B7
GPU_MVREFD1	GPU_MVREFD1 - @m38a_lib.M38A	87B3
GPU_MVREFS0	GPU_MVREFS0 - @m38a_lib.M38A	87B7
GPU_MVREFS1	GPU_MVREFS1 - @m38a_lib.M38A	87B3
GPU_PCIE_CALI	GPU_PCIE_CALI - @m38a_lib.M38A	84A3
GPU_PCIE_CALRN	GPU_PCIE_CALRN - @m38a_lib.M38A	84A3
GPU_PCIE_CALRP	GPU_PCIE_CALRP - @m38a_lib.M38A	84A3
GPU_PWM_RST_L	GPU_PWM_RST_L - @m38a_lib.M38A	6C7 94B3
GPU_R2	GPU_R2 - @m38a_lib.M38A	93B3 97A8
GPU_TEST_MCLK	GPU_TEST_MCLK - @m38a_lib.M38A	87A3
GPU_TEST_YCLK	GPU_TEST_YCLK - @m38a_lib.M38A	87A3
GPU_TV_C	GPU_TV_C - @m38a_lib.M38A	88B1 93B3
	TP_GPU_TV_C - @m38a_lib.M38A	88B3
GPU_TV_COMP	GPU_TV_COMP - @m38a_lib.M38A	88B1 93B3
	TP_GPU_TV_COMP - @m38a_lib.M38A	88B3
GPU_TV_Y	GPU_TV_Y - @m38a_lib.M38A	88B1 93B3
	TP_GPU_TV_Y - @m38a_lib.M38A	88B3
GPU_V2SYNC	GPU_V2SYNC - @m38a_lib.M38A	93B3 97B4
GPU_VARY_BL	GPU_VARY_BL - @m38a_lib.M38A	91C3 94B4
GPU_VGA_B	GPU_VGA_B - @m38a_lib.M38A	88C1 93C3
	TP_GPU_VGA_B - @m38a_lib.M38A	88C3
GPU_VGA_G	GPU_VGA_G - @m38a_lib.M38A	88C1 93C3
	TP_GPU_VGA_G - @m38a_lib.M38A	88C3
GPU_VGA_HSYNC	GPU_VGA_HSYNC - @m38a_lib.M38A	88B1 93B3
	TP_GPU_VGA_HSYNC - @m38a_lib.M38A	88B3
GPU_VGA_R	GPU_VGA_R - @m38a_lib.M38A	88C1 93C3
	TP_GPU_VGA_R - @m38a_lib.M38A	88C3
GPU_VGA_VSYNC	GPU_VGA_VSYNC - @m38a_lib.M38A	88B1 93B3
	TP_GPU_VGA_VSYNC - @m38a_lib.M38A	88B3
GPU_VSYNC_BUF	GPU_VSYNC_BUF - @m38a_lib.M38A	97B4
GPU_XTALOUT	GPU_XTALOUT - @m38a_lib.M38A	91A5
I2C_ALS_SCL	I2C_ALS_SCL - @m38a_lib.M38A	59C1 59C8
	SMB_A_S3_CLK - @m38a_lib.M38A	58B5 59C2 59D1
I2C_ALS_SDA	I2C_ALS_SDA - @m38a_lib.M38A	59C1 59C8
	SMB_A_S3_DATA - @m38a_lib.M38A	58B5 59C2 59D1
IDE_CSEL_PD	IDE_CSEL_PD - @m38a_lib.M38A	38C3
IDE_DASP_L	IDE_DASP_L - @m38a_lib.M38A	38C3
IDE_DASP_L_DS	IDE_DASP_L_DS - @m38a_lib.M38A	38B3
IDE_IOCS16_PU	IDE_IOCS16_PU - @m38a_lib.M38A	38C1
IDE_IRQ14	IDE_IRQ14 - @m38a_lib.M38A	21B6 38C4
IDE_PDA<0>	IDE_PDA<0> - @m38a_lib.M38A	21B5 38C3
IDE_PDA<1>	IDE_PDA<1> - @m38a_lib.M38A	21B5 38C3
IDE_PDA<2>	IDE_PDA<2> - @m38a_lib.M38A	21B5 38C1
IDE_PDCS1_L	IDE_PDCS1_L - @m38a_lib.M38A	21B5 38C3
IDE_PDCS3_L	IDE_PDCS3_L - @m38a_lib.M38A	21B5 38C1
IDE_PDD<0>	IDE_PDD<0> - @m38a_lib.M38A	21C5 38C3
IDE_PDD<1>	IDE_PDD<1> - @m38a_lib.M38A	21B5 38C3
IDE_PDD<2>	IDE_PDD<2> - @m38a_lib.M38A	21B5 38D3
IDE_PDD<3>	IDE_PDD<3> - @m38a_lib.M38A	21B5 38D3
IDE_PDD<4>	IDE_PDD<4> - @m38a_lib.M38A	21B5 38D3
IDE_PDD<5>	IDE_PDD<5> - @m38a_lib.M38A	21B5 38D3
IDE_PDD<6>	IDE_PDD<6> - @m38a_lib.M38A	21B5 38D3
IDE_PDD<7>	IDE_PDD<7> - @m38a_lib.M38A	21B5 38D3
IDE_PDD<8>	IDE_PDD<8> - @m38a_lib.M38A	21B5 38D1
IDE_PDD<9>	IDE_PDD<9> - @m38a_lib.M38A	5C8 21B5 38D1
IDE_PDD<10>	IDE_PDD<10> - @m38a_lib.M38A	21B5 38D1
IDE_PDD<11>	IDE_PDD<11> - @m38a_lib.M38A	21B5 38D1
IDE_PDD<12>	IDE_PDD<12> - @m38a_lib.M38A	21B5 38D1
IDE_PDD<13>	IDE_PDD<13> - @m38a_lib.M38A	21B5 38D1
IDE_PDD<14>	IDE_PDD<14> - @m38a_lib.M38A	21B5 38D1
IDE_PDD<15>	IDE_PDD<15> - @m38a_lib.M38A	21B5 38C1
IDE_PDDACK_L	IDE_PDDACK_L - @m38a_lib.M38A	21B6 38C1
IDE_PDDREQ	IDE_PDDREQ - @m38a_lib.M38A	21B6 38C4
IDE_PDIORDY	IDE_PDIORDY - @m38a_lib.M38A	5C8 21B6 38C4
IDE_PDIOR_L	IDE_PDIOR_L - @m38a_lib.M38A	5C8 21B6 38C1
IDE_PDIOW_L	IDE_PDIOW_L - @m38a_lib.M38A	21B6 38C3
IDE_RESET_L	IDE_RESET_L - @m38a_lib.M38A	23C3 38D3 38D6
IMVP6_BOOT1	IMVP6_BOOT1 - @m38a_lib.M38A	75A8 75C5
IMVP6_BOOT2	IMVP6_BOOT2 - @m38a_lib.M38A	75A6 75C5
IMVP6_COMP	IMVP6_COMP - @m38a_lib.M38A	75A4 75B6
IMVP6_COMP_RC	IMVP6_COMP_RC - @m38a_lib.M38A	75B7
IMVP6_DFB	IMVP6_DFB - @m38a_lib.M38A	75A4 75B5
IMVP6_DROOP	IMVP6_DROOP - @m38a_lib.M38A	75A4 75B4
IMVP6_FB	IMVP6_FB - @m38a_lib.M38A	75A4 75B6
IMVP6_FB2	IMVP6_FB2 - @m38a_lib.M38A	75A4 75B6
IMVP6_FET_RC1	IMVP6_FET_RC1 - @m38a_lib.M38A	75A8 75C2
IMVP6_FET_RC2	IMVP6_FET_RC2 - @m38a_lib.M38A	75A6 75B2
IMVP6_ISEN1	IMVP6_ISEN1 - @m38a_lib.M38A	75A8 75C5
IMVP6_ISEN2	IMVP6_ISEN2 - @m38a_lib.M38A	75A6 75C5
IMVP6_LGATE1	IMVP6_LGATE1 - @m38a_lib.M38A	75A8 75C5
IMVP6_LGATE2	IMVP6_LGATE2 - @m38a_lib.M38A	75A6 75C5
IMVP6_NTC	IMVP6_NTC - @m38a_lib.M38A	75C7
IMVP6_NTC_R	IMVP6_NTC_R - @m38a_lib.M38A	75C7
IMVP6_OCSET	IMVP6_OCSET - @m38a_lib.M38A	75A4 75B5
IMVP6_PHASE1	IMVP6_PHASE1 - @m38a_lib.M38A	75A8 75C5
IMVP6_PHASE2	IMVP6_PHASE2 - @m38a_lib.M38A	75A6 75C5
IMVP6_RBIAS	IMVP6_RBIAS - @m38a_lib.M38A	75A4 75B6
IMVP6_RTN	IMVP6_RTN - @m38a_lib.M38A	75A4 75B5
IMVP6_SOFT	IMVP6_SOFT - @m38a_lib.M38A	75A4 75C6

IMVP6_UGATE1	IMVP6_UGATE1 - @m38a_lib.M38A	75A8 75C5
IMVP6_UGATE2	IMVP6_UGATE2 - @m38a_lib.M38A	75A6 75C5
IMVP6_VDIFF	IMVP6_VDIFF - @m38a_lib.M38A	75A4 75B6
IMVP6_VDIFF_RC	IMVP6_VDIFF_RC - @m38a_lib.M38A	75B7
IMVP6_VO	IMVP6_VO - @m38a_lib.M38A	75A4 75B4
IMVP6_VO_R	IMVP6_VO_R - @m38a_lib.M38A	75B4
IMVP6_VR_TT	IMVP6_VR_TT - @m38a_lib.M38A	75C7
IMVP6_VSEN	IMVP6_VSEN - @m38a_lib.M38A	75A4 75B5
IMVP6_VSUM	IMVP6_VSUM - @m38a_lib.M38A	75A4 75C5
IMVP6_VSUM_R1	IMVP6_VSUM_R1 - @m38a_lib.M38A	75A8 75C2
IMVP6_VSUM_R2	IMVP6_VSUM_R2 - @m38a_lib.M38A	75A6 75B2
IMVP6_VW	IMVP6_VW - @m38a_lib.M38A	75A4 75B6
IMVP_DPRSLPVR	IMVP_DPRSLPVR - @m38a_lib.M38A	75C6
IMVP_PGD_IN	IMVP_PGD_IN - @m38a_lib.M38A	75C6 77D5
IMVP_VID<0>	IMVP_VID<0> - @m38a_lib.M38A	75C6
IMVP_VID<1>	IMVP_VID<1> - @m38a_lib.M38A	75C7
IMVP_VID<2>	IMVP_VID<2> - @m38a_lib.M38A	75C7
IMVP_VID<3>	IMVP_VID<3> - @m38a_lib.M38A	75C7
IMVP_VID<4>	IMVP_VID<4> - @m38a_lib.M38A	75C7
IMVP_VID<5>	IMVP_VID<5> - @m38a_lib.M38A	75C7
IMVP_VID<6>	IMVP_VID<6> - @m38a_lib.M38A	75C7
IMVP_VR_ON	IMVP_VR_ON - @m38a_lib.M38A	58D7 75C6
INT_PIRQA_L	INT_PIRQA_L - @m38a_lib.M38A	22A7 26D2
INT_PIRQB_L	INT_PIRQB_L - @m38a_lib.M38A	22A7 26D2
INT_PIRQC_L	INT_PIRQC_L - @m38a_lib.M38A	22A7 26D2
INT_PIRQD_L	INT_PIRQD_L - @m38a_lib.M38A	22A7 26D2 44B5
INT_SERIRQ	INT_SERIRQ - @m38a_lib.M38A	23C8 58C7 60C1 67C6
ISENSE_CAL_EN	ISENSE_CAL_EN - @m38a_lib.M38A	58B7 76A8
ITPRESET_L	ITPRESET_L - @m38a_lib.M38A	11B3
ITP_TDO	ITP_TDO - @m38a_lib.M38A	11B3
ITS_ALIVE	ITS_ALIVE - @m38a_lib.M38A	6A7
ITS_PLUGGED_IN	ITS_PLUGGED_IN - @m38a_lib.M38A	6A7
KBC_MDE	KBC_MDE - @m38a_lib.M38A	58C2
LCD_PWM	LCD_PWM - @m38a_lib.M38A	94B1 94C3
LCD_PWM_R	LCD_PWM_R - @m38a_lib.M38A	94B2
LCD_PWREN_L	LCD_PWREN_L - @m38a_lib.M38A	94C8
LCD_PWREN_L_RC	LCD_PWREN_L_RC - @m38a_lib.M38A	94C7
LCD_SHOULD_ON	LCD_SHOULD_ON - @m38a_lib.M38A	6A6
LED_PP1V05_S0_N	LED_PP1V05_S0_N - @m38a_lib.M38A	81A4
LED_PP1V05_S0_P	LED_PP1V05_S0_P - @m38a_lib.M38A	81A4
LED_PP1V5_S0_N	LED_PP1V5_S0_N - @m38a_lib.M38A	80A3
LED_PP1V5_S0_P	LED_PP1V5_S0_P - @m38a_lib.M38A	80A4
LED_PP1V8_S3_N	LED_PP1V8_S3_N - @m38a_lib.M38A	79A4
LED_PP1V8_S3_P	LED_PP1V8_S3_P - @m38a_lib.M38A	79A4
LPC_AD<0>	LPC_AD<0> - @m38a_lib.M38A	21D4 58D7 60C4 67C6
LPC_AD<1>	LPC_AD<1> - @m38a_lib.M38A	21D4 58D7 60C4 67C6
LPC_AD<2>	LPC_AD<2> - @m38a_lib.M38A	21D4 58C7 60C1 67C6
LPC_AD<3>	LPC_AD<3> - @m38a_lib.M38A	21D4 58C7 60C1 67C6
LPC_FRAME_L	LPC_FRAME_L - @m38a_lib.M38A	21C5 58C7 60C4 67C6
LVDS_A_CLK_N	LVDS_A_CLK_N - @m38a_lib.M38A	13D5 19D2
	TP_LVDS_A_CLK_N - @m38a_lib.M38A	19D1
LVDS_A_CLK_P	LVDS_A_CLK_P - @m38a_lib.M38A	13C5 19D2
	TP_LVDS_A_CLK_P - @m38a_lib.M38A	19D1
LVDS_A_DATA_N<0>	LVDS_A_DATA_N<0> - @m38a_lib.M38A	13C5 19D2
LVDS_A_DATA_N<1>	LVDS_A_DATA_N<1> - @m38a_lib.M38A	13C5 19D2
LVDS_A_DATA_N<2>	LVDS_A_DATA_N<2> - @m38a_lib.M38A	13C5 19D2
LVDS_A_DATA_P<0>	LVDS_A_DATA_P<0> - @m38a_lib.M38A	13C5 19D2
LVDS_A_DATA_P<1>	LVDS_A_DATA_P<1> - @m38a_lib.M38A	13C5 19D2
LVDS_A_DATA_P<2>	LVDS_A_DATA_P<2> - @m38a_lib.M38A	13C5 19D2
LVDS_BKLTCTL	LVDS_BKLTCTL - @m38a_lib.M38A	13D5 19C2
	TP_LVDS_BKLTCTL - @m38a_lib.M38A	19C1
LVDS_BKLTEN	LVDS_BKLTEN - @m38a_lib.M38A	13D5 19C2
	TP_LVDS_BKLTEN - @m38a_lib.M38A	19C1
LVDS_B_CLK_N	LVDS_B_CLK_N - @m38a_lib.M38A	13C5 19D2
	TP_LVDS_B_CLK_N - @m38a_lib.M38A	19D1
LVDS_B_CLK_P	LVDS_B_CLK_P - @m38a_lib.M38A	13C5 19D2
	TP_LVDS_B_CLK_P - @m38a_lib.M38A	19D1
LVDS_B_DATA_N<0>	LVDS_B_DATA_N<0> - @m38a_lib.M38A	13C5 19D2
LVDS_B_DATA_N<1>	LVDS_B_DATA_N<1> - @m38a_lib.M38A	13C5 19D2
LVDS_B_DATA_N<2>	LVDS_B_DATA_N<2> - @m38a_lib.M38A	13C5 19D2
LVDS_B_DATA_P<0>	LVDS_B_DATA_P<0> - @m38a_lib.M38A	13C5 19D2
LVDS_B_DATA_P<1>	LVDS_B_DATA_P<1> - @m38a_lib.M38A	13C5 19D2
LVDS_B_DATA_P<2>	LVDS_B_DATA_P<2> - @m38a_lib.M38A	13C5 19D2
LVDS_CLKCTLA	LVDS_CLKCTLA - @m38a_lib.M38A	13D5 19C2
	TP_LVDS_CLKCTLA - @m38a_lib.M38A	19C1
LVDS_CLKCTLB	LVDS_CLKCTLB - @m38a_lib.M38A	13D5 19C2
	TP_LVDS_CLKCTLB - @m38a_lib.M38A	19C1
LVDS_DDC_CLK	LVDS_DDC_CLK - @m38a_lib.M38A	13D5 19C2
	TP_LVDS_DDC_CLK - @m38a_lib.M38A	19C1
LVDS_DDC_DATA	LVDS_DDC_DATA - @m38a_lib.M38A	13D5 19C2
	TP_LVDS_DDC_DATA - @m38a_lib.M38A	19C1
LVDS_IBG	LVDS_IBG - @m38a_lib.M38A	13D5 19C2
	TP_LVDS_IBG - @m38a_lib.M38A	19C1
LVDS_L_CLK_N	LVDS_L_CLK_N - @m38a_lib.M38A	93A3 93D2 94A6
LVDS_L_CLK_P	LVDS_L_CLK_P - @m38a_lib.M38A	93A3 93D2 94A7
LVDS_L_DATA_N<0>	LVDS_L_DATA_N<0> - @m38a_lib.M38A	93A3 93C2 94A6
LVDS_L_DATA_N<1>	LVDS_L_DATA_N<1> - @m38a_lib.M38A	93A3 93C2 94A7
LVDS_L_DATA_N<2>	LVDS_L_DATA_N<2> - @m38a_lib.M38A	93A3 93C2 94A6
LVDS_L_DATA_N<3>	LVDS_L_DATA_N<3> - @m38a_lib.M38A	93A3 94A6
LVDS_L_DATA_P<0>	LVDS_L_DATA_P<0> - @m38a_lib.M38A	93A3 93D2 94A7
LVDS_L_DATA_P<1>	LVDS_L_DATA_P<1> - @m38a_lib.M38A	93A3 93C2 94A6
LVDS_L_DATA_P<2>	LVDS_L_DATA_P<2> - @m38a_lib.M38A	93A3 93C2 94A7
LVDS_L_DATA_P<3>	LVDS_L_DATA_P<3> - @m38a_lib.M38A	93A3 94A7
LVDS_U_CLK_N	LVDS_U_CLK_N - @m38a_lib.M38A	93B3 94B6
LVDS_U_CLK_P	LVDS_U_CLK_P - @m38a_lib.M38A	93B3 94A7
LVDS_U_DATA_N<0>	LVDS_U_DATA_N<0> - @m38a_lib.M38A	93B3 94B7
LVDS_U_DATA_N<1>	LVDS_U_DATA_N<1> - @m38a_lib.M38A	93B3 94B7
LVDS_U_DATA_N<2>	LVDS_U_DATA_N<2> - @m38a_lib.M38A	93B3 94B7
LVDS_U_DATA_N<3>	LVDS_U_DATA_N<3> - @m38a_lib.M38A	93B3 94A6
LVDS_U_DATA_P<0>	LVDS_U_DATA_P<0> - @m38a_lib.M38A	93B3 94B6
LVDS_U_DATA_P<1>	LVDS_U_DATA_P<1> - @m38a_lib.M38A	93B3 94B6
LVDS_U_DATA_P<2>	LVDS_U_DATA_P<2> - @m38a_lib.M38A	93B3 94B6
LVDS_U_DATA_P<3>	LVDS_U_DATA_P<3> - @m38a_lib.M38A	93B3 94A7
LVDS_VDDEN	LVDS_VDDEN - @m38a_lib.M38A	13D5 19C2
	TP_LVDS_VDDEN - @m38a_lib.M38A	19C1
LVDS_VREFH	LVDS_VREFH - @m38a_lib.M38A	13D5 19C2
	TP_LVDS_VREFH - @m38a_lib.M38A	19C1
LVDS_VREFL	LVDS_VREFL - @m38a_lib.M38A	13D5 19C2
	TP_LVDS_VREFL - @m38a_lib.M38A	19C1
MEMVTT_VREF	MEMVTT_VREF - @m38a_lib.M38A	31B4
MEM_A_A<0>	MEM_A_A<0> - @m38a_lib.M38A	15C5 28B3
MEM_A_A<13..0>	MEM_A_A<13..0> - @m38a_lib.M38A	30C6
MEM_A_A<1>	MEM_A_A<1> - @m38a_lib.M38A	15C5 28B6
MEM_A_A<2>	MEM_A_A<2> - @m38a_lib.M38A	15C5 28B3
MEM_A_A<3>	MEM_A_A<3> - @m38a_lib.M38A	15B5 28B6
MEM_A_A<4>	MEM_A_A<4> - @m38a_lib.M38A	15B5 28B3
MEM_A_A<5>	MEM_A_A<5> - @m38a_lib.M38A	15B5 28B6
MEM_A_A<6>	MEM_A_A<6> - @m38a_lib.M38A	15B5 28C3
MEM_A_A<7>	MEM_A_A<7> - @m38a_lib.M38A	15B5 28C3
MEM_A_A<8>	MEM_A_A<8> - @m38a_lib.M38A	15B5 28C6
MEM_A_A<9>	MEM_A_A<9> - @m38a_lib.M38A	15B5 28C6
MEM_A_A<10>	MEM_A_A<10> - @m38a_lib.M38A	15B5 28B6
MEM_A_A<11>	MEM_A_A<11> - @m38a_lib.M38A	15B5 28C3
MEM_A_A<12>	MEM_A_A<12> - @m38a_lib.M38A	15B5 28C6

MEM_A_A<13>	MEM_A_A<13> - @m38a_lib.M38A	15B5 28B3
MEM_A_BS<0>	MEM_A_BS<0> - @m38a_lib.M38A	15D5 28B6
MEM_A_BS<2..0>	MEM_A_BS<2..0> - @m38a_lib.M38A	30C6
MEM_A_BS<1>	MEM_A_BS<1> - @m38a_lib.M38A	15D5 28B3
MEM_A_BS<2>	MEM_A_BS<2> - @m38a_lib.M38A	15D5 28C6
MEM_A_CAS_L	MEM_A_CAS_L - @m38a_lib.M38A	15D5 28B6 30B6
MEM_A_DM<0>	MEM_A_DM<0> - @m38a_lib.M38A	15D5 28D3
MEM_A_DM<1>	MEM_A_DM<1> - @m38a_lib.M38A	15D5 28D3
MEM_A_DM<2>	MEM_A_DM<2> - @m38a_lib.M38A	15D5 28C3
MEM_A_DM<3>	MEM_A_DM<3> - @m38a_lib.M38A	15C5 28C6
MEM_A_DM<4>	MEM_A_DM<4> - @m38a_lib.M38A	15C5 28B3
MEM_A_DM<5>	MEM_A_DM<5> - @m38a_lib.M38A	15C5 28A6
MEM_A_DM<6>	MEM_A_DM<6> - @m38a_lib.M38A	15C5 28A3
MEM_A_DM<7>	MEM_A_DM<7> - @m38a_lib.M38A	15C5 28A6
MEM_A_DQ<0>	MEM_A_DQ<0> - @m38a_lib.M38A	15D7 28D6
MEM_A_DQ<1>	MEM_A_DQ<1> - @m38a_lib.M38A	15D7 28D6
MEM_A_DQ<2>	MEM_A_DQ<2> - @m38a_lib.M38A	15D7 28D6
MEM_A_DQ<3>	MEM_A_DQ<3> - @m38a_lib.M38A	15D7 28D6
MEM_A_DQ<4>	MEM_A_DQ<4> - @m38a_lib.M38A	15D7 28D3
MEM_A_DQ<5>	MEM_A_DQ<5> - @m38a_lib.M38A	15D7 28D3
MEM_A_DQ<6>	MEM_A_DQ<6> - @m38a_lib.M38A	15D7 28D3
MEM_A_DQ<7>	MEM_A_DQ<7> - @m38a_lib.M38A	5B7 15D7 28D3
MEM_A_DQ<8>	MEM_A_DQ<8> - @m38a_lib.M38A	15C7 28D6
MEM_A_DQ<9>	MEM_A_DQ<9> - @m38a_lib.M38A	15C7 28D6
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MEM_A_DQ<12>	MEM_A_DQ<12> - @m38a_lib.M38A	15C7 28D3
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MEM_A_DQ<14>	MEM_A_DQ<14> - @m38a_lib.M38A	5B7 15C7 28D3
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MEM_A_DQ<16>	MEM_A_DQ<16> - @m38a_lib.M38A	5B7 15C7 28C6
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MEM_A_DQ<25>	MEM_A_DQ<25> - @m38a_lib.M38A	5B7 15C7 28C6
MEM_A_DQ<26>	MEM_A_DQ<26> - @m38a_lib.M38A	15C7 28C6
MEM_A_DQ<27>	MEM_A_DQ<27> - @m38a_lib.M38A	15C7 28C6
MEM_A_DQ<28>	MEM_A_DQ<28> - @m38a_lib.M38A	15C7 28C3
MEM_A_DQ<29>	MEM_A_DQ<29> - @m38a_lib.M38A	15C7 28C3
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MEM_A_DQ<35>	MEM_A_DQ<35> - @m38a_lib.M38A	15B7 28B6
MEM_A_DQ<36>	MEM_A_DQ<36> - @m38a_lib.M38A	15B7 28B3
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MEM_A_DQ<38>	MEM_A_DQ<38> - @m38a_lib.M38A	15B7 28B3
MEM_A_DQ<39>	MEM_A_DQ<39> - @m38a_lib.M38A	5B7 15B7 28B3
MEM_A_DQ<40>	MEM_A_DQ<40> - @m38a_lib.M38A	15B7 28B6
MEM_A_DQ<41>	MEM_A_DQ<41> - @m38a_lib.M38A	15B7 28B6
MEM_A_DQ<42>	MEM_A_DQ<42> - @m38a_lib.M38A	15B7 28A6
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MEM_A_DQ<44>	MEM_A_DQ<44> - @m38a_lib.M38A	15B7 28B3
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MEM_A_DQ<54>	MEM_A_DQ<54> - @m38a_lib.M38A	5B7 15B7 28A3
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MEM_A_DQ<56>	MEM_A_DQ<56> - @m38a_lib.M38A	15B7 28A6
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MEM_A_DQ<58>	MEM_A_DQ<58> - @m38a_lib.M38A	15B7 28A6
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MEM_A_DQS_N<0>	MEM_A_DQS_N<0> - @m38a_lib.M38A	5B7 15C5 28D6
MEM_A_DQS_N<1>	MEM_A_DQS_N<1> - @m38a_lib.M38A	5B7 15C5 28D6
MEM_A_DQS_N<2>	MEM_A_DQS_N<2> - @m38a_lib.M38A	5B7 15C5 28C6
MEM_A_DQS_N<3>	MEM_A_DQS_N<3> - @m38a_lib.M38A	5B7 15C5 28C3
MEM_A_DQS_N<4>	MEM_A_DQS_N<4> - @m38a_lib.M38A	5B7 15C5 28B6
MEM_A_DQS_N<5>	MEM_A_DQS_N<5> - @m38a_lib.M38A	5B7 15C5 28B3
MEM_A_DQS_N<6>	MEM_A_DQS_N<6> - @m38a_lib.M38A	5B7 15C5 28A6
MEM_A_DQS_N<7>	MEM_A_DQS_N<7> - @m38a_lib.M38A	5B7 15C5 28A3
MEM_A_DQS_P<0>	MEM_A_DQS_P<0> - @m38a_lib.M38A	5B7 15C5 28D6
MEM_A_DQS_P<1>	MEM_A_DQS_P<1> - @m38a_lib.M38A	5B7 15C5 28D6
MEM_A_DQS_P<2>	MEM_A_DQS_P<2> - @m38a_lib.M38A	5B7 15C5 28C6
MEM_A_DQS_P<3>	MEM_A_DQS_P<3> - @m38a_lib.M38A	5B7 15C5 28C3
MEM_A_DQS_P<4>	MEM_A_DQS_P<4> - @m38a_lib.M38A	5B7 15C5 28B6
MEM_A_DQS_P<5>	MEM_A_DQS_P<5> - @m38a_lib.M38A	5B7 15C5 28A3
MEM_A_DQS_P<6>	MEM_A_DQS_P<6> - @m38a_lib.M38A	5B7 15C5 28A6
MEM_A_DQS_P<7>	MEM_A_DQS_P<7> - @m38a_lib.M38A	5B7 15C5 28A3
MEM_A_RAS_L	MEM_A_RAS_L - @m38a_lib.M38A	15B5 28B3 30B6
MEM_A_WE_L	MEM_A_WE_L - @m38a_lib.M38A	15B5 28B6 30B6
MEM_B_A<0>	MEM_B_A<0> - @m38a_lib.M38A	15C2 29B3 30B5
MEM_B_A<1>	MEM_B_A<1> - @m38a_lib.M38A	15C2 29B6 30B5
MEM_B_A<2>	MEM_B_A<2> - @m38a_lib.M38A	15C2 29B3 30B5
MEM_B_A<3>	MEM_B_A<3> - @m38a_lib.M38A	15B2 29B6 30B5
MEM_B_A<4>	MEM_B_A<4> - @m38a_lib.M38A	15B2 29B3 30B5
MEM_B_A<5>	MEM_B_A<5> - @m38a_lib.M38A	15B2 29B6 30B5
MEM_B_A<6>	MEM_B_A<6> - @m38a_lib.M38A	15B2 29C3 30B5
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MEM_B_A<10>	MEM_B_A<10> - @m38a_lib.M38A	15B2 29B6 30B5
MEM_B_A<11>	MEM_B_A<11> - @m38a_lib.M38A	15B2 29C3 30A5
MEM_B_A<12>	MEM_B_A<12> - @m38a_lib.M38A	15B2 29C6 30A5
MEM_B_A<13>	MEM_B_A<13> - @m38a_lib.M38A	15B2 29B3 30A5
MEM_B_BS<0>	MEM_B_BS<0> - @m38a_lib.M38A	15D2 29B6
MEM_B_BS<2..0>	MEM_B_BS<2..0> - @m38a_lib.M38A	30A6
MEM_B_BS<1>	MEM_B_BS<1> - @m38a_lib.M38A	15D2 29B3
MEM_B_BS<2>	MEM_B_BS<2> - @m38a_lib.M38A	15D2 29C6
MEM_B_CAS_L	MEM_B_CAS_L - @m38a_lib.M38A	15D2 29B6 30A6
MEM_B_DM<0>	MEM_B_DM<0> - @m38a_lib.M38A	15D2 29D3
MEM_B_DM<1>	MEM_B_DM<1> - @m38a_lib.M38A	15D2 29D3
MEM_B_DM<2>	MEM_B_DM<2> - @m38a_lib.M38A	15D2 29C3
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MEM_B_DM<4>	MEM_B_DM<4> - @m38a_lib.M38A	15C2 29B3
MEM_B_DM<5>	MEM_B_DM<5> - @m38a_lib.M38A	15C2 29A6
MEM_B_DM<6>	MEM_B_DM<6> - @m38a_lib.M38A	15C2 29A3
MEM_B_DM<7>	MEM_B_DM<7> - @m38a_lib.M38A	15C2 29A6
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MEM_B_DQ<3>	MEM_B_DQ<3> - @m38a_lib.M38A	15D4 29D6
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MEM_B_DQ<6>	MEM_B_DQ<6> - @m38a_lib.M38A	5A7 15D4 29D3
MEM_B_DQ<7>	MEM_B_DQ<7> - @m38a_lib.M38A	15D4 29D3
MEM_B_DQ<8>	MEM_B_DQ<8> - @m38a_lib.M38A	5A7 15C4 29D6
MEM_B_DQ<9>	MEM_B_DQ<9> - @m38a_lib.M38A	15C4 29D6
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MEM_B_DQ<23>	MEM_B_DQ<23> - @m38a_lib.M38A	5A7 15C4 29C3
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MEM_B_DQ<25>	MEM_B_DQ<25> - @m38a_lib.M38A	5A7 15C4 29C6
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MEM_B_DQ<28>	MEM_B_DQ<28> - @m38a_lib.M38A	15C4 29C3
MEM_B_DQ<29>	MEM_B_DQ<29> - @m38a_lib.M38A	15C4 29C3
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MEM_B_DQ<37>	MEM_B_DQ<37> - @m38a_lib.M38A	15B4 29B3
MEM_B_DQ<38>	MEM_B_DQ<38> - @m38a_lib.M38A	5A7 15B4 29B3
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MEM_B_DQ<40>	MEM_B_DQ<40> - @m38a_lib.M38A	15B4 29B6
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MEM_B_DQ<42>	MEM_B_DQ<42> - @m38a_lib.M38A	15B4 29A6
MEM_B_DQ<43>	MEM_B_DQ<43> - @m38a_lib.M38A	15B4 29A6
MEM_B_DQ<44>	MEM_B_DQ<44> - @m38a_lib.M38A	5A7 15B4 29B3
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MEM_B_DQ<48>	MEM_B_DQ<48> - @m38a_lib.M38A	5A7 15B4 29A6
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MEM_B_DQ<62>	MEM_B_DQ<62> - @m38a_lib.M38A	5A7 15A4 29A3
MEM_B_DQ<63>	MEM_B_DQ<63> - @m38a_lib.M38A	15A4 29A3
MEM_B_DQS_N<0>	MEM_B_DQS_N<0> - @m38a_lib.M38A	5A7 15C2 29D6
MEM_B_DQS_N<1>	MEM_B_DQS_N<1> - @m38a_lib.M38A	5A7 15C2 29D6
MEM_B_DQS_N<2>	MEM_B_DQS_N<2> - @m38a_lib.M38A	5A7 15C2 29C6
MEM_B_DQS_N<3>	MEM_B_DQS_N<3> - @m38a_lib.M38A	5A7 15C2 29C3
MEM_B_DQS_N<4>	MEM_B_DQS_N<4> - @m38a_lib.M38A	5A7 15C2 29B6
MEM_B_DQS_N<5>	MEM_B_DQS_N<5> - @m38a_lib.M38A	5A7 15C2 29B3
MEM_B_DQS_N<6>	MEM_B_DQS_N<6> - @m38a_lib.M38A	5A7 15C2 29A6
MEM_B_DQS_N<7>	MEM_B_DQS_N<7> - @m38a_lib.M38A	5A7 15C2 29A3
MEM_B_DQS_P<0>	MEM_B_DQS_P<0> - @m38a_lib.M38A	5A7 15C2 29D6
MEM_B_DQS_P<1>	MEM_B_DQS_P<1> - @m38a_lib.M38A	5A7 15C2 29D6
MEM_B_DQS_P<2>	MEM_B_DQS_P<2> - @m38a_lib.M38A	5A7 15C2 29C6
MEM_B_DQS_P<3>	MEM_B_DQS_P<3> - @m38a_lib.M38A	5A7 15C2 29C3
MEM_B_DQS_P<4>	MEM_B_DQS_P<4> - @m38a_lib.M38A	5A7 15C2 29B6
MEM_B_DQS_P<5>	MEM_B_DQS_P<5> - @m38a_lib.M38A	5A7 15C2 29A3
MEM_B_DQS_P<6>	MEM_B_DQS_P<6> - @m38a_lib.M38A	5A7 15C2 29A6
MEM_B_DQS_P<7>	MEM_B_DQS_P<7> - @m38a_lib.M38A	5A7 15C2 29A3
MEM_B_RAS_L	MEM_B_RAS_L - @m38a_lib.M38A	15B2 29B3 30A6
MEM_B_SPD_SA1	MEM_B_SPD_SA1 - @m38a_lib.M38A	29A4
MEM_B_WE_L	MEM_B_WE_L - @m38a_lib.M38A	15B2 29B6 30A6
MEM_CKE<0>	MEM_CKE<0> - @m38a_lib.M38A	14C4 28C6
MEM_CKE<3..0>	MEM_CKE<3..0> - @m38a_lib.M38A	30D6
MEM_CKE<1>	MEM_CKE<1> - @m38a_lib.M38A	14C4 28C3
MEM_CKE<2>	MEM_CKE<2> - @m38a_lib.M38A	14C4 29C6
MEM_CKE<3>	MEM_CKE<3> - @m38a_lib.M38A	14C4 29C3
MEM_CLK_N<0>	MEM_CLK_N<0> - @m38a_lib.M38A	14D4 28D3
MEM_CLK_N<1>	MEM_CLK_N<1> - @m38a_lib.M38A	14D4 28A3
MEM_CLK_N<2>	MEM_CLK_N<2> - @m38a_lib.M38A	14D4 29A3
MEM_CLK_N<3>	MEM_CLK_N<3> - @m38a_lib.M38A	14D4 29D3
MEM_CLK_P<0>	MEM_CLK_P<0> - @m38a_lib.M38A	14D4 28D3
MEM_CLK_P<1>	MEM_CLK_P<1> - @m38a_lib.M38A	14D4 28A3
MEM_CLK_P<2>	MEM_CLK_P<2> - @m38a_lib.M38A	14D4 29A3
MEM_CLK_P<3>	MEM_CLK_P<3> - @m38a_lib.M38A	14D4 29D3
MEM_CS_L<0>	MEM_CS_L<0> - @m38a_lib.M38A	14C4 28B3
MEM_CS_L<3..0>	MEM_CS_L<3..0> - @m38a_lib.M38A	30D6
MEM_CS_L<1>	MEM_CS_L<1> - @m38a_lib.M38A	14C4 28B6
MEM_CS_L<2>	MEM_CS_L<2> - @m38a_lib.M38A	14C4 29B3
MEM_CS_L<3>	MEM_CS_L<3> - @m38a_lib.M38A	14C4 29B6
MEM_ODT<0>	MEM_ODT<0> - @m38a_lib.M38A	14C4 28B3
MEM_ODT<3..0>	MEM_ODT<3..0> - @m38a_lib.M38A	30D6
MEM_ODT<1>	MEM_ODT<1> - @m38a_lib.M38A	14C4 28B6
MEM_ODT<2>	MEM_ODT<2> - @m38a_lib.M38A	14C4 29B3
MEM_ODT<3>	MEM_ODT<3> - @m38a_lib.M38A	14C4 29B6
MEM_RCOMP	MEM_RCOMP - @m38a_lib.M38A	14C4
MEM_RCOMP_L	MEM_RCOMP_L - @m38a_lib.M38A	14C4
MEM_VREF	MEM_VREF - @m38a_lib.M38A	5C4 28C7 28D6 29D6
MEM_VREF_NB_0	MEM_VREF_NB_0 - @m38a_lib.M38A	5B7 14C4 19B6
MEM_VREF_NB_1	MEM_VREF_NB_1 - @m38a_lib.M38A	5B7 14C4 19B7
NB_BSEL<0>	NB_BSEL<0> - @m38a_lib.M38A	14C6 34B8
NB_BSEL<1>	NB_BSEL<1> - @m38a_lib.M38A	14C6 34B8
NB_BSEL<2>	NB_BSEL<2> - @m38a_lib.M38A	14C6 34A8
NB_CFG<3>	NB_CFG<3> - @m38a_lib.M38A	14C6
NB_CFG<4>	NB_CFG<4> - @m38a_lib.M38A	14C6
NB_CFG<5>	NB_CFG<5> - @m38a_lib.M38A	14C6 20C7
NB_CFG<6>	NB_CFG<6> - @m38a_lib.M38A	14C6
NB_CFG<7>	NB_CFG<7> - @m38a_lib.M38A	14C6 20C7
NB_CFG<8>	NB_CFG<8> - @m38a_lib.M38A	14C6
NB_CFG<9>	NB_CFG<9> - @m38a_lib.M38A	14C6 20B7
NB_CFG<10>	NB_CFG<10> - @m38a_lib.M38A	14C6
NB_CFG<11>	NB_CFG<11> - @m38a_lib.M38A	14C6
NB_CFG<12>	NB_CFG<12> - @m38a_lib.M38A	14C6
NB_CFG<13>	NB_CFG<13> - @m38a_lib.M38A	14C6

NB_CFG<14>	NB_CFG<14> - @m38a_lib.M38A	14C6
NB_CFG<15>	NB_CFG<15> - @m38a_lib.M38A	14C6
NB_CFG<16>	NB_CFG<16> - @m38a_lib.M38A	14C6 20C5
NB_CFG<17>	NB_CFG<17> - @m38a_lib.M38A	14C6
NB_CFG<18>	NB_CFG<18> - @m38a_lib.M38A	14C6 20B5
NB_CFG<19>	NB_CFG<19> - @m38a_lib.M38A	14C6 20B5
NB_CFG<20>	NB_CFG<20> - @m38a_lib.M38A	14B6 20A5
NB_CLK100M_GCLKIN_N	NB_CLK100M_GCLKIN_N - @m38a_lib.M38A	5C7 14C4 34B4 34C2
NB_CLK100M_GCLKIN_P	NB_CLK100M_GCLKIN_P - @m38a_lib.M38A	5C7 14C4 34B4 34C2
NB_FSB_VREF	NB_FSB_VREF - @m38a_lib.M38A	5D4 12C4
NB_FSB_XRCOMP	NB_FSB_XRCOMP - @m38a_lib.M38A	12A6
NB_FSB_XSCOMP	NB_FSB_XSCOMP - @m38a_lib.M38A	12A6
NB_FSB_XSWING	NB_FSB_XSWING - @m38a_lib.M38A	12A6
NB_FSB_YRCOMP	NB_FSB_YRCOMP - @m38a_lib.M38A	12A6
NB_FSB_YSCOMP	NB_FSB_YSCOMP - @m38a_lib.M38A	12A6
NB_FSB_YSWING	NB_FSB_YSWING - @m38a_lib.M38A	12A6
NB_RST_IN_L	NB_RST_IN_L - @m38a_lib.M38A	6B7 14B7
NB_RST_IN_L_R	NB_RST_IN_L_R - @m38a_lib.M38A	5C7 14B6
NB_SB_SYNC_L	NB_SB_SYNC_L - @m38a_lib.M38A	14B6 22A6
NB_TV_DCONSEL0	NB_TV_DCONSEL0 - @m38a_lib.M38A	14D6
NB_TV_DCONSEL1	NB_TV_DCONSEL1 - @m38a_lib.M38A	14C6
NB_VCCSM_LF1	NB_VCCSM_LF1 - @m38a_lib.M38A	16B4
NB_VCCSM_LF2	NB_VCCSM_LF2 - @m38a_lib.M38A	16B4
NB_VCCSM_LF4	NB_VCCSM_LF4 - @m38a_lib.M38A	16B8
NB_VCCSM_LF5	NB_VCCSM_LF5 - @m38a_lib.M38A	16B8
NB_VTTLF_CAP1	NB_VTTLF_CAP1 - @m38a_lib.M38A	17A4
NB_VTTLF_CAP2	NB_VTTLF_CAP2 - @m38a_lib.M38A	17A4
NB_VTTLF_CAP3	NB_VTTLF_CAP3 - @m38a_lib.M38A	17B4
NC_AUD_BI_PORT_D_L	NC_AUD_BI_PORT_D_L - @m38a_lib.M38A	68C7
NC_AUD_BI_PORT_D_R	NC_AUD_BI_PORT_D_R - @m38a_lib.M38A	68C7
NC_AUD_BI_PORT_E_L	NC_AUD_BI_PORT_E_L - @m38a_lib.M38A	68C1
NC_AUD_BI_PORT_E_R	NC_AUD_BI_PORT_E_R - @m38a_lib.M38A	68C1
NC_AUD_VREF_PORT_A	NC_AUD_VREF_PORT_A - @m38a_lib.M38A	68C1
NC_AUD_VREF_PORT_C	NC_AUD_VREF_PORT_C - @m38a_lib.M38A	68C1
NC_AUD_VREF_PORT_D	NC_AUD_VREF_PORT_D - @m38a_lib.M38A	68C1
NC_FW_NU1	NC_FW_NU1 - @m38a_lib.M38A	44B3
NC_FW_NU2	NC_FW_NU2 - @m38a_lib.M38A	44B3
NC_JE350_13	NC_JE350_13 - @m38a_lib.M38A	47B1
NC_SMC_P20	NC_SMC_P20 - @m38a_lib.M38A	59D5
	SMC_P20 - @m38a_lib.M38A	58D7 59D6
NC_SMC_P21	NC_SMC_P21 - @m38a_lib.M38A	59D5
	SMC_P21 - @m38a_lib.M38A	58D7 59D6
NC_SMC_P22	NC_SMC_P22 - @m38a_lib.M38A	59D5
	SMC_P22 - @m38a_lib.M38A	58D7 59D6
NC_SMC_P23	NC_SMC_P23 - @m38a_lib.M38A	59D5
	SMC_P23 - @m38a_lib.M38A	58D7 59D6
NC_SMC_P26	NC_SMC_P26 - @m38a_lib.M38A	59D5
	SMC_P26 - @m38a_lib.M38A	58D7 59D6
NC_SMC_P27	NC_SMC_P27 - @m38a_lib.M38A	59D5
	SMC_P27 - @m38a_lib.M38A	58D7 59D6
NC_VOL_DOWN	NC_VOL_DOWN - @m38a_lib.M38A	68C7
NC_VOL_UP	NC_VOL_UP - @m38a_lib.M38A	68C7
NC_VREG_POK	NC_VREG_POK - @m38a_lib.M38A	68A3
ODD_PWR_EN_L	ODD_PWR_EN_L - @m38a_lib.M38A	22A6 26C3
	SB_GPIO5 - @m38a_lib.M38A	26C2
P0V48_SMC_LSREF	P0V48_SMC_LSREF - @m38a_lib.M38A	59A8 59B7
PANEL_ID	PANEL_ID - @m38a_lib.M38A	94C2 94C3
PATA_PWR_EN_L	PATA_PWR_EN_L - @m38a_lib.M38A	23B3 23C3
PCIE_A_D2R_C_N	PCIE_A_D2R_C_N - @m38a_lib.M38A	41D5
PCIE_A_D2R_C_P	PCIE_A_D2R_C_P - @m38a_lib.M38A	41D5
PCIE_A_D2R_N	PCIE_A_D2R_N - @m38a_lib.M38A	5B8 22D4 41D4
PCIE_A_D2R_P	PCIE_A_D2R_P - @m38a_lib.M38A	5C8 22D4 41D4
PCIE_A_R2D_C_N	PCIE_A_R2D_C_N - @m38a_lib.M38A	22D4 41C3
PCIE_A_R2D_C_P	PCIE_A_R2D_C_P - @m38a_lib.M38A	22D4 41C3
PCIE_A_R2D_N	PCIE_A_R2D_N - @m38a_lib.M38A	41C5
PCIE_A_R2D_P	PCIE_A_R2D_P - @m38a_lib.M38A	41C5
PCIE_B_D2R_N	PCIE_B_D2R_N - @m38a_lib.M38A	5B8 22D4 53C7
PCIE_B_D2R_P	PCIE_B_D2R_P - @m38a_lib.M38A	5B8 22D4 53C7
PCIE_B_R2D_C_N	PCIE_B_R2D_C_N - @m38a_lib.M38A	22D4 53B7
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PCIE_B_R2D_N	PCIE_B_R2D_N - @m38a_lib.M38A	53B6
PCIE_B_R2D_P	PCIE_B_R2D_P - @m38a_lib.M38A	53B6
PCIE_C_D2R_N	PCIE_C_D2R_N - @m38a_lib.M38A	22D4 54D8
	TP_PCIE_C_D2R_N - @m38a_lib.M38A	54D6
PCIE_C_D2R_P	PCIE_C_D2R_P - @m38a_lib.M38A	22D4 54D8
	TP_PCIE_C_D2R_P - @m38a_lib.M38A	54D6
PCIE_C_R2D_C_N	PCIE_C_R2D_C_N - @m38a_lib.M38A	22D4 54D8
	TP_PCIE_C_R2D_C_N - @m38a_lib.M38A	54D6
PCIE_C_R2D_C_P	PCIE_C_R2D_C_P - @m38a_lib.M38A	22D4 54D8
	TP_PCIE_C_R2D_C_P - @m38a_lib.M38A	54D6
PCIE_D_D2R_N	PCIE_D_D2R_N - @m38a_lib.M38A	22D4 54C8
	TP_PCIE_D_D2R_N - @m38a_lib.M38A	54C6
PCIE_D_D2R_P	PCIE_D_D2R_P - @m38a_lib.M38A	22D4 54C8
	TP_PCIE_D_D2R_P - @m38a_lib.M38A	54C6
PCIE_D_R2D_C_N	PCIE_D_R2D_C_N - @m38a_lib.M38A	22D4 54D8
	TP_PCIE_D_R2D_C_N - @m38a_lib.M38A	54D6
PCIE_D_R2D_C_P	PCIE_D_R2D_C_P - @m38a_lib.M38A	22D4 54D8
	TP_PCIE_D_R2D_C_P - @m38a_lib.M38A	54D6
PCIE_E_D2R_N	PCIE_E_D2R_N - @m38a_lib.M38A	22C4 54C8
	TP_PCIE_E_D2R_N - @m38a_lib.M38A	54C6
PCIE_E_D2R_P	PCIE_E_D2R_P - @m38a_lib.M38A	22C4 54C8
	TP_PCIE_E_D2R_P - @m38a_lib.M38A	54C6
PCIE_E_R2D_C_N	PCIE_E_R2D_C_N - @m38a_lib.M38A	22C4 54C8
	TP_PCIE_E_R2D_C_N - @m38a_lib.M38A	54C6
PCIE_E_R2D_C_P	PCIE_E_R2D_C_P - @m38a_lib.M38A	22C4 54C8
	TP_PCIE_E_R2D_C_P - @m38a_lib.M38A	54C6
PCIE_F_D2R_N	PCIE_F_D2R_N - @m38a_lib.M38A	22C4 54B8
	TP_PCIE_F_D2R_N - @m38a_lib.M38A	54B6
PCIE_F_D2R_P	PCIE_F_D2R_P - @m38a_lib.M38A	22C4 54B8
	TP_PCIE_F_D2R_P - @m38a_lib.M38A	54B6
PCIE_F_R2D_C_N	PCIE_F_R2D_C_N - @m38a_lib.M38A	22C4 54C8
	TP_PCIE_F_R2D_C_N - @m38a_lib.M38A	54C6
PCIE_F_R2D_C_P	PCIE_F_R2D_C_P - @m38a_lib.M38A	22C4 54B8
	TP_PCIE_F_R2D_C_P - @m38a_lib.M38A	54B6
PCIE_WAKE_L	PCIE_WAKE_L - @m38a_lib.M38A	23C8 41C4 53C7
PCI_AD<0>	PCI_AD<0> - @m38a_lib.M38A	22B7 44D5
PCI_AD<1>	PCI_AD<1> - @m38a_lib.M38A	22B7 44D5
PCI_AD<2>	PCI_AD<2> - @m38a_lib.M38A	22B7 44D5
PCI_AD<3>	PCI_AD<3> - @m38a_lib.M38A	22B7 44D5
PCI_AD<4>	PCI_AD<4> - @m38a_lib.M38A	22B7 44D5
PCI_AD<5>	PCI_AD<5> - @m38a_lib.M38A	22B7 44C5
PCI_AD<6>	PCI_AD<6> - @m38a_lib.M38A	22B7 44C5
PCI_AD<7>	PCI_AD<7> - @m38a_lib.M38A	22B7 44C5
PCI_AD<8>	PCI_AD<8> - @m38a_lib.M38A	22B7 44C5
PCI_AD<9>	PCI_AD<9> - @m38a_lib.M38A	22B7 44C5
PCI_AD<10>	PCI_AD<10> - @m38a_lib.M38A	22B7 44C5
PCI_AD<11>	PCI_AD<11> - @m38a_lib.M38A	22B7 44C5
PCI_AD<12>	PCI_AD<12> - @m38a_lib.M38A	22B7 44C5
PCI_AD<13>	PCI_AD<13> - @m38a_lib.M38A	22B7 44C5
PCI_AD<14>	PCI_AD<14> - @m38a_lib.M38A	22B7 44C5
PCI_AD<15>	PCI_AD<15> - @m38a_lib.M38A	22B7 44C5
PCI_AD<16>	PCI_AD<16> - @m38a_lib.M38A	22B7 44C5

PCI_AD<17>	PCI_AD<17> - @m38a_lib.M38A	22B7 44C5
PCI_AD<18>	PCI_AD<18> - @m38a_lib.M38A	22B7 44C5
PCI_AD<19>	PCI_AD<19> - @m38a_lib.M38A	22A7 44C6
PCI_AD<20>	PCI_AD<20> - @m38a_lib.M38A	22A7 44C5
PCI_AD<21>	PCI_AD<21> - @m38a_lib.M38A	22A7 44C5
PCI_AD<22>	PCI_AD<22> - @m38a_lib.M38A	22A7 44C5
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PCI_AD<31>	PCI_AD<31> - @m38a_lib.M38A	22A7 44B5
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PCI_CLK_PORT80	PCI_CLK_PORT80 - @m38a_lib.M38A	34B4 60C1
PCI_CLK_SB	PCI_CLK_SB - @m38a_lib.M38A	5C8 22A6 34B4
PCI_CLK_SMC	PCI_CLK_SMC - @m38a_lib.M38A	34C4 58C7
PCI_CLK_TPM	PCI_CLK_TPM - @m38a_lib.M38A	34C4 67C6
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PCI_DEVSEL_L	PCI_DEVSEL_L - @m38a_lib.M38A	22A6 26D2 44B5
PCI_FRAME_L	PCI_FRAME_L - @m38a_lib.M38A	22A7 26D2 44B5
PCI_GNT1_L	PCI_GNT1_L - @m38a_lib.M38A	22B6 44B5
PCI_IDSEL	PCI_IDSEL - @m38a_lib.M38A	44B5
PCI_IRDY_L	PCI_IRDY_L - @m38a_lib.M38A	22A6 26D2 44B5
PCI_LOCK_L	PCI_LOCK_L - @m38a_lib.M38A	22A6 26D2
PCI_PAR	PCI_PAR - @m38a_lib.M38A	22A6 44B5
PCI_PERR_L	PCI_PERR_L - @m38a_lib.M38A	22A6 26D2 44B5
PCI_PME_FW_L	PCI_PME_FW_L - @m38a_lib.M38A	22B5 44B5
PCI_REQ0_L	PCI_REQ0_L - @m38a_lib.M38A	22B6 26D2
PCI_REQ1_L	PCI_REQ1_L - @m38a_lib.M38A	22B6 26D2 44B5
PCI_REQ2_L	PCI_REQ2_L - @m38a_lib.M38A	22B6 26D2
PCI_REQ3_L	PCI_REQ3_L - @m38a_lib.M38A	22B6 26D2
PCI_RST_FW_L	PCI_RST_FW_L - @m38a_lib.M38A	44A7 44B5
PCI_RST_L	PCI_RST_L - @m38a_lib.M38A	22A6 44A8
PCI_SERR_L	PCI_SERR_L - @m38a_lib.M38A	22A6 26D2 44B5
PCI_STOP_L	PCI_STOP_L - @m38a_lib.M38A	22A6 26D2 44B5
PCI_TRDY_L	PCI_TRDY_L - @m38a_lib.M38A	22A6 26D2 44B5
PEG_COMP	PEG_COMP - @m38a_lib.M38A	13D3
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PEG_RESET_L	PEG_RESET_L - @m38a_lib.M38A	6B7 84A5
PLT_RST_L	PLT_RST_L - @m38a_lib.M38A	6C8 22A6
PM_BATLOW_L	PM_BATLOW_L - @m38a_lib.M38A	23C1 58B7
PM_BMBUSY_L	PM_BMBUSY_L - @m38a_lib.M38A	14B6 23C5
PM_CLKRUN_L	PM_CLKRUN_L - @m38a_lib.M38A	5B8 23C8 44B5 58C5 60C4 67C6
PM_DPRSLPVR	PM_DPRSLPVR - @m38a_lib.M38A	14B7 23C3 75C7
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	DIMM_OVERTEMP_L - @m38a_lib.M38A	28C3 29C3 59C6
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PM_PWRBTN_L	PM_PWRBTN_L - @m38a_lib.M38A	23C3 58D7
PM_PWROK	PM_PWROK - @m38a_lib.M38A	77C5
PM_RI_L	PM_RI_L - @m38a_lib.M38A	23D5
PM_RSMRST_L	PM_RSMRST_L - @m38a_lib.M38A	23C1 58D7
PM_SB_PWROK	PM_SB_PWROK - @m38a_lib.M38A	23C3 26D6
PM_SLP_S3	PM_SLP_S3 - @m38a_lib.M38A	77D7 78B8 80C8 81C8
PM_SLP_S3_L	PM_SLP_S3_L - @m38a_lib.M38A	6C8 23C3 58C5 77D8 79A7 88A6
	MEMVTT_EN - @m38a_lib.M38A	31B5 79A6
PM_SLP_S4	PM_SLP_S4 - @m38a_lib.M38A	77A8 77C7 79C8 83C6
PM_SLP_S4_L	PM_SLP_S4_L - @m38a_lib.M38A	23C3 58C5 77C8
PM_SLP_S5_L	PM_SLP_S5_L - @m38a_lib.M38A	23C3 58C5
PM_STPCPU_L	PM_STPCPU_L - @m38a_lib.M38A	23C8 33C4
PM_STPPCI_L	PM_STPPCI_L - @m38a_lib.M38A	23C8 33C4
PM_SUS_STAT_L	PM_SUS_STAT_L - @m38a_lib.M38A	23C5 58C5 60C1 67C6
PM_SYSRST_L	PM_SYSRST_L - @m38a_lib.M38A	5B8 23C5 26C3 58B7
PM_THRMTRIP_L	PM_THRMTRIP_L - @m38a_lib.M38A	7C6 14B6 21C2 59C7
PM_THRM_L	PM_THRM_L - @m38a_lib.M38A	10D3 23C8 58B7
POWER_BUTTON_L	POWER_BUTTON_L - @m38a_lib.M38A	5D1 59C8
PP0V9_S0_PGOOD	PP0V9_S0_PGOOD - @m38a_lib.M38A	77D6 79A2
PP1V2_S0_GPU_VDDPLL	PP1V2_S0_GPU_VDDPLL - @m38a_lib.M38A	91B6
PP1V05_S0_PGOOD	PP1V05_S0_PGOOD - @m38a_lib.M38A	77D6 81B2
PP1V5_S0_NB_3GPLL_F	PP1V5_S0_NB_3GPLL_F - @m38a_lib.M38A	19A5
PP1V5_S0_NB_VCC3G	PP1V5_S0_NB_VCC3G - @m38a_lib.M38A	17D6 19A3
PP1V5_S0_NB_VCCA_3GPLL	PP1V5_S0_NB_VCCA_3GPLL - @m38a_lib.M38A	17D6 19A3
PP1V5_S0_NB_VCCA_DPLLA	PP1V5_S0_NB_VCCA_DPLLA - @m38a_lib.M38A	17C6 19C4
	TP_NB_VCCA_DPLLA - @m38a_lib.M38A	19C5
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	TP_NB_VCCA_DPLLB - @m38a_lib.M38A	19C5
PP1V5_S0_NB_VCCA_HPLL	PP1V5_S0_NB_VCCA_HPLL - @m38a_lib.M38A	17C6 19C6
PP1V5_S0_NB_VCCA_MPLL	PP1V5_S0_NB_VCCA_MPLL - @m38a_lib.M38A	17C6 19C6
PP1V5_S0_PGOOD	PP1V5_S0_PGOOD - @m38a_lib.M38A	77D6 80B2
PP1V5_S0_SB_R	PP1V5_S0_SB_R - @m38a_lib.M38A	25A7
PP1V5_S0_SB_VCC1_5_B	PP1V5_S0_SB_VCC1_5_B - @m38a_lib.M38A	22C1 24D5 25B7
PP1V5_S0_SB_VCCDMIPLL	PP1V5_S0_SB_VCCDMIPLL - @m38a_lib.M38A	24B5 25A6
PP1V8R2V0_S0_GPU_VDDRH0	PP1V8R2V0_S0_GPU_VDDRH0 - @m38a_lib.M38A	87A7
PP1V8R2V0_S0_GPU_VDDRH1	PP1V8R2V0_S0_GPU_VDDRH1 - @m38a_lib.M38A	87B3
PP1V8R3V3_S0_GPU_VDDR4_F	PP1V8R3V3_S0_GPU_VDDR4_F - @m38a_lib.M38A	91B6
PP1V8R3V3_S0_GPU_VDDR5_F	PP1V8R3V3_S0_GPU_VDDR5_F - @m38a_lib.M38A	91B6
PP1V8_FB_A0_VDDA0	PP1V8_FB_A0_VDDA0 - @m38a_lib.M38A	89D7
PP1V8_FB_A0_VDDA1	PP1V8_FB_A0_VDDA1 - @m38a_lib.M38A	89D7
PP1V8_FB_A1_VDDA0	PP1V8_FB_A1_VDDA0 - @m38a_lib.M38A	89D4
PP1V8_FB_A1_VDDA1	PP1V8_FB_A1_VDDA1 - @m38a_lib.M38A	89D4
PP1V8_FB_B0_VDDA0	PP1V8_FB_B0_VDDA0 - @m38a_lib.M38A	90D7
PP1V8_FB_B0_VDDA1	PP1V8_FB_B0_VDDA1 - @m38a_lib.M38A	90D7
PP1V8_FB_B1_VDDA0	PP1V8_FB_B1_VDDA0 - @m38a_lib.M38A	90D4
PP1V8_FB_B1_VDDA1	PP1V8_FB_B1_VDDA1 - @m38a_lib.M38A	90D4
PP1V8_S3_PGOOD	PP1V8_S3_PGOOD - @m38a_lib.M38A	79B2
PP2V5 S0_PGOOD	PP2V5 S0_PGOOD - @m38a_lib.M38A	77C6 77D3
PP2V5_ENET_CTAP	PP2V5_ENET_CTAP - @m38a_lib.M38A	43D7
PP2V5_S0_GPU_A2VDD	PP2V5_S0_GPU_A2VDD - @m38a_lib.M38A	93B7
PP2V5_S0_GPU_AVDD	PP2V5_S0_GPU_AVDD - @m38a_lib.M38A	93C7
PP2V5_S0_GPU_LPVDD	PP2V5_S0_GPU_LPVDD - @m38a_lib.M38A	93B7
PP2V5_S0_GPU_LVDDR	PP2V5_S0_GPU_LVDDR - @m38a_lib.M38A	93B7
PP2V5_S0_GPU_PVDD_F	PP2V5_S0_GPU_PVDD_F - @m38a_lib.M38A	91A6
PP2V5_S0_GPU_TPVDD	PP2V5_S0_GPU_TPVDD - @m38a_lib.M38A	93C7
PP2V5_S0_GPU_TXVDDR	PP2V5_S0_GPU_TXVDDR - @m38a_lib.M38A	93C7
PP2V5_S0_GPU_VDD1DI	PP2V5_S0_GPU_VDD1DI - @m38a_lib.M38A	93C8
PP2V5_S0_GPU_VDD2DI	PP2V5_S0_GPU_VDD2DI - @m38a_lib.M38A	93B8
PP3V3R12V_LCD_CONN	PP3V3R12V_LCD_CONN - @m38a_lib.M38A	94A6 94A6 94A7 94C5
PP3V3_AUDIO_SPDIF_EMI	PP3V3_AUDIO_SPDIF_EMI - @m38a_lib.M38A	73B7
PP3V3_AUDIO_SPDIF_JACK	PP3V3_AUDIO_SPDIF_JACK - @m38a_lib.M38A	73B5 73D8
PP3V3_AVCC_SMC	PP3V3_AVCC_SMC - @m38a_lib.M38A	58D3
PP3V3_AVREF_SMC	PP3V3_AVREF_SMC - @m38a_lib.M38A	58D2 59A3
PP3V3_FW_ESD	PP3V3_FW_ESD - @m38a_lib.M38A	46A5 46A6 46B5 46C5 46D5
PP3V3_FW_ESD_F	PP3V3_FW_ESD_F - @m38a_lib.M38A	46A7
PP3V3_INTERCON	PP3V3_INTERCON - @m38a_lib.M38A	72C7
PP3V3_LCD_SW	PP3V3_LCD_SW - @m38a_lib.M38A	94C6
PP3V3_S0_CK410_VDD48	PP3V3_S0_CK410_VDD48 - @m38a_lib.M38A	33D5
PP3V3_S0_CK410_VDDA	PP3V3_S0_CK410_VDDA - @m38a_lib.M38A	33C6
PP3V3_S0_CK410_VDD_CPU_SRC	PP3V3_S0_CK410_VDD_CPU_SRC - @m38a_lib.M38A	33D6
PP3V3_S0_CK410_VDD_PCI	PP3V3_S0_CK410_VDD_PCI - @m38a_lib.M38A	33D5
PP3V3_S0_CK410_VDD_REF	PP3V3_S0_CK410_VDD_REF - @m38a_lib.M38A	33C5
PP3V3_S0_IMVP6_3V3	PP3V3_S0_IMVP6_3V3 - @m38a_lib.M38A	75D6
PP3V3_S5_FW_VDDA	PP3V3_S5_FW_VDDA - @m38a_lib.M38A	44D5 45C6
PP3V3_S5_SB_RTC	PP3V3_S5_SB_RTC - @m38a_lib.M38A	5D2 21D6 24B3 25A3 26D7
PP3V3_SO_2V5REG_R	PP3V3_SO_2V5REG_R - @m38a_lib.M38A	77D3
PP3V3_TPM_3VSB	PP3V3_TPM_3VSB - @m38a_lib.M38A	59C5 67C4
PP4V5_AUDIO_ANALOG	PP4V5_AUDIO_ANALOG - @m38a_lib.M38A	68A2 68D2 74C4 74D8
PP5V_BNDI_LE340	PP5V_BNDI_LE340 - @m38a_lib.M38A	47D3
PP5V_S0_DDC	PP5V_S0_DDC - @m38a_lib.M38A	97D4
PP5V_S0_DDC_FUSE	PP5V_S0_DDC_FUSE - @m38a_lib.M38A	97D5
PP5V_S0_GPUVCORE_VCC	PP5V_S0_GPUVCORE_VCC - @m38a_lib.M38A	85D7 88D8
PP5V_S0_IMVP6_VDD	PP5V_S0_IMVP6_VDD - @m38a_lib.M38A	75D6
PP5V_S0_SB_V5REF	PP5V_S0_SB_V5REF - @m38a_lib.M38A	24D5 25D7
PP5V_S3_BNDI	PP5V_S3_BNDI - @m38a_lib.M38A	47B2 47D1
PP5V_S5_SB_V5REF_SUS	PP5V_S5_SB_V5REF_SUS - @m38a_lib.M38A	24D5 25C7
PP5V_USB2_PORT0	PP5V_USB2_PORT0 - @m38a_lib.M38A	47D6
PP5V_USB2_PORT0_F	PP5V_USB2_PORT0_F - @m38a_lib.M38A	47D4
PP5V_USB2_PORT1	PP5V_USB2_PORT1 - @m38a_lib.M38A	47C6
PP5V_USB2_PORT1_F	PP5V_USB2_PORT1_F - @m38a_lib.M38A	47C5
PP5V_USB2_PORT2	PP5V_USB2_PORT2 - @m38a_lib.M38A	47B6
PP5V_USB2_PORT2_F	PP5V_USB2_PORT2_F - @m38a_lib.M38A	47B4
PP12V_AUD_SPKRAMP_PLANE	PP12V_AUD_SPKRAMP_PLANE - @m38a_lib.M38A	72D5
PP12V_L7502	PP12V_L7502 - @m38a_lib.M38A	76D7
PP12V_S5_CPU_REG	PP12V_S5_CPU_REG - @m38a_lib.M38A	75C3 75D4 75D7 76C8 76D6
PPFW_PORT0_VP	PPFW_PORT0_VP - @m38a_lib.M38A	46D2
	PPFW_PORT1_VP - @m38a_lib.M38A	46B2 46D1
	PPFW_PORTS_VP - @m38a_lib.M38A	46D3
PPFW_PORT0_VP_FL	PPFW_PORT0_VP_FL - @m38a_lib.M38A	46C2
PPFW_PORT1_VP_FL	PPFW_PORT1_VP_FL - @m38a_lib.M38A	46B2
PPVCORE_S0_GPU_MPVDD	PPVCORE_S0_GPU_MPVDD - @m38a_lib.M38A	91A6
PPVCORE_S0_GPU_VDDCI	PPVCORE_S0_GPU_VDDCI - @m38a_lib.M38A	86C7
PPVIN_S5_IMVP6_VIN	PPVIN_S5_IMVP6_VIN - @m38a_lib.M38A	75D6
PPV_3V3_AUDIO_CODEC	PPV_3V3_AUDIO_CODEC - @m38a_lib.M38A	68D6
Q4201_3	Q4201_3 - @m38a_lib.M38A	42D6
Q5950_1	Q5950_1 - @m38a_lib.M38A	60A7
R6000_1	R6000_1 - @m38a_lib.M38A	60A6
R6001_1	R6001_1 - @m38a_lib.M38A	60A6
R6002_1	R6002_1 - @m38a_lib.M38A	60A6
R6003_2	R6003_2 - @m38a_lib.M38A	60A5
R7504_1	R7504_1 - @m38a_lib.M38A	75A8 75C1
R7507_1	R7507_1 - @m38a_lib.M38A	75A6 75B1
R8599_2	R8599_2 - @m38a_lib.M38A	85C4
RSMRST_PWRGD	RSMRST_PWRGD - @m38a_lib.M38A	58D7 76D1
SATA_A_D2R_N	SATA_A_D2R_N - @m38a_lib.M38A	21B6 38A6
	TP_SATA_A_D2R_N - @m38a_lib.M38A	38A5
SATA_A_D2R_P	SATA_A_D2R_P - @m38a_lib.M38A	21B6 38A6
	TP_SATA_A_D2R_P - @m38a_lib.M38A	38A5
SATA_A_R2D_C_N	SATA_A_R2D_C_N - @m38a_lib.M38A	21B6 38A6
	TP_SATA_A_R2D_N - @m38a_lib.M38A	38A5
SATA_A_R2D_C_P	SATA_A_R2D_C_P - @m38a_lib.M38A	21B6 38A6
	TP_SATA_A_R2D_P - @m38a_lib.M38A	38A5
SATA_C_D2R_C_N	SATA_C_D2R_C_N - @m38a_lib.M38A	38B8
SATA_C_D2R_C_P	SATA_C_D2R_C_P - @m38a_lib.M38A	38B8
SATA_C_D2R_N	SATA_C_D2R_N - @m38a_lib.M38A	21B6 38B6
SATA_C_D2R_P	SATA_C_D2R_P - @m38a_lib.M38A	21B6 38B6
SATA_C_DET_L	SATA_C_DET_L - @m38a_lib.M38A	23D2 38B5
SATA_C_PWR_EN_L	SATA_C_PWR_EN_L - @m38a_lib.M38A	23A3 23B3
SATA_C_R2D_C_N	SATA_C_R2D_C_N - @m38a_lib.M38A	21B6 38B6
SATA_C_R2D_C_P	SATA_C_R2D_C_P - @m38a_lib.M38A	21B6 38B6
SATA_C_R2D_N	SATA_C_R2D_N - @m38a_lib.M38A	38B8
SATA_C_R2D_P	SATA_C_R2D_P - @m38a_lib.M38A	38B8
SATA_RBIAS_N	SATA_RBIAS_N - @m38a_lib.M38A	21B6 38C7
	SATA_RBIAS_P - @m38a_lib.M38A	21B6 38C7
	SATA_RBIAS - @m38a_lib.M38A	38C7
	SATA_RBIAS_P - @m38a_lib.M38A	21B6 38C7
	SATA_RBIAS - @m38a_lib.M38A	38C7
SB_A20GATE	SB_A20GATE - @m38a_lib.M38A	21C4
SB_ACZ_BITCLK	SB_ACZ_BITCLK - @m38a_lib.M38A	21C6
SB_ACZ_RST_L	SB_ACZ_RST_L - @m38a_lib.M38A	21C6
SB_ACZ_SDATAOUT	SB_ACZ_SDATAOUT - @m38a_lib.M38A	21C6
SB_ACZ_SYNC	SB_ACZ_SYNC - @m38a_lib.M38A	21C6
SB_CLK14P3M_TIMER	SB_CLK14P3M_TIMER - @m38a_lib.M38A	5B8 23D3 34D4
SB_CLK48M_USBCTLR	SB_CLK48M_USBCTLR - @m38a_lib.M38A	5B8 23D3 34C4
SB_CLK100M_DMI_N	SB_CLK100M_DMI_N - @m38a_lib.M38A	5B8 22C2 34A4 34C2
SB_CLK100M_DMI_P	SB_CLK100M_DMI_P - @m38a_lib.M38A	5B8 22C2 34A4 34C2
SB_CLK100M_SATA_N	SB_CLK100M_SATA_N - @m38a_lib.M38A	5C8 21B6 34B4 34C2
SB_CLK100M_SATA_OE_L	SB_CLK100M_SATA_OE_L - @m38a_lib.M38A	23C3 33B4
SB_CLK100M_SATA_P	SB_CLK100M_SATA_P - @m38a_lib.M38A	5C8 21B6 34B4 34C2
SB_CRT_TVOUT_MUX	SB_CRT_TVOUT_MUX - @m38a_lib.M38A	22B5
SB_GPIO2	SB_GPIO2 - @m38a_lib.M38A	22A6 26C2
SB_GPIO3	SB_GPIO3 - @m38a_lib.M38A	22A6 26C2
SB_GPIO4	SB_GPIO4 - @m38a_lib.M38A	22A6 26C2
SB_GPIO19	SB_GPIO19 - @m38a_lib.M38A	23D3
SB_GPIO21	SB_GPIO21 - @m38a_lib.M38A	23D3
SB_GPIO26	SB_GPIO26 - @m38a_lib.M38A	23C7
SB_GPIO29	SB_GPIO29 - @m38a_lib.M38A	22C4 22D8
SB_GPIO30	SB_GPIO30 - @m38a_lib.M38A	22C4 22D8
SB_GPIO31	SB_GPIO31 - @m38a_lib.M38A	22C4 22D8
SB_GPIO37	SB_GPIO37 - @m38a_lib.M38A	23D3
SB_INTVRMEN	SB_INTVRMEN - @m38a_lib.M38A	21D6
SB_RTC_RST_L	SB_RTC_RST_L - @m38a_lib.M38A	21D6 26C7
SB_RTC_X1	SB_RTC_X1 - @m38a_lib.M38A	21D6 26D7
SB_RTC_X2	SB_RTC_X2 - @m38a_lib.M38A	21D6 26D7
SB_SM_INTRUDER_L	SB_SM_INTRUDER_L - @m38a_lib.M38A	21D6 26C7
SB_SPKR	SB_SPKR - @m38a_lib.M38A	23C5
SC_RX_L	SC_RX_L - @m38a_lib.M38A	58C5 59B6 59C4
SC_TX_L	SC_TX_L - @m38a_lib.M38A	58C5 59B4 59B6
SDVO_CTRLCLK	SDVO_CTRLCLK - @m38a_lib.M38A	14B6 19A2
	TP_SDVO_CTRLCLK - @m38a_lib.M38A	19A1
SDVO_CTRLDATA	SDVO_CTRLDATA - @m38a_lib.M38A	14B6 19A2
	TP_SDVO_CTRLDATA - @m38a_lib.M38A	19A1
SMB_ALERT_L	SMB_ALERT_L - @m38a_lib.M38A	23C5
SMB_BSA_CLK	SMB_BSA_CLK - @m38a_lib.M38A	58B5 59D1
SMB_BSA_DATA	SMB_BSA_DATA - @m38a_lib.M38A	58B5 59D1
SMB_BSB_CLK	SMB_BSB_CLK - @m38a_lib.M38A	58C5 59D1
SMB_BSB_DATA	SMB_BSB_DATA - @m38a_lib.M38A	58C7 59D1
SMB_LINK_ALERT_L	SMB_LINK_ALERT_L - @m38a_lib.M38A	23D5
SMC_ADAPTER_EN	SMC_ADAPTER_EN - @m38a_lib.M38A	58D5 59D5
	TP_SMC_ADAPTER_EN - @m38a_lib.M38A	59D3
SMC_ANALOG_ID	SMC_ANALOG_ID - @m38a_lib.M38A	58A7 59C6
	NC_SMC_ANALOG_ID - @m38a_lib.M38A	59C5
SMC_BATT_CHG_EN	SMC_BATT_CHG_EN - @m38a_lib.M38A	58D7 59D6
	NC_SMC_BATT_CHG_EN - @m38a_lib.M38A	59D5
SMC_BATT_ISENSE	SMC_BATT_ISENSE - @m38a_lib.M38A	58D5 59B6
	UNUSED_SMC_SENSE - @m38a_lib.M38A	59B5 59B5 59B6
	SMC_FWIRE_ISENSE - @m38a_lib.M38A	58D5 59B6
	UNUSED_SMC_SENSE - @m38a_lib.M38A	59B5 59B5 59B6
	SMC_FWIRE_ISENSE - @m38a_lib.M38A	58D5 59B6
SMC_BATT_ISET	SMC_BATT_ISET - @m38a_lib.M38A	58B5 59D6
	NC_SMC_BATT_ISET - @m38a_lib.M38A	59D5
SMC_BATT_TRICKLE_EN_L	SMC_BATT_TRICKLE_EN_L - @m38a_lib.M38A	58D7 59D6
	NC_SMC_BATT_TRICKLE_EN_L - @m38a_lib.M38A	59D5
SMC_BATT_VSET	SMC_BATT_VSET - @m38a_lib.M38A	58B5 59D6
	NC_SMC_BATT_VSET - @m38a_lib.M38A	59D5
SMC_BC_ACOK	SMC_BC_ACOK - @m38a_lib.M38A	58C5 59B4
SMC_BS_ALRT_L	SMC_BS_ALRT_L - @m38a_lib.M38A	58C5 59B4
SMC_CASE_OPEN	SMC_CASE_OPEN - @m38a_lib.M38A	58C5 59C1
SMC_CPU_ISENSE	SMC_CPU_ISENSE - @m38a_lib.M38A	58D5 76D2
SMC_CPU_RESET_3_3_L	SMC_CPU_RESET_3_3_L - @m38a_lib.M38A	58B5 59A7
SMC_CPU_VSENSE	SMC_CPU_VSENSE - @m38a_lib.M38A	58D5 76B2
SMC_DCIN_ISENSE	SMC_DCIN_ISENSE - @m38a_lib.M38A	58D5 76D5
SMC_EXCARD_CP	SMC_EXCARD_CP - @m38a_lib.M38A	58B7 59C4
SMC_EXCARD_PWR_EN	SMC_EXCARD_PWR_EN - @m38a_lib.M38A	58B7 59C5
	TP_SMC_EXCARD_PWR_EN - @m38a_lib.M38A	59C3
SMC_EXCARD_PWR_OC_L	SMC_EXCARD_PWR_OC_L - @m38a_lib.M38A	58B7 59C4
SMC_EXTAL	SMC_EXTAL - @m38a_lib.M38A	58C3 59B8
SMC_EXTSMI_L	SMC_EXTSMI_L - @m38a_lib.M38A	23B8 58B7
SMC_FAN_0_CTL	SMC_FAN_0_CTL - @m38a_lib.M38A	58B7 65D8
	FAN_RPM0 - @m38a_lib.M38A	65D7
SMC_FAN_0_TACH	SMC_FAN_0_TACH - @m38a_lib.M38A	58B7 65C8
SMC_FAN_1_CTL	SMC_FAN_1_CTL - @m38a_lib.M38A	58B7 65B8
	FAN_RPM1 - @m38a_lib.M38A	65B7
SMC_FAN_1_TACH	SMC_FAN_1_TACH - @m38a_lib.M38A	58B7 65A8
SMC_FAN_2_CTL	SMC_FAN_2_CTL - @m38a_lib.M38A	58B7 66C7
	FAN_RPM2 - @m38a_lib.M38A	66C7
SMC_FAN_2_TACH	SMC_FAN_2_TACH - @m38a_lib.M38A	58B7 66C8
SMC_FAN_3_CTL	SMC_FAN_3_CTL - @m38a_lib.M38A	58B7 59C5
	TP_SMC_FAN_3_CTL - @m38a_lib.M38A	59C3
SMC_FAN_3_TACH	SMC_FAN_3_TACH - @m38a_lib.M38A	58B7 59C5
	TP_SMC_FAN_3_TACH - @m38a_lib.M38A	59C3
SMC_FWE	SMC_FWE - @m38a_lib.M38A	58B5 59B4
SMC_GPU_VSENSE	SMC_GPU_VSENSE - @m38a_lib.M38A	58D5 59B3
SMC_LID	SMC_LID - @m38a_lib.M38A	58B5 59C1
SMC_LRESET_L	SMC_LRESET_L - @m38a_lib.M38A	6C7 58C7
SMC_MANUAL_RST_L	SMC_MANUAL_RST_L - @m38a_lib.M38A	5D1 59D8
SMC_MD1	SMC_MD1 - @m38a_lib.M38A	58C1 60C3
SMC_MEM_ISENSE	SMC_MEM_ISENSE - @m38a_lib.M38A	58A7 59B6
	NC_SMC_MEM_ISENSE - @m38a_lib.M38A	59B5
SMC_NB_ISENSE	SMC_NB_ISENSE - @m38a_lib.M38A	58A7 59B6
	NC_SMC_NB_ISENSE - @m38a_lib.M38A	59B5
SMC_NMI	SMC_NMI - @m38a_lib.M38A	58C1 60C2
SMC_ODD_DETECT	SMC_ODD_DETECT - @m38a_lib.M38A	58B7 59C4
SMC_ONOFF_L	SMC_ONOFF_L - @m38a_lib.M38A	58C5 59B7 59C4
SMC_PB7	SMC_PB7 - @m38a_lib.M38A	59C5 59C5
	TP_SMC_PB7 - @m38a_lib.M38A	59C3 59C3
SMC_PBUS_VSENSE	SMC_PBUS_VSENSE - @m38a_lib.M38A	58D5 76C6
SMC_PBUS_VSENSE_R	SMC_PBUS_VSENSE_R - @m38a_lib.M38A	76C8
SMC_PF0	SMC_PF0 - @m38a_lib.M38A	58B5 59D5
	TP_SMC_PF0 - @m38a_lib.M38A	59D3
SMC_PF1	SMC_PF1 - @m38a_lib.M38A	58B5 59D5
	TP_SMC_PF1 - @m38a_lib.M38A	59D3
SMC_PM_G2_EN	SMC_PM_G2_EN - @m38a_lib.M38A	58D5 59D5
	TP_PM_G2_EN - @m38a_lib.M38A	59D3
SMC_PROCHOT	SMC_PROCHOT - @m38a_lib.M38A	58B5 59C7
SMC_PROCHOT_3_3_L	SMC_PROCHOT_3_3_L - @m38a_lib.M38A	58D5 59A7
SMC_RCIN_L	SMC_RCIN_L - @m38a_lib.M38A	21C3 58C7
SMC_REF_GATE1	SMC_REF_GATE1 - @m38a_lib.M38A	59A5
SMC_REF_GATE2	SMC_REF_GATE2 - @m38a_lib.M38A	59A4
SMC_REF_IN	SMC_REF_IN - @m38a_lib.M38A	59A4
SMC_RSTGATE_L	SMC_RSTGATE_L - @m38a_lib.M38A	58D7
SMC_RST_L	SMC_RST_L - @m38a_lib.M38A	58C3 59D7 60C2
SMC_RUNTIME_SCI_L	SMC_RUNTIME_SCI_L - @m38a_lib.M38A	23C8 58B7
SMC_RX_L	SMC_RX_L - @m38a_lib.M38A	5D1 58C7 59B4 59B5 60C2
SMC_SB_NMI	SMC_SB_NMI - @m38a_lib.M38A	23C3 58D7
SMC_SMB_0_CLK	SMC_SMB_0_CLK - @m38a_lib.M38A	58C7 59D1
	TP_SMC_SMB_0_CLK - @m38a_lib.M38A	59D1
SMC_SMB_0_DATA	SMC_SMB_0_DATA - @m38a_lib.M38A	58C5 59D1
	TP_SMC_SMB_0_DATA - @m38a_lib.M38A	59D1
SMC_SYS_ISET	SMC_SYS_ISET - @m38a_lib.M38A	58B5 59D6
	NC_SMC_SYS_ISET - @m38a_lib.M38A	59D5
SMC_SYS_KBDLED	SMC_SYS_KBDLED - @m38a_lib.M38A	58C7 59D5
	TP_SMC_SYS_KBDLED - @m38a_lib.M38A	59D3
SMC_SYS_LED	SMC_SYS_LED - @m38a_lib.M38A	58C7 60A8
SMC_SYS_LED_16B	SMC_SYS_LED_16B - @m38a_lib.M38A	58C7 60A8
SMC_SYS_VSET	SMC_SYS_VSET - @m38a_lib.M38A	58B5 59D6
	NC_SMC_SYS_VSET - @m38a_lib.M38A	59D5
SMC_TCK	SMC_TCK - @m38a_lib.M38A	5D1 58C5 59B4 60C2
SMC_TDI	SMC_TDI - @m38a_lib.M38A	5D1 58B5 59B4 60C2
SMC_TDO	SMC_TDO - @m38a_lib.M38A	5D1 58B5 59B4 60C3
SMC_THRMTRIP	SMC_THRMTRIP - @m38a_lib.M38A	58B5 59C7
SMC_TMS	SMC_TMS - @m38a_lib.M38A	5D1 58B5 59B4 60C3
SMC_TPM_GPIO	SMC_TPM_GPIO - @m38a_lib.M38A	58D5 59B6
SMC_TPM_PP	SMC_TPM_PP - @m38a_lib.M38A	58C7 59A6
SMC_TPM_RESET_L	SMC_TPM_RESET_L - @m38a_lib.M38A	58B7 59C6 67B7
SMC_TRST_L	SMC_TRST_L - @m38a_lib.M38A	5D1 58C1 60C3
SMC_TX_L	SMC_TX_L - @m38a_lib.M38A	5D1 58C7 59B4 59B5 60C3
SMC_VCL	SMC_VCL - @m38a_lib.M38A	58D3

SMC_WAKE_SCI_L	SMC_WAKE_SCI_L - @m38a_lib.M38A	23C1 58D5
SMC_XDP_TCK	SMC_XDP_TCK - @m38a_lib.M38A	58C7
SMC_XDP_TCK_3_3	SMC_XDP_TCK_3_3 - @m38a_lib.M38A	58B5 59A5
SMC_XDP_TDO_3_3_L	SMC_XDP_TDO_3_3_L - @m38a_lib.M38A	58B7 59A5
SMC_XDP_TMS_L	SMC_XDP_TMS_L - @m38a_lib.M38A	58C7
SMC_XDP_TRST_L	SMC_XDP_TRST_L - @m38a_lib.M38A	58C7
SMC_XTAL	SMC_XTAL - @m38a_lib.M38A	58C3 59B8
SMLINK<0>	SMLINK<0> - @m38a_lib.M38A	23D5
SMLINK<1>	SMLINK<1> - @m38a_lib.M38A	23D5
SMS_INT_L	SMS_INT_L - @m38a_lib.M38A	23C3 26C2 58B5
SMS_ONOFF_L	SMS_ONOFF_L - @m38a_lib.M38A	58A5 59B4
SMS_X_AXIS	SMS_X_AXIS - @m38a_lib.M38A	58B7 59B6
	NC_SMS_X_AXIS - @m38a_lib.M38A	59B5
SMS_Y_AXIS	SMS_Y_AXIS - @m38a_lib.M38A	58B7 59B6
	NC_SMS_Y_AXIS - @m38a_lib.M38A	59B5
SMS_Z_AXIS	SMS_Z_AXIS - @m38a_lib.M38A	58A7 59B6
	NC_SMS_Z_AXIS - @m38a_lib.M38A	59B5
SPARE_SRC3_N	SPARE_SRC3_N - @m38a_lib.M38A	34D2
SPARE_SRC3_P	SPARE_SRC3_P - @m38a_lib.M38A	34D2
SPARE_SRC7_N	SPARE_SRC7_N - @m38a_lib.M38A	34D2
SPARE_SRC7_P	SPARE_SRC7_P - @m38a_lib.M38A	34D2
SPI_ARB	SPI_ARB - @m38a_lib.M38A	22C6 58D5
SPI_CE_L	SPI_CE_L - @m38a_lib.M38A	22C6 58B5 63C7
SPI_HOLD_L	SPI_HOLD_L - @m38a_lib.M38A	63C4
SPI_SCLK	SPI_SCLK - @m38a_lib.M38A	22C6 58D5 63C7
SPI_SCLK_R	SPI_SCLK_R - @m38a_lib.M38A	63C4
SPI_SI	SPI_SI - @m38a_lib.M38A	22C6 58D5 63C1
SPI_SI_R	SPI_SI_R - @m38a_lib.M38A	63C3
SPI_SO	SPI_SO - @m38a_lib.M38A	22C6 58D5 63C1
SPI_SO_R	SPI_SO_R - @m38a_lib.M38A	63C3
SPI_WP_L	SPI_WP_L - @m38a_lib.M38A	63C4
SPKRAMP_MUTE	SPKRAMP_MUTE - @m38a_lib.M38A	72B5
SPKRAMP_SS	SPKRAMP_SS - @m38a_lib.M38A	72B4
SUS_CLK_SB	SUS_CLK_SB - @m38a_lib.M38A	23C3 59B5
	SMC_SUS_CLK - @m38a_lib.M38A	58C5 59B6
SV_SET_UP	SV_SET_UP - @m38a_lib.M38A	23B6 23C3 60C1
SW_RST_BTN_L	SW_RST_BTN_L - @m38a_lib.M38A	5D1 26C6
SW_RST_DEBNC	SW_RST_DEBNC - @m38a_lib.M38A	26C4
SYS_LED_BRT_D	SYS_LED_BRT_D - @m38a_lib.M38A	60B8
SYS_LED_C	SYS_LED_C - @m38a_lib.M38A	60A6
SYS_LED_CTL_B	SYS_LED_CTL_B - @m38a_lib.M38A	60B7
SYS_LED_CTL_C	SYS_LED_CTL_C - @m38a_lib.M38A	60B6
SYS_LED_CTL_D	SYS_LED_CTL_D - @m38a_lib.M38A	60A6
SYS_ONEWIRE	SYS_ONEWIRE - @m38a_lib.M38A	58B7 59B4
SYS_POWERFAIL_L	SYS_POWERFAIL_L - @m38a_lib.M38A	6D8 76D2
SYS_PWRUP_L	SYS_PWRUP_L - @m38a_lib.M38A	6C7
THERM_DX_N	THERM_DX_N - @m38a_lib.M38A	10B5 10C5
THERM_DX_P	THERM_DX_P - @m38a_lib.M38A	10B5 10C5
THRM_ALERT_L	THRM_ALERT_L - @m38a_lib.M38A	10D3
THRM_THM	THRM_THM - @m38a_lib.M38A	10C4
TMDS_CK_TERM	TMDS_CK_TERM - @m38a_lib.M38A	97C8
TMDS_CLK_N	TMDS_CLK_N - @m38a_lib.M38A	93C3 97C8
TMDS_CLK_P	TMDS_CLK_P - @m38a_lib.M38A	93C3 97C8
TMDS_CONN_CLKN	TMDS_CONN_CLKN - @m38a_lib.M38A	97C4 97C7
TMDS_CONN_CLKP	TMDS_CONN_CLKP - @m38a_lib.M38A	97C4 97C7
TMDS_CONN_DN<0>	TMDS_CONN_DN<0> - @m38a_lib.M38A	97C4 97D7
TMDS_CONN_DN<1>	TMDS_CONN_DN<1> - @m38a_lib.M38A	97C4 97D7
TMDS_CONN_DN<2>	TMDS_CONN_DN<2> - @m38a_lib.M38A	97C7 97D4
TMDS_CONN_DP<0>	TMDS_CONN_DP<0> - @m38a_lib.M38A	97C4 97D7
TMDS_CONN_DP<1>	TMDS_CONN_DP<1> - @m38a_lib.M38A	97C4 97D7
TMDS_CONN_DP<2>	TMDS_CONN_DP<2> - @m38a_lib.M38A	97C7 97D4
TMDS_DATA_N<0>	TMDS_DATA_N<0> - @m38a_lib.M38A	93C3 97D8
TMDS_DATA_N<1>	TMDS_DATA_N<1> - @m38a_lib.M38A	93C3 97D8
TMDS_DATA_N<2>	TMDS_DATA_N<2> - @m38a_lib.M38A	93C3 97C8
TMDS_DATA_N<3>	TMDS_DATA_N<3> - @m38a_lib.M38A	93C3 95D6
TMDS_DATA_N<4>	TMDS_DATA_N<4> - @m38a_lib.M38A	93C3 95D6
TMDS_DATA_N<5>	TMDS_DATA_N<5> - @m38a_lib.M38A	93C3 95D6
TMDS_DATA_P<0>	TMDS_DATA_P<0> - @m38a_lib.M38A	93C3 97D8
TMDS_DATA_P<1>	TMDS_DATA_P<1> - @m38a_lib.M38A	93C3 97C8
TMDS_DATA_P<2>	TMDS_DATA_P<2> - @m38a_lib.M38A	93C3 97C8
TMDS_DATA_P<3>	TMDS_DATA_P<3> - @m38a_lib.M38A	93C3 95D6
TMDS_DATA_P<4>	TMDS_DATA_P<4> - @m38a_lib.M38A	93C3 95D6
TMDS_DATA_P<5>	TMDS_DATA_P<5> - @m38a_lib.M38A	93C3 95D6
TPM_BADD	TPM_BADD - @m38a_lib.M38A	67C4
TPM_GPIO1	TPM_GPIO1 - @m38a_lib.M38A	59B5 67C6
TPM_GPIO2	TPM_GPIO2 - @m38a_lib.M38A	59B5 67C6
TPM_LRESET_L	TPM_LRESET_L - @m38a_lib.M38A	6B7 67B7
TPM_PP	TPM_PP - @m38a_lib.M38A	59A5 67C6
TPM_RST_L	TPM_RST_L - @m38a_lib.M38A	67B6
TPM_XTALI	TPM_XTALI - @m38a_lib.M38A	59B7 67C6
TPM_XTALO	TPM_XTALO - @m38a_lib.M38A	59B7 67C6
TP_ATI_ROMCS_L	TP_ATI_ROMCS_L - @m38a_lib.M38A	91A3
TP_AZ_DOCK_EN_L	TP_AZ_DOCK_EN_L - @m38a_lib.M38A	23C5
TP_AZ_DOCK_RST_L	TP_AZ_DOCK_RST_L - @m38a_lib.M38A	23C5
TP_CLK14P3M_SPARE	TP_CLK14P3M_SPARE - @m38a_lib.M38A	34C4
TP_CPU_A32_L	TP_CPU_A32_L - @m38a_lib.M38A	7C7
TP_CPU_A33_L	TP_CPU_A33_L - @m38a_lib.M38A	7B7
TP_CPU_A34_L	TP_CPU_A34_L - @m38a_lib.M38A	7B7
TP_CPU_A35_L	TP_CPU_A35_L - @m38a_lib.M38A	7B7
TP_CPU_A36_L	TP_CPU_A36_L - @m38a_lib.M38A	7B7
TP_CPU_A37_L	TP_CPU_A37_L - @m38a_lib.M38A	7B7
TP_CPU_A38_L	TP_CPU_A38_L - @m38a_lib.M38A	7B7
TP_CPU_A39_L	TP_CPU_A39_L - @m38a_lib.M38A	7B7
TP_CPU_APM0_L	TP_CPU_APM0_L - @m38a_lib.M38A	7B7
TP_CPU_APM1_L	TP_CPU_APM1_L - @m38a_lib.M38A	7B7
TP_CPU_CPUSLP_L	TP_CPU_CPUSLP_L - @m38a_lib.M38A	21C4
TP_CPU_EXTBREF	TP_CPU_EXTBREF - @m38a_lib.M38A	7B6
TP_CPU_HFPLL	TP_CPU_HFPLL - @m38a_lib.M38A	7B7
TP_CPU_SPARE0	TP_CPU_SPARE0 - @m38a_lib.M38A	7B6
TP_CPU_SPARE1	TP_CPU_SPARE1 - @m38a_lib.M38A	7B6
TP_CPU_SPARE2	TP_CPU_SPARE2 - @m38a_lib.M38A	7B6
TP_CPU_SPARE3	TP_CPU_SPARE3 - @m38a_lib.M38A	7B6
TP_CPU_SPARE4	TP_CPU_SPARE4 - @m38a_lib.M38A	7B6
TP_CPU_SPARE5	TP_CPU_SPARE5 - @m38a_lib.M38A	7B6
TP_CPU_SPARE6	TP_CPU_SPARE6 - @m38a_lib.M38A	7B6
TP_CPU_SPARE7	TP_CPU_SPARE7 - @m38a_lib.M38A	7B6
TP_FB_A_MA12	TP_FB_A_MA12 - @m38a_lib.M38A	87D5
TP_FB_A_ODT<0>	TP_FB_A_ODT<0> - @m38a_lib.M38A	87B5
TP_FB_A_ODT<1>	TP_FB_A_ODT<1> - @m38a_lib.M38A	87B5
TP_FB_B_MA12	TP_FB_B_MA12 - @m38a_lib.M38A	87D1
TP_FB_B_ODT<0>	TP_FB_B_ODT<0> - @m38a_lib.M38A	87B1
TP_FB_B_ODT<1>	TP_FB_B_ODT<1> - @m38a_lib.M38A	87B1
TP_FW_CNA	TP_FW_CNA - @m38a_lib.M38A	44B3
TP_FW_LKON	TP_FW_LKON - @m38a_lib.M38A	44B3
TP_FW_LPS	TP_FW_LPS - @m38a_lib.M38A	44B3
TP_FW_MPCIACT_L	TP_FW_MPCIACT_L - @m38a_lib.M38A	44B3
TP_FW_NANDTREE	TP_FW_NANDTREE - @m38a_lib.M38A	44B3
TP_FW_ROM_AD	TP_FW_ROM_AD - @m38a_lib.M38A	44B3
TP_FW_VAUX_PRES	TP_FW_VAUX_PRES - @m38a_lib.M38A	44B3
TP_LVDS_VBG	TP_LVDS_VBG - @m38a_lib.M38A	13D5
TP_MEM_A_A<14>	TP_MEM_A_A<14> - @m38a_lib.M38A	28C3
TP_MEM_A_A<15>	TP_MEM_A_A<15> - @m38a_lib.M38A	28C3
TP_MEM_B_A<14>	TP_MEM_B_A<14> - @m38a_lib.M38A	5B4 29C3
TP_MEM_B_A<15>	TP_MEM_B_A<15> - @m38a_lib.M38A	5B4 29C3

TP_NB_TESTIN_L	TP_NB_TESTIN_L - @m38a_lib.M38A	14D6
TP_NB_XOR_FSB2_H7	TP_NB_XOR_FSB2_H7 - @m38a_lib.M38A	14D6
TP_NB_XOR_LVDS_A34	TP_NB_XOR_LVDS_A34 - @m38a_lib.M38A	14C6
TP_NB_XOR_LVDS_A35	TP_NB_XOR_LVDS_A35 - @m38a_lib.M38A	14C6
TP_NB_XOR_LVDS_D27	TP_NB_XOR_LVDS_D27 - @m38a_lib.M38A	14C6
TP_NB_XOR_LVDS_D28	TP_NB_XOR_LVDS_D28 - @m38a_lib.M38A	14C6
TP_PCI_CLK_SPARE	TP_PCI_CLK_SPARE - @m38a_lib.M38A	5B4 34C4
TP_PCI_GNT0_L	TP_PCI_GNT0_L - @m38a_lib.M38A	22B6
TP_PCI_GNT2_L	TP_PCI_GNT2_L - @m38a_lib.M38A	22B6
TP_PCI_GNT3_L	TP_PCI_GNT3_L - @m38a_lib.M38A	22B6
TP_PCI_GNT4_L	TP_PCI_GNT4_L - @m38a_lib.M38A	22B6
TP_PCI_PME_L	TP_PCI_PME_L - @m38a_lib.M38A	22A6
TP_SB_ACZ_SDIN1	TP_SB_ACZ_SDIN1 - @m38a_lib.M38A	21C6
TP_SB_ACZ_SDIN2	TP_SB_ACZ_SDIN2 - @m38a_lib.M38A	21C6
TP_SB_DRQ0_L	TP_SB_DRQ0_L - @m38a_lib.M38A	21D4
TP_SB_GPIO6	TP_SB_GPIO6 - @m38a_lib.M38A	23C5
TP_SB_GPIO23	TP_SB_GPIO23 - @m38a_lib.M38A	21D5
TP_SB_GPIO25_DO_NOT_USE	TP_SB_GPIO25_DO_NOT_USE - @m38a_lib.M38A	23C3
TP_SB_GPIO38	TP_SB_GPIO38 - @m38a_lib.M38A	23C3
TP_SB_RSVD9	TP_SB_RSVD9 - @m38a_lib.M38A	22A6
TP_SB_SATALED_L	TP_SB_SATALED_L - @m38a_lib.M38A	21C6
TP_SB_XOR_AD5	TP_SB_XOR_AD5 - @m38a_lib.M38A	22A7
TP_SB_XOR_AD9	TP_SB_XOR_AD9 - @m38a_lib.M38A	22A7
TP_SB_XOR_AE5	TP_SB_XOR_AE5 - @m38a_lib.M38A	22A7
TP_SB_XOR_AE9	TP_SB_XOR_AE9 - @m38a_lib.M38A	22A6
TP_SB_XOR_AG4	TP_SB_XOR_AG4 - @m38a_lib.M38A	22A7
TP_SB_XOR_AG8	TP_SB_XOR_AG8 - @m38a_lib.M38A	22A6
TP_SB_XOR_AH4	TP_SB_XOR_AH4 - @m38a_lib.M38A	22A7
TP_SB_XOR_AH8	TP_SB_XOR_AH8 - @m38a_lib.M38A	22A6
TP_SB_XOR_T5	TP_SB_XOR_T5 - @m38a_lib.M38A	21C6
TP_SB_XOR_U3	TP_SB_XOR_U3 - @m38a_lib.M38A	21C6
TP_SB_XOR_U5	TP_SB_XOR_U5 - @m38a_lib.M38A	21C6
TP_SB_XOR_U7	TP_SB_XOR_U7 - @m38a_lib.M38A	21C6
TP_SB_XOR_V3	TP_SB_XOR_V3 - @m38a_lib.M38A	21C6
TP_SB_XOR_V4	TP_SB_XOR_V4 - @m38a_lib.M38A	21C6
TP_SB_XOR_V6	TP_SB_XOR_V6 - @m38a_lib.M38A	21C6
TP_SB_XOR_V7	TP_SB_XOR_V7 - @m38a_lib.M38A	21C6
TP_SB_XOR_W1	TP_SB_XOR_W1 - @m38a_lib.M38A	21C6
TP_SB_XOR_W3	TP_SB_XOR_W3 - @m38a_lib.M38A	21C6
TP_SB_XOR_Y1	TP_SB_XOR_Y1 - @m38a_lib.M38A	21C6
TP_SB_XOR_Y2	TP_SB_XOR_Y2 - @m38a_lib.M38A	21C6
TP_U8400_AG14	TP_U8400_AG14 - @m38a_lib.M38A	91A5
TP_U8900_J2	TP_U8900_J2 - @m38a_lib.M38A	89A7
TP_U8900_J3	TP_U8900_J3 - @m38a_lib.M38A	89A7
TP_U8950_J2	TP_U8950_J2 - @m38a_lib.M38A	89A4
TP_U8950_J3	TP_U8950_J3 - @m38a_lib.M38A	89A4
TP_U9000_J2	TP_U9000_J2 - @m38a_lib.M38A	90A7
TP_U9000_J3	TP_U9000_J3 - @m38a_lib.M38A	90A7
TP_U9050_J2	TP_U9050_J2 - @m38a_lib.M38A	90A4
TP_U9050_J3	TP_U9050_J3 - @m38a_lib.M38A	90A4
TSENSE_GPU_DXP	TSENSE_GPU_DXP - @m38a_lib.M38A	61C5
TSENSE_NB_DXP	TSENSE_NB_DXP - @m38a_lib.M38A	61B5
TSENSE_NB_GPU_DXN	TSENSE_NB_GPU_DXN - @m38a_lib.M38A	61B5
TV_DACA_OUT	TV_DACA_OUT - @m38a_lib.M38A	13C5 19B1
	TV_DACB_OUT - @m38a_lib.M38A	13C5 19B1
	TV_DACC_OUT - @m38a_lib.M38A	13C5 19B1
	TV_IRTNA - @m38a_lib.M38A	13C5 19B1
	TV_IRTNB - @m38a_lib.M38A	13C5 19B1
	TV_IRTNC - @m38a_lib.M38A	13C5 19B1
	TV_IREF - @m38a_lib.M38A	13C5 19B1
	PP3V3_S0_NB_VCCA_TVBG - @m38a_lib.M38A	17C6 19B1
	PP3V3_S0_NB_VCCA_TVDACC - @m38a_lib.M38A	17C6 19B1
	PP3V3_S0_NB_VCCA_TVDACB - @m38a_lib.M38A	17C6 19B1
	PP3V3_S0_NB_VCCA_TVDACA - @m38a_lib.M38A	17C6 19B1
	PP1V5_S0_NB_VCCD_TVDAC - @m38a_lib.M38A	17C6 19B1
	PP1V5_S0_NB_VCCD_QTVDAC - @m38a_lib.M38A	17B6 19A1
	=PP1V5_S0_AIRPORT - @m38a_lib.M38A	6C4 53D3
	=PP1V5_S0 - @m38a_lib.M38A	6C6 11A7 11B7 11B7 80C2
	=PP1V5_S0_SB - @m38a_lib.M38A	6C4 25A8 25C8
	=PP1V5_S0_SB_VCC1_5_A - @m38a_lib.M38A	6C4 24A3 25C1
	=PP1V5_S0_SB_VCC1_5_A_USB_CORE - @m38a_lib.M38A	6C4 24A3 25B1
	=PP1V5_S0_SB_VCCUSBPLL - @m38a_lib.M38A	6C4 24A5 25B6
	=PP1V5_S0_SB_VCC1_5_A_ATX - @m38a_lib.M38A	6C4 24A5 25C6
	=PP1V5_S0_SB_VCCSATAPLL - @m38a_lib.M38A	6C4 24B5 25D6
	=PP1V5_S0_SB_VCC1_5_A_ARX - @m38a_lib.M38A	6C4 24B5 25D6
	=PP1V5_S0_NB_3GPLL - @m38a_lib.M38A	6C4 19A6 19A6
	=PP1V5_S0_NB_PLL - @m38a_lib.M38A	6C4 19C8 19D7
	=PP1V5_S0_NB_VCCAUX - @m38a_lib.M38A	6C4 6C4 16D1 17B6 19A7 19D7
	=PP1V5_S0_NB_VCCD_HMPLL - @m38a_lib.M38A	6C4 17C6 19D7
	=PP1V5_S0_NB_PCIE - @m38a_lib.M38A	6C4 13D2 19D7
	=PP1V5_S0_CPU - @m38a_lib.M38A	6C4 8B6 8C5
	TV_IRTNC - @m38a_lib.M38A	13C5 19B1
	TV_IRTNB - @m38a_lib.M38A	13C5 19B1
	TV_IRTNA - @m38a_lib.M38A	13C5 19B1
	TV_IREF - @m38a_lib.M38A	13C5 19B1
	TV_DACC_OUT - @m38a_lib.M38A	13C5 19B1
	TV_DACB_OUT - @m38a_lib.M38A	13C5 19B1
	PP3V3_S0_NB_VCCA_TVDACC - @m38a_lib.M38A	17C6 19B1
	PP3V3_S0_NB_VCCA_TVDACB - @m38a_lib.M38A	17C6 19B1
	PP3V3_S0_NB_VCCA_TVDACA - @m38a_lib.M38A	17C6 19B1
	PP3V3_S0_NB_VCCA_TVBG - @m38a_lib.M38A	17C6 19B1
	PP1V5_S0_NB_VCCD_TVDAC - @m38a_lib.M38A	17C6 19B1
	PP1V5_S0_NB_VCCD_QTVDAC - @m38a_lib.M38A	17B6 19A1
	PP1V5_S0 - @m38a_lib.M38A	6C6 11A7 11B7 11B7 80C2
	=PP1V5_S0_SB_VCCUSBPLL - @m38a_lib.M38A	6C4 24A5 25B6
	=PP1V5_S0_SB_VCCSATAPLL - @m38a_lib.M38A	6C4 24B5 25D6
	=PP1V5_S0_SB_VCC1_5_A_USB_CORE - @m38a_lib.M38A	6C4 24A3 25B1
	=PP1V5_S0_SB_VCC1_5_A_ATX - @m38a_lib.M38A	6C4 24A5 25C6
	=PP1V5_S0_SB_VCC1_5_A_ARX - @m38a_lib.M38A	6C4 24B5 25D6

	@m38a_lib.M38A	
	=PP1V5_S0_SB_VCC1_5_A -	6C4 24A3 25C1
	@m38a_lib.M38A	
	=PP1V5_S0_SB - @m38a_lib.M38A	6C4 25A8 25C8
	=PP1V5_S0_NB_VCCD_HMPLL -	6C4 17C6 19D7
	@m38a_lib.M38A	
	=PP1V5_S0_NB_VCCAUX -	6C4 6C4 16D1 17B6 19A7
	@m38a_lib.M38A	19D7
	=PP1V5_S0_NB_TVDAC - @m38a_lib.M38A	6C4 19B2 19D7
	=PP1V5_S0_NB_PLL - @m38a_lib.M38A	6C4 19C8 19D7
	=PP1V5_S0_NB_PCIE - @m38a_lib.M38A	6C4 13D2 19D7
	=PP1V5_S0_NB_3GPLL - @m38a_lib.M38A	6C4 19A6 19A6
	=PP1V5_S0_NB - @m38a_lib.M38A	6C4 19B2 19D7
	=PP1V5_S0_CPU - @m38a_lib.M38A	6C4 8B6 8C5
	=PP1V5_S0_AIRPORT - @m38a_lib.M38A	6C4 53D3
U600_3	U600_3 - @m38a_lib.M38A	6C7
U600_6	U600_6 - @m38a_lib.M38A	6B7
U600_8	U600_8 - @m38a_lib.M38A	6B7
U600_11	U600_11 - @m38a_lib.M38A	6B7
U650_4	U650_4 - @m38a_lib.M38A	6A6
U2698_4	U2698_4 - @m38a_lib.M38A	26C4
U3100_VDDQ	U3100_VDDQ - @m38a_lib.M38A	31C5
U6100_VCC	U6100_VCC - @m38a_lib.M38A	61C4
U7400_CEXT	U7400_CEXT - @m38a_lib.M38A	74C4
U8595_1	U8595_1 - @m38a_lib.M38A	85D2
USB_A_N	USB_A_N - @m38a_lib.M38A	22C2 47D6
USB_A_OC_L	USB_A_OC_L - @m38a_lib.M38A	22C4 22D8 47B7
USB_A_P	USB_A_P - @m38a_lib.M38A	22C2 47C6
USB_B_N	USB_B_N - @m38a_lib.M38A	22C2 53B2
USB_B_OC_L	USB_B_OC_L - @m38a_lib.M38A	22C4 22D8
USB_B_P	USB_B_P - @m38a_lib.M38A	22C2 53B2
USB_CAMERA_N	USB_CAMERA_N - @m38a_lib.M38A	47B2
USB_CAMERA_P	USB_CAMERA_P - @m38a_lib.M38A	47B2
USB_C_N	USB_C_N - @m38a_lib.M38A	22C2 47B6
USB_C_OC_L	USB_C_OC_L - @m38a_lib.M38A	22C4 22D8 47B7
USB_C_P	USB_C_P - @m38a_lib.M38A	22C2 47B6
USB_D_N	USB_D_N - @m38a_lib.M38A	22C2 47B3
USB_D_OC_L	USB_D_OC_L - @m38a_lib.M38A	22C4 22D8
USB_D_P	USB_D_P - @m38a_lib.M38A	22C2 47B3
USB_E_N	USB_E_N - @m38a_lib.M38A	22C2 47A6
USB_E_OC_L	USB_E_OC_L - @m38a_lib.M38A	22C4 22D8 47B7
USB_E_P	USB_E_P - @m38a_lib.M38A	22C2 47A6
USB_F_N	USB_F_N - @m38a_lib.M38A	22C2
USB_F_P	USB_F_P - @m38a_lib.M38A	22C2
USB_G_N	USB_G_N - @m38a_lib.M38A	22C2 47A3
	USB_BT_N - @m38a_lib.M38A	47A2
USB_G_P	USB_G_P - @m38a_lib.M38A	22C2 47A3
	USB_BT_P - @m38a_lib.M38A	47A2
USB_H_N	USB_H_N - @m38a_lib.M38A	22C2 47C3
USB_H_P	USB_H_P - @m38a_lib.M38A	22C2 47C3
USB_IR_N	USB_IR_N - @m38a_lib.M38A	47C2
USB_IR_P	USB_IR_P - @m38a_lib.M38A	47C2
USB_PORT0_N	USB_PORT0_N - @m38a_lib.M38A	47D5
USB_PORT0_P	USB_PORT0_P - @m38a_lib.M38A	47C5
USB_PORT1_N	USB_PORT1_N - @m38a_lib.M38A	47B5
USB_PORT1_P	USB_PORT1_P - @m38a_lib.M38A	47B5
USB_PORT2_N	USB_PORT2_N - @m38a_lib.M38A	47A5
USB_PORT2_P	USB_PORT2_P - @m38a_lib.M38A	47A5
USB_RBIAS_PN	USB_RBIAS_PN - @m38a_lib.M38A	22C2
VGA_B	VGA_B - @m38a_lib.M38A	97B6 97C5
VGA_G	VGA_G - @m38a_lib.M38A	97A6 97C5
VGA_HSYNC	VGA_HSYNC - @m38a_lib.M38A	97A3 97C5
VGA_R	VGA_R - @m38a_lib.M38A	97A6 97C5
VGA_VSYNC	VGA_VSYNC - @m38a_lib.M38A	97B3 97C5
VMAIN_AVLBL	VMAIN_AVLBL - @m38a_lib.M38A	41C7
VREG_FB	VREG_FB - @m38a_lib.M38A	68A3
VR_PWRGD_CK410	VR_PWRGD_CK410 - @m38a_lib.M38A	23C5 26A8
VR_PWRGOOD_DELAY	VR_PWRGOOD_DELAY - @m38a_lib.M38A	5C7 14B6 26D5 75C6
XDP_BPM_L<0>	XDP_BPM_L<0> - @m38a_lib.M38A	7C6 11B3
XDP_BPM_L<1>	XDP_BPM_L<1> - @m38a_lib.M38A	7C6 11B3
XDP_BPM_L<2>	XDP_BPM_L<2> - @m38a_lib.M38A	7C6 11B3
XDP_BPM_L<3>	XDP_BPM_L<3> - @m38a_lib.M38A	7C6 11B3
XDP_BPM_L<4>	XDP_BPM_L<4> - @m38a_lib.M38A	7C6 11B3
XDP_BPM_L<5>	XDP_BPM_L<5> - @m38a_lib.M38A	7C6 11B1 11B3
XDP_DBRESET_L	XDP_DBRESET_L - @m38a_lib.M38A	7C6 11B4 26B5
XDP_TCK	XDP_TCK - @m38a_lib.M38A	5D1 7A8 7C6 11B3 11B3
XDP_TDI	XDP_TDI - @m38a_lib.M38A	5D1 7B8 7C6 11B3
XDP_TDO	XDP_TDO - @m38a_lib.M38A	5D1 7C6 11B5
XDP_TMS	XDP_TMS - @m38a_lib.M38A	5D1 7B8 7C6 11B3
XDP_TRST_L	XDP_TRST_L - @m38a_lib.M38A	5D1 7C6 11B3
ZH701P1	ZH701P1 - @m38a_lib.M38A	6A3
ZH702P1	ZH702P1 - @m38a_lib.M38A	6A3
ZH703P1	ZH703P1 - @m38a_lib.M38A	6A3
ZH704P1	ZH704P1 - @m38a_lib.M38A	6B3

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Design: m38a
Date: Jun 21 19:41:15 2006

C85A0	CAP_402	m38a[85D1]
C600	CAP_402	m38a[6C7]
C601	CAP_402	m38a[6A3]
C602	CAP_402	m38a[6A3]
C603	CAP_402	m38a[6A3]
C604	CAP_402	m38a[6A4]
C610	CAP_402	m38a[6C7]
C650	CAP_402	m38a[6A7]
C699	CAP_P_CASE-C1	m38a[6D7]
C0800	CAP_402	m38a[8B5]
C0801	CAP_603	m38a[8B5]
C900	CAP_805	m38a[9B6]
C901	CAP_805	m38a[9B6]
C902	CAP_805	m38a[9A6]
C903	CAP_805	m38a[9A6]
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C906	CAP_805	m38a[9A6]
C907	CAP_805	m38a[9B5]
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C930	CAP_805	m38a[9A6]
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C937	CAP_402	m38a[9B6]
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C939	CAP_805	m38a[9A5]
C940	CAP_P_CASE-C1	m38a[9C7]
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C942	CAP_P_3P_D2T	m38a[9A7]
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C944	CAP_P_3P_D2T	m38a[9A7]
C945	CAP_P_3P_D2T	m38a[9A6]
C946	CAP_P_3P_D2T	m38a[9A6]
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C1000	CAP_402	m38a[10C6]
C1001	CAP_402	m38a[10D4]
C1100	CAP_402	m38a[11A3]
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C1199	CAP_402	m38a[11B2]
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C1226	CAP_402	m38a[12B6]
C1236	CAP_402	m38a[12A6]
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C1620	CAP_805-1	m38a[16B5]
C1621	CAP_805-1	m38a[16B5]
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C1713	CAP_402	m38a[17B3]
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C1902	CAP_805-1	m38a[19B5]
C1903	CAP_805-1	m38a[19B4]
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C1905	CAP_402	m38a[19B4]
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C1934	CAP_805	m38a[19C7]
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C1936	CAP_805	m38a[19C7]
C1937	CAP_402	m38a[19C7]
C1965	CAP_603	m38a[19B8]
C1966	CAP_603	m38a[19B7]
C1967	CAP_402	m38a[19B7]
C1968	CAP_P_CASE-C1	m38a[19B7]
C1970	CAP_P_SMB2	m38a[19A5]
C1971	CAP_805-1	m38a[19A4]
C1972	CAP_805-1	m38a[19A4]
C1975	CAP_805-1	m38a[19A4]
C1976	CAP_402	m38a[19A4]
C1981	CAP_603	m38a[19B6]
C1982	CAP_603	m38a[19B8]
C2500	CAP_P_SMB2	m38a[25B8]
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C2502	CAP_402	m38a[25D4]
C2503	CAP_402	m38a[25D8]
C2504	CAP_402	m38a[25C8]
C2505	CAP_402	m38a[25B7]
C2506	CAP_402	m38a[25B7]
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C2511	CAP_402	m38a[25D6]
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C2923	CAP_402	m38a[29B1]
C2950	CAP_603	m38a[29D6]
C2951	CAP_603	m38a[29A7]
C2952	CAP_402	m38a[29A6]
C3004	CAP_402	m38a[30B4]
C3005	CAP_402	m38a[30D4]
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C3007	CAP_402	m38a[30D3]
C3008	CAP_402	m38a[30A3]
C3009	CAP_402	m38a[30A4]
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C3014	CAP_402	m38a[30A4]
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C3033	CAP_402	m38a[30C3]
C3035	CAP_402	m38a[30C3]
C3100	CAP_402	m38a[31C4]
C3101	CAP_805-1	m38a[31B6]
C3102	CAP_805-1	m38a[31B4]
C3105	CAP_P_SMC-LF	m38a[31B4]
C3109	CAP_603	m38a[31C5]
C3110	CAP_402	m38a[31B6]
C3301	CAP_402	m38a[33D6]
C3302	CAP_402	m38a[33D6]
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C3315	CAP_402	m38a[33D7]
C3316	CAP_805-1	m38a[33D7]
C3317	CAP_805-1	m38a[33D4]
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C3801	CAP_402	m38a[38B7]
C3802	CAP_402	m38a[38B7]
C3803	CAP_402	m38a[38B7]
C3804	CAP_402	m38a[38C3]
C3805	CAP_402	m38a[38C2]
C3806	CAP_805-2	m38a[38C1]
C4101	CAP_402	m38a[41D7]
C4102	CAP_402	m38a[41D6]
C4103	CAP_402	m38a[41D6]
C4104	CAP_402	m38a[41D6]
C4105	CAP_402	m38a[41D5]
C4106	CAP_402	m38a[41D2]
C4107	CAP_402	m38a[41D2]
C4110	CAP_402	m38a[41D4]
C4111	CAP_402	m38a[41D4]
C4112	CAP_402	m38a[41C4]
C4113	CAP_402	m38a[41C4]
C4115	CAP_402	m38a[41B5]
C4116	CAP_402	m38a[41B5]
C4117	CAP_402	m38a[41B2]
C4118	CAP_402	m38a[41B2]
C4126	CAP_402	m38a[41A8]
C4127	CAP_402	m38a[41A8]
C4128	CAP_402	m38a[41A8]
C4129	CAP_402	m38a[41A8]
C4130	CAP_402	m38a[41A7]
C4131	CAP_402	m38a[41A7]
C4132	CAP_402	m38a[41A7]
C4133	CAP_402	m38a[41A6]
C4134	CAP_402	m38a[41A6]
C4135	CAP_402	m38a[41A5]
C4136	CAP_402	m38a[41A5]
C4137	CAP_402	m38a[41A5]
C4138	CAP_402	m38a[41A4]
C4139	CAP_402	m38a[41A4]
C4140	CAP_402	m38a[41B3]
C4150	CAP_402	m38a[41D5]
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]
C4609	CAP_603-1	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[59B8]
C5801	CAP_402	m38a[59B8]
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[60B6]
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[68B3]
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[68A4]
C6825	CAP_402	m38a[68A3]
C6826	CAP_603	m38a[68A2]
C6830	CAP_402	m38a[68D4]
C6833	CAP_402	m38a[68B3]
C6835	CAP_402	m38a[68D6]
C6836	CAP_402	m38a[68D3]
C7200	CAP_P_6.3X8-SM	m38a[72D5]
C7201	CAP_1210	m38a[72D5]
C7202	CAP_805	m38a[72D4]
C7203	CAP_1210	m38a[72D3]
C7204	CAP_805	m38a[72D6]
C7205	CAP_805	m38a[72C6]
C7206	CAP_805	m38a[72C6]
C7207	CAP_805	m38a[72C6]
C7208	CAP_603-1	m38a[72C4]
C7209	CAP_805	m38a[72B4]
C7210	CAP_402	m38a[72B3]
C7211	CAP_402	m38a[72B2]
C7212	CAP_402	m38a[72B2]
C7213	CAP_402	m38a[72B2]
C7214	CAP_603	m38a[72B5]
C7215	CAP_402	m38a[72C6]
C7216	CAP_402	m38a[72C6]
C7217	CAP_P_6.3X8-SM	m38a[72D6]
C7218	CAP_603	m38a[72D5]
C7219	CAP_603	m38a[72D4]
C7221	CAP_402	m38a[72B7]
C7223	CAP_1210	m38a[72D3]
C7317	CAP_402	m38a[73B4]
C7318	CAP_805-1	m38a[73B4]
C7326	CAP_402	m38a[73C7]
C7400	CAP_402	m38a[74B4]
C7401	CAP_402	m38a[74D5]
C7402	CAP_402	m38a[74A4]
C7403	CAP_P_6.3X5.5-SM	m38a[74B7]
C7404	CAP_P_6.3X5.5-SM	m38a[74B6]
C7405	CAP_P_SMA-LF	m38a[74C7]
C7406	CAP_P_SMA-LF	m38a[74C6]
C7407	CAP_402	m38a[74D8]
C7408	CAP_402	m38a[74D7]
C7415	CAP_402	m38a[74A8]
C7416	CAP_402	m38a[74A8]
C7417	CAP_402	m38a[74A8]
C7418	CAP_805	m38a[74A5]
C7419	CAP_603-1	m38a[74A4]
C7424	CAP_402	m38a[74C3]
C7435	CAP_P_6.3X8-SM	m38a[74A3]
C7500	CAP_402	m38a[75C4]
C7501	CAP_P_TH-MCZ	m38a[75C2]
C7502	CAP_402	m38a[75B4]
C7503	CAP_402	m38a[75C1]
C7504	CAP_402	m38a[75B1]
C7505	CAP_402	m38a[75C8]
C7506	CAP_402	m38a[75B7]
C7507	CAP_402	m38a[75B7]
C7508	CAP_1210	m38a[75C2]
C7509	CAP_1210	m38a[75D1]
C7510	CAP_402	m38a[75C8]
C7511	CAP_603	m38a[75B2]
C7512	CAP_603	m38a[75C2]
C7513	CAP_402	m38a[75B7]
C7514	CAP_402	m38a[75B8]
C7515	CAP_603	m38a[75C4]
C7516	CAP_402	m38a[75B4]
C7517	CAP_P_SM-3	m38a[75D2]
C7518	CAP_P_SM-3	m38a[75D2]
C7521	CAP_402	m38a[75A6]
C7526	CAP_603	m38a[75D6]
C7527	CAP_603	m38a[75C5]

C7528	CAP_402	m38a[75B5]
C7529	CAP_402	m38a[75B5]
C7530	CAP_402	m38a[75D6]
C7531	CAP_402	m38a[75B5]
C7532	CAP_402	m38a[75B6]
C7533	CAP_402	m38a[75B6]
C7534	CAP_402	m38a[75B5]
C7535	CAP_603	m38a[75D5]
C7550	CAP_603	m38a[75D1]
C7551	CAP_603	m38a[75D1]
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C7592	CAP_402	m38a[75B3]
C7596	CAP_402	m38a[75D6]
C7597	CAP_1210	m38a[75D1]
C7598	CAP_1210	m38a[75D1]
C7599	CAP_402	m38a[76D6]
C7612	CAP_402	m38a[76B2]
C7633	CAP_402	m38a[76C7]
C7700	CAP_603	m38a[77D2]
C7703	CAP_402	m38a[77C2]
C7704	CAP_402	m38a[77C2]
C7706	CAP_402	m38a[77D2]
C7709	CAP_805	m38a[77D1]
C7710	CAP_402	m38a[77D5]
C7711	CAP_402	m38a[77D5]
C7712	CAP_402	m38a[77D4]
C7750	CAP_402	m38a[77A4]
C7751	CAP_805	m38a[77B5]
C7752	CAP_805	m38a[77B5]
C7753	CAP_402	m38a[77B6]
C7754	CAP_402	m38a[77B6]
C7755	CAP_805	m38a[77B4]
C7756	CAP_805	m38a[77B3]
C7757	CAP_402	m38a[77A7]
C7797	CAP_402	m38a[77B4]
C7798	CAP_603	m38a[77B7]
C7799	CAP_402	m38a[77A3]
C7800	CAP_1210	m38a[78C3]
C7801	CAP_P_SM-LF	m38a[78C4]
C7802	CAP_603	m38a[78C6]
C7803	CAP_603	m38a[78B6]
C7804	CAP_402	m38a[78C6]
C7805	CAP_603	m38a[78C4]
C7806	CAP_805-1	m38a[78B2]
C7807	CAP_P_CASE-D2E-LF	m38a[78B3]
C7809	CAP_402	m38a[78B3]
C7810	CAP_402	m38a[78B4]
C7811	CAP_402	m38a[78B5]
C7813	CAP_1206	m38a[78B4]
C7814	CAP_402	m38a[78B5]
C7817	CAP_P_CASE-D2E-LF	m38a[78B2]
C7900	CAP_402	m38a[79D6]
C7901	CAP_603	m38a[79D5]
C7902	CAP_402	m38a[79C5]
C7903	CAP_603	m38a[79C7]
C7906	CAP_402	m38a[79C5]
C7907	CAP_402	m38a[79C3]
C7908	CAP_402	m38a[79C5]
C7909	CAP_1206	m38a[79C4]
C7910	CAP_P_SM-3	m38a[79D4]
C7911	CAP_1210	m38a[79D3]
C7912	CAP_P_CASE-D2E-LF	m38a[79C3]
C7913	CAP_1206	m38a[79C2]
C7980	CAP_402	m38a[79B3]
C7992	CAP_603	m38a[79D6]
C7998	CAP_P_CASE-D2E-LF	m38a[79C3]
C8000	CAP_1210	m38a[80D3]
C8001	CAP_P_CASE-D2E-LF	m38a[80C3]
C8002	CAP_603	m38a[80D6]
C8003	CAP_402	m38a[80C3]
C8004	CAP_1206	m38a[80C4]
C8005	CAP_402	m38a[80C4]
C8006	CAP_402	m38a[80D6]
C8009	CAP_603	m38a[80C6]
C8010	CAP_603	m38a[80C4]
C8011	CAP_402	m38a[80C5]
C8012	CAP_402	m38a[80C5]
C8014	CAP_P_TH-MCZ	m38a[80D4]
C8015	CAP_1210	m38a[80D3]
C8016	CAP_805-1	m38a[80C2]
C8099	CAP_P_CASE-D2E-LF	m38a[80C2]
C8100	CAP_402	m38a[81D6]
C8101	CAP_603	m38a[81C5]
C8102	CAP_402	m38a[81C5]
C8103	CAP_603	m38a[81C7]
C8106	CAP_402	m38a[81C5]
C8107	CAP_402	m38a[81C3]
C8108	CAP_402	m38a[81C5]
C8109	CAP_1206	m38a[81C4]
C8110	CAP_1210	m38a[81D4]
C8111	CAP_1210	m38a[81D3]
C8112	CAP_1210	m38a[81D3]
C8114	CAP_P_CASE-D2E-LF	m38a[81C3]
C8115	CAP_805-1	m38a[81C2]
C8190	CAP_P_CASE-D2E-LF	m38a[81C3]
C8192	CAP_603	m38a[81D6]
C8198	CAP_1210	m38a[81D3]
C8199	CAP_402	m38a[81A5]
C8398	CAP_603	m38a[83B4]
C8399	CAP_603	m38a[83C4]
C8400	CAP_805	m38a[84C7]
C8401	CAP_402	m38a[84C7]
C8402	CAP_402	m38a[84C7]
C8405	CAP_805	m38a[84B7]
C8406	CAP_402	m38a[84B7]
C8407	CAP_402	m38a[84B7]
C8410	CAP_805	m38a[84B6]
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C8412	CAP_402	m38a[84B7]
C8413	CAP_402	m38a[84B7]
C8420	CAP_402	m38a[84D5]
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C8422	CAP_402	m38a[84D5]
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C8424	CAP_402	m38a[84D5]
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C8430	CAP_402	m38a[84C5]
C8431	CAP_402	m38a[84C5]
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C8440	CAP_402	m38a[84B5]
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C8450	CAP_402	m38a[84B5]
C8451	CAP_402	m38a[84B5]
C8455	CAP_402	m38a[84D2]
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C8459	CAP_402	m38a[84D2]
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C8462	CAP_402	m38a[84D2]
C8463	CAP_402	m38a[84D2]
C8464	CAP_402	m38a[84C2]
C8465	CAP_402	m38a[84C2]
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C8486	CAP_402	m38a[84B2]
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C8501	CAP_603	m38a[85D6]
C8502	CAP_603	m38a[85D6]
C8506	CAP_402	m38a[85C8]
C8507	CAP_402	m38a[85C7]
C8508	CAP_402	m38a[85C7]
C8509	CAP_402	m38a[85C5]
C8521	CAP_402	m38a[85C4]
C8522	CAP_402	m38a[85C5]
C8530	CAP_1210	m38a[85D4]
C8531	CAP_1210	m38a[85D4]
C8532	CAP_1210	m38a[85D4]
C8540	CAP_805	m38a[85C2]
C8541	CAP_805	m38a[85C2]
C8542	CAP_P_CASE-D2E-LF	m38a[85C2]
C8543	CAP_P_CASE-D2E-LF	m38a[85C2]
C8590	CAP_402	m38a[85D3]
C8592	CAP_402	m38a[85C2]
C8595	CAP_402	m38a[85D1]
C8598	CAP_402	m38a[85D2]
C8599	CAP_1206	m38a[85C4]
C8600	CAP_805	m38a[86C7]
C8601	CAP_805	m38a[86C7]
C8604	CAP_402	m38a[86C7]
C8605	CAP_402	m38a[86C6]
C8606	CAP_402	m38a[86C6]
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C8609	CAP_402	m38a[86C5]
C8610	CAP_402	m38a[86C5]
C8611	CAP_402	m38a[86C7]
C8612	CAP_402	m38a[86C6]
C8613	CAP_402	m38a[86C6]
C8614	CAP_402	m38a[86C6]
C8615	CAP_402	m38a[86C5]
C8616	CAP_402	m38a[86C5]
C8630	CAP_805	m38a[86C6]
C8631	CAP_402	m38a[86C6]
C8632	CAP_402	m38a[86C5]
C8633	CAP_402	m38a[86C5]
C8634	CAP_402	m38a[86C5]
C8650	CAP_805	m38a[86B7]
C8651	CAP_805	m38a[86B7]
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C8653	CAP_805	m38a[86B6]
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C8670	CAP_402	m38a[86B5]
C8671	CAP_402	m38a[86B5]
C8672	CAP_402	m38a[86B5]
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C8674	CAP_402	m38a[86B6]
C8675	CAP_402	m38a[86B6]
C8676	CAP_402	m38a[86B5]
C8677	CAP_402	m38a[86B5]
C8678	CAP_402	m38a[86B5]
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C8680	CAP_402	m38a[86A6]
C8681	CAP_402	m38a[86A6]
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C8683	CAP_402	m38a[86A5]
C8690	CAP_805	m38a[86D5]
C8691	CAP_402	m38a[86D5]
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C8711	CAP_402	m38a[87B7]
C8713	CAP_402	m38a[87B7]
C8715	CAP_402	m38a[87A7]
C8716	CAP_402	m38a[87A6]
C8721	CAP_402	m38a[87B4]
C8723	CAP_402	m38a[87B4]
C8725	CAP_402	m38a[87A4]
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C8915	CAP_402	m38a[89D6]
C8920	CAP_805	m38a[89C8]
C8921	CAP_402	m38a[89C8]
C8922	CAP_402	m38a[89C7]
C8923	CAP_402	m38a[89C7]
C8924	CAP_402	m38a[89C7]
C8925	CAP_402	m38a[89C7]
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C8933	CAP_402	m38a[89C6]
C8950	CAP_805	m38a[89D4]
C8951	CAP_402	m38a[89D4]
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C8965	CAP_402	m38a[89D3]
C8970	CAP_805	m38a[89C5]
C8971	CAP_402	m38a[89C4]
C8972	CAP_402	m38a[89C4]
C8973	CAP_402	m38a[89C4]
C8974	CAP_402	m38a[89C4]
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C8981	CAP_402	m38a[89C3]
C8983	CAP_402	m38a[89C3]
C9000	CAP_805	m38a[90D7]
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C9002	CAP_402	m38a[90D7]
C9003	CAP_402	m38a[90D7]
C9004	CAP_402	m38a[90D6]
C9010	CAP_402	m38a[90D7]
C9015	CAP_402	m38a[90D6]
C9020	CAP_805	m38a[90C8]
C9021	CAP_402	m38a[90C8]
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C9024	CAP_402	m38a[90C7]
C9025	CAP_402	m38a[90C7]
C9026	CAP_402	m38a[90C6]
C9031	CAP_402	m38a[90C7]
C9033	CAP_402	m38a[90C6]
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C9060	CAP_402	m38a[90D3]
C9065	CAP_402	m38a[90D3]
C9070	CAP_805	m38a[90C5]
C9071	CAP_402	m38a[90C4]
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C9073	CAP_402	m38a[90C4]
C9074	CAP_402	m38a[90C4]
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C9076	CAP_402	m38a[90C3]
C9081	CAP_402	m38a[90C3]
C9083	CAP_402	m38a[90C3]
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C9102	CAP_402	m38a[91C5]
C9103	CAP_402	m38a[91C5]
C9110	CAP_805	m38a[91C5]
C9111	CAP_402	m38a[91C5]
C9112	CAP_402	m38a[91C5]
C9115	CAP_805	m38a[91B5]
C9116	CAP_402	m38a[91B5]
C9117	CAP_402	m38a[91B5]
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C9125	CAP_805	m38a[91B5]
C9126	CAP_402	m38a[91B5]
C9127	CAP_402	m38a[91B5]
C9130	CAP_805	m38a[91A6]
C9131	CAP_402	m38a[91A6]
C9132	CAP_402	m38a[91A5]
C9135	CAP_805	m38a[91A6]
C9136	CAP_402	m38a[91A6]
C9137	CAP_402	m38a[91A5]
C9140	CAP_805	m38a[91A6]
C9141	CAP_402	m38a[91A6]
C9142	CAP_402	m38a[91A5]
C9191	CAP_402	m38a[91D2]
C9300	CAP_805	m38a[93C6]
C9301	CAP_402	m38a[93C6]
C9302	CAP_402	m38a[93C5]
C9305	CAP_805	m38a[93C6]
C9306	CAP_402	m38a[93C6]
C9307	CAP_402	m38a[93C5]
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C9326	CAP_402	m38a[93B8]
C9327	CAP_402	m38a[93B7]
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C9341	CAP_402	m38a[93A6]
C9342	CAP_402	m38a[93A5]
C9345	CAP_805	m38a[93A6]
C9346	CAP_402	m38a[93A5]
C9347	CAP_402	m38a[93A5]
C9400	CAP_603-1	m38a[94C7]
C9401	CAP_402	m38a[94C6]
C9410	CAP_402	m38a[94C6]
C9420	CAP_1210	m38a[94C5]
C9450	CAP_805	m38a[94C2]
C9470	CAP_402	m38a[94B2]
C9700	CAP_402	m38a[97C8]
C9710	CAP_603	m38a[97C3]
C9711	CAP_402	m38a[97D3]
C9713	CAP_402	m38a[97C2]
C9714	CAP_402	m38a[97C2]
C9740	CAP_402	m38a[97A7]
C9741	CAP_402	m38a[97A6]
C9742	CAP_402	m38a[97A6]
C9750	CAP_402	m38a[97B4]
C9751	CAP_402	m38a[97A4]
D2500	DIODE_SCHOT_SOT23	m38a[25C8]
D2501	DIODE_SCHOT_SOT23	m38a[25D8]
D2600	DIODE_SCHOT_SOT23	m38a[26D8]
D2601	DIODE_SCHOT_SOT23	m38a[26C8]
D4600	DIODE_SMC	m38a[46D5]
D4690	ZENER_SOT23	m38a[46A6]
D4700	DIODE_SCHOT_3P_A_SC-75	m38a[47C4]
D4701	DIODE_SCHOT_3P_A_SC-75	m38a[47B4]
D4702	DIODE_SCHOT_3P_A_SC-75	m38a[47A4]
D6500	DIODE_SOT23	m38a[65C4]
D6501	DIODE_SOT23	m38a[65B4]
D6502	DIODE_SCHOT_SMB	m38a[65C4]
D6503	DIODE_SCHOT_SMB	m38a[65B4]
D6600	DIODE_SOT23	m38a[66C4]
D6601	DIODE_SCHOT_SMB	m38a[66C3]
D7500	DIODE_SCHOT_SMB	m38a[75C3]
D7501	DIODE_SCHOT_SMB	m38a[75B2]
D7599	DIODE_SOT23	m38a[76D6]
D8520	DIODE_SCHOT_SMB	m38a[85C3]
D9700	ZENER_CASE425	m38a[97C1]
DP4610	DIODE_DUAL_6P_SOT-363	m38a[46D4 46D3]
DP4611	DIODE_DUAL_6P_SOT-363	m38a[46C4 46C3]
DP4620	DIODE_DUAL_6P_SOT-363	m38a[46B4 46B3]
DP4621	DIODE_DUAL_6P_SOT-363	m38a[46A4 46A3]
DZ4700	DIODE_SCHOT_POWERDI-123	m38a[47C8]
DZ6800	DIODE_SCHOT_POWERDI-123	m38a[68A4]
DZ7300	SUPPR_TRANSIENT1_402	m38a[73C6]
DZ7301	SUPPR_TRANSIENT1_402	m38a[73C5]
DZ7302	SUPPR_TRANSIENT1_402	m38a[73C6]
DZ7311	SUPPR_TRANSIENT1_402	m38a[73A7]
DZ7313	SUPPR_TRANSIENT1_402	m38a[73A6]
DZ7314	SUPPR_TRANSIENT1_402	m38a[73A6]
DZ7315	SUPPR_TRANSIENT1_402	m38a[73A6]
DZ7323	SUPPR_TRANSIENT1_402	m38a[73A5]
DZ7324	SUPPR_TRANSIENT1_402	m38a[73C5]
DZ7325	SUPPR_TRANSIENT1_402	m38a[73C3]
DZ7326	SUPPR_TRANSIENT1_402	m38a[73C3]
DZ7380	SUPPR_TRANSIENT1_402	m38a[73A7]
F4602	FUSE_MINISMD-LF	m38a[46D3]
F4701	FUSE_MINISMD-LF	m38a[47D3]
F9710	FUSE_SM-LF	m38a[97D5]
FL4610	FILTER_4P_2012	m38a[46C3]
FL4620	FILTER_4P_2012	m38a[46B3]
FL9740	FILTER_LC_SM-220MHZ-LF	m38a[97B7]
FL9741	FILTER_LC_SM-220MHZ-LF	m38a[97A7]
FL9742	FILTER_LC_SM-220MHZ-LF	m38a[97A7]
FLE011	FILTER_4P_2012	m38a[46C3]
FLE021	FILTER_4P_2012	m38a[46B3]
GV3801	HOLE_VIA	m38a[38A8]
GV3802	HOLE_VIA	m38a[38A7]
GV3803	HOLE_VIA	m38a[38A8]
GV3804	HOLE_VIA	m38a[38A7]
GV3805	HOLE_VIA	m38a[38A8]
GV3806	HOLE_VIA	m38a[38A7]
GV3807	HOLE_VIA	m38a[38A8]
GV3808	HOLE_VIA	m38a[38A7]
J3	CON_2RTSM_125_SM-2MT-BLK-LF	m38a[61B6]
J600	CON_M12RT_D_THA_M-RT-TH	m38a[6D7]
J0700	CPU_YONAH_SKT_BGA	m38a[7C3 7D7]
J0700	CPU_YONAH_SKT_BGA	m38a[8D4 8D8]
J1000	CON_2RTSM_125_SM-2MT-BLK-LF	m38a[10B7]
J1101	CON_F28RT_S2MT_SM_F-RT-SM	m38a[11C2]
J2600	BATTERY_2P_SM	m38a[26C8]
J2800	CON_F200RT_DDR2DIMM_5MT_SM_F-RT-SM1	m38a[28D5]
J2900	CON_F200RT_DDR2DIMM_5MT_SM_F-RT-SM1	m38a[29D5]
J2901	CON_F4ST_S2MT_SM_F-S-T-SM	m38a[59C7]
J2903	CON_M2ST_S2MT_SM_M-S-T-SM	m38a[59C8]
J4700	CON_F10ST_D_SMA_F-ST-SM	m38a[47B1]
J5300	CON_F52RT_D2MT_SM_F-RT-SM	m38a[53C5]
J6000	CON_F30STSM_5047_SM1	m38a[60C3]
J6500	CON_M4RT_S2MT_SM_M-R-T-SM	m38a[65D3]
J6501	CON_M5RT_S2MT_SMA_M-RT-SM	m38a[65B2]
J6600	CON_F4ST_S2MT_SM_F-S-T-SM	m38a[66C2]
J6601	CON_M4RT_S2MT_SM_M-R-T-SM	m38a[66B5]
J6602	CON_M4RT_S2MT_SM_M-R-T-SM	m38a[66B3]
J7300	CON_F9ANG_4MT_OPTAUD-JCK_TH1_F-5.5-DEG-TH	m38a[73D8]

J7301	CON_M7RT_S2MT_SM_M-RT-SM	m38a[73D1]	
J7303	CON_F9ANG_S4MT_TH1_F-ANG-TH	m38a[73B3]	
J9401	CON_M4ST_S_SM_M-ST-SM	m38a[94C2]	
J9402	CON_F30ST_D_SM_F-ST-SM	m38a[94B6]	
J9710	CON_DVI_F32ST_Q2MT_SM_F-ST-SM4	m38a[97D5]	
JC900	CON_M7ST_SATA_SM_M-ST-SM	m38a[38B8]	
JC901	CON_F50ST_D2MT_SM_F-ST-SM	m38a[38D2]	
JD600	CON_RJ45_10ANG_S3MT_TH1_F-ANG-TH	m38a[43C6]	
JE000	CON_F6ST_S4MT_TH1_F-ST-TH	m38a[46C2]	
JE001	CON_F6ST_S4MT_TH1_F-ST-TH	m38a[46B2]	
JE310	CON_F4ST_USB_S3MT_TH_F-ST-TH	m38a[47D4]	
JE320	CON_F4ST_USB_S3MT_TH_F-ST-TH	m38a[47B4]	
JE330	CON_F4ST_USB_S3MT_TH_F-ST-TH	m38a[47A4]	
JE350	CON_M14RT_S2MT_SM_M-RT-SM	m38a[47C1]	
L1934	IND_0603	m38a[19C7]	
L1936	IND_0603	m38a[19C7]	
L1970	IND_1210	m38a[19A5]	
L1975	IND_0805	m38a[19A5]	
L2500	IND_SM-3	m38a[25B8]	
L2507	IND_1206	m38a[25A7]	
L3301	IND_0402-LF	m38a[33D7]	
L3302	IND_0402-LF	m38a[33D3]	
L4200	IND_0805	m38a[42D7]	
L4201	IND_0805	m38a[42B7]	
L4300	IND_SM	m38a[43D7]	
L4409	IND_0402	m38a[44D6]	
L4610	IND_1206-LF	m38a[46D2]	
L4620	IND_1206-LF	m38a[46B2]	
L4690	IND_SM-1	m38a[46A6]	
L4710	IND_SM	m38a[47D5]	
L4712	FILTER_4P_2012	m38a[47C5]	
L4720	IND_SM	m38a[47C5]	
L4722	FILTER_4P_2012	m38a[47B5]	
L4730	IND_SM	m38a[47B5]	
L4732	FILTER_4P_2012	m38a[47A5]	
L4740	IND_SM	m38a[47D2]	
L4742	FILTER_4P_2012	m38a[47C2]	
L4752	FILTER_4P_2012	m38a[47B2]	
L6800	IND_0402-LF	m38a[68A5]	
L6801	IND_0402-LF	m38a[68D6]	
L7200	IND_SM-1	m38a[72D6]	
L7201	IND_0603-LF	m38a[72C2]	
L7202	IND_0603-LF	m38a[72C2]	
L7203	IND_0603-LF	m38a[72C3]	
L7204	IND_0603-LF	m38a[72C3]	
L7205	IND_0603	m38a[72D6]	
L7206	IND_0603	m38a[72C6]	
L7207	IND_0603	m38a[72C6]	
L7208	IND_0603	m38a[72C6]	
L7300	IND_0603-LF	m38a[73D6]	
L7301	IND_0603-LF	m38a[73D6]	
L7302	IND_0603-LF	m38a[73D6]	
L7303	IND_0603-LF	m38a[73D6]	
L7304	IND_0603-LF	m38a[73D5]	
L7305	IND_0603-LF	m38a[73D5]	
L7306	IND_0603-LF	m38a[73D5]	
L7307	IND_0603-LF	m38a[73D5]	
L7309	IND_0603-LF	m38a[73C4]	
L7310	IND_0603-LF	m38a[73C4]	
L7312	IND_0603-LF	m38a[73C3]	
L7313	IND_0603-LF	m38a[73C3]	
L7315	IND_0603-LF	m38a[73B7]	
L7316	IND_0603-LF	m38a[73B7]	
L7317	IND_0603-LF	m38a[73A7]	
L7318	IND_0603-LF	m38a[73B7]	
L7319	IND_0603-LF	m38a[73B7]	
L7323	IND_0603-LF	m38a[73B5]	
L7324	IND_0603-LF	m38a[73B5]	
L7325	IND_0603-LF	m38a[73A5]	
L7326	IND_0603-LF	m38a[73B5]	
L7327	IND_0603-LF	m38a[73B5]	
L7381	IND_0603-LF	m38a[73A5]	
L7500	IND_SM	m38a[75D1]	
L7501	IND_SM	m38a[75B2]	
L7502	IND_TH-VERT-LF	m38a[76D8]	
L7700	IND_SM1-LF	m38a[77D2]	
L7750	IND_SM-LF	m38a[77B4]	
L7800	IND_3P_SM	m38a[78B3]	
L7880	IND_0603-LF	m38a[73A7]	
L7900	IND_3P_SM	m38a[79C3]	
L8000	IND_3P_SM	m38a[80C3]	
L8100	IND_IHLP	m38a[81C3]	
L8400	IND_0402	m38a[84B7]	
L8520	IND_IHLP	m38a[85C3]	
L8715	IND_0402	m38a[87A7]	
L8725	IND_0402	m38a[87A4]	
L8910	IND_0402	m38a[89D7]	
L8915	IND_0402	m38a[89D7]	
L8960	IND_0402	m38a[89D4]	
L8965	IND_0402	m38a[89D4]	
L9010	IND_0402	m38a[90D7]	
L9015	IND_0402	m38a[90D7]	
L9060	IND_0402	m38a[90D4]	
L9065	IND_0402	m38a[90D4]	
L9120	IND_0402	m38a[91B6]	
L9125	IND_0402	m38a[91B6]	
L9130	IND_0402	m38a[91B7]	
L9135	IND_0402	m38a[91A7]	
L9140	IND_0402	m38a[91A7]	
L9300	IND_0402	m38a[93C7]	
L9305	IND_0402	m38a[93C7]	
L9310	IND_0402	m38a[93C7]	
L9315	IND_0402	m38a[93C7]	
L9320	IND_0402	m38a[93B7]	
L9325	IND_0402	m38a[93B7]	
L9330	IND_0402	m38a[93B7]	
L9345	IND_0402	m38a[93B7]	
L9400	IND_SM	m38a[94C6]	
L9700	FILTER_4P_2012H	m38a[97D7]	
L9701	FILTER_4P_2012H	m38a[97D7]	
L9702	FILTER_4P_2012H	m38a[97C7]	
L9703	FILTER_4P_SM-LF	m38a[97C7]	
L9710	IND_SM-1	m38a[97D5]	
LED601	LED_2.0X1.25MM-SM	m38a[6A8]	
LED602	LED_2.0X1.25MM-SM	m38a[6A7]	
LED603	LED_2.0X1.25MM-SM	m38a[6A6]	
LED3800	LED_2.0X1.25MM-SM	m38a[38B3]	
LED5950	LED_3X2MM-SM	m38a[60A6]	
LED6000	LED_NS3W315_ST-SM	m38a[60A6]	
LED7900	LED_2.0X1.25MM-SM	m38a[79A4]	
LED8000	LED_2.0X1.25MM-SM	m38a[80A4]	
LED8100	LED_2.0X1.25MM-SM	m38a[81A4]	
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PP6B7	PROBEPOINT_SM	m38a[5A6]	
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PP700	TP_SM-TP50-TOP	m38a[5D3]	
PP701	TP_SM-TP50-TOP	m38a[5D3]	
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PP2802	TP_SM-TP50-TOP	m38a[5C3]	
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PP8736	PROBEPOINT_SM	m38a[5C5]	
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PP9036	PROBEPOINT_SM	m38a[5A4]	
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Q5901	TRA_2N7002DW_SOT-363	m38a[59C7 59C7]	
Q5910	TRA_SINGLE_MOSFET_PC-HN_SOT-23	m38a[59A4]	
Q5911	TRA_2N7002_SOT23-LF	m38a[59A4]	
Q5950	TRA_2N7002_SOT23-LF	m38a[60A7]	
Q5951	TRA_2N7002_SOT23-LF	m38a[60B7]	
Q5952	TRA_2N3906_SOT23-LF	m38a[60B6]	
Q6500	TRA_NTHS5443T1_1206A-03-LF	m38a[65D4]	
Q6502	TRA_2N7002_SOT23-LF	m38a[65D6]	
Q6503	TRA_NTHS5443T1_1206A-03-LF	m38a[65B4]	
Q6505	TRA_2N7002_SOT23-LF	m38a[65B6]	
Q6600	TRA_NTHS5443T1_1206A-03-LF	m38a[66D4]	
Q6602	TRA_2N7002_SOT23-LF	m38a[66C5]	
Q7200	TRA_2N7002DW_SOT-363	m38a[72B6 72B7]	
Q7400	TRA_2N7002DW_SOT-363	m38a[74B3 74B3]	
Q7401	TRA_2N7002_SOT23-LF	m38a[74D5]	
Q7402	TRA_2N7002DW_SOT-363	m38a[74B2 74B2]	
Q7500	TRA_HAT2168H_LFPAK	m38a[75D3]	
Q7501	TRA_HAT2165H_LFPAK	m38a[75D3]	
Q7502	TRA_HAT2168H_LFPAK	m38a[75C3]	
Q7503	TRA_HAT2165H_LFPAK	m38a[75B3]	
Q7504	TRA_HAT2165H_LFPAK	m38a[75D3]	
Q7505	TRA_HAT2165H_LFPAK	m38a[75B3]	
Q7570	TRA_HAT2168H_LFPAK	m38a[75D2]	
Q7572	TRA_HAT2168H_LFPAK	m38a[75C3]	
Q7701	TRA_SI3446DV_TSOP-LF	m38a[77A3]	
Q7703	TRA_2N7002DW_SOT-363	m38a[77C7 77D7]	
Q7799	TRA_2N7002_SOT23-LF	m38a[77A7]	
Q7800	TRA_NTD60N02R_CASE369-LF	m38a[78C4]	
Q7801	TRA_NTD60N02R_CASE369-LF	m38a[78B4]	
Q7802	TRA_2N7002_SOT23-LF	m38a[78B7]	
Q7900	TRA_NTD60N02R_CASE369-LF	m38a[79D4]	
Q7901	TRA_NTD60N02R_CASE369-LF	m38a[79C4]	
Q7902	TRA_2N7002_SOT23-LF	m38a[79C7]	
Q8000	TRA_NTD60N02R_CASE369-LF	m38a[80D4]	
Q8001	TRA_NTD60N02R_CASE369-LF	m38a[80C4]	
Q8003	TRA_2N7002_SOT23-LF	m38a[80C7]	
Q8102	TRA_NTD60N02R_CASE369-LF	m38a[81D4]	
Q8103	TRA_NTD60N02R_CASE369-LF	m38a[81C4]	
Q8104	TRA_2N7002_SOT23-LF	m38a[81C7]	
Q8300	TRA_IRF7413_SO-8	m38a[83C4]	
Q8301	TRA_IRF7413_SO-8	m38a[83B4]	
Q8302	TRA_2N7002DW_SOT-363	m38a[83B5]	
Q8303	TRA_2N7002DW_SOT-363	m38a[83C5]	
Q8520	TRA_HAT2168H_LFPAK	m38a[85D4]	
Q8521	TRA_HAT2165H_LFPAK	m38a[85C4]	
Q8522	TRA_HAT2165H_LFPAK	m38a[85C5]	
Q9400	TRA_SI3443DV_TSOP-LF	m38a[94C7]	
Q9401	TRA_2N7002_SOT23-LF	m38a[94C7]	
Q9711	TRA_2N7002DW_SOT-363	m38a[97D2 97C2]	
R75A0	RES_402	m38a[75C7]	
R85A0	RES_402	m38a[85D1]	
R600	RES_402	m38a[6A7]	
R601	RES_402	m38a[6D8]	
R602	RES_402	m38a[6A8]	
R603	RES_402	m38a[6B1]	
R605	RES_603	m38a[6A6]	
R611	RES_402	m38a[6B7]	
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R0719	RES_402	m38a[7B1]	
R0720	RES_402	m38a[7B7]	
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R0722	RES_402	m38a[7A7]	
R0730	RES_402	m38a[7A4]	
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R0803	RES_402	m38a[8A7]	
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R1002	RES_402	m38a[10C6]	
R1005	RES_402	m38a[10D3]	
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R1100	RES_402	m38a[11B5]	
R1101	RES_402	m38a[11C5]	
R1102	RES_402	m38a[11B4]	
R1103	RES_402	m38a[11C5]	

R1104	RES_402	m38a[11B5]
R1106	RES_402	m38a[11A3]
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R1211	RES_402	m38a[12C3]
R1220	RES_402	m38a[12B7]
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R1236	RES_402	m38a[12A7]
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R1410	RES_402	m38a[14C3]
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R1430	RES_402	m38a[14B6]
R1440	RES_402	m38a[14D6]
R1441	RES_402	m38a[14D6]
R1975	RES_402	m38a[19A4]
R1980	RES_402	m38a[19B7]
R1981	RES_402	m38a[19B7]
R1982	RES_402	m38a[19B8]
R1983	RES_402	m38a[19B8]
R2058	RES_402	m38a[20B4]
R2059	RES_402	m38a[20B4]
R2060	RES_402	m38a[20A4]
R2075	RES_402	m38a[20C7]
R2077	RES_402	m38a[20B7]
R2079	RES_402	m38a[20B7]
R2085	RES_402	m38a[20C4]
R2100	RES_402	m38a[21C3]
R2101	RES_402	m38a[21C4]
R2105	RES_402	m38a[21D6]
R2107	RES_402	m38a[21C2]
R2108	RES_402	m38a[21C2]
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R2194	RES_402	m38a[21D4]
R2195	RES_402	m38a[21C6]
R2196	RES_402	m38a[21C6]
R2197	RES_402	m38a[21C6]
R2198	RES_402	m38a[21C6]
R2199	RES_402	m38a[21C3]
R2200	RES_402	m38a[22D7]
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R2204	RES_402	m38a[22C2]
R2205	RES_402	m38a[22C6]
R2206	RES_402	m38a[22C5]
R2207	RES_402	m38a[22C5]
R2211	RES_402	m38a[22B3]
R2222	RES_402	m38a[22D6]
R2223	RES_402	m38a[22D6]
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R2250	RES_402	m38a[22D7]
R2251	RES_402	m38a[22D6]
R2255	RES_402	m38a[22D7]
R2298	RES_402	m38a[22B5]
R2299	RES_402	m38a[22B5]
R2302	RES_402	m38a[23D3]
R2303	RES_402	m38a[23D3]
R2305	RES_402	m38a[23D3]
R2306	RES_402	m38a[23B7]
R2307	RES_402	m38a[23A7]
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R2313	RES_402	m38a[23A7]
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R2326	RES_402	m38a[23D6]
R2327	RES_402	m38a[23D6]
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R2388	RES_402	m38a[23A3]
R2389	RES_402	m38a[38D5]
R2390	RES_402	m38a[23B3]
R2395	RES_402	m38a[23D7]
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R2397	RES_402	m38a[23D6]
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R2718	RES_402	m38a[27B7]
R2719	RES_402	m38a[27B7]
R2750	RES_402	m38a[27C7]
R2751	RES_402	m38a[27C7]
R2800	RES_402	m38a[28C7]
R2801	RES_402	m38a[28C7]
R2900	RES_402	m38a[29A3]
R3001	RES_402	m38a[30D4]
R3009	RES_402	m38a[30D4]
R3011	RES_402	m38a[30C4]
R3025	RES_402	m38a[30C4]
R3035	RES_402	m38a[30B4]
R3100	RES_402	m38a[31C5]
R3101	RES_402	m38a[31C5]
R3300	RES_402	m38a[33B6]
R3301	RES_402	m38a[33B7]
R3302	RES_402	m38a[33D4]
R3303	RES_402	m38a[33C4]
R3304	RES_402	m38a[33C7]
R3400	RES_402	m38a[34C5]
R3401	RES_402	m38a[34B5]
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R3497	RES_402	m38a[34D4]
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R4106	RES_402	m38a[41C2]
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R4119	RES_402	m38a[41B2]
R4120	RES_402	m38a[41B2]
R4122	RES_402	m38a[41A3]
R4123	RES_402	m38a[41A2]
R4130	RES_402	m38a[41C4]
R4131	RES_402	m38a[41C4]
R4150	RES_402	m38a[41C8]
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R4413	RES_402	m38a[44C3]
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R4450	RES_402	m38a[44B3]
R4451	RES_402	m38a[44B3]
R4452	RES_402	m38a[44B3]
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R4454	RES_402	m38a[44B3]
R4455	RES_402	m38a[44B3]
R4650	RES_402	m38a[46C8]
R4651	RES_402	m38a[46C7]
R4652	RES_402	m38a[46B8]
R4653	RES_402	m38a[46B7]
R4654	RES_402	m38a[46B7]
R4656	RES_2512-1	m38a[46D6]
R4657	RES_805	m38a[46D6]
R4660	RES_402	m38a[46C7]
R4661	RES_402	m38a[46C7]
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R4663	RES_402	m38a[46B7]
R4664	RES_402	m38a[46B7]
R4690	RES_402	m38a[46A7]
R4712	RES_402	m38a[47C5]
R4713	RES_402	m38a[47C5]
R4722	RES_402	m38a[47B5]
R4723	RES_402	m38a[47B5]
R4732	RES_402	m38a[47A5]
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R4742	RES_402	m38a[47C2]
R4743	RES_402	m38a[47C2]
R4746	RES_805	m38a[47D2]
R4754	RES_402	m38a[47C2]
R4755	RES_402	m38a[47B2]
R5302	RES_402	m38a[53B4]
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R5304	RES_402	m38a[53C6]
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R5802	RES_402	m38a[58C2]
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R5905	RES_402	m38a[59D2]
R5906	RES_402	m38a[59D2]
R5907	RES_402	m38a[59B7]
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R5917	RES_402	m38a[59C2]
R5919	RES_402	m38a[59B4]
R5920	RES_402	m38a[59B5]
R5921	RES_402	m38a[59B5]
R5922	RES_402	m38a[59B5]
R5923	RES_402	m38a[59B5]
R5924	RES_402	m38a[59B5]
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R5935	RES_402	m38a[59A6]
R5940	RES_402	m38a[59A3]
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R5942	RES_402	m38a[59A4]
R5950	RES_402	m38a[60A7]
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R6301	RES_402	m38a[63D4]
R6302	RES_402	m38a[63D4]
R6303	RES_402	m38a[63C2]
R6306	RES_402	m38a[63C2]
R6307	RES_402	m38a[63C5]
R6309	RES_402	m38a[63C5]
R6399	RES_402	m38a[63D2]
R6500	RES_402	m38a[65C7]
R6501	RES_402	m38a[65A7]
R6502	RES_1206	m38a[65D6]
R6503	RES_805	m38a[65D5]
R6504	RES_805	m38a[65C5]
R6505	RES_805	m38a[65D5]
R6506	RES_402	m38a[65D6]
R6507	RES_805	m38a[65B5]
R6508	RES_805	m38a[65B5]
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R6510	RES_1206	m38a[65B6]
R6511	RES_402	m38a[65B6]
R6512	RES_805	m38a[65C5]
R6513	RES_805	m38a[65B5]
R6514	RES_805	m38a[65B4]
R6515	RES_805	m38a[65C4]
R6598	RES_402	m38a[65A7]
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R6601	RES_805	m38a[66D5]
R6602	RES_805	m38a[66C4]
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R6605	RES_402	m38a[66D6]
R6606	RES_805	m38a[66C5]
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R6703	RES_402	m38a[67C4]
R6704	RES_805	m38a[67C2]
R6705	RES_805	m38a[67C3]
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R7218	RES_402	m38a[72A5]
R7219	RES_402	m38a[72B6]
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R7306	RES_402	m38a[73D4]
R7308	RES_402	m38a[73B8]
R7400	RES_402	m38a[74B4]
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R7408	RES_402	m38a[74A4]
R7409	RES_402	m38a[74B4]
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R7423	RES_402	m38a[74B6]
R7424	RES_402	m38a[74B6]
R7425	RES_603	m38a[74A5]
R7426	RES_402	m38a[74A4]
R7427	RES_402	m38a[74A4]
R7430	RES_402	m38a[74C1]
R7431	RES_402	m38a[74C2]
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R7437	RES_402	m38a[74C5]
R7440	RES_805	m38a[74D2]
R7442	RES_805	m38a[74D3]
R7443	RES_805	m38a[74D3]
R7500	RES_402	m38a[75C2]
R7501	RES_603	m38a[75C2]
R7502	RES_1206	m38a[75B2]
R7503	RES_1206	m38a[75D2]
R7504	RES_402	m38a[75C1]
R7505	RES_402	m38a[75B2]
R7506	RES_603	m38a[75B2]
R7507	RES_402	m38a[75B1]
R7508	RES_402	m38a[75B8]
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R7516	RES_402	m38a[75B4]
R7517	RES_402	m38a[75B5]
R7518	RES_402	m38a[75B5]
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R7520	RES_402	m38a[75D7]
R7521	RES_402	m38a[75D7]
R7522	RES_402	m38a[75A5]
R7523	RES_402	m38a[75A5]
R7526	THERMISTER_402	m38a[75C8]
R7527	RES_402	m38a[75C8]
R7528	RES_402	m38a[75A5]
R7529	RES_402	m38a[75A5]
R7530	RES_402	m38a[75B4]
R7531	THERMISTER_0603-LF	m38a[75B4]
R7540	RES_603	m38a[75C1]
R7541	RES_603	m38a[75B1]
R7590	RES_402	m38a[75C7]
R7591	RES_402	m38a[75C7]
R7592	RES_402	m38a[75C7]
R7593	RES_402	m38a[75C7]
R7594	RES_402	m38a[75C7]
R7595	RES_402	m38a[75C7]
R7596	RES_402	m38a[75D7]
R7597	RES_402	m38a[76D6]
R7598	RES_402	m38a[76D7]
R7599	RES_2512-1	m38a[76D7]
R7602	RES_402	m38a[76D3]

R7612	RES_402	m38a[76B2]
R7620	RES_402	m38a[76D2]
R7623	RES_402	m38a[76D1]
R7630	RES_402	m38a[76C8]
R7631	RES_402	m38a[76C8]
R7632	RES_402	m38a[76C7]
R7640	RES_402	m38a[76A7]
R7691	RES_402	m38a[76C7]
R7700	RES_402	m38a[77D3]
R7701	RES_402	m38a[77D4]
R7704	RES_402	m38a[77C4]
R7705	RES_402	m38a[77C3]
R7706	RES_402	m38a[77D2]
R7707	RES_402	m38a[77D1]
R7708	RES_402	m38a[77D1]
R7710	RES_402	m38a[77D3]
R7750	RES_402	m38a[77B4]
R7751	RES_402	m38a[77A4]
R7752	RES_402	m38a[77B4]
R7753	RES_402	m38a[77A6]
R7754	RES_402	m38a[77B7]
R7757	RES_402	m38a[77B7]
R7793	RES_402	m38a[77D7]
R7794	RES_402	m38a[77C7]
R7798	RES_402	m38a[77C7]
R7799	RES_402	m38a[77D7]
R7800	RES_402	m38a[78C7]
R7801	RES_402	m38a[78B7]
R7802	RES_402	m38a[78B3]
R7803	RES_402	m38a[78B3]
R7804	RES_1206	m38a[78B4]
R7805	RES_402	m38a[78B5]
R7812	RES_402	m38a[78B3]
R7840	RES_402	m38a[78C5]
R7892	RES_402	m38a[78B7]
R7901	RES_402	m38a[79C3]
R7902	RES_1206	m38a[79C4]
R7903	RES_402	m38a[79C3]
R7904	RES_402	m38a[79C5]
R7905	RES_402	m38a[79D7]
R7906	RES_402	m38a[79A4]
R7910	RES_402	m38a[79B2]
R7911	RES_402	m38a[79B3]
R7912	RES_402	m38a[79B3]
R7913	RES_402	m38a[79A2]
R7914	RES_402	m38a[79A3]
R7915	RES_402	m38a[79A3]
R7940	RES_402	m38a[79D5]
R7991	RES_402	m38a[79C7]
R7992	RES_402	m38a[79C7]
R7999	RES_402	m38a[79C3]
R8000	RES_402	m38a[80C3]
R8001	RES_402	m38a[80C7]
R8002	RES_1206	m38a[80C4]
R8003	RES_402	m38a[80C3]
R8004	RES_402	m38a[80C5]
R8005	RES_402	m38a[80D7]
R8007	RES_402	m38a[80A4]
R8010	RES_402	m38a[80B2]
R8011	RES_402	m38a[80B3]
R8012	RES_402	m38a[80B3]
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R8092	RES_402	m38a[80C7]
R8099	RES_402	m38a[80C3]
R8101	RES_402	m38a[81C3]
R8102	RES_1206	m38a[81C4]
R8103	RES_402	m38a[81C3]
R8104	RES_402	m38a[81C5]
R8105	RES_402	m38a[81D7]
R8107	RES_402	m38a[81A4]
R8110	RES_402	m38a[81B3]
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R8191	RES_402	m38a[81C7]
R8192	RES_402	m38a[81C7]
R8198	RES_402	m38a[81A5]
R8199	RES_402	m38a[81A5]
R8300	RES_402	m38a[83B4]
R8301	RES_402	m38a[83C5]
R8302	RES_402	m38a[83B5]
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R8496	RES_402	m38a[84A2]
R8497	RES_402	m38a[84A2]
R8502	RES_402	m38a[85D6]
R8503	RES_402	m38a[85D7]
R8504	RES_402	m38a[85D7]
R8505	RES_402	m38a[85C7]
R8506	RES_402	m38a[85C8]
R8507	RES_402	m38a[85D7]
R8508	RES_402	m38a[85C7]
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R8588	RES_402	m38a[85C5]
R8590	RES_402	m38a[85C3]
R8591	RES_402	m38a[85D3]
R8592	RES_402	m38a[85D2]
R8593	RES_402	m38a[85D3]
R8594	RES_402	m38a[85D3]
R8596	RES_402	m38a[85D3]
R8597	THERMISTER_0603-LF	m38a[85D3]
R8598	RES_402	m38a[85D2]
R8599	RES_1206	m38a[85C4]
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R8713	RES_402	m38a[87A7]
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R8721	RES_402	m38a[87A4]
R8722	RES_402	m38a[87B4]
R8723	RES_402	m38a[87A4]
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R8731	RES_402	m38a[87A3]
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R8733	RES_402	m38a[87A1]
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R8803	RES_402	m38a[88D4]
R8804	RES_402	m38a[88D4]
R8805	RES_402	m38a[88C4]
R8806	RES_402	m38a[88C4]
R8807	RES_402	m38a[88C4]
R8808	RES_402	m38a[88C4]
R8809	RES_402	m38a[88C4]
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R8811	RES_402	m38a[88B4]
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R8931	RES_402	m38a[89C7]
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R8944	RES_402	m38a[89B7]
R8945	RES_402	m38a[89B7]
R8946	RES_402	m38a[89B7]
R8947	RES_402	m38a[89B7]
R8948	RES_402	m38a[89A7]
R8949	RES_402	m38a[89A7]
R8980	RES_402	m38a[89C4]
R8981	RES_402	m38a[89C4]
R8982	RES_402	m38a[89C4]
R8983	RES_402	m38a[89C4]
R8990	RES_402	m38a[89B5]
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R8997	RES_402	m38a[89B4]
R8998	RES_402	m38a[89A4]
R8999	RES_402	m38a[89A4]
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R9032	RES_402	m38a[90C7]
R9033	RES_402	m38a[90C7]
R9040	RES_402	m38a[90B8]
R9041	RES_402	m38a[90B8]
R9042	RES_402	m38a[90B7]
R9043	RES_402	m38a[90B7]
R9044	RES_402	m38a[90B7]
R9045	RES_402	m38a[90B7]
R9046	RES_402	m38a[90B7]
R9047	RES_402	m38a[90B7]
R9048	RES_402	m38a[90A7]
R9049	RES_402	m38a[90A7]
R9080	RES_402	m38a[90C4]
R9081	RES_402	m38a[90C4]
R9082	RES_402	m38a[90C4]
R9083	RES_402	m38a[90C4]
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R9095	RES_402	m38a[90B4]
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R9097	RES_402	m38a[90B4]
R9098	RES_402	m38a[90A4]
R9099	RES_402	m38a[90A4]
R9190	RES_402	m38a[91D2]
R9191	RES_402	m38a[91D2]
R9195	RES_402	m38a[91A3]
R9202	RES_402	m38a[92C6]
R9250	RES_402	m38a[92C6]
R9350	RES_402	m38a[93A8]
R9351	RES_402	m38a[93A8]
R9370	RES_402	m38a[93D1]
R9371	RES_402	m38a[93D1]
R9372	RES_402	m38a[93C1]
R9373	RES_402	m38a[93C1]
R9390	RES_402	m38a[93A1]
R9391	RES_402	m38a[93A1]
R9400	RES_402	m38a[94C8]
R9401	RES_402	m38a[94C7]
R9410	RES_402	m38a[94C6]
R9411	RES_402	m38a[94C6]
R9450	RES_402	m38a[94C2]
R9470	RES_402	m38a[94C7]
R9472	RES_402	m38a[94B3]
R9473	RES_402	m38a[94B2]
R9474	RES_402	m38a[94B2]
R9475	RES_402	m38a[94B1]
R9490	RES_805	m38a[94C6]
R9491	RES_805	m38a[94D6]
R9701	RES_402	m38a[97D8]
R9706	RES_402	m38a[97D8]
R9707	RES_402	m38a[97C8]
R9710	RES_402	m38a[97D2]
R9711	RES_402	m38a[97D2]
R9712	RES_402	m38a[97D2]
R9713	RES_402	m38a[97C2]
R9714	RES_402	m38a[97C2]
R9716	RES_402	m38a[97C8]
R9717	RES_402	m38a[97C8]
R9720	RES_402	m38a[97D1]
R9721	RES_402	m38a[97D1]
R9722	RES_402	m38a[97C2]
R9740	RES_402	m38a[97A8]
R9741	RES_402	m38a[97A8]
R9742	RES_402	m38a[97A7]
R9750	RES_402	m38a[97B3]
R9751	RES_402	m38a[97A3]
RP2300	RPAK4P_SM-LF	m38a[23D5]
RP3000	RPAK4P_SM-LF	m38a[30B4 30C4 30D4 30D4]
RP3001	RPAK4P_SM-LF	m38a[30C4 30A4 30A4 30D4]
RP3002	RPAK4P_SM-LF	m38a[30A4 30A4 30A4 30D4]
RP3003	RPAK4P_SM-LF	m38a[30C4 30C4 30C4 30D4]
RP3004	RPAK4P_SM-LF	m38a[30C4 30C4 30D4]
RP3005	RPAK4P_SM-LF	m38a[30B4 30A4 30A4 30D4]
RP3006	RPAK4P_SM-LF	m38a[30B4 30B4 30A4 30D4]
RP3007	RPAK4P_SM-LF	m38a[30C4 30C4 30C4 30C4]
RP3008	RPAK4P_SM-LF	m38a[30C4 30C4 30C4 30C4]
RP3009	RPAK4P_SM-LF	m38a[30B4 30B4 30C4 30C4]
RP3010	RPAK4P_SM-LF	m38a[30B4 30B4 30B4 30B4]
RP3011	RPAK4P_SM-LF	m38a[30B4 30A4 30B4 30B4]
RP7200	RPAK4P_SM-LF	m38a[72A4]
SDF4700	PCB_STANDOFF	m38a[47A2]
SDF4701	PCB_STANDOFF	m38a[47A2]
SDF5300	PCB_STANDOFF	m38a[53A5]
SDF5301	PCB_STANDOFF	m38a[53A5]
SDF9400	PCB_STANDOFF	m38a[94B6]
SDF9401	PCB_STANDOFF	m38a[94A6]
SW2600	SWI_TACT_4SM_EVQPH_S M-LF	m38a[26C6]
SW5900	SWI_TACT_4SM_EVQPH_S M-LF	m38a[59D8]
SW5901	SWI_TACT_4SM_EVQPH_S M-LF	m38a[59B8]
U600	74LC125_TSSOP	m38a[6B7 6B7 6B7 6C7]
U601	SN74LVC1G04_SOT23-5	m38a[6C7]
U650	74AHC1G32_SM-LF	m38a[6A7]
U1000	ADT7461_MSOP	m38a[10D5]
U1200	NB_945GM_BGA	m38a[12D5]
U1200	NB_945GM_BGA	m38a[13D4]
U1200	NB_945GM_BGA	m38a[14D5]
U1200	NB_945GM_BGA	m38a[15D3 15D7]
U1200	NB_945GM_BGA	m38a[16D2 16C8]
U1200	NB_945GM_BGA	m38a[17D5]
U1200	NB_945GM_BGA	m38a[18D4 18D7]
U2100	SB_ICH7M_BGA	m38a[21D6]
U2100	SB_ICH7M_BGA	m38a[22B7 22D3]
U2100	SB_ICH7M_BGA	m38a[23D4]
U2100	SB_ICH7M_BGA	m38a[24D4 24D7]
U2601	MC74VHC1G08_SOT23-5-LF	m38a[26D5]
U2603	SN74LVC1G04_SOT23-5	m38a[26A7]
U2698	MC74VHC1G08_SOT23-5-LF	m38a[26C4]
U2699	MAX6816_SOT143	m38a[26C5]
U3100	LREG_BD3533FVM_MSOP-8	m38a[31C5]
U3301	CLK_GEN_CY284455_QFN	m38a[33C5]
U4101	88E8053_QFN	m38a[41D5]
U4102	EEPROM_M24C08_SO8	m38a[41A3]
U4400	FW32306_TQFP	m38a[44D5]
U4700	SWI_TPS2043_SOI	m38a[47C7]
U5800	SMC_H8S2116_BGA	m38a[58A8 58C3 58C6 58D6]
U5900	VDET_RN5VD_SOT23-5	m38a[59D8]
U5940	VREF_REF3133_SOT23-3	m38a[59A4]
U5999	COMPARATOR_LM393_SOI -1-LF	m38a[59A8 59A8]
U6100	MAX6695_UMAX	m38a[61C4]
U6301	FLASH_SST25VF016B_SOI_SOI	m38a[63D3]
U6700	TPM_TSSOP	m38a[67C5]
U6800	AUDIO_STAC92204XR_LQFP	m38a[68D5]
U7200	MAX9714_QFN-LF	m38a[72C5]
U7400	MAX9890_UCSP1	m38a[74C4]
U7500	ISL6262_QFN	m38a[75C6]
U7501	ZXCT1010_SOT23-5	m38a[76D7]
U7700	LTC3411_MSOP-LF	m38a[77D3]
U7710	MC74VHC1G08_SOT23-5-LF	m38a[77D5]
U7711	MC74VHC1G08_SOT23-5-LF	m38a[77C5]
U7712	MC74VHC1G08_SOT23-5-LF	m38a[77D4]
U7750	SN2005050G8_SOP	m38a[77B6]
U7800	ISL6549_QFN	m38a[78C6]
U7900	ISL6549_QFN	m38a[79D6]
U7901	COMPARATOR_LM339A_SOI-LF	m38a[79A5]
U7901	COMPARATOR_LM339A_SOI-LF	m38a[80A4]
U7901	COMPARATOR_LM339A_SOI-LF	m38a[81A5]
U7910	COMPARATOR_LM339A_SOI-LF	m38a[79A3 79B3]
U7910	COMPARATOR_LM339A_SOI-LF	m38a[80B2]
U7910	COMPARATOR_LM339A_SOI-LF	m38a[81B3]
U8000	ISL6549_QFN	m38a[80D6]
U8100	ISL6549_QFN	m38a[81D6]
U8400	ATI_M56P_BGA	m38a[84C8 84D4]
U8400	ATI_M56P_BGA	m38a[86D4]
U8400	ATI_M56P_BGA	m38a[87D2 87D6]
U8400	ATI_M56P_BGA	m38a[91D4]
U8400	ATI_M56P_BGA	m38a[93C4]
U8500	ISL6269_QFN	m38a[85D6]
U8595	OPAMP_LMV2011_SOT23-5	m38a[85D2]
U8900	SGRAM_16MX32_GDDR3_136H_FBGA	m38a[89D6 89B6]
U8950	SGRAM_16MX32_GDDR3_136H_FBGA	m38a[89D3 89B3]
U9000	SGRAM_16MX32_GDDR3_136H_FBGA	m38a[90D6 90B6]
U9050	SGRAM_16MX32_GDDR3_136H_FBGA	m38a[90D3 90B3]
U9470	MC74VHC1G08_SOT23-5-LF	m38a[94B2]
U9750	74AHC1G32_SM-LF	m38a[97B4]
U9751	74AHC1G32_SM-LF	m38a[97A4]
VR6800	LREG_MAX1819_UCSP	m38a[68A4]
XC7200	MTGHOLE	m38a[72B3]
XW601	SHORT_SM	m38a[6C2]
XW602	SHORT_SM	m38a[6C2]
XW604	SHORT_SM	m38a[6A5]
XW605	SHORT_SM	m38a[6A5]
XW5800	SHORT_SM	m38a[58B3]
XW5900	SHORT_SM	m38a[59B1]
XW6801	SHORT_SM	m38a[68B5]
XW7201	SHORT_SM	m38a[72B2]
XW7300	SHORT_SM	m38a[73C3]
XW7307	SHORT_SM	m38a[73C6]
XW7400	SHORT_SM	m38a[74A4]
XW7440	SHORT_SM	m38a[74C2]
XW7500	SHORT_SM	m38a[75A6]
XW7501	SHORT_SM	m38a[75B2]
XW7502	SHORT_SM	m38a[75B1]
XW7503	SHORT_SM	m38a[75D2]
XW7504	SHORT_SM	m38a[75D1]
XW7598	SHORT_SM	m38a[76D7]
XW7700	SHORT_SM	m38a[77C2]
XW7750	SHORT_SM	m38a[77A5]
XW7800	SHORT_SM	m38a[78B6]
XW7900	SHORT_SM	m38a[79C6]
XW8000	SHORT_SM	m38a[80C6]
XW8100	SHORT_SM	m38a[81C6]
XW8500	SHORT_SM	m38a[85C6]
Y2600	CRYSTAL_4PIN_SM-LF	m38a[26D8]
Y3301	CRYSTAL_5X3.2-SM	m38a[33C7]
Y4101	CRYSTAL_SM-3-LF	m38a[41B5]
Y4400	CRYSTAL_HC49-USMD	m38a[44D2]
Y5800	CRYSTAL_SM-3	m38a[59B8]
Y6700	CRYSTAL_4PIN_SM-LF	m38a[59B7]
ZH500	HOLE_VIA	m38a[5C1]
ZH501	HOLE_VIA	m38a[5C1]
ZH502	HOLE_VIA	m38a[5C1]
ZH503	HOLE_VIA	m38a[5C1]
ZH504	HOLE_VIA	m38a[5B1]
ZH505	HOLE_VIA	m38a[5B1]
ZH506	HOLE_VIA	m38a[5B1]
ZH507	HOLE_VIA	m38a[5B1]
ZH508	HOLE_VIA	m38a[5B1]
ZH509	HOLE_VIA	m38a[5B1]
ZH510	HOLE_VIA	m38a[5C1]
ZH511	HOLE_VIA	m38a[5C1]
ZH512	HOLE_VIA	m38a[5C1]
ZH513	HOLE_VIA	m38a[5C1]
ZH514	HOLE_VIA	m38a[5B1]
ZH515	HOLE_VIA	m38a[5B1]
ZH516	HOLE_VIA	m38a[5B1]
ZH517	HOLE_VIA	m38a[5B1]
ZH518	HOLE_VIA	m38a[5B1]
ZH519	HOLE_VIA	m38a[5B1]
ZH520	HOLE_VIA	m38a[5C1]
ZH521	HOLE_VIA	m38a[5C1]
ZH522	HOLE_VIA	m38a[5C1]
ZH523	HOLE_VIA	m38a[5C1]
ZH524	HOLE_VIA	m38a[5B1]
ZH525	HOLE_VIA	m38a[5B1]
ZH526	HOLE_VIA	m38a[5B1]
ZH527	HOLE_VIA	m38a[5B1]
ZH528	HOLE_VIA	m38a[5B1]
ZH529	HOLE_VIA	m38a[5B1]
ZH601	MTGHOLE	m38a[6A3]
ZH602	MTGHOLE	m38a[6A3]
ZH603	MTGHOLE	m38a[6A3]
ZH604	MTGHOLE	m38a[6B3]
ZH606	MTGHOLE	m38a[6A1]
ZH607	MTGHOLE	m38a[9D4]
ZH608	MTGHOLE	m38a[9D3]
ZH609	MTGHOLE	m38a[9D2]
ZH610	MTGHOLE	m38a[9D2]
ZH611	MTGHOLE	m38a[9C3]