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.

M38 - DVT

11/16/05

REV	ZONE	ECN	DESCRIPTION OF CHANGE	CK APPD DATE	ENG APPD DATE
09		400372	ENGINEERING RELEASED	09/16/05	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

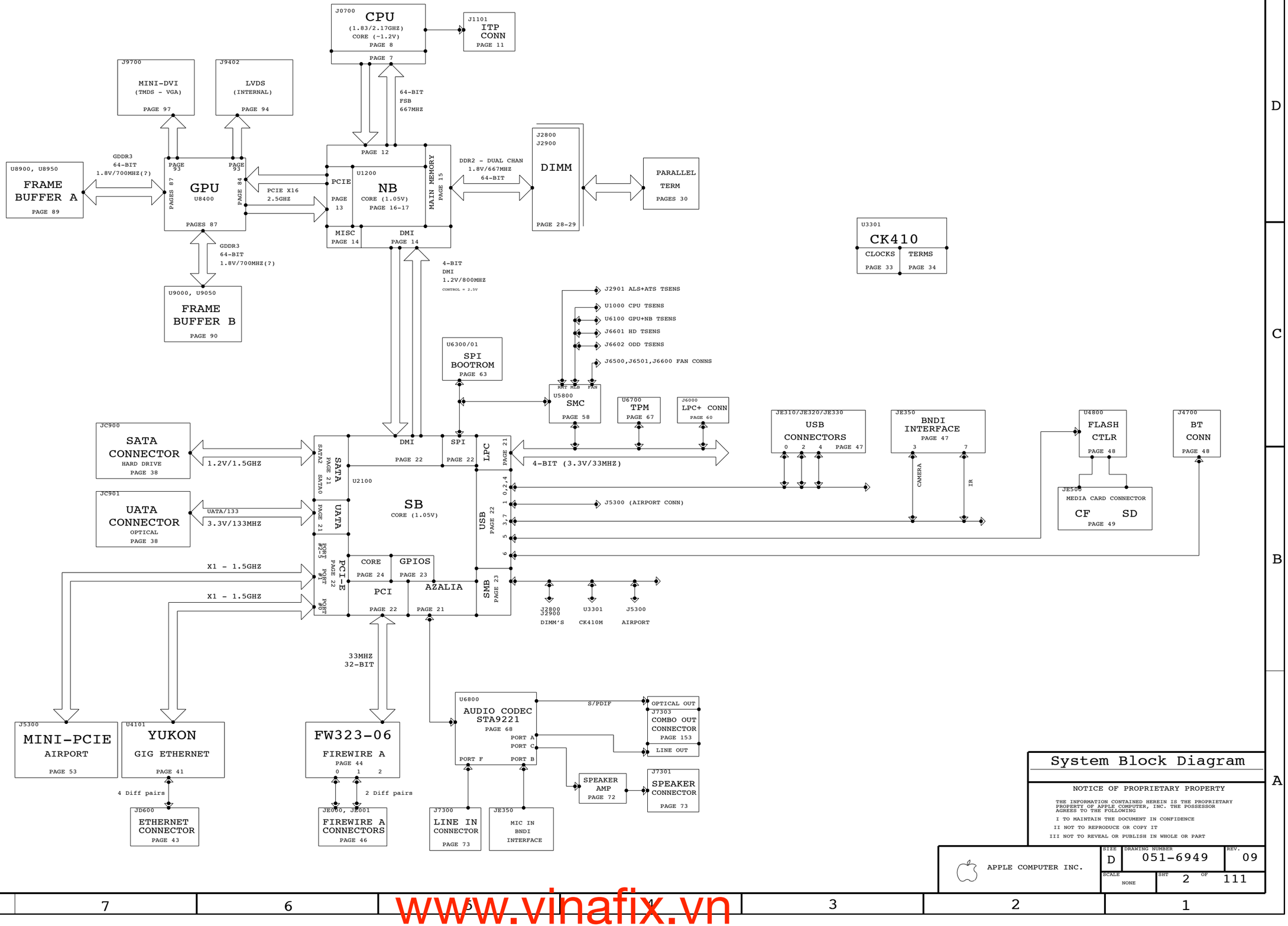
SIZE D

Apple Computer Inc.

TITLE: SCHEM,M38

DRAWING NUMBER 051-6949 REV. 09

SHT 1 OF 111



System Block Diagram

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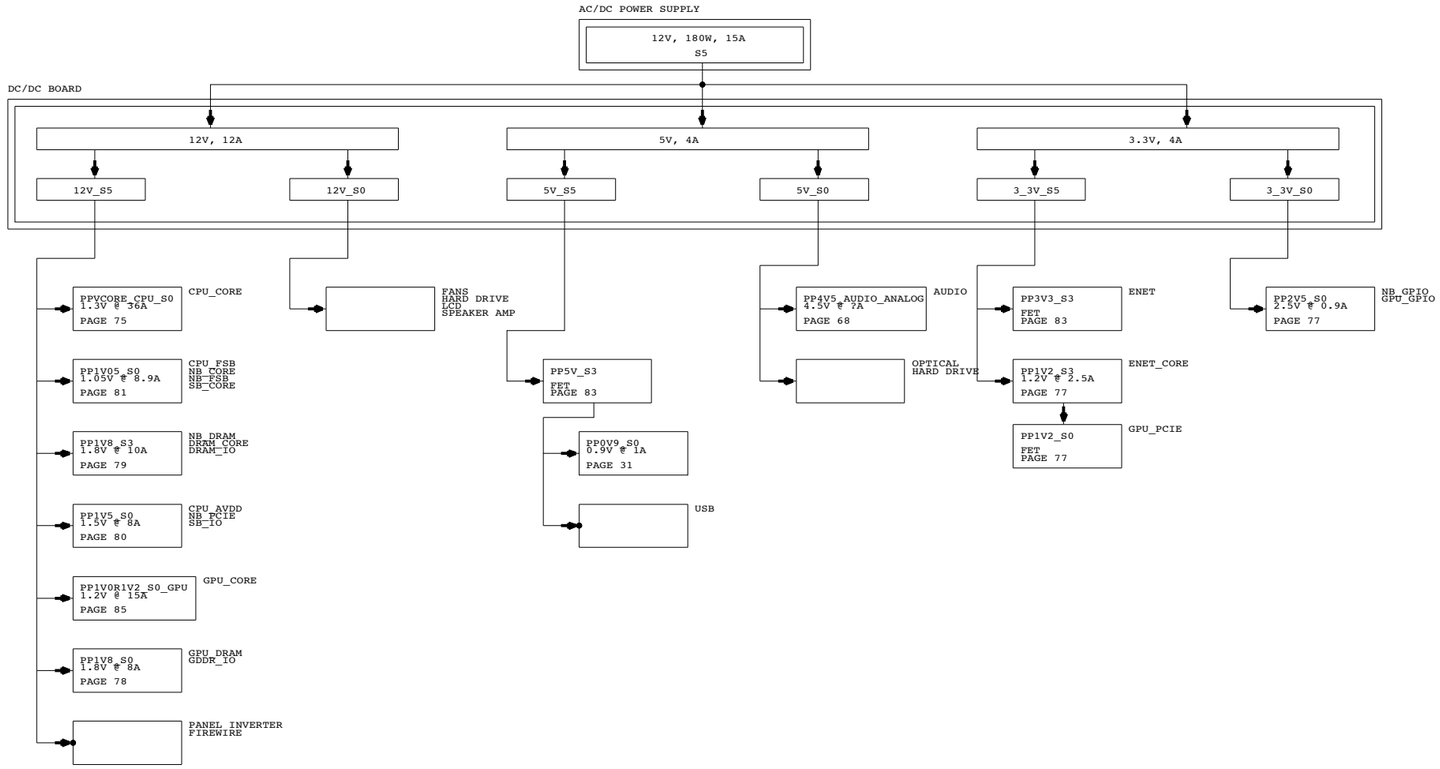
APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09

SCALE: NONE

SHT 2 OF 111



Power Block Diagram

APPLE COMPUTER INC.

SIZE D | DRAWING NUMBER 051-6949 | REV. 09

SCALE NONE | SHT 3 OF 111

COMMON

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
511S0025	1	IC,CPU-SKT,479BGA	J0700	CRITICAL	
338S0269	1	IC,945GM,NORTHBRIDGE	U1200	CRITICAL	
343S0385	1	IC,SB,652BGA	U2100	CRITICAL	
742-0048	1	BAT,COIN,3V,220MAH,CR2032	BT2600	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	
338S0274	1	IC,SMC,HS8/2116,BLANK	U5800	CRITICAL	
341S1789	1	IC,TPM,TSSOP,28P	U6700	CRITICAL	LEMENU
353S1235	1	IC,CPU VREG,IMVP,TWO PHASE	U7500	CRITICAL	
338S0266	1	IC,ATI,M56P,GRAFIX CTLR,880BGA,LF	U8400	CRITICAL	ATI_B24
338S0305	1	IC,ATI,M56P,GRAFIX CTLR,880BGA,LF	U8400	CRITICAL	ATI_A24
128S0078	3	CAP,EL,AL,330UF,20%,16V,10X12.7MM,SMD,LF	C7517,C7518,C7910	CRITICAL	

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
126S0096	126S0076		C7801	SANYO W16CE680XX 680UF 16V LF
126S0086	126S0078		C699,C940,C1900,C1901,C1968	SANYO W6CE330FS 330UF 6.3V LF
128S0080	128S0078		C7517,C7518,C7910	SANYO 16SVPJ30M 330UF 16V SMD LF
197S0177	197S0020		Y4101	XTAL,25MHZ,50PPM,16PF,3.2X2.5 SMD,LF
338S0302	338S0266		U8400	IC,ATI,M36D,GRAFIX CTLR,880BGA,LF

M38

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
051-6949	1	PCB,SCHEM,MLB,M38	SCH1		17_INCH_LCD
820-1919	1	PCB,FAB,MLB,M38	MLB1		17_INCH_LCD
(335S0384) 341T0003	1	EFI ROM,M38	U6301	CRITICAL	17_INCH_LCD
337S3241	1	M38/M39 LOW-SPEED CPU (QINY)	CPU	CRITICAL	CPU_M38
337S3242	1	M00-SPEED CPU (QINZ)	CPU	CRITICAL	CPU_M00

M39

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
051-6950	1	PCB,SCHEM,MLB,M39	SCH1		20_INCH_LCD
820-1888	1	PCB,FAB,MLB,M39	MLB1		20_INCH_LCD
(335S0384) 341T0004	1	EFI ROM,M39	U6301	CRITICAL	20_INCH_LCD
337S3243	1	M39 HI-SPEED CPU (QHJJ)	CPU	CRITICAL	CPU_M39

M38 / M39

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

M39 - CTO

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

Table Items

APPLE COMPUTER INC.

SIZE D | DRAWING NUMBER 051-6949 | REV. 09

SCALE NONE | SHT 4 OF 111

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 1 A SM-TP50-TOP
19 12 6	=PP1V05_S0_FSB_NB	PP1201 1 A SM-TP50-TOP
		PP1202 1 A SM-TP50-TOP

PLACE NEAR R0705 AND R0706

59 11 9 8 7 6	=PP1V05_S0_CPU	PP700 1 A SM-TP50-TOP
7	CPU_GTLREF	PP701 1 A SM-TP50-TOP
		PP702 1 A SM-TP50-TOP

PLACE NEAR R2800 AND R2801

29 28 6	=PP1V8_S3_MEM	PP2800 1 A SM-TP50-TOP
29 28	MEM_VREF	PP2801 1 A SM-TP50-TOP
		PP2802 1 A 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	

79 77 76 66 65 59 26 6	PP3V3_S5	FUNC_TEST=TRUE	
83 81 80 79 59 6	PP5V_S5	FUNC_TEST=TRUE	
88 83 81 80 79 78 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_SB_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
59 11 7	XDP_TCK	FUNC_TEST=TRUE
59 11 7	XDP_TDI	FUNC_TEST=TRUE
59 11 7	XDP_TDO	FUNC_TEST=TRUE
59 11 7	XDP_TMS	FUNC_TEST=TRUE
59 11 7	XDP_TRST_L	FUNC_TEST=TRUE
59	POWER_BUTTON_L	FUNC_TEST=TRUE
26	SW_RST_BTN_L	FUNC_TEST=TRUE

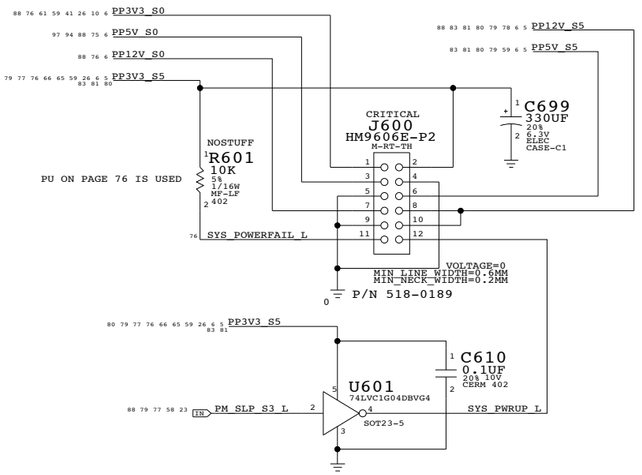
MISC GROUND VIAS

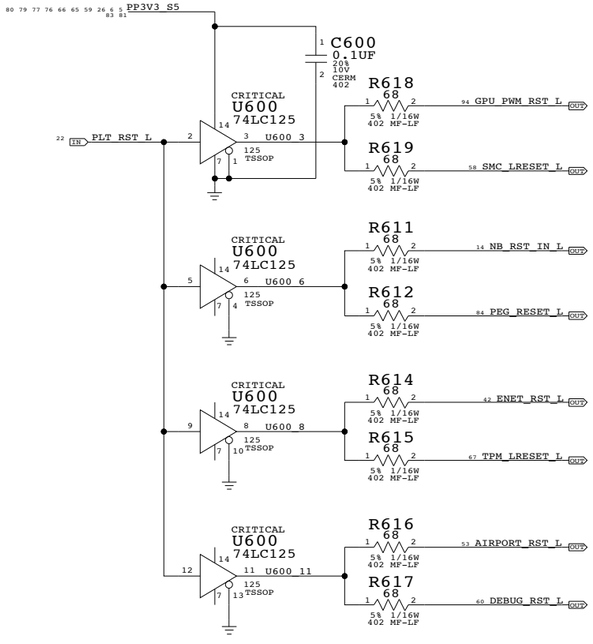
ZH500 HOLE-VIA	ZH510 HOLE-VIA	ZH520 HOLE-VIA
ZH501 HOLE-VIA	ZH511 HOLE-VIA	ZH521 HOLE-VIA
ZH502 HOLE-VIA	ZH512 HOLE-VIA	ZH522 HOLE-VIA
ZH503 HOLE-VIA	ZH513 HOLE-VIA	ZH523 HOLE-VIA
ZH504 HOLE-VIA	ZH514 HOLE-VIA	ZH524 HOLE-VIA
ZH505 HOLE-VIA	ZH515 HOLE-VIA	ZH525 HOLE-VIA
ZH506 HOLE-VIA	ZH516 HOLE-VIA	ZH526 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

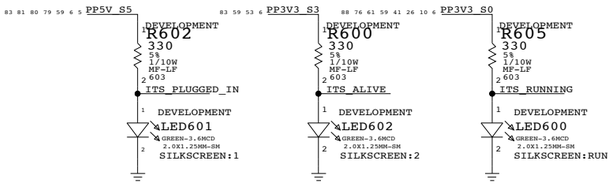
FUNC TEST 1 OF 2

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 5 OF 111	







"S0" RAILS

ONLY ON IN RUN

PP0V9_S0 — MAKE_BASE=TRUE, VOLTAGE=0.9V, MIN_LINE_WIDTH=0.3MM, MIN_NECK_WIDTH=0.15MM
- =PP0V9_S0_MEMVTT_LDO (31)
- =PP0V9_S0_MEM_TERM (30)

PPVCORE_CPU — MAKE_BASE=TRUE, VOLTAGE=1.25V, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.15MM
- =PPVCORE_S0_CPU (8 9 76)

PP1V05_S0 — MAKE_BASE=TRUE, VOLTAGE=1.05V, MIN_LINE_WIDTH=0.3MM, MIN_NECK_WIDTH=0.15MM
- =PPVCORE_S0_NB (16 19)
- =PP1V05_S0_CPU (5 7 8 9 11 59)
- =PP1V05_S0_FSB_NB (5 12 19)
- =PP1V05_S0_NB_VTT (17 19)
- =PP1V05_S0_NB (19)
- =PP1V05_S0_SB_CPU_IO (21 24 25)
- =PPVCORE_S0_SB (24 25)

PP1V5_S0 — MAKE_BASE=TRUE, VOLTAGE=1.5V, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.15MM
- =PP1V5_S0_CPU (8)
- =PP1V5_S0_NB_PCIE (13 19)
- =PP1V5_S0_NB_VCCAUX (6 16 17 19)
- =PP1V5_S0_NB_VCCD_HMPLL (17 19)
- =PP1V5_S0_NB_VCCAUX (6 16 17 19)
- =PP1V5_S0_NB_PLL (19)
- =PP1V5_S0_NB (19)
- =PP1V5_S0_NB_TVDAC (19)
- =PP1V5_S0_NB_3GPLL (19)
- =PP1V5_S0_SB_VCC1_5_A_ARX (24 25)
- =PP1V5_S0_SB_VCCSATAPLL (24 25)
- =PP1V5_S0_SB_VCC1_5_A_ATX (24 25)
- =PP1V5_S0_SB_VCCUSBPLL (24 25)
- =PP1V5_S0_SB_VCC1_5_A_USB_CORE (24 25)
- =PP1V5_S0_SB_VCC1_5_A (24 25)
- =PP1V5_S0_SB (25)
- =PP1V5_S0_AIRPORT (53)

PP2V5_S0 — MAKE_BASE=TRUE, VOLTAGE=3.3V, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.15MM
- =PP2V5_S0_NB_VCCA_3GBG (17 19)

PP3V3_S0 — MAKE_BASE=TRUE, VOLTAGE=3.3V, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.15MM
- =PP3V3_S0_NB_PM
- =PP3V3_S0_NB_VCC_HV (17 19)
- =PP3V3_S0_NB_TVDAC (19)
- =PP3V3_S0_SB (22 25)
- =PP3V3_S0_SB_GPIO (21 23)
- =PP3V3_S0_SB_VCC3_3 (24 25)
- =PP3V3_S0_SB_VCC3_3_PCI (24 25)
- =PP3V3_S0_SB_VCC3_3_IDE (24 25)
- =PP3V3_S0_SB_PCI (26)
- =PP3V3_S0_SB_PM (26)
- =PP3V3_S0_PATA (38)
- =PP3V3_S0_FAN (59 65 66)
- =PP3V3_S0_HD_TSENS (66)
- =PP3V3_S0_ODD_TSENS (66)
- =PP3V3_S0_SB_3V3_1V5_VCCHDA (24 25)
- =PP3V3_S0_TPM (67)
- =PPSPD_S0_MEM (28 29)
- =PP3V3_S0_CK410 (33 34)
- =PP3V3_S0_IMVP (75)
- =PP3V3_S0_AUDIO (68 72 73 74)
- =PP3V3_S0_PCI (44)
- =PP3V3_S0_SB_VCCLAN3_3 (24 25)
- =PP3V3_S0_AIRPORT (53)
- =PP3V3_S0_2V5REG (77)
- =PP3V3_S0_NB (14 19 20)

PP5V_S0 — MAKE_BASE=TRUE, VOLTAGE=5V, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.15MM
- =PP5V_S0_SB (25)
- =PP5V_S0_PATA (38)
- XW604 SM OMIT: PP5V_S0_AUDIO — MAKE_BASE=TRUE — =PP5V_S0_AUDIO (68)
- =PP5V_S0_DEBUG (60)

PP12V_S0 — MAKE_BASE=TRUE, VOLTAGE=12V, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.15MM
- =PP12V_S0_FAN (65 66)
- XW605 SM OMIT: PP12V_S0_AUDIO_SPKRAMP — MAKE_BASE=TRUE — =PP12V_S0_AUDIO_SPKRAMP (72)

"S3" RAILS

ON IN RUN AND SLEEP

PP1V2_S3 — MAKE_BASE=TRUE, VOLTAGE=1.8V, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.2MM
- =PP1V2_S3_LAN (42)

PP1V8_S3 — MAKE_BASE=TRUE, VOLTAGE=1.8V, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.2MM
- =PP1V8_S3_MEM_NB (6 14 16 19)
- =PP1V8_S3_MEM_NB (6 14 16 19)
- =PP1V8_S3_MEM (5 28 29)
- =PP1V8_S0_MEMVTT (31)

PP3V3_S3 — MAKE_BASE=TRUE, VOLTAGE=3.3V, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.25MM
- =PP3V3_S3_ENET (41 42 43)
- =PP3V3_S3_TPM (67)
- =PP3V3_S3_1V2REG (77)
- =PP3V3_S3_BT (47)
- =PP3V3_S3_USB (49)
- =PP3V3_S3_VGASYNC (97)

PP5V_S3 — MAKE_BASE=TRUE, VOLTAGE=5V, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.25MM
- =PP5V_S3_USB (47)
- =PP5V_S3_BNDI (47)
- =PP5V_S0_MEMVTT (31)

"S5" RAILS

ALWAYS ON WHEN UNIT HAS AC POWER (TRICKLE)

PP3V3_S5 — MAKE_BASE=TRUE, VOLTAGE=3.3V, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.2MM
- =PP3V3_S5_SB (23 25 26)
- =PP3V3_S5_SB_USB (22)
- =PP3V3_S5_SB_PM (11 23)
- =PP3V3_S5_SB_VCCSUS3_3 (24 25)
- =PP3V3_S5_SB_VCCSUS3_3_USB (24 25)
- =PP3V3_S5_SB_3V3_1V5_VCCSUSHDA (24)
- =PP3V3_S5_SB_IO (22 27)
- =PP3V3_S5_FW (44 45 46)
- =PP3V3_S5_SMC (58 59)
- =PP3V3_S5_DEBUG (60)
- =PP3V3_S5_ROM (63)

PP5V_S5 — MAKE_BASE=TRUE, VOLTAGE=5V, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.2MM
- =PP5V_S5_SB (25)

PP12V_S5 — MAKE_BASE=TRUE, VOLTAGE=12V, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.2MM
- =PP12V_S5_FW (46)
- =PP12V_S5_CPU (76)

GND RAILS

XW601 SM NOSTUFF: GND_AUDIO (74)

XW602 SM NOSTUFF: GND_AUDIO_SPKRAMP (74 72)

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 (74 73)

GND_CHASSIS_USB (47)

GND_CHASSIS_FIREWIRE (46)

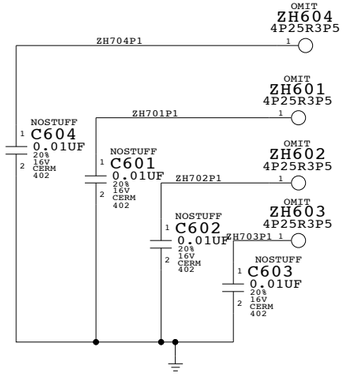
GND_CHASSIS_VGA (97)

GND_CHASSIS_RJ45 (43)

GND_CHASSIS_IO_RIGHT — MAKE_BASE=TRUE, VOLTAGE=0, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.2MM

GND_CHASSIS_AUDIO_INTERNAL (73) — OMIT ZH606 160R138

GND_CHASSIS_BNDI (47) — MIN_NECK_WIDTH=0.2MM, MIN_LINE_WIDTH=0.6MM, VOLTAGE=0, MAKE_BASE=TRUE



Power Conn / Alias

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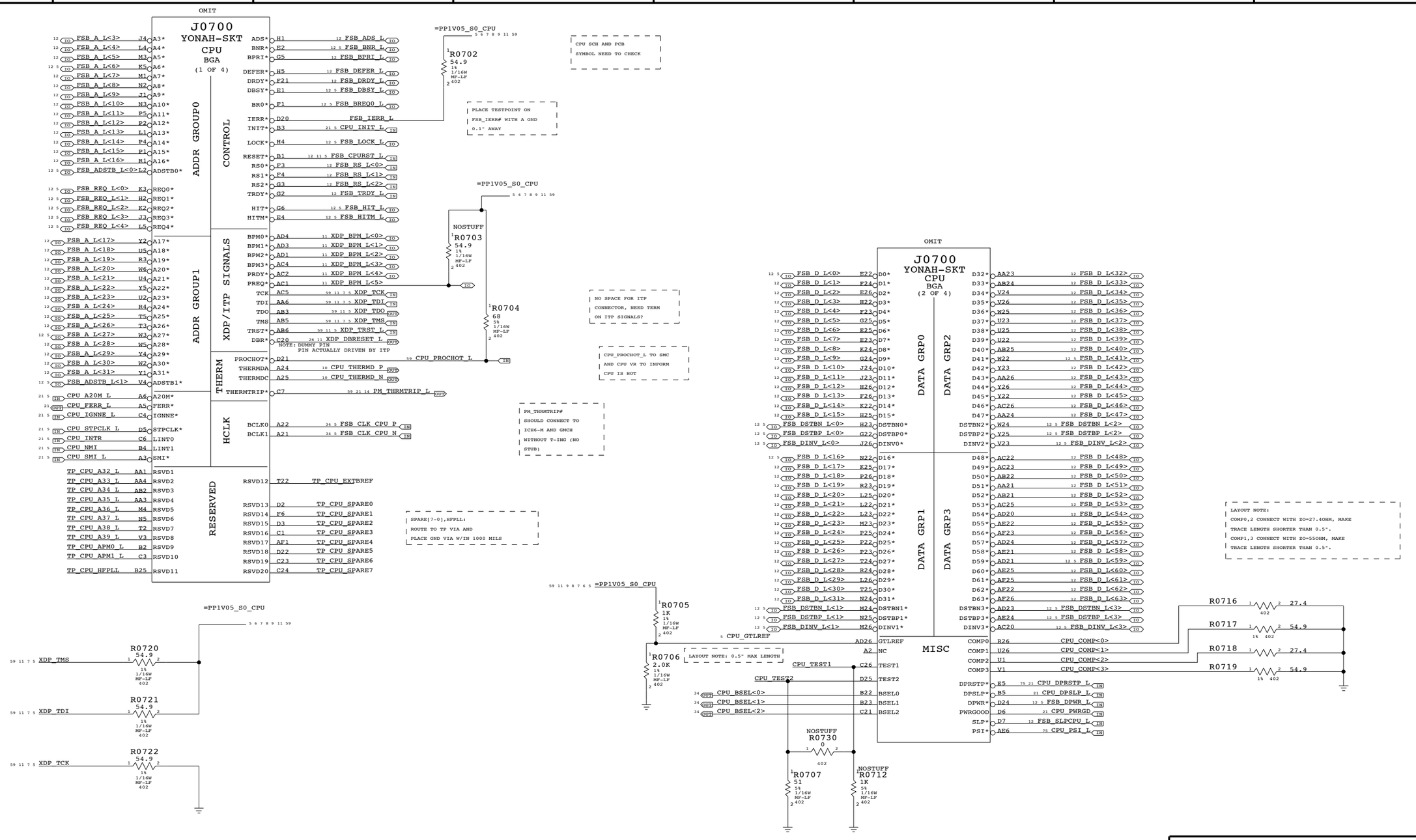
APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 6 OF 111	



CPU 1 OF 2-FSB

SYNC_MASTER=MASTER SYNC_DATE=05/03/2005

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APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 7 OF 111	

=PPVCORE_S0_CPU 6 8 9 76

OMIT

J0700 YONAH-SKT CPU BGA (3 OF 4)

A7	VCC_1	VCC_68	AB20
A9	VCC_2	VCC_69	AB7
A10	VCC_3	VCC_70	AC7
A12	VCC_4	VCC_71	AC9
A13	VCC_5	VCC_72	AC12
A15	VCC_6	VCC_73	AC13
A17	VCC_7	VCC_74	AC15
A18	VCC_8	VCC_75	AC17
A20	VCC_9	VCC_76	AC18
B7	VCC_10	VCC_77	AD7
B9	VCC_11	VCC_78	AD9
B10	VCC_12	VCC_79	AD10
B12	VCC_13	VCC_80	AD12
B14	VCC_14	VCC_81	AD14
B15	VCC_15	VCC_82	AD15
B17	VCC_16	VCC_83	AD17
B18	VCC_17	VCC_84	AD18
B20	VCC_18	VCC_85	AE9
C9	VCC_19	VCC_86	AE10
C10	VCC_20	VCC_87	AE12
C12	VCC_21	VCC_88	AE13
C13	VCC_22	VCC_89	AE15
C15	VCC_23	VCC_90	AE17
C17	VCC_24	VCC_91	AE18
C18	VCC_25	VCC_92	AE20
D9	VCC_26	VCC_93	AF9
D10	VCC_27	VCC_94	AF10
D12	VCC_28	VCC_95	AF12
D14	VCC_29	VCC_96	AF14
D15	VCC_30	VCC_97	AF15
D17	VCC_31	VCC_98	AF17
D18	VCC_32	VCC_99	AF18
E7	VCC_33	VCC_100	AF20
E9	VCC_34		
E10	VCC_35	VCCP_1	V6
E12	VCC_36	VCCP_2	G21
E13	VCC_37	VCCP_3	J6
E15	VCC_38	VCCP_4	K6
E17	VCC_39	VCCP_5	M6
E18	VCC_40	VCCP_6	J21
E20	VCC_41	VCCP_7	K21
F7	VCC_42	VCCP_8	M21
F9	VCC_43	VCCP_9	N21
F10	VCC_44	VCCP_10	N6
F12	VCC_45	VCCP_11	R21
F14	VCC_46	VCCP_12	R6
F15	VCC_47	VCCP_13	T21
F17	VCC_48	VCCP_14	T6
F18	VCC_49	VCCP_15	V21
F20	VCC_50	VCCP_16	W21
AA7	VCC_51		
AA9	VCC_52		
AA10	VCC_53		
AA12	VCC_54		
AA13	VCC_55	VCCA	B26
AA15	VCC_56		
AA17	VCC_57	VID0	AD6
AA18	VCC_58	VID1	AF5
AA20	VCC_59	VID2	AE5
AB9	VCC_60	VID3	AF4
AC10	VCC_61	VID4	AE3
AB10	VCC_62	VID5	AF2
AB12	VCC_63	VID6	AE2
AB14	VCC_64		
AB15	VCC_65	VCCSENSE	AF7
AB17	VCC_66		
AB18	VCC_67	VSSSENSE	AE7

=PPVCORE_S0_CPU 6 8 9 76

=PP1V05_S0_CPU 5 6 7 9 11 59

=PP1V5_S0_CPU 6 8

VCCA=1.5 ONLY

75 CPU_VID<0> OUT
75 CPU_VID<1> OUT
75 CPU_VID<2> OUT
75 CPU_VID<3> OUT
75 CPU_VID<4> OUT
75 CPU_VID<5> OUT
75 CPU_VID<6> OUT

=PPVCORE_S0_CPU 6 8 9 76

R0802 100 1% 1/16W MF-LF 402

75 CPU_VCCSENSE_P OUT

75 CPU_VCCSENSE_N OUT

R0803 100 1% 1/16W MF-LF 402

LAYOUT NOTE: CONNECT R0802-03 TO VCCSENSE_P/N WITH NO STUB

LAYOUT NOTE:
PROVIDE A TEST POINT (WITH NO STUB) TO CONNECT A DIFFERENCTIAL PROBE BETWEEN VCCSENSE AND VSSSENSE AT THE LOCATION WHERE THE TWO 54.9 OHM RESISTORS TERMINATE THE 55 OHM TRANSMISSION LINE

=PP1V5_S0_CPU 6 8

C0800 0.01UF 20% 16V CERM 402

C0801 10UF 20% 6.3V X5R 603

OMIT

J0700 YONAH-SKT CPU BGA (4 OF 4)

A4	VSS_1	VSS_82	P6
A8	VSS_2	VSS_83	P21
A11	VSS_3	VSS_84	P24
A14	VSS_4	VSS_85	R2
A16	VSS_5	VSS_86	R5
A19	VSS_6	VSS_87	R22
A23	VSS_7	VSS_88	R25
A26	VSS_8	VSS_89	T1
B6	VSS_9	VSS_90	T4
B8	VSS_10	VSS_91	T23
B11	VSS_11	VSS_92	T26
B13	VSS_12	VSS_93	U3
B16	VSS_13	VSS_94	U6
B19	VSS_14	VSS_95	U21
B21	VSS_15	VSS_96	U24
B24	VSS_16	VSS_97	V2
C5	VSS_17	VSS_98	V5
C8	VSS_18	VSS_99	V22
C11	VSS_19	VSS_100	V25
C14	VSS_20	VSS_101	W1
C16	VSS_21	VSS_102	W4
C19	VSS_22	VSS_103	W23
C2	VSS_23	VSS_104	W26
C22	VSS_24	VSS_105	Y3
C25	VSS_25	VSS_106	Y6
D1	VSS_26	VSS_107	Y21
D4	VSS_27	VSS_108	Y24
D8	VSS_28	VSS_109	AA2
D11	VSS_29	VSS_110	AA5
D13	VSS_30	VSS_111	AA8
D16	VSS_31	VSS_112	AA11
D19	VSS_32	VSS_113	AA14
D23	VSS_33	VSS_114	AA16
D26	VSS_34	VSS_115	AA19
E3	VSS_35	VSS_116	AA22
E6	VSS_36	VSS_117	AA25
E8	VSS_37	VSS_118	AB1
E11	VSS_38	VSS_119	AB4
E14	VSS_39	VSS_120	AB8
E16	VSS_40	VSS_121	AB11
E19	VSS_41	VSS_122	AB13
E21	VSS_42	VSS_123	AB16
E24	VSS_43	VSS_124	AB19
F5	VSS_44	VSS_125	AB23
F8	VSS_45	VSS_126	AB26
F11	VSS_46	VSS_127	AC3
F13	VSS_47	VSS_128	AC6
F16	VSS_48	VSS_129	AC8
F19	VSS_49	VSS_130	AC11
F2	VSS_50	VSS_131	AC14
F22	VSS_51	VSS_132	AC16
F25	VSS_52	VSS_133	AC19
G4	VSS_53	VSS_134	AC21
G1	VSS_54	VSS_135	AC24
G23	VSS_55	VSS_136	AD2
G26	VSS_56	VSS_137	AD5
H3	VSS_57	VSS_138	AD8
H6	VSS_58	VSS_139	AD11
H21	VSS_59	VSS_140	AD13
H24	VSS_60	VSS_141	AD16
J2	VSS_61	VSS_142	AD19
J5	VSS_62	VSS_143	AD22
J22	VSS_63	VSS_144	AD25
J25	VSS_64	VSS_145	AE1
K1	VSS_65	VSS_146	AE4
K4	VSS_66	VSS_147	AE8
K23	VSS_67	VSS_148	AE11
K26	VSS_68	VSS_149	AE14
L3	VSS_69	VSS_150	AE16
L6	VSS_70	VSS_151	AE19
L21	VSS_71	VSS_152	AE23
L24	VSS_72	VSS_153	AE26
M2	VSS_73	VSS_154	AF3
M5	VSS_74	VSS_155	AF6
M22	VSS_75	VSS_156	AF8
M25	VSS_76	VSS_157	AF11
N1	VSS_77	VSS_158	AF13
N4	VSS_78	VSS_159	AF16
N23	VSS_79	VSS_160	AF19
N26	VSS_80	VSS_161	AF21
P3	VSS_81	VSS_162	AF24

CPU 2 OF 2-PWR/GND

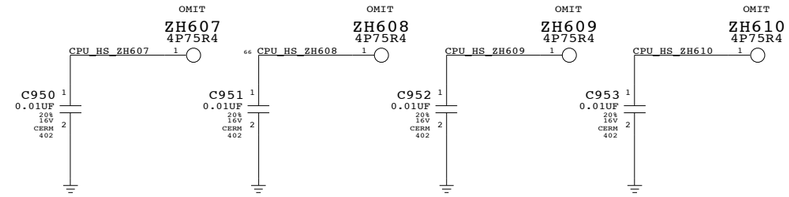
SYNC_MASTER=MASTER SYNC_DATE=05/03/2005

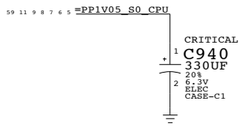
APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09

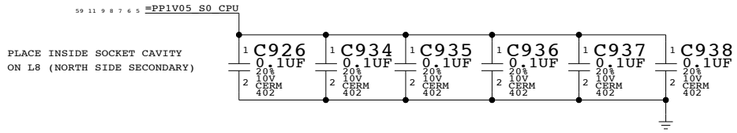
SCALE NONE SHT 8 OF 111

CPU HEATSINK MOUNTING HOLES

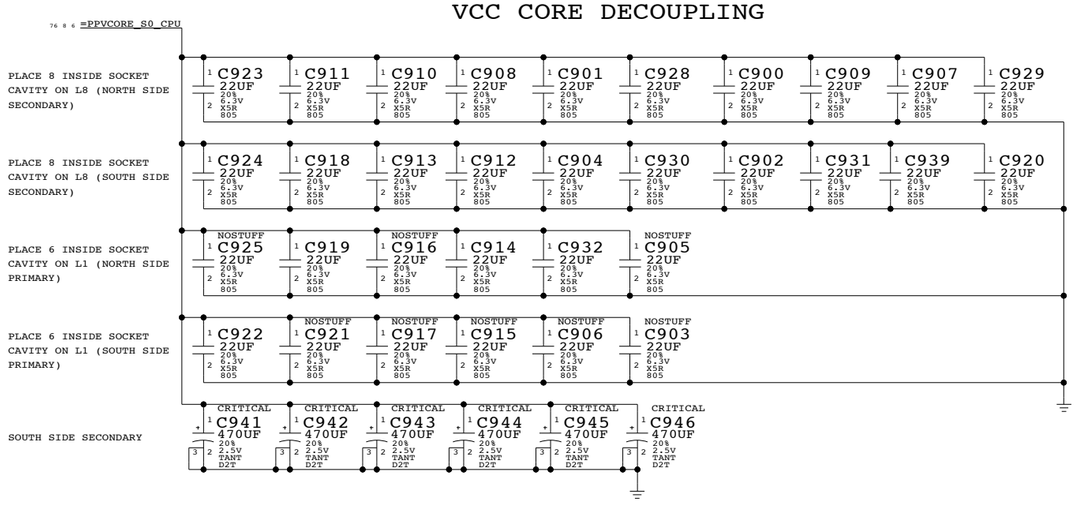




VCCP CORE DECOUPLING



VCC CORE DECOUPLING



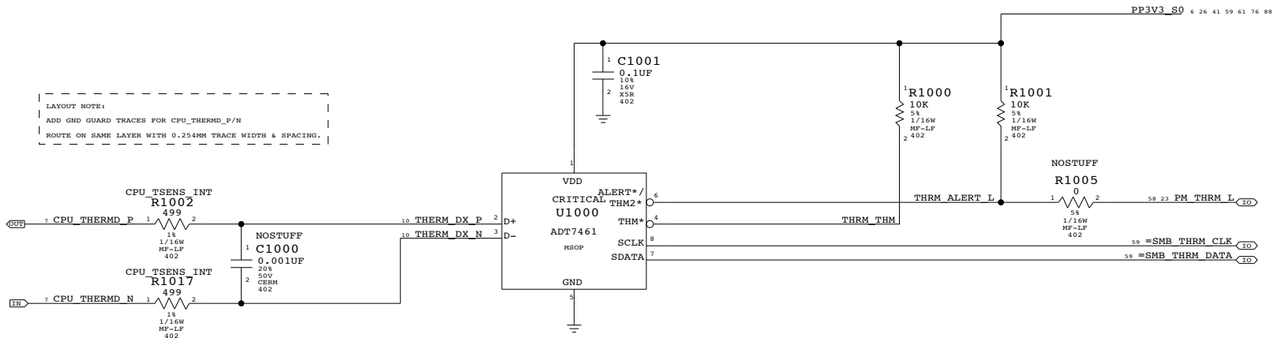
CPU DECAPS & VID<>

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 9 OF 111	

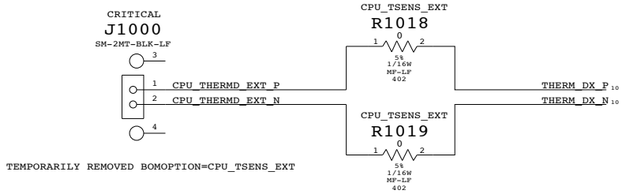
CPU THERMAL SENSOR

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



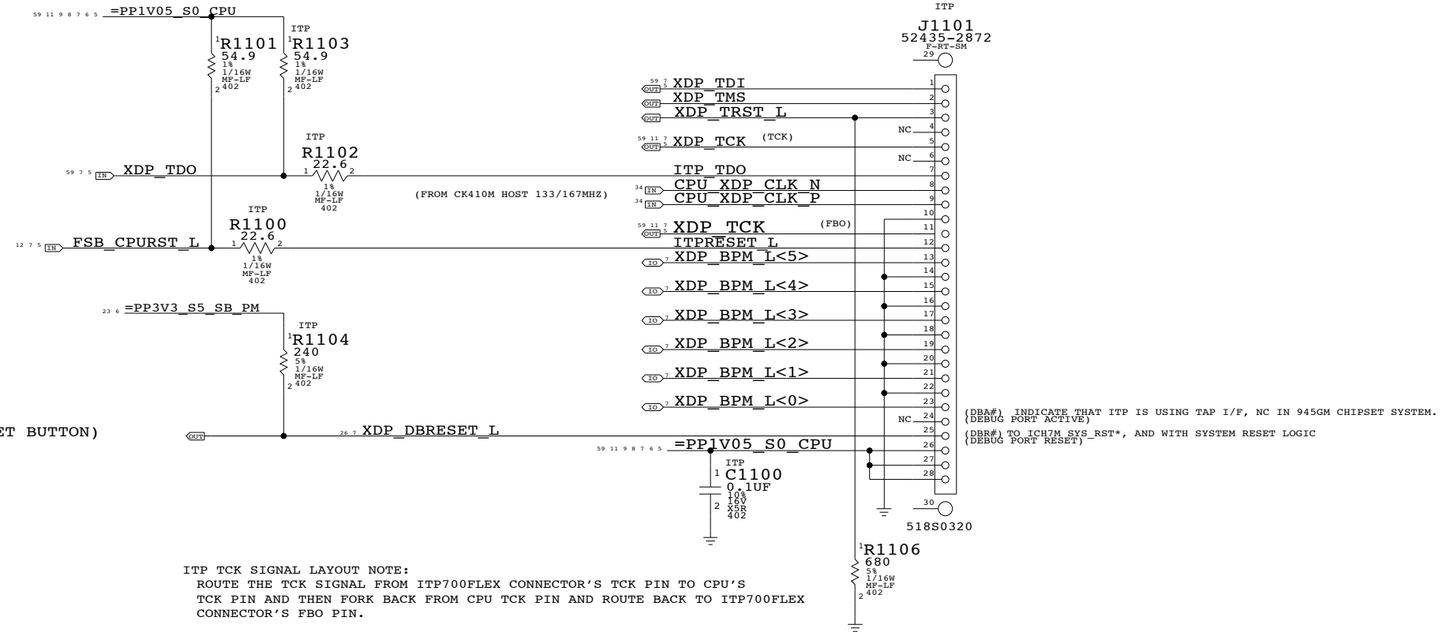
TEMPORARILY REMOVED BOMOPTION=CPU_TSENS_EXT

CPU TEMP SENSOR

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 10 OF 111	

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.

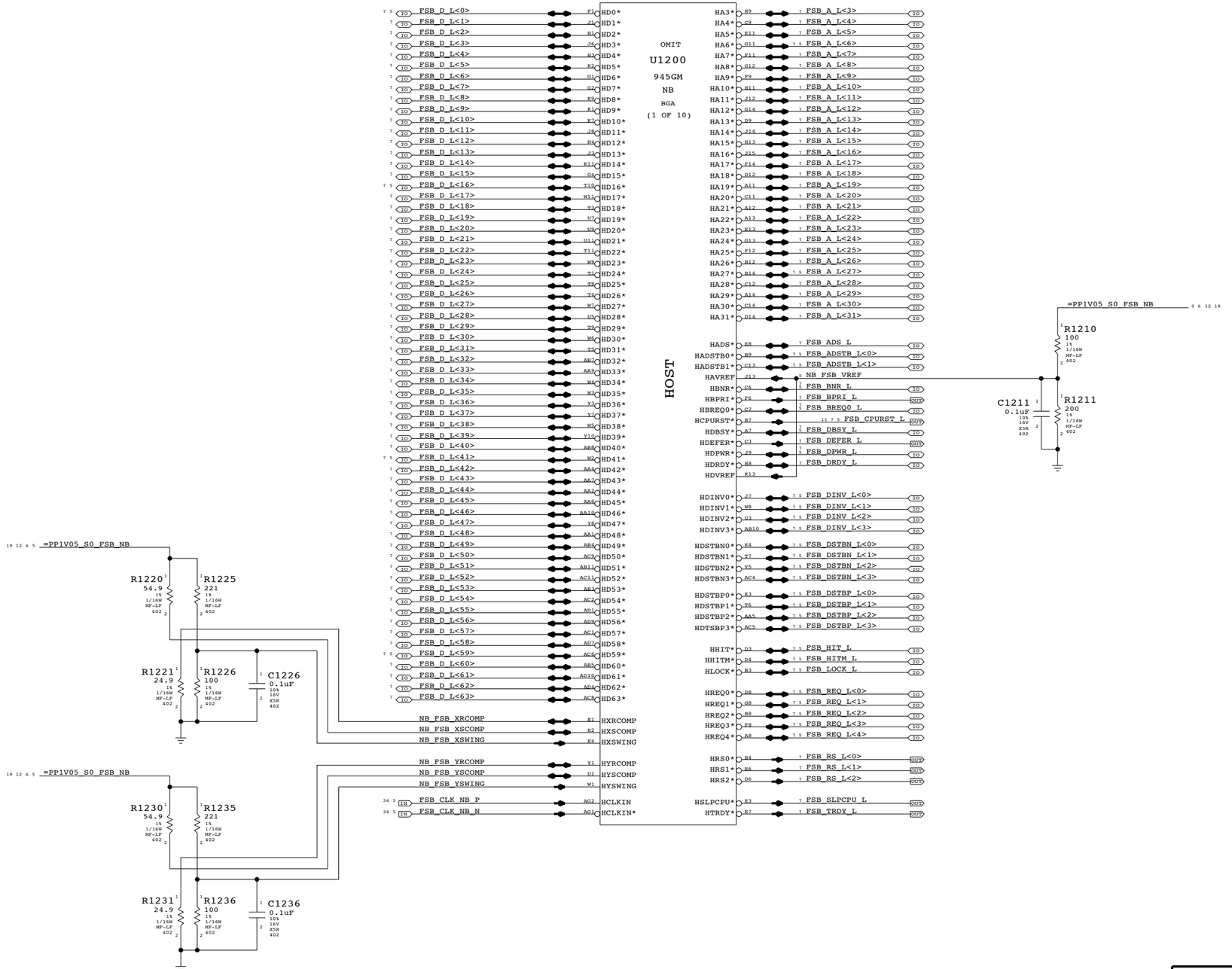
CPU ITP700FLEX DEBUG

SYNC_MASTER=MASTER SYNC_DATE=5/23/05

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09

SCALE	SHT	OF
NONE	11	111



NB CPU Interface

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

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SCALE: NONE	SHT 12 OF 111	

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

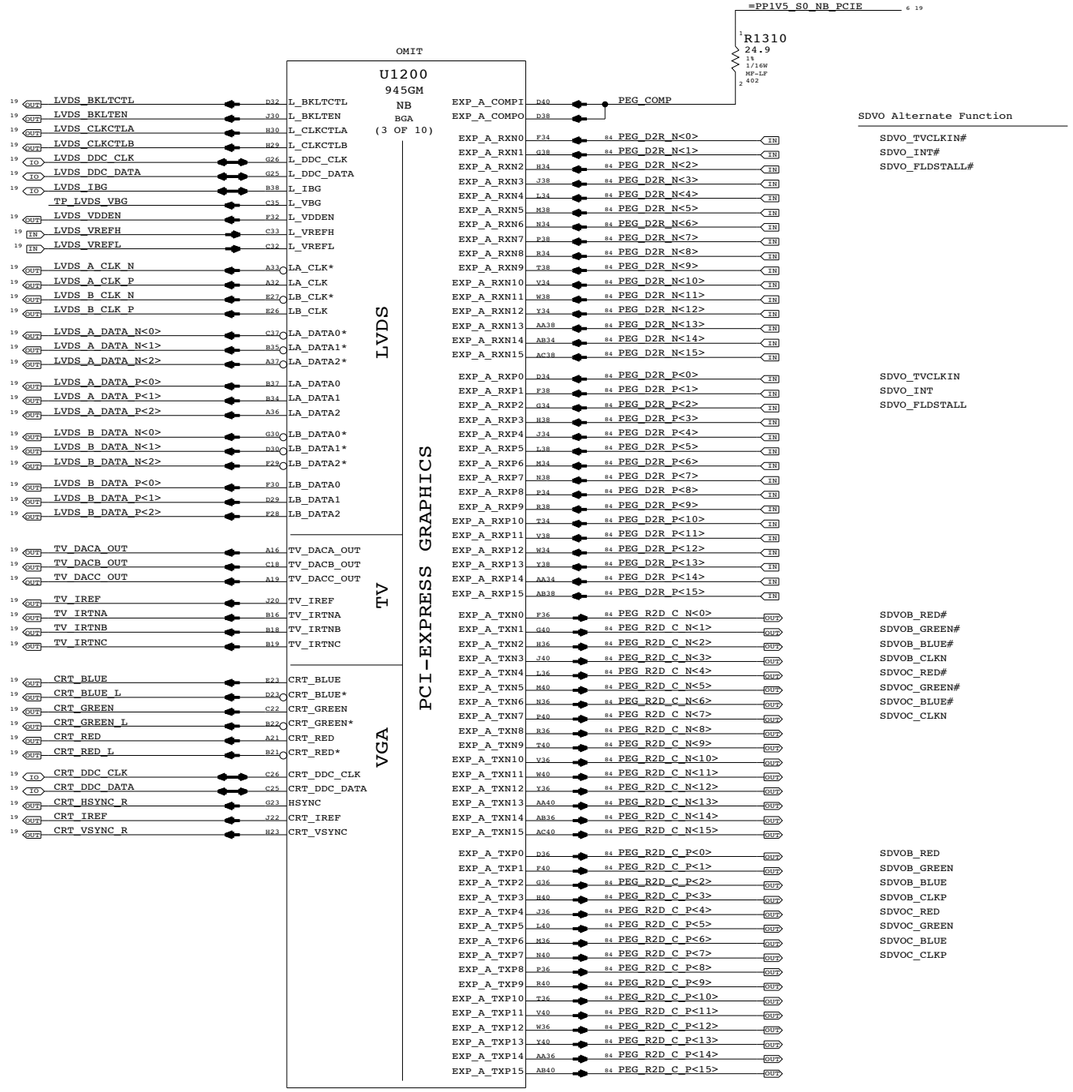
Unused DAC outputs must remain powered, but can omit filtering components. Unused DAC outputs should connect to GND through 75-ohm resistors.

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.



SDVO Alternate Function

SDVO_TVCLKIN#
SDVO_INT#
SDVO_FLDSTALL#

SDVO_TVCLKIN
SDVO_INT
SDVO_FLDSTALL

SDVOB_RED#
SDVOB_GREEN#
SDVOB_BLUE#
SDVOB_CLKN
SDVOC_RED#
SDVOC_GREEN#
SDVOC_BLUE#
SDVOC_CLKN

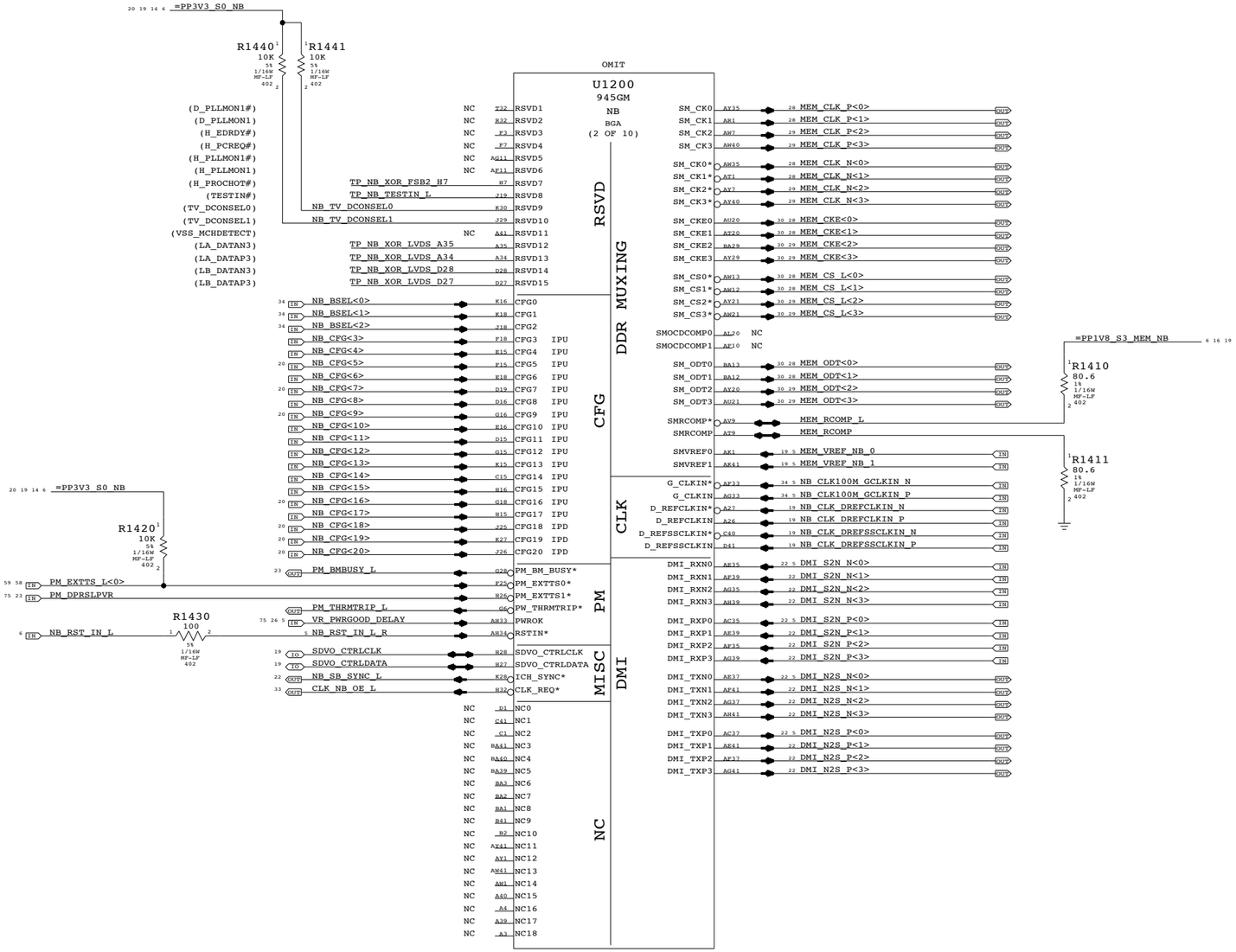
SDVOB_RED
SDVOB_GREEN
SDVOB_BLUE
SDVOB_CLKP
SDVOC_RED
SDVOC_GREEN
SDVOC_BLUE
SDVOC_CLKP

NB PEG / Video Interfaces

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 13 OF 111	



NB Misc Interfaces

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

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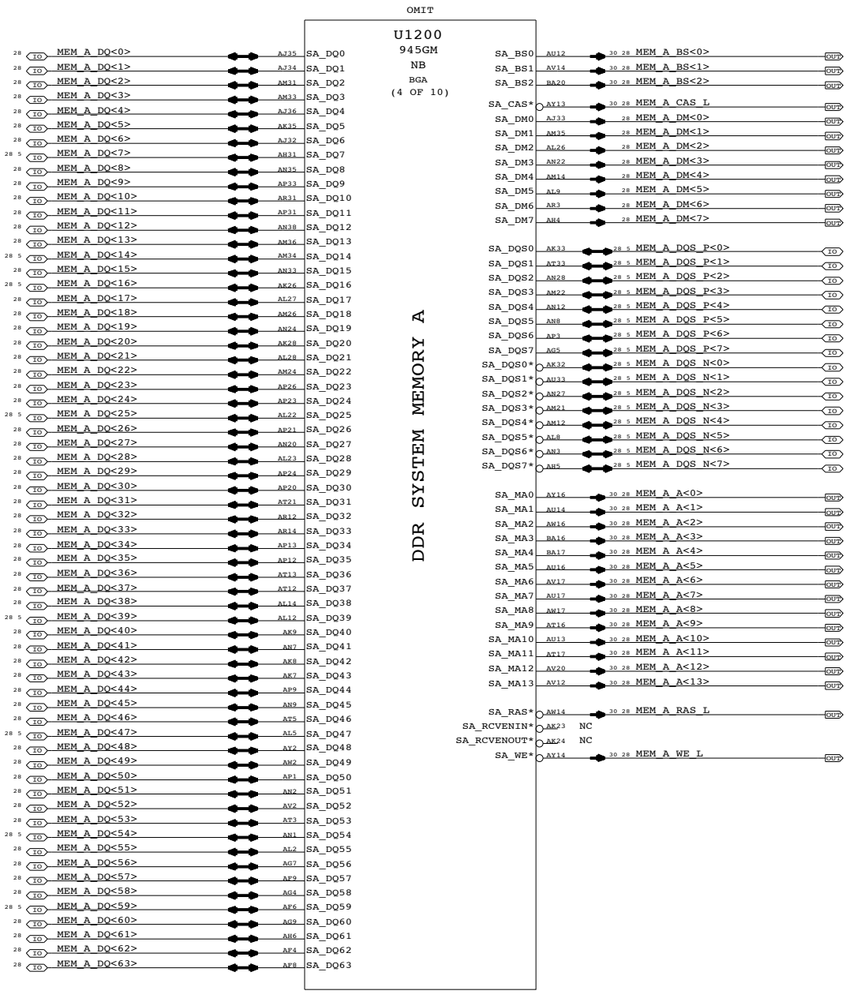
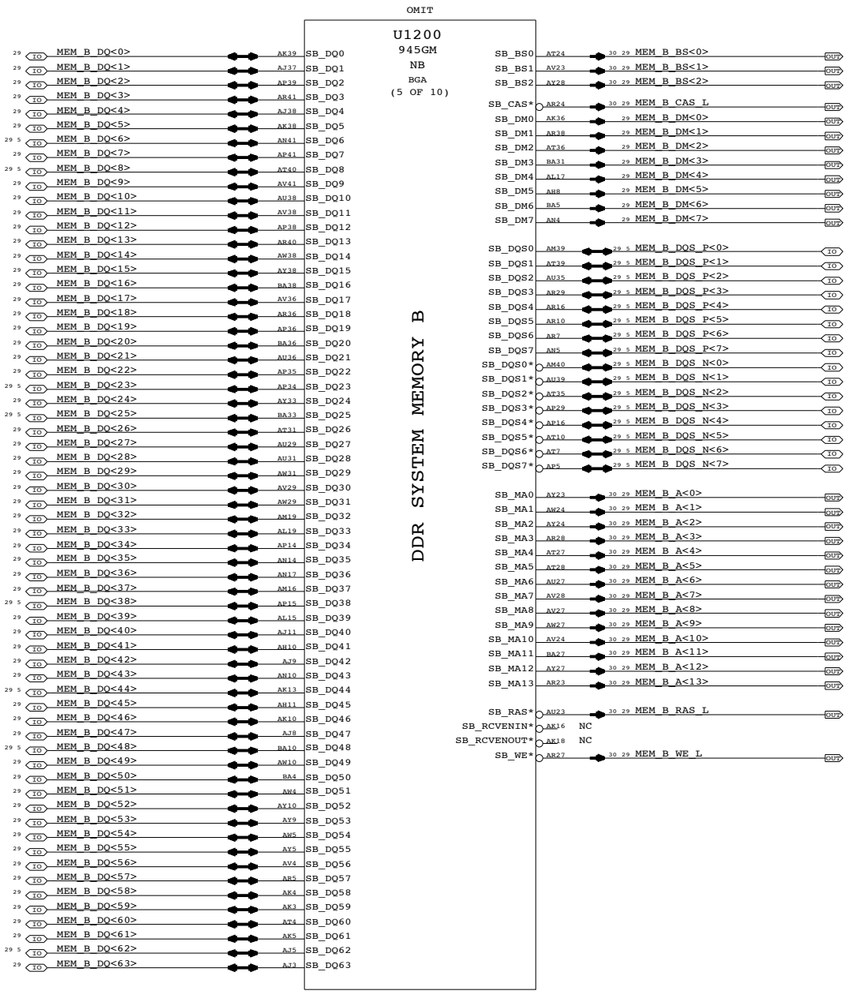
SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 14 OF 111	





NB DDR2 Interfaces

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

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D	051-6949	09

SCALE	SHT	OF
NONE	15	111

NCTF balls are Not Critical To Function

These connections can break without impacting part performance.

OMIT

19 16 6 =PPVCORE_S0_NB

U1200
945GM
NB
BGA
(7 OF 10)
NCTF

AD27	VCC_NCTF0	VSS_NCTF0	AE27
AC27	VCC_NCTF1	VSS_NCTF1	AE26
AB27	VCC_NCTF2	VSS_NCTF2	AE25
AA27	VCC_NCTF3	VSS_NCTF3	AE24
Y27	VCC_NCTF4	VSS_NCTF4	AE23
W27	VCC_NCTF5	VSS_NCTF5	AE22
V27	VCC_NCTF6	VSS_NCTF6	AE21
U27	VCC_NCTF7	VSS_NCTF7	AE20
T27	VCC_NCTF8	VSS_NCTF8	AE19
R27	VCC_NCTF9	VSS_NCTF9	AE18
AD26	VCC_NCTF10	VSS_NCTF10	AC17
AC26	VCC_NCTF11	VSS_NCTF11	Y17
AB26	VCC_NCTF12	VSS_NCTF12	U17
AA26	VCC_NCTF13		
Y26	VCC_NCTF14		
W26	VCC_NCTF15		
V26	VCC_NCTF16		
U26	VCC_NCTF17		
T26	VCC_NCTF18		
R26	VCC_NCTF19		
AD25	VCC_NCTF20		
AC25	VCC_NCTF21		
AB25	VCC_NCTF22		
AA25	VCC_NCTF23		
Y25	VCC_NCTF24		
W25	VCC_NCTF25		
V25	VCC_NCTF26		
U25	VCC_NCTF27		
T25	VCC_NCTF28		
R25	VCC_NCTF29		
AD24	VCC_NCTF30		
AC24	VCC_NCTF31		
AB24	VCC_NCTF32		
AA24	VCC_NCTF33		
Y24	VCC_NCTF34		
W24	VCC_NCTF35		
V24	VCC_NCTF36		
U24	VCC_NCTF37		
T24	VCC_NCTF38		
R24	VCC_NCTF39		
AD23	VCC_NCTF40		
V23	VCC_NCTF41		
U23	VCC_NCTF42		
T23	VCC_NCTF43		
R23	VCC_NCTF44		
AD22	VCC_NCTF45		
V22	VCC_NCTF46		
U22	VCC_NCTF47		
T22	VCC_NCTF48		
R22	VCC_NCTF49		
AD21	VCC_NCTF50		
V21	VCC_NCTF51		
U21	VCC_NCTF52		
T21	VCC_NCTF53		
R21	VCC_NCTF54		
AD20	VCC_NCTF55		
V20	VCC_NCTF56		
U20	VCC_NCTF57		
T20	VCC_NCTF58		
R20	VCC_NCTF59		
AD19	VCC_NCTF60		
V19	VCC_NCTF61		
U19	VCC_NCTF62		
T19	VCC_NCTF63		
AD18	VCC_NCTF64		
AC18	VCC_NCTF65		
AB18	VCC_NCTF66		
AA18	VCC_NCTF67		
Y18	VCC_NCTF68		
W18	VCC_NCTF69		
V18	VCC_NCTF70		
U18	VCC_NCTF71		
T18	VCC_NCTF72		

=PP1V5_S0_NB_VCCAUX 6 17 19

		VCCAUX_NCTF0	AG27
		VCCAUX_NCTF1	AF27
		VCCAUX_NCTF2	AG26
		VCCAUX_NCTF3	AF26
		VCCAUX_NCTF4	AG25
		VCCAUX_NCTF5	AF25
		VCCAUX_NCTF6	AG24
		VCCAUX_NCTF7	AF24
		VCCAUX_NCTF8	AG23
		VCCAUX_NCTF9	AF23
		VCCAUX_NCTF10	AG22
		VCCAUX_NCTF11	AF22
		VCCAUX_NCTF12	AG21
		VCCAUX_NCTF13	AF21
		VCCAUX_NCTF14	AG20
		VCCAUX_NCTF15	AF20
		VCCAUX_NCTF16	AG19
		VCCAUX_NCTF17	AF19
		VCCAUX_NCTF18	R19
		VCCAUX_NCTF19	AG18
		VCCAUX_NCTF20	AF18
		VCCAUX_NCTF21	R18
		VCCAUX_NCTF22	AG17
		VCCAUX_NCTF23	AF17
		VCCAUX_NCTF24	AE17
		VCCAUX_NCTF25	AD17
		VCCAUX_NCTF26	AB17
		VCCAUX_NCTF27	AA17
		VCCAUX_NCTF28	W17
		VCCAUX_NCTF29	V17
		VCCAUX_NCTF30	T17
		VCCAUX_NCTF31	R17
		VCCAUX_NCTF32	AG16
		VCCAUX_NCTF33	AF16
		VCCAUX_NCTF34	AE16
		VCCAUX_NCTF35	AD16
		VCCAUX_NCTF36	AC16
		VCCAUX_NCTF37	AB16
		VCCAUX_NCTF38	AA16
		VCCAUX_NCTF39	Y16
		VCCAUX_NCTF40	W16
		VCCAUX_NCTF41	V16
		VCCAUX_NCTF42	U16
		VCCAUX_NCTF43	T16
		VCCAUX_NCTF44	R16
		VCCAUX_NCTF45	AG15
		VCCAUX_NCTF46	AF15
		VCCAUX_NCTF47	AE15
		VCCAUX_NCTF48	AD15
		VCCAUX_NCTF49	AC15
		VCCAUX_NCTF50	AB15
		VCCAUX_NCTF51	AA15
		VCCAUX_NCTF52	Y15
		VCCAUX_NCTF53	W15
		VCCAUX_NCTF54	V15
		VCCAUX_NCTF55	U15
		VCCAUX_NCTF56	T15
		VCCAUX_NCTF57	R15

=PPVCORE_S0_NB 6 16 19

1.05V or 1.5V

U1200
945GM
NB
BGA
(6 OF 10)
VCC

OMIT

AA33	VCC_0	VCC_55	AC20
R33	VCC_1	VCC_56	AB20
P33	VCC_2	VCC_57	AA20
N33	VCC_3	VCC_58	Y20
L33	VCC_4	VCC_59	W20
J33	VCC_5	VCC_60	V20
AA32	VCC_6	VCC_61	U20
T32	VCC_7	VCC_62	T20
M32	VCC_8	VCC_63	R20
V32	VCC_9	VCC_64	P20
P32	VCC_10	VCC_65	N20
N32	VCC_11	VCC_66	M20
M32	VCC_12	VCC_67	L20
L32	VCC_13	VCC_68	AA23
J32	VCC_14	VCC_69	Y23
AA31	VCC_15	VCC_70	P23
W31	VCC_16	VCC_71	N23
V31	VCC_17	VCC_72	M23
T31	VCC_18	VCC_73	L23
R31	VCC_19	VCC_74	AC22
P31	VCC_20	VCC_75	AB22
N31	VCC_21	VCC_76	Y22
AA30	VCC_22	VCC_77	W22
Y30	VCC_23	VCC_78	P22
W30	VCC_24	VCC_79	N22
V30	VCC_25	VCC_80	M22
U30	VCC_26	VCC_81	L22
T30	VCC_27	VCC_82	AC21
R30	VCC_28	VCC_83	AA21
P30	VCC_29	VCC_84	Y21
N30	VCC_30	VCC_85	W21
L30	VCC_31	VCC_86	P21
AA29	VCC_32	VCC_87	N21
Y29	VCC_33	VCC_88	L21
W29	VCC_34	VCC_89	AC20
V29	VCC_35	VCC_90	AB20
U29	VCC_36	VCC_91	Y20
T29	VCC_37	VCC_92	P20
R29	VCC_38	VCC_93	N20
P29	VCC_39	VCC_94	M20
N29	VCC_40	VCC_95	L20
M29	VCC_41	VCC_96	AB19
L29	VCC_42	VCC_97	AA19
AB28	VCC_43	VCC_98	Y19
AA28	VCC_44	VCC_99	W19
Y28	VCC_45	VCC_100	V19
W28	VCC_46	VCC_101	U19
V28	VCC_47	VCC_102	T19
U28	VCC_48	VCC_103	R19
T28	VCC_49	VCC_104	P19
R28	VCC_50	VCC_105	N19
P28	VCC_51	VCC_106	M19
N28	VCC_52	VCC_107	L19
M28	VCC_53	VCC_108	AB18
L28	VCC_54	VCC_109	AA18
P27	VCC_55	VCC_110	L18
N27	VCC_56		
M27	VCC_57		
L27	VCC_58		
P26	VCC_59		
N26	VCC_60		
L26	VCC_61		
M25	VCC_62		
L25	VCC_63		
P24	VCC_64		
M24	VCC_65		
L24	VCC_66		
AB23	VCC_67		
AA23	VCC_68		
Y23	VCC_69		
P23	VCC_70		
N23	VCC_71		
M23	VCC_72		
L23	VCC_73		
AC22	VCC_74		
AB22	VCC_75		
Y22	VCC_76		
W22	VCC_77		
P22	VCC_78		
N22	VCC_79		
M22	VCC_80		
L22	VCC_81		
AC21	VCC_82		
AA21	VCC_83		
Y21	VCC_84		
W21	VCC_85		
P21	VCC_86		
N21	VCC_87		
L21	VCC_88		
AC20	VCC_89		
AB20	VCC_90		
Y20	VCC_91		
P20	VCC_92		
N20	VCC_93		
M20	VCC_94		
L20	VCC_95		
AB19	VCC_96		
AA19	VCC_97		
Y19	VCC_98		
W19	VCC_99		
V19	VCC_100		
U19	VCC_101		
T19	VCC_102		
R19	VCC_103		
P19	VCC_104		
N19	VCC_105		
M19	VCC_106		
L19	VCC_107		
AB18	VCC_108		
AA18	VCC_109		
L18	VCC_110		

AU41	VCC_SM0	VCC_SM50	AJ22
AT41	VCC_SM1	VCC_SM51	AH22
AM41	VCC_SM2	VCC_SM52	AF22
AU40	VCC_SM3	VCC_SM53	AJ22
AR34	VCC_SM4	VCC_SM54	AH22
AT34	VCC_SM5	VCC_SM55	AF22
AM34	VCC_SM6	VCC_SM56	AK20
AV34	VCC_SM7	VCC_SM57	AJ20
AU34	VCC_SM8	VCC_SM58	AH20
AT34	VCC_SM9	VCC_SM59	AF20
AR34	VCC_SM10	VCC_SM60	AE20
BA30	VCC_SM11	VCC_SM61	AK19
AV30	VCC_SM12	VCC_SM62	AJ19
AM30	VCC_SM13	VCC_SM63	AH19
AV30	VCC_SM14	VCC_SM64	AF19
AU30	VCC_SM15	VCC_SM65	AE19
AT30	VCC_SM16	VCC_SM66	AK18
AR30	VCC_SM17	VCC_SM67	AJ18
AP30	VCC_SM18	VCC_SM68	AH18
AN30	VCC_SM19	VCC_SM69	AF18
AM30	VCC_SM20	VCC_SM70	AE18
AM29	VCC_SM21	VCC_SM71	AK17
AL29	VCC_SM22	VCC_SM72	AJ17
AJ29	VCC_SM23	VCC_SM73	AH17
AK29	VCC_SM24	VCC_SM74	AF17
AJ29	VCC_SM25	VCC_SM75	AE17
AH28	VCC_SM26	VCC_SM76	AK16
AJ28	VCC_SM27	VCC_SM77	AJ16
AH28	VCC_SM28	VCC_SM78	AH16
AE27	VCC_SM29	VCC_SM79	AF16
AD27	VCC_SM30	VCC_SM80	AE16
BA26	VCC_SM31	VCC_SM81	AK15
AY26	VCC_SM32	VCC_SM82	AJ15
AW26	VCC_SM33	VCC_SM83	AH15
AU26	VCC_SM34	VCC_SM84	AF15
AT26	VCC_SM35	VCC_SM85	AE15
AR26	VCC_SM36	VCC_SM86	AK14
AJ26	VCC_SM37	VCC_SM87	AJ14
AH26	VCC_SM38	VCC_SM88	AH14
AJ25	VCC_SM39	VCC_SM89	AF14
AH25	VCC_SM40	VCC_SM90	AE14
AJ24	VCC_SM41	VCC_SM91	AK13
AH24	VCC_SM42	VCC_SM92	AJ13
BA23	VCC_SM43	VCC_SM93	AH13
AJ23	VCC_SM44	VCC_SM94	AF13
BA22	VCC_SM45	VCC_SM95	AE13
AY22	VCC_SM46	VCC_SM96	AK12
AW22	VCC_SM47	VCC_SM97	AJ12
AV22	VCC_SM48	VCC_SM98	AH12
AT22	VCC_SM49	VCC_SM99	AF12
AR22	VCC_SM100		
AJ22	VCC_SM101		
AK21	VCC_SM102		
AH21	VCC_SM103		
AF21	VCC_SM104		
AE21	VCC_SM105		
AK20	VCC_SM106		
AJ20	VCC_SM107		

NB_VCCSM_LF4

NB_VCCSM_LF5

C1614 0.47uF 20% 6.3V CERM-X5R 402

C1613 0.47uF 20% 6.3V CERM-X5R 402

C1615 0.47uF 20% 6.3V CERM-X5R 402

Layout Note:
Place near pin BA23

19 14 6 =PP1V8_S3_MEM_NB

C1620 10uF 20% 6.3V X5R 603

C1621 10uF 20% 6.3V X5R 603

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

C1610 0.47uF 20% 6.3V CERM-X5R 402

Layout Note:
Place near pin BA15

NB_VCCSM_LF2

NB_VCCSM_LF1

C1612 0.47uF 20% 6.3V CERM-X5R 402

C1611 0.47uF 20% 6.3V CERM-X5R 402

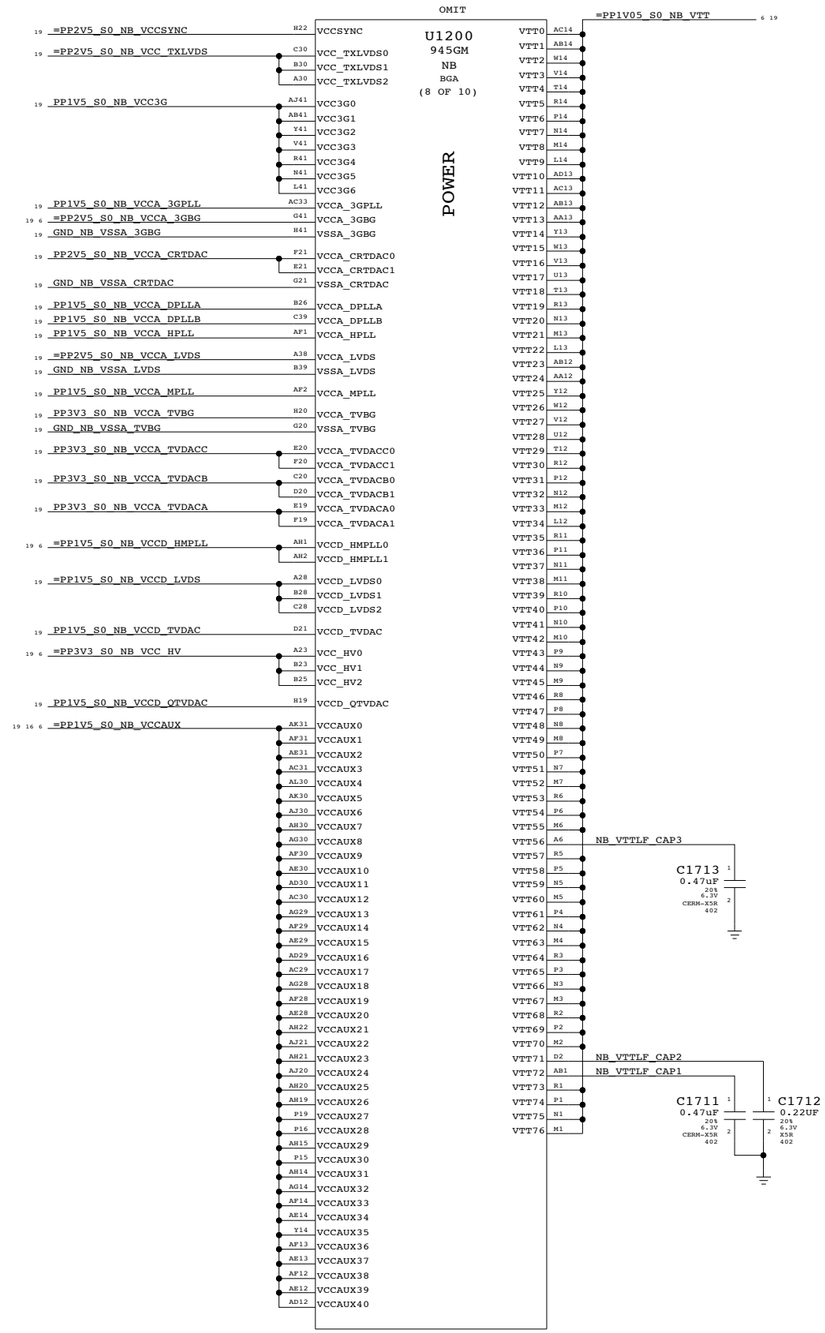
NB Power 1

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09

SCALE	SHT	OF
NONE	16	111



NB Power 2

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

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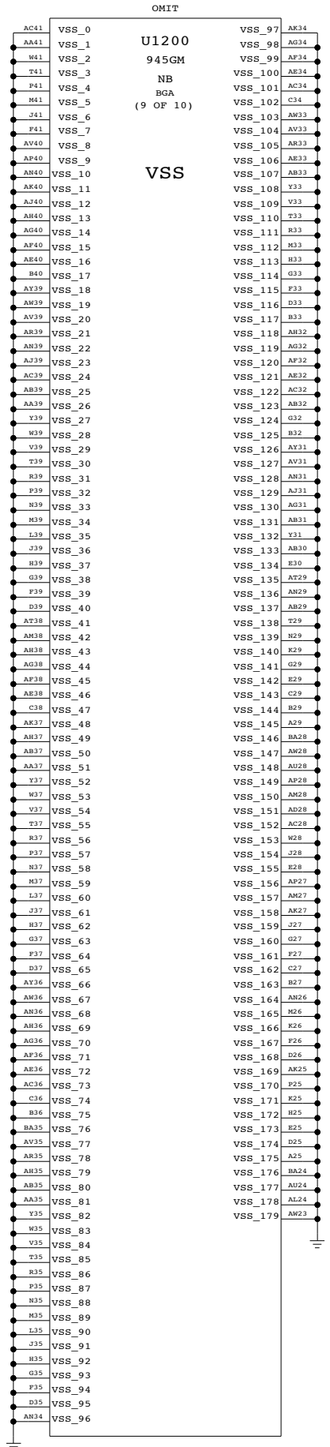

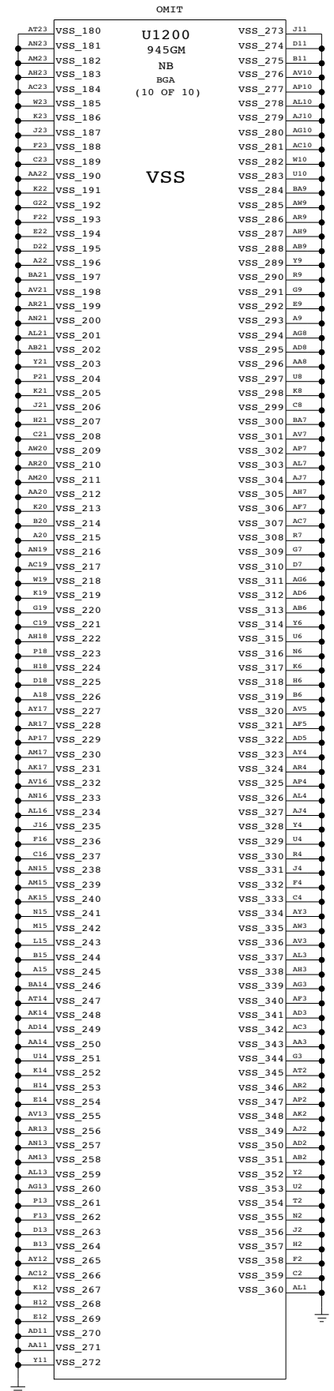

NB Grounds

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NONE	18	111

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

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

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

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 — BIA — 14
NB_CLK_DREFCLKIN_P — OUTP — 14
NB_CLK_DREFSSCLKIN_P — OUTP — 14
NB_CLK_DREFSSCLKIN_N — OUTP — 14

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	
TV_DACA_OUT	13	IN
TV_DACB_OUT	13	IN
TV_DACC_OUT	13	IN
TV_IREF	13	IN
TV_IRTNA	13	IN
TV_IRTNB	13	IN
TV_IRTNC	13	IN

GND_NB_VSSA_TVBG 17

CRITICAL
C1921
22000pF-1000mA
16V
NPM10

6 19 =PP1V5_S0_NB_TVDAC — PP1V5_S0_NB_VCCD_TVDAC 17
PP1V5_S0_NB_VCCD_QTVDAC 17

C1920 0.1uF 20% 10V CERM 402

Layout Note:
THESE 2 CAPS SHOULD BE
within 6.35 mm of NB edge

14 SDVO_CTRLCLK (IN) — TP_SDVO_CTRLCLK
14 SDVO_CTRLDATA (IN) — TP_SDVO_CTRLDATA

L1934
FERR-120-OHM-0.2A
0603

19 6 =PP1V5_S0_NB_PLL — 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

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

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

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
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
MEM_VREF_NB_1 5 14
R1983 1K 5% 1/16W MF-LF 402
C1982 0.1UF 20% 16V CERM 603

R1980 1K 5% 1/16W MF-LF 402
MEM_VREF_NB_0 5 14
R1981 1K 5% 1/16W MF-LF 402
C1981 0.1UF 20% 16V CERM 603

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 X5R 603
C1903 10uF 20% 6.3V X5R 603
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 17 6 =PP3V3_S0_NB_VCC_HV

C1914 10uF 20% 6.3V X5R 603
C1915 0.1uF 20% 10V CERM 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

PP1V5_S0_NB_VCC3G 17
VOLTAGE=1.5V
MIN_LINE_WIDTH=1.0 mm
MIN_NECK_WIDTH=0.2 MM

C1971 10uF 20% 6.3V X5R 603
C1972 10uF 20% 6.3V X5R 603

Layout Note:
10uF caps should
be close to MCH
on opposite side.

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

1uH, 20%

L1975
1.0UH-220MA-0.12-OHM
0805

19 6 =PP1V5_S0_NB_3GPLL — PP1V5_S0_NB_3GPLL_F
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

PP1V5_S0_NB_VCCA_3GPLL 17
VOLTAGE=1.5V
MIN_LINE_WIDTH=1.0 mm
MIN_NECK_WIDTH=0.2 MM

C1975 10uF 20% 6.3V X5R 603
C1976 0.1uF 20% 10V CERM 402

Layout Note:
3GPLL 10uF cap should
be placed in cavity

GND_NB_VSSA_3GBG 17

Layout Note: Route to caps, then GND

NB (GM) Decoupling

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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

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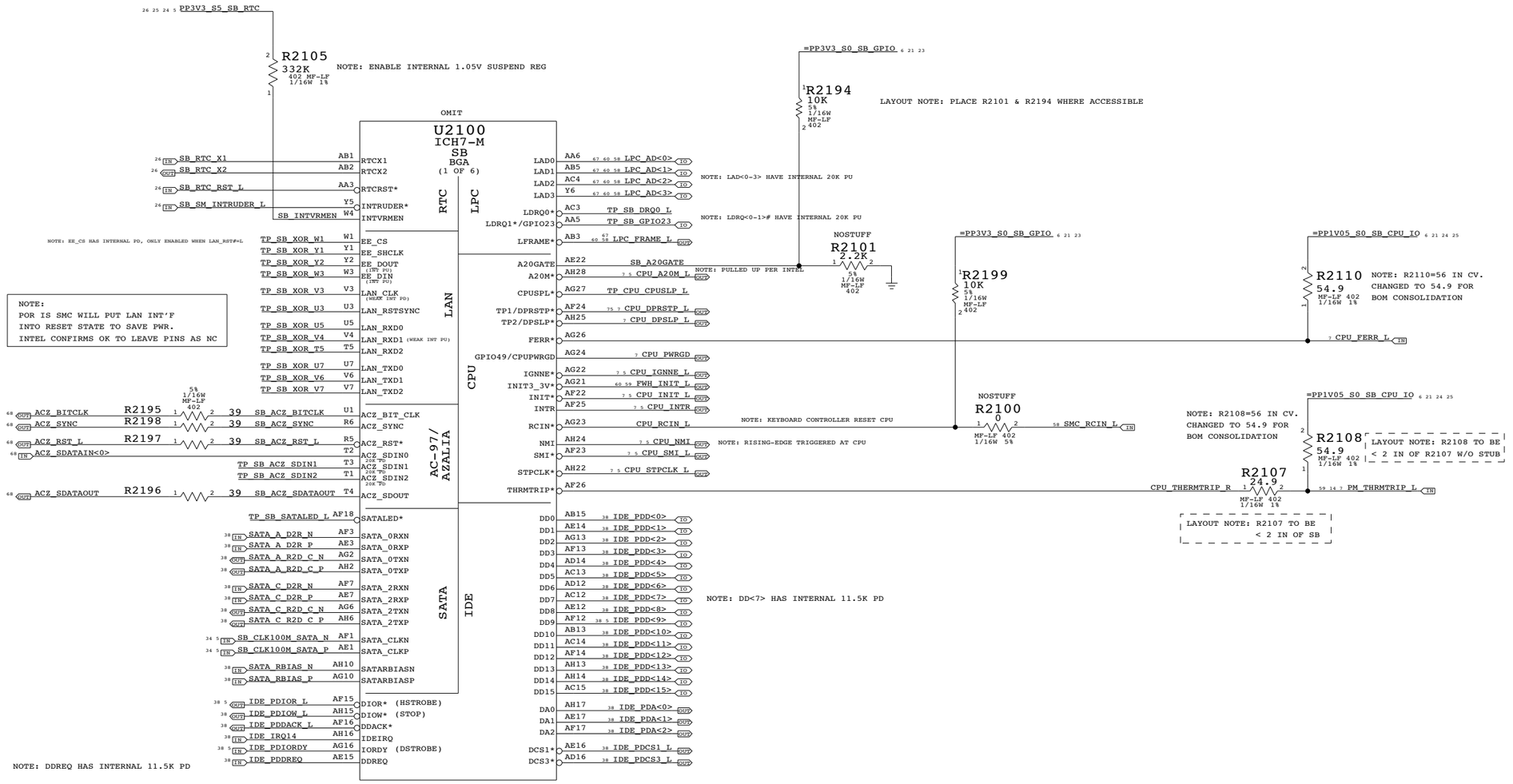

	AC '07	INTEL HIGH DEFINITION AUDIO
ACZ_BIT_CLK	INTERNAL 20K PD ENABLED WHEN - LSO BIT IN AC'97 GLOBAL CONTROL REG = 1; OR - BOTH FUNCTION 2 & 3 OF DEVICE 30 ARE DISABLED	INTERNAL 20K PD ONLY ENABLED IN S3COLD
ACZ_RST#		NONE
ACZ_SDIN[0-2]	INTERNAL 20K PD	INTERNAL 20K PD
ACZ_SDOUT	INTERNAL 20K PD ENABLED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

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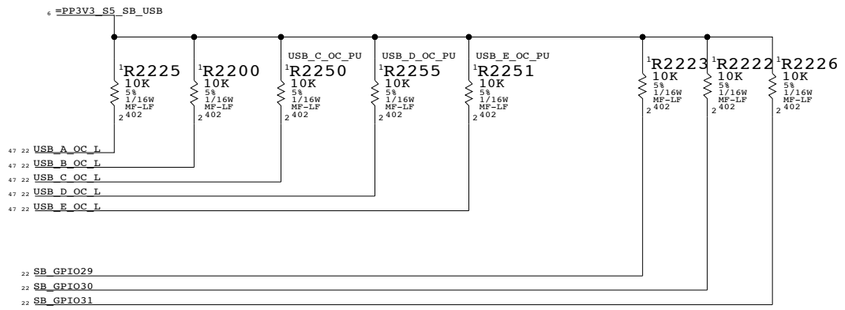

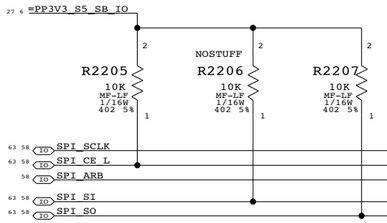

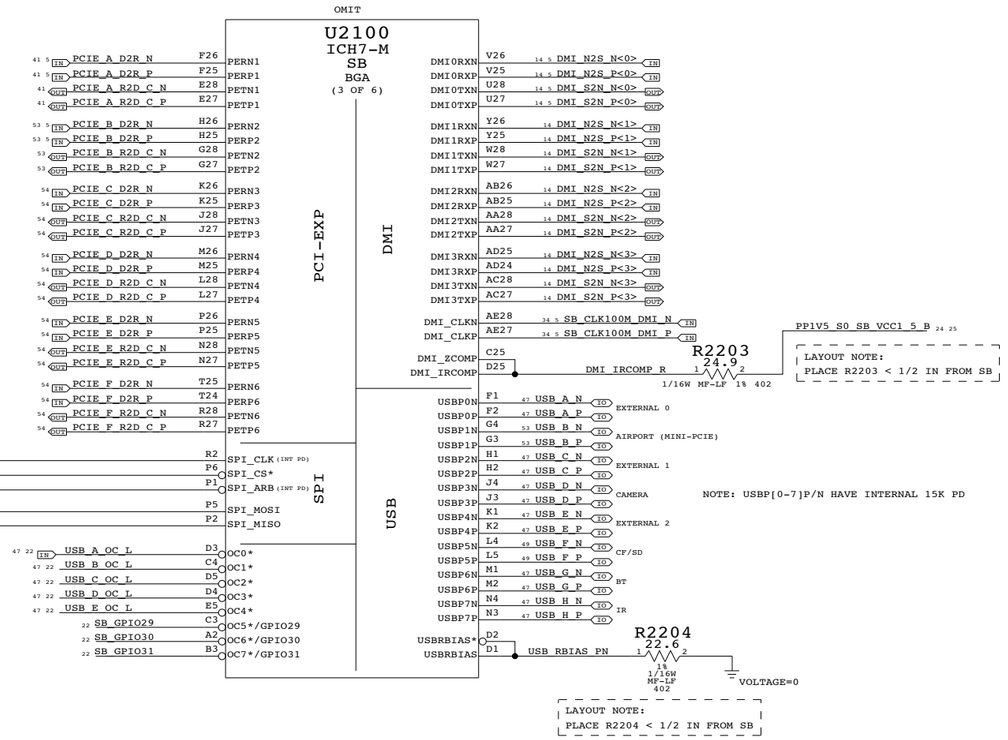

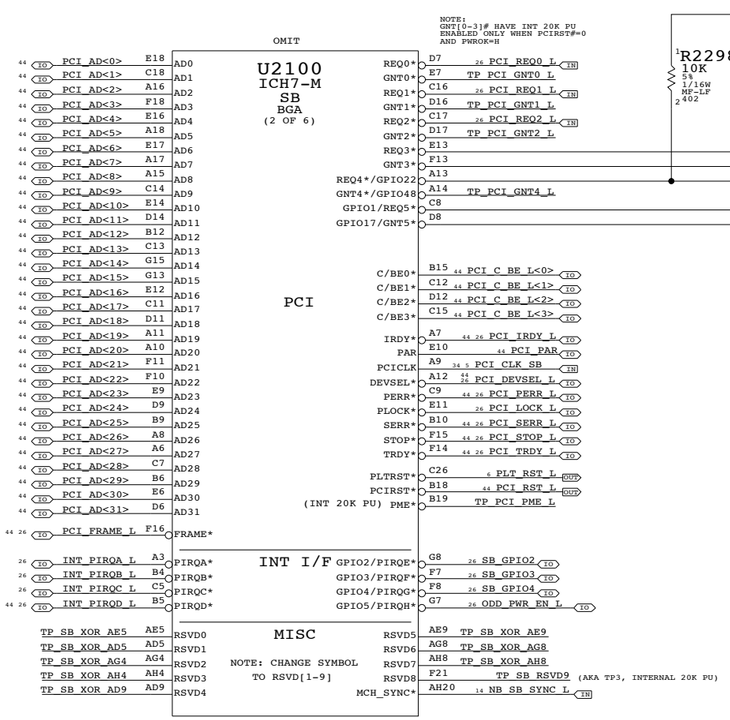

SB BOOT BIOS SELECT

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

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

NOTE: R2210 WAS PD ON PIN A14 = FWH_TBL_L

SB: 2 OF 4

SYNC_MASTER=N/A SYNC_DATE=N/A

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NOTE FOR R2323 (DEF=NOSTUFF)
STRAPPING 8 PWROK RISING:
SB WILL DISABLE TCO TIMER
SYSTEM REBOOT FEATURE

=PP3V3_S0_SB_GPIO 6 21 23

=PP3V3_S5_SB 6 23 25 26

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%
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

OMIT

U2100
ICH7-M
SB
BGA
(4 OF 6)

SMB

27 IO SMB_CLK	C22	SMBCLK
27 IO SMB_DATA	B22	SMBDATA
SMB_LINK_ALERT_L	A26	LINKALERT*
SMLINK<0>	B25	SMLINK0
NOT USED SMLINK<1>	A25	SMLINK1
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 IO PM_CLKRUN_L	AG18	GPIO32/CLKRUN*
RESERVED FOR MOBILE AZALIA DOCKING INT'F TP_AZ_DOCK_EN_L	AC19	GPIO33/AZ_DOCK_EN*
TP_AZ_DOCK_RST_L	U2	GPIO34/AZ_DOCK_RST*
53 41 IN PCIE_WAKE_L	F20	WAKE*
67 60 58 IO INT_SERIRQ	AH21	SERIRQ
58 10 IN PM_THRM_L	AF20	THRM*
26 IN VR_PWRGD_CK410	AD22	VRMPWRGD
IO TP_SB_GPIO6	AC21	GPIO6
	AC18	GPIO7
58 IN SMC_RUNTIME_SCI_L	E21	GPIO8
58 IN SMC_EXTSMI_L		

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

CLKS

CLK14	AC1	34 5 SB_CLK14P3M_TIMER IN
CLK48	B2	34 5 SB_CLK48M_USBCTLR IN
SUSCLK	C20	58 SUS_CLK_SB OUT

SYS GPIO / PWR MNGT

SLP_S3*	B24	79 77 80 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 NOTE: SMC WILL DRIVE 0-1-0 TO KEEP LAN INT'F IN RESET STATE TO SAVE PWR
RSMRST*	Y4	

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	23 SB_CLK100M_SATA_OE_L OUT
GPIO38	AD20	TP_SB_GPIO38 IO
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
58 PM_RSMRST_L IN
58 SMC_WAKE_SCI_L IN

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

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

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

FWH_MFG_MODE 23
BIOS_REC 23

=PP3V3_S5_SB 6 23 25 26

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

23 PATA_PWR_EN_L

=PP3V3_S0_SB_GPIO 6 21 23

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

23 SATA_C_PWR_EN_L

SB: 3 OF 4

SYNC_MASTER=N/A SYNC_DATE=N/A

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D	051-6949	09
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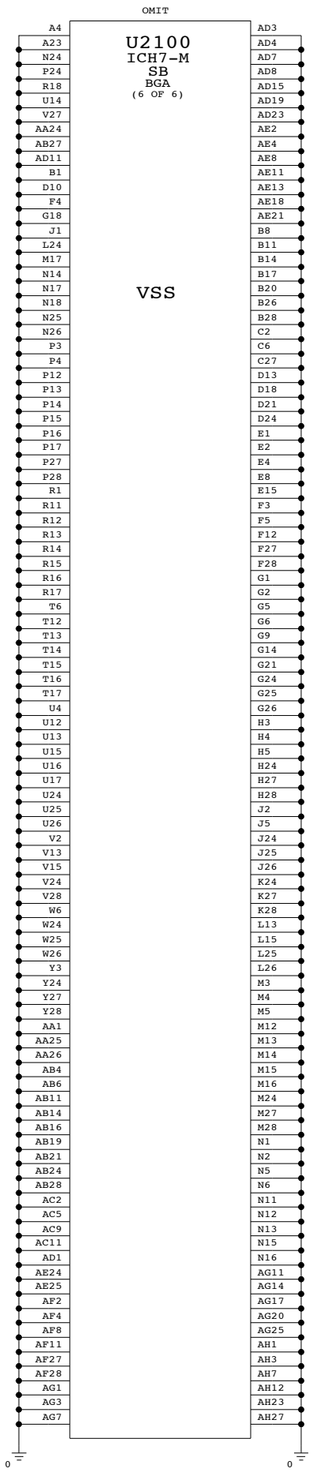
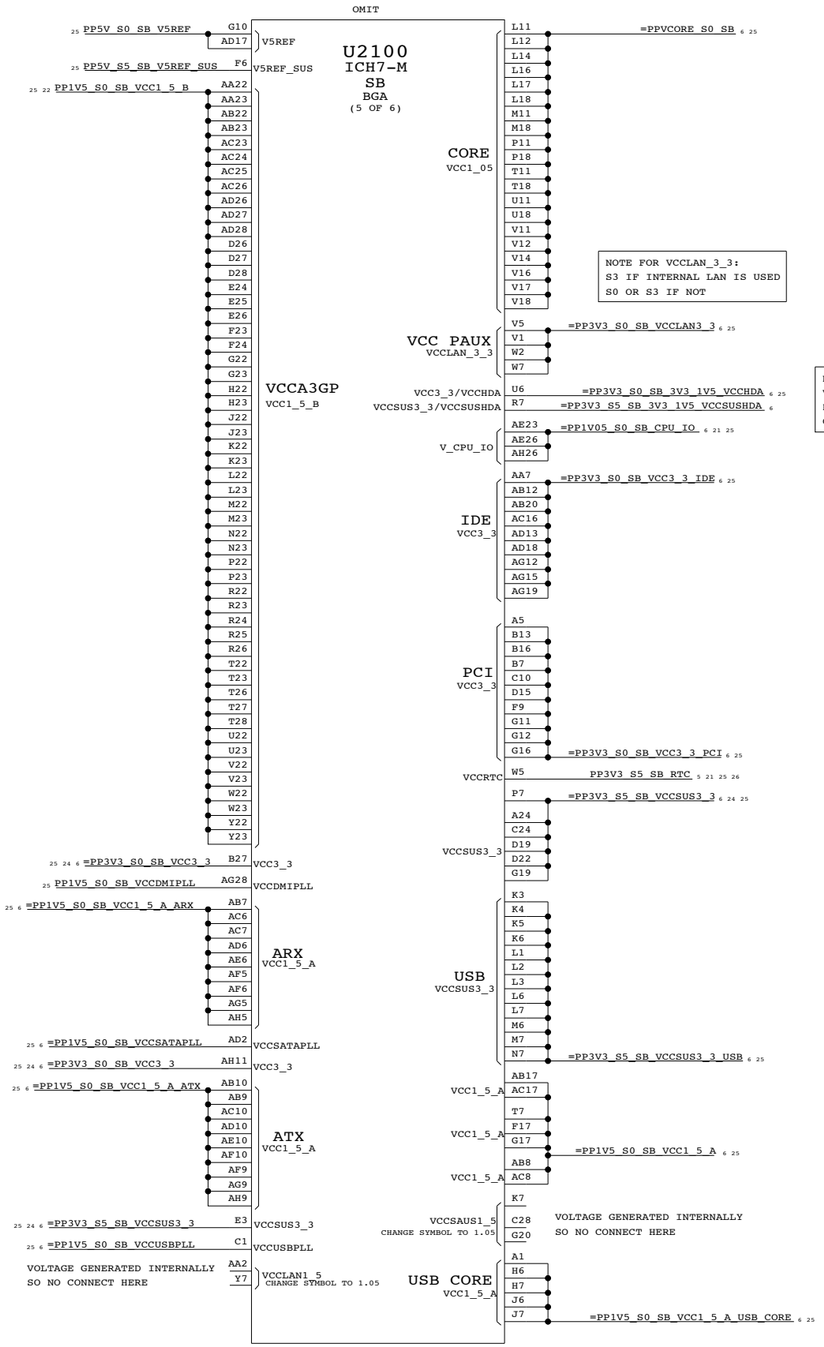




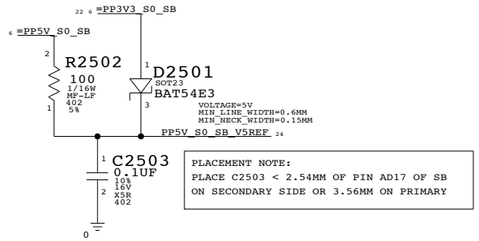
SB: 4 OF 4

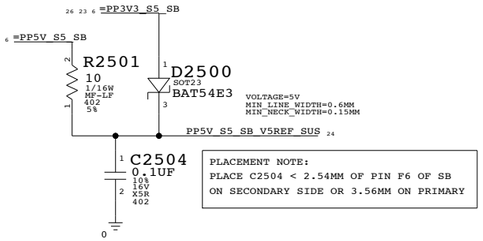
SYNC_MASTER=N/A SYNC_DATE=N/A

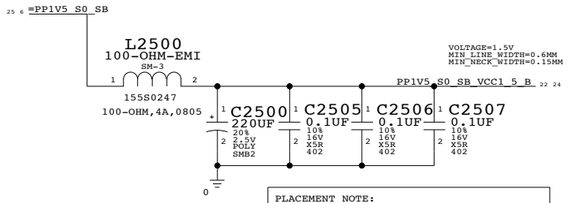
APPLE COMPUTER INC.

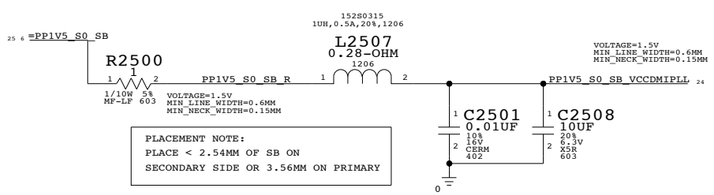
SIZE	DRAWING NUMBER	REV.
D	051-6949	09

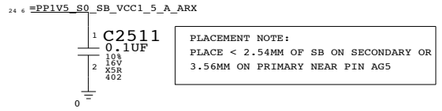
SCALE: NONE SHT 24 OF 111

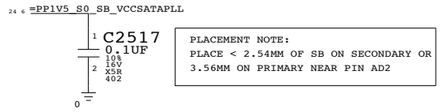


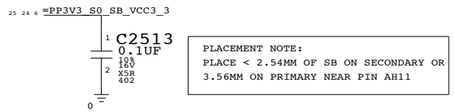


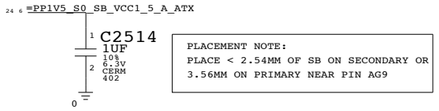


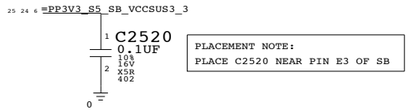


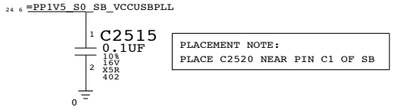


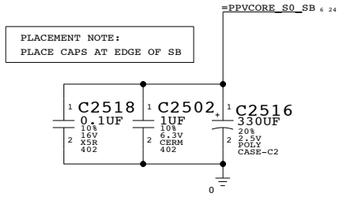


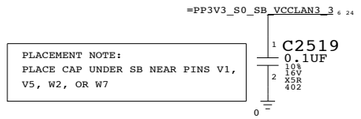


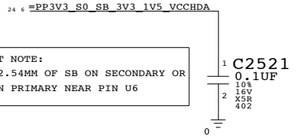


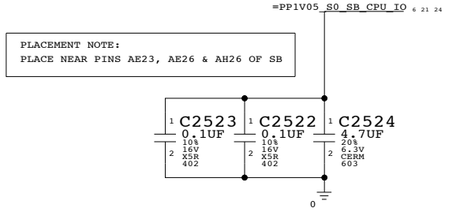


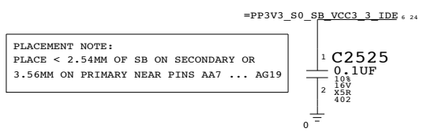


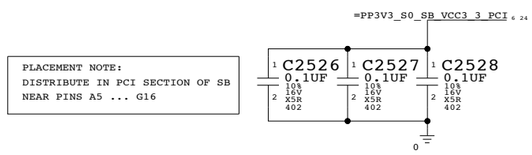


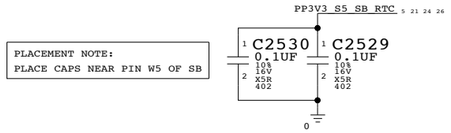


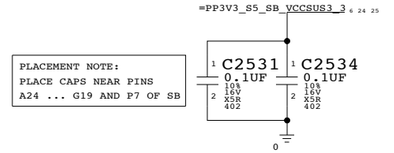


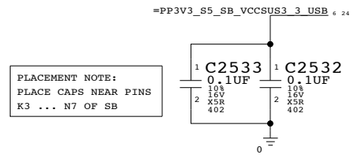


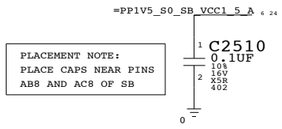


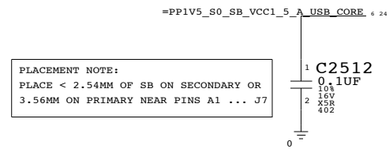












SB:DECOUPLING

SYNC_MASTER=N/A SYNC_DATE=N/A

APPLE COMPUTER INC.

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D	051-6949	09

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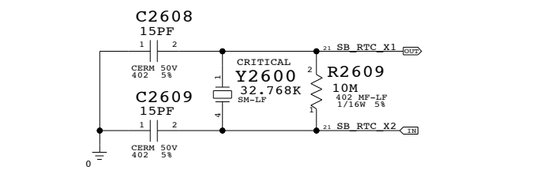
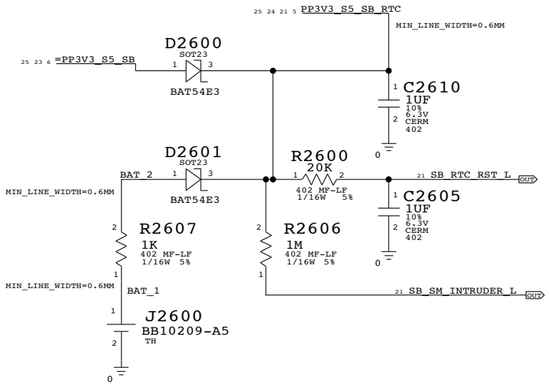
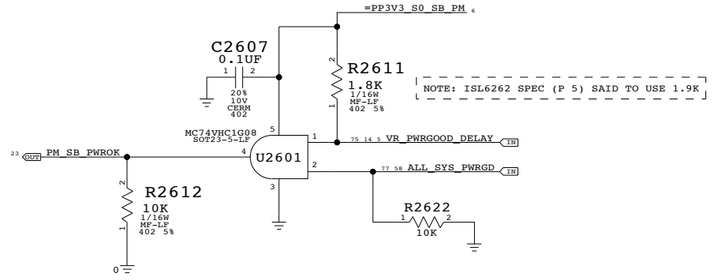
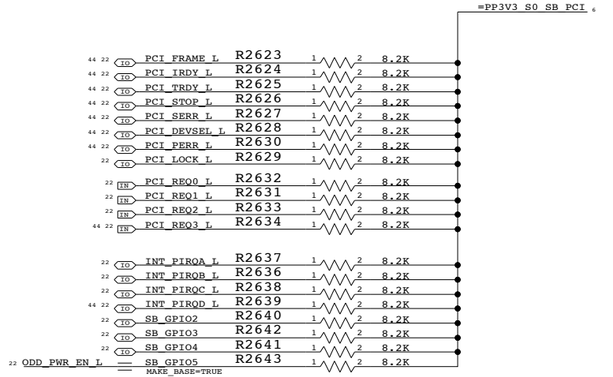
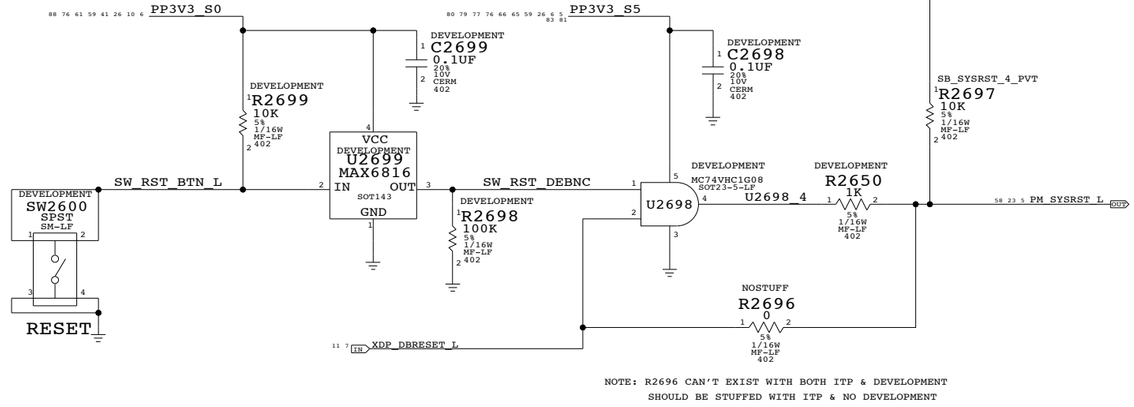
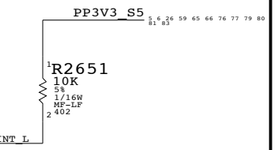




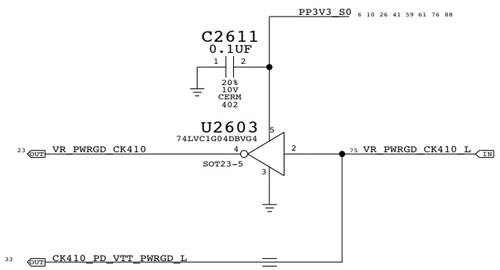








NOTE: R2696 CAN'T EXIST WITH BOTH ITP & DEVELOPMENT
SHOULD BE STUFFED WITH ITP & NO DEVELOPMENT



SB: MISC

SYNC_MASTER=N/A SYNC_DATE=N/A

APPLE COMPUTER INC.

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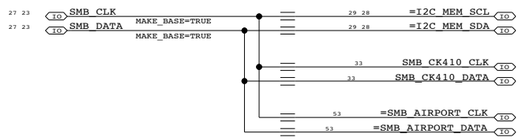
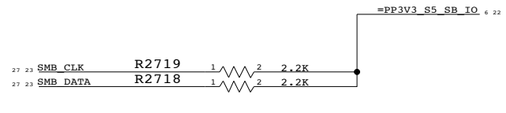
SB I2C BUSSES





SB: SMB HUB

SYNC_MASTER=N/A SYNC_DATE=N/A

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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

=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)

MEM_VREF (29 28 5)

C2850 2.2UF 20% 6.3V CERM1 603

C2800 0.1uF 20% 10V CERM 402

=PP1V8_S3_MEM (29 28 6 5)

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

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

516S0403

ALL NC'S

=PPSPD_S0_MEM (29 6)

C2851 2.2UF 20% 6.3V CERM1 603

C2852 0.1uF 20% 10V CERM 402

=PP1V8_S3_MEM (5 6 28 29)

DDR2 Bypass Caps

(For return current)

=PP1V8_S3_MEM (29 28 6 5)

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

DDR2 SO-DIMM Connector A

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 28 OF 111	

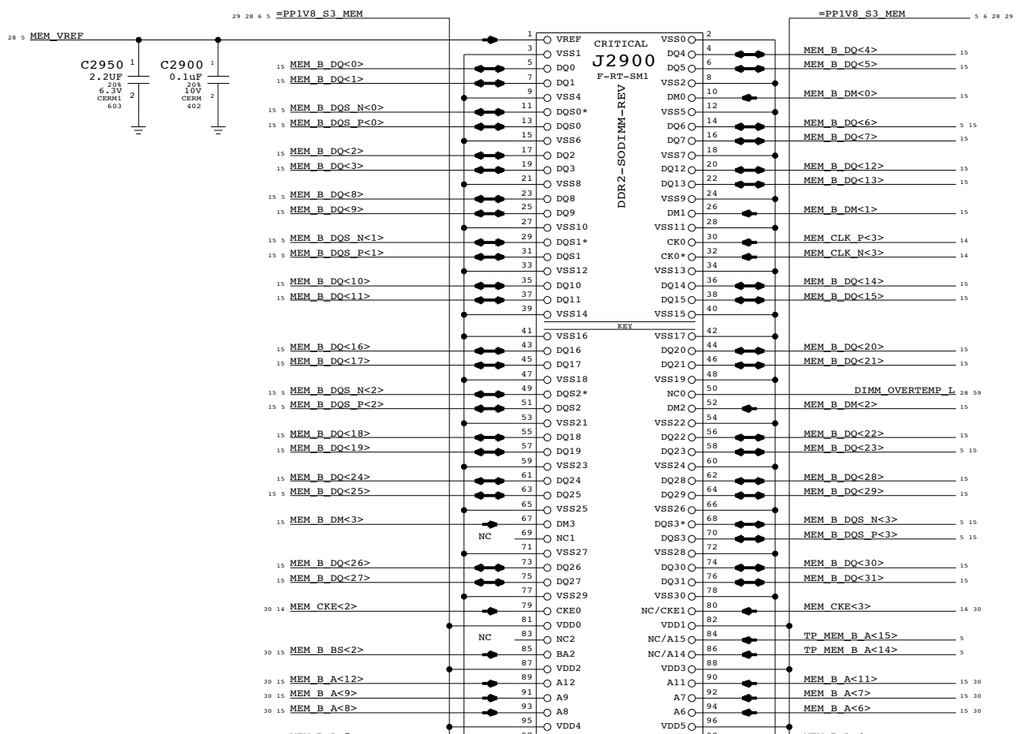
Page Notes

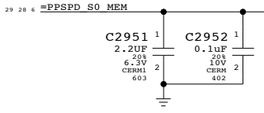
Power aliases required by this page:
- =PP1V8_S3_MEM
- =PPSPD_S0_MEM (2.5V - 3.3V)

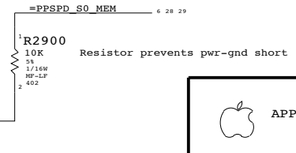
Signal aliases required by this page:
- =I2C_MEM_SCL
- =I2C_MEM_SDA

BOM options provided by this page:
(NONE)

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



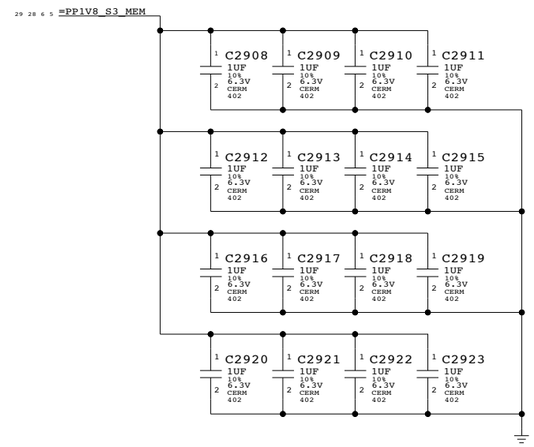




Resistor prevents pwr-gnd short

DDR2 Bypass Caps

(For return current)



DDR2 SO-DIMM Connector B

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

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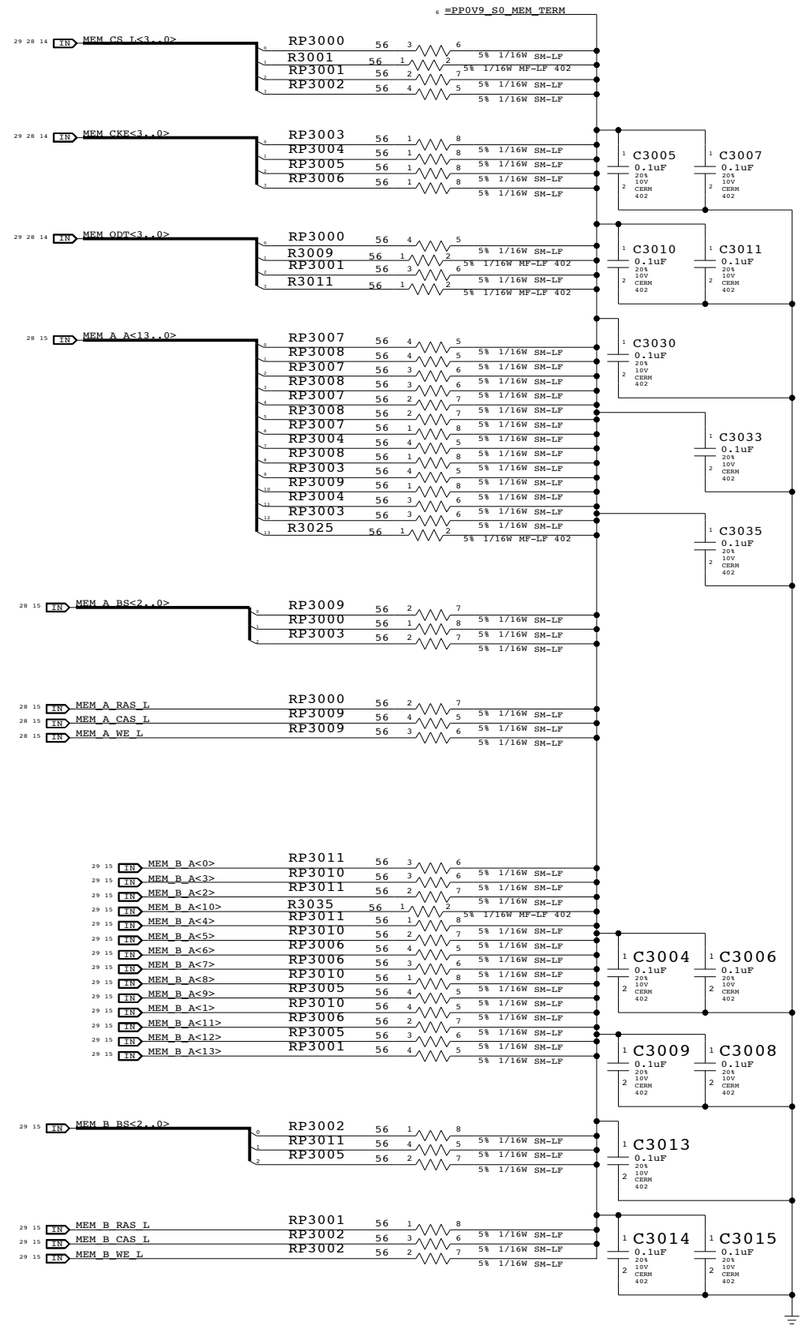
D	051-6949	09
SCALE: NONE	SHT 29 OF 111	

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	051-6949	09

SCALE	SHT	OF
NONE	30	111

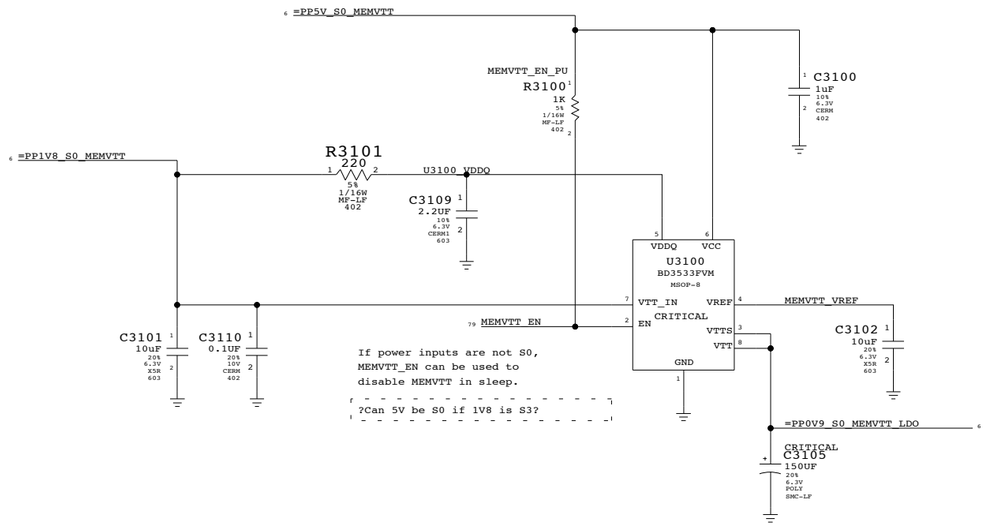
Page Notes

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

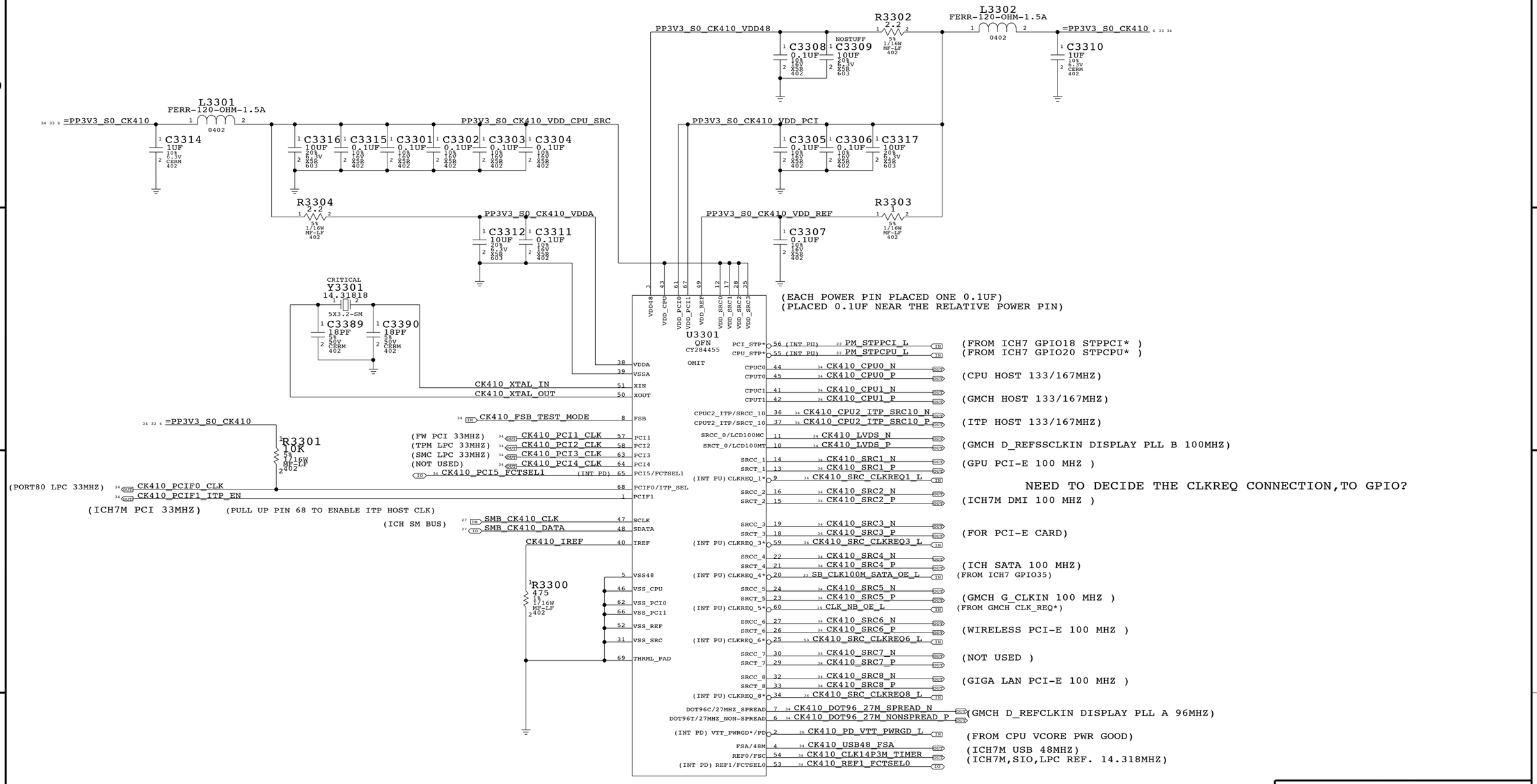


Memory Vtt Supply

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 31 OF 111	



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	051-6949	09

SCALE	SHT	OF
NONE	33	111

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

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

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

33 CK410_REF1_FCTSEL0 R3496 33 TP_CLK14P3M_SPARE OUT

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

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

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

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

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

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

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

1% 402 1/16W MF-LF

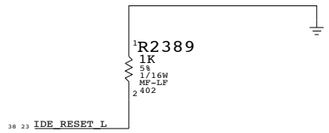
34 12 5 FSB_CLK_NB_P R3429 49.9
34 12 5 FSB_CLK_NB_N R3430 49.9
34 7 5 FSB_CLK_CPU_P R3431 49.9
34 7 5 FSB_CLK_CPU_N R3432 49.9
34 FSB_CLK_XDP_P R3433 49.9
34 FSB_CLK_XDP_N R3434 49.9
53 34 AIRPORT_CLK100M_PCIE_P R3435 49.9
53 34 AIRPORT_CLK100M_PCIE_N R3436 49.9
34 14 5 NB_CLK100M_GCLKIN_P R3438 49.9
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

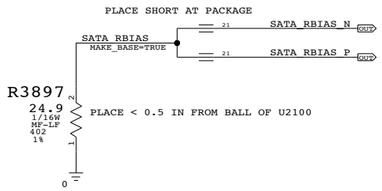
CLOCKS: TERMINATIONS

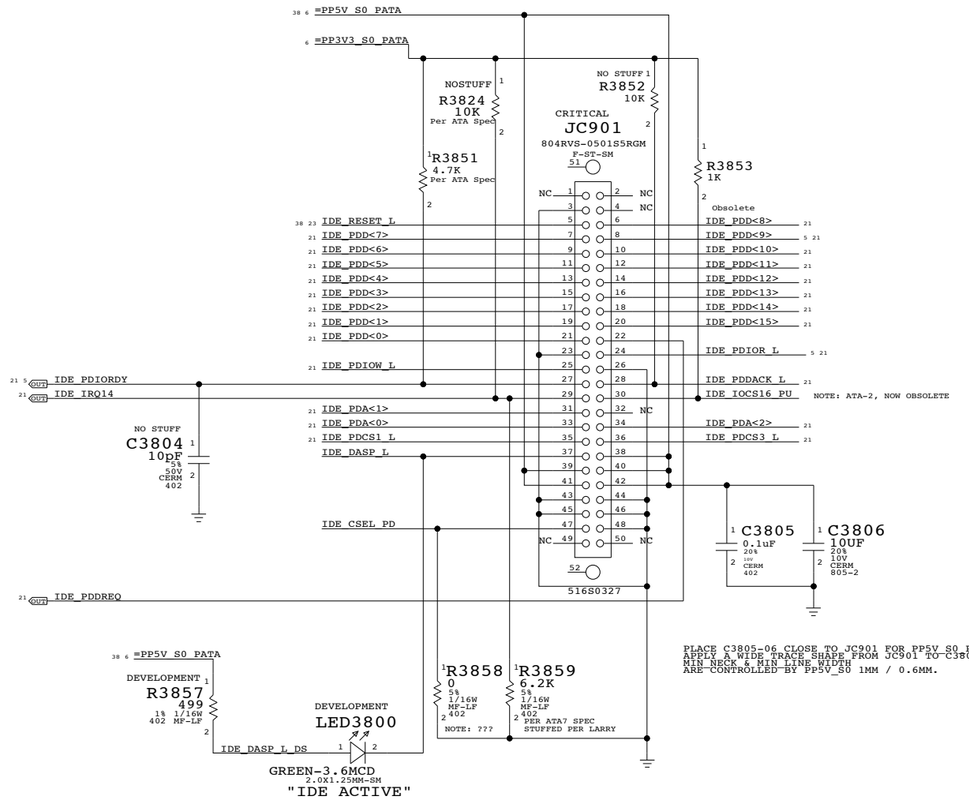
SYNC_MASTER=N/A SYNC_DATE=N/A

APPLE COMPUTER INC.

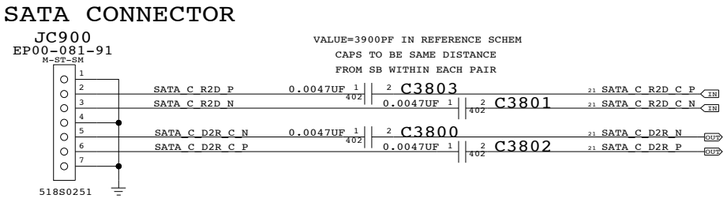
SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 34 OF 111	

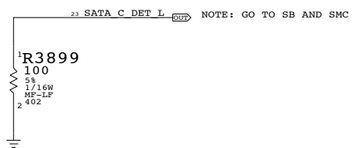


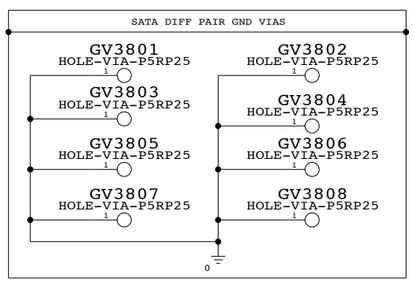


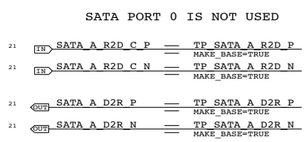


SATA CONNECTOR





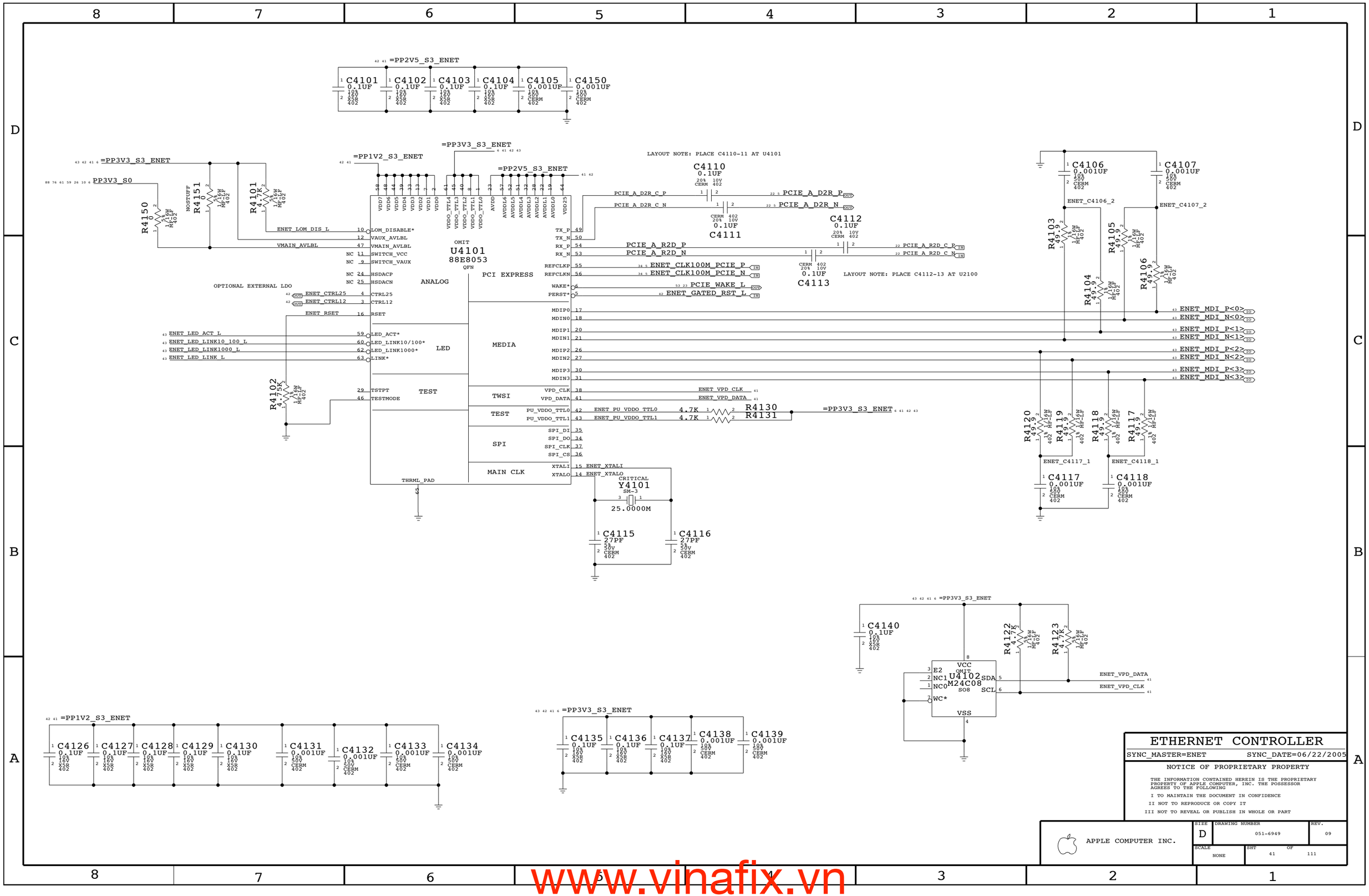


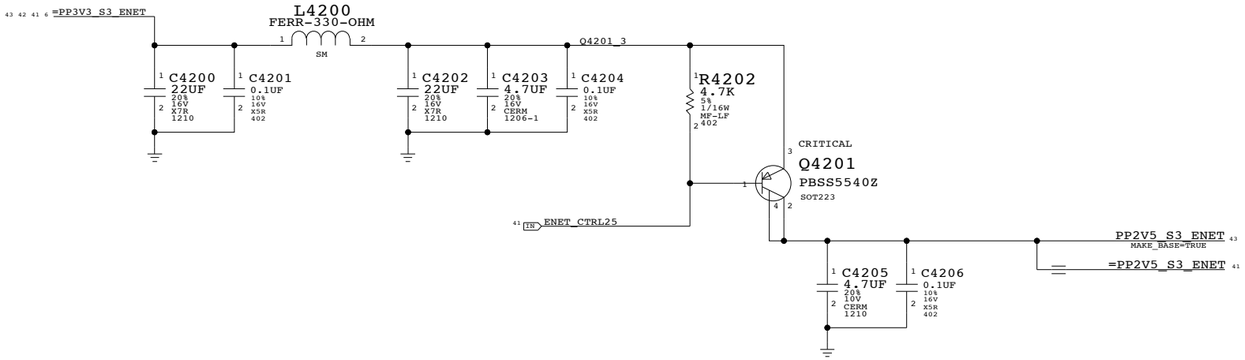


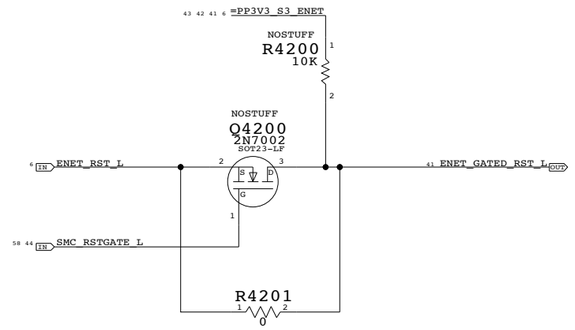
Disk Connectors

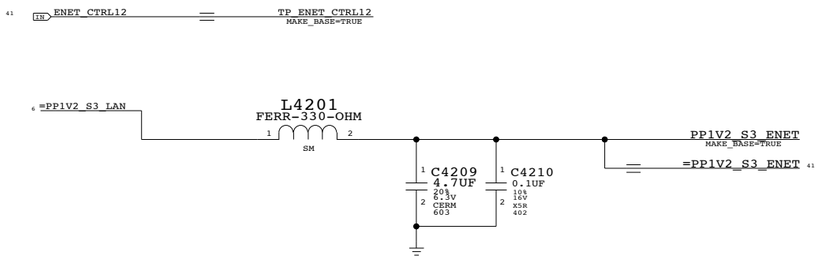
APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 38 OF 111	









ETHERNET MISC

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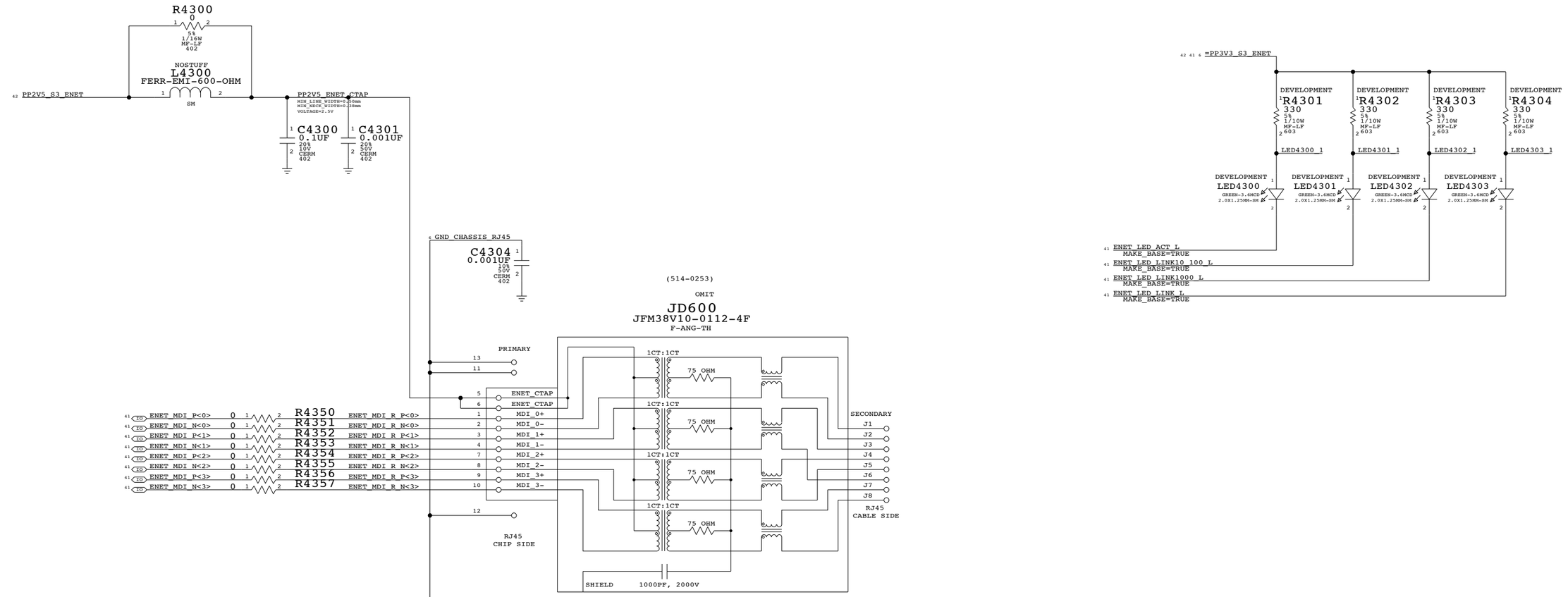
SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE	SHT	OF
NONE	42	111

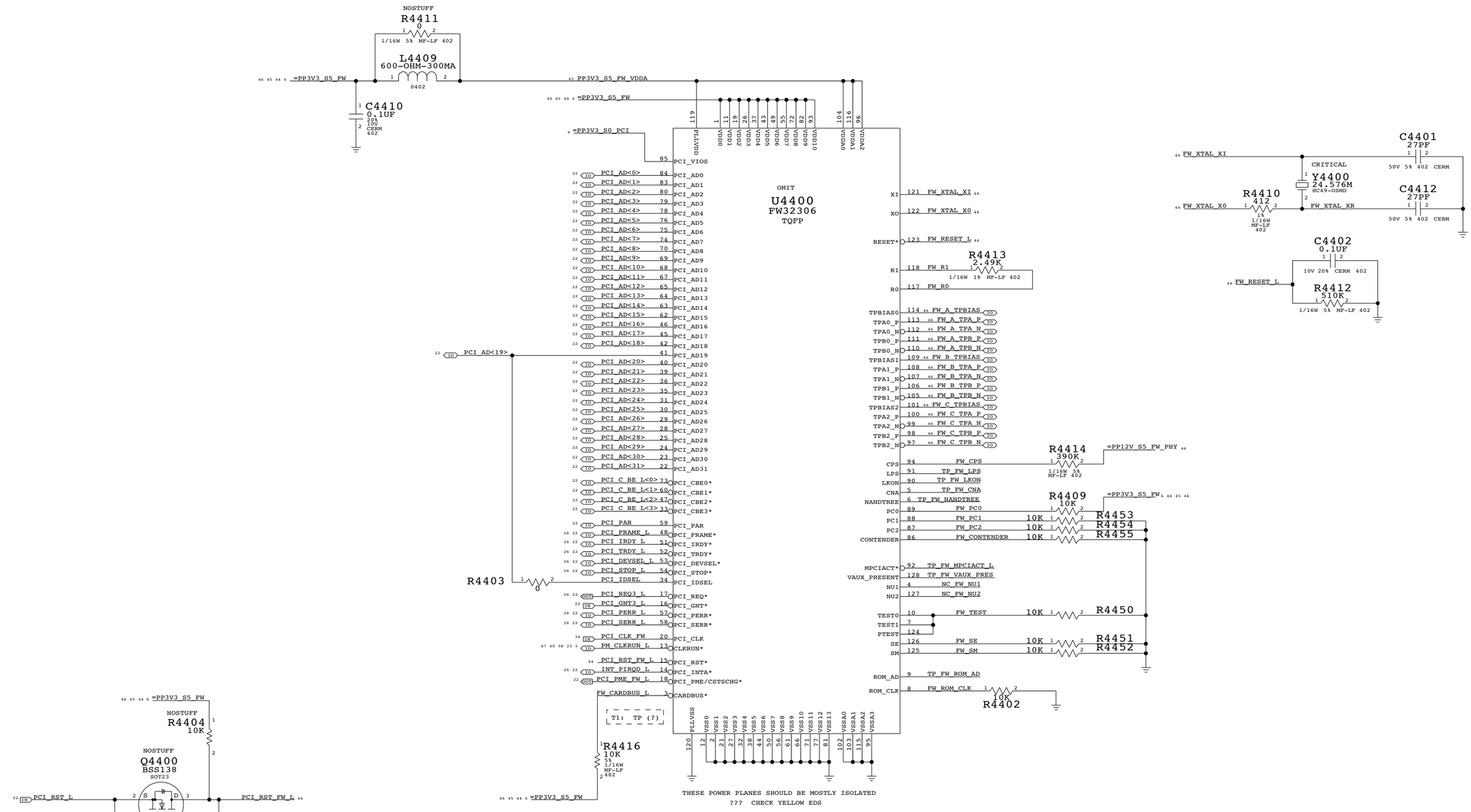


PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
514-0300	1	CON,RJ-45 7 DEGRESS	JD600	CRITICAL	17_INCH_LCD
514-0301	1	CON,RJ-45 7 DEGRESS	JD600	CRITICAL	20_INCH_LCD

ETHERNET CONNECTOR

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 43 OF 111	



FW: FW323-06

SYNC_MASTER=N/A SYNC_DATE=N/A

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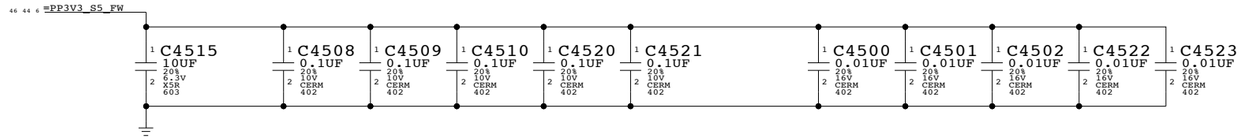
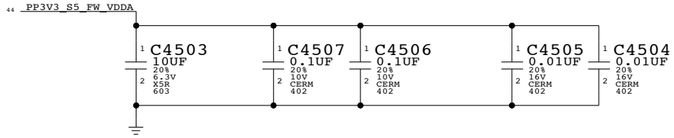
APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-6949	09
	SCALE NONE	SHT 44 OF 111	





FW: DECAPS

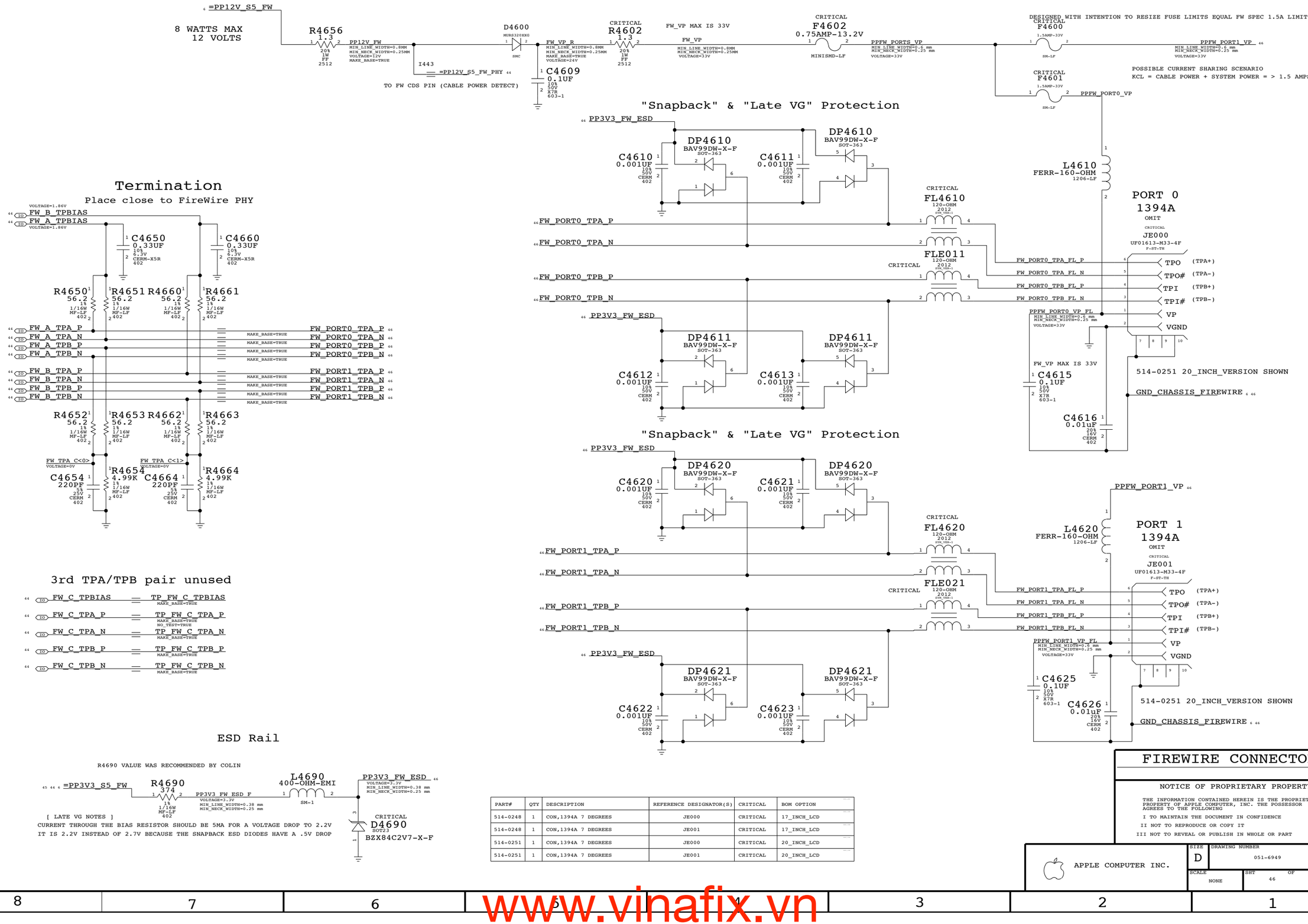
SYNC_MASTER=N/A SYNC_DATE=N/A

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09

SCALE NONE

SHT 45 OF 111



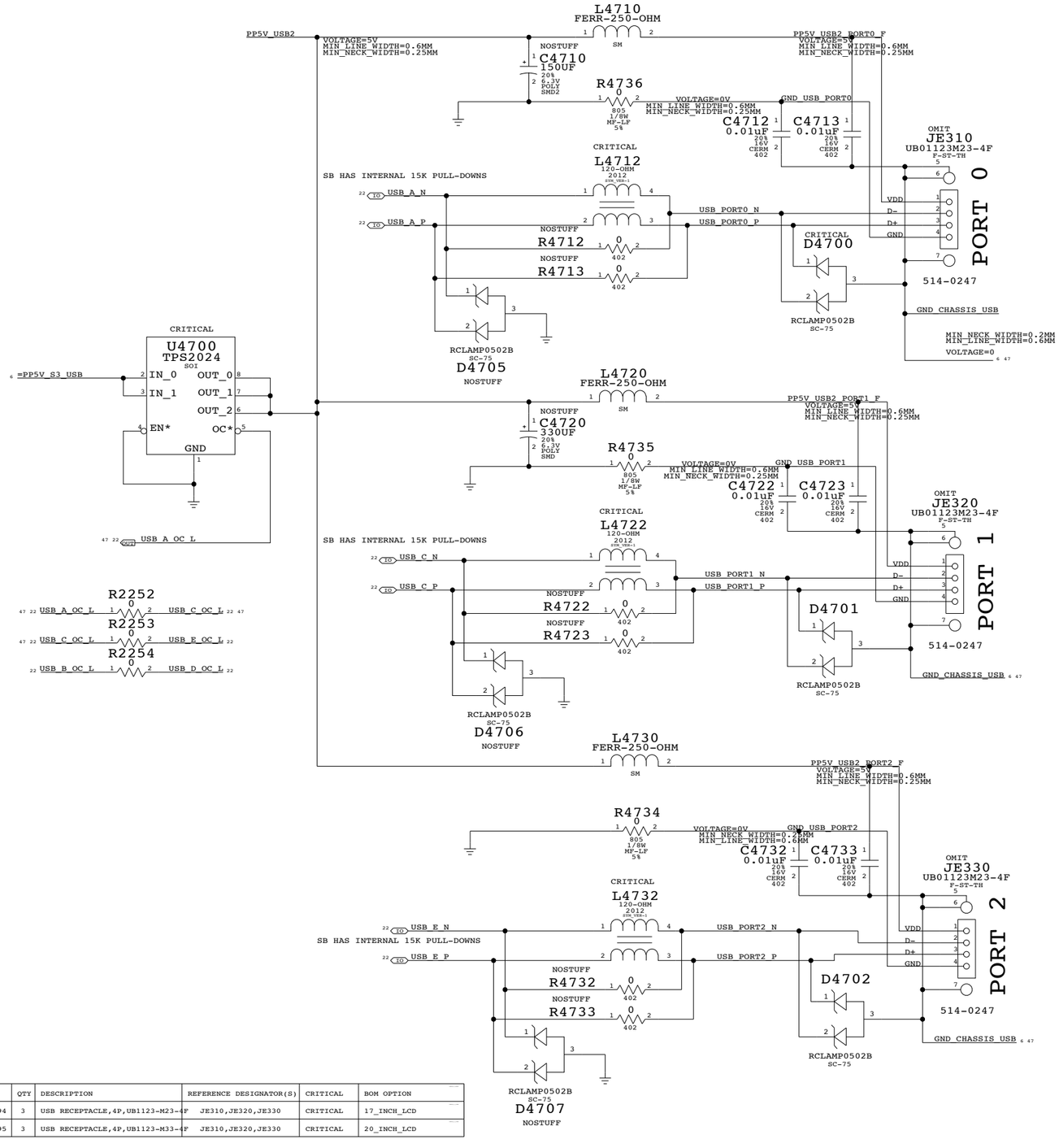
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
514-0248	1	CON,1394A 7 DEGREES	JE000	CRITICAL	17_INCH_LCD
514-0248	1	CON,1394A 7 DEGREES	JE001	CRITICAL	17_INCH_LCD
514-0251	1	CON,1394A 7 DEGREES	JE000	CRITICAL	20_INCH_LCD
514-0251	1	CON,1394A 7 DEGREES	JE001	CRITICAL	20_INCH_LCD

FIREWIRE CONNECTORS

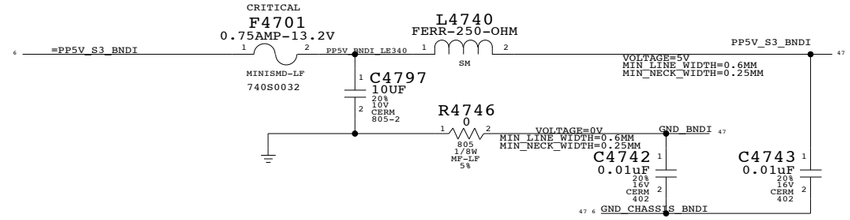
APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 46 OF 111	

External USB Ports



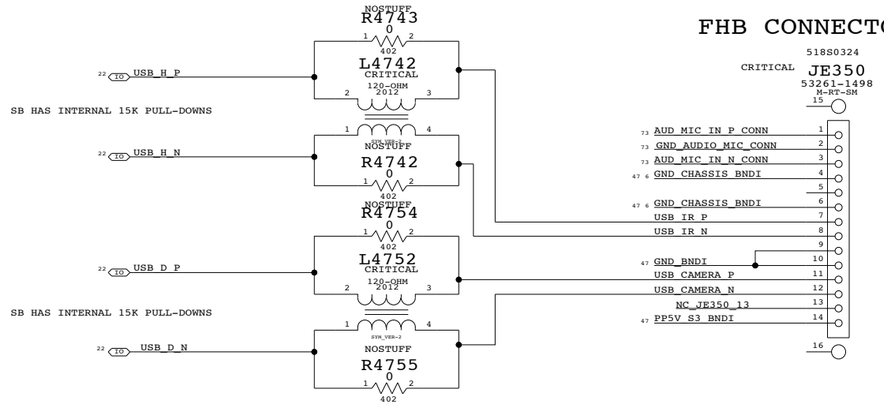
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
514-0294	3	USB RECEPTACLE,4P,UB1123-M23-4F	JE310,JE320,JE330	CRITICAL	17_INCH_LCD
514-0295	3	USB RECEPTACLE,4P,UB1123-M33-4F	JE310,JE320,JE330	CRITICAL	20_INCH_LCD



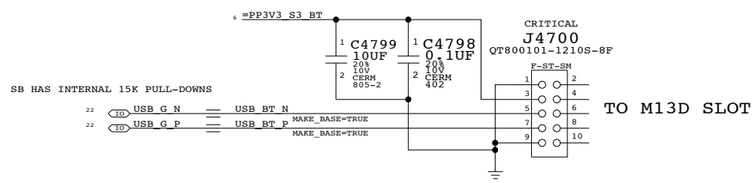
LAYOUT NOTE:
PLACE C4743, C4797 & L4740
NEAR JE350 PIN 14 IN THE
ORDER LISTED, AND NOT ON
BOTH SIDES OF THE PIN.

PLACE C4742 CLOSED TO JE350.

FHB CONNECTOR



BLUETOOTH



NOTE: STANDOFFS FOR J4700

SDF4700
STDOFF-4OD4.5H-1.35-TH

SDF4701
STDOFF-4OD4.5H-1.35-TH

USB Device Interfaces

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 47 OF 111	

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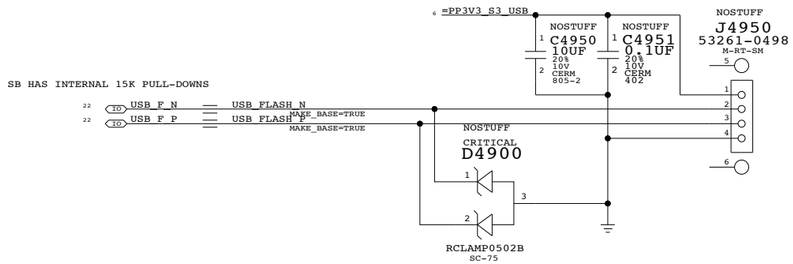
APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09

SCALE NONE

SHT 48 OF 111

CARD-READER USB CONN

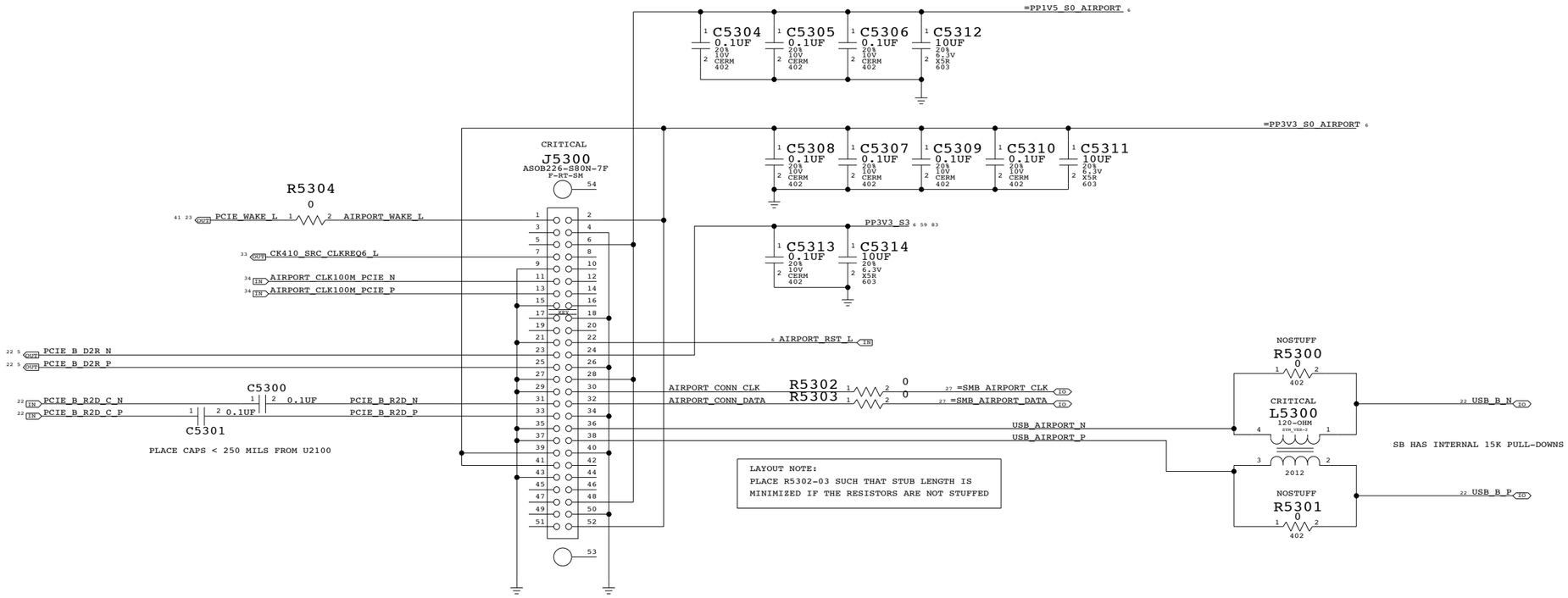


Flash Connector

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09

SCALE	SHT
NONE	49 OF 111



AIRPORT CONN

SYNC_MASTER=N/A SYNC_DATE=N/A

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SCALE: NONE	SHT 53 OF 111	

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

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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
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23	PM_LAN_ENABLE	B12	P10	P60/KIN0*	L13	59 SMC_PM_G2_EN
44 42	SMC_RSTGATE_L	C13	P11	P61/KIN1*	L14	59 SMC_ADAPTER_EN
77 26	ALL_SYS_PWRGD	A15	P12	P62/KIN2*	L15	22 SPI_ARB
76	RSMRST_PWRGD	B14	P13	P63/KIN3*	K12	63 22 SPI_SCLK
23	SMC_SB_NMI	B15	P14	P64/KIN4*	K13	63 22 SPI_SI
23	PM_RSMRST_L	C14	P15	P65/KIN5*	K14	63 22 SPI_SO
75	IMVP_VR_ON	D12	P16	P66/IRQ6*/KIN6*	J12	59 SMC_PROCHOT_3_3_L
23	PM_PWRBTN_L	C15	P17	P67/IRQ7*/KIN7*	J13	59 SMC_CPU_INIT_3_3_L
59	SMC_P20	D13	P20	P70/AN0	N12	76 SMC_CPU_ISENSE
59	SMC_P21	D14	P21	P71/AN1	R13	76 SMC_CPU_VSENSE
59	SMC_P22	D15	P22	P72/AN2	P13	59 SMC_GPU_ISENSE
59	SMC_P23	E12	P23	P73/AN3	R14	59 SMC_GPU_VSENSE
59	SMC_BATT_TRICKLE_EN_L	E14	P24	P74/AN4	P14	76 SMC_DCIN_ISENSE
59	SMC_BATT_CHG_EN	E15	P25	P75/AN5	R15	76 SMC_PBUS_VSENSE
59	SMC_P26	E13	P26	P76/AN6	N13	59 SMC_BATT_ISENSE
59	SMC_P27	F14	P27	P77/AN7	P15	59 SMC_FWIRE_ISENSE
67 60 21	LPC_AD<0>	D9	P30/LAD0	P80/PME*	C7	23 SMC_WAKE_SCI_L
67 60 21	LPC_AD<1>	C9	P31/LAD1	P81/GA20	A7	59 SMC_TPM_GPIO
67 60 21	LPC_AD<2>	A9	P32/LAD2	P82/CLKRUN*	B7	67 60 44 23 5 PM_CLKRUN_L
67 60 21	LPC_AD<3>	B9	P33/LAD3	P83/LPCPD*	D6	67 60 23 PM_SUS_STAT_L
67 60 21	LPC_FRAME_L	D8	P34/LFRAME*	P84/IRQ3*/TXD1	C6	59 SC_TX_L
6	SMC_LRESET_L	C8	P35/LRESET*	P85/IRQ4*/RXD1	A6	59 SC_RX_L
34	PCI_CLK_SMC	A8	P36/LCLK	P86/IRQ5*/SCK1/SCL1	B6	59 SMB_BSB_CLK
67 60 23	INT_SERIRQ	D7	P37/SERIRQ	P90/IRQ2*	K4	59 SMC_ONOFF_L
59	SMC_XDP_TMS_L	A5	P40/TMIO	P91/IRQ1*	J2	59 SMC_BC_ACOK
59	SMC_XDP_TDI_L	B5	P41/TMO0	P92/IRQ0*	J1	59 SMC_BS_ALRT_L
59	SMB_BSB_DATA	D5	P42/SDA1	P93/IRQ12*	J3	88 79 77 23 6 PM_SLP_S3_L
59	SMC_TPM_PP	C3	P43/TMI1/EXSCK1	P94/IRQ13*	J4	77 23 PM_SLP_S4_L
59	SMC_XDP_TRST_L	B1	P44/TMO1	P95/IRQ14*	H2	23 PM_SLP_S5_L
59	SMC_XDP_TCK	C2	P45	P96/EXCL	H1	59 SMC_SUS_CLK
59	SMC_SYS_LED	D3	P46/PWX0/PWM0	P97/IRQ15*/SDA0	G2	59 SMC_SMB_0_DATA
59	SMC_SYS_KBDLED	C1	P47/PWX1/PWM1			
60 59 5	SMC_TX_L	G1	P50			
60 59 5	SMC_RX_L	G4	P51			
59	SMC_SMB_0_CLK	F2	P52/SCL0			

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21	SMC_RCIN_L	R3	PA0/KIN8*/PA2DC	PE0	M3	59 SMC_CASE_OPEN
60 22	BOOT_LPC_SPI_L	P3	PA1/KIN9*/PA2DD	PE1*/ETCK	M2	60 59 5 SMC_TCK
26 23 5	PM_SYSRST_L	R2	PA2/KIN10*/PS2AC	PE2*/ETDI	M1	60 59 5 SMC_TDI
67 59	SMC_TPM_RESET_L	N3	PA3/KIN11*/PS2AD	PE3*/ETDO	L4	60 59 5 SMC_TDO
59 14	PM_EXTTS_L<0>	R1	PA4/KIN12*/PS2BC	PE4*/ETMS	L2	60 59 5 SMC_TMS
23 10	PM_THRM_L	N2	PA5/KIN13*/PS2BD	PF0/IRQ8*/PWM2	M7	SMC_PF0 59
59	SYS_ONEWIRE	M4	PA6/KIN14*/PS2CC	PF1/IRQ9*/PWM3	P6	SMC_PF1 59
23	PM_BATLOW_L	N1	PA7/KIN15*/PS2CD	PF2/IRQ10*/TMOY	R6	59 SMC_LID
23	SMC_EXTSMI_L	B10	PB0/LSMI*	PF3/IRQ11*/TMOX	N6	59 SMC_CPU_RESET_3_3_L
23	SMC_RUNTIME_SCI_L	A10	PB1/LSCI	PF4/PWM4	M6	59 SMC_BATT_ISET
59	SMC_ODD_DETECT	D10	PB2	PF5/PWM5	R5	59 SMC_BATT_VSET
76	ISENSE_CAL_EN	A11	PB3	PF6/PWM6	P5	59 SMC_SYS_ISET
59	SMC_EXCARD_CP	B11	PB4	PF7/PWM7	N5	59 SMC_SYS_VSET
59	SMC_EXCARD_PWR_EN	C11	PB5	PG0/EXIRQ8*/TMIX	P9	63 22 SPI_CE_L
59	SMC_EXCARD_PWR_OC_L	A12	PB6	PG1/EXIRQ9*/TMIY	R9	59 SMC_XDP_TCK_3_3
59	SMC_XDP_TDO_3_3_L	D11	PB7	PG2/EXIRQ10*/SDA2	N9	59 SMB_BSA_DATA
65	SMC_FAN_0_CTL	G14	PC0/TIOCA0/WUE8*	PG3/EXIRQ11*/SCL2	P8	59 SMB_BSA_CLK
66 65	SMC_FAN_1_CTL	G15	PC1/TIOCB0/WUE9*	PG4/EXIRQ12*/EXSDAA	R8	59 SMB_A_S3_DATA
66 65	SMC_FAN_2_CTL	G13	PC2/TIOCC0/TCLKA/WUE10*	PG5/EXIRQ13*/EXSCLA	M8	59 SMB_A_S3_CLK
59	SMC_FAN_3_CTL	G12	PC3/TIOCD0/TCLKB/WUE11*	PG6/EXIRQ14*/EXSDAB	P7	59 SMB_B_S0_DATA
65	SMC_FAN_0_TACH	H14	PC4/TIOCA1/WUE12*	PG7/EXIRQ15*/EXSCLB	R7	59 SMB_B_S0_CLK
66 65	SMC_FAN_1_TACH	H15	PC5/TIOCB1/TCLKC/WUE13*	PH0/EXIRQ6*	E1	59 SMC_PROCHOT
66 65	SMC_FAN_2_TACH	H13	PC6/TIOCA2/WUE14*	PH1/EXIRQ7*	F3	59 SMC_THRMTRIP
59	SMC_FAN_3_TACH	H12	PC7/TIOCB2/TCLKD/WUE15*	PH2/FWE	K2	59 SMC_FWE
59	SMS_X_AXIS	M11	PD0/AN8	PH3/EXEXCL	C4	59 ALS_GAIN
59	SMS_Y_AXIS	P11	PD1/AN9	PH4	D4	26 23 SMS_INT_L
59	SMS_Z_AXIS	R11	PD2/AN10	PH5	B3	59 SMS_ONOFF_L
59	SMC_ANALOG_ID	N11	PD3/AN11			
59	SMC_NB_ISENSE	P10	PD4/AN12			
59	SMC_MEM_ISENSE	R10	PD5/AN13			
59	ALS_LEFT	N10	PD6/AN14			
59	ALS_RIGHT	M10	PD7/AN15			

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G3	NC0	NC12	F15
H3	NC1	NC13	A14
K3	NC2	NC14	C12
L3	NC3	NC15	C10
N4	NC4	NC16	C5
M5	NC5	NC17	A3
N7	NC6	NC18	B8
M12	NC7	NC19	E4
M13	NC8	NC20	H4
L12	NC9	NC21	M9
K15	NC10	NC22	N8
J14	NC11		

59 58 6 =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
C5807 0.47UF 20% 6.3V CERM-X5R 402
VCL IS INTERNAL RAIL

LAYOUT NOTE:
PLACE R5899 AND C5820 NEAR SMC PIN N14,N15

59 58 6 =PP3V3_S5_SMC
R5899 4.7 5% 1/16W MF-LF 402
PP3V3_AVCC_SMC
MIN_LINE_WIDTH=0.25 MM MIN_NECK_WIDTH=0.20 MM
C5820 0.1UF 20% 10V CERM 402
85 76 59 58 GND_SMC_AVSS

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PP3V3_AVREF_SMC 59
59 58 6 =PP3V3_S5_SMC
R5809 10K 5% 1/16W MF-LF 402
R5801 10K 5% 1/16W MF-LF 402
60 59 SMC_RST_L
59 SMC_XTAL
59 SMC_EXTAL
MD1 SMC_MD1 60
MD2 KBC_MDE
NMI SMC_NMI 60
ETRST* SMC_TRST_L
NOSTUFF
R5898 10K 5% 1/16W MF-LF 402
R5803 0 5% 1/16W MF-LF 402
R5802 10K 5% 1/16W MF-LF 402
XW5800 SM
GND_SMC_AVSS 58 59 76 85

SMC

SYNC_MASTER=N/A SYNC_DATE=N/A

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D	051-6949	09
SCALE: NONE	SHT 58 OF 111	

SMC RESET BUTTON

=PP3V3_S5_SMC

C5901 0.1uF 20% 10V CERM 402

C5900 0.01UF 10% 16V CERM 402

DEVELOPMENT SW5900 SPST SM-LF

SMC_MANUAL_RST_L

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

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

SMC_RST_L

WHITE SYSLED

LED2901 WHITE-500MCD 3X2MM-SM

PP5V_S3

SYS_LED_DRV_K

MIN_LINE_WIDTH=0.6MM MIN_NECK_WIDTH=0.2MM 17_INCH_LCD

R5901 56.2 1% 1/16W MF-LF 402

SYS_LED_DRV_C

MIN_LINE_WIDTH=0.6MM MIN_NECK_WIDTH=0.25MM

Q5900 FDV301N SOT23-LF

SMC_SYS_LED

NOSTUFF R5902 4.7K 5% 1/16W MF-LF 402

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
114S0081	1	RES,LF,MTL FILM,39.2 OHM,1%,402	R5901	20_INCH_LCD

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 SMB_SMB_0_CLK — TP_SMC_SMB_0_CLK FUNC_TEST=TRUE

10K R5913 SMB_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

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

SMC_TPM_RESET_L R5827 10K

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 10K R5924

PULLDOWN UNUSED ANALOG SENSE PINS ON PORT 7.

SMC_RX_L — DEVELOPMENT_SMC R5922 — SMC_RX_L

SMC_TX_L — DEVELOPMENT_SMC R5923 — SMC_TX_L

SELECT TPM GPIO

SMC_TPM_GPIO — R5920 — TPM_GPIO1

SMC_TPM_GPIO2 R5921 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%

SMC_GPU_VSENSE

C5919 0.22UF 20% 6.3V X5R 402

GND_SMC_AVSS

ALIAS SENSORS INTO SMC I2C BUSSES

SMB_B_S0_CLK — =I2C_HD_TEMP_SCL, =I2C_ODD_TEMP_SCL, =SMB_THRM_CLK

SMB_B_S0_DATA — =I2C_HD_TEMP_SDA, =I2C_ODD_TEMP_SDA, =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-CPU JTAG LEVEL-SHIFTER

XDP_TDI — (PULLUP ON CPU PAGE) NOSTUFF Q5902 2N7002DW-X-F SOT-363 — SMC_XDP_TDI_L

XDP_TMS — (PULLUP ON CPU PAGE) NOSTUFF Q5902 2N7002DW-X-F SOT-363 — SMC_XDP_TMS_L

=PP1V05_S0_CPU — SMC_XDP_TRST_L_R — NOSTUFF R5927 1K — NOSTUFF Q5903 MMDT3904XF SOT-363-LF — SMC_XDP_TRST_L

(PULLDOWN ON ITP CONNECTOR PAGE) R5927 VALUE SUBJECT TO CHANGE.

XDP_TRST_L

=PP1V05_S0_CPU — SMC_XDP_TCK_R — NOSTUFF R5925 1K — NOSTUFF Q5903 MMDT3904XF SOT-363-LF — SMC_XDP_TCK

R5925 VALUE SUBJECT TO CHANGE. (PULLDOWN ON CPU PAGE)

XDP_TCK

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

SW5901 SPST SM-LF

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

SYS POWER BUTTON — SMC_ONOFF_L

GENERATE 0.48V MID-VREF

C5902 0.1uF 20% 10V CERM 402

=PP3V3_S0_FAN

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

P0V48_SMC_LSREF

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

SMC CRYSTAL

LAYOUT NOTE: PLACE CAPACITORS BETWEEN CRYSTAL AND SMC/TPM

C5800 22PF CERM 5% 50V 402

OMIT Y5800 20.000M SM-3

C5801 22PF CERM 5% 50V 402

SMC_XTAL — SMC_EXTAL

TPM CRYSTAL

C6704 15PF 5% 50V CERM 402

CRITICAL Y6700 32.768K SM-LF

C6705 15PF 402 50V 5% CERM

TPM_XTALI — TPM_XTALO

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

P0V48_SMC_LSREF

CPU_PROCHOT_L

U5999 LMV339 TSSOP

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

TP_U5999_P1

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

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

XDP_TCK — TP_U5999_P13

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

XDP_TDO — TP_U5999_P14

P0V48_SMC_LSREF

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

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

SMC_REF_IN

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

=PP3V3_S5_SMC

CRITICAL U5940 REF3133 SOT23-3 IN TI OUT GND

PP3V3_AVREF_SMC

C5940 0.47uF 20% 6.3V CERM-X5R 402

C5942 10uF 20% 6.3V X5R 603

C5941 0.01uF 20% 16V CERM 402

GND_SMC_AVSS

SMC & TPM SUPPORT

NOTICE OF PROPRIETARY PROPERTY

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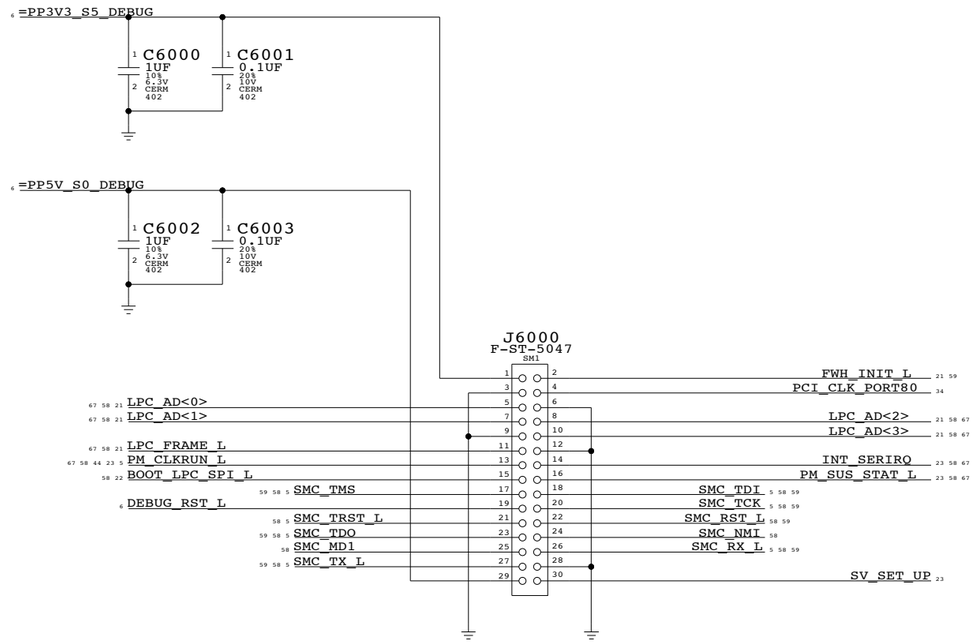
I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

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	051-6949	09
SCALE: NONE	SHT 59 OF 111	

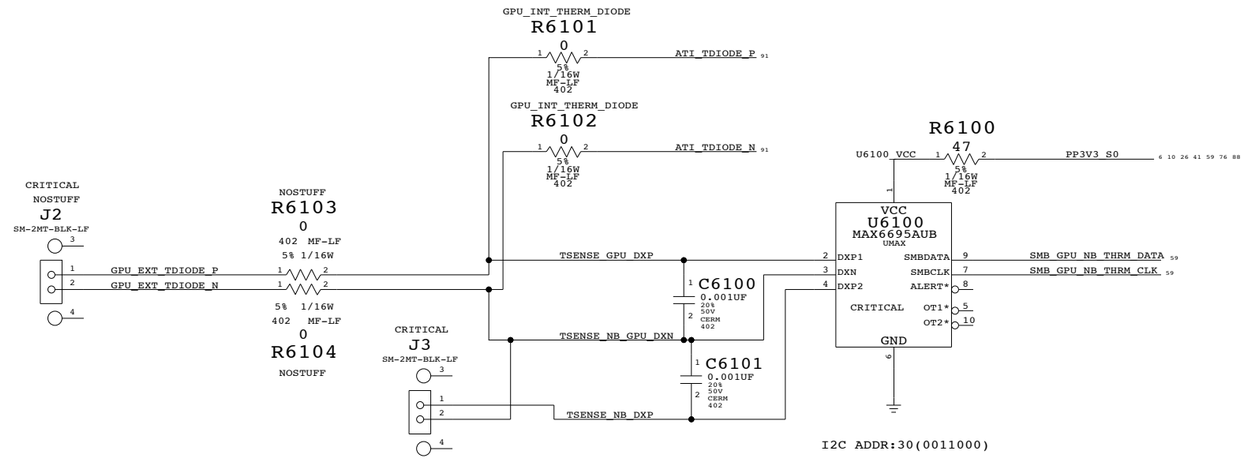


LPC+ CONN

SYNC_MASTER=N/A SYNC_DATE=N/A

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 60 OF 111	



GPU+NB THERMAL

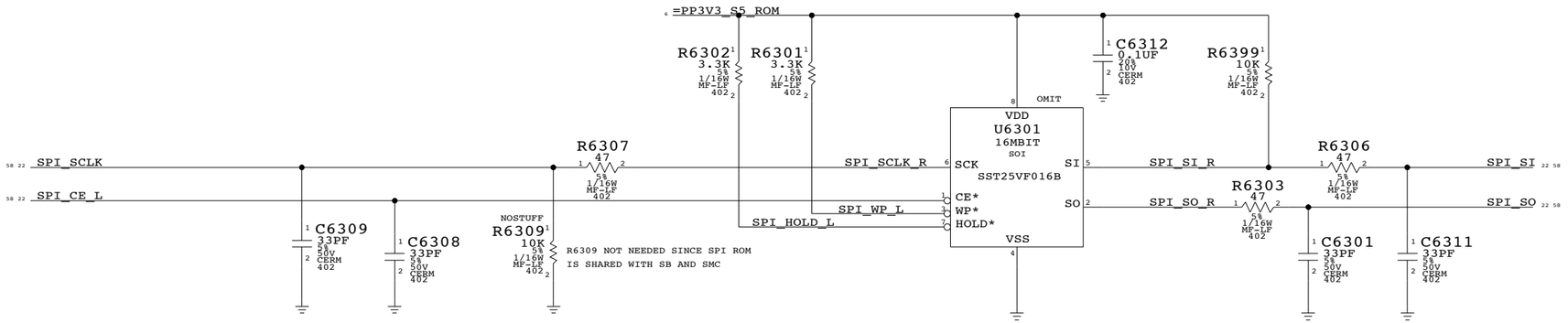
SYNC_MASTER=N/A SYNC_DATE=N/A

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09

SCALE NONE

SHT 61 OF 111



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

R6303 SHOULD BE PLACED LESS THAN 2.54MM FROM U6301

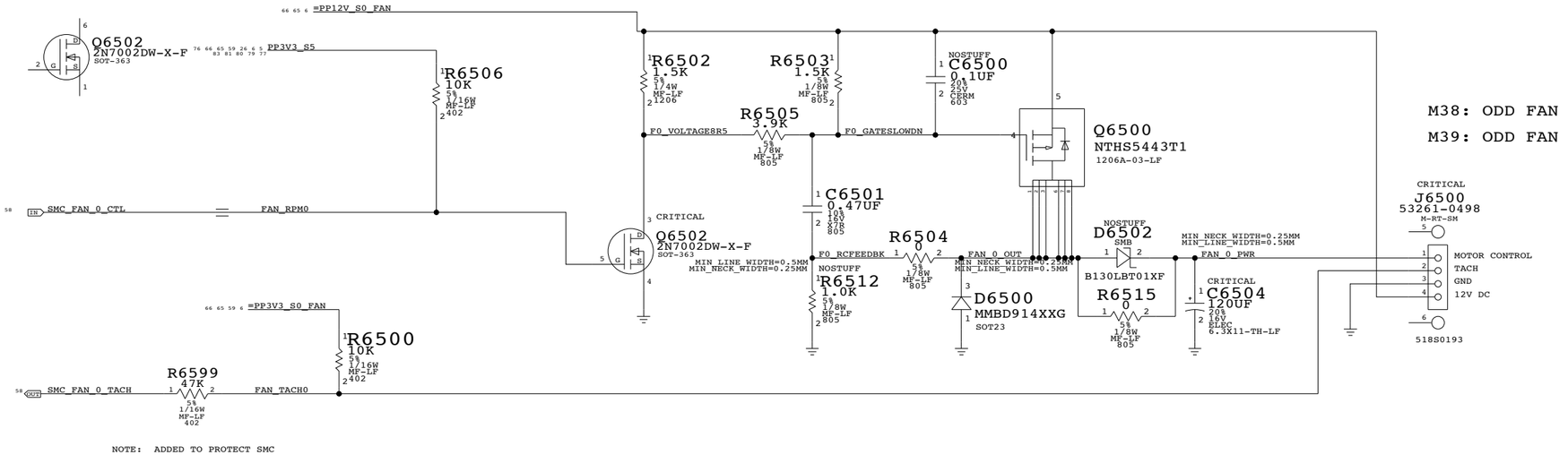
SPI BOOTROM

SYNC_MASTER=MASTER SYNC_DATE=5/23/05

APPLE COMPUTER INC.

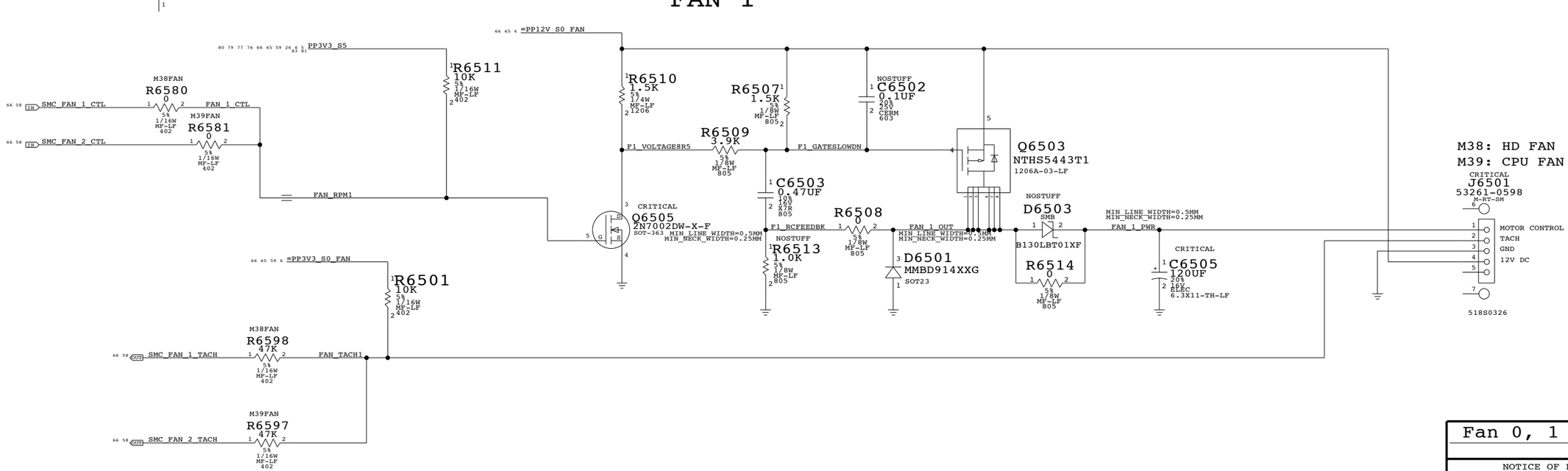
SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 63 OF 111	

FAN 0



NOTE: ADDED TO PROTECT SMC

FAN 1

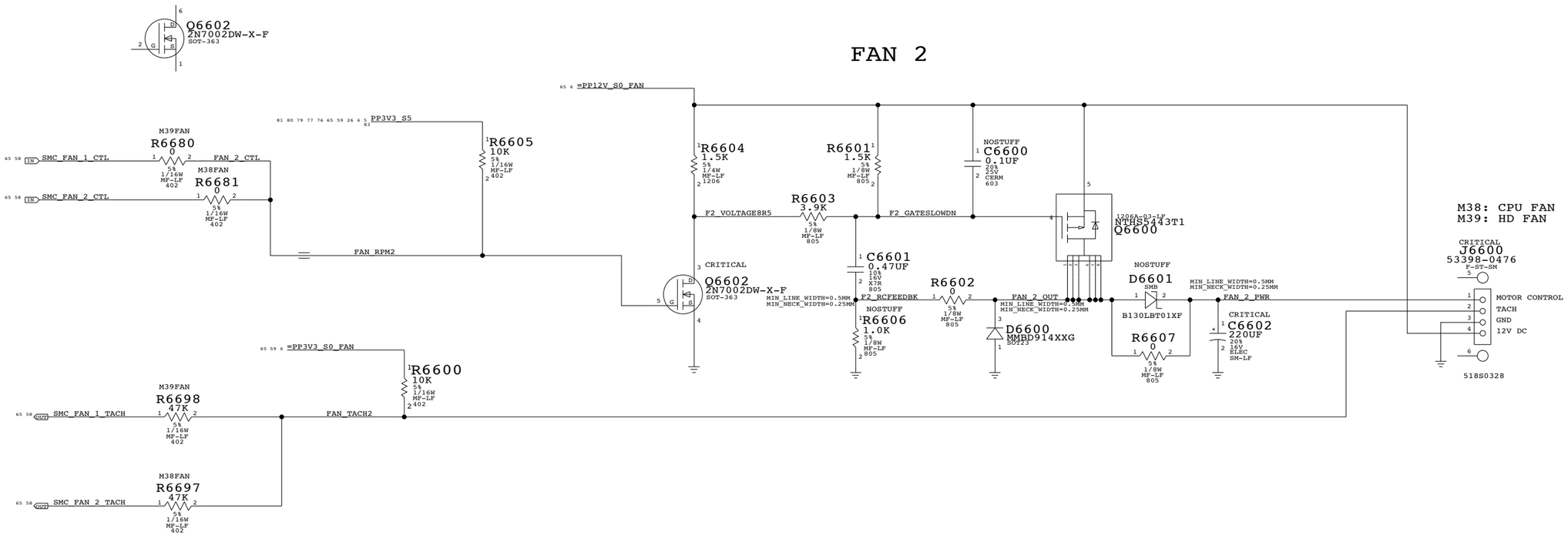


Fan 0, 1 & System Temp

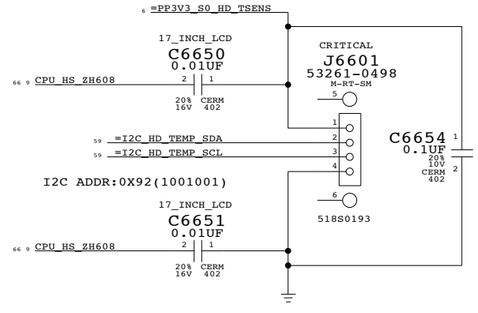
APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 65 OF 111	

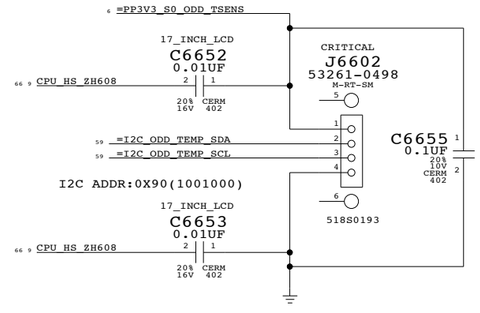
FAN 2



HD TEMP SENSOR



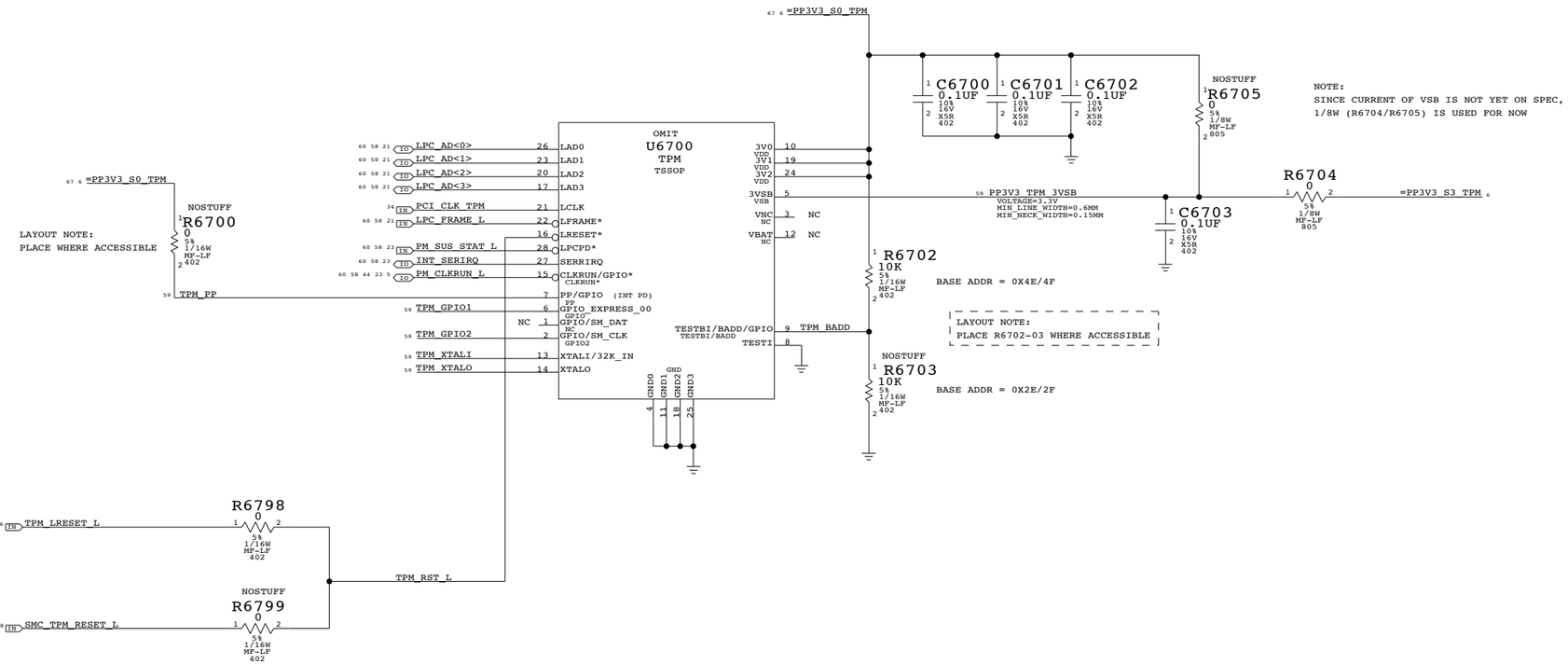
ODD TEMP SENSOR



Fan 2 & HD Temp

APPLE COMPUTER INC.

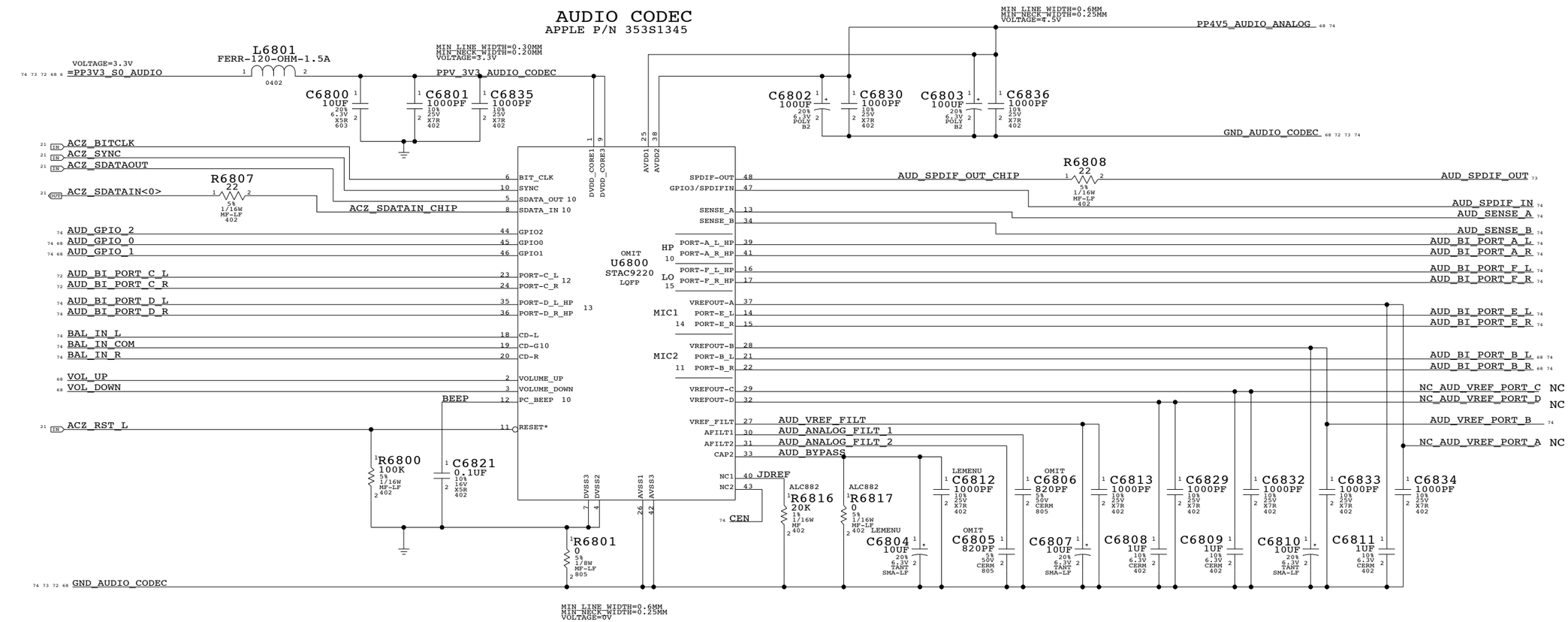
SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 66 OF 111	



TPM		
SYNC_MASTER=N/A		SYNC_DATE=N/A

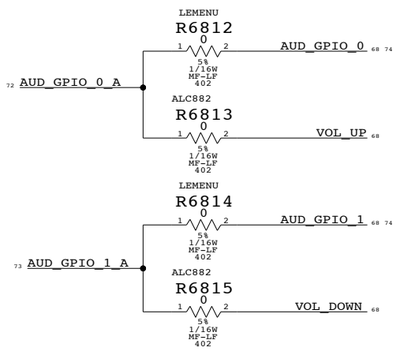
APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-6949	09
	SCALE: NONE	SHT 67 OF 111	

AUDIO CODEC
APPLE P/N 353S1345

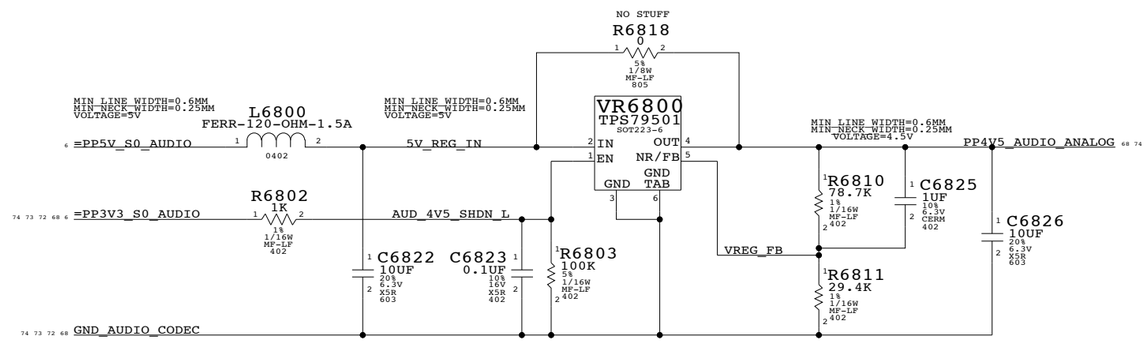


AUD_BI_PORT_B_L — AUD_BI_PORT_B_R

MIC INPUT TO BOTH L&R



4.5V POWER SUPPLY FOR CODEC AND LINE IN AMP
APN: 353S1233



AUDIO: CODEC		
SYNC_MASTER=FINO-SO	SYNC_DATE=04/28/2005	
APPLE COMPUTER INC.	SIZE: D	DRAWING NUMBER: 051-6790
	REV.: ??	
	SCALE: NONE	SHT: 68 OF 154

SPEAKER AMP

APPLE P/N 353S0680

NET SPACING TYPE=AUDIO
MIN_LINE WIDTH=0.6MM
MIN_NECK_WIDTH=0.25MM
VOLTAGE=12V

=PP12V_S0_AUDIO_SPKRAMP

L7200
FERR-250-OHM
SM-1

NET SPACING TYPE=AUDIO
MIN_LINE WIDTH=0.6MM
MIN_NECK_WIDTH=0.25MM
VOLTAGE=12V

PP12V_AUD_SPKRAMP_PLANE

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% 35V X7R 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

AUD_BI_PORT_C_L

L7205 1000-OHM-200MA 0603
C7204 0.47UF 10% 16V X7R 805
C7215 100PF 5% 50V CERM 402
AUDSAMPINLN
AUD_SAMP_INL_N

L7206 1000-OHM-200MA 0603
C7205 0.47UF 10% 16V X7R 805
AUDSAMPINLP
AUD_SAMP_INL_P

GND_AUDIO_CODEC

L7207 1000-OHM-200MA 0603
C7206 0.47UF 10% 16V X7R 805
AUDSAMPINRP
AUD_SAMP_INR_P

C7216 100PF 5% 50V CERM 402
AUD_SAMP_INR_N

AUD_BI_PORT_C_R

L7208 1000-OHM-200MA 0603
C7207 0.47UF 10% 16V X7R 805
AUDSAMPINRN

R7214 10K 1% 1/16W MF-LF 402

U7200
MAX9714
QFN-LF

VDD	3, 4, 21, 22		
INL-	9	CHOLD	7
INL+	10	OUTL+	31
INR+	16	OUTL+	32
INR-	15	OUTL-	29
G1	17	OUTL-	30
G2	18	C1+	6
FS1	19	C1-	5
FS2	20	OUTR+	27
SHDN*	11	OUTR+	28
NC	8	OUTR-	25
REG	14	OUTR-	26
AGND PAD	13	PGND	12
THM	33	SS	

MIN_LINE WIDTH=0.2MM
MIN_NECK_WIDTH=0.2MM
AUD_MAX9714_CHOLD

NET SPACING TYPE=AUDIO
MIN_LINE WIDTH=0.5MM
MIN_NECK_WIDTH=0.3MM
AUDSAMPOUTLP

NET SPACING TYPE=AUDIO
MIN_LINE WIDTH=0.5MM
MIN_NECK_WIDTH=0.3MM
AUDSAMPOUTLN

MIN_LINE WIDTH=0.2MM
MIN_NECK_WIDTH=0.15MM
AUDSAMPCPP

C7208 0.1UF 10% 50V X7R 603-1

MIN_LINE WIDTH=0.2MM
MIN_NECK_WIDTH=0.15MM
AUDSAMPCPN

NET SPACING TYPE=AUDIO
MIN_LINE WIDTH=0.5MM
MIN_NECK_WIDTH=0.3MM
AUDSAMPOURTP

NET SPACING TYPE=AUDIO
MIN_LINE WIDTH=0.5MM
MIN_NECK_WIDTH=0.3MM
AUDSAMPOUTRN

MIN_LINE WIDTH=0.2MM
MIN_NECK_WIDTH=0.15MM
SPKRAMP_SS

L7201 180-OHM-1.5A 0603
L7202 180-OHM-1.5A 0603
L7203 180-OHM-1.5A 0603
L7204 180-OHM-1.5A 0603

NET SPACING TYPE=AUDIO
MIN_LINE WIDTH=0.5MM
MIN_NECK_WIDTH=0.3MM

AUD_SPKR_OUTL_P
AUD_SPKR_OUTL_N
AUD_SPKR_OUTR_P
AUD_SPKR_OUTR_N

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

C7209 0.47UF 10% 16V X7R 805

XC7200 50X28

NET SPACING TYPE=AUDIO
MIN_LINE WIDTH=0.6MM
MIN_NECK_WIDTH=0.25MM

XW7201 SM OMIT

NET SPACING TYPE=AUDIO
MIN_LINE WIDTH=0.6MM
MIN_NECK_WIDTH=0.25MM

GND_AUDIO_SPKRAMP

GND_AUDIO_SPKRAMP_PLANE

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

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

R7215 10K 5% 1/16W MF-LF 402

Q7200 2N7002DW-X-F SOT-363

R7213 47K 5% 1/16W MF-LF 402
AUD_GPIO_0_A
AUD_DEBOUNCE

R7212 15K 5% 1/16W MF-LF 402
C7220 100PF 5% 50V CERM 402
C7221 100PF 5% 50V CERM 402

C7214 1UF 10% 25V X5R 603

NOSTUFF
R7219 0 5% 1/16W MF-LF 402

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

=PP3V3_S0_AUDIO

RP7200 47K 5% 1/16W SM-LF

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

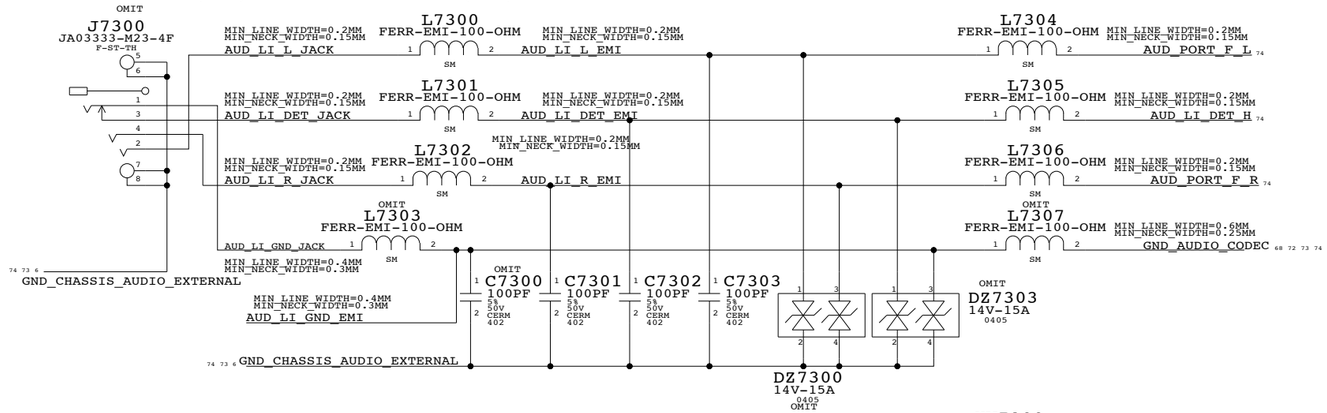
SYNC_MASTER=FINO-SO SYNC_DATE=04/28/2005

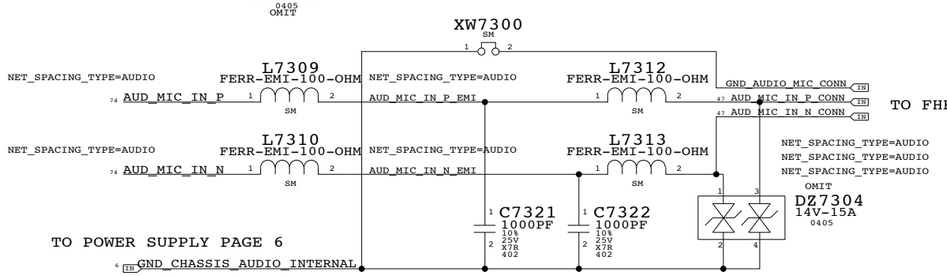
APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6790	??
SCALE: NONE	SHT 72 OF 154	

LINE IN JACK

APPLE P/N 514-0246 (M23) APPLE P/N 514-0249 (M33)



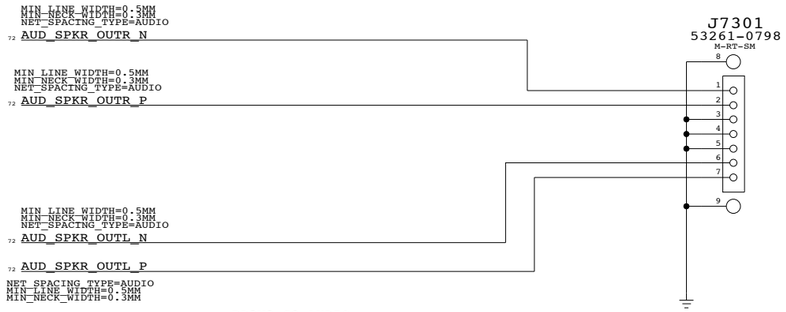


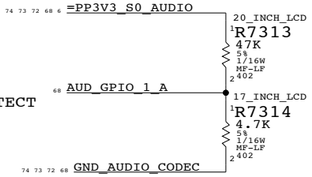
TO POWER SUPPLY PAGE 6

TO FHB CONNECTOR PAGE 47

SPEAKER CABLE CONNECTOR

APPLE P/N 518S0325



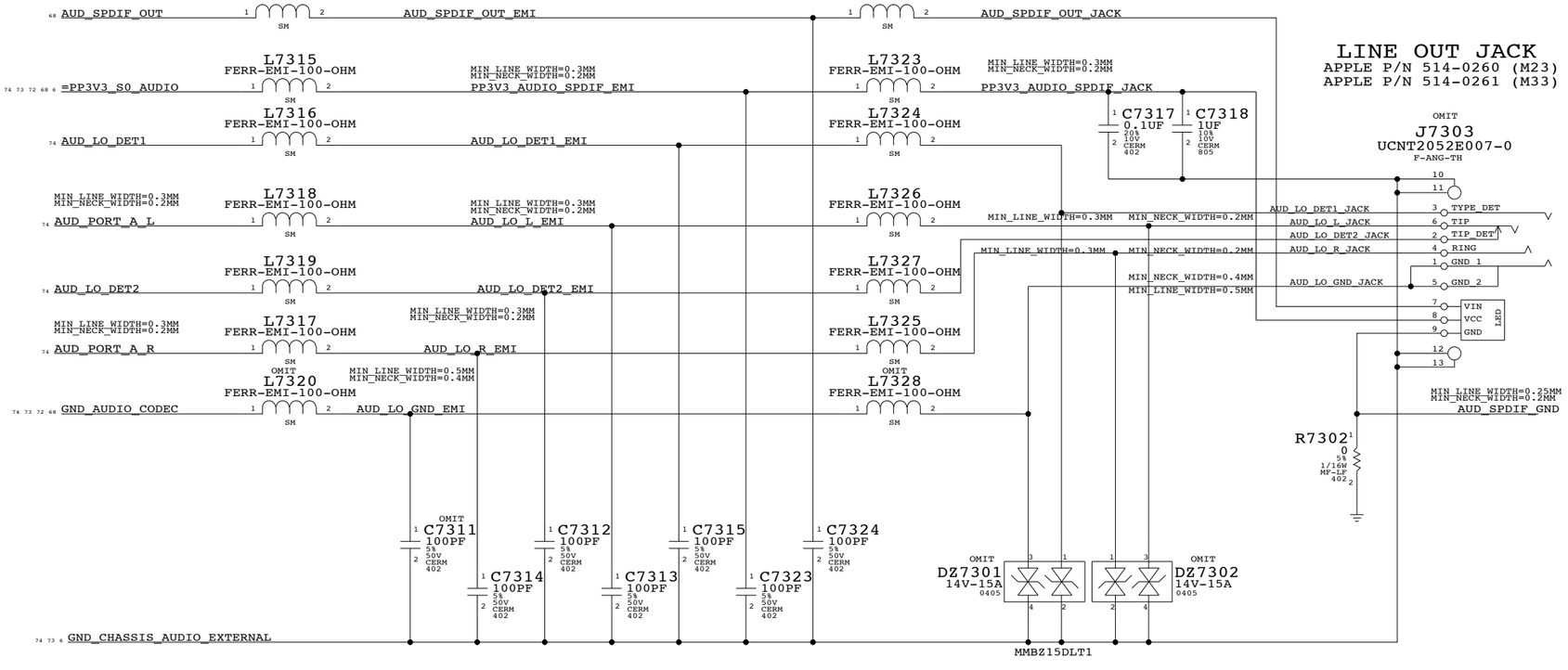


TO GPIO 1
SPEAKER TYPE DETECT

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
514-0246	1	LINE IN CONNECTOR, 5.5 DEG	J7300	CRITICAL	17_INCH_LCD
514-0260	1	COMBO OUT CONN, 5.5 DEG	J7303	CRITICAL	17_INCH_LCD
514-0249	1	LINE IN CONNECTOR, 4.5 DEG	J7300	CRITICAL	20_INCH_LCD
514-0261	1	COMBO OUT CONN, 4.5 DEG	J7303	CRITICAL	20_INCH_LCD
353S1345	1	SIGMATEL STAC9220	U6800	CRITICAL	LEMENU
353S1268	1	REALTEK ALC882	U6800	CRITICAL	ALC882
131S8223	2	CAPACITOR, 820PF	C6805,C6806	CRITICAL	LEMENU
131S0534	2	CAPACITOR, 1UF	C6805,C6806	CRITICAL	ALC882
377S0043	5	TRANSIENT VOLTAGE DIODE	DZ7300,DZ7301,DZ7302,DZ7303,DZ7304	CRITICAL	
113S0022	4	RESISTOR, 0 OHM, 0603	L7303,L7307,L7320,L7328		
116S0004	2	RESISTOR, 0 OHM, 0402	C7300,C7311		

LINE OUT JACK

APPLE P/N 514-0260 (M23)
APPLE P/N 514-0261 (M33)



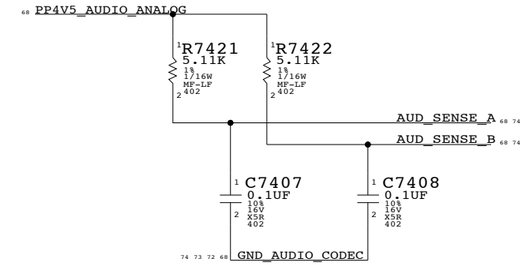
AUDIO: CONNECTORS

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

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6790	??
SCALE: NONE	SHT 73 OF 154	

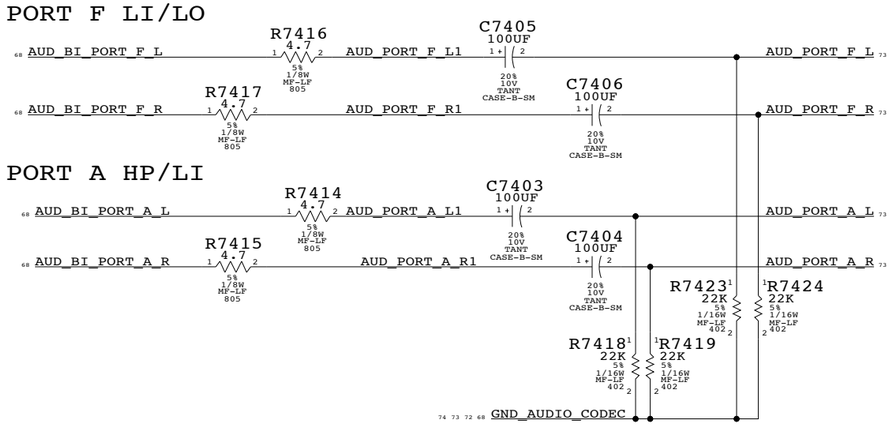
JACK SENSE PULL UPS(PLACE NEXT TO CODEC)



USED PORTS
PORT A HP/LI
PORT B MIC IN
PORT C BI SPEAKERS
PORT F LI/LO

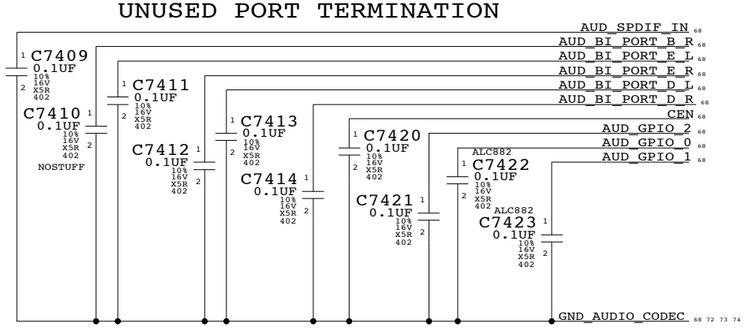
UNUSED PORTS
PORT E
PORT D

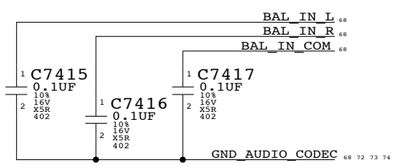
PORT F LI/LO



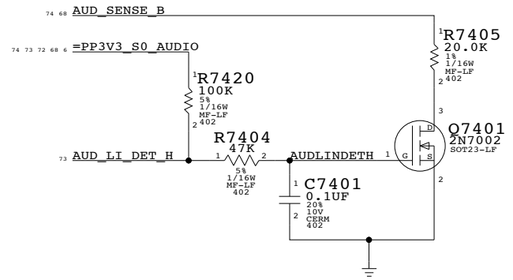
PORT A HP/LI

UNUSED PORT TERMINATION

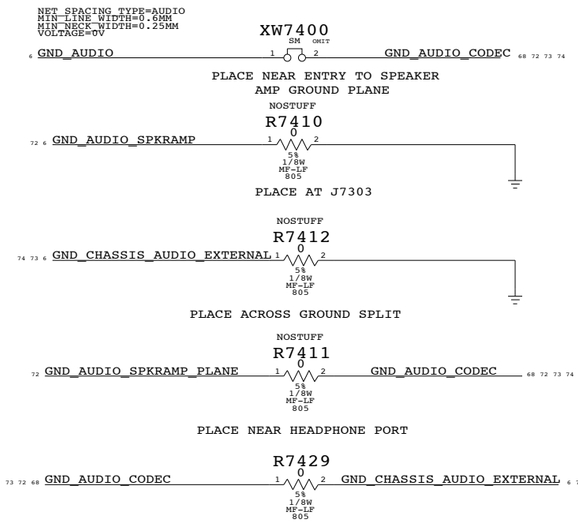




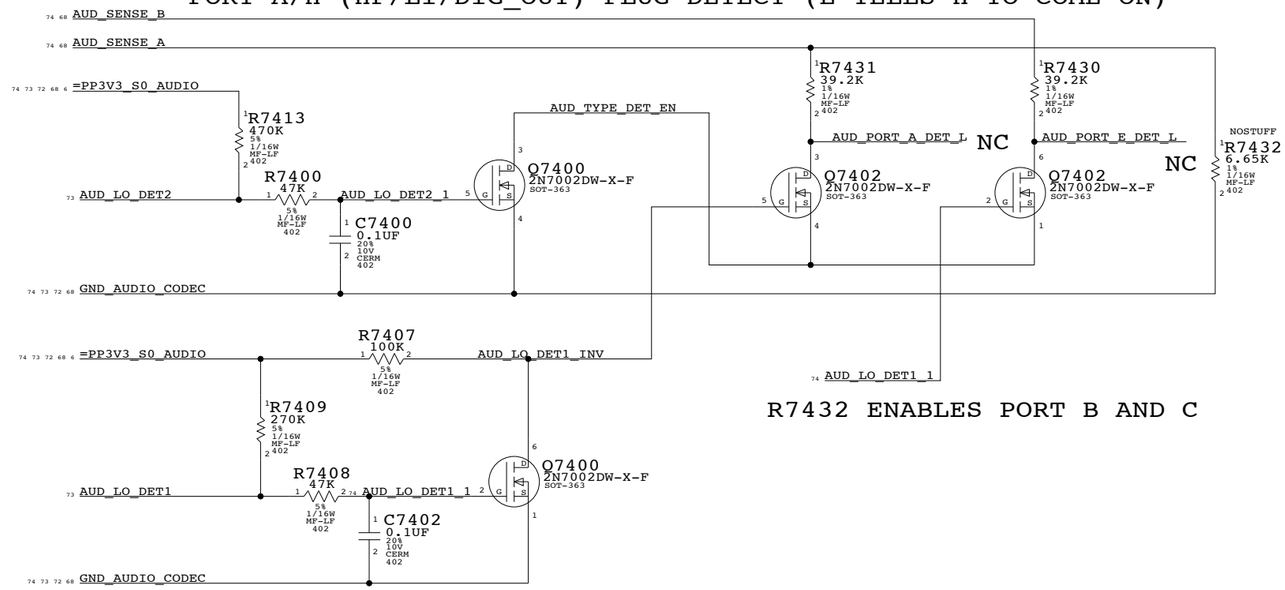
PORT F (LI/LO) PLUG DETECT



AUDIO GROUND RETURNS

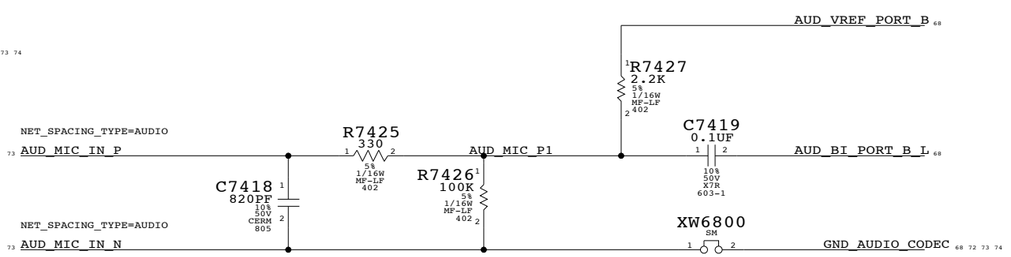


PORT A/H (HP/LI/DIG_OUT) PLUG DETECT (E TELLS H TO COME ON)



R7432 ENABLES PORT B AND C

MICROPHONE IMPEDANCE MATCHING CIRCUIT

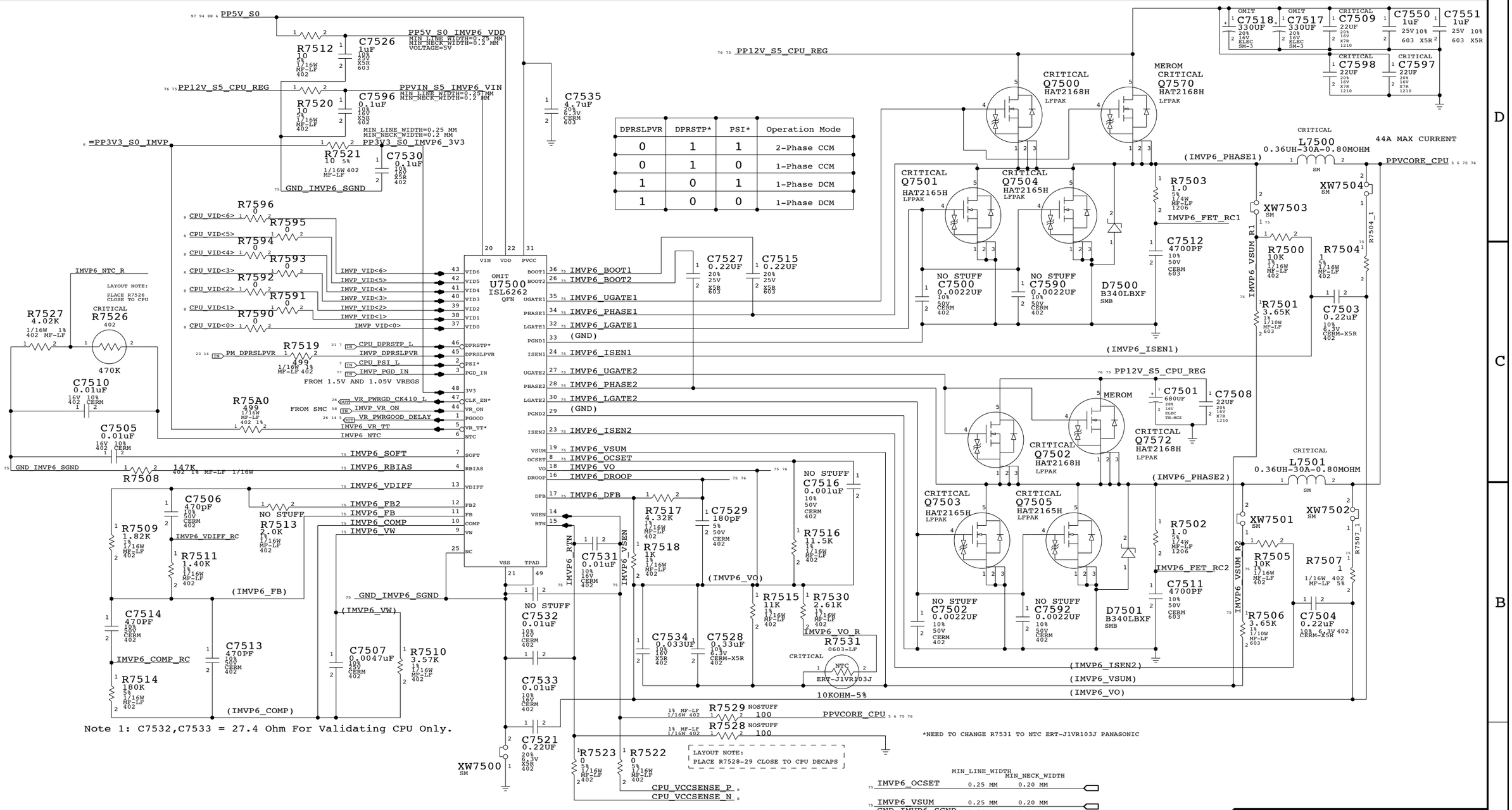


AUDIO: POWER SUPPLIES

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

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6790	??
SCALE: NONE	SHT 74 OF 154	



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.

IMVP6 CPU VCORE REGULATOR

CPU_VCCSENSE P & N ARE DIFF PAIRS
ROUTE AS 18MIL WIDE, 7MIL SPACE

	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

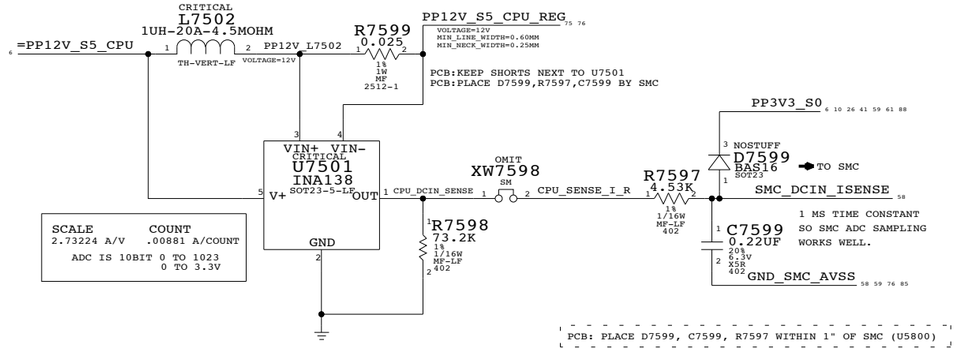
IMVP6 CPU VCore Regulator

SYNC_MASTER=POWER SYNC_DATE=07/08/2005

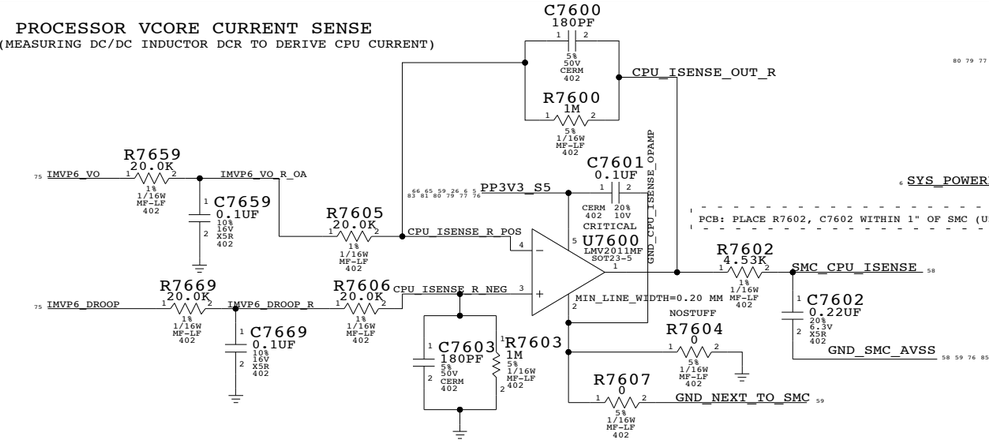
APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 75 OF 111	

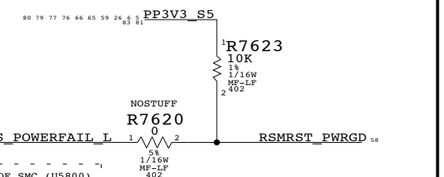
PROCESSOR VCORE CURRENT SENSE
(USING 12V INPUT CURRENT TO DERIVE CPU CURRENT)



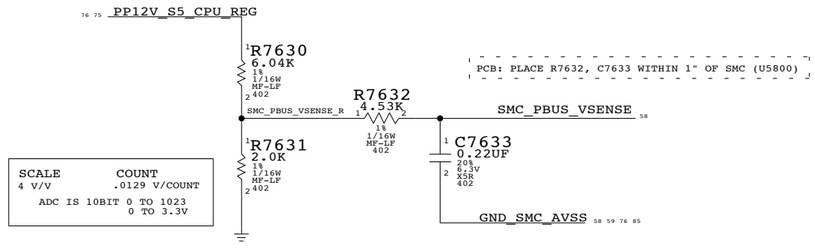
PROCESSOR VCORE CURRENT SENSE
(MEASURING DC/DC INDUCTOR DCR TO DERIVE CPU CURRENT)



SMC PWRGD PULLUP



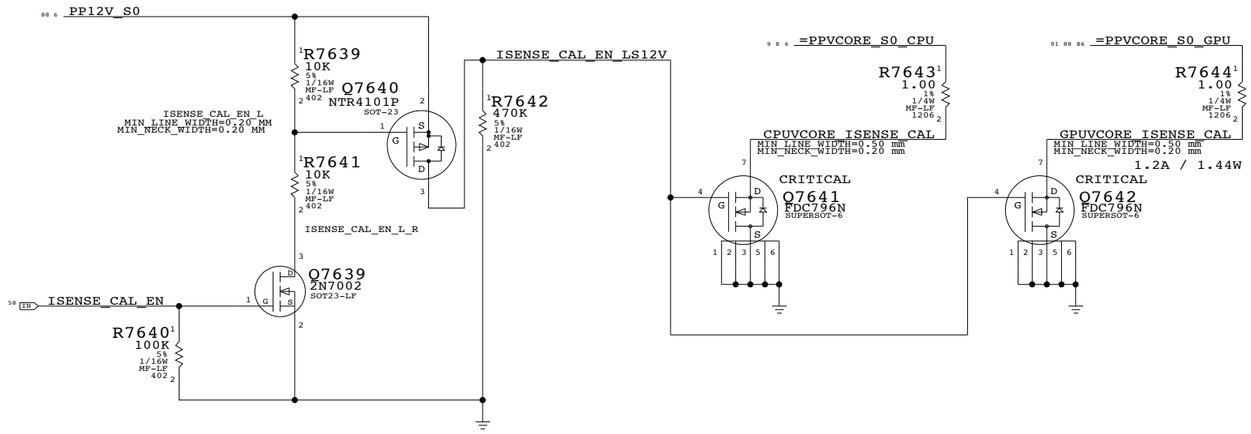
PROCESSOR DCIN VOLTAGE SENSE
(SCALING 12V INPUT VOLTAGE TO SMC)



PROCESSOR VCORE SENSE

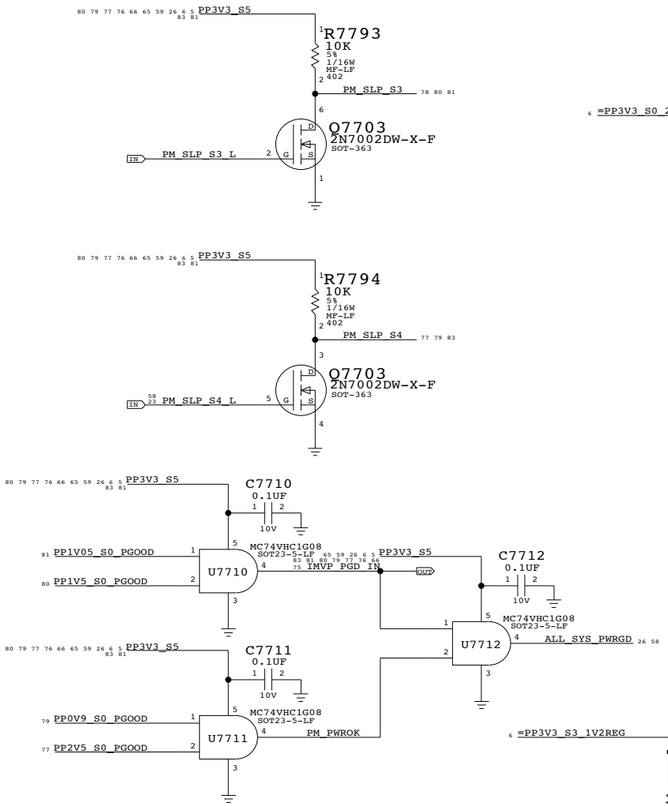
Current Sense Calibration Circuit

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

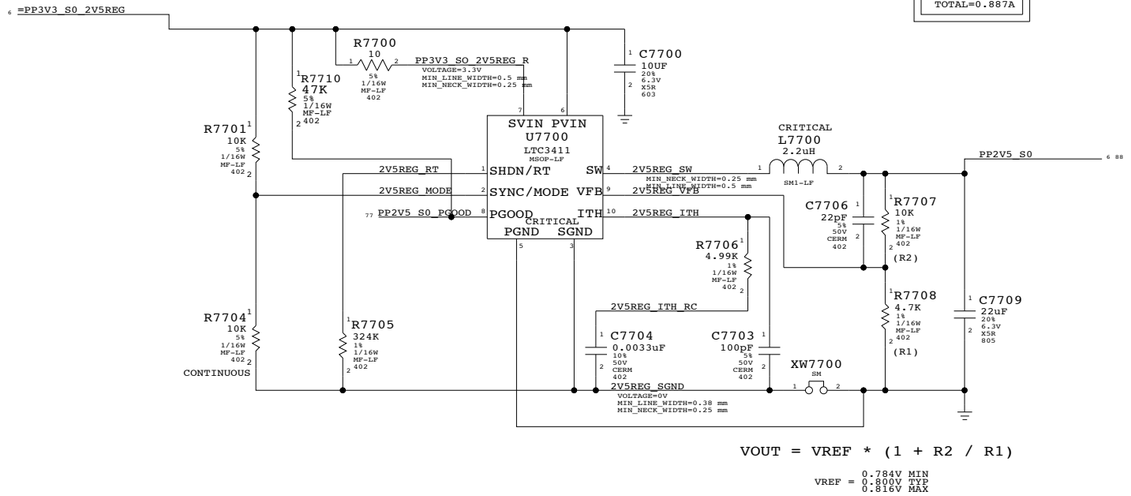


CPU SENSE CIRCUITRIES		
SYNC_MASTER=(MASTER)	SYNC_DATE=(MASTER)	

APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	051-6949	09
	SCALE NONE	SHT 76 OF 111	



2.5V S0 Regulator

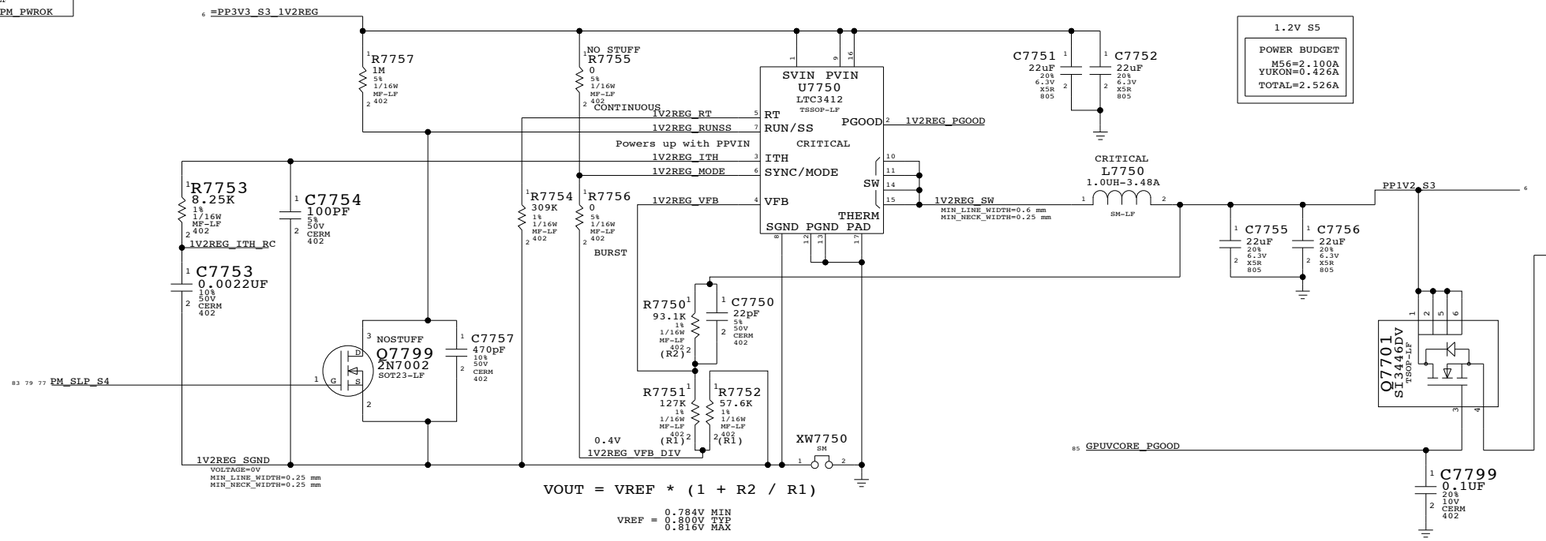


VOUT = VREF * (1 + R2 / R1)

VREF = 0.784V MIN
0.800V TYP
0.816V MAX

2.5V S0 POWER BUDGET	
NB	0.142A
M56	0.745A
TOTAL	0.887A

1.2V S3 REGULATOR / 1.2V S0 FET



VOUT = VREF * (1 + R2 / R1)

VREF = 0.784V MIN
0.800V TYP
0.816V MAX

1.2V S5 POWER BUDGET	
M56	2.100A
YUKON	0.426A
TOTAL	2.526A

2.5V & 1.2V GRAPHICS REGULATORS

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

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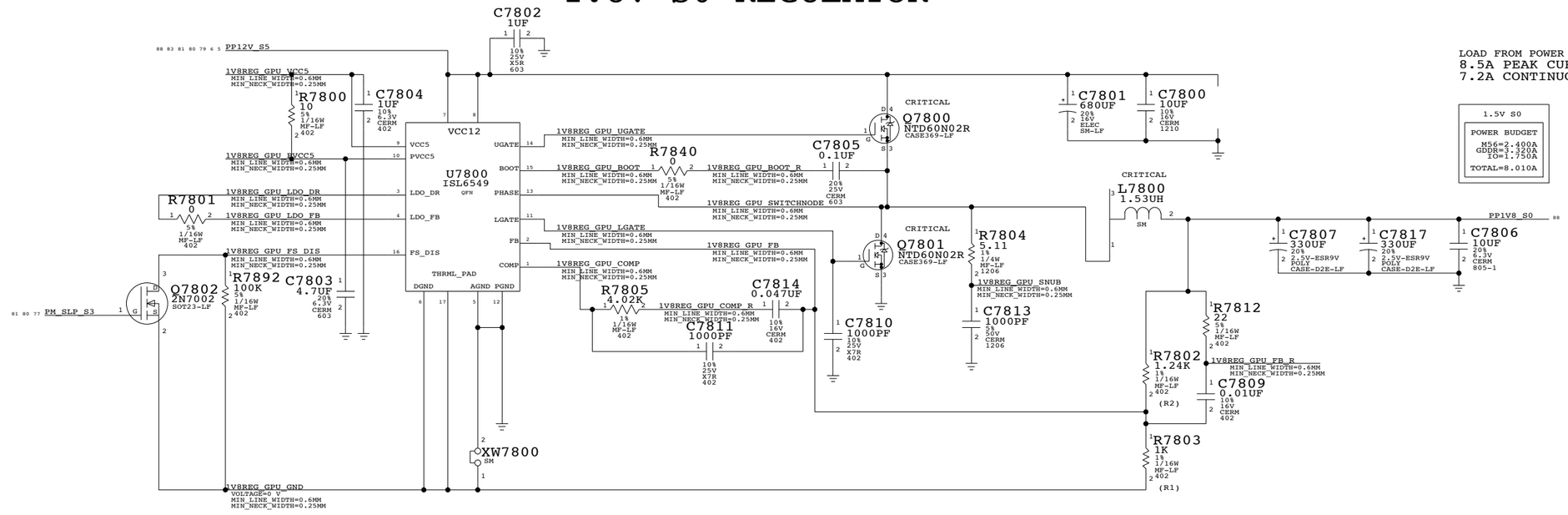
PAGE_NOBORDERTRUE

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=3.930A
IO=1.750A

TOTAL=8.010A

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

VREF = 0.784V MIN
0.800V TYP
0.816V MAX

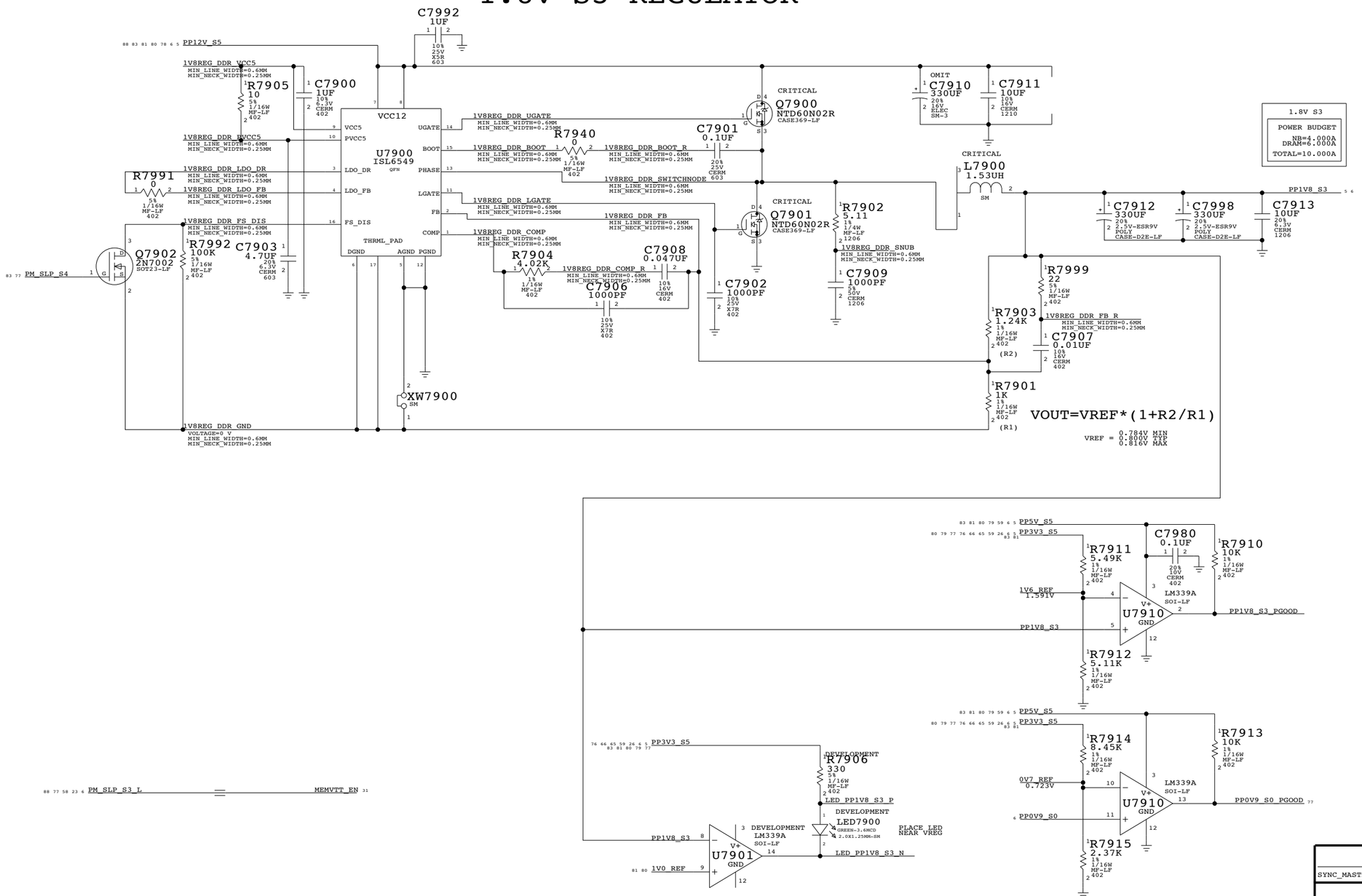
1.8V GDDR REGULATOR

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 78 OF 111	
TRUE		

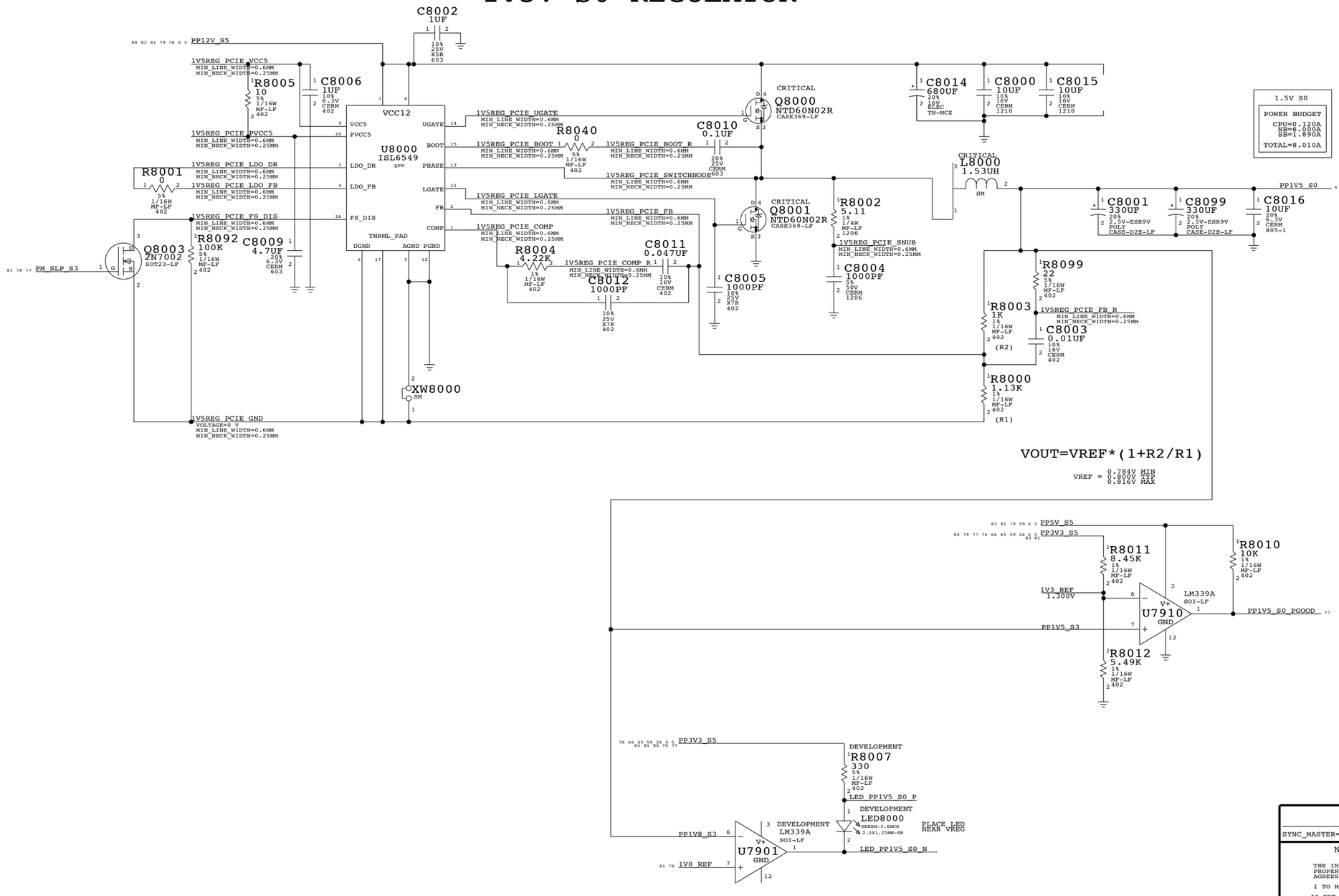
1.8V S3 REGULATOR



APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 79 OF 111	

1.5V S0 REGULATOR



1.5V Vreg

SYNC_MASTER=FINO-PC SYNC_DATE=05/18/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09
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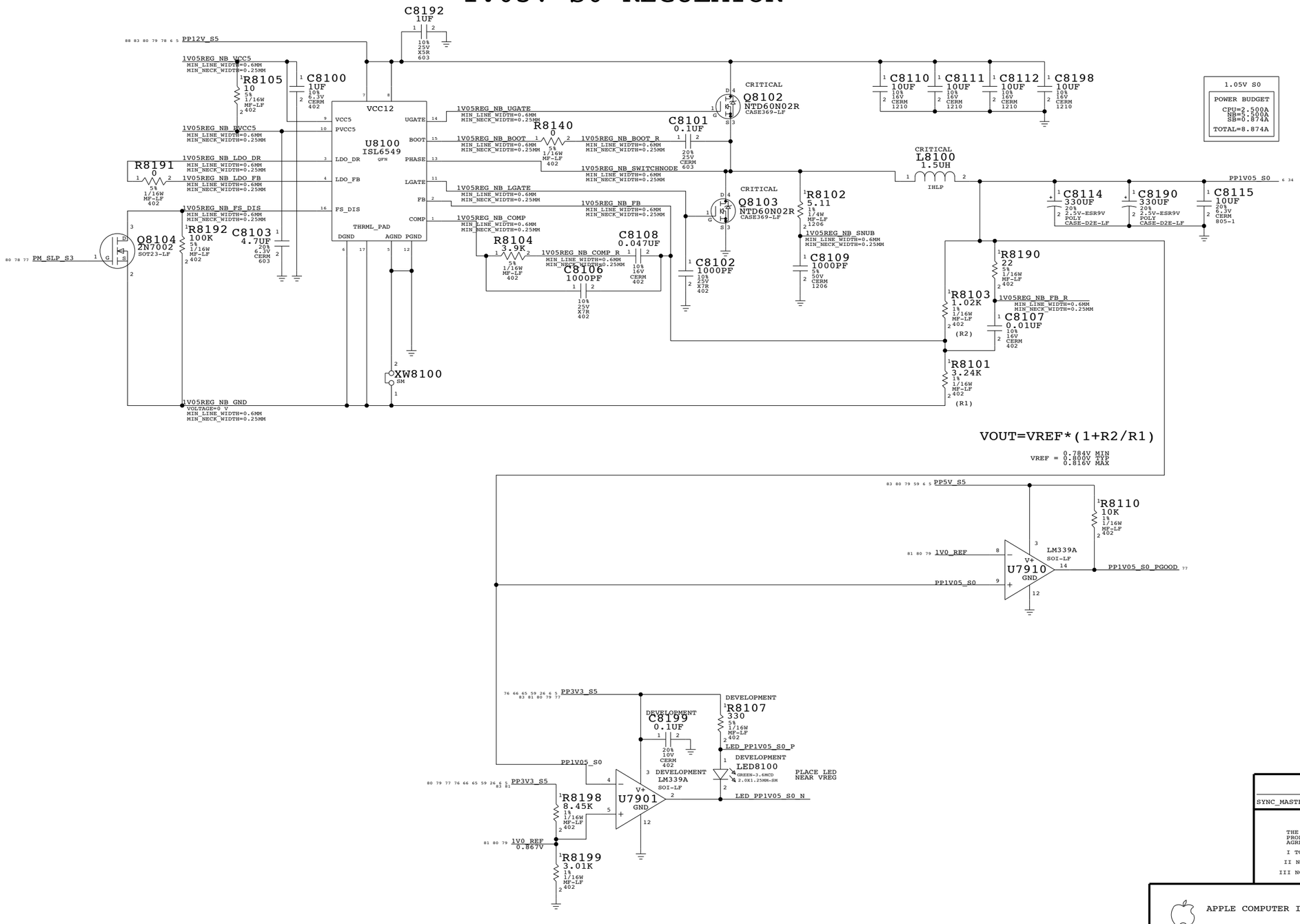
1.05V S0 REGULATOR



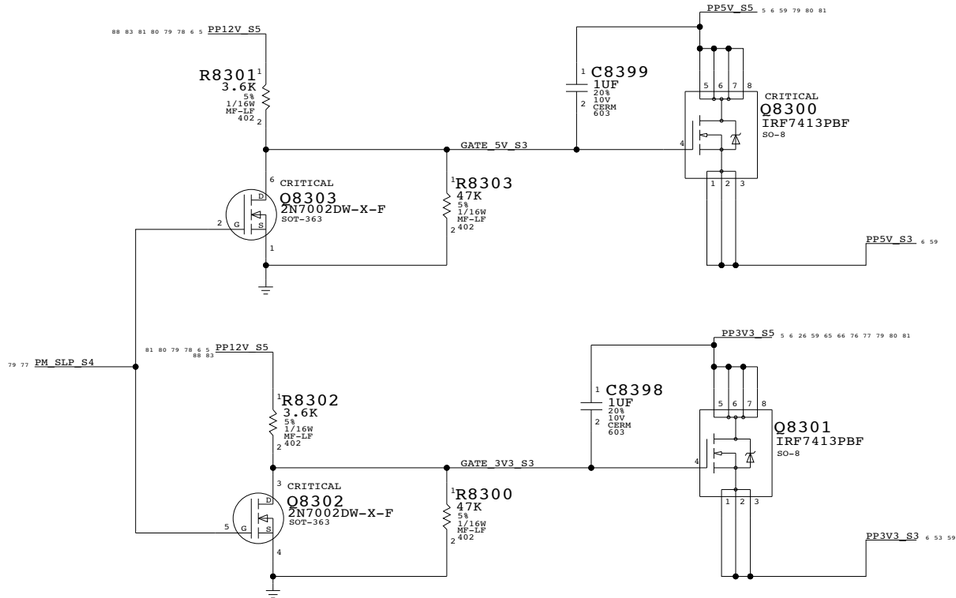
1.05V VREG

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

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09

SCALE: NONE SHT 81 OF 111



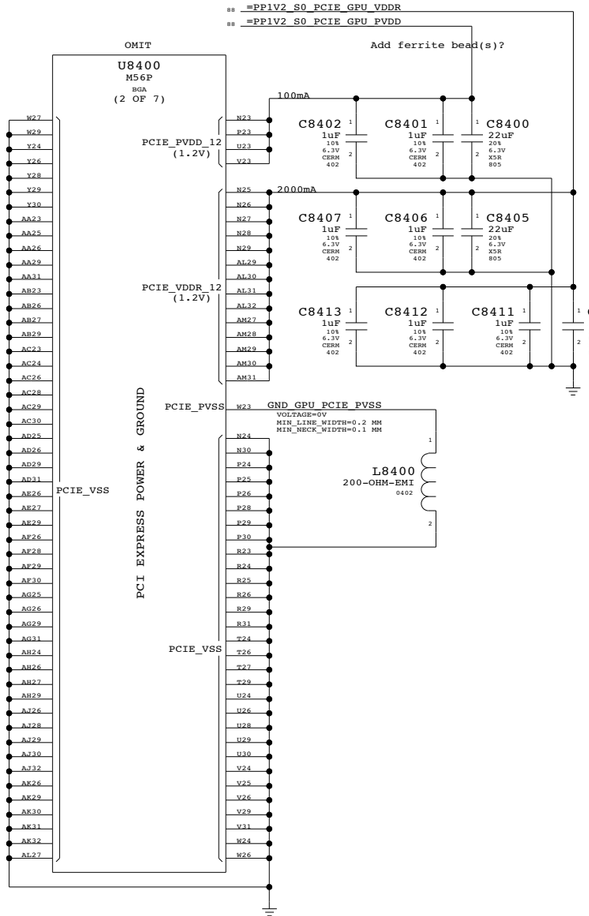
5V & 3.3V Fets

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

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09

SCALE: NONE SHT 83 OF 111



OMIT

U8400
M56P
BGA
(1 OF 7)

PCI-EXPRESS BUS INTERFACE

13 IN	PEG_R2D_C_P<15>	C8420	0.1uF	PEG_R2D_P<0>	AJ31	PCIE_RX0P	PCIE_TX0P	AK27	PEG_D2R_C_P<0>	C8455	0.1uF	13 PEG_D2R_P<15>	OUT
13 IN	PEG_R2D_C_N<15>	C8421	0.1uF	PEG_R2D_N<0>	AH31	PCIE_RX0N	PCIE_TX0N	AJ27	PEG_D2R_C_N<0>	C8456	0.1uF	13 PEG_D2R_N<15>	OUT
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13 IN	PEG_R2D_C_N<14>	C8423	0.1uF	PEG_R2D_N<1>	AG30	PCIE_RX1N	PCIE_TX1N	AH25	PEG_D2R_C_N<1>	C8458	0.1uF	13 PEG_D2R_N<14>	OUT
13 IN	PEG_R2D_C_P<13>	C8424	0.1uF	PEG_R2D_P<2>	AG32	PCIE_RX2P	PCIE_TX2P	AH28	PEG_D2R_C_P<2>	C8459	0.1uF	13 PEG_D2R_P<13>	OUT
13 IN	PEG_R2D_C_N<13>	C8425	0.1uF	PEG_R2D_N<2>	AF32	PCIE_RX2N	PCIE_TX2N	AG28	PEG_D2R_C_N<2>	C8460	0.1uF	13 PEG_D2R_N<13>	OUT
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13 IN	PEG_R2D_C_N<12>	C8427	0.1uF	PEG_R2D_N<3>	AE31	PCIE_RX3N	PCIE_TX3N	AF27	PEG_D2R_C_N<3>	C8462	0.1uF	13 PEG_D2R_N<12>	OUT
13 IN	PEG_R2D_C_P<11>	C8428	0.1uF	PEG_R2D_P<4>	AE30	PCIE_RX4P	PCIE_TX4P	AF25	PEG_D2R_C_P<4>	C8463	0.1uF	13 PEG_D2R_P<11>	OUT
13 IN	PEG_R2D_C_N<11>	C8429	0.1uF	PEG_R2D_N<4>	AD30	PCIE_RX4N	PCIE_TX4N	AE25	PEG_D2R_C_N<4>	C8464	0.1uF	13 PEG_D2R_N<11>	OUT
13 IN	PEG_R2D_C_P<10>	C8430	0.1uF	PEG_R2D_P<5>	AD32	PCIE_RX5P	PCIE_TX5P	AE28	PEG_D2R_C_P<5>	C8465	0.1uF	13 PEG_D2R_P<10>	OUT
13 IN	PEG_R2D_C_N<10>	C8431	0.1uF	PEG_R2D_N<5>	AC32	PCIE_RX5N	PCIE_TX5N	AD28	PEG_D2R_C_N<5>	C8466	0.1uF	13 PEG_D2R_N<10>	OUT
13 IN	PEG_R2D_C_P<9>	C8432	0.1uF	PEG_R2D_P<6>	AC31	PCIE_RX6P	PCIE_TX6P	AD27	PEG_D2R_C_P<6>	C8467	0.1uF	13 PEG_D2R_P<9>	OUT
13 IN	PEG_R2D_C_N<9>	C8433	0.1uF	PEG_R2D_N<6>	AB31	PCIE_RX6N	PCIE_TX6N	AC27	PEG_D2R_C_N<6>	C8468	0.1uF	13 PEG_D2R_N<9>	OUT
13 IN	PEG_R2D_C_P<8>	C8434	0.1uF	PEG_R2D_P<7>	AB30	PCIE_RX7P	PCIE_TX7P	AC25	PEG_D2R_C_P<7>	C8469	0.1uF	13 PEG_D2R_P<8>	OUT
13 IN	PEG_R2D_C_N<8>	C8435	0.1uF	PEG_R2D_N<7>	AA30	PCIE_RX7N	PCIE_TX7N	AB25	PEG_D2R_C_N<7>	C8470	0.1uF	13 PEG_D2R_N<8>	OUT
13 IN	PEG_R2D_C_P<7>	C8436	0.1uF	PEG_R2D_P<8>	AA32	PCIE_RX8P	PCIE_TX8P	AB28	PEG_D2R_C_P<8>	C8471	0.1uF	13 PEG_D2R_P<7>	OUT
13 IN	PEG_R2D_C_N<7>	C8437	0.1uF	PEG_R2D_N<8>	Y32	PCIE_RX8N	PCIE_TX8N	AA28	PEG_D2R_C_N<8>	C8472	0.1uF	13 PEG_D2R_N<7>	OUT
13 IN	PEG_R2D_C_P<6>	C8438	0.1uF	PEG_R2D_P<9>	Y31	PCIE_RX9P	PCIE_TX9P	AA27	PEG_D2R_C_P<9>	C8473	0.1uF	13 PEG_D2R_P<6>	OUT
13 IN	PEG_R2D_C_N<6>	C8439	0.1uF	PEG_R2D_N<9>	W31	PCIE_RX9N	PCIE_TX9N	Y27	PEG_D2R_C_N<9>	C8474	0.1uF	13 PEG_D2R_N<6>	OUT
13 IN	PEG_R2D_C_P<5>	C8440	0.1uF	PEG_R2D_P<10>	W30	PCIE_RX10P	PCIE_TX10P	Y25	PEG_D2R_C_P<10>	C8475	0.1uF	13 PEG_D2R_P<5>	OUT
13 IN	PEG_R2D_C_N<5>	C8441	0.1uF	PEG_R2D_N<10>	V30	PCIE_RX10N	PCIE_TX10N	W25	PEG_D2R_C_N<10>	C8476	0.1uF	13 PEG_D2R_N<5>	OUT
13 IN	PEG_R2D_C_P<4>	C8442	0.1uF	PEG_R2D_P<11>	V32	PCIE_RX11P	PCIE_TX11P	W28	PEG_D2R_C_P<11>	C8477	0.1uF	13 PEG_D2R_P<4>	OUT
13 IN	PEG_R2D_C_N<4>	C8443	0.1uF	PEG_R2D_N<11>	U32	PCIE_RX11N	PCIE_TX11N	V28	PEG_D2R_C_N<11>	C8478	0.1uF	13 PEG_D2R_N<4>	OUT
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13 IN	PEG_R2D_C_N<3>	C8445	0.1uF	PEG_R2D_N<12>	T31	PCIE_RX12N	PCIE_TX12N	U27	PEG_D2R_C_N<12>	C8480	0.1uF	13 PEG_D2R_N<3>	OUT
13 IN	PEG_R2D_C_P<2>	C8446	0.1uF	PEG_R2D_P<13>	T30	PCIE_RX13P	PCIE_TX13P	U25	PEG_D2R_C_P<13>	C8481	0.1uF	13 PEG_D2R_P<2>	OUT
13 IN	PEG_R2D_C_N<2>	C8447	0.1uF	PEG_R2D_N<13>	R30	PCIE_RX13N	PCIE_TX13N	T25	PEG_D2R_C_N<13>	C8482	0.1uF	13 PEG_D2R_N<2>	OUT
13 IN	PEG_R2D_C_P<1>	C8448	0.1uF	PEG_R2D_P<14>	R32	PCIE_RX14P	PCIE_TX14P	T28	PEG_D2R_C_P<14>	C8483	0.1uF	13 PEG_D2R_P<1>	OUT
13 IN	PEG_R2D_C_N<1>	C8449	0.1uF	PEG_R2D_N<14>	P32	PCIE_RX14N	PCIE_TX14N	R28	PEG_D2R_C_N<14>	C8484	0.1uF	13 PEG_D2R_N<1>	OUT
13 IN	PEG_R2D_C_P<0>	C8450	0.1uF	PEG_R2D_P<15>	P31	PCIE_RX15P	PCIE_TX15P	R27	PEG_D2R_C_P<15>	C8485	0.1uF	13 PEG_D2R_P<0>	OUT
13 IN	PEG_R2D_C_N<0>	C8451	0.1uF	PEG_R2D_N<15>	N31	PCIE_RX15N	PCIE_TX15N	P27	PEG_D2R_C_N<15>	C8486	0.1uF	13 PEG_D2R_N<0>	OUT
IN	GPU_CLK100M_PCIE_P				AL28	PCIE_REFCLKP							
IN	GPU_CLK100M_PCIE_N				AK28	PCIE_REFCLKN							
6 IN	PEG_RESET_L				AG24	PERST*							
					AF24	PERST*_MASK	PCIE_CALRP	AD24	GPU_PCIE_CALRP				
							PCIE_CALRN	AE24	GPU_PCIE_CALRN				
				NC	AA24	PCIE_TEST	PCIE_CALI	AB24	GPU_PCIE_CALI				

=PPVIO_S0_PCIE 88

R8495 2.0K 1% 1/16W MF-LF 402

R8497 1.47K 1% 1/16W MF-LF 402

R8496 562 1% 1/16W MF-LF 402

ATI M56 PCI-E

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

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D	051-6949	09
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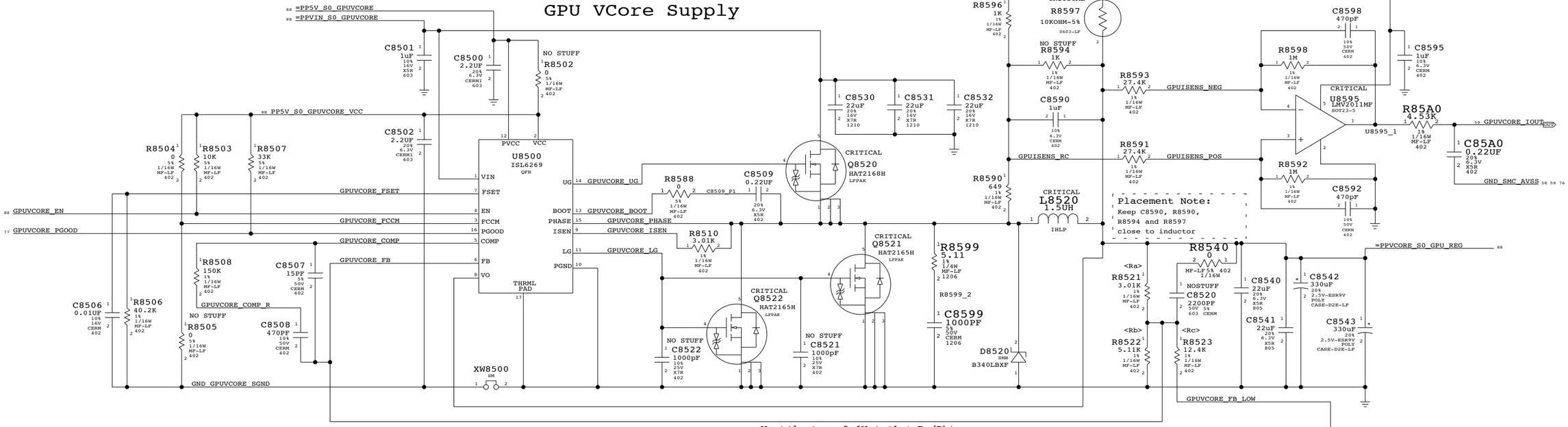
GPU VCore Supply

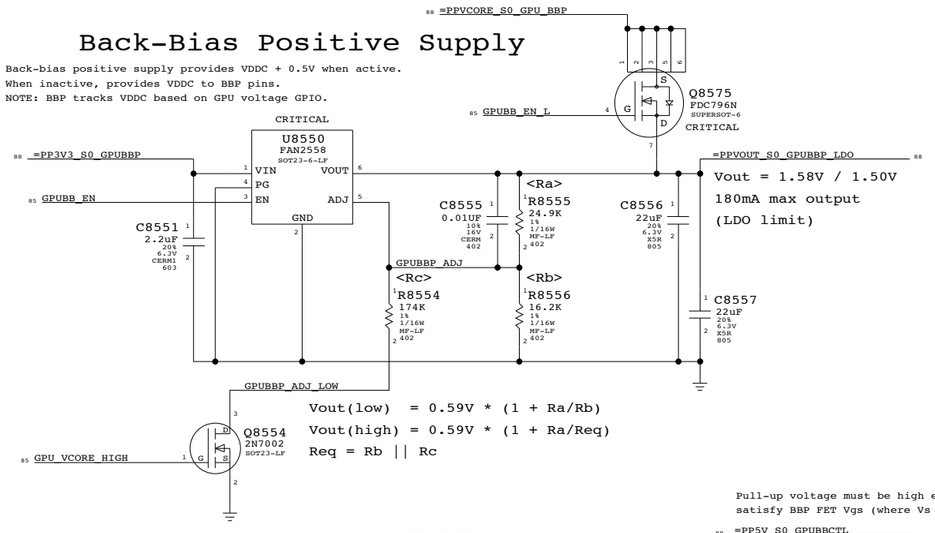


GPU VCore Current Sense

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

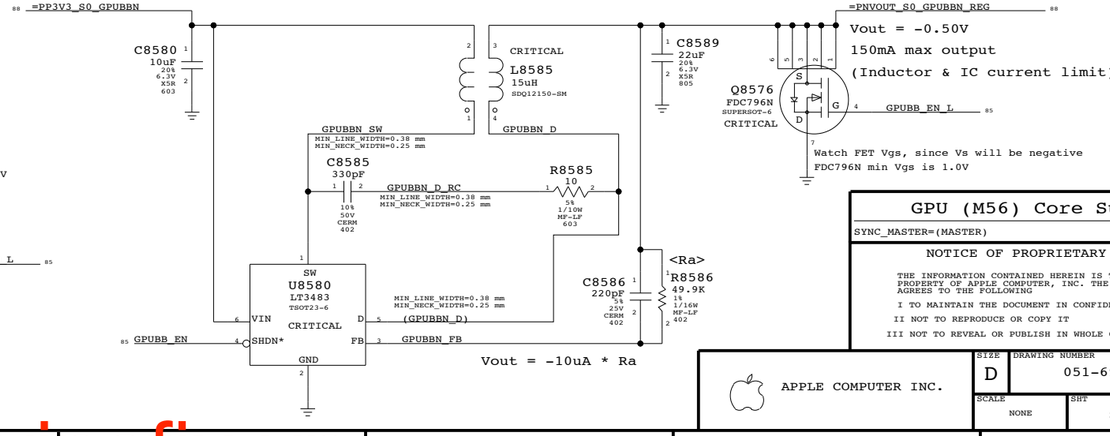
Back-Bias Positive Supply

Back-bias positive supply provides VDDC + 0.5V when active.
When inactive, provides VDDC to BBP pins.
NOTE: BBP tracks VDDC based on GPU voltage GPIO.

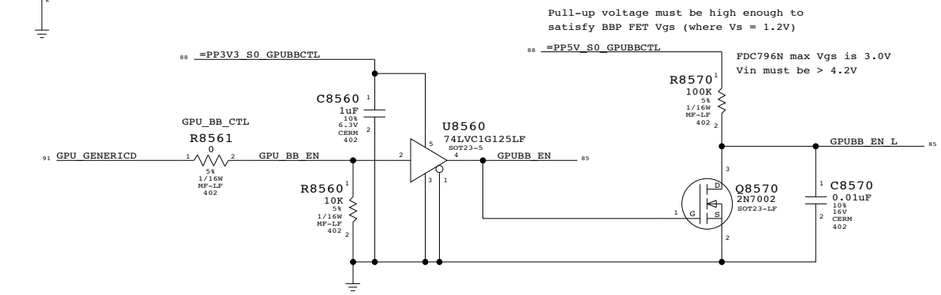


Back-Bias Negative Supply

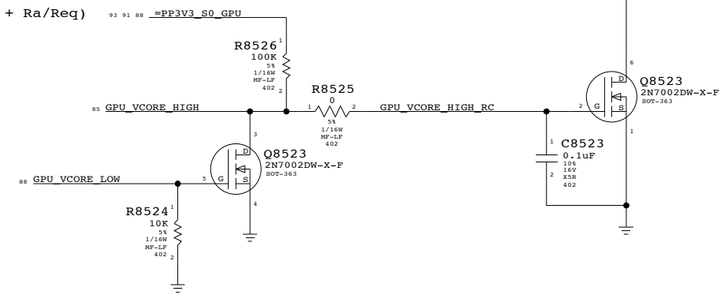
Back-bias negative supply provides VSS - 0.5V when active.
When inactive, provides VSS to BBN pins.



Pull-up voltage must be high enough to satisfy BBP FET Vgs (where Vs = 1.2V)



Back-Bias Positive Supply



GPU (M56) Core Supplies

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

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SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT: 85	OF: 111

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)

=PPBB_S0_GPU 88 — 100mA (Preliminary)
C8690 22uF 20% 6.3V X5R 805
C8691 1uF 10% 6.3V CERM 402
C8692 0.1uF 10% 16V X5R 402

=PPVCORE_S0_GPU 91 88 76 — 14.2A @ 445/452MHz Core/Mem Clk for VDDC+VDDCI
C8600 22uF 20% 6.3V X5R 805
C8601 22uF 20% 6.3V X5R 805
C8604 C8605 C8606 C8607 C8608 C8609 C8610 1uF 10% 6.3V CERM 402
C8611 C8612 C8613 C8614 C8615 C8616 1uF 10% 6.3V CERM 402
R8630 0 5% 1/10W MF-LF 603
PPVCORE_S0_GPU_VDDCI
VOLTAGE=1.2V
MIN_LINE_WIDTH=0.5 MM
MIN_NECK_WIDTH=0.2 MM
C8630 22uF 20% 6.3V X5R 805
C8631 C8632 C8633 C8634 1uF 10% 6.3V CERM 402

=PP1V8R2V0_S0_FB_GPU 88 87 — 2.0A @ 500MHz 1.8V GDDR3
C8650 22uF 20% 6.3V X5R 805
C8651 22uF 20% 6.3V X5R 805
C8652 22uF 20% 6.3V X5R 805
C8653 22uF 20% 6.3V X5R 805
C8655 C8656 C8657 C8658 C8659 C8660 C8661 C8662 C8663 C8664 C8665 C8666 C8667 C8668 C8669 C8670 C8671 C8672 C8673 C8674 C8675 C8676 C8677 C8678 C8679 C8680 C8681 C8682 C8683 1uF 10% 6.3V CERM 402

U8400
M56P
BGA
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OMIT

MEMORY & CORE POWER / GROUND

BBP: K18 M23 V10 AC14
VDDC (1.0V/1.2V): P14 P18 P19 R15 R17 R18 R19 T16 T17 T18 U15 U16 U17 V14 V15 V16 V18 W14 W15 W19 AC11 AC12 AD11
VDDCI (1.0V/1.2V): K14 P16 T14 T23 U19 W10 W17
VDDR1 (1.8V/2.0V): A3 A9 A12 A15 A18 A21 A24 A30 C1 C32 F32 H13 H19 J1 J10 J11 J13 J18 J19 J20 J32 K11 K13 K19 K20 K21 K24 L23 L24 L32 M1 M10 N9 N10 P8 P9 P10 R1 R9 V1 Y8 Y9 Y10 AA1
VSS: K23 A2 A8 A11 A13 A16 A19 A22 A25 A31 B1 B32 C4 C5 C6 C9 C10 C15 C18 C20 C21 C24 C27 D11 D30 E5 E8 E9 E12 E13 E16 E19 E25 E28 E30 E32 F3 F6 F10 F13 F15 F16
VSS: F18 F19 F21 F22 F24 F27 F30 G13 G16 G19 G20 G21 G22 G25 H1 H5 H7 H16 H20 H21 H28 H32 J3 J6 J9 J12 J16 J21 J24 J28 J30 K10 K12 K16 K17 K27 K30 L1 L6 L7 L29 M3
BBN: K15 R10 Y23 AC17
VSS: M6 M7 M8 M9 M24 M28 M32 N3 N7 N8 P1 P5 P6 P7 P15 P17 R3 R6 R14 R16 T10 T15 T19 U1 U5 U6 U7 U8 U9 U10 U14 U18 V3 V6 V17 V19 W16 W18 Y1 Y5 Y6 Y7 AA4 AA6 AC9 AC10 AD6 AD7 AD8 AD9 AD10 AD13 AD14 AD15 AD16 AD17 AE8 AE14 AE15 AE16 AE17 AF14 AF16 AG11 AG16 AG23 AH10 AH11 AH16 AJ10 AK16 AL1 AL13 AM2 AM13

C8697 0.1uF 10% 16V X5R 402
C8696 1uF 10% 6.3V CERM 402
C8695 22uF 20% 6.3V X5R 805
100mA (Preliminary) — =PNBB_S0_GPU 88

ATI M56 Core Power

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09

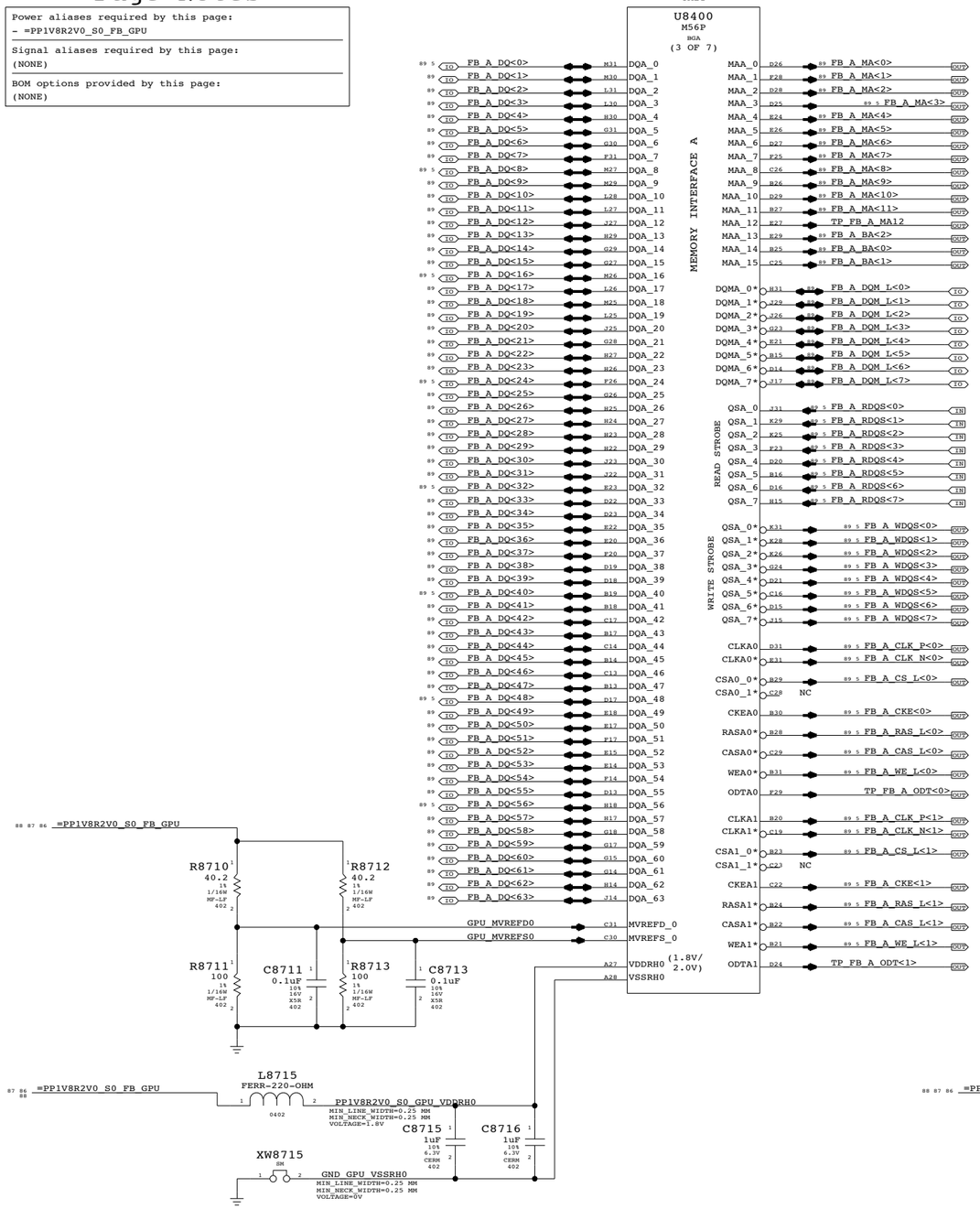
SCALE	SHT	OF
NONE	86	111

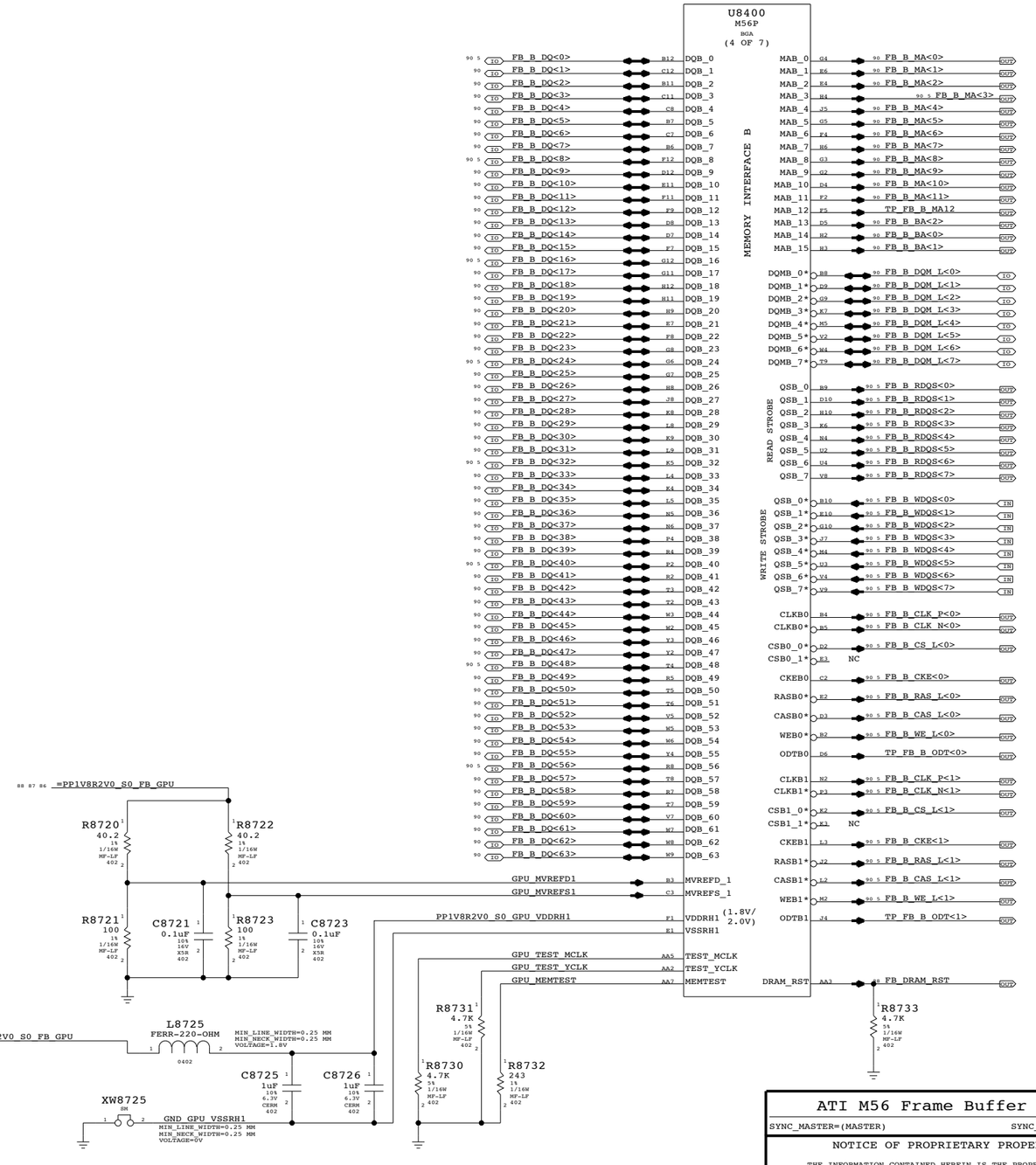
Page Notes

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	051-6949	09
SCALE: NONE	SHT 87 OF 111	

"S0" GPU RAILS

ONLY ON IN RUN

59 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 76 86 91
=PPVCORE_S0_GPU_BBP 85

85 PP5V_S0_GPUVCORE_VCC
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.125MM
VOLTAGE=5V
10 1 R8800 2 603 MF-LF 5% 1/10W
=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=0.5MM
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=0.5MM
MIN_NECK_WIDTH=0.125MM
VOLTAGE=0V
=PNVOUT_S0_GPUBBN_REG 85
=PNBB_S0_GPU 86

76 61 59 41 26 10 6 PP3V3_S0
=PP3V3_S0_GPUBBP 85
=PP3V3_S0_GPUBBCTL 85
=PP3V3_DDC_DVI 97
=PP3V3_S0_LCD 94
=PP3V3_S0_GPU_VDDR3 88 91
=PP3V3_S0_GPU 85 91 93
=PP3V3_S0_GPUBBN 85
=PP3V3_S0_GPU_CLOCKS
=PP3V3_DDC_LCD 94
=PP3V3_GPU 94

77 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 6 5 PP12V_S5
=PPVIN_S0_GPUVCORE 85

76 6 PP12V_S0
=PP12V_GPU 94

97 94 75 6 PP5V_S0
=PP5V_S0_GPUBBCTL 85
=PP5V_S0_DVI_DDC 97
=PP5V_S0_GPUISENS 85

85 GPUVCORE_EN
33 1 R8801 2 402 MF-LF 5% 1/16W
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 R8813 2 402 MF-LF 5% 1/16W
GPIO 0 = TRANSMITTER POWER SAVINGS ENABLE
INTERNAL PULL DOWN, ATI RECOMMENDS HIGH

91 GPU_GPIO_1
10K 1 R8802 2 402 MF-LF 5% 1/16W
GPIO 1 = TRANSMITTER DE-EMPHASIS ENABLE
INTERNAL PULL DOWN, ATI RECOMMENDS HIGH

91 GPU_GPIO_2
NOSTUFF 10K 1 R8803 2 402 MF-LF 5% 1/16W

91 GPU_GPIO_3
NOSTUFF 10K 1 R8804 2 402 MF-LF 5% 1/16W

91 GPU_GPIO_4
NOSTUFF 10K 1 R8805 2 402 MF-LF 5% 1/16W
GPIO 4 = DEBUG SIGNALS OUT

91 GPU_GPIO_5
10K 1 R8806 2 402 MF-LF 5% 1/16W

91 GPU_GPIO_6
NOSTUFF 10K 1 R8807 2 402 MF-LF 5% 1/16W

TP_GPU_GPIO_7
MAKE_BASE=TRUE
GPU_GPIO_7 91

91 GPU_GPIO_8
NOSTUFF 10K 1 R8808 2 402 MF-LF 5% 1/16W

NC_GPU_GPIO_10
MAKE_BASE=TRUE
GPU_GPIO_10 91

91 GPU_GPIO_9
NOSTUFF 10K 1 R8809 2 402 MF-LF 5% 1/16W

91 GPU_GPIO_13
NOSTUFF 10K 1 R8812 2 402 MF-LF 5% 1/16W
ATI_FB_256M

91 GPU_GPIO_12
10K 1 R8810 2 402 MF-LF 5% 1/16W

91 GPU_GPIO_11
NOSTUFF 10K 1 R8811 2 402 MF-LF 5% 1/16W
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 R8830 2 402 MF-LF 5% 1/16W

ATI_FB_HYNIX
91 GPU_GPIO_27
10K 1 R8831 2 402 MF-LF 5% 1/16W

91 GPU_GPIO_28
10K 1 R8832 2 402 MF-LF 5% 1/16W

TMDS_PANEL
91 GPU_GPIO_29
10K 1 R8833 2 402 MF-LF 5% 1/16W

85 GPU_VCORE_LOW
MAKE_BASE=TRUE
GPU_GPIO_15 91
10K 1 R8850 2 402 MF-LF 5% 1/16W
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

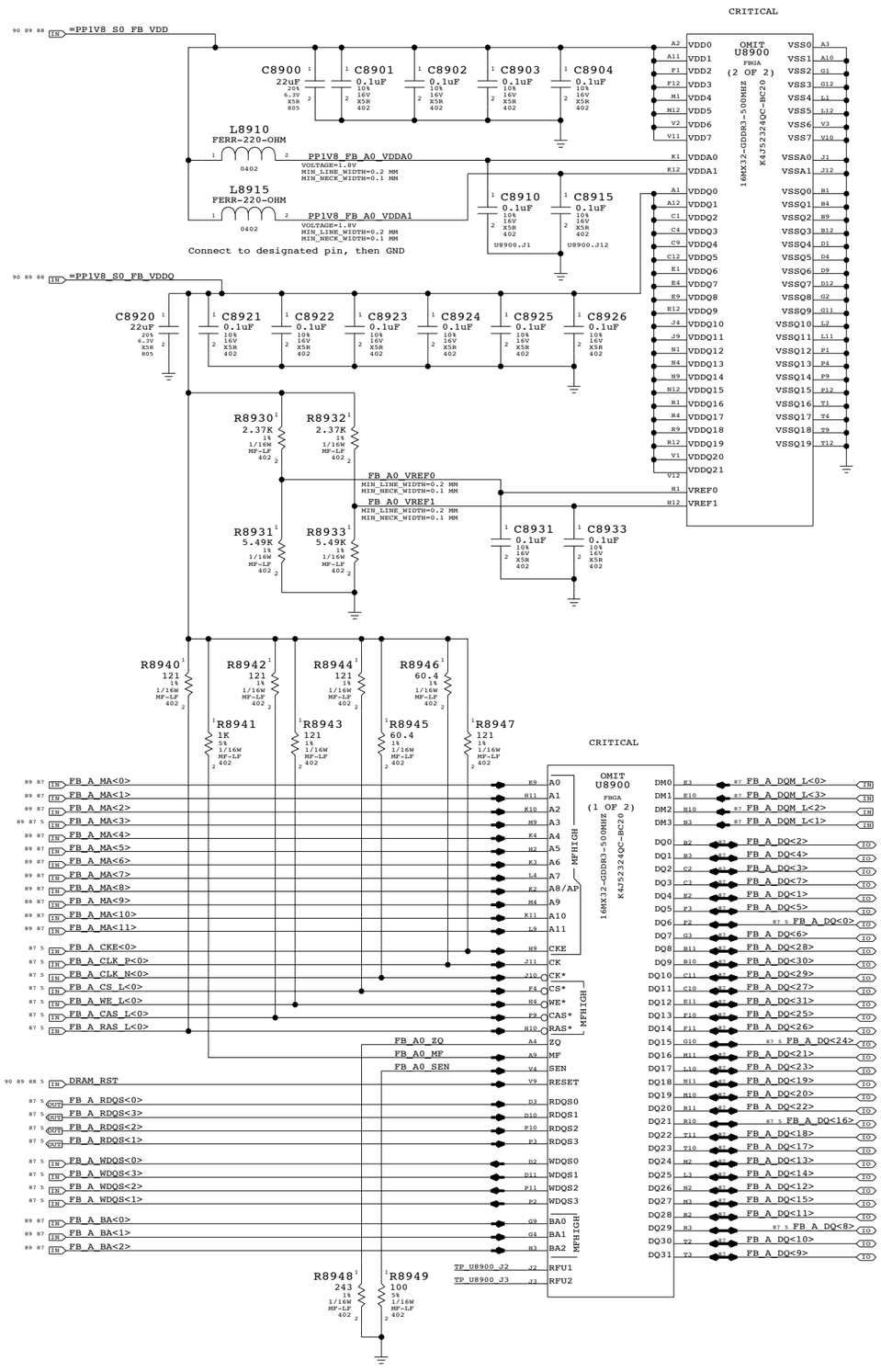
TP_GPU_TV_COMP
MAKE_BASE=TRUE
GPU_TV_COMP 93

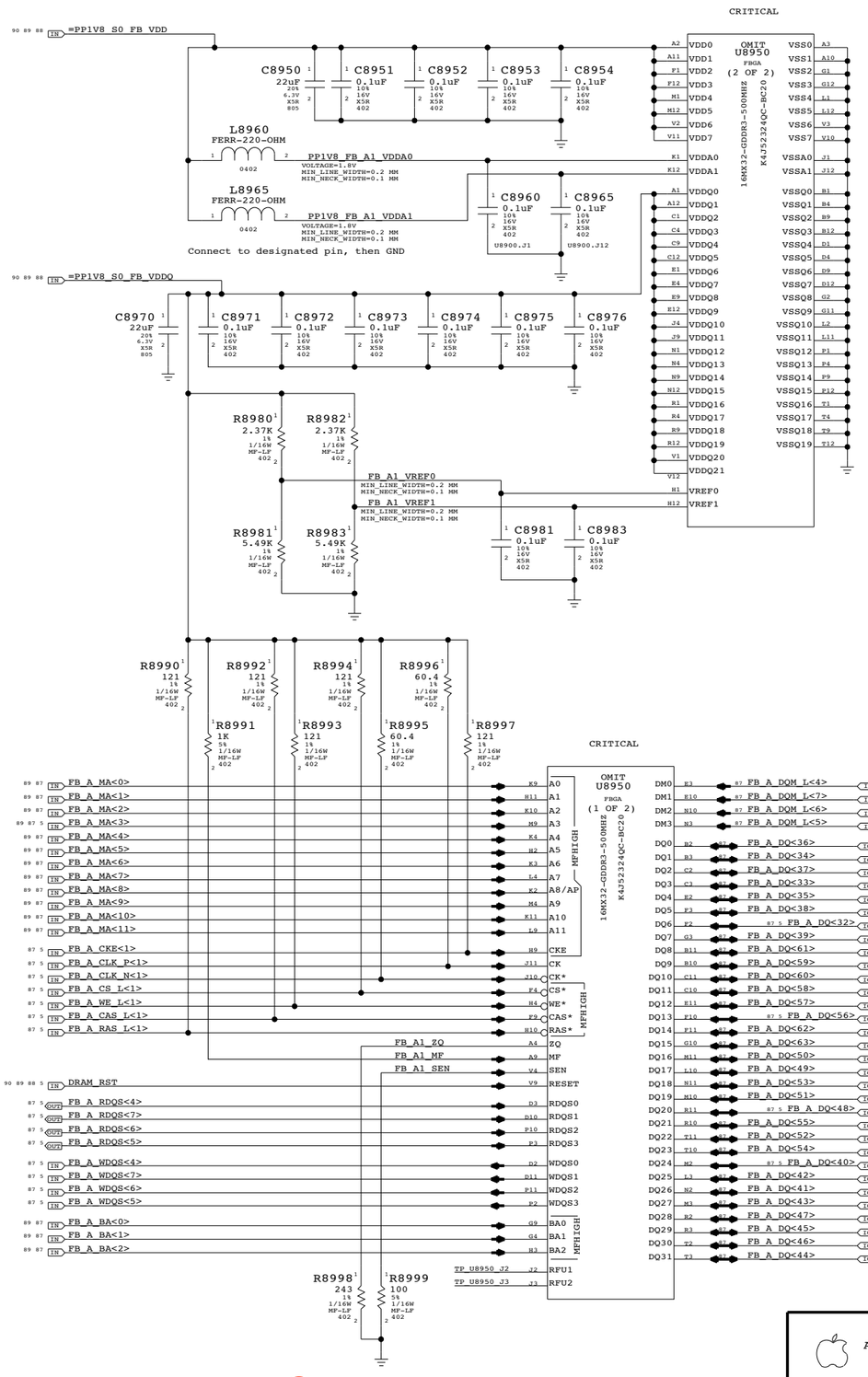
TP_GPU_TV_C
MAKE_BASE=TRUE
GPU_TV_C 93

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





Page Notes

Power aliases required by this page:
- =PP1V8_S0_FB_VDD
- =PP1V8_S0_FB_VDDQ

Signal aliases required by this page:
(NONE)

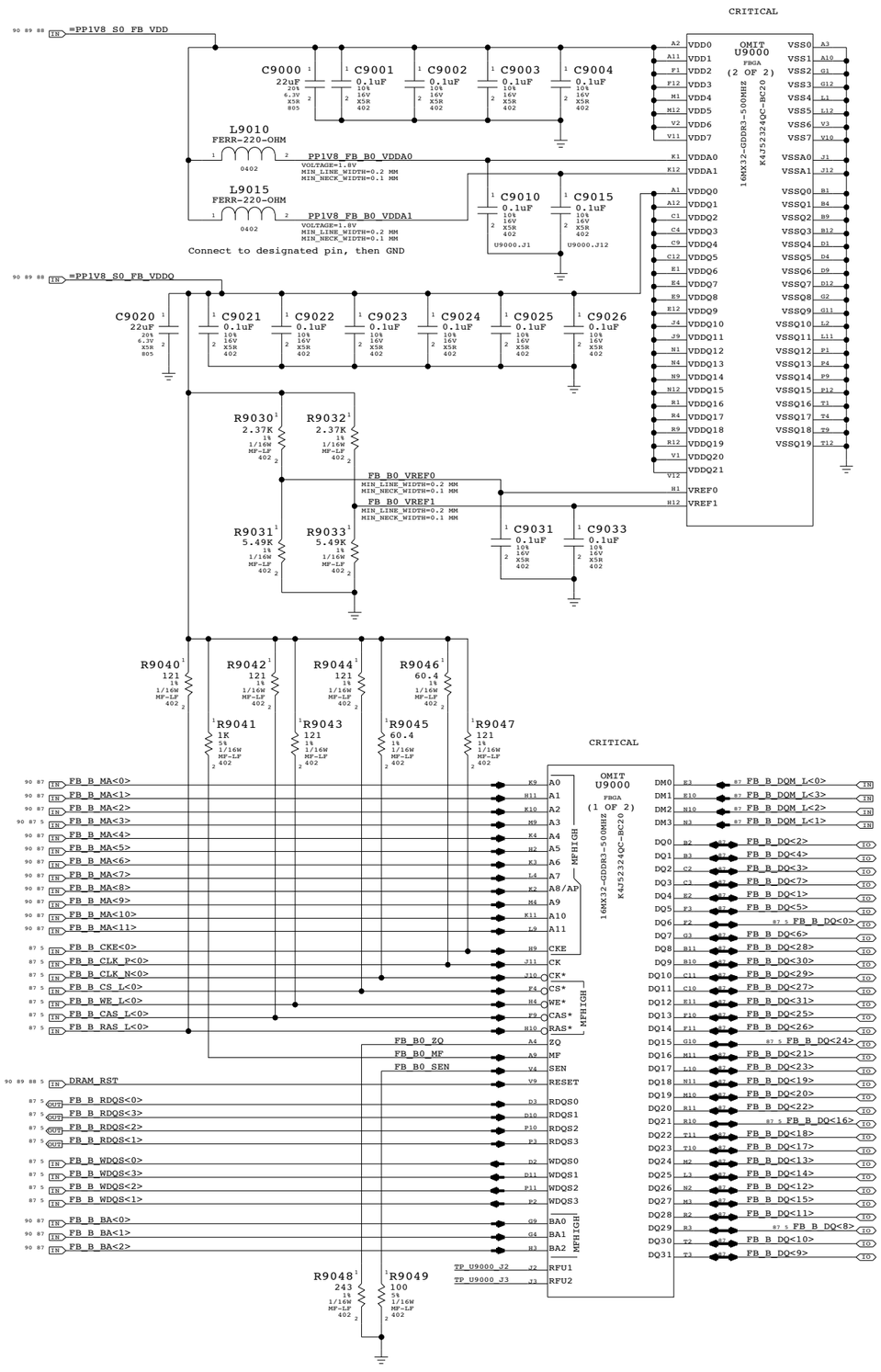
BOM options provided by this page:
(NONE)

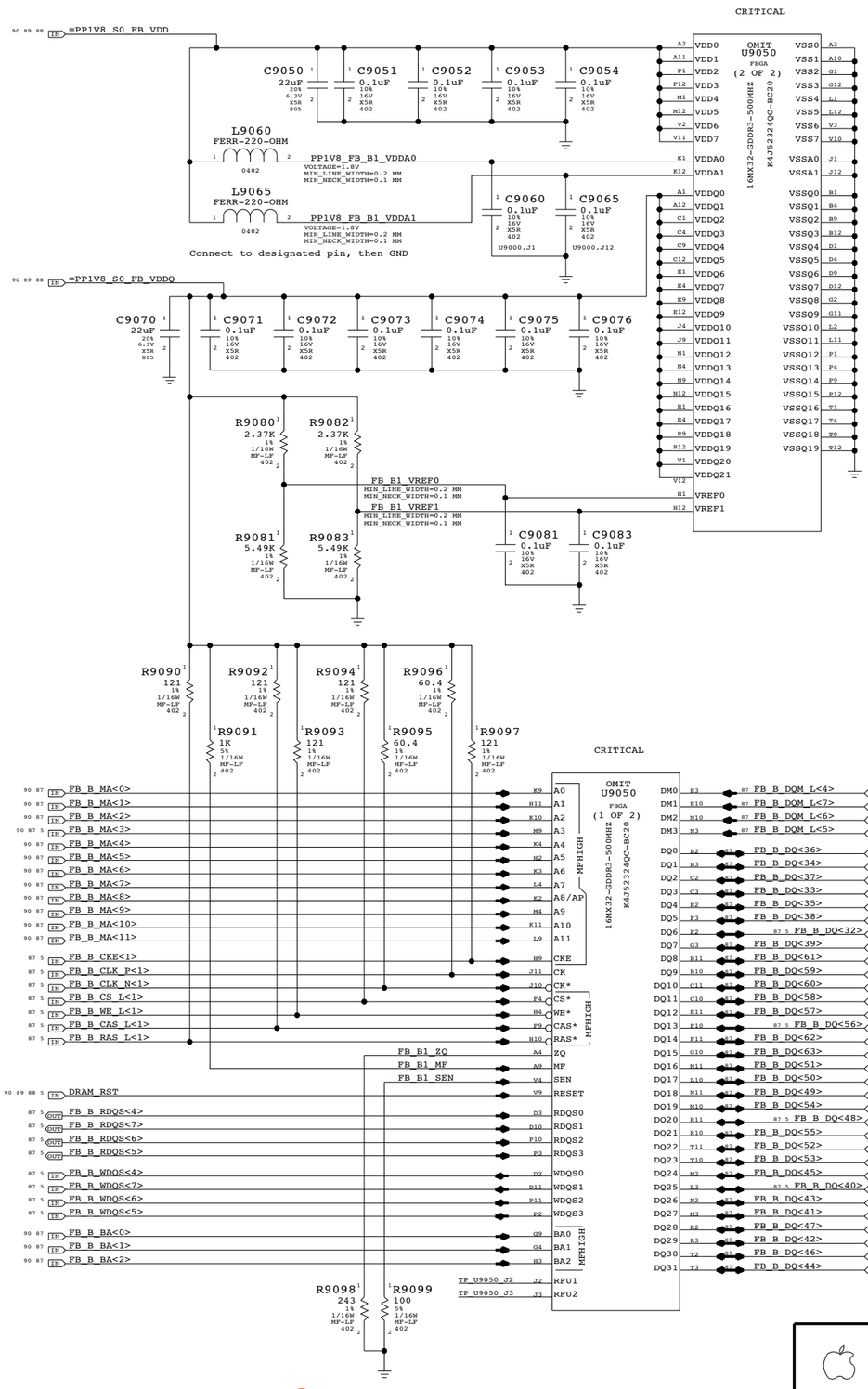
GDDR3 Frame Buffer A

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 89 OF 111	





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.

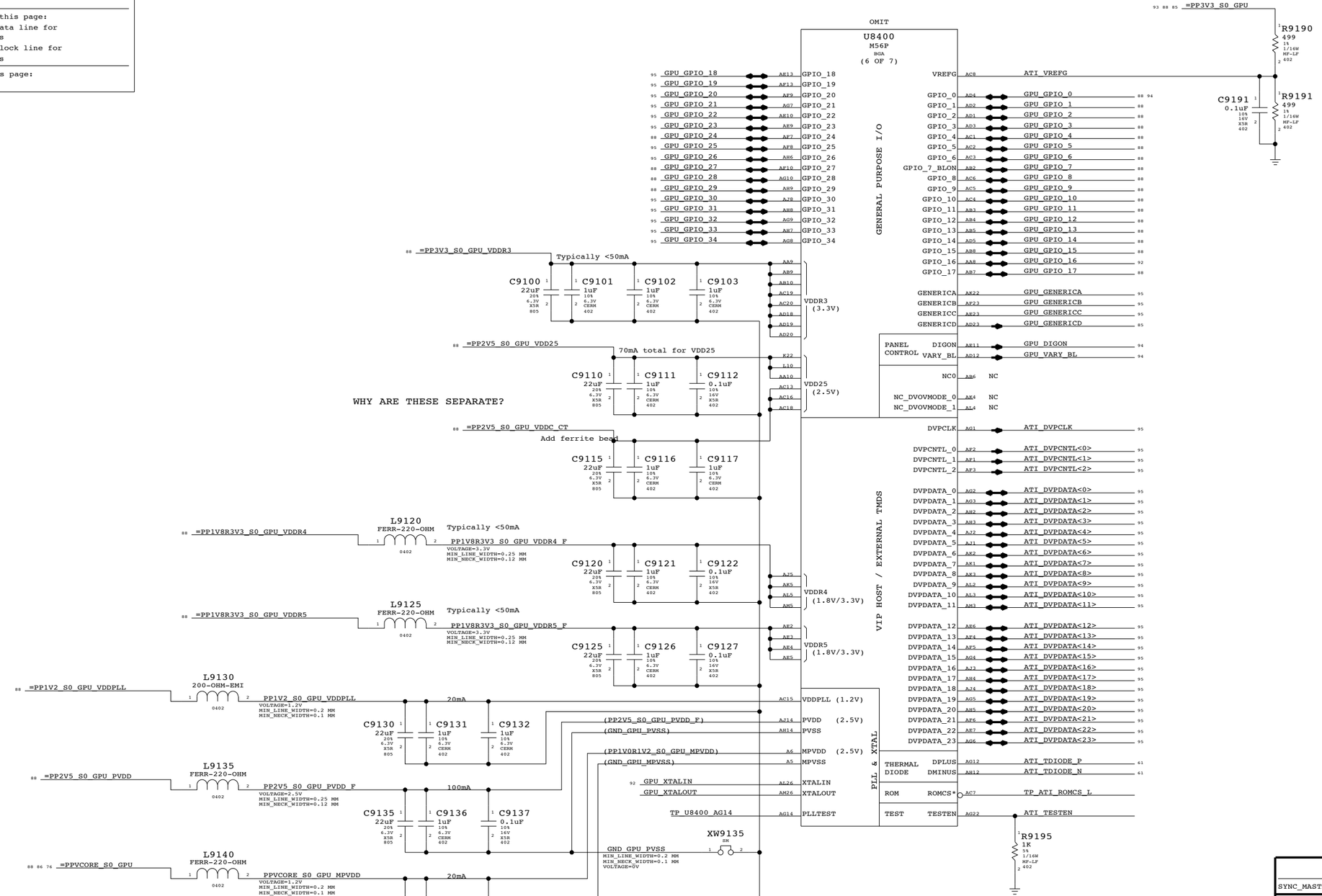
SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 90 OF 111	

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)



ATI M56 GPIO/DVO/Misc

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09

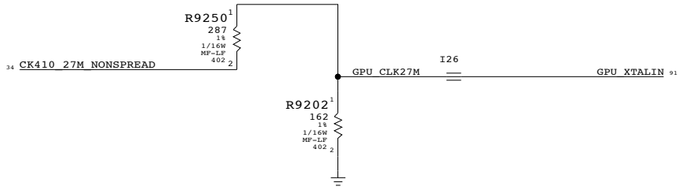
SCALE	SHT	OF
NONE	91	111

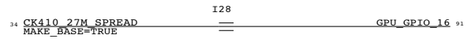
Page Notes

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	051-6949	09

SCALE	SHT	OF
NONE	92	111

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
XW9300 SM — GND_GPU_TPVSS — MIN_LINE_WIDTH=0.2 MM, MIN_NECK_WIDTH=0.1 MM, VOLTAGE=0V
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
XW9305 SM — GND_GPU_TXVSSR — MIN_LINE_WIDTH=0.3 MM, MIN_NECK_WIDTH=0.12 MM, VOLTAGE=0V
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
XW9310 SM — GND_GPU_AVSSN — MIN_LINE_WIDTH=0.25 MM, MIN_NECK_WIDTH=0.12 MM, VOLTAGE=0V
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
XW9314 SM — GND_GPU_AVSSQ — MIN_LINE_WIDTH=0.25 MM, MIN_NECK_WIDTH=0.125 MM, VOLTAGE=0V — 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
XW9320 SM — GND_GPU_A2VSSN — MIN_LINE_WIDTH=0.3 MM, MIN_NECK_WIDTH=0.125 MM, VOLTAGE=0V
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
XW9324 SM — GND_GPU_A2VSSQ — MIN_LINE_WIDTH=0.3 MM, MIN_NECK_WIDTH=0.125 MM, VOLTAGE=0V — 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
XW9330 SM — GND_GPU_LPVSS — MIN_LINE_WIDTH=0.2 MM, MIN_NECK_WIDTH=0.12 MM, VOLTAGE=0V
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
XW9345 SM — GND_GPU_LVSSR — MIN_LINE_WIDTH=0.35 MM, MIN_NECK_WIDTH=0.125 MM, VOLTAGE=0V
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

DAC (CRT)
- AM23 VDD1DI (2.5V)
- AL23 VSS1DI
- 93 ATI_RSET → AL22 RSET

DAC2 (TV/CRT2)
- 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

LVDS
- AR19 LPVDD (2.5V)
- AR18 LPVSS
- AC21, AC22, AD21, AD22, AE20, AE21, AE22, AF19, AF20 LVDDR (2.5V)
- AF17, AF18, AF21, AF22, AG17, AG19, AH17, AH19, AJ19, AK17 LVSSR

MONITOR IDENTIFICATION
- 97 GPU_HPD → AF11 HPD1

TMDS outputs:
- TXCP AM9 → 97 TMDS_CLK_P OUT2
- TXCM AL9 → 97 TMDS_CLK_N OUT2
- TX0P AL10 → 97 TMDS_DATA_P<0> OUT2
- TX0M AK10 → 97 TMDS_DATA_N<0> OUT2
- TX1P AM11 → 97 TMDS_DATA_P<1> OUT2
- TX1M AL11 → 97 TMDS_DATA_N<1> OUT2
- TX2P AM12 → 97 TMDS_DATA_P<2> OUT2
- TX2M AL12 → 97 TMDS_DATA_N<2> OUT2
- TX3P AJ9 → 95 TMDS_DATA_P<3> OUT2
- TX3M AK9 → 95 TMDS_DATA_N<3> OUT2
- TX4P AJ11 → 95 TMDS_DATA_P<4> OUT2
- TX4M AK11 → 95 TMDS_DATA_N<4> OUT2
- TX5P AJ12 → 95 TMDS_DATA_P<5> OUT2
- TX5M AK12 → 95 TMDS_DATA_N<5> OUT2

VGA outputs:
- R AK24 → 88 GPU_VGA_R OUT2
- G AM24 → 88 GPU_VGA_G OUT2
- B AL24 → 88 GPU_VGA_B OUT2
- HSYNC AJ23 → 88 GPU_VGA_HSYNC OUT2
- VSYNC AJ22 → 88 GPU_VGA_VSYNC OUT2

DAC2 outputs:
- R2 AK15 → 97 GPU_R2 OUT2
- G2 AM15 → 97 GPU_G2 OUT2
- B2 AL15 → 97 GPU_B2 OUT2
- H2SYNC AF15 → 97 GPU_H2SYNC OUT2
- V2SYNC AG15 → 97 GPU_V2SYNC OUT2
- Y AJ15 → 88 GPU_TV_Y OUT2
- C AJ13 → 88 GPU_TV_C OUT2
- COMP AH15 → 88 GPU_TV_COMP OUT2

LVDS outputs:
- TXCLK_UP AJ21 → 94 LVDS_U_CLK_P OUT2
- TXCLK_UN AK21 → 94 LVDS_U_CLK_N OUT2
- TXOUT_U0P AG18 → 94 LVDS_U_DATA_P<0> OUT2
- TXOUT_U0N AH18 → 94 LVDS_U_DATA_N<0> OUT2
- TXOUT_U1P AK20 → 94 LVDS_U_DATA_P<1> OUT2
- TXOUT_U1N AJ20 → 94 LVDS_U_DATA_N<1> OUT2
- TXOUT_U2P AG20 → 94 LVDS_U_DATA_P<2> OUT2
- TXOUT_U2N AH20 → 94 LVDS_U_DATA_N<2> OUT2
- TXOUT_U3P AG21 → 94 LVDS_U_DATA_P<3> OUT2
- TXOUT_U3N AG21 → 94 LVDS_U_DATA_N<3> OUT2
- TXCLK_LP AM18 → 94 93 LVDS_L_CLK_P OUT2
- TXCLK_LN AL18 → 94 93 LVDS_L_CLK_N OUT2
- TXOUT_L0P AL19 → 94 LVDS_L_DATA_P<0> OUT2
- TXOUT_L0N AK19 → 94 93 LVDS_L_DATA_N<0> OUT2
- TXOUT_L1P AM20 → 94 93 LVDS_L_DATA_P<1> OUT2
- TXOUT_L1N AL20 → 94 93 LVDS_L_DATA_N<1> OUT2
- TXOUT_L2P AM21 → 94 93 LVDS_L_DATA_P<2> OUT2
- TXOUT_L2N AL21 → 94 93 LVDS_L_DATA_N<2> OUT2
- TXOUT_L3P AJ18 → 94 LVDS_L_DATA_P<3> OUT2
- TXOUT_L3N AK18 → 94 LVDS_L_DATA_N<3> OUT2

Monitor identification:
- DDC1CLK AN23 → 97 GPU_DDC_A_CLK I/O
- DDC1DATA AN22 → 97 GPU_DDC_A_DATA I/O
- DDC2CLK AG13 → 88 GPU_DDC_B_CLK I/O
- DDC2DATA AH13 → 88 GPU_DDC_B_DATA I/O
- DDC3CLK AF12 → 94 93 GPU_DDC_C_CLK I/O
- DDC3DATA AE12 → 94 93 GPU_DDC_C_DATA I/O

ATI_RSET 93
ATI_R2SET 93
R9350 499 1% 1/16W MF-LF 402
R9351 715 1% 1/16W MF-LF 402

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

94 93 LVDS_L_CLK_P → TMDS_PANEL R9370 100 5% 1/16W MF-LF 402
94 93 LVDS_L_CLK_N
94 93 LVDS_L_DATA_P<0> → TMDS_PANEL R9371 100 5% 1/16W MF-LF 402
94 93 LVDS_L_DATA_N<0>
94 93 LVDS_L_DATA_P<1> → TMDS_PANEL R9372 100 5% 1/16W MF-LF 402
94 93 LVDS_L_DATA_N<1>
94 93 LVDS_L_DATA_P<2> → TMDS_PANEL R9373 100 5% 1/16W MF-LF 402
94 93 LVDS_L_DATA_N<2>

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

91 88 85 =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 M56 Video Interfaces

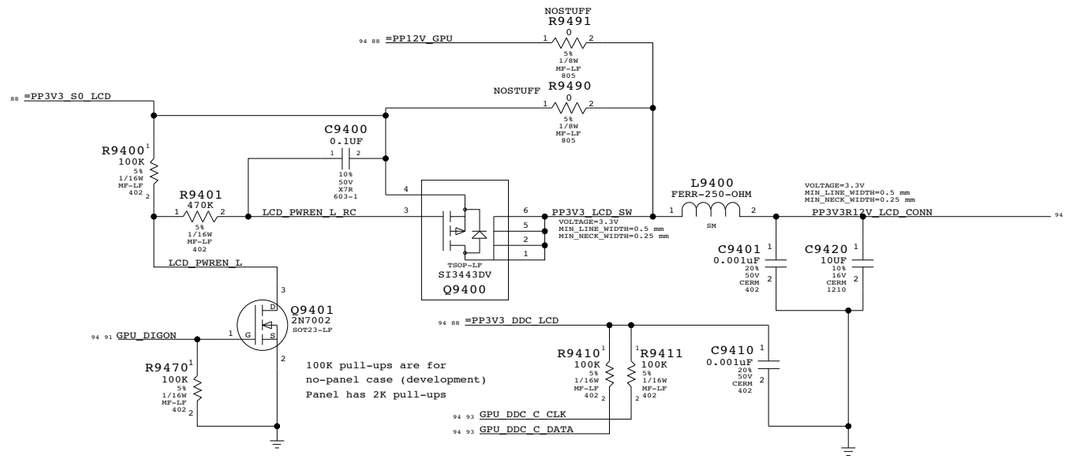
SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

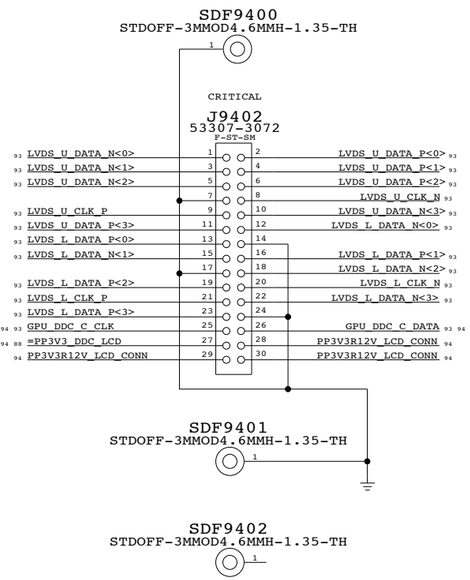
APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09

SCALE	SHT	OF
NONE	93	111

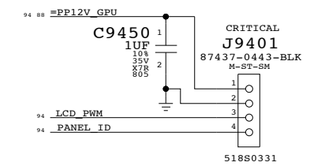
LCD (LVDS) INTERFACE

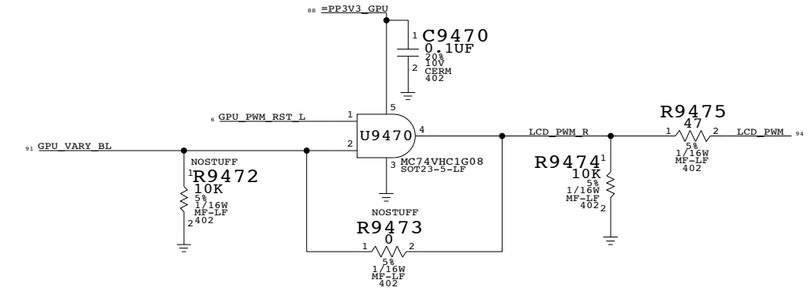




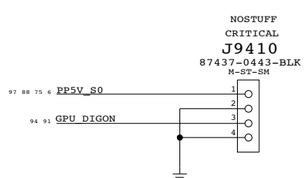
NOTE: 3RD STANDOFF FOR LVDS->TMDS CONVERTER BOARD

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	051-6949	09

SCALE	SHT	OF
NONE	94	111

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	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

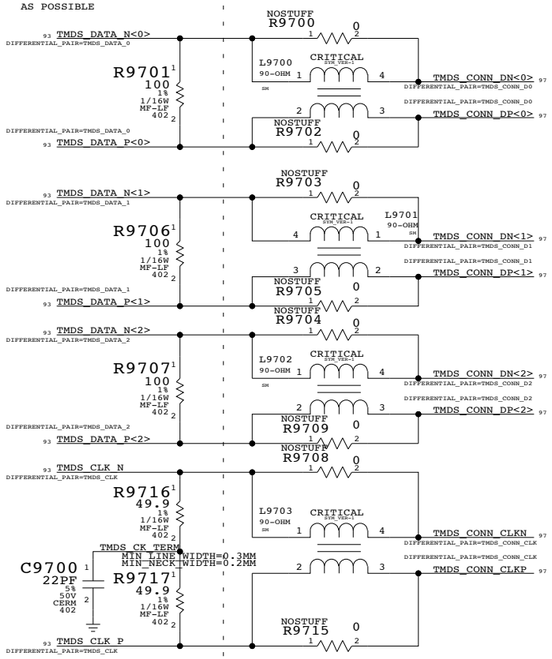
APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 95 OF 111	

DVI INTERFACE

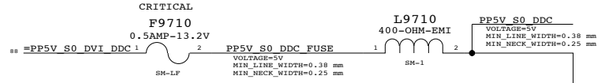
PLACE LEFT SIDE AS CLOSE TO GPU (U8400) AS POSSIBLE

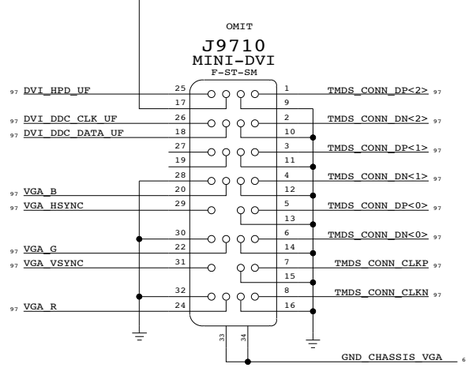
PLACE FILTER CLOSE TO TMDS CONNECTOR



DVI DDC CURRENT LIMIT

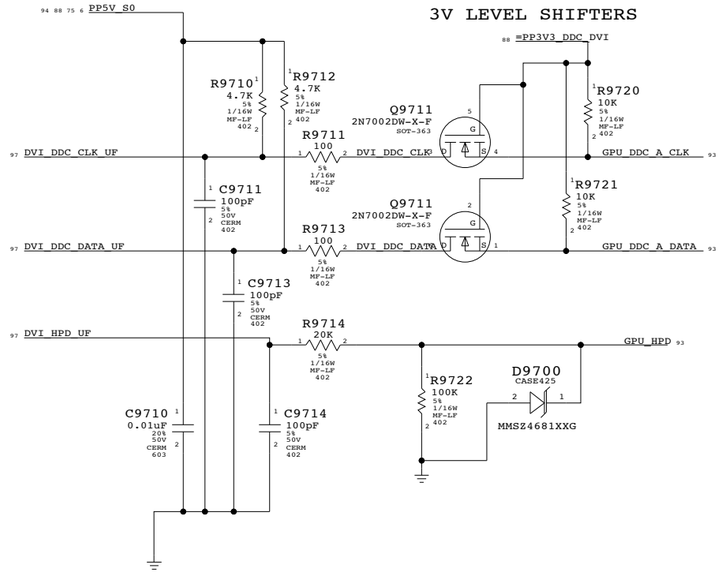
(55mA requirement per DVI spec)





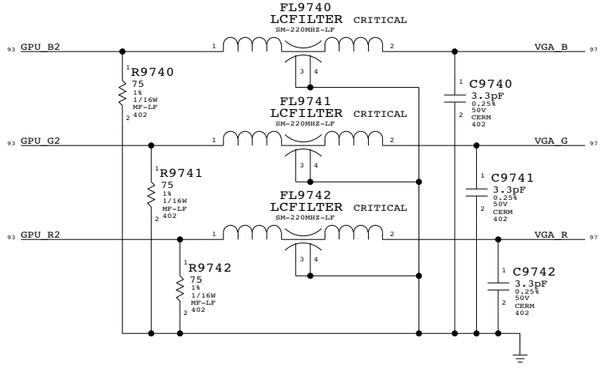
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
514S0114	1	CONN,32-P MINI-DVI RCPT MG3,LF	J9710	CRITICAL	17_INCH_LCD
514S0116	1	CONN,32-P MINI-DVI RCPT MG3,LF	J9710	CRITICAL	20_INCH_LCD

3V LEVEL SHIFTERS

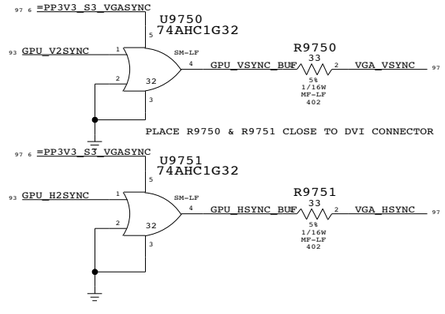


ANALOG FILTERING

PLACE CLOSE TO CONNECTOR



VGA SYNC BUFFERS



External Display Conns

SYNC_MASTER=BOZEMAN SYNC_DATE=04/14/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-6949	09
SCALE: NONE	SHT 97 OF 111	

Title: Basenet Report
Design: m38
Date: Nov 15 17:44:33 2005

Base nets and synonyms for m38_lib.M38(@m38_lib.m38(sch_1))

Base Signal	Synonyms	Location([Zone][dir])
0V7_REF	0V7_REF - @m38_lib.M38	79A3
1V0_REF	1V0_REF - @m38_lib.M38	79A5 80A5 81A5 81B3
1V2REG_ITH	1V2REG_ITH - @m38_lib.M38	77B5
1V2REG_ITH_RC	1V2REG_ITH_RC - @m38_lib.M38	77B6
1V2REG_MODE	1V2REG_MODE - @m38_lib.M38	77B5
1V2REG_PGOOD	1V2REG_PGOOD - @m38_lib.M38	77B4
1V2REG_RT	1V2REG_RT - @m38_lib.M38	77B5
1V2REG_RUNSS	1V2REG_RUNSS - @m38_lib.M38	77B5
1V2REG_SGND	1V2REG_SGND - @m38_lib.M38	77A7
1V2REG_SW	1V2REG_SW - @m38_lib.M38	77B4
1V2REG_VFB	1V2REG_VFB - @m38_lib.M38	77B5
1V2REG_VFB_DIV	1V2REG_VFB_DIV - @m38_lib.M38	77A5
1V3_REF	1V3_REF - @m38_lib.M38	80B3
1V05REG_NB_BOOT	1V05REG_NB_BOOT - @m38_lib.M38	81C6
1V05REG_NB_BOOT_R	1V05REG_NB_BOOT_R - @m38_lib.M38	81C5
1V05REG_NB_COMP	1V05REG_NB_COMP - @m38_lib.M38	81C6
1V05REG_NB_COMP_R	1V05REG_NB_COMP_R - @m38_lib.M38	81C5
1V05REG_NB_FB	1V05REG_NB_FB - @m38_lib.M38	81C5
1V05REG_NB_FB_R	1V05REG_NB_FB_R - @m38_lib.M38	81C3
1V05REG_NB_FS_DIS	1V05REG_NB_FS_DIS - @m38_lib.M38	81C7
1V05REG_NB_GND	1V05REG_NB_GND - @m38_lib.M38	81B7
1V05REG_NB_LDO_DR	1V05REG_NB_LDO_DR - @m38_lib.M38	81C7
1V05REG_NB_LDO_FB	1V05REG_NB_LDO_FB - @m38_lib.M38	81C7
1V05REG_NB_LGATE	1V05REG_NB_LGATE - @m38_lib.M38	81C6
1V05REG_NB_PVCC5	1V05REG_NB_PVCC5 - @m38_lib.M38	81D7
1V05REG_NB_SNUB	1V05REG_NB_SNUB - @m38_lib.M38	81C4
1V05REG_NB_SWITCHNODE	1V05REG_NB_SWITCHNODE - @m38_lib.M38	81C5
1V05REG_NB_UGATE	1V05REG_NB_UGATE - @m38_lib.M38	81D6
1V05REG_NB_VCC5	1V05REG_NB_VCC5 - @m38_lib.M38	81D7
1V5REG_PCIE_BOOT	1V5REG_PCIE_BOOT - @m38_lib.M38	80C6
1V5REG_PCIE_BOOT_R	1V5REG_PCIE_BOOT_R - @m38_lib.M38	80C5
1V5REG_PCIE_COMP	1V5REG_PCIE_COMP - @m38_lib.M38	80C6
1V5REG_PCIE_COMP_R	1V5REG_PCIE_COMP_R - @m38_lib.M38	80C5
1V5REG_PCIE_FB	1V5REG_PCIE_FB - @m38_lib.M38	80C5
1V5REG_PCIE_FB_R	1V5REG_PCIE_FB_R - @m38_lib.M38	80C3
1V5REG_PCIE_FS_DIS	1V5REG_PCIE_FS_DIS - @m38_lib.M38	80C7
1V5REG_PCIE_GND	1V5REG_PCIE_GND - @m38_lib.M38	80B7
1V5REG_PCIE_LDO_DR	1V5REG_PCIE_LDO_DR - @m38_lib.M38	80C7
1V5REG_PCIE_LDO_FB	1V5REG_PCIE_LDO_FB - @m38_lib.M38	80C7
1V5REG_PCIE_LGATE	1V5REG_PCIE_LGATE - @m38_lib.M38	80C6
1V5REG_PCIE_PVCC5	1V5REG_PCIE_PVCC5 - @m38_lib.M38	80D7
1V5REG_PCIE_SNUB	1V5REG_PCIE_SNUB - @m38_lib.M38	80C4
1V5REG_PCIE_SWITCHNODE	1V5REG_PCIE_SWITCHNODE - @m38_lib.M38	80C5
1V5REG_PCIE_UGATE	1V5REG_PCIE_UGATE - @m38_lib.M38	80D6
1V5REG_PCIE_VCC5	1V5REG_PCIE_VCC5 - @m38_lib.M38	80D7
1V6_REF	1V6_REF - @m38_lib.M38	79B3
1V8REG_DDR_BOOT	1V8REG_DDR_BOOT - @m38_lib.M38	79D6
1V8REG_DDR_BOOT_R	1V8REG_DDR_BOOT_R - @m38_lib.M38	79D5
1V8REG_DDR_COMP	1V8REG_DDR_COMP - @m38_lib.M38	79C6
1V8REG_DDR_COMP_R	1V8REG_DDR_COMP_R - @m38_lib.M38	79C5
1V8REG_DDR_FB	1V8REG_DDR_FB - @m38_lib.M38	79C5
1V8REG_DDR_FB_R	1V8REG_DDR_FB_R - @m38_lib.M38	79C3
1V8REG_DDR_FS_DIS	1V8REG_DDR_FS_DIS - @m38_lib.M38	79C7
1V8REG_DDR_GND	1V8REG_DDR_GND - @m38_lib.M38	79C7
1V8REG_DDR_LDO_DR	1V8REG_DDR_LDO_DR - @m38_lib.M38	79C7
1V8REG_DDR_LDO_FB	1V8REG_DDR_LDO_FB - @m38_lib.M38	79C7
1V8REG_DDR_LGATE	1V8REG_DDR_LGATE - @m38_lib.M38	79C6
1V8REG_DDR_PVCC5	1V8REG_DDR_PVCC5 - @m38_lib.M38	79D7
1V8REG_DDR_SNUB	1V8REG_DDR_SNUB - @m38_lib.M38	79C4
1V8REG_DDR_SWITCHNODE	1V8REG_DDR_SWITCHNODE - @m38_lib.M38	79C5
1V8REG_DDR_UGATE	1V8REG_DDR_UGATE - @m38_lib.M38	79D6
1V8REG_DDR_VCC5	1V8REG_DDR_VCC5 - @m38_lib.M38	79D7
1V8REG_GPU_BOOT	1V8REG_GPU_BOOT - @m38_lib.M38	78C6
1V8REG_GPU_BOOT_R	1V8REG_GPU_BOOT_R - @m38_lib.M38	78C5
1V8REG_GPU_COMP	1V8REG_GPU_COMP - @m38_lib.M38	78B6
1V8REG_GPU_COMP_R	1V8REG_GPU_COMP_R - @m38_lib.M38	78B5
1V8REG_GPU_FB	1V8REG_GPU_FB - @m38_lib.M38	78B5
1V8REG_GPU_FB_R	1V8REG_GPU_FB_R - @m38_lib.M38	78B3
1V8REG_GPU_FS_DIS	1V8REG_GPU_FS_DIS - @m38_lib.M38	78B7
1V8REG_GPU_GND	1V8REG_GPU_GND - @m38_lib.M38	78B7
1V8REG_GPU_LDO_DR	1V8REG_GPU_LDO_DR - @m38_lib.M38	78C7
1V8REG_GPU_LDO_FB	1V8REG_GPU_LDO_FB - @m38_lib.M38	78B7
1V8REG_GPU_LGATE	1V8REG_GPU_LGATE - @m38_lib.M38	78B6
1V8REG_GPU_PVCC5	1V8REG_GPU_PVCC5 - @m38_lib.M38	78C7
1V8REG_GPU_SNUB	1V8REG_GPU_SNUB - @m38_lib.M38	78B4
1V8REG_GPU_SWITCHNODE	1V8REG_GPU_SWITCHNODE - @m38_lib.M38	78B5
1V8REG_GPU_UGATE	1V8REG_GPU_UGATE - @m38_lib.M38	78C6
1V8REG_GPU_VCC5	1V8REG_GPU_VCC5 - @m38_lib.M38	78C7
2V5REG_ITH	2V5REG_ITH - @m38_lib.M38	77C4
2V5REG_ITH_RC	2V5REG_ITH_RC - @m38_lib.M38	77C4
2V5REG_MODE	2V5REG_MODE - @m38_lib.M38	77C5
2V5REG_RT	2V5REG_RT - @m38_lib.M38	77C5
2V5REG_SGND	2V5REG_SGND - @m38_lib.M38	77C4
2V5REG_SW	2V5REG_SW - @m38_lib.M38	77C4
2V5REG_VFB	2V5REG_VFB - @m38_lib.M38	77C4
5V_REG_IN	5V_REG_IN - @m38_lib.M38	68A4
=I2C_HD_TEMP_SCL	=I2C_HD_TEMP_SCL - @m38_lib.M38	59C1 66B6
	=I2C_ODD_TEMP_SCL - @m38_lib.M38	59C1 66B4
	=SMB_THRM_CLK - @m38_lib.M38	10C3 59C1
	SMB_B_S0_CLK - @m38_lib.M38	58B5 59C2 59D1
	SMB_GPU_NB_THRM_CLK - @m38_lib.M38	59B1 61C3
	SMB_B_S0_CLK - @m38_lib.M38	58B5 59C2 59D1
	=SMB_THRM_CLK - @m38_lib.M38	10C3 59C1
	=I2C_ODD_TEMP_SCL - @m38_lib.M38	59C1 66B4
=I2C_HD_TEMP_SDA	=I2C_HD_TEMP_SDA - @m38_lib.M38	59C1 66B6
	=I2C_ODD_TEMP_SDA - @m38_lib.M38	59C1 66B4
	=SMB_THRM_DATA - @m38_lib.M38	10C3 59C1
	SMB_B_S0_DATA - @m38_lib.M38	58B5 59C2 59D1
	SMB_GPU_NB_THRM_DATA - @m38_lib.M38	59B1 61C3
	SMB_B_S0_DATA - @m38_lib.M38	58B5 59C2 59D1
	=SMB_THRM_DATA - @m38_lib.M38	10C3 59C1
	=I2C_ODD_TEMP_SDA - @m38_lib.M38	59C1 66B4
=I2C_MEM_SCL	=I2C_MEM_SCL - @m38_lib.M38	27D6 28A6 29A6
	=SMB_AIRPORT_CLK - @m38_lib.M38	27D6 53B4
	SMB_CK410_CLK - @m38_lib.M38	27D6 33B6
	SMB_CLK - @m38_lib.M38	23D5 27B7 27D7
	SMB_CK410_CLK - @m38_lib.M38	27D6 33B6
	=SMB_AIRPORT_CLK - @m38_lib.M38	27D6 53B4
=I2C_MEM_SDA	=I2C_MEM_SDA - @m38_lib.M38	27D6 28A6 29A6
	=SMB_AIRPORT_DATA - @m38_lib.M38	27C6 53B4
	SMB_CK410_DATA - @m38_lib.M38	27D6 33B6
	SMB_DATA - @m38_lib.M38	23D5 27B7 27D7
	SMB_CK410_DATA - @m38_lib.M38	27D6 33B6
	=SMB_AIRPORT_DATA - @m38_lib.M38	27C6 53B4
=PNBB_S0_GPU	=PNBB_S0_GPU - @m38_lib.M38	86D2 88C6
	=PNVOUT_S0_GPUBBN_REG - @m38_lib.M38	85B1 88C6
	PNBB_S0_GPU - @m38_lib.M38	88C8
	=PNVOUT_S0_GPUBBN_REG - @m38_lib.M38	85B1 88C6
=PP0V9_S0_MEMVTT_LDO	=PP0V9_S0_MEMVTT_LDO - @m38_lib.M38	6D4 31B3
	=PP0V9_S0_MEM_TERM - @m38_lib.M38	6D4 30D4
	PP0V9_S0 - @m38_lib.M38	6D6 79A3
	=PP0V9_S0_MEM_TERM - @m38_lib.M38	6D4 30D4
=PP1V2_S0_GPU_VDDPLL	=PP1V2_S0_GPU_VDDPLL - @m38_lib.M38	88C6 91B8
	=PPVIO_S0_PCIE - @m38_lib.M38	84A2 88C6
	=PP1V2_S0_REG - @m38_lib.M38	77A1 88C6
	=PP1V2_S0_PCIE_GPU_PVDD - @m38_lib.M38	84C8 88D6
	=PP1V2_S0_PCIE_GPU_VDDR - @m38_lib.M38	84C8 88D6
	PP1V2_GPU_IO_S0 - @m38_lib.M38	88D8
	=PPVIO_S0_PCIE - @m38_lib.M38	84A2 88C6
	=PP1V2_S0_REG - @m38_lib.M38	77A1 88C6
	=PP1V2_S0_PCIE_GPU_VDDR - @m38_lib.M38	84C8 88D6
	=PP1V2_S0_PCIE_GPU_PVDD - @m38_lib.M38	84C8 88D6
=PP1V2_S3_ENET	=PP1V2_S3_ENET - @m38_lib.M38	41A8 41D6 42B5
	PP1V2_S3_ENET - @m38_lib.M38	42B5
=PP1V2_S3_LAN	=PP1V2_S3_LAN - @m38_lib.M38	6D3 42B8
	PP1V2_S3 - @m38_lib.M38	6D4 77B2
=PP1V8_S0_FB_VDD	=PP1V8_S0_FB_VDD - @m38_lib.M38	88B6 89D5 89D8 90D5 90D8
	=PP1V8_S0_FB_VDDQ - @m38_lib.M38	88B6 89D5 89D8 90D5 90D8
	=PP1V8R2V0_S0_FB_GPU - @m38_lib.M38	86B8 87A5 87A8 87B5 87B8 88B6
	PP1V8_S0 - @m38_lib.M38	78B2 88B6
	=PP1V8R3V3_S0_GPU_VDDR5 - @m38_lib.M38	88B6 91B7
	=PP1V8R3V3_S0_GPU_VDDR4 - @m38_lib.M38	88B6 91B7
	PP1V8_S0 - @m38_lib.M38	78B2 88B6
	PP1V8R2V0_S0_FB_GPU - @m38_lib.M38	88B8
	=PP1V8_S0_FB_VDDQ - @m38_lib.M38	88B6 89D5 89D8 90D5 90D8
	=PP1V8R3V3_S0_GPU_VDDR5 - @m38_lib.M38	88B6 91B7
	=PP1V8R3V3_S0_GPU_VDDR4 - @m38_lib.M38	88B6 91B7
	=PP1V8R2V0_S0_FB_GPU - @m38_lib.M38	86B8 87A5 87A8 87B5 87B8 88B6
=PP1V8_S3_MEM_NB	=PP1V8_S3_MEM_NB - @m38_lib.M38	6D3 6D3 14C2 16B6 19B8 19D7
	=PP1V8_S0_MEMVTT - @m38_lib.M38	6D3 31C7
	PP1V8_S3 - @m38_lib.M38	5D2 6D4 79C2
	=PP1V8_S3_MEM - @m38_lib.M38	5C4 6D3 28B2 28C8 28D3 28D6 29B2 29D3 29D6
	PP1V8_S3 - @m38_lib.M38	5D2 6D4 79C2
	=PP1V8_S3_MEM - @m38_lib.M38	5C4 6D3 28B2 28C8 28D3 28D6 29B2 29D3 29D6
	=PP1V8_S0_MEMVTT - @m38_lib.M38	6D3 31C7
=PP2V5_S0_NB_VCCA_3GBG	=PP2V5_S0_NB_VCCA_3GBG - @m38_lib.M38	6B4 17D6 19A8 19C7
	=PP2V5_S0_GPU - @m38_lib.M38	88B6 93C8
	PP2V5_S0 - @m38_lib.M38	6B6 77C3 88C8
	=PP2V5_S0_GPU_VDD25 - @m38_lib.M38	88B6 91C6
	=PP2V5_S0_GPU_VDDC_CT - @m38_lib.M38	88B6 91C6
	=PP2V5_S0_GPU_PVDD - @m38_lib.M38	88B6 91A8
	PP2V5_S0 - @m38_lib.M38	6B6 77C3 88C8
	=PP2V5_S0_GPU_VDDC_CT - @m38_lib.M38	88B6 91C6
	=PP2V5_S0_GPU_VDD25 - @m38_lib.M38	88B6 91C6
	=PP2V5_S0_GPU_PVDD - @m38_lib.M38	88B6 91A8
	=PP2V5_S0_GPU - @m38_lib.M38	88B6 93C8
=PP2V5_S3_ENET	=PP2V5_S3_ENET - @m38_lib.M38	41D5 41D6 42C4
	PP2V5_S3_ENET - @m38_lib.M38	42C4 43D8
=PP3V3_S0_NB	=PP3V3_S0_NB - @m38_lib.M38	6A4 14C7 14D6 19C7 20A4 20B4 20B4
	=PP3V3_DDC_DVI - @m38_lib.M38	88C6 97D2
	=PP3V3_DDC_LCD - @m38_lib.M38	88C6 94A7 94C7
	=PP3V3_GPU - @m38_lib.M38	88C6 94B3
	PP3V3_S0 - @m38_lib.M38	6A7 6B6 6D8 10D2 26B7 26C6 41D8 59D3 61C3 76D6 88C8
	=PP3V3_S0_GPUBBCTL - @m38_lib.M38	85A7 88C6
	=PP3V3_S0_GPUBBN - @m38_lib.M38	85B5 88C6
	=PP3V3_S0_GPU - @m38_lib.M38	85B3 88C6 91D2 93A1
	=PP3V3_S0_GPU_VDDR3 - @m38_lib.M38	88C6 88D3 91C6
	=PP3V3_S0_LCD - @m38_lib.M38	88C6 94C8
	=PP3V3_S0_GPUBBP - @m38_lib.M38	85B8 88C6
	=PP3V3_S0_2V5REG - @m38_lib.M38	6A4 77D6
	=PP3V3_S0_AIRPORT - @m38_lib.M38	6A4 53C2
	=PP3V3_S0_PCI - @m38_lib.M38	6A4 44D5
	=PP3V3_S0_AUDIO - @m38_lib.M38	6A4 68A6 68D7 72A6 72C8 72D5 73B8 73C2 74B5 74C5 74D5
	=PP3V3_S0_IMVP - @m38_lib.M38	6A4 75D8
	=PP3V3_S0_CK410 - @m38_lib.M38	6A4 33C8 33D3 33D8 34D4
	=PPSPD_S0_MEM - @m38_lib.M38	6A4 28A7 29A3 29A7
	=PP3V3_S0_TPM - @m38_lib.M38	6A4 67C7 67D4
	=PP3V3_S0_SB_3V3_1V5_VCCHDA - @m38_lib.M38	6A4 24C3 25C4
	=PP3V3_S0_ODD_TSENS - @m38_lib.M38	6A4 66B4
	=PP3V3_S0_HD_TSENS - @m38_lib.M38	6B4 66B5
	=PP3V3_S0_FAN - @m38_lib.M38	6B4 59A8 59B7 65B7 65C7 66C7
	=PP3V3_S0_PATA - @m38_lib.M38	6B4 38D3
	=PP3V3_S0_SB_PM - @m38_lib.M38	6B4 26D4
	=PP3V3_S0_SB_PCI - @m38_lib.M38	6B4 26D1
	=PP3V3_S0_SB_VCC3_3_IDE - @m38_lib.M38	6B4 24C3 25B3
	=PP3V3_S0_SB_VCC3_3_PCI - @m38_lib.M38	6B4 24B3 25A3
	=PP3V3_S0_SB_VCC3_3 - @m38_lib.M38	6B4 24B5 24B5 25B8 25C6
	=PP3V3_S0_NB_VCC_HV - @m38_lib.M38	6B4 17C6 19A8 19C7
	=PP3V3_S0_SB_GPIO - @m38_lib.M38	6B4 21C3 21D3 23B3 23D5
	=PP3V3_S0_SB_VCCLAN3_3 - @m38_lib.M38	6A4 24D3 25D3
	=PP3V3_S0_SB - @m38_lib.M38	6B4 22B5 25D8
	PP3V3_S0 - @m38_lib.M38	6A7 6B6 6D8 10D2 26B7 26C6 41D8 59D3 61C3 76D6 88C8
	=PPSPD_S0_MEM - @m38_lib.M38	6A4 28A7 29A3 29A7
	=PP3V3_S0_TPM - @m38_lib.M38	6A4 67C7 67D4
	=PP3V3_S0_SB_VCCLAN3_3 - @m38_lib.M38	6A4 24D3 25D3
	=PP3V3_S0_SB_VCC3_3_PCI - @m38_lib.M38	6B4 24B3 25A3
	=PP3V3_S0_SB_VCC3_3_IDE - @m38_lib.M38	6B4 24C3 25B3
	=PP3V3_S0_SB_VCC3_3 - @m38_lib.M38	6B4 24B5 24B5 25B8 25C6
	=PP3V3_S0_SB_PM - @m38_lib.M38	6B4 26D4
	=PP3V3_S0_SB_PCI - @m38_lib.M38	6B4 26D1
	=PP3V3_S0_SB_GPIO - @m38_lib.M38	6B4 21C3 21D3 23B3 23D5
	=PP3V3_S0_SB_3V3_1V5_VCCHDA - @m38_lib.M38	6A4 24C3 25C4
	=PP3V3_S0_SB - @m38_lib.M38	6B4 22B5 25D8
	=PP3V3_S0_PCI - @m38_lib.M38	6A4 44D5
	=PP3V3_S0_PATA - @m38_lib.M38	6B4 38D3
	=PP3V3_S0_ODD_TSENS - @m38_lib.M38	6A4 66B4
	=PP3V3_S0_NB_VCC_HV - @m38_lib.M38	6B4 17C6 19A8 19C7
	=PP3V3_S0_NB_TVDAC - @m38_lib.M38	6B4 19C7
	=PP3V3_S0_NB_PM - @m38_lib.M38	6B4
	=PP3V3_S0_LCD - @m38_lib.M38	88C6 94C8
	=PP3V3_S0_IMVP - @m38_lib.M38	6A4 75D8
	=PP3V3_S0_HD_TSENS - @m38_lib.M38	6B4 66B5
	=PP3V3_S0_GPU_CLOCKS - @m38_lib.M38	88C6
	=PP3V3_S0_GPUBBP - @m38_lib.M38	85B8 88C6
	=PP3V3_S0_GPUBBN - @m38_lib.M38	85B5 88C6
	=PP3V3_S0_GPUBBCTL - @m38_lib.M38	85A7 88C6
	=PP3V3_S0_GPU - @m38_lib.M38	85B3 88C6 91D2 93A1
	=PP3V3_S0_FAN - @m38_lib.M38	6B4 59A8 59B7 65B7 65C7 66C7
	=PP3V3_S0_CK410 - @m38_lib.M38	6A4 33C8 33D3 33D8 34D4
	=PP3V3_S0_AUDIO - @m38_lib.M38	6A4 68A6 68D7 72A6 72C8 72D5 73B8 73C2 74B5 74C5 74D5
	=PP3V3_S0_AIRPORT - @m38_lib.M38	6A4 53C2
	=PP3V3_S0_2V5REG - @m38_lib.M38	6A4 77D6
	=PP3V3_GPU - @m38_lib.M38	88C6 94B3
	=PP3V3_DDC_LCD - @m38_lib.M38	88C6 94A7 94C7
	=PP3V3_DDC_DVI - @m38_lib.M38	88C6 97D2
=PP3V3_S3_1V2REG	=PP3V3_S3_1V2REG - @m38_lib.M38	6D3 77B7
	=PP3V3_S3_USB - @m38_lib.M38	6C3 49C5
	=PP3V3_S3_VGASYNC - @m38_lib.M38	6C3 97A4 97B4
	PP3V3_S3 - @m38_lib.M38	6A7 6D4 53C4 59C8 59D3 83B3
	=PP3V3_S3_BT - @m38_lib.M38	6D3 47B3
	=PP3V3_S3_TPM - @m38_lib.M38	6D3 67C2
	=PP3V3_S3_ENET - @m38_lib.M38	6D3 41A5 41B3 41C3 41D6 41D8 42D3 42D8 43D2
	PP3V3_S3 - @m38_lib.M38	6A7 6D4 53C4 59C8 59D3 83B3
	=PP3V3_S3_VGASYNC - @m38_lib.M38	6C3 97A4 97B4
	=PP3V3_S3_USB - @m38_lib.M38	6C3 49C5
	=PP3V3_S3_TPM - @m38_lib.M38	6D3 67C2
	=PP3V3_S3_ENET - @m38_lib.M38	6D3 41A5 41B3 41C3 41D6 41D8 42D3 42D8 43D2
	=PP3V3_S3_BT - @m38_lib.M38	6D3 47B3
=PP3V3_S5_DEBUG	=PP3V3_S5_DEBUG - @m38_lib.M38	6D1 60D6
	=PP3V3_S5_ROM - @m38_lib.M38	6D1 63D4
	PP3V3_S5 - @m38_lib.M38	5D2 6C8 6D2 6D8 6D8 26C1 26C4 26C4 59A8 65B7 65D7 66D7 76D2 76D4 77B8 77C7 77C8 77C8 77D8 79A3 79A5 79B3 80A5 80B3 81A5 81A5 83C3
	=PP3V3_S5_SMC - @m38_lib.M38	6D1 58C2 58D3 58D4 59A4 59A5 59C4 59D3 59D8
	=PP3V3_S5_FW - @m38_lib.M38	6D1 44A6 44B2 44B7 44D5 44D7 45D6 46A8
	=PP3V3_S5_SB_IO - @m38_lib.M38	6D1 22C6 27C6
	=PP3V3_S5_SB_3V3_1V5_VCCSUSHDA - @m38_lib.M38	6D1 24C3
	=PP3V3_S5_SB_VCCSUS3_3_USB - @m38_lib.M38	6D1 24B3 25D1
	=PP3V3_S5_SB_VCCSUS3_3 - @m38_lib.M38	6D1 24A5 24B3 25B6 25D1
	=PP3V3_S5_SB_PM - @m38_lib.M38	6D1 11B5 23D1
	=PP3V3_S5_SB_USB - @m38_lib.M38	6D1 22D8
	=PP3V3_S5_SB - @m38_lib.M38	6D1 23A7 23B3 23B7 23D4 23D8 25C8 26D8
	PP3V3_S5 - @m38_lib.M38	5D2 6C8 6D2 6D8 6D8 26C1 26C4 26C4 59A8 65B7 65D7 66D7 76D2 76D4 77B8 77C7 77C8 77C8 77D8 79A3 79A5 79B3 80A5 80B3 81A5 81A5 83C3
	=PP3V3_S5_SMC - @m38_lib.M38	6D1 58C2 58D3 58D4 59A4 59A5 59C4 59D3 59D8
	=PP3V3_S5_SB_VCCSUS3_3_USB - @m38_lib.M38	6D1 24B3 25D1
	=PP3V3_S5_SB_VCCSUS3_3 - @m38_lib.M38	6D1 24A5 24B3 25B6 25D1
	=PP3V3_S5_SB_USB - @m38_lib.M38	6D1 22D8
	=PP3V3_S5_SB_PM - @m38_lib.M38	6D1 11B5 23D1
	=PP3V3_S5_SB_IO - @m38_lib.M38	6D1 22C6 27C6
	=PP3V3_S5_SB_3V3_1V5_VCCSUSHDA - @m38_lib.M38	6D1 24C3
	=PP3V3_S5_SB - @m38_lib.M38	6D1 23A7 23B3 23B7 23D4 23D8 25C8 26D8
	=PP3V3_S5_ROM - @m38_lib.M38	6D1 63D4
	=PP3V3_S5_FW - @m38_lib.M38	6D1 44A6 44B2 44B7 44D5 44D7 45D6 46A8
=PP5V_S0_AUDIO	=PP5V_S0_AUDIO - @m38_lib.M38	6A4 68A6
	PP5V_S0_AUDIO - @m38_lib.M38	6A5
=PP5V_S0_DEBUG	=PP5V_S0_DEBUG - @m38_lib.M38	6A4 60C6
	=PP5V_S0_DVI_DDC - @m38_lib.M38	88A6 97D6
	=PP5V_S0_GPUISENS - @m38_lib.M38	85D2 88A6
	PP5V_S0 - @m38_lib.M38	6A6 6D8 75D7 88B8 94A4 97D3
	=PP5V_S0_GPUBBCTL - @m38_lib.M38	85A6 88B6
	=PP5V_S0_SB - @m38_lib.M38	6A4 25D8
	=PP5V_S0_PATA - @m38_lib.M38	6A4 38C4 38D3
	PP5V_S0 - @m38_lib.M38	6A6 6D8 75D7 88B8 94A4 97D3
	=PP5V_S0_SB - @m38_lib.M38	6A4 25D8
	=PP5V_S0_PATA - @m38_lib.M38	6A4 38C4 38D3
	=PP5V_S0_GPUISENS - @m38_lib.M38	85D2 88A6
	=PP5V_S0_GPUBBCTL - @m38_lib.M38	85A6 88B6
	=PP5V_S0_DVI_DDC - @m38_lib.M38	88A6 97D6
=PP5V_S0_GPUVCORE	=PP5V_S0_GPUVCORE - @m38_lib.M38	85D7 88D6
	GPUVCORE_VCC - @m38_lib.M38	88D6
=PP5V_S0_MEMVTT	=PP5V_S0_MEMVTT - @m38_lib.M38	6C3 31C6
	PP5V_S3 - @m38_lib.M38	6C4 59D6 83C3
	=PP5V_S3_BNDI - @m38_lib.M38	6C3 47D4
	=PP5V_S3_USB - @m38_lib.M38	6C3 47C8
	PP5V_S3 - @m38_lib.M38	6C4 59D6 83C3
	=PP5V_S3_USB - @m38_lib.M38	6C3 47C8
	=PP5V_S3_BNDI - @m38_lib.M38	6C3 47D4
=PP5V_S5_SB	=PP5V_S5_SB - @m38_lib.M38	6D1 25C8
	PP5V_S5 - @m38_lib.M38	5D2 6A8 6D2 6D7 59A5 79B3 79B3 80B3 81B3 83C3
=PP12V_GPU	=PP12V_GPU - @m38_lib.M38	88B6 94C3 94D7
	PP12V_S0 - @m38_lib.M38	6A6 6D8 76B8 88B8
	=PP12V_S0_FAN - @m38_lib.M38	6A4 65B6 65D7 66D6
	PP12V_S0 - @m38_lib.M38	6A6 6D8 76B8 88B8
	=PP12V_S0_FAN - @m38_lib.M38	6A4 65B6 65D7 66D6
=PP12V_S0_AUDIO_SPKRAMP	=PP12V_S0_AUDIO_SPKRAMP - @m38_lib.M38	6A4 72D8
	PP12V_S0_AUDIO_SPKRAMP - @m38_lib.M38	6A5
=PP12V_S5_CPU	=PP12V_S5_CPU - @m38_lib.M38	6C1 76D8
	=PPVIN_S0_GPUVCORE - @m38_lib.M38	85D7 88B6
	PP12V_S5 - @m38_lib.M38	5D2 6C2 6D7 78C7 79D7 80D7 81D7 83C5 83C5 88B8
	=PP12V_S5_FW - @m38_lib.M38	6C1 46D7
	PP12V_S5 - @m38_lib.M38	5D2 6C2 6D7 78C7 79D7 80D7 81D7 83C5 83C5 88B8
	=PPVIN_S0_GPUVCORE - @m38_lib.M38	85D7 88B6
	=PP12V_S5_FW - @m38_lib.M38	6C1 46D7
=PP12V_S5_FW_PHY	=PP12V_S5_FW_PHY - @m38_lib.M38	44C2 46D5
	PP12V_FW - @m38_lib.M38	46D6
=PPBB_S0_GPU	=PPBB_S0_GPU - @m38_lib.M38	86D6 88C6
	=PPVOUT_S0_GPUBBP_LDO - @m38_lib.M38	85B5 88C6
	PPBB_S0_GPU - @m38_lib.M38	88C8
	=PPVOUT_S0_GPUBBP_LDO - @m38_lib.M38	85B5 88C6
=PPVCORE_S0_CPU	=PPVCORE_S0_CPU - @m38_lib.M38	6D4 8B6 8D7 8D8 9B8 76B5
	PPVCORE_CPU - @m38_lib.M38	5D2 6D6 75A4 75D1 76B4
=PPVCORE_S0_GPU	=PPVCORE_S0_GPU - @m38_lib.M38	76B4 86D8 88D6 91A7
	=PPVCORE_S0_GPU_BBP - @m38_lib.M38	85B7 88D6
	PP1V0R1V2_S0_GPU - @m38_lib.M38	59B4 88D8
	=PPVCORE_S0_GPU_REG - @m38_lib.M38	85C1 88D6
	PP1V0R1V2_S0_GPU - @m38_lib.M38	59B4 88D8
	=PPVCORE_S0_GPU_REG - @m38_lib.M38	85C1 88D6
	=PPVCORE_S0_GPU_BBP - @m38_lib.M38	85B7 88D6
ACZ_BITCLK	ACZ_BITCLK - @m38_lib.M38	21C7 68D7
ACZ_RST_L	ACZ_RST_L - @m38_lib.M38	21C7 68C7
ACZ_SDATAIN<0>	ACZ_SDATAIN<0> - @m38_lib.M38	21C7 68D7
ACZ_SDATAIN_CHIP	ACZ_SDATAIN_CHIP - @m38_lib.M38	68C6
ACZ_SDATAOUT	ACZ_SDATAOUT - @m38_lib.M38	21C7 68D7
ACZ_SYNC	ACZ_SYNC - @m38_lib.M38	21C7 68D7
AIRPORT_CLK100M_PCIE_N	AIRPORT_CLK100M_PCIE_N - @m38_lib.M38	34B4 34C2 53C6
AIRPORT_CLK100M_PCIE_P	AIRPORT_CLK100M_PCIE_P - @m38_lib.M38	34B4 34C2 53C6
AIRPORT_CONN_CLK	AIRPORT_CONN_CLK - @m38_lib.M38	53B5
AIRPORT_CONN_DATA	AIRPORT_CONN_DATA - @m38_lib.M38	53B5
AIRPORT_RST_L	AIRPORT_RST_L - @m38_lib.M38	6A7 53C5
AIRPORT_WAKE_L	AIRPORT_WAKE_L - @m38_lib.M38	53C6
ALL_SYS_PWRGD	ALL_SYS_PWRGD - @m38_lib.M38	26D5 58D7 77B6
ALS_GAIN	ALS_GAIN - @m38_lib.M38	58B5 59C6
	NC_ALS_GAIN - @m38_lib.M38	59C5
ALS_LEFT	ALS_LEFT - @m38_lib.M38	58A7 59D5
	TP_ALS_LEFT - @m38_lib.M38	59D3
ALS_RIGHT	ALS_RIGHT - @m38_lib.M38	58A7 59D5
	TP_ALS_RIGHT - @m38_lib.M38	59D3
ATI_DVPCLK	ATI_DVPCLK - @m38_lib.M38	91C3 95A6
	TP_ATI_DVPCLK - @m38_lib.M38	95A8
ATI_DVPCNTL<0>	ATI_DVPCNTL<0> - @m38_lib.M38	91C3 95A6
ATI_DVPCNTL<1>	ATI_DVPCNTL<1> - @m38_lib.M38	91B3 95A6
ATI_DVPCNTL<2>	ATI_DVPCNTL<2> - @m38_lib.M38	91B3 95A6
ATI_DVPDATA<0>	ATI_DVPDATA<0> - @m38_lib.M38	91B3 95B6
ATI_DVPDATA<1>	ATI_DVPDATA<1> - @m38_lib.M38	91B3 95B6
ATI_DVPDATA<2>	ATI_DVPDATA<2> - @m38_lib.M38	91B3 95B6
ATI_DVPDATA<3>	ATI_DVPDATA<3> - @m38_lib.M38	91B3 95B6
ATI_DVPDATA<4>	ATI_DVPDATA<4> - @m38_lib.M38	91B3 95B6
ATI_DVPDATA<5>	ATI_DVPDATA<5> - @m38_lib.M38	91B3 95B6
ATI_DVPDATA<6>	ATI_DVPDATA<6> - @m38_lib.M38	91B3 95B6
ATI_DVPDATA<7>	ATI_DVPDATA<7> - @m38_lib.M38	91B3 95B6
ATI_DVPDATA<8>	ATI_DVPDATA<8> - @m38_lib.M38	91B3 95B6
ATI_DVPDATA<9>	ATI_DVPDATA<9> - @m38_lib.M38	91B3 95B6
ATI_DVPDATA<10>	ATI_DVPDATA<10> - @m38_lib.M38	91B3 95B6
ATI_DVPDATA<11>	ATI_DVPDATA<11> - @m38_lib.M38	91B3 95B6
ATI_DVPDATA<12>	ATI_DVPDATA<12> - @m38_lib.M38	91B3 95B6
ATI_DVPDATA<13>	ATI_DVPDATA<13> - @m38_lib.M38	91B3 95C6
ATI_DVPDATA<14>	ATI_DVPDATA<14> - @m38_lib.M38	91B3 95C6
ATI_DVPDATA<15>	ATI_DVPDATA<15> - @m38_lib.M38	91B3 95C6
ATI_DVPDATA<16>	ATI_DVPDATA<16> - @m38_lib.M38	91B3 95C6
ATI_DVPDATA<17>	ATI_DVPDATA<17> - @m38_lib.M38	91B3 95C6
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ATI_DVPDATA<19>	ATI_DVPDATA<19> - @m38_lib.M38	91B3 95C6
ATI_DVPDATA<20>	ATI_DVPDATA<20> - @m38_lib.M38	91B3 95C6
ATI_DVPDATA<21>	ATI_DVPDATA<21> - @m38_lib.M38	91B3 95C6
ATI_DVPDATA<22>	ATI_DVPDATA<22> - @m38_lib.M38	91A3 95C6
ATI_DVPDATA<23>	ATI_DVPDATA<23> - @m38_lib.M38	91A3 95C6
ATI_R2SET	ATI_R2SET - @m38_lib.M38	93A8 93B5
ATI_RSET	ATI_RSET - @m38_lib.M38	93A8 93B5
ATI_TDIODE_N	ATI_TDIODE_N - @m38_lib.M38	61C5 91A3
ATI_TDIODE_P	ATI_TDIODE_P - @m38_lib.M38	61C5 91A3
ATI_TESTEN	ATI_TESTEN - @m38_lib.M38	91A3
ATI_VREFG	ATI_VREFG - @m38_lib.M38	91D3
AUDLINDETH	AUDLINDETH - @m38_lib.M38	74C4
AUDSAMPCPN	AUDSAMPCPN - @m38_lib.M38	72C4
AUDSAMPCPP	AUDSAMPCPP - @m38_lib.M38	72C4
AUDSAMPINLN	AUDSAMPINLN - @m38_lib.M38	72D6
AUDSAMPINLP	AUDSAMPINLP - @m38_lib.M38	72C6
AUDSAMPINRN	AUDSAMPINRN - @m38_lib.M38	72C6
AUDSAMPINRP	AUDSAMPINRP - @m38_lib.M38	72C6
AUDSAMPOURTP	AUDSAMPOURTP - @m38_lib.M38	72C4
AUDSAMPOUTLN	AUDSAMPOUTLN - @m38_lib.M38	72C4
AUDSAMPOUTLP	AUDSAMPOUTLP - @m38_lib.M38	72C4
AUDSAMPOUTRN	AUDSAMPOUTRN - @m38_lib.M38	72C4
AUD_4V5_SHDN_L	AUD_4V5_SHDN_L - @m38_lib.M38	68A4
AUD_ANALOG_FILT_1	AUD_ANALOG_FILT_1 - @m38_lib.M38	68C4
AUD_ANALOG_FILT_2	AUD_ANALOG_FILT_2 - @m38_lib.M38	68C4
AUD_BI_PORT_A_L	AUD_BI_PORT_A_L - @m38_lib.M38	68C1 74B8
AUD_BI_PORT_A_R	AUD_BI_PORT_A_R - @m38_lib.M38	68C1 74B8
AUD_BI_PORT_B_L	AUD_BI_PORT_B_L - @m38_lib.M38	68B2 68C1 74A3
	AUD_BI_PORT_B_R - @m38_lib.M38	68B1 68C1 74B6
AUD_BI_PORT_C_L	AUD_BI_PORT_C_L - @m38_lib.M38	68C7 72D8
AUD_BI_PORT_C_R	AUD_BI_PORT_C_R - @m38_lib.M38	68C7 72C8
AUD_BI_PORT_D_L	AUD_BI_PORT_D_L - @m38_lib.M38	68C7 74B6
AUD_BI_PORT_D_R	AUD_BI_PORT_D_R - @m38_lib.M38	68C7 74B6
AUD_BI_PORT_E_L	AUD_BI_PORT_E_L - @m38_lib.M38	68C1 74B6
AUD_BI_PORT_E_R	AUD_BI_PORT_E_R - @m38_lib.M38	68C1 74B6
AUD_BI_PORT_F_L	AUD_BI_PORT_F_L - @m38_lib.M38	68C1 74C8
AUD_BI_PORT_F_R	AUD_BI_PORT_F_R - @m38_lib.M38	68C1 74C8
AUD_BYPASS	AUD_BYPASS - @m38_lib.M38	68C4
AUD_DEBOUNCE	AUD_DEBOUNCE - @m38_lib.M38	72B7
AUD_GPIO_0	AUD_GPIO_0 - @m38_lib.M38	68B6 68C7 74A6
AUD_GPIO_0_A	AUD_GPIO_0_A - @m38_lib.M38	68B8 72B8
AUD_GPIO_1	AUD_GPIO_1 - @m38_lib.M38	68A6 68C7 74A6

8	7	6	5	4	3	2	1

AUD_GPIO_1_A	AUD_GPIO_1_A - @m38_lib.M38	68A8 73C2
AUD_GPIO_2	AUD_GPIO_2 - @m38_lib.M38	68C7 74A6
AUD_LI_DET_EMI	AUD_LI_DET_EMI - @m38_lib.M38	73D7
AUD_LI_DET_H	AUD_LI_DET_H - @m38_lib.M38	73D4 74C5
AUD_LI_DET_JACK	AUD_LI_DET_JACK - @m38_lib.M38	73D8
AUD_LI_GND_EMI	AUD_LI_GND_EMI - @m38_lib.M38	73C7
AUD_LI_GND_JACK	AUD_LI_GND_JACK - @m38_lib.M38	73D8
AUD_LI_L_EMI	AUD_LI_L_EMI - @m38_lib.M38	73D7
AUD_LI_L_JACK	AUD_LI_L_JACK - @m38_lib.M38	73D8
AUD_LI_R_EMI	AUD_LI_R_EMI - @m38_lib.M38	73D7
AUD_LI_R_JACK	AUD_LI_R_JACK - @m38_lib.M38	73D8
AUD_LO_DET1	AUD_LO_DET1 - @m38_lib.M38	73B8 74A5
AUD_LO_DET1_1	AUD_LO_DET1_1 - @m38_lib.M38	74A4 74B2
AUD_LO_DET1_EMI	AUD_LO_DET1_EMI - @m38_lib.M38	73B7
AUD_LO_DET1_INV	AUD_LO_DET1_INV - @m38_lib.M38	74B3
AUD_LO_DET1_JACK	AUD_LO_DET1_JACK - @m38_lib.M38	73B4
AUD_LO_DET2	AUD_LO_DET2 - @m38_lib.M38	73B8 74B5
AUD_LO_DET2_1	AUD_LO_DET2_1 - @m38_lib.M38	74B4
AUD_LO_DET2_EMI	AUD_LO_DET2_EMI - @m38_lib.M38	73B7
AUD_LO_DET2_JACK	AUD_LO_DET2_JACK - @m38_lib.M38	73B4
AUD_LO_GND_EMI	AUD_LO_GND_EMI - @m38_lib.M38	73A7
AUD_LO_GND_JACK	AUD_LO_GND_JACK - @m38_lib.M38	73B4
AUD_LO_L_EMI	AUD_LO_L_EMI - @m38_lib.M38	73B7
AUD_LO_L_JACK	AUD_LO_L_JACK - @m38_lib.M38	73B4
AUD_LO_R_EMI	AUD_LO_R_EMI - @m38_lib.M38	73A7
AUD_LO_R_JACK	AUD_LO_R_JACK - @m38_lib.M38	73B4
AUD_MAX9714_CHOLD	AUD_MAX9714_CHOLD - @m38_lib.M38	72C4
AUD_MAX9714_VREG	AUD_MAX9714_VREG - @m38_lib.M38	72C5
AUD_MIC_IN_N	AUD_MIC_IN_N - @m38_lib.M38	73C6 74A6
AUD_MIC_IN_N_CONN	AUD_MIC_IN_N_CONN - @m38_lib.M38	47C2 73C4
AUD_MIC_IN_N_EMI	AUD_MIC_IN_N_EMI - @m38_lib.M38	73C5
AUD_MIC_IN_P	AUD_MIC_IN_P - @m38_lib.M38	73C6 74A6
AUD_MIC_IN_P_CONN	AUD_MIC_IN_P_CONN - @m38_lib.M38	47C2 73C4
AUD_MIC_IN_P_EMI	AUD_MIC_IN_P_EMI - @m38_lib.M38	73C5
AUD_MIC_P1	AUD_MIC_P1 - @m38_lib.M38	74A4
AUD_PORT_A_DET_L	AUD_PORT_A_DET_L - @m38_lib.M38	74B2
AUD_PORT_A_L	AUD_PORT_A_L - @m38_lib.M38	73B8 74B5
AUD_PORT_A_L1	AUD_PORT_A_L1 - @m38_lib.M38	74B7
AUD_PORT_A_R	AUD_PORT_A_R - @m38_lib.M38	73A8 74B5
AUD_PORT_A_R1	AUD_PORT_A_R1 - @m38_lib.M38	74B7
AUD_PORT_E_DET_L	AUD_PORT_E_DET_L - @m38_lib.M38	74B1
AUD_PORT_F_L	AUD_PORT_F_L - @m38_lib.M38	73D4 74C5
AUD_PORT_F_L1	AUD_PORT_F_L1 - @m38_lib.M38	74C7
AUD_PORT_F_R	AUD_PORT_F_R - @m38_lib.M38	73D4 74C5
AUD_PORT_F_R1	AUD_PORT_F_R1 - @m38_lib.M38	74C7
AUD_SAMP_FS1	AUD_SAMP_FS1 - @m38_lib.M38	72A6 72C5
AUD_SAMP_FS2	AUD_SAMP_FS2 - @m38_lib.M38	72A6 72C5
AUD_SAMP_G1	AUD_SAMP_G1 - @m38_lib.M38	72A6 72C5
AUD_SAMP_G2	AUD_SAMP_G2 - @m38_lib.M38	72A6 72C5
AUD_SAMP_INL_N	AUD_SAMP_INL_N - @m38_lib.M38	72C5
AUD_SAMP_INL_P	AUD_SAMP_INL_P - @m38_lib.M38	72C5
AUD_SAMP_INR_N	AUD_SAMP_INR_N - @m38_lib.M38	72C5
AUD_SAMP_INR_P	AUD_SAMP_INR_P - @m38_lib.M38	72C5
AUD_SAMP_SHDN_L	AUD_SAMP_SHDN_L - @m38_lib.M38	72C5
AUD_SENSE_A	AUD_SENSE_A - @m38_lib.M38	68C1 74C5 74D7
AUD_SENSE_B	AUD_SENSE_B - @m38_lib.M38	68C1 74C5 74D5 74D7
AUD_SPDIF_GND	AUD_SPDIF_GND - @m38_lib.M38	73A3
AUD_SPDIF_IN	AUD_SPDIF_IN - @m38_lib.M38	68C1 74B6
AUD_SPDIF_OUT	AUD_SPDIF_OUT - @m38_lib.M38	68D1 73B8
AUD_SPDIF_OUT_CHIP	AUD_SPDIF_OUT_CHIP - @m38_lib.M38	68D4
AUD_SPDIF_OUT_EMI	AUD_SPDIF_OUT_EMI - @m38_lib.M38	73B7
AUD_SPDIF_OUT_JACK	AUD_SPDIF_OUT_JACK - @m38_lib.M38	73B5
AUD_SPKR_OUTL_N	AUD_SPKR_OUTL_N - @m38_lib.M38	72C1 73D3
AUD_SPKR_OUTL_P	AUD_SPKR_OUTL_P - @m38_lib.M38	72C1 73D3
AUD_SPKR_OUTR_N	AUD_SPKR_OUTR_N - @m38_lib.M38	72C1 73D3
AUD_SPKR_OUTR_P	AUD_SPKR_OUTR_P - @m38_lib.M38	72C1 73D3
AUD_TYPE_DET_EN	AUD_TYPE_DET_EN - @m38_lib.M38	74B3
AUD_VREF_FILT	AUD_VREF_FILT - @m38_lib.M38	68C4
AUD_VREF_PORT_B	AUD_VREF_PORT_B - @m38_lib.M38	68C1 74A3
BAL_IN_COM	BAL_IN_COM - @m38_lib.M38	68C7 74A7
BAL_IN_L	BAL_IN_L - @m38_lib.M38	68C7 74A7
BAL_IN_R	BAL_IN_R - @m38_lib.M38	68C7 74A7
BAT_1	BAT_1 - @m38_lib.M38	26C8
BAT_2	BAT_2 - @m38_lib.M38	26C8
BEEP	BEEP - @m38_lib.M38	68C6
BIOS_REC	BIOS_REC - @m38_lib.M38	23A6 23C5
BOOT_LPC_SPI_L	BOOT_LPC_SPI_L - @m38_lib.M38	22B3 58C7 60C6
C8509_P1	C8509_P1 - @m38_lib.M38	85C5
CEN	CEN - @m38_lib.M38	68B5 74B6
CK410_27M_NONSPREAD	CK410_27M_NONSPREAD - @m38_lib.M38	34A4 92C7
CK410_27M_SPREAD	CK410_27M_SPREAD - @m38_lib.M38	34A4 92C5
	GPU_GPIO_16 - @m38_lib.M38	91C3 92C3
CK410_CLK14P3M_TIMER	CK410_CLK14P3M_TIMER - @m38_lib.M38	33A4 34D6
CK410_CPU0_N	CK410_CPU0_N - @m38_lib.M38	33C4 34B6
CK410_CPU0_P	CK410_CPU0_P - @m38_lib.M38	33C4 34B6
CK410_CPU1_N	CK410_CPU1_N - @m38_lib.M38	33C4 34B6
CK410_CPU1_P	CK410_CPU1_P - @m38_lib.M38	33C4 34B6
CK410_CPU2_ITP_SRC10_N	CK410_CPU2_ITP_SRC10_N - @m38_lib.M38	33C4 34B6
CK410_CPU2_ITP_SRC10_P	CK410_CPU2_ITP_SRC10_P - @m38_lib.M38	33C4 34B6
CK410_DOT96_27M_NONSPREAD_P	CK410_DOT96_27M_NONSPREAD_P - @m38_lib.M38	33A4 34A6
CK410_DOT96_27M_SPREAD_N	CK410_DOT96_27M_SPREAD_N - @m38_lib.M38	33A4 34A6
CK410_FSA	CK410_FSA - @m38_lib.M38	34B8 34C4
CK410_FSB_TEST_MODE	CK410_FSB_TEST_MODE - @m38_lib.M38	33C6 34A8
CK410_FSC	CK410_FSC - @m38_lib.M38	34A8 34D4
CK410_IREF	CK410_IREF - @m38_lib.M38	33B6
CK410_LVDS_N	CK410_LVDS_N - @m38_lib.M38	33B4 34A6
	TP_CK410_LVDS_N - @m38_lib.M38	34A4
CK410_LVDS_P	CK410_LVDS_P - @m38_lib.M38	33B4 34A6
	TP_CK410_LVDS_P - @m38_lib.M38	34A4
CK410_PCI1_CLK	CK410_PCI1_CLK - @m38_lib.M38	33B6 34C6
CK410_PCI2_CLK	CK410_PCI2_CLK - @m38_lib.M38	33B6 34C6
CK410_PCI3_CLK	CK410_PCI3_CLK - @m38_lib.M38	33B6 34C6
CK410_PCI4_CLK	CK410_PCI4_CLK - @m38_lib.M38	33B6 34C6
CK410_PCI5_FCTSEL1	CK410_PCI5_FCTSEL1 - @m38_lib.M38	33B6 34D6
CK410_PCIF0_CLK	CK410_PCIF0_CLK - @m38_lib.M38	33B8 34B6
CK410_PCIF1_ITP_EN	CK410_PCIF1_ITP_EN - @m38_lib.M38	33B8 34B6
CK410_PD_VTT_PWRGD_L	CK410_PD_VTT_PWRGD_L - @m38_lib.M38	26A8 33A4
	VR_PWRGD_CK410_L - @m38_lib.M38	26A7 75C6
CK410_REF1_FCTSEL0	CK410_REF1_FCTSEL0 - @m38_lib.M38	33A4 34C6
CK410_SRC1_N	CK410_SRC1_N - @m38_lib.M38	33B4 34A6
CK410_SRC1_P	CK410_SRC1_P - @m38_lib.M38	33B4 34A6
CK410_SRC2_N	CK410_SRC2_N - @m38_lib.M38	33B4 34A6
CK410_SRC2_P	CK410_SRC2_P - @m38_lib.M38	33B4 34A6
CK410_SRC3_N	CK410_SRC3_N - @m38_lib.M38	33B4 34D3
CK410_SRC3_P	CK410_SRC3_P - @m38_lib.M38	33B4 34D3
CK410_SRC4_N	CK410_SRC4_N - @m38_lib.M38	33B4 34B6
CK410_SRC4_P	CK410_SRC4_P - @m38_lib.M38	33B4 34B6
CK410_SRC5_N	CK410_SRC5_N - @m38_lib.M38	33B4 34B6
CK410_SRC5_P	CK410_SRC5_P - @m38_lib.M38	33B4 34B6
CK410_SRC6_N	CK410_SRC6_N - @m38_lib.M38	33B4 34B6
CK410_SRC6_P	CK410_SRC6_P - @m38_lib.M38	33B4 34B6
CK410_SRC7_N	CK410_SRC7_N - @m38_lib.M38	33B4 34D3
CK410_SRC7_P	CK410_SRC7_P - @m38_lib.M38	33B4 34D3
CK410_SRC8_N	CK410_SRC8_N - @m38_lib.M38	33A4 34A6
CK410_SRC8_P	CK410_SRC8_P - @m38_lib.M38	33A4 34A6
CK410_SRC_CLKREQ1_L	CK410_SRC_CLKREQ1_L - @m38_lib.M38	33B4 34D8
CK410_SRC_CLKREQ3_L	CK410_SRC_CLKREQ3_L - @m38_lib.M38	33B4 34D8
CK410_SRC_CLKREQ6_L	CK410_SRC_CLKREQ6_L - @m38_lib.M38	33B4 53C6
CK410_SRC_CLKREQ8_L	CK410_SRC_CLKREQ8_L - @m38_lib.M38	33A4 34D8
CK410_USB48_FSA	CK410_USB48_FSA - @m38_lib.M38	33A4 34C6
CK410_XTAL_IN	CK410_XTAL_IN - @m38_lib.M38	33C6
CK410_XTAL_OUT	CK410_XTAL_OUT - @m38_lib.M38	33C6
CLK_NB_OE_L	CLK_NB_OE_L - @m38_lib.M38	14B6 33B4
CPUVCORE_ISENSE_CAL	CPUVCORE_ISENSE_CAL - @m38_lib.M38	76A5
CPU_A20M_L	CPU_A20M_L - @m38_lib.M38	5C8 7C7 21C4
CPU_BSEL<0>	CPU_BSEL<0> - @m38_lib.M38	7B4 34B8
CPU_BSEL<1>	CPU_BSEL<1> - @m38_lib.M38	7B4 34A8
CPU_BSEL<2>	CPU_BSEL<2> - @m38_lib.M38	7B4 34A8
CPU_COMP<0>	CPU_COMP<0> - @m38_lib.M38	7B2
CPU_COMP<1>	CPU_COMP<1> - @m38_lib.M38	7B2
CPU_COMP<2>	CPU_COMP<2> - @m38_lib.M38	7B2
CPU_COMP<3>	CPU_COMP<3> - @m38_lib.M38	7B2
CPU_DCIN_SENSE	CPU_DCIN_SENSE - @m38_lib.M38	76D7
CPU_DPRSTP_L	CPU_DPRSTP_L - @m38_lib.M38	7B3 21C4 75C6
CPU_DPSLP_L	CPU_DPSLP_L - @m38_lib.M38	7B3 21C4
CPU_FERR_L	CPU_FERR_L - @m38_lib.M38	7C7 21C2
CPU_GTLREF	CPU_GTLREF - @m38_lib.M38	5D4 7B4
CPU_HS_ZH607	CPU_HS_ZH607 - @m38_lib.M38	9D4
CPU_HS_ZH608	CPU_HS_ZH608 - @m38_lib.M38	9D3 66A4 66A6 66B4 66B6
CPU_HS_ZH609	CPU_HS_ZH609 - @m38_lib.M38	9D3
CPU_HS_ZH610	CPU_HS_ZH610 - @m38_lib.M38	9D2
CPU_IGNNE_L	CPU_IGNNE_L - @m38_lib.M38	5C8 7C7 21C4
CPU_INIT_L	CPU_INIT_L - @m38_lib.M38	5C8 7D6 21C4
CPU_INTR	CPU_INTR - @m38_lib.M38	5C8 7C7 21C4
CPU_ISENSE_OUT_R	CPU_ISENSE_OUT_R - @m38_lib.M38	76D3
CPU_ISENSE_R_NEG	CPU_ISENSE_R_NEG - @m38_lib.M38	76D4
CPU_ISENSE_R_POS	CPU_ISENSE_R_POS - @m38_lib.M38	76D4
CPU_NMI	CPU_NMI - @m38_lib.M38	5C8 7C7 21C4
CPU_PROCHOT_L	CPU_PROCHOT_L - @m38_lib.M38	7C6 59A8 59C7
CPU_PSI_L	CPU_PSI_L - @m38_lib.M38	7A3 75C6
CPU_PWRGD	CPU_PWRGD - @m38_lib.M38	7B3 21C4
CPU_RCIN_L	CPU_RCIN_L - @m38_lib.M38	21C4
CPU_SENSE_I_R	CPU_SENSE_I_R - @m38_lib.M38	76D7
CPU_SMI_L	CPU_SMI_L - @m38_lib.M38	5C8 7C7 21C4
CPU_STPCLK_L	CPU_STPCLK_L - @m38_lib.M38	5C8 7C7 21C4
CPU_TEST1	CPU_TEST1 - @m38_lib.M38	7B4
CPU_TEST2	CPU_TEST2 - @m38_lib.M38	7B4
CPU_THERMD_EXT_N	CPU_THERMD_EXT_N - @m38_lib.M38	10B6
CPU_THERMD_EXT_P	CPU_THERMD_EXT_P - @m38_lib.M38	10B6
CPU_THERMD_N	CPU_THERMD_N - @m38_lib.M38	7C6 10C6
CPU_THERMD_P	CPU_THERMD_P - @m38_lib.M38	7C6 10C6
CPU_THERMTRIP_R	CPU_THERMTRIP_R - @m38_lib.M38	21C2
CPU_VCCSENSE_N	CPU_VCCSENSE_N - @m38_lib.M38	8B6 75A4
CPU_VCCSENSE_P	CPU_VCCSENSE_P - @m38_lib.M38	8B6 75A4
CPU_VID<0>	CPU_VID<0> - @m38_lib.M38	8B7 75C7
CPU_VID<1>	CPU_VID<1> - @m38_lib.M38	8B7 75C7
CPU_VID<2>	CPU_VID<2> - @m38_lib.M38	8B7 75C7
CPU_VID<3>	CPU_VID<3> - @m38_lib.M38	8B7 75C7
CPU_VID<4>	CPU_VID<4> - @m38_lib.M38	8B7 75C7
CPU_VID<5>	CPU_VID<5> - @m38_lib.M38	8B7 75C7
CPU_VID<6>	CPU_VID<6> - @m38_lib.M38	8B7 75D7
CPU_XDP_CLK_N	CPU_XDP_CLK_N - @m38_lib.M38	11B3 34B3
	FSB_CLK_XDP_N - @m38_lib.M38	34B4 34C2
CPU_XDP_CLK_P	CPU_XDP_CLK_P - @m38_lib.M38	11B3 34B3
	FSB_CLK_XDP_P - @m38_lib.M38	34B4 34C2
CRB_SV_DET	CRB_SV_DET - @m38_lib.M38	23B6 23C3
CRT_BLUE	CRT_BLUE - @m38_lib.M38	13B5 19D4
	=PPVCORE_S0_NB - @m38_lib.M38	6D4 16C8 16D3 19B6 19D5 19D7
	CRT_BLUE_L - @m38_lib.M38	13B5 19D4
	CRT_IREF - @m38_lib.M38	13B5 19D4
	CRT_GREEN_L - @m38_lib.M38	13B5 19D4
	CRT_GREEN - @m38_lib.M38	13B5 19D4
	PP2V5_S0_NB_VCCA_CRTDAC - @m38_lib.M38	17D6 19D4
	CRT_RED - @m38_lib.M38	13B5 19D4
	CRT_RED_L - @m38_lib.M38	13B5 19D4
	PP1V05_S0 - @m38_lib.M38	6D6 34A8 34B8 34C7 81C2
	=PP1V05_S0_CPU - @m38_lib.M38	5D4 6D4 7B5 7B7 7D5 7D5 8C7 9C8 9C8 11B3 11C5 59A1 59A3
	=PPVCORE_S0_SB - @m38_lib.M38	6D4 24D3 25D3
	=PP1V05_S0_SB_CPU_IO - @m38_lib.M38	6D4 21C1 21C1 24C3 25C3
	=PP1V05_S0_NB_VTT - @m38_lib.M38	6D4 17D3 19B8 19D7
	=PP1V05_S0_FSB_NB - @m38_lib.M38	5D4 6D4 12A7 12B7 12C2 19D7
	PP2V5_S0_NB_VCCA_CRTDAC - @m38_lib.M38	17D6 19D4
	PP1V05_S0 - @m38_lib.M38	6D6 34A8 34B8 34C7 81C2
	CRT_RED_L - @m38_lib.M38	13B5 19D4
	CRT_RED - @m38_lib.M38	13B5 19D4
	CRT_IREF - @m38_lib.M38	13B5 19D4
	CRT_GREEN_L - @m38_lib.M38	13B5 19D4
	CRT_GREEN - @m38_lib.M38	13B5 19D4
	CRT_BLUE_L - @m38_lib.M38	13B5 19D4
	=PPVCORE_S0_SB - @m38_lib.M38	6D4 24D3 25D3
	=PPVCORE_S0_NB - @m38_lib.M38	6D4 16C8 16D3 19B6 19D5 19D7
	=PP1V05_S0_SB_CPU_IO - @m38_lib.M38	6D4 21C1 21C1 24C3 25C3
	=PP1V05_S0_NB_VTT - @m38_lib.M38	6D4 17D3 19B8 19D7
	=PP1V05_S0_NB - @m38_lib.M38	6D4 19D7
	=PP1V05_S0_FSB_NB - @m38_lib.M38	5D4 6D4 12A7 12B7 12C2 19D7
	=PP1V05_S0_CPU - @m38_lib.M38	5D4 6D4 7B5 7B7 7D5 7D5 8C7 9C8 9C8 11B3 11C5 59A1 59A3
CRT_DDC_CLK	CRT_DDC_CLK - @m38_lib.M38	13B5 19C4
	TP_CRT_DDC_CLK - @m38_lib.M38	19C5
CRT_DDC_DATA	CRT_DDC_DATA - @m38_lib.M38	13B5 19C4
	TP_CRT_DDC_DATA - @m38_lib.M38	19C5
DEBUG_RST_L	DEBUG_RST_L - @m38_lib.M38	6A7 60B6
DMI_IRCOMP_R	DMI_IRCOMP_R - @m38_lib.M38	22C2
DMI_N2S_N<0>	DMI_N2S_N<0> - @m38_lib.M38	5B8 14B4 22D2
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DVI_DDC_CLK_UF	DVI_DDC_CLK_UF - @m38_lib.M38	97D3 97D5
DVI_DDC_DATA	DVI_DDC_DATA - @m38_lib.M38	97C2
DVI_DDC_DATA_UF	DVI_DDC_DATA_UF - @m38_lib.M38	97C3 97D5
DVI_HPD_UF	DVI_HPD_UF - @m38_lib.M38	97C3 97D5
ENET_C4106_2	ENET_C4106_2 - @m38_lib.M38	41D2
ENET_C4107_2	ENET_C4107_2 - @m38_lib.M38	41D2
ENET_C4117_1	ENET_C4117_1 - @m38_lib.M38	41B2
ENET_C4118_1	ENET_C4118_1 - @m38_lib.M38	41B2
ENET_CLK100M_PCIE_N	ENET_CLK100M_PCIE_N - @m38_lib.M38	5D5 34A4 34B2 41C5
ENET_CLK100M_PCIE_P	ENET_CLK100M_PCIE_P - @m38_lib.M38	5D5 34A4 34B2 41C5
ENET_CTRL12	ENET_CTRL12 - @m38_lib.M38	41C7 42B8
	TP_ENET_CTRL12 - @m38_lib.M38	42B7
ENET_CTRL25	ENET_CTRL25 - @m38_lib.M38	41C7 42C6
ENET_GATED_RST_L	ENET_GATED_RST_L - @m38_lib.M38	41C5 42D2
ENET_LED_ACT_L	ENET_LED_ACT_L - @m38_lib.M38	41C8 43C3
ENET_LED_LINK10_100_L	ENET_LED_LINK10_100_L - @m38_lib.M38	41C8 43C3
ENET_LED_LINK1000_L	ENET_LED_LINK1000_L - @m38_lib.M38	41C8 43C3
ENET_LED_LINK_L	ENET_LED_LINK_L - @m38_lib.M38	41C8 43C3
ENET_LOM_DIS_L	ENET_LOM_DIS_L - @m38_lib.M38	41C7
ENET_MDI_N<0>	ENET_MDI_N<0> - @m38_lib.M38	41C2 43C7
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ENET_PU_VDDO_TTL1	ENET_PU_VDDO_TTL1 - @m38_lib.M38	41C5
ENET_RSET	ENET_RSET - @m38_lib.M38	41C7
ENET_RST_L	ENET_RST_L - @m38_lib.M38	6B7 42D3
ENET_VPD_CLK	ENET_VPD_CLK - @m38_lib.M38	41A2 41C4
ENET_VPD_DATA	ENET_VPD_DATA - @m38_lib.M38	41A2 41C4
ENET_XTALI	ENET_XTALI - @m38_lib.M38	41B5
ENET_XTALO	ENET_XTALO - @m38_lib.M38	41B5
F0_GATESLOWDN	F0_GATESLOWDN - @m38_lib.M38	65D5
F0_RCFEEDBK	F0_RCFEEDBK - @m38_lib.M38	65C5
F0_VOLTAGE8R5	F0_VOLTAGE8R5 - @m38_lib.M38	65D6
F1_GATESLOWDN	F1_GATESLOWDN - @m38_lib.M38	65B5
F1_RCFEEDBK	F1_RCFEEDBK - @m38_lib.M38	65B5
F1_VOLTAGE8R5	F1_VOLTAGE8R5 - @m38_lib.M38	65B6
F2_GATESLOWDN	F2_GATESLOWDN - @m38_lib.M38	66D4
F2_RCFEEDBK	F2_RCFEEDBK - @m38_lib.M38	66C5
F2_VOLTAGE8R5	F2_VOLTAGE8R5 - @m38_lib.M38	66D5
FAN_0_OUT	FAN_0_OUT - @m38_lib.M38	65C4
FAN_0_PWR	FAN_0_PWR - @m38_lib.M38	65C4
FAN_1_CTL	FAN_1_CTL - @m38_lib.M38	65B7
	FAN_RPM1 - @m38_lib.M38	65B7
FAN_1_OUT	FAN_1_OUT - @m38_lib.M38	65B4
FAN_1_PWR	FAN_1_PWR - @m38_lib.M38	65B3
FAN_2_CTL	FAN_2_CTL - @m38_lib.M38	66D7
	FAN_RPM2 - @m38_lib.M38	66C7
FAN_2_OUT	FAN_2_OUT - @m38_lib.M38	66C4
FAN_2_PWR	FAN_2_PWR - @m38_lib.M38	66C3
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FAN_TACH2	FAN_TACH2 - @m38_lib.M38	66C7
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FSB_D_L<32>	FSB_D_L<32> - @m38_lib.M38	7C2 12C6
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FSB_D_L<41>	FSB_D_L<41> - @m38_lib.M38	5D7 5D8 7C2 12B6
FSB_D_L<42>	FSB_D_L<42> - @m38_lib.M38	7C2 12B6
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FSB_D_L<58>	FSB_D_L<58> - @m38_lib.M38	7B2 12B6
FSB_D_L<59>	FSB_D_L<59> - @m38_lib.M38	5D7 5D8 7B2 12B6
FSB_D_L<60>	FSB_D_L<60> - @m38_lib.M38	7B2 12B6
FSB_D_L<61>	FSB_D_L<61> - @m38_lib.M38	7B2 12B6
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FSB_D_L<63>	FSB_D_L<63> - @m38_lib.M38	7B2 12B6
FSB_HITM_L	FSB_HITM_L - @m38_lib.M38	5C7 7D6 12B4
FSB_HIT_L	FSB_HIT_L - @m38_lib.M38	5C7 7D6 12B4
FSB_IERR_L	FSB_IERR_L - @m38_lib.M38	7D6
FSB_LOCK_L	FSB_LOCK_L - @m38_lib.M38	5D7 5D8 7D6 12B4
FSB_REQ_L<0>	FSB_REQ_L<0> - @m38_lib.M38	5C7 7D7 12B4
FSB_REQ_L<1>	FSB_REQ_L<1> - @m38_lib.M38	5C7 7D7 12B4
FSB_REQ_L<2>	FSB_REQ_L<2> - @m38_lib.M38	5C7 7D7 12A4
FSB_REQ_L<3>	FSB_REQ_L<3> - @m38_lib.M38	5C7 7D7 12A4
FSB_REQ_L<4>	FSB_REQ_L<4> - @m38_lib.M38	5C7 7D7 12A4
FSB_RS_L<0>	FSB_RS_L<0> - @m38_lib.M38	7D6 12A4
FSB_RS_L<1>	FSB_RS_L<1> - @m38_lib.M38	7D6 12A4
FSB_RS_L<2>	FSB_RS_L<2> - @m38_lib.M38	7D6 12A4
FSB_SLPCPU_L	FSB_SLPCPU_L - @m38_lib.M38	7A3 12A4
FSB_TRDY_L	FSB_TRDY_L - @m38_lib.M38	7D6 12A4
FWH_INIT_L	FWH_INIT_L - @m38_lib.M38	21C4 59C5 60C3
	SMC_CPU_INIT_3_3_L - @m38_lib.M38	58D5 59C6
FWH_MFG_MODE	FWH_MFG_MODE - @m38_lib.M38	23A6 23C5
FW_A_TPA_N	FW_A_TPA_N - @m38_lib.M38	44C3 46C8
	FW_PORT0_TPA_N - @m38_lib.M38	46C5 46C6
FW_A_TPA_P	FW_A_TPA_P - @m38_lib.M38	44C3 46C8
	FW_PORT0_TPA_P - @m38_lib.M38	46C5 46C6
FW_A_TPBIAS	FW_A_TPBIAS - @m38_lib.M38	44C4 46C8
FW_A_TPB_N	FW_A_TPB_N - @m38_lib.M38	44C3 46C8
	FW_PORT0_TPB_N - @m38_lib.M38	46C5 46C6
FW_A_TPB_P	FW_A_TPB_P - @m38_lib.M38	44C3 46C8
	FW_PORT0_TPB_P - @m38_lib.M38	46C5 46C6
FW_B_TPA_N	FW_B_TPA_N - @m38_lib.M38	44C3 46C8
	FW_PORT1_TPA_N - @m38_lib.M38	46B5 46C6
FW_B_TPA_P	FW_B_TPA_P - @m38_lib.M38	44C3 46C8
	FW_PORT1_TPA_P - @m38_lib.M38	46B5 46C6
FW_B_TPBIAS	FW_B_TPBIAS - @m38_lib.M38	44C4 46C8
FW_B_TPB_N	FW_B_TPB_N - @m38_lib.M38	44C3 46C8
	FW_PORT1_TPB_N - @m38_lib.M38	46B5 46C6
FW_B_TPB_P	FW_B_TPB_P - @m38_lib.M38	44C3 46C8
	FW_PORT1_TPB_P - @m38_lib.M38	46B5 46C6
FW_CARDBUS_L	FW_CARDBUS_L - @m38_lib.M38	44B5
FW_CONTENDER	FW_CONTENDER - @m38_lib.M38	44B3
FW_CPS	FW_CPS - @m38_lib.M38	44C3
FW_C_TPA_N	FW_C_TPA_N - @m38_lib.M38	44C3 46B8
	TP_FW_C_TPA_N - @m38_lib.M38	46B7
FW_C_TPA_P	FW_C_TPA_P - @m38_lib.M38	44C3 46B8
	TP_FW_C_TPA_P - @m38_lib.M38	46B7
FW_C_TPBIAS	FW_C_TPBIAS - @m38_lib.M38	44C4 46B8
	TP_FW_C_TPBIAS - @m38_lib.M38	46B7
FW_C_TPB_N	FW_C_TPB_N - @m38_lib.M38	44C3 46A8
	TP_FW_C_TPB_N - @m38_lib.M38	46A7
FW_C_TPB_P	FW_C_TPB_P - @m38_lib.M38	44C3 46A8
	TP_FW_C_TPB_P - @m38_lib.M38	46A7
FW_PC0	FW_PC0 - @m38_lib.M38	44B3
FW_PC1	FW_PC1 - @m38_lib.M38	44B3
FW_PC2	FW_PC2 - @m38_lib.M38	44B3
FW_PORT0_TPA_FL_N	FW_PORT0_TPA_FL_N - @m38_lib.M38	46C2
FW_PORT0_TPA_FL_P	FW_PORT0_TPA_FL_P - @m38_lib.M38	46C2
FW_PORT0_TPB_FL_N	FW_PORT0_TPB_FL_N - @m38_lib.M38	46C2
FW_PORT0_TPB_FL_P	FW_PORT0_TPB_FL_P - @m38_lib.M38	46C2
FW_PORT1_TPA_FL_N	FW_PORT1_TPA_FL_N - @m38_lib.M38	46B2
FW_PORT1_TPA_FL_P	FW_PORT1_TPA_FL_P - @m38_lib.M38	46B2
FW_PORT1_TPB_FL_N	FW_PORT1_TPB_FL_N - @m38_lib.M38	46B2
FW_PORT1_TPB_FL_P	FW_PORT1_TPB_FL_P - @m38_lib.M38	46B2
FW_R0	FW_R0 - @m38_lib.M38	44C4
FW_R1	FW_R1 - @m38_lib.M38	44C4
FW_RESET_L	FW_RESET_L - @m38_lib.M38	44C2 44C3
FW_ROM_CLK	FW_ROM_CLK - @m38_lib.M38	44B4
FW_SE	FW_SE - @m38_lib.M38	44B3
FW_SM	FW_SM - @m38_lib.M38	44B3
FW_TEST	FW_TEST - @m38_lib.M38	44B3
FW_TPA_C<0>	FW_TPA_C<0> - @m38_lib.M38	46B8
FW_TPA_C<1>	FW_TPA_C<1> - @m38_lib.M38	46B7
FW_VP	FW_VP - @m38_lib.M38	46D4
FW_VP_R	FW_VP_R - @m38_lib.M38	46D5
FW_XTAL_X0	FW_XTAL_X0 - @m38_lib.M38	44D2 44D3
FW_XTAL_XI	FW_XTAL_XI - @m38_lib.M38	44D2 44D3
FW_XTAL_XR	FW_XTAL_XR - @m38_lib.M38	44D2
GATE_3V3_S3	GATE_3V3_S3 - @m38_lib.M38	83B4
GATE_5V_S3	GATE_5V_S3 - @m38_lib.M38	83C4
GND_AUDIO	GND_AUDIO - @m38_lib.M38	6C2 74D2
GND_AUDIO_CODEC	GND_AUDIO_CODEC - @m38_lib.M38	68A6 68B7 68D2 72B8 72C8
		73A8 73C2 73D4 74A3 74A5
		74A6 74A7 74B5 74B7 74C1
		74C2 74C8 74D1
GND_AUDIO_MIC_CONN	GND_AUDIO_MIC_CONN - @m38_lib.M38	47C2 73C4
GND_AUDIO_SPKRAMP	GND_AUDIO_SPKRAMP - @m38_lib.M38	6C2 72B1 74D2
GND_AUDIO_SPKRAMP_PL	GND_AUDIO_SPKRAMP_PLANE -	72A6 72B2 72B6 72D2 72D8
ANE	@m38_lib.M38	74C2
GND_BNDI	GND_BNDI - @m38_lib.M38	47B2 47D2
GND_CHASSIS_AUDIO_EX	GND_CHASSIS_AUDIO_EXTERNAL -	6B2 73A8 73C7 73D8 74C1
TERNAL	@m38_lib.M38	74D2
	GND_CHASSIS_IO_LEFT - @m38_lib.M38	6B2
	GND_CHASSIS_USB - @m38_lib.M38	6B2 47A4 47B4 47C4
	GND_CHASSIS_IO_LEFT - @m38_lib.M38	6B2
GND_CHASSIS_AUDIO_IN	GND_CHASSIS_AUDIO_INTERNAL -	6A2 73C6
TERNAL	@m38_lib.M38	
	GND_CHASSIS_BNDI - @m38_lib.M38	6A2 47C2 47C2 47D2
GND_CHASSIS_FIREWIRE	GND_CHASSIS_FIREWIRE - @m38_lib.M38	6B2 46A1 46C1
	GND_CHASSIS_RJ45 - @m38_lib.M38	6B2 43C6
	GND_CHASSIS_VGA - @m38_lib.M38	6B2 97C4
	GND_CHASSIS_RJ45 - @m38_lib.M38	6B2 43C6
	GND_CHASSIS_IO_RIGHT - @m38_lib.M38	6B1
GND_CPU_ISENSE_OPAMP	GND_CPU_ISENSE_OPAMP - @m38_lib.M38	76D3
GND_GPUVCORE_SGND	GND_GPUVCORE_SGND - @m38_lib.M38	85C7
GND_GPU_A2VSSN	GND_GPU_A2VSSN - @m38_lib.M38	93B7
GND_GPU_A2VSSQ	GND_GPU_A2VSSQ - @m38_lib.M38	93B7
GND_GPU_AVSSN	GND_GPU_AVSSN - @m38_lib.M38	93C7
GND_GPU_AVSSQ	GND_GPU_AVSSQ - @m38_lib.M38	93C7
GND_GPU_LPVSS	GND_GPU_LPVSS - @m38_lib.M38	93B7
GND_GPU_LVSSR	GND_GPU_LVSSR - @m38_lib.M38	93A7
GND_GPU_MPVSS	GND_GPU_MPVSS - @m38_lib.M38	91A5
GND_GPU_PCIE_PVSS	GND_GPU_PCIE_PVSS - @m38_lib.M38	84B8
GND_GPU_PVSS	GND_GPU_PVSS - @m38_lib.M38	91A5
GND_GPU_TPVSS	GND_GPU_TPVSS - @m38_lib.M38	93C7
GND_GPU_TXVSSR	GND_GPU_TXVSSR - @m38_lib.M38	93C7
GND_GPU_VSSRH0	GND_GPU_VSSRH0 - @m38_lib.M38	87A7
GND_GPU_VSSRH1	GND_GPU_VSSRH1 - @m38_lib.M38	87A4
GND_IMVP6_SGND	GND_IMVP6_SGND - @m38_lib.M38	75A4 75B6 75B8 75D7
GND_NB_VSSA_LVDS	GND_NB_VSSA_LVDS - @m38_lib.M38	17C6 19C2
	TP_GND_NB_VSSA_LVDS - @m38_lib.M38	19C1
GND_NEXT_TO_SMC	GND_NEXT_TO_SMC - @m38_lib.M38	59B2 76C2
GND_SMC_AVSS	GND_SMC_AVSS - @m38_lib.M38	58B2 58C4 59A3 59B3 76B2
		76B6 76C2 76C5 85C1
GND_USB_PORT0	GND_USB_PORT0 - @m38_lib.M38	47D5
GND_USB_PORT1	GND_USB_PORT1 - @m38_lib.M38	47C5
GND_USB_PORT2	GND_USB_PORT2 - @m38_lib.M38	47A5
GPUBBN_D	GPUBBN_D - @m38_lib.M38	85A3
GPUBBN_D_RC	GPUBBN_D_RC - @m38_lib.M38	85A3
GPUBBN_FB	GPUBBN_FB - @m38_lib.M38	85A3
GPUBBN_SW	GPUBBN_SW - @m38_lib.M38	85A4
GPUBBP_ADJ	GPUBBP_ADJ - @m38_lib.M38	85B7
GPUBBP_ADJ_LOW	GPUBBP_ADJ_LOW - @m38_lib.M38	85A7
GPUBB_EN	GPUBB_EN - @m38_lib.M38	85A4 85A6 85B8
GPUBB_EN_L	GPUBB_EN_L - @m38_lib.M38	85A1 85A5 85B7
GPUISENS_NEG	GPUISENS_NEG - @m38_lib.M38	85D3
GPUISENS_NTC	GPUISENS_NTC - @m38_lib.M38	85D3
GPUISENS_POS	GPUISENS_POS - @m38_lib.M38	85D3
GPUISENS_RC	GPUISENS_RC - @m38_lib.M38	85D3
GPUVCORE_BOOT	GPUVCORE_BOOT - @m38_lib.M38	85C5
GPUVCORE_COMP	GPUVCORE_COMP - @m38_lib.M38	85C7
GPUVCORE_COMP_R	GPUVCORE_COMP_R - @m38_lib.M38	85C7
GPUVCORE_EN	GPUVCORE_EN - @m38_lib.M38	85C8 88A8
GPUVCORE_FB	GPUVCORE_FB - @m38_lib.M38	85C7
GPUVCORE_FB_LOW	GPUVCORE_FB_LOW - @m38_lib.M38	85C3
GPUVCORE_FCCM	GPUVCORE_FCCM - @m38_lib.M38	85C7
GPUVCORE_FSET	GPUVCORE_FSET - @m38_lib.M38	85C7
GPUVCORE_IOUT	GPUVCORE_IOUT - @m38_lib.M38	59C5 85D1
	SMC_GPU_ISENSE - @m38_lib.M38	58D5 59C6
GPUVCORE_ISEN	GPUVCORE_ISEN - @m38_lib.M38	85C5
GPUVCORE_ISENSE_CAL	GPUVCORE_ISENSE_CAL - @m38_lib.M38	76A4
GPUVCORE_LG	GPUVCORE_LG - @m38_lib.M38	85C5
GPUVCORE_PGOOD	GPUVCORE_PGOOD - @m38_lib.M38	77A4 85C8
GPUVCORE_PHASE	GPUVCORE_PHASE - @m38_lib.M38	85C5
GPUVCORE_UG	GPUVCORE_UG - @m38_lib.M38	85C5
GPU_B2	GPU_B2 - @m38_lib.M38	93B3 97B8
GPU_BB_EN	GPU_BB_EN - @m38_lib.M38	85A7
GPU_CLK27M	GPU_CLK27M - @m38_lib.M38	92C6
	GPU_XTALIN - @m38_lib.M38	91A5 92C5
GPU_CLK100M_PCIE_N	GPU_CLK100M_PCIE_N - @m38_lib.M38	5C6 34A4 34B2 84A5
GPU_CLK100M_PCIE_P	GPU_CLK100M_PCIE_P - @m38_lib.M38	5C6 34A4 34B2 84A5
GPU_DDC_A_CLK	GPU_DDC_A_CLK - @m38_lib.M38	93A3 97D1
GPU_DDC_A_DATA	GPU_DDC_A_DATA - @m38_lib.M38	93A3 97C1
GPU_DDC_B_CLK	GPU_DDC_B_CLK - @m38_lib.M38	88B1 93A3
	TP_GPU_DDC_B_CLK - @m38_lib.M38	88B3
GPU_DDC_B_DATA	GPU_DDC_B_DATA - @m38_lib.M38	88B1 93A3
	TP_GPU_DDC_B_DATA - @m38_lib.M38	88B3
GPU_DDC_C_CLK	GPU_DDC_C_CLK - @m38_lib.M38	93A1 93A3 94A7 94C7
GPU_DDC_C_DATA	GPU_DDC_C_DATA - @m38_lib.M38	93A1 93A3 94A6 94C7
GPU_DIGON	GPU_DIGON - @m38_lib.M38	91C3 94A4 94C8
GPU_EXT_TDIODE_N	GPU_EXT_TDIODE_N - @m38_lib.M38	61B7
GPU_EXT_TDIODE_P	GPU_EXT_TDIODE_P - @m38_lib.M38	61C7
GPU_G2	GPU_G2 - @m38_lib.M38	93B3 97A8
GPU_GENERICA	GPU_GENERICA - @m38_lib.M38	91C3 95B4
	TP_GPU_GENERICA - @m38_lib.M38	95B6
GPU_GENERICB	GPU_GENERICB - @m38_lib.M38	91C3 95B4
	TP_GPU_GENERICB - @m38_lib.M38	95B6
GPU_GENERICC	GPU_GENERICC - @m38_lib.M38	91C3 95B4
	TP_GPU_GENERICC - @m38_lib.M38	95B6
GPU_GENERICD	GPU_GENERICD - @m38_lib.M38	85A7 91C3
GPU_GPIO_0	GPU_GPIO_0 - @m38_lib.M38	88D5 91D3 94C3
GPU_GPIO_1	GPU_GPIO_1 - @m38_lib.M38	88D5 91D3
GPU_GPIO_2	GPU_GPIO_2 - @m38_lib.M38	88D5 91D3
GPU_GPIO_3	GPU_GPIO_3 - @m38_lib.M38	88D5 91D3
GPU_GPIO_4	GPU_GPIO_4 - @m38_lib.M38	88C5 91D3
GPU_GPIO_5	GPU_GPIO_5 - @m38_lib.M38	88C5 91D3
GPU_GPIO_6	GPU_GPIO_6 - @m38_lib.M38	88C5 91D3
GPU_GPIO_7	GPU_GPIO_7 - @m38_lib.M38	88C3 91D3
	TP_GPU_GPIO_7 - @m38_lib.M38	88C5
GPU_GPIO_8	GPU_GPIO_8 - @m38_lib.M38	88C5 91D3
GPU_GPIO_9	GPU_GPIO_9 - @m38_lib.M38	88C5 91C3
GPU_GPIO_10	GPU_GPIO_10 - @m38_lib.M38	88C3 91C3
	NC_GPU_GPIO_10 - @m38_lib.M38	88C5
GPU_GPIO_11	GPU_GPIO_11 - @m38_lib.M38	88B5 91C3
GPU_GPIO_12	GPU_GPIO_12 - @m38_lib.M38	88C5 91C3
GPU_GPIO_13	GPU_GPIO_13 - @m38_lib.M38	88C5 91C3
GPU_GPIO_14	GPU_GPIO_14 - @m38_lib.M38	88C1 91C3
	TP_GPU_GPIO_14 - @m38_lib.M38	88C3
GPU_GPIO_15	GPU_GPIO_15 - @m38_lib.M38	88B4 91C3
	GPU_VCORE_LOW - @m38_lib.M38	85B4 88B5
GPU_GPIO_17	GPU_GPIO_17 - @m38_lib.M38	88C1 91C3
	TP_GPU_GPIO_17 - @m38_lib.M38	88C3
GPU_GPIO_18	GPU_GPIO_18 - @m38_lib.M38	91D5 95B4
GPU_GPIO_19	GPU_GPIO_19 - @m38_lib.M38	91D5 95B4
GPU_GPIO_20	GPU_GPIO_20 - @m38_lib.M38	91D5 95B4
GPU_GPIO_21	GPU_GPIO_21 - @m38_lib.M38	91D5 95B4
GPU_GPIO_22	GPU_GPIO_22 - @m38_lib.M38	91D5 95B4
GPU_GPIO_23	GPU_GPIO_23 - @m38_lib.M38	91D5 95B4
GPU_GPIO_24	GPU_GPIO_24 - @m38_lib.M38	88B5 91D5
GPU_GPIO_25	GPU_GPIO_25 - @m38_lib.M38	91D5 95C4
GPU_GPIO_26	GPU_GPIO_26 - @m38_lib.M38	91D5 95C4
GPU_GPIO_27	GPU_GPIO_27 - @m38_lib.M38	88B5 91D5
GPU_GPIO_28	GPU_GPIO_28 - @m38_lib.M38	88B5 91D5
GPU_GPIO_29	GPU_GPIO_29 - @m38_lib.M38	88B5 91C5
GPU_GPIO_30	GPU_GPIO_30 - @m38_lib.M38	91C5 95C4
GPU_GPIO_31	GPU_GPIO_31 - @m38_lib.M38	91C5 95C4
GPU_GPIO_32	GPU_GPIO_32 - @m38_lib.M38	91C5 95C4
GPU_GPIO_33	GPU_GPIO_33 - @m38_lib.M38	91C5 95C4
GPU_GPIO_34	GPU_GPIO_34 - @m38_lib.M38	91C5 95C4
GPU_H2SYNC	GPU_H2SYNC - @m38_lib.M38	93B3 97A4
GPU_HPD	GPU_HPD - @m38_lib.M38	93A5 97C1
GPU_HSYNC_BUF	GPU_HSYNC_BUF - @m38_lib.M38	97A4
GPU_MEMTEST	GPU_MEMTEST - @m38_lib.M38	87A3
GPU_MVREFD0	GPU_MVREFD0 - @m38_lib.M38	87B7
GPU_MVREFD1	GPU_MVREFD1 - @m38_lib.M38	87B3
GPU_MVREFS0	GPU_MVREFS0 - @m38_lib.M38	87B7
GPU_MVREFS1	GPU_MVREFS1 - @m38_lib.M38	87B3
GPU_PCIE_CALI	GPU_PCIE_CALI - @m38_lib.M38	84A3
GPU_PCIE_CALRN	GPU_PCIE_CALRN - @m38_lib.M38	84A3
GPU_PCIE_CALRP	GPU_PCIE_CALRP - @m38_lib.M38	84A3
GPU_PWM_RST_L	GPU_PWM_RST_L - @m38_lib.M38	6C7 94B3
GPU_R2	GPU_R2 - @m38_lib.M38	93B3 97A8
GPU_TEST_MCLK	GPU_TEST_MCLK - @m38_lib.M38	87A3
GPU_TEST_YCLK	GPU_TEST_YCLK - @m38_lib.M38	87A3
GPU_TV_C	GPU_TV_C - @m38_lib.M38	88B1 93B3
	TP_GPU_TV_C - @m38_lib.M38	88B3
GPU_TV_COMP	GPU_TV_COMP - @m38_lib.M38	88B1 93B3
	TP_GPU_TV_COMP - @m38_lib.M38	88B3
GPU_TV_Y	GPU_TV_Y - @m38_lib.M38	88B1 93B3
	TP_GPU_TV_Y - @m38_lib.M38	88B3
GPU_V2SYNC	GPU_V2SYNC - @m38_lib.M38	93B3 97B4
GPU_VARY_BL	GPU_VARY_BL - @m38_lib.M38	91C3 94B4
GPU_VCORE_HIGH	GPU_VCORE_HIGH - @m38_lib.M38	85A8 85B4
GPU_VCORE_HIGH_RC	GPU_VCORE_HIGH_RC - @m38_lib.M38	85B3
GPU_VGA_B	GPU_VGA_B - @m38_lib.M38	88C1 93C3
	TP_GPU_VGA_B - @m38_lib.M38	88C3
GPU_VGA_G	GPU_VGA_G - @m38_lib.M38	88C1 93C3
	TP_GPU_VGA_G - @m38_lib.M38	88C3
GPU_VGA_HSYNC	GPU_VGA_HSYNC - @m38_lib.M38	88B1 93B3
	TP_GPU_VGA_HSYNC - @m38_lib.M38	88B3
GPU_VGA_R	GPU_VGA_R - @m38_lib.M38	88C1 93C3
	TP_GPU_VGA_R - @m38_lib.M38	88C3
GPU_VGA_VSYNC	GPU_VGA_VSYNC - @m38_lib.M38	88B1 93B3
	TP_GPU_VGA_VSYNC - @m38_lib.M38	88B3
GPU_VSYNC_BUF	GPU_VSYNC_BUF - @m38_lib.M38	97A4
GPU_XTALOUT	GPU_XTALOUT - @m38_lib.M38	91A5
I2C_ALS_SCL	I2C_ALS_SCL - @m38_lib.M38	59B1 59C8
	SMB_A_S3_CLK - @m38_lib.M38	58B5 59B2 59D1
I2C_ALS_SDA	I2C_ALS_SDA - @m38_lib.M38	59B1 59C8
	SMB_A_S3_DATA - @m38_lib.M38	58B5 59B2 59D1
IDE_CSEL_PD	IDE_CSEL_PD - @m38_lib.M38	38C3
IDE_DASP_L	IDE_DASP_L - @m38_lib.M38	38C3
IDE_DASP_L_DS	IDE_DASP_L_DS - @m38_lib.M38	38B3
IDE_IOCS16_PU	IDE_IOCS16_PU - @m38_lib.M38	38C1
IDE_IRQ14	IDE_IRQ14 - @m38_lib.M38	21B6 38C4
IDE_PDA<0>	IDE_PDA<0> - @m38_lib.M38	21B5 38C3
IDE_PDA<1>	IDE_PDA<1> - @m38_lib.M38	21B5 38C3
IDE_PDA<2>	IDE_PDA<2> - @m38_lib.M38	21B5 38C1
IDE_PDCS1_L	IDE_PDCS1_L - @m38_lib.M38	21B5 38C3
IDE_PDCS3_L	IDE_PDCS3_L - @m38_lib.M38	21B5 38C1
IDE_PDD<0>	IDE_PDD<0> - @m38_lib.M38	21C5 38C3
IDE_PDD<1>	IDE_PDD<1> - @m38_lib.M38	21B5 38C3
IDE_PDD<2>	IDE_PDD<2> - @m38_lib.M38	21B5 38D3
IDE_PDD<3>	IDE_PDD<3> - @m38_lib.M38	21B5 38D3
IDE_PDD<4>	IDE_PDD<4> - @m38_lib.M38	21B5 38D3
IDE_PDD<5>	IDE_PDD<5> - @m38_lib.M38	21B5 38D3
IDE_PDD<6>	IDE_PDD<6> - @m38_lib.M38	21B5 38D3
IDE_PDD<7>	IDE_PDD<7> - @m38_lib.M38	21B5 38D3
IDE_PDD<8>	IDE_PDD<8> - @m38_lib.M38	21B5 38D1
IDE_PDD<9>	IDE_PDD<9> - @m38_lib.M38	5C8 21B5 38D1
IDE_PDD<10>	IDE_PDD<10> - @m38_lib.M38	21B5 38D1
IDE_PDD<11>	IDE_PDD<11> - @m38_lib.M38	21B5 38D1
IDE_PDD<12>	IDE_PDD<12> - @m38_lib.M38	21B5 38D1
IDE_PDD<13>	IDE_PDD<13> - @m38_lib.M38	21B5 38D1
IDE_PDD<14>	IDE_PDD<14> - @m38_lib.M38	21B5 38D1
IDE_PDD<15>	IDE_PDD<15> - @m38_lib.M38	21B5 38C1
IDE_PDDACK_L	IDE_PDDACK_L - @m38_lib.M38	21B6 38C1
IDE_PDDREQ	IDE_PDDREQ - @m38_lib.M38	21B6 38C4
IDE_PDIORDY	IDE_PDIORDY - @m38_lib.M38	5C8 21B6 38C4
IDE_PDIOR_L	IDE_PDIOR_L - @m38_lib.M38	5C8 21B6 38C1
IDE_PDIOW_L	IDE_PDIOW_L - @m38_lib.M38	21B6 38C3
IDE_RESET_L	IDE_RESET_L - @m38_lib.M38	23C3 38D3 38D6
IMVP6_BOOT1	IMVP6_BOOT1 - @m38_lib.M38	75A8 75C5
IMVP6_BOOT2	IMVP6_BOOT2 - @m38_lib.M38	75A6 75C5
IMVP6_COMP	IMVP6_COMP - @m38_lib.M38	75A4 75B6
IMVP6_COMP_RC	IMVP6_COMP_RC - @m38_lib.M38	75B7
IMVP6_DFB	IMVP6_DFB - @m38_lib.M38	75A4 75B5
IMVP6_DROOP	IMVP6_DROOP - @m38_lib.M38	75A4 75B4 76D5
IMVP6_DROOP_R	IMVP6_DROOP_R - @m38_lib.M38	76D4

IMVP6_FB	IMVP6_FB - @m38_lib.M38	75A4 75B6
IMVP6_FB2	IMVP6_FB2 - @m38_lib.M38	75A4 75B6
IMVP6_FET_RC1	IMVP6_FET_RC1 - @m38_lib.M38	75A8 75C2
IMVP6_FET_RC2	IMVP6_FET_RC2 - @m38_lib.M38	75A6 75B2
IMVP6_ISEN1	IMVP6_ISEN1 - @m38_lib.M38	75A8 75C5
IMVP6_ISEN2	IMVP6_ISEN2 - @m38_lib.M38	75A6 75C5
IMVP6_LGATE1	IMVP6_LGATE1 - @m38_lib.M38	75A8 75C5
IMVP6_LGATE2	IMVP6_LGATE2 - @m38_lib.M38	75A6 75C5
IMVP6_NTC	IMVP6_NTC - @m38_lib.M38	75C7
IMVP6_NTC_R	IMVP6_NTC_R - @m38_lib.M38	75C7
IMVP6_OCSET	IMVP6_OCSET - @m38_lib.M38	75A4 75B5
IMVP6_PHASE1	IMVP6_PHASE1 - @m38_lib.M38	75A8 75C5
IMVP6_PHASE2	IMVP6_PHASE2 - @m38_lib.M38	75A6 75C5
IMVP6_RBIAS	IMVP6_RBIAS - @m38_lib.M38	75A4 75B6
IMVP6_RTN	IMVP6_RTN - @m38_lib.M38	75A4 75B5
IMVP6_SOFT	IMVP6_SOFT - @m38_lib.M38	75A4 75C6
IMVP6_UGATE1	IMVP6_UGATE1 - @m38_lib.M38	75A8 75C5
IMVP6_UGATE2	IMVP6_UGATE2 - @m38_lib.M38	75A6 75C5
IMVP6_VDIFF	IMVP6_VDIFF - @m38_lib.M38	75A4 75B6
IMVP6_VDIFF_RC	IMVP6_VDIFF_RC - @m38_lib.M38	75B7
IMVP6_VO	IMVP6_VO - @m38_lib.M38	75A4 75B4 76D5
IMVP6_VO_R	IMVP6_VO_R - @m38_lib.M38	75B4
IMVP6_VO_R_OA	IMVP6_VO_R_OA - @m38_lib.M38	76D4
IMVP6_VR_TT	IMVP6_VR_TT - @m38_lib.M38	75C7
IMVP6_VSEN	IMVP6_VSEN - @m38_lib.M38	75A4 75B5
IMVP6_VSUM	IMVP6_VSUM - @m38_lib.M38	75A4 75C5
IMVP6_VSUM_R1	IMVP6_VSUM_R1 - @m38_lib.M38	75A8 75C2
IMVP6_VSUM_R2	IMVP6_VSUM_R2 - @m38_lib.M38	75A6 75B2
IMVP6_VW	IMVP6_VW - @m38_lib.M38	75A4 75B6
IMVP_DPRSLPVR	IMVP_DPRSLPVR - @m38_lib.M38	75C6
IMVP_PGD_IN	IMVP_PGD_IN - @m38_lib.M38	75C6 77C7
IMVP_VID<0>	IMVP_VID<0> - @m38_lib.M38	75C6
IMVP_VID<1>	IMVP_VID<1> - @m38_lib.M38	75C7
IMVP_VID<2>	IMVP_VID<2> - @m38_lib.M38	75C7
IMVP_VID<3>	IMVP_VID<3> - @m38_lib.M38	75C7
IMVP_VID<4>	IMVP_VID<4> - @m38_lib.M38	75C7
IMVP_VID<5>	IMVP_VID<5> - @m38_lib.M38	75C7
IMVP_VID<6>	IMVP_VID<6> - @m38_lib.M38	75C7
IMVP_VR_ON	IMVP_VR_ON - @m38_lib.M38	58D7 75C6
INT_PIRQA_L	INT_PIRQA_L - @m38_lib.M38	22A7 26D2
INT_PIRQB_L	INT_PIRQB_L - @m38_lib.M38	22A7 26D2
INT_PIRQC_L	INT_PIRQC_L - @m38_lib.M38	22A7 26D2
INT_PIRQD_L	INT_PIRQD_L - @m38_lib.M38	22A7 26D2 44B5
INT_SERIRQ	INT_SERIRQ - @m38_lib.M38	23C8 58C7 60C3 67C6
ISENSE_CAL_EN	ISENSE_CAL_EN - @m38_lib.M38	58B7 76A8
ISENSE_CAL_EN_L	ISENSE_CAL_EN_L - @m38_lib.M38	76B7
ISENSE_CAL_EN_LS12V	ISENSE_CAL_EN_LS12V - @m38_lib.M38	76B6
ISENSE_CAL_EN_L_R	ISENSE_CAL_EN_L_R - @m38_lib.M38	76A7
ITPRESET_L	ITPRESET_L - @m38_lib.M38	11B3
ITP_TDO	ITP_TDO - @m38_lib.M38	11B3
ITS_ALIVE	ITS_ALIVE - @m38_lib.M38	6A7
ITS_PLUGGED_IN	ITS_PLUGGED_IN - @m38_lib.M38	6A8
ITS_RUNNING	ITS_RUNNING - @m38_lib.M38	6A6
JDREF	JDREF - @m38_lib.M38	68C4
KBC_MDE	KBC_MDE - @m38_lib.M38	58C2
LCD_PWM	LCD_PWM - @m38_lib.M38	94B1 94C3
LCD_PWM_R	LCD_PWM_R - @m38_lib.M38	94B2
LCD_PWREN_L	LCD_PWREN_L - @m38_lib.M38	94C8
LCD_PWREN_L_RC	LCD_PWREN_L_RC - @m38_lib.M38	94C7
LED4300_1	LED4300_1 - @m38_lib.M38	43D2
LED4301_1	LED4301_1 - @m38_lib.M38	43D1
LED4302_1	LED4302_1 - @m38_lib.M38	43D1
LED4303_1	LED4303_1 - @m38_lib.M38	43D1
LED_PP1V05_S0_N	LED_PP1V05_S0_N - @m38_lib.M38	81A4
LED_PP1V05_S0_P	LED_PP1V05_S0_P - @m38_lib.M38	81A4
LED_PP1V5_S0_N	LED_PP1V5_S0_N - @m38_lib.M38	80A3
LED_PP1V5_S0_P	LED_PP1V5_S0_P - @m38_lib.M38	80A4
LED_PP1V8_S3_N	LED_PP1V8_S3_N - @m38_lib.M38	79A4
LED_PP1V8_S3_P	LED_PP1V8_S3_P - @m38_lib.M38	79A4
LPC_AD<0>	LPC_AD<0> - @m38_lib.M38	21D4 58D7 60C6 67C6
LPC_AD<1>	LPC_AD<1> - @m38_lib.M38	21D4 58D7 60C6 67C6
LPC_AD<2>	LPC_AD<2> - @m38_lib.M38	21D4 58C7 60C3 67C6
LPC_AD<3>	LPC_AD<3> - @m38_lib.M38	21D4 58C7 60C3 67C6
LPC_FRAME_L	LPC_FRAME_L - @m38_lib.M38	21C5 58C7 60C6 67C6
LVDS_A_CLK_N	LVDS_A_CLK_N - @m38_lib.M38	13D5 19D2
	TP_LVDS_A_CLK_N - @m38_lib.M38	19D1
LVDS_A_CLK_P	LVDS_A_CLK_P - @m38_lib.M38	13C5 19D2
	TP_LVDS_A_CLK_P - @m38_lib.M38	19D1
LVDS_A_DATA_N<0>	LVDS_A_DATA_N<0> - @m38_lib.M38	13C5 19D2
LVDS_A_DATA_N<1>	LVDS_A_DATA_N<1> - @m38_lib.M38	13C5 19D2
LVDS_A_DATA_N<2>	LVDS_A_DATA_N<2> - @m38_lib.M38	13C5 19D2
LVDS_A_DATA_P<0>	LVDS_A_DATA_P<0> - @m38_lib.M38	13C5 19D2
LVDS_A_DATA_P<1>	LVDS_A_DATA_P<1> - @m38_lib.M38	13C5 19D2
LVDS_A_DATA_P<2>	LVDS_A_DATA_P<2> - @m38_lib.M38	13C5 19D2
LVDS_BKLTCTL	LVDS_BKLTCTL - @m38_lib.M38	13D5 19C2
	TP_LVDS_BKLTCTL - @m38_lib.M38	19C1
LVDS_BKLTEN	LVDS_BKLTEN - @m38_lib.M38	13D5 19C2
	TP_LVDS_BKLTEN - @m38_lib.M38	19C1
LVDS_B_CLK_N	LVDS_B_CLK_N - @m38_lib.M38	13C5 19D2
	TP_LVDS_B_CLK_N - @m38_lib.M38	19D1
LVDS_B_CLK_P	LVDS_B_CLK_P - @m38_lib.M38	13C5 19D2
	TP_LVDS_B_CLK_P - @m38_lib.M38	19D1
LVDS_B_DATA_N<0>	LVDS_B_DATA_N<0> - @m38_lib.M38	13C5 19D2
LVDS_B_DATA_N<1>	LVDS_B_DATA_N<1> - @m38_lib.M38	13C5 19D2
LVDS_B_DATA_N<2>	LVDS_B_DATA_N<2> - @m38_lib.M38	13C5 19D2
LVDS_B_DATA_P<0>	LVDS_B_DATA_P<0> - @m38_lib.M38	13C5 19D2
LVDS_B_DATA_P<1>	LVDS_B_DATA_P<1> - @m38_lib.M38	13C5 19D2
LVDS_B_DATA_P<2>	LVDS_B_DATA_P<2> - @m38_lib.M38	13C5 19D2
LVDS_CLKCTLA	LVDS_CLKCTLA - @m38_lib.M38	13D5 19C2
	TP_LVDS_CLKCTLA - @m38_lib.M38	19C1
LVDS_CLKCTLB	LVDS_CLKCTLB - @m38_lib.M38	13D5 19C2
	TP_LVDS_CLKCTLB - @m38_lib.M38	19C1
LVDS_DDC_CLK	LVDS_DDC_CLK - @m38_lib.M38	13D5 19C2
	TP_LVDS_DDC_CLK - @m38_lib.M38	19C1
LVDS_DDC_DATA	LVDS_DDC_DATA - @m38_lib.M38	13D5 19C2
	TP_LVDS_DDC_DATA - @m38_lib.M38	19C1
LVDS_IBG	LVDS_IBG - @m38_lib.M38	13D5 19C2
	TP_LVDS_IBG - @m38_lib.M38	19C1
LVDS_L_CLK_N	LVDS_L_CLK_N - @m38_lib.M38	93A3 93D2 94A6
LVDS_L_CLK_P	LVDS_L_CLK_P - @m38_lib.M38	93A3 93D2 94A7
LVDS_L_DATA_N<0>	LVDS_L_DATA_N<0> - @m38_lib.M38	93A3 93C2 94A6
LVDS_L_DATA_N<1>	LVDS_L_DATA_N<1> - @m38_lib.M38	93A3 93C2 94A7
LVDS_L_DATA_N<2>	LVDS_L_DATA_N<2> - @m38_lib.M38	93A3 93C2 94A6
LVDS_L_DATA_N<3>	LVDS_L_DATA_N<3> - @m38_lib.M38	93A3 94A6
LVDS_L_DATA_P<0>	LVDS_L_DATA_P<0> - @m38_lib.M38	93A3 93D2 94A7
LVDS_L_DATA_P<1>	LVDS_L_DATA_P<1> - @m38_lib.M38	93A3 93C2 94A6
LVDS_L_DATA_P<2>	LVDS_L_DATA_P<2> - @m38_lib.M38	93A3 93C2 94A7
LVDS_L_DATA_P<3>	LVDS_L_DATA_P<3> - @m38_lib.M38	93A3 94A7
LVDS_U_CLK_N	LVDS_U_CLK_N - @m38_lib.M38	93B3 94B6
LVDS_U_CLK_P	LVDS_U_CLK_P - @m38_lib.M38	93B3 94A7
LVDS_U_DATA_N<0>	LVDS_U_DATA_N<0> - @m38_lib.M38	93B3 94B7
LVDS_U_DATA_N<1>	LVDS_U_DATA_N<1> - @m38_lib.M38	93B3 94B7
LVDS_U_DATA_N<2>	LVDS_U_DATA_N<2> - @m38_lib.M38	93B3 94B7
LVDS_U_DATA_N<3>	LVDS_U_DATA_N<3> - @m38_lib.M38	93B3 94A6
LVDS_U_DATA_P<0>	LVDS_U_DATA_P<0> - @m38_lib.M38	93B3 94B6
LVDS_U_DATA_P<1>	LVDS_U_DATA_P<1> - @m38_lib.M38	93B3 94B6
LVDS_U_DATA_P<2>	LVDS_U_DATA_P<2> - @m38_lib.M38	93B3 94B6
LVDS_U_DATA_P<3>	LVDS_U_DATA_P<3> - @m38_lib.M38	93B3 94A7
LVDS_VDDEN	LVDS_VDDEN - @m38_lib.M38	13D5 19C2
	TP_LVDS_VDDEN - @m38_lib.M38	19C1
LVDS_VREFH	LVDS_VREFH - @m38_lib.M38	13D5 19C2
	TP_LVDS_VREFH - @m38_lib.M38	19C1
LVDS_VREFL	LVDS_VREFL - @m38_lib.M38	13D5 19C2
	TP_LVDS_VREFL - @m38_lib.M38	19C1
MEMVTT_VREF	MEMVTT_VREF - @m38_lib.M38	31B4
MEM_A_A<0>	MEM_A_A<0> - @m38_lib.M38	15C5 28B3
MEM_A_A<13..0>	MEM_A_A<13..0> - @m38_lib.M38	30C6
MEM_A_A<1>	MEM_A_A<1> - @m38_lib.M38	15C5 28B6
MEM_A_A<2>	MEM_A_A<2> - @m38_lib.M38	15C5 28B3
MEM_A_A<3>	MEM_A_A<3> - @m38_lib.M38	15B5 28B6
MEM_A_A<4>	MEM_A_A<4> - @m38_lib.M38	15B5 28B3
MEM_A_A<5>	MEM_A_A<5> - @m38_lib.M38	15B5 28B6
MEM_A_A<6>	MEM_A_A<6> - @m38_lib.M38	15B5 28C3
MEM_A_A<7>	MEM_A_A<7> - @m38_lib.M38	15B5 28C3
MEM_A_A<8>	MEM_A_A<8> - @m38_lib.M38	15B5 28C6
MEM_A_A<9>	MEM_A_A<9> - @m38_lib.M38	15B5 28C6
MEM_A_A<10>	MEM_A_A<10> - @m38_lib.M38	15B5 28B6
MEM_A_A<11>	MEM_A_A<11> - @m38_lib.M38	15B5 28C3
MEM_A_A<12>	MEM_A_A<12> - @m38_lib.M38	15B5 28C6
MEM_A_A<13>	MEM_A_A<13> - @m38_lib.M38	15B5 28B3
MEM_A_BS<0>	MEM_A_BS<0> - @m38_lib.M38	15D5 28B6
MEM_A_BS<2..0>	MEM_A_BS<2..0> - @m38_lib.M38	30C6
MEM_A_BS<1>	MEM_A_BS<1> - @m38_lib.M38	15D5 28B3
MEM_A_BS<2>	MEM_A_BS<2> - @m38_lib.M38	15D5 28C6
MEM_A_CAS_L	MEM_A_CAS_L - @m38_lib.M38	15D5 28B6 30B6
MEM_A_DM<0>	MEM_A_DM<0> - @m38_lib.M38	15D5 28D3
MEM_A_DM<1>	MEM_A_DM<1> - @m38_lib.M38	15D5 28D3
MEM_A_DM<2>	MEM_A_DM<2> - @m38_lib.M38	15D5 28C3
MEM_A_DM<3>	MEM_A_DM<3> - @m38_lib.M38	15C5 28C6
MEM_A_DM<4>	MEM_A_DM<4> - @m38_lib.M38	15C5 28B3
MEM_A_DM<5>	MEM_A_DM<5> - @m38_lib.M38	15C5 28A6
MEM_A_DM<6>	MEM_A_DM<6> - @m38_lib.M38	15C5 28A3
MEM_A_DM<7>	MEM_A_DM<7> - @m38_lib.M38	15C5 28A6
MEM_A_DQ<0>	MEM_A_DQ<0> - @m38_lib.M38	15D7 28D6
MEM_A_DQ<1>	MEM_A_DQ<1> - @m38_lib.M38	15D7 28D6
MEM_A_DQ<2>	MEM_A_DQ<2> - @m38_lib.M38	15D7 28D6
MEM_A_DQ<3>	MEM_A_DQ<3> - @m38_lib.M38	15D7 28D6
MEM_A_DQ<4>	MEM_A_DQ<4> - @m38_lib.M38	15D7 28D3
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MEM_B_DQS_P<5>	MEM_B_DQS_P<5> - @m38_lib.M38	5A7 15C2 29A3
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MEM_B_RAS_L	MEM_B_RAS_L - @m38_lib.M38	15B2 29B3 30A6
MEM_B_SPD_SA1	MEM_B_SPD_SA1 - @m38_lib.M38	29A4
MEM_B_WE_L	MEM_B_WE_L - @m38_lib.M38	15B2 29B6 30A6
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MEM_VREF_NB_0	MEM_VREF_NB_0 - @m38_lib.M38	5B7 14C4 19B6
MEM_VREF_NB_1	MEM_VREF_NB_1 - @m38_lib.M38	5B7 14C4 19B7
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NB_CFG<5>	NB_CFG<5> - @m38_lib.M38	14C6 20C7
NB_CFG<6>	NB_CFG<6> - @m38_lib.M38	14C6
NB_CFG<7>	NB_CFG<7> - @m38_lib.M38	14C6 20C7
NB_CFG<8>	NB_CFG<8> - @m38_lib.M38	14C6
NB_CFG<9>	NB_CFG<9> - @m38_lib.M38	14C6 20B7
NB_CFG<10>	NB_CFG<10> - @m38_lib.M38	14C6
NB_CFG<11>	NB_CFG<11> - @m38_lib.M38	14C6
NB_CFG<12>	NB_CFG<12> - @m38_lib.M38	14C6
NB_CFG<13>	NB_CFG<13> - @m38_lib.M38	14C6
NB_CFG<14>	NB_CFG<14> - @m38_lib.M38	14C6
NB_CFG<15>	NB_CFG<15> - @m38_lib.M38	14C6
NB_CFG<16>	NB_CFG<16> - @m38_lib.M38	14C6 20C5
NB_CFG<17>	NB_CFG<17> - @m38_lib.M38	14C6
NB_CFG<18>	NB_CFG<18> - @m38_lib.M38	14C6 20B5
NB_CFG<19>	NB_CFG<19> - @m38_lib.M38	14C6 20B5
NB_CFG<20>	NB_CFG<20> - @m38_lib.M38	14B6 20A5
NB_CLK100M_GCLKIN_N	NB_CLK100M_GCLKIN_N - @m38_lib.M38	5C7 14C4 34B4 34C2
NB_CLK100M_GCLKIN_P	NB_CLK100M_GCLKIN_P - @m38_lib.M38	5C7 14C4 34B4 34C2
NB_FSB_VREF	NB_FSB_VREF - @m38_lib.M38	5D4 12C4
NB_FSB_XRCOMP	NB_FSB_XRCOMP - @m38_lib.M38	12A6
NB_FSB_XSCOMP	NB_FSB_XSCOMP - @m38_lib.M38	12A6
NB_FSB_XSWING	NB_FSB_XSWING - @m38_lib.M38	12A6
NB_FSB_YRCOMP	NB_FSB_YRCOMP - @m38_lib.M38	12A6
NB_FSB_YSCOMP	NB_FSB_YSCOMP - @m38_lib.M38	12A6
NB_FSB_YSWING	NB_FSB_YSWING - @m38_lib.M38	12A6
NB_RST_IN_L	NB_RST_IN_L - @m38_lib.M38	6B7 14B7
NB_RST_IN_L_R	NB_RST_IN_L_R - @m38_lib.M38	5C7 14B6
NB_SB_SYNC_L	NB_SB_SYNC_L - @m38_lib.M38	14B6 22A6
NB_TV_DCONSEL0	NB_TV_DCONSEL0 - @m38_lib.M38	14D6
NB_TV_DCONSEL1	NB_TV_DCONSEL1 - @m38_lib.M38	14C6
NB_VCCSM_LF1	NB_VCCSM_LF1 - @m38_lib.M38	16B4
NB_VCCSM_LF2	NB_VCCSM_LF2 - @m38_lib.M38	16B4
NB_VCCSM_LF4	NB_VCCSM_LF4 - @m38_lib.M38	16B8
NB_VCCSM_LF5	NB_VCCSM_LF5 - @m38_lib.M38	16B8
NB_VTTLF_CAP1	NB_VTTLF_CAP1 - @m38_lib.M38	17A4
NB_VTTLF_CAP2	NB_VTTLF_CAP2 - @m38_lib.M38	17A4
NB_VTTLF_CAP3	NB_VTTLF_CAP3 - @m38_lib.M38	17B4
NC_AUD_VREF_PORT_A	NC_AUD_VREF_PORT_A - @m38_lib.M38	68C1
NC_AUD_VREF_PORT_C	NC_AUD_VREF_PORT_C - @m38_lib.M38	68C1
NC_AUD_VREF_PORT_D	NC_AUD_VREF_PORT_D - @m38_lib.M38	68C1
NC_FW_NU1	NC_FW_NU1 - @m38_lib.M38	44B3
NC_FW_NU2	NC_FW_NU2 - @m38_lib.M38	44B3
NC_JE350_13	NC_JE350_13 - @m38_lib.M38	47B1
NC_SMC_P20	NC_SMC_P20 - @m38_lib.M38	59D5
	SMC_P20 - @m38_lib.M38	58D7 59D6
NC_SMC_P21	NC_SMC_P21 - @m38_lib.M38	59D5
	SMC_P21 - @m38_lib.M38	58D7 59D6
NC_SMC_P22	NC_SMC_P22 - @m38_lib.M38	59D5
	SMC_P22 - @m38_lib.M38	58D7 59D6
NC_SMC_P23	NC_SMC_P23 - @m38_lib.M38	59D5
	SMC_P23 - @m38_lib.M38	58D7 59D6
NC_SMC_P26	NC_SMC_P26 - @m38_lib.M38	59D5
	SMC_P26 - @m38_lib.M38	58D7 59D6
NC_SMC_P27	NC_SMC_P27 - @m38_lib.M38	59D5
	SMC_P27 - @m38_lib.M38	58D7 59D6
ODD_PWR_EN_L	ODD_PWR_EN_L - @m38_lib.M38	22A6 26C3
	SB_GPIO5 - @m38_lib.M38	26C2
P0V48_SMC_LSREF	P0V48_SMC_LSREF - @m38_lib.M38	59A6 59A8 59B7
PANEL_ID	PANEL_ID - @m38_lib.M38	94C2 94C3
PATA_PWR_EN_L	PATA_PWR_EN_L - @m38_lib.M38	23B3 23C3
PCIE_A_D2R_C_N	PCIE_A_D2R_C_N - @m38_lib.M38	41D5
PCIE_A_D2R_C_P	PCIE_A_D2R_C_P - @m38_lib.M38	41D5
PCIE_A_D2R_N	PCIE_A_D2R_N - @m38_lib.M38	5B8 22D4 41D4
PCIE_A_D2R_P	PCIE_A_D2R_P - @m38_lib.M38	5C8 22D4 41D4
PCIE_A_R2D_C_N	PCIE_A_R2D_C_N - @m38_lib.M38	22D4 41C3
PCIE_A_R2D_C_P	PCIE_A_R2D_C_P - @m38_lib.M38	22D4 41C3
PCIE_A_R2D_N	PCIE_A_R2D_N - @m38_lib.M38	41C5
PCIE_A_R2D_P	PCIE_A_R2D_P - @m38_lib.M38	41C5
PCIE_B_D2R_N	PCIE_B_D2R_N - @m38_lib.M38	5B8 22D4 53C7
PCIE_B_D2R_P	PCIE_B_D2R_P - @m38_lib.M38	5B8 22D4 53C7
PCIE_B_R2D_C_N	PCIE_B_R2D_C_N - @m38_lib.M38	22D4 53B7
PCIE_B_R2D_C_P	PCIE_B_R2D_C_P - @m38_lib.M38	22D4 53B7
PCIE_B_R2D_N	PCIE_B_R2D_N - @m38_lib.M38	53B6
PCIE_B_R2D_P	PCIE_B_R2D_P - @m38_lib.M38	53B6
PCIE_C_D2R_N	PCIE_C_D2R_N - @m38_lib.M38	22D4 54D8
	TP_PCIE_C_D2R_N - @m38_lib.M38	54D6
PCIE_C_D2R_P	PCIE_C_D2R_P - @m38_lib.M38	22D4 54D8
	TP_PCIE_C_D2R_P - @m38_lib.M38	54D6
PCIE_C_R2D_C_N	PCIE_C_R2D_C_N - @m38_lib.M38	22D4 54D8
	TP_PCIE_C_R2D_C_N - @m38_lib.M38	54D6
PCIE_C_R2D_C_P	PCIE_C_R2D_C_P - @m38_lib.M38	22D4 54D8
	TP_PCIE_C_R2D_C_P - @m38_lib.M38	54D6
PCIE_D_D2R_N	PCIE_D_D2R_N - @m38_lib.M38	22D4 54C8
	TP_PCIE_D_D2R_N - @m38_lib.M38	54C6
PCIE_D_D2R_P	PCIE_D_D2R_P - @m38_lib.M38	22D4 54C8
	TP_PCIE_D_D2R_P - @m38_lib.M38	54C6
PCIE_D_R2D_C_N	PCIE_D_R2D_C_N - @m38_lib.M38	22D4 54D8
	TP_PCIE_D_R2D_C_N - @m38_lib.M38	54D6
PCIE_D_R2D_C_P	PCIE_D_R2D_C_P - @m38_lib.M38	22D4 54D8
	TP_PCIE_D_R2D_C_P - @m38_lib.M38	54D6
PCIE_E_D2R_N	PCIE_E_D2R_N - @m38_lib.M38	22C4 54C8
	TP_PCIE_E_D2R_N - @m38_lib.M38	54C6
PCIE_E_D2R_P	PCIE_E_D2R_P - @m38_lib.M38	22C4 54C8
	TP_PCIE_E_D2R_P - @m38_lib.M38	54C6
PCIE_E_R2D_C_N	PCIE_E_R2D_C_N - @m38_lib.M38	22C4 54C8
	TP_PCIE_E_R2D_C_N - @m38_lib.M38	54C6
PCIE_E_R2D_C_P	PCIE_E_R2D_C_P - @m38_lib.M38	22C4 54C8
	TP_PCIE_E_R2D_C_P - @m38_lib.M38	54C6
PCIE_F_D2R_N	PCIE_F_D2R_N - @m38_lib.M38	22C4 54B8
	TP_PCIE_F_D2R_N - @m38_lib.M38	54B6
PCIE_F_D2R_P	PCIE_F_D2R_P - @m38_lib.M38	22C4 54B8
	TP_PCIE_F_D2R_P - @m38_lib.M38	54B6
PCIE_F_R2D_C_N	PCIE_F_R2D_C_N - @m38_lib.M38	22C4 54C8
	TP_PCIE_F_R2D_C_N - @m38_lib.M38	54C6
PCIE_F_R2D_C_P	PCIE_F_R2D_C_P - @m38_lib.M38	22C4 54B8
	TP_PCIE_F_R2D_C_P - @m38_lib.M38	54B6
PCIE_WAKE_L	PCIE_WAKE_L - @m38_lib.M38	23C8 41C4 53C7
PCI_AD<0>	PCI_AD<0> - @m38_lib.M38	22B7 44D5

PCI_AD<1>	PCI_AD<1> - @m38_lib.M38	22B7 44D5
PCI_AD<2>	PCI_AD<2> - @m38_lib.M38	22B7 44D5
PCI_AD<3>	PCI_AD<3> - @m38_lib.M38	22B7 44D5
PCI_AD<4>	PCI_AD<4> - @m38_lib.M38	22B7 44D5
PCI_AD<5>	PCI_AD<5> - @m38_lib.M38	22B7 44C5
PCI_AD<6>	PCI_AD<6> - @m38_lib.M38	22B7 44C5
PCI_AD<7>	PCI_AD<7> - @m38_lib.M38	22B7 44C5
PCI_AD<8>	PCI_AD<8> - @m38_lib.M38	22B7 44C5
PCI_AD<9>	PCI_AD<9> - @m38_lib.M38	22B7 44C5
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PCI_AD<11>	PCI_AD<11> - @m38_lib.M38	22B7 44C5
PCI_AD<12>	PCI_AD<12> - @m38_lib.M38	22B7 44C5
PCI_AD<13>	PCI_AD<13> - @m38_lib.M38	22B7 44C5
PCI_AD<14>	PCI_AD<14> - @m38_lib.M38	22B7 44C5
PCI_AD<15>	PCI_AD<15> - @m38_lib.M38	22B7 44C5
PCI_AD<16>	PCI_AD<16> - @m38_lib.M38	22B7 44C5
PCI_AD<17>	PCI_AD<17> - @m38_lib.M38	22B7 44C5
PCI_AD<18>	PCI_AD<18> - @m38_lib.M38	22B7 44C5
PCI_AD<19>	PCI_AD<19> - @m38_lib.M38	22A7 44C6
PCI_AD<20>	PCI_AD<20> - @m38_lib.M38	22A7 44C5
PCI_AD<21>	PCI_AD<21> - @m38_lib.M38	22A7 44C5
PCI_AD<22>	PCI_AD<22> - @m38_lib.M38	22A7 44C5
PCI_AD<23>	PCI_AD<23> - @m38_lib.M38	22A7 44C5
PCI_AD<24>	PCI_AD<24> - @m38_lib.M38	22A7 44C5
PCI_AD<25>	PCI_AD<25> - @m38_lib.M38	22A7 44C5
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PCI_AD<27>	PCI_AD<27> - @m38_lib.M38	22A7 44C5
PCI_AD<28>	PCI_AD<28> - @m38_lib.M38	22A7 44C5
PCI_AD<29>	PCI_AD<29> - @m38_lib.M38	22A7 44C5
PCI_AD<30>	PCI_AD<30> - @m38_lib.M38	22A7 44C5
PCI_AD<31>	PCI_AD<31> - @m38_lib.M38	22A7 44B5
PCI_CLK_FW	PCI_CLK_FW - @m38_lib.M38	34C4 44B5
PCI_CLK_PORT80	PCI_CLK_PORT80 - @m38_lib.M38	34B4 60C3
PCI_CLK_SB	PCI_CLK_SB - @m38_lib.M38	5C8 22A6 34B4
PCI_CLK_SMC	PCI_CLK_SMC - @m38_lib.M38	34C4 58C7
PCI_CLK_TPM	PCI_CLK_TPM - @m38_lib.M38	34C4 67C6
PCI_C_BE_L<0>	PCI_C_BE_L<0> - @m38_lib.M38	22B6 44B5
PCI_C_BE_L<1>	PCI_C_BE_L<1> - @m38_lib.M38	22B6 44B5
PCI_C_BE_L<2>	PCI_C_BE_L<2> - @m38_lib.M38	22B6 44B5
PCI_C_BE_L<3>	PCI_C_BE_L<3> - @m38_lib.M38	22B6 44B5
PCI_DEVSEL_L	PCI_DEVSEL_L - @m38_lib.M38	22A6 26D2 44B5
PCI_FRAME_L	PCI_FRAME_L - @m38_lib.M38	22A7 26D2 44B5
PCI_GNT3_L	PCI_GNT3_L - @m38_lib.M38	22B4 44B5
PCI_IDSEL	PCI_IDSEL - @m38_lib.M38	44B5
PCI_IRDY_L	PCI_IRDY_L - @m38_lib.M38	22A6 26D2 44B5
PCI_LOCK_L	PCI_LOCK_L - @m38_lib.M38	22A6 26D2
PCI_PAR	PCI_PAR - @m38_lib.M38	22A6 44B5
PCI_PERR_L	PCI_PERR_L - @m38_lib.M38	22A6 26D2 44B5
PCI_PME_FW_L	PCI_PME_FW_L - @m38_lib.M38	22B5 44B5
PCI_REQ0_L	PCI_REQ0_L - @m38_lib.M38	22B6 26D2
PCI_REQ1_L	PCI_REQ1_L - @m38_lib.M38	22B6 26D2
PCI_REQ2_L	PCI_REQ2_L - @m38_lib.M38	22B6 26D2
PCI_REQ3_L	PCI_REQ3_L - @m38_lib.M38	22B4 26D2 44B5
PCI_RST_FW_L	PCI_RST_FW_L - @m38_lib.M38	44A7 44B5
PCI_RST_L	PCI_RST_L - @m38_lib.M38	22A6 44A8
PCI_SERR_L	PCI_SERR_L - @m38_lib.M38	22A6 26D2 44B5
PCI_STOP_L	PCI_STOP_L - @m38_lib.M38	22A6 26D2 44B5
PCI_TRDY_L	PCI_TRDY_L - @m38_lib.M38	22A6 26D2 44B5
PEG_COMP	PEG_COMP - @m38_lib.M38	13D3
PEG_D2R_C_N<0>	PEG_D2R_C_N<0> - @m38_lib.M38	84D3
PEG_D2R_C_N<1>	PEG_D2R_C_N<1> - @m38_lib.M38	84D3
PEG_D2R_C_N<2>	PEG_D2R_C_N<2> - @m38_lib.M38	84D3
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PEG_D2R_C_N<4>	PEG_D2R_C_N<4> - @m38_lib.M38	84C3
PEG_D2R_C_N<5>	PEG_D2R_C_N<5> - @m38_lib.M38	84C3
PEG_D2R_C_N<6>	PEG_D2R_C_N<6> - @m38_lib.M38	84C3
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PEG_D2R_C_N<10>	PEG_D2R_C_N<10> - @m38_lib.M38	84B3
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PEG_D2R_P<3>	PEG_D2R_P<3> - @m38_lib.M38	13C3 84B1
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PEG_D2R_P<14>	PEG_D2R_P<14> - @m38_lib.M38	13C3 84D1
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PEG_R2D_C_N<2>	PEG_R2D_C_N<2> - @m38_lib.M38	13C3 84B5
PEG_R2D_C_N<3>	PEG_R2D_C_N<3> - @m38_lib.M38	13B3 84B5
PEG_R2D_C_N<4>	PEG_R2D_C_N<4> - @m38_lib.M38	13B3 84B5
PEG_R2D_C_N<5>	PEG_R2D_C_N<5> - @m38_lib.M38	13B3 84B5
PEG_R2D_C_N<6>	PEG_R2D_C_N<6> - @m38_lib.M38	13B3 84C5
PEG_R2D_C_N<7>	PEG_R2D_C_N<7> - @m38_lib.M38	13B3 84C5
PEG_R2D_C_N<8>	PEG_R2D_C_N<8> - @m38_lib.M38	13B3 84C5
PEG_R2D_C_N<9>	PEG_R2D_C_N<9> - @m38_lib.M38	13B3 84C5
PEG_R2D_C_N<10>	PEG_R2D_C_N<10> - @m38_lib.M38	13B3 84C5
PEG_R2D_C_N<11>	PEG_R2D_C_N<11> - @m38_lib.M38	13B3 84C5
PEG_R2D_C_N<12>	PEG_R2D_C_N<12> - @m38_lib.M38	13B3 84D5
PEG_R2D_C_N<13>	PEG_R2D_C_N<13> - @m38_lib.M38	13B3 84D5
PEG_R2D_C_N<14>	PEG_R2D_C_N<14> - @m38_lib.M38	13B3 84D5
PEG_R2D_C_N<15>	PEG_R2D_C_N<15> - @m38_lib.M38	13B3 84D5
PEG_R2D_C_P<0>	PEG_R2D_C_P<0> - @m38_lib.M38	13B3 84B5
PEG_R2D_C_P<1>	PEG_R2D_C_P<1> - @m38_lib.M38	13B3 84B5
PEG_R2D_C_P<2>	PEG_R2D_C_P<2> - @m38_lib.M38	13B3 84B5
PEG_R2D_C_P<3>	PEG_R2D_C_P<3> - @m38_lib.M38	13B3 84B5
PEG_R2D_C_P<4>	PEG_R2D_C_P<4> - @m38_lib.M38	13B3 84B5
PEG_R2D_C_P<5>	PEG_R2D_C_P<5> - @m38_lib.M38	13B3 84B5
PEG_R2D_C_P<6>	PEG_R2D_C_P<6> - @m38_lib.M38	13B3 84C5
PEG_R2D_C_P<7>	PEG_R2D_C_P<7> - @m38_lib.M38	13B3 84C5
PEG_R2D_C_P<8>	PEG_R2D_C_P<8> - @m38_lib.M38	13B3 84C5
PEG_R2D_C_P<9>	PEG_R2D_C_P<9> - @m38_lib.M38	13B3 84C5
PEG_R2D_C_P<10>	PEG_R2D_C_P<10> - @m38_lib.M38	13B3 84C5
PEG_R2D_C_P<11>	PEG_R2D_C_P<11> - @m38_lib.M38	13B3 84D5
PEG_R2D_C_P<12>	PEG_R2D_C_P<12> - @m38_lib.M38	13A3 84D5
PEG_R2D_C_P<13>	PEG_R2D_C_P<13> - @m38_lib.M38	13A3 84D5
PEG_R2D_C_P<14>	PEG_R2D_C_P<14> - @m38_lib.M38	13A3 84D5
PEG_R2D_C_P<15>	PEG_R2D_C_P<15> - @m38_lib.M38	13A3 84D5
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PEG_R2D_N<1>	PEG_R2D_N<1> - @m38_lib.M38	84D4
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PEG_R2D_N<5>	PEG_R2D_N<5> - @m38_lib.M38	84C4
PEG_R2D_N<6>	PEG_R2D_N<6> - @m38_lib.M38	84C4
PEG_R2D_N<7>	PEG_R2D_N<7> - @m38_lib.M38	84C4
PEG_R2D_N<8>	PEG_R2D_N<8> - @m38_lib.M38	84C4
PEG_R2D_N<9>	PEG_R2D_N<9> - @m38_lib.M38	84C4
PEG_R2D_N<10>	PEG_R2D_N<10> - @m38_lib.M38	84B4
PEG_R2D_N<11>	PEG_R2D_N<11> - @m38_lib.M38	84B4
PEG_R2D_N<12>	PEG_R2D_N<12> - @m38_lib.M38	84B4
PEG_R2D_N<13>	PEG_R2D_N<13> - @m38_lib.M38	84B4
PEG_R2D_N<14>	PEG_R2D_N<14> - @m38_lib.M38	84B4
PEG_R2D_N<15>	PEG_R2D_N<15> - @m38_lib.M38	84B4
PEG_R2D_P<0>	PEG_R2D_P<0> - @m38_lib.M38	84D4
PEG_R2D_P<1>	PEG_R2D_P<1> - @m38_lib.M38	84D4
PEG_R2D_P<2>	PEG_R2D_P<2> - @m38_lib.M38	84D4
PEG_R2D_P<3>	PEG_R2D_P<3> - @m38_lib.M38	84D4
PEG_R2D_P<4>	PEG_R2D_P<4> - @m38_lib.M38	84D4
PEG_R2D_P<5>	PEG_R2D_P<5> - @m38_lib.M38	84C4
PEG_R2D_P<6>	PEG_R2D_P<6> - @m38_lib.M38	84C4
PEG_R2D_P<7>	PEG_R2D_P<7> - @m38_lib.M38	84C4
PEG_R2D_P<8>	PEG_R2D_P<8> - @m38_lib.M38	84C4
PEG_R2D_P<9>	PEG_R2D_P<9> - @m38_lib.M38	84C4
PEG_R2D_P<10>	PEG_R2D_P<10> - @m38_lib.M38	84B4
PEG_R2D_P<11>	PEG_R2D_P<11> - @m38_lib.M38	84B4
PEG_R2D_P<12>	PEG_R2D_P<12> - @m38_lib.M38	84B4
PEG_R2D_P<13>	PEG_R2D_P<13> - @m38_lib.M38	84B4
PEG_R2D_P<14>	PEG_R2D_P<14> - @m38_lib.M38	84B4
PEG_R2D_P<15>	PEG_R2D_P<15> - @m38_lib.M38	84B4
PEG_RESET_L	PEG_RESET_L - @m38_lib.M38	6B7 84A5
PLT_RST_L	PLT_RST_L - @m38_lib.M38	6C8 22A6
PM_BATLOW_L	PM_BATLOW_L - @m38_lib.M38	23C1 58B7
PM_BMBUSY_L	PM_BMBUSY_L - @m38_lib.M38	14B6 23C5
PM_CLKRUN_L	PM_CLKRUN_L - @m38_lib.M38	5B8 23C8 44B5 58C5 60C6 67C6
PM_DPRSLPVR	PM_DPRSLPVR - @m38_lib.M38	14B7 23C3 75C7
PM_EXTTS_L<0>	PM_EXTTS_L<0> - @m38_lib.M38	14B7 58B7 59C5
	DIMM_OVERTEMP_L - @m38_lib.M38	28C3 29C3 59C6
PM_LAN_ENABLE	PM_LAN_ENABLE - @m38_lib.M38	23C3 58D7
PM_PWRBTN_L	PM_PWRBTN_L - @m38_lib.M38	23C3 58D7
PM_PWROK	PM_PWROK - @m38_lib.M38	77B7
PM_RI_L	PM_RI_L - @m38_lib.M38	23D5
PM_RSMRST_L	PM_RSMRST_L - @m38_lib.M38	23C1 58D7
PM_SB_PWROK	PM_SB_PWROK - @m38_lib.M38	23C3 26D6
PM_SLP_S3	PM_SLP_S3 - @m38_lib.M38	77D7 78B8 80C8 81C8
PM_SLP_S3_L	PM_SLP_S3_L - @m38_lib.M38	6C8 23C3 58C5 77D8 79A7 88A6
	MEMVTT_EN - @m38_lib.M38	31B5 79A6
PM_SLP_S4	PM_SLP_S4 - @m38_lib.M38	77A7 77C7 79C8 83C6
PM_SLP_S4_L	PM_SLP_S4_L - @m38_lib.M38	23C3 58C5 77C8
PM_SLP_S5_L	PM_SLP_S5_L - @m38_lib.M38	23C3 58C5
PM_STPCPU_L	PM_STPCPU_L - @m38_lib.M38	23C8 33C4
PM_STPPCI_L	PM_STPPCI_L - @m38_lib.M38	23C8 33C4
PM_SUS_STAT_L	PM_SUS_STAT_L - @m38_lib.M38	23C5 58C5 60C3 67C6
PM_SYSRST_L	PM_SYSRST_L - @m38_lib.M38	5B8 23C5 26C3 58B7
PM_THRMTRIP_L	PM_THRMTRIP_L - @m38_lib.M38	7C6 14B6 21C2 59C7
PM_THRM_L	PM_THRM_L - @m38_lib.M38	10D3 23C8 58B7
POWER_BUTTON_L	POWER_BUTTON_L - @m38_lib.M38	5D1 59C8
PP0V9_S0_PGOOD	PP0V9_S0_PGOOD - @m38_lib.M38	77B8 79A2
PP1V2_S0_GPU_VDDPLL	PP1V2_S0_GPU_VDDPLL - @m38_lib.M38	91B6
PP1V05_S0_PGOOD	PP1V05_S0_PGOOD - @m38_lib.M38	77C8 81B2
PP1V5_S0_NB_3GPLL_F	PP1V5_S0_NB_3GPLL_F - @m38_lib.M38	19A5
PP1V5_S0_NB_VCC3G	PP1V5_S0_NB_VCC3G - @m38_lib.M38	17D6 19A3
PP1V5_S0_NB_VCCA_3GPLL	PP1V5_S0_NB_VCCA_3GPLL - @m38_lib.M38	17D6 19A3
PP1V5_S0_NB_VCCA_DPLLA	PP1V5_S0_NB_VCCA_DPLLA - @m38_lib.M38	17C6 19C4
	TP_NB_VCCA_DPLLA - @m38_lib.M38	19C5
PP1V5_S0_NB_VCCA_DPLLB	PP1V5_S0_NB_VCCA_DPLLB - @m38_lib.M38	17C6 19C4
	TP_NB_VCCA_DPLLB - @m38_lib.M38	19C5
PP1V5_S0_NB_VCCA_HPLL	PP1V5_S0_NB_VCCA_HPLL - @m38_lib.M38	17C6 19C6
PP1V5_S0_NB_VCCA_MPLL	PP1V5_S0_NB_VCCA_MPLL - @m38_lib.M38	17C6 19C6
PP1V5_S0_NB_VCCD_QTVDAC	PP1V5_S0_NB_VCCD_QTVDAC - @m38_lib.M38	17B6 19A1
	PP1V5_S0_NB_VCCD_TVDAC - @m38_lib.M38	17C6 19B1
PP1V5_S0_PGOOD	PP1V5_S0_PGOOD - @m38_lib.M38	77C8 80B2
PP1V5_S0_SB_R	PP1V5_S0_SB_R - @m38_lib.M38	25A7
PP1V5_S0_SB_VCC1_5_B	PP1V5_S0_SB_VCC1_5_B - @m38_lib.M38	22C1 24D5 25B7
PP1V5_S0_SB_VCCDMIPLL	PP1V5_S0_SB_VCCDMIPLL - @m38_lib.M38	24B5 25A6
PP1V8R2V0_S0_GPU_VDDRH0	PP1V8R2V0_S0_GPU_VDDRH0 - @m38_lib.M38	87A7
PP1V8R2V0_S0_GPU_VDDRH1	PP1V8R2V0_S0_GPU_VDDRH1 - @m38_lib.M38	87B3
PP1V8R3V3_S0_GPU_VDDR4_F	PP1V8R3V3_S0_GPU_VDDR4_F - @m38_lib.M38	91B6
PP1V8R3V3_S0_GPU_VDDR5_F	PP1V8R3V3_S0_GPU_VDDR5_F - @m38_lib.M38	91B6
PP1V8_FB_A0_VDDA0	PP1V8_FB_A0_VDDA0 - @m38_lib.M38	89D7
PP1V8_FB_A0_VDDA1	PP1V8_FB_A0_VDDA1 - @m38_lib.M38	89D7
PP1V8_FB_A1_VDDA0	PP1V8_FB_A1_VDDA0 - @m38_lib.M38	89D4
PP1V8_FB_A1_VDDA1	PP1V8_FB_A1_VDDA1 - @m38_lib.M38	89D4
PP1V8_FB_B0_VDDA0	PP1V8_FB_B0_VDDA0 - @m38_lib.M38	90D7
PP1V8_FB_B0_VDDA1	PP1V8_FB_B0_VDDA1 - @m38_lib.M38	90D7
PP1V8_FB_B1_VDDA0	PP1V8_FB_B1_VDDA0 - @m38_lib.M38	90D4
PP1V8_FB_B1_VDDA1	PP1V8_FB_B1_VDDA1 - @m38_lib.M38	90D4
PP1V8_S3_PGOOD	PP1V8_S3_PGOOD - @m38_lib.M38	79B2
PP2V5 S0_PGOOD	PP2V5 S0_PGOOD - @m38_lib.M38	77B8 77C5
PP2V5_ENET_CTAP	PP2V5_ENET_CTAP - @m38_lib.M38	43D7
PP2V5_S0_GPU_A2VDD	PP2V5_S0_GPU_A2VDD - @m38_lib.M38	93B7
PP2V5_S0_GPU_AVDD	PP2V5_S0_GPU_AVDD - @m38_lib.M38	93C7
PP2V5_S0_GPU_LPVDD	PP2V5_S0_GPU_LPVDD - @m38_lib.M38	93B7
PP2V5_S0_GPU_LVDDR	PP2V5_S0_GPU_LVDDR - @m38_lib.M38	93B7
PP2V5_S0_GPU_PVDD_F	PP2V5_S0_GPU_PVDD_F - @m38_lib.M38	91A6
PP2V5_S0_GPU_TPVDD	PP2V5_S0_GPU_TPVDD - @m38_lib.M38	93C7
PP2V5_S0_GPU_TXVDDR	PP2V5_S0_GPU_TXVDDR - @m38_lib.M38	93C7
PP2V5_S0_GPU_VDD1DI	PP2V5_S0_GPU_VDD1DI - @m38_lib.M38	93C8
PP2V5_S0_GPU_VDD2DI	PP2V5_S0_GPU_VDD2DI - @m38_lib.M38	93B8
PP3V3R12V_LCD_CONN	PP3V3R12V_LCD_CONN - @m38_lib.M38	94A6 94A6 94A7 94C5
PP3V3_AUDIO_SPDIF_EMI	PP3V3_AUDIO_SPDIF_EMI - @m38_lib.M38	73B7
PP3V3_AUDIO_SPDIF_JACK	PP3V3_AUDIO_SPDIF_JACK - @m38_lib.M38	73B5
PP3V3_AVCC_SMC	PP3V3_AVCC_SMC - @m38_lib.M38	58D3
PP3V3_AVREF_SMC	PP3V3_AVREF_SMC - @m38_lib.M38	58D2 59A3
PP3V3_FW_ESD	PP3V3_FW_ESD - @m38_lib.M38	46A5 46A6 46B5 46C5 46D5
PP3V3_FW_ESD_F	PP3V3_FW_ESD_F - @m38_lib.M38	46A7
PP3V3_INTERCON	PP3V3_INTERCON - @m38_lib.M38	72C7
PP3V3_LCD_SW	PP3V3_LCD_SW - @m38_lib.M38	94C6
PP3V3_S0_CK410_VDD48	PP3V3_S0_CK410_VDD48 - @m38_lib.M38	33D5
PP3V3_S0_CK410_VDDA	PP3V3_S0_CK410_VDDA - @m38_lib.M38	33C6
PP3V3_S0_CK410_VDD_CPU_SRC	PP3V3_S0_CK410_VDD_CPU_SRC - @m38_lib.M38	33D6
PP3V3_S0_CK410_VDD_PCI	PP3V3_S0_CK410_VDD_PCI - @m38_lib.M38	33D5
PP3V3_S0_CK410_VDD_REF	PP3V3_S0_CK410_VDD_REF - @m38_lib.M38	33C5
PP3V3_S0_IMVP6_3V3	PP3V3_S0_IMVP6_3V3 - @m38_lib.M38	75D6
PP3V3_S5_FW_VDDA	PP3V3_S5_FW_VDDA - @m38_lib.M38	44D5 45C6
PP3V3_S5_SB_RTC	PP3V3_S5_SB_RTC - @m38_lib.M38	5D2 21D6 24B3 25A3 26D7
PP3V3_SO_2V5REG_R	PP3V3_SO_2V5REG_R - @m38_lib.M38	77D5
PP3V3_TPM_3VSB	PP3V3_TPM_3VSB - @m38_lib.M38	59C5 67C4
PP4V5_AUDIO_ANALOG	PP4V5_AUDIO_ANALOG - @m38_lib.M38	68A2 68D2 74D8
PP5V_BNDI_LE340	PP5V_BNDI_LE340 - @m38_lib.M38	47D3
PP5V_S0_DDC	PP5V_S0_DDC - @m38_lib.M38	97D4
PP5V_S0_DDC_FUSE	PP5V_S0_DDC_FUSE - @m38_lib.M38	97D5
PP5V_S0_GPUVCORE_VCC	PP5V_S0_GPUVCORE_VCC - @m38_lib.M38	85D7 88D8
PP5V_S0_IMVP6_VDD	PP5V_S0_IMVP6_VDD - @m38_lib.M38	75D6
PP5V_S0_SB_V5REF	PP5V_S0_SB_V5REF - @m38_lib.M38	24D5 25D7
PP5V_S3_BNDI	PP5V_S3_BNDI - @m38_lib.M38	47B2 47D1
PP5V_S5_SB_V5REF_SUS	PP5V_S5_SB_V5REF_SUS - @m38_lib.M38	24D5 25C7
PP5V_USB2	PP5V_USB2 - @m38_lib.M38	47D7
PP5V_USB2_PORT0_F	PP5V_USB2_PORT0_F - @m38_lib.M38	47D5
PP5V_USB2_PORT1_F	PP5V_USB2_PORT1_F - @m38_lib.M38	47C5
PP5V_USB2_PORT2_F	PP5V_USB2_PORT2_F - @m38_lib.M38	47B5
PP12V_AUD_SPKRAMP_PLANE	PP12V_AUD_SPKRAMP_PLANE - @m38_lib.M38	72D5
PP12V_L7502	PP12V_L7502 - @m38_lib.M38	76D7
PP12V_S5_CPU_REG	PP12V_S5_CPU_REG - @m38_lib.M38	75C3 75D4 75D7 76C8 76D6
PPFW_PORT0_VP	PPFW_PORT0_VP - @m38_lib.M38	46D2
PPFW_PORT0_VP_FL	PPFW_PORT0_VP_FL - @m38_lib.M38	46C2
PPFW_PORT1_VP	PPFW_PORT1_VP - @m38_lib.M38	46B2 46D1
PPFW_PORT1_VP_FL	PPFW_PORT1_VP_FL - @m38_lib.M38	46B2
PPFW_PORTS_VP	PPFW_PORTS_VP - @m38_lib.M38	46D3
PPVCORE_S0_GPU_MPVDD	PPVCORE_S0_GPU_MPVDD - @m38_lib.M38	91A6
PPVCORE_S0_GPU_VDDCI	PPVCORE_S0_GPU_VDDCI - @m38_lib.M38	86C7
PPVIN_S5_IMVP6_VIN	PPVIN_S5_IMVP6_VIN - @m38_lib.M38	75D6
PPV_3V3_AUDIO_CODEC	PPV_3V3_AUDIO_CODEC - @m38_lib.M38	68D6
Q4201_3	Q4201_3 - @m38_lib.M38	42D6
R7504_1	R7504_1 - @m38_lib.M38	75A8 75C1
R7507_1	R7507_1 - @m38_lib.M38	75A6 75B1
R8599_2	R8599_2 - @m38_lib.M38	85C4
RSMRST_PWRGD	RSMRST_PWRGD - @m38_lib.M38	58D7 76D1
SATA_A_D2R_N	SATA_A_D2R_N - @m38_lib.M38	21B6 38A6
	TP_SATA_A_D2R_N - @m38_lib.M38	38A5
SATA_A_D2R_P	SATA_A_D2R_P - @m38_lib.M38	21B6 38A6
	TP_SATA_A_D2R_P - @m38_lib.M38	38A5
SATA_A_R2D_C_N	SATA_A_R2D_C_N - @m38_lib.M38	21B6 38A6
	TP_SATA_A_R2D_N - @m38_lib.M38	38A5
SATA_A_R2D_C_P	SATA_A_R2D_C_P - @m38_lib.M38	21B6 38A6
	TP_SATA_A_R2D_P - @m38_lib.M38	38A5
SATA_C_D2R_C_N	SATA_C_D2R_C_N - @m38_lib.M38	38B8
SATA_C_D2R_C_P	SATA_C_D2R_C_P - @m38_lib.M38	38B8
SATA_C_D2R_N	SATA_C_D2R_N - @m38_lib.M38	21B6 38B6
SATA_C_D2R_P	SATA_C_D2R_P - @m38_lib.M38	21B6 38B6
SATA_C_DET_L	SATA_C_DET_L - @m38_lib.M38	23D2 38B5
SATA_C_PWR_EN_L	SATA_C_PWR_EN_L - @m38_lib.M38	23A3 23B3
SATA_C_R2D_C_N	SATA_C_R2D_C_N - @m38_lib.M38	21B6 38B6
SATA_C_R2D_C_P	SATA_C_R2D_C_P - @m38_lib.M38	21B6 38B6
SATA_C_R2D_N	SATA_C_R2D_N - @m38_lib.M38	38B8
SATA_C_R2D_P	SATA_C_R2D_P - @m38_lib.M38	38B8
SATA_RBIAS_N	SATA_RBIAS_N - @m38_lib.M38	21B6 38C7
	SATA_RBIAS_P - @m38_lib.M38	21B6 38C7
	SATA_RBIAS - @m38_lib.M38	38C7
	SATA_RBIAS_P - @m38_lib.M38	21B6 38C7
	SATA_RBIAS - @m38_lib.M38	38C7
SB_A20GATE	SB_A20GATE - @m38_lib.M38	21C4
SB_ACZ_BITCLK	SB_ACZ_BITCLK - @m38_lib.M38	21C6
SB_ACZ_RST_L	SB_ACZ_RST_L - @m38_lib.M38	21C6
SB_ACZ_SDATAOUT	SB_ACZ_SDATAOUT - @m38_lib.M38	21C6
SB_ACZ_SYNC	SB_ACZ_SYNC - @m38_lib.M38	21C6
SB_CLK14P3M_TIMER	SB_CLK14P3M_TIMER - @m38_lib.M38	5B8 23D3 34D4
SB_CLK48M_USBCTLR	SB_CLK48M_USBCTLR - @m38_lib.M38	5B8 23D3 34C4
SB_CLK100M_DMI_N	SB_CLK100M_DMI_N - @m38_lib.M38	5B8 22C2 34A4 34C2
SB_CLK100M_DMI_P	SB_CLK100M_DMI_P - @m38_lib.M38	5B8 22C2 34A4 34C2
SB_CLK100M_SATA_N	SB_CLK100M_SATA_N - @m38_lib.M38	5C8 21B6 34B4 34C2
SB_CLK100M_SATA_OE_L	SB_CLK100M_SATA_OE_L - @m38_lib.M38	23C3 33B4
SB_CLK100M_SATA_P	SB_CLK100M_SATA_P - @m38_lib.M38	5C8 21B6 34B4 34C2
SB_CRT_TVOUT_MUX	SB_CRT_TVOUT_MUX - @m38_lib.M38	22B5
SB_GPIO2	SB_GPIO2 - @m38_lib.M38	22A6 26C2
SB_GPIO3	SB_GPIO3 - @m38_lib.M38	22A6 26C2
SB_GPIO4	SB_GPIO4 - @m38_lib.M38	22A6 26C2
SB_GPIO19	SB_GPIO19 - @m38_lib.M38	23D3
SB_GPIO21	SB_GPIO21 - @m38_lib.M38	23D3
SB_GPIO26	SB_GPIO26 - @m38_lib.M38	23C7
SB_GPIO29	SB_GPIO29 - @m38_lib.M38	22C4 22D8
SB_GPIO30	SB_GPIO30 - @m38_lib.M38	22C4 22D8
SB_GPIO31	SB_GPIO31 - @m38_lib.M38	22C4 22D8
SB_GPIO37	SB_GPIO37 - @m38_lib.M38	23D3
SB_INTVRMEN	SB_INTVRMEN - @m38_lib.M38	21D6
SB_RTC_RST_L	SB_RTC_RST_L - @m38_lib.M38	21D6 26C7
SB_RTC_X1	SB_RTC_X1 - @m38_lib.M38	21D6 26D7
SB_RTC_X2	SB_RTC_X2 - @m38_lib.M38	21D6 26D7
SB_SM_INTRUDER_L	SB_SM_INTRUDER_L - @m38_lib.M38	21D6 26C7
SB_SPKR	SB_SPKR - @m38_lib.M38	23C5
SC_RX_L	SC_RX_L - @m38_lib.M38	58C5 59B6 59C4
SC_TX_L	SC_TX_L - @m38_lib.M38	58C5 59B4 59B6
SDVO_CTRLCLK	SDVO_CTRLCLK - @m38_lib.M38	14B6 19A2
	TP_SDVO_CTRLCLK - @m38_lib.M38	19A1
SDVO_CTRLDATA	SDVO_CTRLDATA - @m38_lib.M38	14B6 19A2
	TP_SDVO_CTRLDATA - @m38_lib.M38	19A1
SMB_ALERT_L	SMB_ALERT_L - @m38_lib.M38	23C5
SMB_BSA_CLK	SMB_BSA_CLK - @m38_lib.M38	58B5 59C1
SMB_BSA_DATA	SMB_BSA_DATA - @m38_lib.M38	58B5 59C1
SMB_BSB_CLK	SMB_BSB_CLK - @m38_lib.M38	58C5 59D1
SMB_BSB_DATA	SMB_BSB_DATA - @m38_lib.M38	58C7 59D1
SMB_LINK_ALERT_L	SMB_LINK_ALERT_L - @m38_lib.M38	23D5
SMC_ADAPTER_EN	SMC_ADAPTER_EN - @m38_lib.M38	58D5 59D5
	TP_SMC_ADAPTER_EN - @m38_lib.M38	59D3
SMC_ANALOG_ID	SMC_ANALOG_ID - @m38_lib.M38	58A7 59C6
	NC_SMC_ANALOG_ID - @m38_lib.M38	59C5
SMC_BATT_CHG_EN	SMC_BATT_CHG_EN - @m38_lib.M38	58D7 59D6
	NC_SMC_BATT_CHG_EN - @m38_lib.M38	59D5
SMC_BATT_ISENSE	SMC_BATT_ISENSE - @m38_lib.M38	58D5 59B6
	UNUSED_SMC_SENSE - @m38_lib.M38	59B5 59B5 59B6
	SMC_FWIRE_ISENSE - @m38_lib.M38	58D5 59B6
	UNUSED_SMC_SENSE - @m38_lib.M38	59B5 59B5 59B6
	SMC_FWIRE_ISENSE - @m38_lib.M38	58D5 59B6
SMC_BATT_ISET	SMC_BATT_ISET - @m38_lib.M38	58B5 59D6
	NC_SMC_BATT_ISET - @m38_lib.M38	59D5
SMC_BATT_TRICKLE_EN_L	SMC_BATT_TRICKLE_EN_L - @m38_lib.M38	58D7 59D6
	NC_SMC_BATT_TRICKLE_EN_L - @m38_lib.M38	59D5
SMC_BATT_VSET	SMC_BATT_VSET - @m38_lib.M38	58B5 59D6
	NC_SMC_BATT_VSET - @m38_lib.M38	59D5
SMC_BC_ACOK	SMC_BC_ACOK - @m38_lib.M38	58C5 59B4
SMC_BS_ALRT_L	SMC_BS_ALRT_L - @m38_lib.M38	58C5 59B4
SMC_CASE_OPEN	SMC_CASE_OPEN - @m38_lib.M38	58C5 59C1
SMC_CPU_ISENSE	SMC_CPU_ISENSE - @m38_lib.M38	58D5 76D2
SMC_CPU_RESET_3_3_L	SMC_CPU_RESET_3_3_L - @m38_lib.M38	58B5 59A7
SMC_CPU_VSENSE	SMC_CPU_VSENSE - @m38_lib.M38	58D5 76B2
SMC_DCIN_ISENSE	SMC_DCIN_ISENSE - @m38_lib.M38	58D5 76D5
SMC_EXCARD_CP	SMC_EXCARD_CP - @m38_lib.M38	58B7 59C4
SMC_EXCARD_PWR_EN	SMC_EXCARD_PWR_EN - @m38_lib.M38	58B7 59C5
	TP_SMC_EXCARD_PWR_EN - @m38_lib.M38	59C3
SMC_EXCARD_PWR_OC_L	SMC_EXCARD_PWR_OC_L - @m38_lib.M38	58B7 59C4
SMC_EXTAL	SMC_EXTAL - @m38_lib.M38	58C3 59B8
SMC_EXTSMI_L	SMC_EXTSMI_L - @m38_lib.M38	23B8 58B7
SMC_FAN_0_CTL	SMC_FAN_0_CTL - @m38_lib.M38	58B7 65D8
	FAN_RPM0 - @m38_lib.M38	65D7
SMC_FAN_0_TACH	SMC_FAN_0_TACH - @m38_lib.M38	58B7 65C8
SMC_FAN_1_CTL	SMC_FAN_1_CTL - @m38_lib.M38	58B7 65B8 66D8
SMC_FAN_1_TACH	SMC_FAN_1_TACH - @m38_lib.M38	58B7 65A8 66C8
SMC_FAN_2_CTL	SMC_FAN_2_CTL - @m38_lib.M38	58B7 65B8 66D8
SMC_FAN_2_TACH	SMC_FAN_2_TACH - @m38_lib.M38	58B7 65A8 66C8
SMC_FAN_3_CTL	SMC_FAN_3_CTL - @m38_lib.M38	58B7 59C5
	TP_SMC_FAN_3_CTL - @m38_lib.M38	59C3
SMC_FAN_3_TACH	SMC_FAN_3_TACH - @m38_lib.M38	58B7 59C5
	TP_SMC_FAN_3_TACH - @m38_lib.M38	59C3
SMC_FWE	SMC_FWE - @m38_lib.M38	58B5 59B4
SMC_GPU_VSENSE	SMC_GPU_VSENSE - @m38_lib.M38	58D5 59B3
SMC_LID	SMC_LID - @m38_lib.M38	58B5 59C1
SMC_LRESET_L	SMC_LRESET_L - @m38_lib.M38	6B7 58C7
SMC_MANUAL_RST_L	SMC_MANUAL_RST_L - @m38_lib.M38	5D1 59D8
SMC_MD1	SMC_MD1 - @m38_lib.M38	58C1 60B5
SMC_MEM_ISENSE	SMC_MEM_ISENSE - @m38_lib.M38	58A7 59B6
	NC_SMC_MEM_ISENSE - @m38_lib.M38	59B5
SMC_NB_ISENSE	SMC_NB_ISENSE - @m38_lib.M38	58A7 59B6
	NC_SMC_NB_ISENSE - @m38_lib.M38	59B5
SMC_NMI	SMC_NMI - @m38_lib.M38	58C1 60B4
SMC_ODD_DETECT	SMC_ODD_DETECT - @m38_lib.M38	58B7 59C4
SMC_ONOFF_L	SMC_ONOFF_L - @m38_lib.M38	58C5 59B7 59C4
SMC_PB7	SMC_PB7 - @m38_lib.M38	59C5 59C5
	TP_SMC_PB7 - @m38_lib.M38	59C3 59C3
SMC_PBUS_VSENSE	SMC_PBUS_VSENSE - @m38_lib.M38	58D5 76C6
SMC_PBUS_VSENSE_R	SMC_PBUS_VSENSE_R - @m38_lib.M38	76C8
SMC_PF0	SMC_PF0 - @m38_lib.M38	58B5 59D5
	TP_SMC_PF0 - @m38_lib.M38	59D3
SMC_PF1	SMC_PF1 - @m38_lib.M38	58B5 59D5
	TP_SMC_PF1 - @m38_lib.M38	59D3
SMC_PM_G2_EN	SMC_PM_G2_EN - @m38_lib.M38	58D5 59D5
	TP_PM_G2_EN - @m38_lib.M38	59D3
SMC_PROCHOT	SMC_PROCHOT - @m38_lib.M38	58B5 59C7
SMC_PROCHOT_3_3_L	SMC_PROCHOT_3_3_L - @m38_lib.M38	58D5 59A7
SMC_RCIN_L	SMC_RCIN_L - @m38_lib.M38	21C3 58C7
SMC_REF_GATE1	SMC_REF_GATE1 - @m38_lib.M38	59A5
SMC_REF_GATE2	SMC_REF_GATE2 - @m38_lib.M38	59A4
SMC_REF_IN	SMC_REF_IN - @m38_lib.M38	59A4
SMC_RSTGATE_L	SMC_RSTGATE_L - @m38_lib.M38	42C3 44A8 58D7
SMC_RST_L	SMC_RST_L - @m38_lib.M38	58C3 59D7 60B4
SMC_RUNTIME_SCI_L	SMC_RUNTIME_SCI_L - @m38_lib.M38	23C8 58B7
SMC_RX_L	SMC_RX_L - @m38_lib.M38	5D1 58C7 59B4 59B5 60B4
SMC_SB_NMI	SMC_SB_NMI - @m38_lib.M38	23C3 58D7
SMC_SMB_0_CLK	SMC_SMB_0_CLK - @m38_lib.M38	58C7 59D1
	TP_SMC_SMB_0_CLK - @m38_lib.M38	59D1
SMC_SMB_0_DATA	SMC_SMB_0_DATA - @m38_lib.M38	58C5 59D1
	TP_SMC_SMB_0_DATA - @m38_lib.M38	59D1
SMC_SYS_ISET	SMC_SYS_ISET - @m38_lib.M38	58B5 59D6
	NC_SMC_SYS_ISET - @m38_lib.M38	59D5
SMC_SYS_KBDLED	SMC_SYS_KBDLED - @m38_lib.M38	58C7 59D5
	TP_SMC_SYS_KBDLED - @m38_lib.M38	59D3
SMC_SYS_LED	SMC_SYS_LED - @m38_lib.M38	58C7 59D7
SMC_SYS_VSET	SMC_SYS_VSET - @m38_lib.M38	58B5 59D6
	NC_SMC_SYS_VSET - @m38_lib.M38	59D5
SMC_TCK	SMC_TCK - @m38_lib.M38	5D1 58C5 59B4 60B4
SMC_TDI	SMC_TDI - @m38_lib.M38	5D1 58B5 59B4 60B4
SMC_TDO	SMC_TDO - @m38_lib.M38	5D1 58B5 59B4 60B5
SMC_THRMTRIP	SMC_THRMTRIP - @m38_lib.M38	58B5 59C7
SMC_TMS	SMC_TMS - @m38_lib.M38	5D1 58B5 59B4 60B5
SMC_TPM_GPIO	SMC_TPM_GPIO - @m38_lib.M38	58D5 59B6
SMC_TPM_PP	SMC_TPM_PP - @m38_lib.M38	58C7 59A6
SMC_TPM_RESET_L	SMC_TPM_RESET_L - @m38_lib.M38	58B7 59C6 67B7
SMC_TRST_L	SMC_TRST_L - @m38_lib.M38	5D1 58C1 60B5
SMC_TX_L	SMC_TX_L - @m38_lib.M38	5D1 58C7 59B4 59B5 60B5
SMC_VCL	SMC_VCL - @m38_lib.M38	58D3
SMC_WAKE_SCI_L	SMC_WAKE_SCI_L - @m38_lib.M38	23C1 58D5
SMC_XDP_TCK	SMC_XDP_TCK - @m38_lib.M38	58C7 59A2
SMC_XDP_TCK_3_3	SMC_XDP_TCK_3_3 - @m38_lib.M38	58B5 59A5
SMC_XDP_TCK_R	SMC_XDP_TCK_R - @m38_lib.M38	59A1
SMC_XDP_TDI_L	SMC_XDP_TDI_L - @m38_lib.M38	58C7 59B3
SMC_XDP_TDO_3_3_L	SMC_XDP_TDO_3_3_L - @m38_lib.M38	58B7 59A5
SMC_XDP_TMS_L	SMC_XDP_TMS_L - @m38_lib.M38	58C7 59B2
SMC_XDP_TRST_L	SMC_XDP_TRST_L - @m38_lib.M38	58C7 59A3

SMC_XDP_TRST_L_R	SMC_XDP_TRST_L_R - @m38_lib.M38	59A3
SMC_XTAL	SMC_XTAL - @m38_lib.M38	58C3 59B8
SMLINK<0>	SMLINK<0> - @m38_lib.M38	23D5
SMLINK<1>	SMLINK<1> - @m38_lib.M38	23D5
SMS_INT_L	SMS_INT_L - @m38_lib.M38	23C3 26C2 58B5
SMS_ONOFF_L	SMS_ONOFF_L - @m38_lib.M38	58A5 59B4
SMS_X_AXIS	SMS_X_AXIS - @m38_lib.M38	58B7 59B6
	NC_SMS_X_AXIS - @m38_lib.M38	59B5
SMS_Y_AXIS	SMS_Y_AXIS - @m38_lib.M38	58B7 59B6
	NC_SMS_Y_AXIS - @m38_lib.M38	59B5
SMS_Z_AXIS	SMS_Z_AXIS - @m38_lib.M38	58A7 59B6
	NC_SMS_Z_AXIS - @m38_lib.M38	59B5
SPARE_SRC3_N	SPARE_SRC3_N - @m38_lib.M38	34D2
SPARE_SRC3_P	SPARE_SRC3_P - @m38_lib.M38	34D2
SPARE_SRC7_N	SPARE_SRC7_N - @m38_lib.M38	34D2
SPARE_SRC7_P	SPARE_SRC7_P - @m38_lib.M38	34D2
SPI_ARB	SPI_ARB - @m38_lib.M38	22C6 58D5
SPI_CE_L	SPI_CE_L - @m38_lib.M38	22C6 58B5 63C7
SPI_HOLD_L	SPI_HOLD_L - @m38_lib.M38	63C4
SPI_SCLK	SPI_SCLK - @m38_lib.M38	22C6 58D5 63C7
SPI_SCLK_R	SPI_SCLK_R - @m38_lib.M38	63C4
SPI_SI	SPI_SI - @m38_lib.M38	22C6 58D5 63C1
SPI_SI_R	SPI_SI_R - @m38_lib.M38	63C3
SPI_SO	SPI_SO - @m38_lib.M38	22C6 58D5 63C1
SPI_SO_R	SPI_SO_R - @m38_lib.M38	63C3
SPI_WP_L	SPI_WP_L - @m38_lib.M38	63C4
SPKRAMP_MUTE	SPKRAMP_MUTE - @m38_lib.M38	72B5
SPKRAMP_SS	SPKRAMP_SS - @m38_lib.M38	72B4
SUS_CLK_SB	SUS_CLK_SB - @m38_lib.M38	23C3 59B5
	SMC_SUS_CLK - @m38_lib.M38	58C5 59B6
SV_SET_UP	SV_SET_UP - @m38_lib.M38	23B6 23C3 60B3
SW_RST_BTN_L	SW_RST_BTN_L - @m38_lib.M38	5D1 26C6
SW_RST_DEBNC	SW_RST_DEBNC - @m38_lib.M38	26C4
SYS_LED_DRV_C	SYS_LED_DRV_C - @m38_lib.M38	59D6
SYS_LED_DRV_K	SYS_LED_DRV_K - @m38_lib.M38	59D6
SYS_ONEWIRE	SYS_ONEWIRE - @m38_lib.M38	58B7 59B4
SYS_POWERFAIL_L	SYS_POWERFAIL_L - @m38_lib.M38	6D8 76D2
SYS_PWRUP_L	SYS_PWRUP_L - @m38_lib.M38	6C7
THERM_DX_N	THERM_DX_N - @m38_lib.M38	10B5 10C5
THERM_DX_P	THERM_DX_P - @m38_lib.M38	10B5 10C5
THRM_ALERT_L	THRM_ALERT_L - @m38_lib.M38	10D3
THRM_THM	THRM_THM - @m38_lib.M38	10C4
TMDS_CK_TERM	TMDS_CK_TERM - @m38_lib.M38	97C8
TMDS_CLK_N	TMDS_CLK_N - @m38_lib.M38	93C3 97C8
TMDS_CLK_P	TMDS_CLK_P - @m38_lib.M38	93C3 97C8
TMDS_CONN_CLKN	TMDS_CONN_CLKN - @m38_lib.M38	97C4 97C7
TMDS_CONN_CLKP	TMDS_CONN_CLKP - @m38_lib.M38	97C4 97C7
TMDS_CONN_DN<0>	TMDS_CONN_DN<0> - @m38_lib.M38	97C4 97D7
TMDS_CONN_DN<1>	TMDS_CONN_DN<1> - @m38_lib.M38	97C4 97D7
TMDS_CONN_DN<2>	TMDS_CONN_DN<2> - @m38_lib.M38	97C7 97D4
TMDS_CONN_DP<0>	TMDS_CONN_DP<0> - @m38_lib.M38	97C4 97D7
TMDS_CONN_DP<1>	TMDS_CONN_DP<1> - @m38_lib.M38	97C4 97D7
TMDS_CONN_DP<2>	TMDS_CONN_DP<2> - @m38_lib.M38	97C7 97D4
TMDS_DATA_N<0>	TMDS_DATA_N<0> - @m38_lib.M38	93C3 97D8
TMDS_DATA_N<1>	TMDS_DATA_N<1> - @m38_lib.M38	93C3 97D8
TMDS_DATA_N<2>	TMDS_DATA_N<2> - @m38_lib.M38	93C3 97C8
TMDS_DATA_N<3>	TMDS_DATA_N<3> - @m38_lib.M38	93C3 95D6
TMDS_DATA_N<4>	TMDS_DATA_N<4> - @m38_lib.M38	93C3 95D6
TMDS_DATA_N<5>	TMDS_DATA_N<5> - @m38_lib.M38	93C3 95D6
TMDS_DATA_P<0>	TMDS_DATA_P<0> - @m38_lib.M38	93C3 97D8
TMDS_DATA_P<1>	TMDS_DATA_P<1> - @m38_lib.M38	93C3 97C8
TMDS_DATA_P<2>	TMDS_DATA_P<2> - @m38_lib.M38	93C3 97C8
TMDS_DATA_P<3>	TMDS_DATA_P<3> - @m38_lib.M38	93C3 95D6
TMDS_DATA_P<4>	TMDS_DATA_P<4> - @m38_lib.M38	93C3 95D6
TMDS_DATA_P<5>	TMDS_DATA_P<5> - @m38_lib.M38	93C3 95D6
TPM_BADD	TPM_BADD - @m38_lib.M38	67C4
TPM_GPIO1	TPM_GPIO1 - @m38_lib.M38	59B5 67C6
TPM_GPIO2	TPM_GPIO2 - @m38_lib.M38	59B5 67C6
TPM_LRESET_L	TPM_LRESET_L - @m38_lib.M38	6B7 67B7
TPM_PP	TPM_PP - @m38_lib.M38	59A5 67C6
TPM_RST_L	TPM_RST_L - @m38_lib.M38	67B6
TPM_XTALI	TPM_XTALI - @m38_lib.M38	59B7 67C6
TPM_XTALO	TPM_XTALO - @m38_lib.M38	59B7 67C6
TP_ATI_ROMCS_L	TP_ATI_ROMCS_L - @m38_lib.M38	91A3
TP_AZ_DOCK_EN_L	TP_AZ_DOCK_EN_L - @m38_lib.M38	23C5
TP_AZ_DOCK_RST_L	TP_AZ_DOCK_RST_L - @m38_lib.M38	23C5
TP_CLK14P3M_SPARE	TP_CLK14P3M_SPARE - @m38_lib.M38	34C4
TP_CPU_A32_L	TP_CPU_A32_L - @m38_lib.M38	7C7
TP_CPU_A33_L	TP_CPU_A33_L - @m38_lib.M38	7B7
TP_CPU_A34_L	TP_CPU_A34_L - @m38_lib.M38	7B7
TP_CPU_A35_L	TP_CPU_A35_L - @m38_lib.M38	7B7
TP_CPU_A36_L	TP_CPU_A36_L - @m38_lib.M38	7B7
TP_CPU_A37_L	TP_CPU_A37_L - @m38_lib.M38	7B7
TP_CPU_A38_L	TP_CPU_A38_L - @m38_lib.M38	7B7
TP_CPU_A39_L	TP_CPU_A39_L - @m38_lib.M38	7B7
TP_CPU_APM0_L	TP_CPU_APM0_L - @m38_lib.M38	7B7
TP_CPU_APM1_L	TP_CPU_APM1_L - @m38_lib.M38	7B7
TP_CPU_CPUSLP_L	TP_CPU_CPUSLP_L - @m38_lib.M38	21C4
TP_CPU_EXTBREF	TP_CPU_EXTBREF - @m38_lib.M38	7B6
TP_CPU_HFPLL	TP_CPU_HFPLL - @m38_lib.M38	7B7
TP_CPU_SPARE0	TP_CPU_SPARE0 - @m38_lib.M38	7B6
TP_CPU_SPARE1	TP_CPU_SPARE1 - @m38_lib.M38	7B6
TP_CPU_SPARE2	TP_CPU_SPARE2 - @m38_lib.M38	7B6
TP_CPU_SPARE3	TP_CPU_SPARE3 - @m38_lib.M38	7B6
TP_CPU_SPARE4	TP_CPU_SPARE4 - @m38_lib.M38	7B6
TP_CPU_SPARE5	TP_CPU_SPARE5 - @m38_lib.M38	7B6
TP_CPU_SPARE6	TP_CPU_SPARE6 - @m38_lib.M38	7B6
TP_CPU_SPARE7	TP_CPU_SPARE7 - @m38_lib.M38	7B6
TP_FB_A_MA12	TP_FB_A_MA12 - @m38_lib.M38	87D5
TP_FB_A_ODT<0>	TP_FB_A_ODT<0> - @m38_lib.M38	87B5
TP_FB_A_ODT<1>	TP_FB_A_ODT<1> - @m38_lib.M38	87B5
TP_FB_B_MA12	TP_FB_B_MA12 - @m38_lib.M38	87D1
TP_FB_B_ODT<0>	TP_FB_B_ODT<0> - @m38_lib.M38	87B1
TP_FB_B_ODT<1>	TP_FB_B_ODT<1> - @m38_lib.M38	87B1
TP_FW_CNA	TP_FW_CNA - @m38_lib.M38	44B3
TP_FW_LKON	TP_FW_LKON - @m38_lib.M38	44B3
TP_FW_LPS	TP_FW_LPS - @m38_lib.M38	44B3
TP_FW_MPCIACT_L	TP_FW_MPCIACT_L - @m38_lib.M38	44B3
TP_FW_NANDTREE	TP_FW_NANDTREE - @m38_lib.M38	44B3
TP_FW_ROM_AD	TP_FW_ROM_AD - @m38_lib.M38	44B3
TP_FW_VAUX_PRES	TP_FW_VAUX_PRES - @m38_lib.M38	44B3
TP_LVDS_VBG	TP_LVDS_VBG - @m38_lib.M38	13D5
TP_MEM_A_A<14>	TP_MEM_A_A<14> - @m38_lib.M38	28C3
TP_MEM_A_A<15>	TP_MEM_A_A<15> - @m38_lib.M38	28C3
TP_MEM_B_A<14>	TP_MEM_B_A<14> - @m38_lib.M38	5B4 29C3
TP_MEM_B_A<15>	TP_MEM_B_A<15> - @m38_lib.M38	5B4 29C3
TP_NB_TESTIN_L	TP_NB_TESTIN_L - @m38_lib.M38	14D6
TP_NB_XOR_FSB2_H7	TP_NB_XOR_FSB2_H7 - @m38_lib.M38	14D6
TP_NB_XOR_LVDS_A34	TP_NB_XOR_LVDS_A34 - @m38_lib.M38	14C6
TP_NB_XOR_LVDS_A35	TP_NB_XOR_LVDS_A35 - @m38_lib.M38	14C6
TP_NB_XOR_LVDS_D27	TP_NB_XOR_LVDS_D27 - @m38_lib.M38	14C6
TP_NB_XOR_LVDS_D28	TP_NB_XOR_LVDS_D28 - @m38_lib.M38	14C6
TP_PCI_CLK_SPARE	TP_PCI_CLK_SPARE - @m38_lib.M38	5B4 34C4
TP_PCI_GNT0_L	TP_PCI_GNT0_L - @m38_lib.M38	22B6
TP_PCI_GNT1_L	TP_PCI_GNT1_L - @m38_lib.M38	22B6
TP_PCI_GNT2_L	TP_PCI_GNT2_L - @m38_lib.M38	22B6
TP_PCI_GNT4_L	TP_PCI_GNT4_L - @m38_lib.M38	22B6
TP_PCI_PME_L	TP_PCI_PME_L - @m38_lib.M38	22A6
TP_SB_ACZ_SDIN1	TP_SB_ACZ_SDIN1 - @m38_lib.M38	21C6
TP_SB_ACZ_SDIN2	TP_SB_ACZ_SDIN2 - @m38_lib.M38	21C6
TP_SB_DRQ0_L	TP_SB_DRQ0_L - @m38_lib.M38	21D4
TP_SB_GPIO6	TP_SB_GPIO6 - @m38_lib.M38	23C5
TP_SB_GPIO23	TP_SB_GPIO23 - @m38_lib.M38	21D5
TP_SB_GPIO25_DO_NOT_USE	TP_SB_GPIO25_DO_NOT_USE - @m38_lib.M38	23C3
TP_SB_GPIO38	TP_SB_GPIO38 - @m38_lib.M38	23C3
TP_SB_RSVD9	TP_SB_RSVD9 - @m38_lib.M38	22A6
TP_SB_SATALED_L	TP_SB_SATALED_L - @m38_lib.M38	21C6
TP_SB_XOR_AD5	TP_SB_XOR_AD5 - @m38_lib.M38	22A7
TP_SB_XOR_AD9	TP_SB_XOR_AD9 - @m38_lib.M38	22A7
TP_SB_XOR_AE5	TP_SB_XOR_AE5 - @m38_lib.M38	22A7
TP_SB_XOR_AE9	TP_SB_XOR_AE9 - @m38_lib.M38	22A6
TP_SB_XOR_AG4	TP_SB_XOR_AG4 - @m38_lib.M38	22A7
TP_SB_XOR_AG8	TP_SB_XOR_AG8 - @m38_lib.M38	22A6
TP_SB_XOR_AH4	TP_SB_XOR_AH4 - @m38_lib.M38	22A7
TP_SB_XOR_AH8	TP_SB_XOR_AH8 - @m38_lib.M38	22A6
TP_SB_XOR_T5	TP_SB_XOR_T5 - @m38_lib.M38	21C6
TP_SB_XOR_U3	TP_SB_XOR_U3 - @m38_lib.M38	21C6
TP_SB_XOR_U5	TP_SB_XOR_U5 - @m38_lib.M38	21C6
TP_SB_XOR_U7	TP_SB_XOR_U7 - @m38_lib.M38	21C6
TP_SB_XOR_V3	TP_SB_XOR_V3 - @m38_lib.M38	21C6
TP_SB_XOR_V4	TP_SB_XOR_V4 - @m38_lib.M38	21C6
TP_SB_XOR_V6	TP_SB_XOR_V6 - @m38_lib.M38	21C6
TP_SB_XOR_V7	TP_SB_XOR_V7 - @m38_lib.M38	21C6
TP_SB_XOR_W1	TP_SB_XOR_W1 - @m38_lib.M38	21C6
TP_SB_XOR_W3	TP_SB_XOR_W3 - @m38_lib.M38	21C6
TP_SB_XOR_Y1	TP_SB_XOR_Y1 - @m38_lib.M38	21C6
TP_SB_XOR_Y2	TP_SB_XOR_Y2 - @m38_lib.M38	21C6
TP_U5999_P1	TP_U5999_P1 - @m38_lib.M38	59A7
TP_U5999_P13	TP_U5999_P13 - @m38_lib.M38	59A5
TP_U5999_P14	TP_U5999_P14 - @m38_lib.M38	59A5
TP_U8400_AG14	TP_U8400_AG14 - @m38_lib.M38	91A5
TP_U8900_J2	TP_U8900_J2 - @m38_lib.M38	89A7
TP_U8900_J3	TP_U8900_J3 - @m38_lib.M38	89A7
TP_U8950_J2	TP_U8950_J2 - @m38_lib.M38	89A4
TP_U8950_J3	TP_U8950_J3 - @m38_lib.M38	89A4
TP_U9000_J2	TP_U9000_J2 - @m38_lib.M38	90A7
TP_U9000_J3	TP_U9000_J3 - @m38_lib.M38	90A7
TP_U9050_J2	TP_U9050_J2 - @m38_lib.M38	90A4
TP_U9050_J3	TP_U9050_J3 - @m38_lib.M38	90A4
TSENSE_GPU_DXP	TSENSE_GPU_DXP - @m38_lib.M38	61C5
TSENSE_NB_DXP	TSENSE_NB_DXP - @m38_lib.M38	61B5
TSENSE_NB_GPU_DXN	TSENSE_NB_GPU_DXN - @m38_lib.M38	61B5
TV_DACA_OUT	TV_DACA_OUT - @m38_lib.M38	13C5 19B1
	TV_DACB_OUT - @m38_lib.M38	13C5 19B1
	TV_DACC_OUT - @m38_lib.M38	13C5 19B1
	TV_IRTNA - @m38_lib.M38	13C5 19B1
	TV_IRTNB - @m38_lib.M38	13C5 19B1
	TV_IRTNC - @m38_lib.M38	13C5 19B1
	TV_IREF - @m38_lib.M38	13C5 19B1
	PP3V3_S0_NB_VCCA_TVBG - @m38_lib.M38	17C6 19B1
	PP3V3_S0_NB_VCCA_TVDACC - @m38_lib.M38	17C6 19B1
	PP3V3_S0_NB_VCCA_TVDACB - @m38_lib.M38	17C6 19B1
	PP3V3_S0_NB_VCCA_TVDACA - @m38_lib.M38	17C6 19B1
	=PP1V5_S0_NB_TVDAC - @m38_lib.M38	6C4 19B2 19D7
	=PP1V5_S0_AIRPORT - @m38_lib.M38	6C4 53D3
	PP1V5_S0 - @m38_lib.M38	6C6 80C2
	=PP1V5_S0_SB - @m38_lib.M38	6C4 25A8 25C8
	=PP1V5_S0_SB_VCC1_5_A - @m38_lib.M38	6C4 24A3 25C1
	=PP1V5_S0_SB_VCC1_5_A_USB_CORE - @m38_lib.M38	6C4 24A3 25B1
	=PP1V5_S0_SB_VCCUSBPLL - @m38_lib.M38	6C4 24A5 25B6
	=PP1V5_S0_SB_VCC1_5_A_ATX - @m38_lib.M38	6C4 24A5 25C6
	=PP1V5_S0_SB_VCCSATAPLL - @m38_lib.M38	6C4 24B5 25D6
	=PP1V5_S0_SB_VCC1_5_A_ARX - @m38_lib.M38	6C4 24B5 25D6
	=PP1V5_S0_NB_3GPLL - @m38_lib.M38	6C4 19A6 19A6
	=PP1V5_S0_NB_PLL - @m38_lib.M38	6C4 19C8 19D7
	=PP1V5_S0_NB_VCCAUX - @m38_lib.M38	6C4 6C4 16D1 17B6 19A7 19D7
	=PP1V5_S0_NB_VCCD_HMPLL - @m38_lib.M38	6C4 17C6 19D7
	=PP1V5_S0_NB_PCIE - @m38_lib.M38	6C4 13D2 19D7
	=PP1V5_S0_CPU - @m38_lib.M38	6C4 8B6 8C5
	TV_IRTNC - @m38_lib.M38	13C5 19B1
	TV_IRTNB - @m38_lib.M38	13C5 19B1
	TV_IRTNA - @m38_lib.M38	13C5 19B1
	TV_IREF - @m38_lib.M38	13C5 19B1
	TV_DACC_OUT - @m38_lib.M38	13C5 19B1
	TV_DACB_OUT - @m38_lib.M38	13C5 19B1
	PP3V3_S0_NB_VCCA_TVDACC - @m38_lib.M38	17C6 19B1
	PP3V3_S0_NB_VCCA_TVDACB - @m38_lib.M38	17C6 19B1
	PP3V3_S0_NB_VCCA_TVDACA - @m38_lib.M38	17C6 19B1
	PP3V3_S0_NB_VCCA_TVBG - @m38_lib.M38	17C6 19B1
	PP1V5_S0 - @m38_lib.M38	6C6 80C2
	=PP1V5_S0_SB_VCCUSBPLL - @m38_lib.M38	6C4 24A5 25B6
	=PP1V5_S0_SB_VCCSATAPLL - @m38_lib.M38	6C4 24B5 25D6
	=PP1V5_S0_SB_VCC1_5_A_USB_CORE - @m38_lib.M38	6C4 24A3 25B1
	=PP1V5_S0_SB_VCC1_5_A_ATX - @m38_lib.M38	6C4 24A5 25C6
	=PP1V5_S0_SB_VCC1_5_A_ARX - @m38_lib.M38	6C4 24B5 25D6
	=PP1V5_S0_SB_VCC1_5_A - @m38_lib.M38	6C4 24A3 25C1
	=PP1V5_S0_SB - @m38_lib.M38	6C4 25A8 25C8
	=PP1V5_S0_NB_VCCD_HMPLL - @m38_lib.M38	6C4 17C6 19D7
	=PP1V5_S0_NB_VCCAUX - @m38_lib.M38	6C4 6C4 16D1 17B6 19A7 19D7
	=PP1V5_S0_NB_TVDAC - @m38_lib.M38	6C4 19B2 19D7
	=PP1V5_S0_NB_PLL - @m38_lib.M38	6C4 19C8 19D7
	=PP1V5_S0_NB_PCIE - @m38_lib.M38	6C4 13D2 19D7
	=PP1V5_S0_NB_3GPLL - @m38_lib.M38	6C4 19A6 19A6
	=PP1V5_S0_NB - @m38_lib.M38	6C4 19B2 19D7
	=PP1V5_S0_CPU - @m38_lib.M38	6C4 8B6 8C5
	=PP1V5_S0_AIRPORT - @m38_lib.M38	6C4 53D3
U600_3	U600_3 - @m38_lib.M38	6C7
U600_6	U600_6 - @m38_lib.M38	6B7
U600_8	U600_8 - @m38_lib.M38	6B7
U600_11	U600_11 - @m38_lib.M38	6A7
U2698_4	U2698_4 - @m38_lib.M38	26C4
U3100_VDDQ	U3100_VDDQ - @m38_lib.M38	31C5
U6100_VCC	U6100_VCC - @m38_lib.M38	61C4
U8595_1	U8595_1 - @m38_lib.M38	85D2
USB_AIRPORT_N	USB_AIRPORT_N - @m38_lib.M38	53B4
USB_AIRPORT_P	USB_AIRPORT_P - @m38_lib.M38	53B4
USB_A_N	USB_A_N - @m38_lib.M38	22C2 47D7
USB_A_OC_L	USB_A_OC_L - @m38_lib.M38	22C4 22D8 47B8 47B8
USB_A_P	USB_A_P - @m38_lib.M38	22C2 47C7
USB_B_N	USB_B_N - @m38_lib.M38	22C2 53B2
USB_B_OC_L	USB_B_OC_L - @m38_lib.M38	22C4 22D8 47B8
USB_B_P	USB_B_P - @m38_lib.M38	22C2 53B2
USB_CAMERA_N	USB_CAMERA_N - @m38_lib.M38	47B2
USB_CAMERA_P	USB_CAMERA_P - @m38_lib.M38	47B2
USB_C_N	USB_C_N - @m38_lib.M38	22C2 47B7
USB_C_OC_L	USB_C_OC_L - @m38_lib.M38	22C4 22D8 47B7 47B8
USB_C_P	USB_C_P - @m38_lib.M38	22C2 47B7
USB_D_N	USB_D_N - @m38_lib.M38	22C2 47B3
USB_D_OC_L	USB_D_OC_L - @m38_lib.M38	22C4 22D8 47B7
USB_D_P	USB_D_P - @m38_lib.M38	22C2 47B3
USB_E_N	USB_E_N - @m38_lib.M38	22C2 47A7
USB_E_OC_L	USB_E_OC_L - @m38_lib.M38	22C4 22D8 47B7
USB_E_P	USB_E_P - @m38_lib.M38	22C2 47A7
USB_F_N	USB_F_N - @m38_lib.M38	22C2 49C6
	USB_FLASH_N - @m38_lib.M38	49C5
USB_F_P	USB_F_P - @m38_lib.M38	22C2 49C6
	USB_FLASH_P - @m38_lib.M38	49C5
USB_G_N	USB_G_N - @m38_lib.M38	22C2 47A3
	USB_BT_N - @m38_lib.M38	47A3
USB_G_P	USB_G_P - @m38_lib.M38	22C2 47A3
	USB_BT_P - @m38_lib.M38	47A3
USB_H_N	USB_H_N - @m38_lib.M38	22C2 47C3
USB_H_P	USB_H_P - @m38_lib.M38	22C2 47C3
USB_IR_N	USB_IR_N - @m38_lib.M38	47C2
USB_IR_P	USB_IR_P - @m38_lib.M38	47C2
USB_PORT0_N	USB_PORT0_N - @m38_lib.M38	47D5
USB_PORT0_P	USB_PORT0_P - @m38_lib.M38	47C5
USB_PORT1_N	USB_PORT1_N - @m38_lib.M38	47B5
USB_PORT1_P	USB_PORT1_P - @m38_lib.M38	47B5
USB_PORT2_N	USB_PORT2_N - @m38_lib.M38	47A5
USB_PORT2_P	USB_PORT2_P - @m38_lib.M38	47A5
USB_RBIAS_PN	USB_RBIAS_PN - @m38_lib.M38	22C2
VGA_B	VGA_B - @m38_lib.M38	97B6 97C5
VGA_G	VGA_G - @m38_lib.M38	97A6 97C5
VGA_HSYNC	VGA_HSYNC - @m38_lib.M38	97A3 97C5
VGA_R	VGA_R - @m38_lib.M38	97A6 97C5
VGA_VSYNC	VGA_VSYNC - @m38_lib.M38	97A3 97C5
VMAIN_AVLBL	VMAIN_AVLBL - @m38_lib.M38	41C7
VOL_DOWN	VOL_DOWN - @m38_lib.M38	68A6 68C7
VOL_UP	VOL_UP - @m38_lib.M38	68A6 68C7
VREG_FB	VREG_FB - @m38_lib.M38	68A3
VR_PWRGD_CK410	VR_PWRGD_CK410 - @m38_lib.M38	23C5 26A8
VR_PWRGOOD_DELAY	VR_PWRGOOD_DELAY - @m38_lib.M38	5C7 14B6 26D5 75C6
XDP_BPM_L<0>	XDP_BPM_L<0> - @m38_lib.M38	7C6 11B3
XDP_BPM_L<1>	XDP_BPM_L<1> - @m38_lib.M38	7C6 11B3
XDP_BPM_L<2>	XDP_BPM_L<2> - @m38_lib.M38	7C6 11B3
XDP_BPM_L<3>	XDP_BPM_L<3> - @m38_lib.M38	7C6 11B3
XDP_BPM_L<4>	XDP_BPM_L<4> - @m38_lib.M38	7C6 11B3
XDP_BPM_L<5>	XDP_BPM_L<5> - @m38_lib.M38	7C6 11B3
XDP_DBRESET_L	XDP_DBRESET_L - @m38_lib.M38	7C6 11B4 26B5
XDP_TCK	XDP_TCK - @m38_lib.M38	5D1 7A8 7C6 11B3 11B3 59A1 59A6
XDP_TDI	XDP_TDI - @m38_lib.M38	5D1 7B8 7C6 11B3 59B2
XDP_TDO	XDP_TDO - @m38_lib.M38	5D1 7C6 11B5 59A6
XDP_TMS	XDP_TMS - @m38_lib.M38	5D1 7B8 7C6 11B3 59B1
XDP_TRST_L	XDP_TRST_L - @m38_lib.M38	5D1 7C6 11B3 59A2
ZH701P1	ZH701P1 - @m38_lib.M38	6A3
ZH702P1	ZH702P1 - @m38_lib.M38	6A3
ZH703P1	ZH703P1 - @m38_lib.M38	6A3
ZH704P1	ZH704P1 - @m38_lib.M38	6B3

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C85A0	CAP_402	m38[85D1]
C600	CAP_402	m38[6C7]
C601	CAP_402	m38[6A3]
C602	CAP_402	m38[6A3]
C603	CAP_402	m38[6A3]
C604	CAP_402	m38[6A4]
C610	CAP_402	m38[6C7]
C699	CAP_P_CASE-C1	m38[6D7]
C0800	CAP_402	m38[8B5]
C0801	CAP_603	m38[8B5]
C900	CAP_805	m38[9B6]
C901	CAP_805	m38[9B6]
C902	CAP_805	m38[9A6]
C903	CAP_805	m38[9A6]
C904	CAP_805	m38[9A6]
C905	CAP_805	m38[9A6]
C906	CAP_805	m38[9A6]
C907	CAP_805	m38[9B5]
C908	CAP_805	m38[9B7]
C909	CAP_805	m38[9B5]
C910	CAP_805	m38[9B7]
C911	CAP_805	m38[9B7]
C912	CAP_805	m38[9A7]
C913	CAP_805	m38[9A7]
C914	CAP_805	m38[9A7]
C915	CAP_805	m38[9A7]
C916	CAP_805	m38[9A7]
C917	CAP_805	m38[9A7]
C918	CAP_805	m38[9A7]
C919	CAP_805	m38[9A7]
C920	CAP_805	m38[9A5]
C921	CAP_805	m38[9A7]
C922	CAP_805	m38[9A7]
C923	CAP_805	m38[9B7]
C924	CAP_805	m38[9A7]
C925	CAP_805	m38[9A7]
C926	CAP_402	m38[9B7]
C928	CAP_805	m38[9B6]
C929	CAP_805	m38[9B5]
C930	CAP_805	m38[9A6]
C931	CAP_805	m38[9A5]
C932	CAP_805	m38[9A6]
C934	CAP_402	m38[9B7]
C935	CAP_402	m38[9B7]
C936	CAP_402	m38[9B7]
C937	CAP_402	m38[9B6]
C938	CAP_402	m38[9B6]
C939	CAP_805	m38[9A5]
C940	CAP_P_CASE-C1	m38[9C7]
C941	CAP_P_3P_D2T	m38[9A7]
C942	CAP_P_3P_D2T	m38[9A7]
C943	CAP_P_3P_D2T	m38[9A7]
C944	CAP_P_3P_D2T	m38[9A7]
C945	CAP_P_3P_D2T	m38[9A6]
C946	CAP_P_3P_D2T	m38[9A6]
C950	CAP_402	m38[9D4]
C951	CAP_402	m38[9D3]
C952	CAP_402	m38[9D3]
C953	CAP_402	m38[9D2]
C1000	CAP_402	m38[10C6]
C1001	CAP_402	m38[10D4]
C1100	CAP_402	m38[11A3]
C1211	CAP_402	m38[12C3]
C1226	CAP_402	m38[12B6]
C1236	CAP_402	m38[12A6]
C1610	CAP_402	m38[16B5]
C1611	CAP_402	m38[16B4]
C1612	CAP_402	m38[16B4]
C1613	CAP_402	m38[16B8]
C1614	CAP_402	m38[16B8]
C1615	CAP_402	m38[16B6]
C1620	CAP_603	m38[16B5]
C1621	CAP_603	m38[16B5]
C1711	CAP_402	m38[17A3]
C1712	CAP_402	m38[17A3]
C1713	CAP_402	m38[17B3]
C1900	CAP_P_CASE-C1	m38[19B5]
C1901	CAP_P_CASE-C1	m38[19B5]
C1902	CAP_603	m38[19B5]
C1903	CAP_603	m38[19B4]
C1904	CAP_402	m38[19B4]
C1905	CAP_402	m38[19B4]
C1906	CAP_402	m38[19B3]
C1907	CAP_402	m38[19B3]
C1914	CAP_603	m38[19A8]
C1915	CAP_402	m38[19A7]
C1916	CAP_402	m38[19A8]
C1918	CAP_402	m38[19A7]
C1920	CAP_402	m38[19A2]
C1921	FILTER_3P_A_NFM18	m38[19B2]
C1934	CAP_805	m38[19C7]
C1935	CAP_402	m38[19C7]
C1936	CAP_805	m38[19C7]
C1937	CAP_402	m38[19C7]
C1965	CAP_603	m38[19B8]
C1966	CAP_603	m38[19B7]
C1967	CAP_402	m38[19B7]
C1968	CAP_P_CASE-C1	m38[19B7]
C1970	CAP_P_SMB2	m38[19A5]
C1971	CAP_603	m38[19A4]
C1972	CAP_603	m38[19A4]
C1975	CAP_603	m38[19A4]
C1976	CAP_402	m38[19A4]
C1981	CAP_603	m38[19B6]
C1982	CAP_603	m38[19B8]
C2500	CAP_P_SMB2	m38[25B8]
C2501	CAP_402	m38[25A6]
C2502	CAP_402	m38[25D4]
C2503	CAP_402	m38[25D8]
C2504	CAP_402	m38[25C8]
C2505	CAP_402	m38[25B7]
C2506	CAP_402	m38[25B7]
C2507	CAP_402	m38[25B7]
C2508	CAP_603	m38[25A6]
C2509	CAP_402	m38[25B8]
C2510	CAP_402	m38[25C1]
C2511	CAP_402	m38[25D6]
C2512	CAP_402	m38[25B1]
C2513	CAP_402	m38[25C6]
C2514	CAP_402	m38[25C6]
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C2516	CAP_P_CASE-C2	m38[25D3]
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C2520	CAP_402	m38[25B6]
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C2522	CAP_402	m38[25B3]
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C2524	CAP_603	m38[25B3]
C2525	CAP_402	m38[25B3]
C2526	CAP_402	m38[25A4]
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C2528	CAP_402	m38[25A3]
C2529	CAP_402	m38[25A3]
C2530	CAP_402	m38[25A3]
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C2532	CAP_402	m38[25C1]
C2533	CAP_402	m38[25C1]
C2534	CAP_402	m38[25D1]
C2605	CAP_402	m38[26C7]
C2607	CAP_402	m38[26D5]
C2608	CAP_402	m38[26D8]
C2609	CAP_402	m38[26D8]
C2610	CAP_402	m38[26C7]
C2611	CAP_402	m38[26B7]
C2698	CAP_402	m38[26C4]
C2699	CAP_402	m38[26C5]
C2800	CAP_402	m38[28D6]
C2801	CAP_603	m38[28B2]
C2802	CAP_603	m38[28B2]
C2803	CAP_603	m38[28B1]
C2804	CAP_603	m38[28B1]
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C2819	CAP_402	m38[28B2]
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C2851	CAP_603	m38[28A6]
C2852	CAP_402	m38[28A6]
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C2908	CAP_402	m38[29B2]
C2909	CAP_402	m38[29B2]
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C2923	CAP_402	m38[29B1]
C2950	CAP_603	m38[29D6]
C2951	CAP_603	m38[29A7]
C2952	CAP_402	m38[29A6]
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C3009	CAP_402	m38[30A4]
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C3011	CAP_402	m38[30D3]
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C3014	CAP_402	m38[30A4]
C3015	CAP_402	m38[30A3]
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C3307	CAP_402	m38[33C4]
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C3316	CAP_603	m38[33D7]
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C3390	CAP_402	m38[33C7]
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C3801	CAP_402	m38[38B7]
C3802	CAP_402	m38[38B7]
C3803	CAP_402	m38[38B7]
C3804	CAP_402	m38[38C3]
C3805	CAP_402	m38[38C2]
C3806	CAP_805-2	m38[38C1]
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C4103	CAP_402	m38[41D6]
C4104	CAP_402	m38[41D6]
C4105	CAP_402	m38[41D5]
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C4112	CAP_402	m38[41C4]
C4113	CAP_402	m38[41C4]
C4115	CAP_402	m38[41B5]
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C4118	CAP_402	m38[41B2]
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C4140	CAP_402	m38[41B3]
C4150	CAP_402	m38[41D5]
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C4202	CAP_1210	m38[42D7]
C4203	CAP_1206-1	m38[42D6]
C4204	CAP_402	m38[42D6]
C4205	CAP_1210	m38[42C5]
C4206	CAP_402	m38[42C5]
C4209	CAP_603	m38[42B7]
C4210	CAP_402	m38[42B6]
C4300	CAP_402	m38[43D7]
C4301	CAP_402	m38[43D6]
C4304	CAP_402	m38[43C6]
C4305	CAP_402	m38[43B6]
C4401	CAP_402	m38[44D1]
C4402	CAP_402	m38[44C1]
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C4503	CAP_603	m38[45C6]
C4504	CAP_402	m38[45C4]
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C4507	CAP_402	m38[45C5]
C4508	CAP_402	m38[45D5]
C4509	CAP_402	m38[45D5]
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C4515	CAP_603	m38[45D6]
C4520	CAP_402	m38[45D5]
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C4522	CAP_402	m38[45D3]
C4523	CAP_402	m38[45D3]
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C4611	CAP_402	m38[46D4]
C4612	CAP_402	m38[46C4]
C4613	CAP_402	m38[46C4]
C4615	CAP_603-1	m38[46C2]
C4616	CAP_402	m38[46B2]
C4620	CAP_402	m38[46B4]
C4621	CAP_402	m38[46B4]
C4622	CAP_402	m38[46A4]
C4623	CAP_402	m38[46A4]
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C4626	CAP_402	m38[46A2]
C4650	CAP_402	m38[46C7]
C4654	CAP_402	m38[46B8]
C4660	CAP_402	m38[46C7]
C4664	CAP_402	m38[46B7]
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C4712	CAP_402	m38[47D5]
C4713	CAP_402	m38[47D5]
C4720	CAP_P_SMD	m38[47C6]
C4722	CAP_402	m38[47C5]
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C4732	CAP_402	m38[47A5]
C4733	CAP_402	m38[47A5]
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C4743	CAP_402	m38[47D1]
C4797	CAP_805-2	m38[47D3]
C4798	CAP_402	m38[47A2]
C4799	CAP_805-2	m38[47A2]
C4950	CAP_805-2	m38[49C4]
C4951	CAP_402	m38[49C4]
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C5301	CAP_402	m38[53B7]
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C5306	CAP_402	m38[53D4]
C5307	CAP_402	m38[53C4]
C5308	CAP_402	m38[53C5]
C5309	CAP_402	m38[53C4]
C5310	CAP_402	m38[53C4]
C5311	CAP_603	m38[53C3]
C5312	CAP_603	m38[53D4]
C5313	CAP_402	m38[53C5]
C5314	CAP_603	m38[53C4]
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C6003	CAP_402	m38[60C6]
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C6301	CAP_402	m38[63C2]
C6308	CAP_402	m38[63C5]
C6309	CAP_402	m38[63C6]
C6311	CAP_402	m38[63C2]
C6312	CAP_402	m38[63D3]
C6500	CAP_603	m38[65D5]
C6501	CAP_805	m38[65D5]
C6502	CAP_603	m38[65B4]
C6503	CAP_805	m38[65B5]
C6504	CAP_P_6.3X11-TH-LF	m38[65C4]
C6505	CAP_P_6.3X11-TH-LF	m38[65B3]
C6600	CAP_603	m38[66D4]
C6601	CAP_805	m38[66C5]
C6602	CAP_P_SM-LF	m38[66C3]
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C6651	CAP_402	m38[66A5]
C6652	CAP_402	m38[66B3]
C6653	CAP_402	m38[66A3]
C6654	CAP_402	m38[66B4]
C6655	CAP_402	m38[66B2]
C6700	CAP_402	m38[67C4]
C6701	CAP_402	m38[67C4]
C6702	CAP_402	m38[67C3]
C6703	CAP_402	m38[67C3]
C6704	CAP_402	m38[59B7]
C6705	CAP_402	m38[59B7]
C6800	CAP_603	m38[68D6]
C6801	CAP_402	m38[68D6]
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C6803	CAP_P_B2	m38[68D3]
C6804	CAP_P_SMA-LF	m38[68B4]
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C6807	CAP_P_SMA-LF	m38[68B3]
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C6812	CAP_402	m38[68B4]
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C6821	CAP_402	m38[68C6]
C6822	CAP_603	m38[68A5]
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C6825	CAP_402	m38[68A3]
C6826	CAP_603	m38[68A3]
C6829	CAP_402	m38[68B3]
C6830	CAP_402	m38[68D4]
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C6836	CAP_402	m38[68D3]
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C7203	CAP_1210	m38[72D3]
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C7205	CAP_805	m38[72C6]
C7206	CAP_805	m38[72C6]
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C7208	CAP_603-1	m38[72C4]
C7209	CAP_805	m38[72B4]
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C7211	CAP_402	m38[72B2]
C7212	CAP_402	m38[72B2]
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C7214	CAP_603	m38[72B5]
C7215	CAP_402	m38[72C6]
C7216	CAP_402	m38[72C6]
C7217	CAP_P_6.3X8-SM	m38[72D6]
C7218	CAP_603	m38[72D5]
C7219	CAP_603	m38[72D4]
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C7221	CAP_402	m38[72B7]
C7223	CAP_1210	m38[72D3]
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C7302	CAP_402	m38[73D6]
C7303	CAP_402	m38[73D6]
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C7312	CAP_402	m38[73A6]
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C7314	CAP_402	m38[73A7]
C7315	CAP_402	m38[73A6]
C7317	CAP_402	m38[73B4]
C7318	CAP_805	m38[73B4]
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C7322	CAP_402	m38[73C5]
C7323	CAP_402	m38[73A6]
C7324	CAP_402	m38[73A5]
C7400	CAP_402	m38[74B4]
C7401	CAP_402	m38[74C4]
C7402	CAP_402	m38[74A4]
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C7404	CAP_P_CASE-B-SM	m38[74B6]
C7405	CAP_P_CASE-B-SM	m38[74C7]
C7406	CAP_P_CASE-B-SM	m38[74C6]
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C7408	CAP_402	m38[74D7]
C7409	CAP_402	m38[74B8]
C7410	CAP_402	m38[74A8]
C7411	CAP_402	m38[74B8]
C7412	CAP_402	m38[74A8]
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C7414	CAP_402	m38[74A7]
C7415	CAP_402	m38[74A8]
C7416	CAP_402	m38[74A8]
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C7418	CAP_805	m38[74A5]
C7419	CAP_603-1	m38[74A4]
C7420	CAP_402	m38[74A7]
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C7422	CAP_402	m38[74A7]
C7423	CAP_402	m38[74A7]
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C7501	CAP_P_TH-MCZ	m38[75C2]
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C7504	CAP_402	m38[75B1]
C7505	CAP_402	m38[75C8]
C7506	CAP_402	m38[75B7]
C7507	CAP_402	m38[75B7]
C7508	CAP_1210	m38[75C2]
C7509	CAP_1210	m38[75D1]
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C7511	CAP_603	m38[75B2]
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C7513	CAP_402	m38[75B7]
C7514	CAP_402	m38[75B8]
C7515	CAP_603	m38[75C4]
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C7518	CAP_P_SM-3	m38[75D2]
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C7527	CAP_603	m38[75C5]
C7528	CAP_402	m38[75B5]
C7529	CAP_402	m38[75B5]
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C7534	CAP_402	m38[75B5]
C7535	CAP_603	m38[75D5]
C7550	CAP_603	m38[75D1]
C7551	CAP_603	m38[75D1]
C7590	CAP_402	m38[75C3]
C7592	CAP_402	m38[75B3]
C7596	CAP_402	m38[75D6]
C7597	CAP_1210	m38[75D1]
C7598	CAP_1210	m38[75D1]
C7599	CAP_402	m38[76D6]
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C7601	CAP_402	m38[76D3]
C7602	CAP_402	m38[76D2]
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C7659	CAP_402	m38[76D4]
C7669	CAP_402	m38[76D4]
C7700	CAP_603	m38[77D4]
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C7704	CAP_402	m38[77C4]
C7706	CAP_402	m38[77C4]
C7709	CAP_805	m38[77C3]
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C7711	CAP_402	m38[77B7]
C7712	CAP_402	m38[77C7]
C7750	CAP_402	m38[77A5]
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C7753	CAP_402	m38[77A7]
C7754	CAP_402	m38[77B6]
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C7756	CAP_805	m38[77B3]
C7757	CAP_402	m38[77A6]
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C7803	CAP_603	m38[78B6]
C7804	CAP_402	m38[78C6]
C7805	CAP_603	m38[78C4]
C7806	CAP_805-1	m38[78B2]
C7807	CAP_P_CASE-D2E-LF	m38[78B3]
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C7810	CAP_402	m38[78B4]
C7811	CAP_402	m38[78B5]
C7813	CAP_1206	m38[78B4]
C7814	CAP_402	m38[78B5]
C7817	CAP_P_CASE-D2E-LF	m38[78B2]
C7900	CAP_402	m38[79D6]
C7901	CAP_603	m38[79D5]
C7902	CAP_402	m38[79C5]
C7903	CAP_603	m38[79C7]
C7906	CAP_402	m38[79C5]
C7907	CAP_402	m38[79C3]
C7908	CAP_402	m38[79C5]
C7909	CAP_1206	m38[79C4]
C7910	CAP_P_SM-3	m38[79D4]
C7911	CAP_1210	m38[79D3]
C7912	CAP_P_CASE-D2E-LF	m38[79C3]
C7913	CAP_1206	m38[79C2]
C7980	CAP_402	m38[79B3]
C7992	CAP_603	m38[79D6]
C7998	CAP_P_CASE-D2E-LF	m38[79C3]
C8000	CAP_1210	m38[80D3]
C8001	CAP_P_CASE-D2E-LF	m38[80C3]
C8002	CAP_603	m38[80D6]
C8003	CAP_402	m38[80C3]
C8004	CAP_1206	m38[80C4]
C8005	CAP_402	m38[80C4]
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C8010	CAP_603	m38[80C4]
C8011	CAP_402	m38[80C5]
C8012	CAP_402	m38[80C5]
C8014	CAP_P_TH-MCZ	m38[80D4]
C8015	CAP_1210	m38[80D3]
C8016	CAP_805-1	m38[80C2]
C8099	CAP_P_CASE-D2E-LF	m38[80C2]
C8100	CAP_402	m38[81D6]
C8101	CAP_603	m38[81C5]
C8102	CAP_402	m38[81C5]
C8103	CAP_603	m38[81C7]
C8106	CAP_402	m38[81C5]
C8107	CAP_402	m38[81C3]
C8108	CAP_402	m38[81C5]
C8109	CAP_1206	m38[81C4]
C8110	CAP_1210	m38[81D4]
C8111	CAP_1210	m38[81D3]
C8112	CAP_1210	m38[81D3]
C8114	CAP_P_CASE-D2E-LF	m38[81C3]
C8115	CAP_805-1	m38[81C2]
C8190	CAP_P_CASE-D2E-LF	m38[81C3]
C8192	CAP_603	m38[81D6]
C8198	CAP_1210	m38[81D3]
C8199	CAP_402	m38[81A5]
C8398	CAP_603	m38[83B4]
C8399	CAP_603	m38[83C4]
C8400	CAP_805	m38[84C7]
C8401	CAP_402	m38[84C7]
C8402	CAP_402	m38[84C7]
C8405	CAP_805	m38[84B7]
C8406	CAP_402	m38[84B7]
C8407	CAP_402	m38[84B7]
C8410	CAP_805	m38[84B6]
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C8502	CAP_603	m38[85D6]
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C8507	CAP_402	m38[85C7]
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C8522	CAP_402	m38[85C5]
C8523	CAP_402	m38[85B2]
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C8531	CAP_1210	m38[85D4]
C8532	CAP_1210	m38[85D4]
C8540	CAP_805	m38[85C2]
C8541	CAP_805	m38[85C2]
C8542	CAP_P_CASE-D2E-LF	m38[85C2]
C8543	CAP_P_CASE-D2E-LF	m38[85C2]
C8551	CAP_603	m38[85B8]
C8555	CAP_402	m38[85B7]
C8556	CAP_805	m38[85B6]
C8557	CAP_805	m38[85B6]
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C8595	CAP_402	m38[85D1]
C8598	CAP_402	m38[85D2]
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C8690	CAP_805	m38[86D5]
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C8695	CAP_805	m38[86D2]
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C8970	CAP_805	m38[89C5]
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C8983	CAP_402	m38[89C3]
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C9081	CAP_402	m38[90C3]
C9083	CAP_402	m38[90C3]
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C9103	CAP_402	m38[91C5]
C9110	CAP_805	m38[91C5]
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C9127	CAP_402	m38[91B5]
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C9140	CAP_805	m38[91A6]
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C9142	CAP_402	m38[91A5]
C9191	CAP_402	m38[91D2]
C9300	CAP_805	m38[93C6]
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C9302	CAP_402	m38[93C5]
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C9306	CAP_402	m38[93C6]
C9307	CAP_402	m38[93C5]
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C9311	CAP_402	m38[93C6]
C9312	CAP_402	m38[93C5]
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C9322	CAP_402	m38[93B5]
C9325	CAP_805	m38[93B8]
C9326	CAP_402	m38[93B8]
C9327	CAP_402	m38[93B7]
C9330	CAP_805	m38[93B6]
C9331	CAP_402	m38[93B6]
C9332	CAP_402	m38[93B5]
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C9342	CAP_402	m38[93A5]
C9345	CAP_805	m38[93A6]
C9346	CAP_402	m38[93A5]
C9347	CAP_402	m38[93A5]
C9400	CAP_603-1	m38[94C7]
C9401	CAP_402	m38[94C6]
C9410	CAP_402	m38[94C6]
C9420	CAP_1210	m38[94C5]
C9450	CAP_805	m38[94C2]
C9470	CAP_402	m38[94B2]
C9700	CAP_402	m38[97C8]
C9710	CAP_603	m38[97C3]
C9711	CAP_402	m38[97D3]
C9713	CAP_402	m38[97C2]
C9714	CAP_402	m38[97C2]
C9740	CAP_402	m38[97A7]
C9741	CAP_402	m38[97A6]
C9742	CAP_402	m38[97A6]
D2500	DIODE_SCHOT_SOT23	m38[25C8]
D2501	DIODE_SCHOT_SOT23	m38[25D8]
D2600	DIODE_SCHOT_SOT23	m38[26D8]
D2601	DIODE_SCHOT_SOT23	m38[26C8]
D4600	DIODE_SMC	m38[46D5]
D4690	ZENER_SOT23	m38[46A6]
D4700	DIODE_SCHOT_3P_A_SC-75	m38[47C5]
D4701	DIODE_SCHOT_3P_A_SC-75	m38[47B5]
D4702	DIODE_SCHOT_3P_A_SC-75	m38[47A5]
D4705	DIODE_SCHOT_3P_A_SC-75	m38[47C6]
D4706	DIODE_SCHOT_3P_A_SC-75	m38[47B6]
D4707	DIODE_SCHOT_3P_A_SC-75	m38[47A6]
D4900	DIODE_SCHOT_3P_A_SC-75	m38[49B4]
D6500	DIODE_SOT23	m38[65C4]
D6501	DIODE_SOT23	m38[65B4]
D6502	DIODE_SCHOT_SMB	m38[65C4]
D6503	DIODE_SCHOT_SMB	m38[65B4]
D6600	DIODE_SOT23	m38[66C4]
D6601	DIODE_SCHOT_SMB	m38[66C3]
D7500	DIODE_SCHOT_SMB	m38[75C3]
D7501	DIODE_SCHOT_SMB	m38[75B2]
D7599	DIODE_SOT23	m38[76D6]
D8520	DIODE_SCHOT_SMB	m38[85C3]
D9700	ZENER_CASE425	m38[97C1]
DP4610	DIODE_DUAL_6P_SOT-36-3	m38[46D4 46D3]
DP4611	DIODE_DUAL_6P_SOT-36-3	m38[46C4 46C3]
DP4620	DIODE_DUAL_6P_SOT-36-3	m38[46B4 46B3]
DP4621	DIODE_DUAL_6P_SOT-36-3	m38[46A4 46A3]
DZ7300	SUPPR_TRANSIENT_4P1_0405	m38[73C6]
DZ7301	SUPPR_TRANSIENT_4P1_0405	m38[73A5]
DZ7302	SUPPR_TRANSIENT_4P1_0405	m38[73A4]
DZ7303	SUPPR_TRANSIENT_4P1_0405	m38[73C5]
DZ7304	SUPPR_TRANSIENT_4P1_0405	m38[73C4]
F4600	FUSE_SM-LF	m38[46D2]
F4601	FUSE_SM-LF	m38[46D2]
F4602	FUSE_MINISMD-LF	m38[46D3]
F4701	FUSE_MINISMD-LF	m38[47D3]
F9710	FUSE_SM-LF	m38[97D5]
FL4610	FILTER_4P_2012	m38[46C3]
FL4620	FILTER_4P_2012	m38[46B3]
FL9740	FILTER_LC_SM-220MHZ-LF	m38[97B7]
FL9741	FILTER_LC_SM-220MHZ-LF	m38[97A7]
FL9742	FILTER_LC_SM-220MHZ-LF	m38[97A7]
FLE011	FILTER_4P_2012	m38[46C3]
FLE021	FILTER_4P_2012	m38[46B3]
GV3801	HOLE_VIA	m38[38A8]
GV3802	HOLE_VIA	m38[38A7]
GV3803	HOLE_VIA	m38[38A8]
GV3804	HOLE_VIA	m38[38A7]
GV3805	HOLE_VIA	m38[38A8]
GV3806	HOLE_VIA	m38[38A7]
GV3807	HOLE_VIA	m38[38A8]
GV3808	HOLE_VIA	m38[38A7]
J2	CON_2RTSM_125_SM-2MT-BLK-LF	m38[61B7]
J3	CON_2RTSM_125_SM-2MT-BLK-LF	m38[61B6]

J600	CON_M12RT_D_THA_M-RT-TH	m38[6D7]
J0700	CPU_YONAH_SKT_BGA	m38[7C3 7D7]
J0700	CPU_YONAH_SKT_BGA	m38[8D4 8D8]
J1000	CON_2RTSM_125_SM-2MT-BLK-LF	m38[10B7]
J1101	CON_F28RT_S2MT_SM_F-RT-SM	m38[11C2]
J2600	BATTERY_2P_TH	m38[26C8]
J2800	CON_F200RT_DDR2DIMM_5MT_SM_F-RT-SM1	m38[28D5]
J2900	CON_F200RT_DDR2DIMM_5MT_SM_F-RT-SM1	m38[29D5]
J2901	CON_F4ST_S2MT_SM_F-S-T-SM	m38[59C7]
J2903	CON_M2ST_S2MT_SM_M-S-T-SM	m38[59C8]
J4700	CON_F10ST_D_SMA_F-ST-SM	m38[47A2]
J4950	CON_M4RT_S2MT_SM_M-R-T-SM	m38[49C4]
J5300	CON_F52RT_D2MT_SM_F-RT-SM	m38[53C5]
J6000	CON_F30STSM_5047_SM1	m38[60B5]
J6500	CON_M4RT_S2MT_SM_M-R-T-SM	m38[65D3]
J6501	CON_M5RT_S2MT_SMA_M-RT-SM	m38[65B2]
J6600	CON_F4ST_S2MT_SM_F-S-T-SM	m38[66C2]
J6601	CON_M4RT_S2MT_SM_M-R-T-SM	m38[66B5]
J6602	CON_M4RT_S2MT_SM_M-R-T-SM	m38[66B3]
J7300	CON_F4ST_S4MT_TH1_F-ST-TH	m38[73D8]
J7301	CON_M7RT_S2MT_SM_M-R-T-SM	m38[73D1]
J7303	CON_F9ANG_S4MT_TH1_F-ANG-TH	m38[73B3]
J9401	CON_M4ST_S_SM_M-ST-SM	m38[94C2]
J9402	CON_F30ST_D_SM_F-ST-SM	m38[94B6]
J9410	CON_M4ST_S_SM_M-ST-SM	m38[94A3]
J9710	CON_DVI_F32ST_Q2MT_S-M_F-ST-SM	m38[97D5]
JC900	CON_M7ST_SATA_SM_M-ST-SM	m38[38B8]
JC901	CON_F50ST_D2MT_SM_F-ST-SM	m38[38D2]
JD600	CON_RJ45_10ANG_S3MT_TH1_F-ANG-TH	m38[43C6]
JE000	CON_F6ST_S4MT_TH1_F-ST-TH	m38[46C2]
JE001	CON_F6ST_S4MT_TH1_F-ST-TH	m38[46B2]
JE310	CON_F4ST_USB_S3MT_TH_F-ST-TH	m38[47D4]
JE320	CON_F4ST_USB_S3MT_TH_F-ST-TH	m38[47B4]
JE330	CON_F4ST_USB_S3MT_TH_F-ST-TH	m38[47A4]
JE350	CON_M14RT_S2MT_SM_M-RT-SM	m38[47C1]
L1934	IND_0603	m38[19C7]
L1936	IND_0603	m38[19C7]
L1970	IND_1210	m38[19A5]
L1975	IND_0805	m38[19A5]
L2500	IND_SM-3	m38[25B8]
L2507	IND_1206	m38[25A7]
L3301	IND_0402	m38[33D7]
L3302	IND_0402	m38[33D3]
L4200	IND_SM	m38[42D7]
L4201	IND_SM	m38[42B7]
L4300	IND_SM	m38[43D7]
L4409	IND_0402	m38[44D6]
L4610	IND_1206-LF	m38[46D2]
L4620	IND_1206-LF	m38[46B2]
L4690	IND_SM-1	m38[46A6]
L4710	IND_SM	m38[47D6]
L4712	FILTER_4P_2012	m38[47C6]
L4720	IND_SM	m38[47C6]
L4722	FILTER_4P_2012	m38[47B6]
L4730	IND_SM	m38[47B6]
L4732	FILTER_4P_2012	m38[47A6]
L4740	IND_SM	m38[47D2]
L4742	FILTER_4P_2012	m38[47C2]
L4752	FILTER_4P_2012	m38[47B2]
L5300	FILTER_4P_2012	m38[53B3]
L6800	IND_0402	m38[68A5]
L6801	IND_0402	m38[68D6]
L7200	IND_SM-1	m38[72D6]
L7201	IND_0603	m38[72C2]
L7202	IND_0603	m38[72C2]
L7203	IND_0603	m38[72C3]
L7204	IND_0603	m38[72C3]
L7205	IND_0603	m38[72D6]
L7206	IND_0603	m38[72C6]
L7207	IND_0603	m38[72C6]
L7208	IND_0603	m38[72C6]
L7300	IND_SM	m38[73D7]
L7301	IND_SM	m38[73D7]
L7302	IND_SM	m38[73D7]
L7303	IND_SM	m38[73D7]
L7304	IND_SM	m38[73D5]
L7305	IND_SM	m38[73D5]
L7306	IND_SM	m38[73D5]
L7307	IND_SM	m38[73D5]
L7309	IND_SM	m38[73C6]
L7310	IND_SM	m38[73C6]
L7312	IND_SM	m38[73C4]
L7313	IND_SM	m38[73C4]
L7314	IND_SM	m38[73B7]
L7315	IND_SM	m38[73B7]
L7316	IND_SM	m38[73B7]
L7317	IND_SM	m38[73A7]
L7318	IND_SM	m38[73B7]
L7319	IND_SM	m38[73B7]
L7320	IND_SM	m38[73A7]
L7322	IND_SM	m38[73B5]
L7323	IND_SM	m38[73B5]
L7324	IND_SM	m38[73B5]
L7325	IND_SM	m38[73A5]
L7326	IND_SM	m38[73B5]
L7327	IND_SM	m38[73B5]
L7328	IND_SM	m38[73A5]
L7500	IND_SM	m38[75D1]
L7501	IND_SM	m38[75B2]
L7502	IND_TH-VERT-LF	m38[76D8]
L7700	IND_SM1-LF	m38[77C4]
L7750	IND_SM-LF	m38[77B4]
L7800	IND_3P_SM	m38[78B3]
L7900	IND_3P_SM	m38[79C3]
L8000	IND_3P_SM	m38[80C3]
L8100	IND_IHLP	m38[81C3]
L8400	IND_0402	m38[84B7]
L8520	IND_IHLP	m38[85C3]
L8585	IND_4P_2COIL_SDQ1215-0-SM	m38[85A3]
L8715	IND_0402	m38[87A7]
L8725	IND_0402	m38[87A4]
L8910	IND_0402	m38[89D7]
L8915	IND_0402	m38[89D7]
L8960	IND_0402	m38[89D4]
L8965	IND_0402	m38[89D4]
L9010	IND_0402	m38[90D7]
L9015	IND_0402	m38[90D7]
L9060	IND_0402	m38[90D4]
L9065	IND_0402	m38[90D4]
L9120	IND_0402	m38[91B6]
L9125	IND_0402	m38[91B6]
L9130	IND_0402	m38[91B7]
L9135	IND_0402	m38[91A7]
L9140	IND_0402	m38[91A7]
L9300	IND_0402	m38[93C7]
L9305	IND_0402	m38[93C7]
L9310	IND_0402	m38[93C7]
L9315	IND_0402	m38[93C7]
L9320	IND_0402	m38[93B7]
L9325	IND_0402	m38[93B7]
L9330	IND_0402	m38[93B7]
L9345	IND_0402	m38[93B7]
L9400	IND_SM	m38[94C6]
L9700	FILTER_4P_SM	m38[97D7]
L9701	FILTER_4P_SM	m38[97D7]
L9702	FILTER_4P_SM	m38[97C7]
L9703	FILTER_4P_SM	m38[97C7]
L9710	IND_SM-1	m38[97D5]
LED600	LED_2.0X1.25MM-SM	m38[6A7]
LED601	LED_2.0X1.25MM-SM	m38[6A8]
LED602	LED_2.0X1.25MM-SM	m38[6A7]
LED2901	LED_3X2MM-SM	m38[59D6]
LED3800	LED_2.0X1.25MM-SM	m38[38B3]
LED4300	LED_2.0X1.25MM-SM	m38[43D2]
LED4301	LED_2.0X1.25MM-SM	m38[43D2]
LED4302	LED_2.0X1.25MM-SM	m38[43D1]
LED4303	LED_2.0X1.25MM-SM	m38[43D1]
LED7900	LED_2.0X1.25MM-SM	m38[79A4]
LED8000	LED_2.0X1.25MM-SM	m38[80A4]
LED8100	LED_2.0X1.25MM-SM	m38[81A4]
PP5E1	PROBEPOINT_SM	m38[5B8]
PP5E2	PROBEPOINT_SM	m38[5B8]
PP6A0	PROBEPOINT_SM	m38[5A6]
PP6A1	PROBEPOINT_SM	m38[5A6]
PP6A2	PROBEPOINT_SM	m38[5A6]
PP6A3	PROBEPOINT_SM	m38[5A6]
PP6A4	PROBEPOINT_SM	m38[5A6]
PP6A5	PROBEPOINT_SM	m38[5A6]
PP6A6	PROBEPOINT_SM	m38[5A6]
PP6A7	PROBEPOINT_SM	m38[5A6]
PP6A8	PROBEPOINT_SM	m38[5A6]
PP6A9	PROBEPOINT_SM	m38[5A6]
PP6B0	PROBEPOINT_SM	m38[5A6]
PP6B1	PROBEPOINT_SM	m38[5A6]
PP6B2	PROBEPOINT_SM	m38[5A6]
PP6B3	PROBEPOINT_SM	m38[5A6]
PP6B4	PROBEPOINT_SM	m38[5A6]
PP6B5	PROBEPOINT_SM	m38[5A6]
PP6B6	PROBEPOINT_SM	m38[5A6]
PP6B7	PROBEPOINT_SM	m38[5A6]
PP6B8	PROBEPOINT_SM	m38[5A6]
PP6B9	PROBEPOINT_SM	m38[5A6]
PP6C0	PROBEPOINT_SM	m38[5A6]
PP6C1	PROBEPOINT_SM	m38[5A6]
PP6C2	PROBEPOINT_SM	m38[5A6]
PP6C3	PROBEPOINT_SM	m38[5A6]
PP6C4	PROBEPOINT_SM	m38[5C8]
PP6C5	PROBEPOINT_SM	m38[5C8]
PP6C6	PROBEPOINT_SM	m38[5C8]
PP6C7	PROBEPOINT_SM	m38[5C8]
PP6C8	PROBEPOINT_SM	m38[5C8]
PP6D0	PROBEPOINT_SM	m38[5C8]
PP6D1	PROBEPOINT_SM	m38[5C8]
PP6D2	PROBEPOINT_SM	m38[5B8]
PP6D3	PROBEPOINT_SM	m38[5B8]
PP6D4	PROBEPOINT_SM	m38[5B8]
PP6D5	PROBEPOINT_SM	m38[5B8]
PP6D6	PROBEPOINT_SM	m38[5B8]
PP6D7	PROBEPOINT_SM	m38[5B8]
PP6D8	PROBEPOINT_SM	m38[5B8]
PP6D9	PROBEPOINT_SM	m38[5B8]
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PP602	PROBEPOINT_SM	m38[5D8]
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PP616	PROBEPOINT_SM	m38[5D8]
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PP618	PROBEPOINT_SM	m38[5D8]
PP619	PROBEPOINT_SM	m38[5D8]
PP620	PROBEPOINT_SM	m38[5D8]
PP621	PROBEPOINT_SM	m38[5C8]
PP622	PROBEPOINT_SM	m38[5C8]
PP623	PROBEPOINT_SM	m38[5C8]
PP624	PROBEPOINT_SM	m38[5C8]
PP625	PROBEPOINT_SM	m38[5C8]
PP626	PROBEPOINT_SM	m38[5C8]
PP627	PROBEPOINT_SM	m38[5C8]
PP628	PROBEPOINT_SM	m38[5C8]
PP629	PROBEPOINT_SM	m38[5C8]
PP630	PROBEPOINT_SM	m38[5C8]
PP631	PROBEPOINT_SM	m38[5D6]
PP632	PROBEPOINT_SM	m38[5D6]
PP633	PROBEPOINT_SM	m38[5D6]
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PP638	PROBEPOINT_SM	m38[5D6]
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PP652	PROBEPOINT_SM	m38[5C6]
PP653	PROBEPOINT_SM	m38[5C6]
PP654	PROBEPOINT_SM	m38[5C6]
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PP673	PROBEPOINT_SM	m38[5C6]
PP674	PROBEPOINT_SM	m38[5C6]
PP675	PROBEPOINT_SM	m38[5B6]
PP676	PROBEPOINT_SM	m38[5B6]
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PP697	PROBEPOINT_SM	m38[5B6]
PP698	PROBEPOINT_SM	m38[5B6]
PP699	PROBEPOINT_SM	m38[5B6]
PP700	TP_SM-TP50-TOP	m38[5D3]
PP701	TP_SM-TP50-TOP	m38[5D3]
PP702	TP_SM-TP50-TOP	m38[5D3]
PP1200	TP_SM-TP50-TOP	m38[5D3]
PP1201	TP_SM-TP50-TOP	m38[5D3]
PP1202	TP_SM-TP50-TOP	m38[5D3]
PP2800	TP_SM-TP50-TOP	m38[5C3]
PP2801	TP_SM-TP50-TOP	m38[5C3]
PP2802	TP_SM-TP50-TOP	m38[5C3]
PP4100	PROBEPOINT_SM	m38[5D4]
PP4101	PROBEPOINT_SM	m38[5D4]
PP8400	PROBEPOINT_SM	m38[5C5]
PP8401	PROBEPOINT_SM	m38[5C5]
PP8700	PROBEPOINT_SM	m38[5D5]
PP8701	PROBEPOINT_SM	m38[5D5]
PP8702	PROBEPOINT_SM	m38[5D5]
PP8703	PROBEPOINT_SM	m38[5D5]
PP8704	PROBEPOINT_SM	m38[5D5]
PP8705	PROBEPOINT_SM	m38[5D5]
PP8706	PROBEPOINT_SM	m38[5D5]
PP8707	PROBEPOINT_SM	m38[5D5]
PP8708	PROBEPOINT_SM	m38[5D5]
PP8709	PROBEPOINT_SM	m38[5D5]
PP8710	PROBEPOINT_SM	m38[5D5]
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PP8713	PROBEPOINT_SM	m38[5D5]
PP8714	PROBEPOINT_SM	m38[5D5]
PP8715	PROBEPOINT_SM	m38[5D5]
PP8716	PROBEPOINT_SM	m38[5D5]
PP8720	PROBEPOINT_SM	m38[5D5]
PP8721	PROBEPOINT_SM	m38[5D5]
PP8722	PROBEPOINT_SM	m38[5D5]
PP8723	PROBEPOINT_SM	m38[5C5]
PP8724	PROBEPOINT_SM	m38[5C5]
PP8725	PROBEPOINT_SM	m38[5C5]
PP8726	PROBEPOINT_SM	m38[5C5]
PP8727	PROBEPOINT_SM	m38[5C5]
PP8728	PROBEPOINT_SM	m38[5C5]
PP8729	PROBEPOINT_SM	m38[5C5]
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PP8731	PROBEPOINT_SM	m38[5C5]
PP8732	PROBEPOINT_SM	m38[5C5]
PP8733	PROBEPOINT_SM	m38[5C5]
PP8734	PROBEPOINT_SM	m38[5C5]
PP8735	PROBEPOINT_SM	m38[5C5]
PP8736	PROBEPOINT_SM	m38[5C5]
PP8900	PROBEPOINT_SM	m38[5B5]
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PP8903	PROBEPOINT_SM	m38[5B5]
PP8904	PROBEPOINT_SM	m38[5B5]
PP8905	PROBEPOINT_SM	m38[5B5]
PP8906	PROBEPOINT_SM	m38[5B5]
PP8907	PROBEPOINT_SM	m38[5B5]
PP8908	PROBEPOINT_SM	m38[5B5]
PP8909	PROBEPOINT_SM	m38[5B5]
PP8910	PROBEPOINT_SM	m38[5B5]
PP8911	PROBEPOINT_SM	m38[5B5]
PP8912	PROBEPOINT_SM	m38[5B5]
PP8913	PROBEPOINT_SM	m38[5B5]
PP8914	PROBEPOINT_SM	m38[5A5]
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PP8916	PROBEPOINT_SM	m38[5A5]
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PP8930	PROBEPOINT_SM	m38[5A5]
PP8931	PROBEPOINT_SM	m38[5A5]
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PP8936	PROBEPOINT_SM	m38[5A5]
PP9000	PROBEPOINT_SM	m38[5B4]
PP9001	PROBEPOINT_SM	m38[5B4]
PP9002	PROBEPOINT_SM	m38[5B4]
PP9003	PROBEPOINT_SM	m38[5B4]
PP9004	PROBEPOINT_SM	m38[5B4]
PP9005	PROBEPOINT_SM	m38[5B4]
PP9006	PROBEPOINT_SM	m38[5B4]
PP9007	PROBEPOINT_SM	m38[5B4]
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PP9010	PROBEPOINT_SM	m38[5B4]
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PP9015	PROBEPOINT_SM	m38[5A4]
PP9016	PROBEPOINT_SM	m38[5A4]
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PP9022	PROBEPOINT_SM	m38[5A4]
PP9023	PROBEPOINT_SM	m38[5A4]
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PP9031	PROBEPOINT_SM	m38[5A4]
PP9032	PROBEPOINT_SM	m38[5A4]
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PP9034	PROBEPOINT_SM	m38[5A4]
PP9035	PROBEPOINT_SM	m38[5A4]
PP9036	PROBEPOINT_SM	m38[5A4]
Q4200	TRA_2N7002_SOT23-LF	m38[42D2]
Q4201	TRA_PBSS5540Z_SOT223	m38[42C6]
Q4400	TRA_SINGLE_MOSFET_NC-HN_SOT23	m38[44A7]
Q5900	TRA_FDV301N_SOT23-LF	m38[59D7]
Q5901	TRA_2N7002DW_SOT-363	m38[59C7 59C7]
Q5902	TRA_2N7002DW_SOT-363	m38[59B1 59B2]
Q5903	TRA_DUAL_MMDT3904_SOT-363-LF	m38[59A2 59A1]
Q5910	TRA_SINGLE_MOSFET_PC-HN_SOT-23	m38[59A4]
Q5911	TRA_2N7002_SOT23-LF	m38[59A4]
Q6500	TRA_NTHS5443T1_1206A-03-LF	m38[65D4]
Q6502	TRA_2N7002DW_SOT-363	m38[65D8 65D6]
Q6503	TRA_NTHS5443T1_1206A-03-LF	m38[65B4]
Q6505	TRA_2N7002DW_SOT-363	m38[65C8 65B6]
Q6600	TRA_NTHS5443T1_1206A-03-LF	m38[66D4]
Q6602	TRA_2N7002DW_SOT-363	m38[66D8 66C5]
Q7200	TRA_2N7002DW_SOT-363	m38[72B6 72B7]
Q7400	TRA_2N7002DW_SOT-363	m38[74B3 74B3]
Q7401	TRA_2N7002_SOT23-LF	m38[74C3]
Q7402	TRA_2N7002DW_SOT-363	m38[74B2 74B2]
Q7500	TRA_HAT2168H_LFPAK	m38[75D3]
Q7501	TRA_HAT2165H_LFPAK	m38[75D3]
Q7502	TRA_HAT2168H_LFPAK	m38[75C3]
Q7503	TRA_HAT2165H_LFPAK	m38[75B3]
Q7504	TRA_HAT2165H_LFPAK	m38[75D3]
Q7505	TRA_HAT2165H_LFPAK	m38[75B3]
Q7570	TRA_HAT2168H_LFPAK	m38[75D2]
Q7572	TRA_HAT2168H_LFPAK	m38[75C3]
Q7639	TRA_2N7002_SOT23-LF	m38[76A7]
Q7640	TRA_SINGLE_MOSFET_PC-HN_SOT-23	m38[76A6]
Q7641	TRA_FDC796N_SUPERSOT-6	m38[76A5]
Q7642	TRA_FDC796N_SUPERSOT-6	m38[76A4]
Q7701	TRA_SI3446DV_TSOP-LF	m38[77A3]
Q7703	TRA_2N7002DW_SOT-363	m38[77C7 77D7]
Q7799	TRA_2N7002_SOT23-LF	m38[77A6]
Q7800	TRA_NTD60N02R_CASE36-9-LF	m38[78C4]
Q7801	TRA_NTD60N02R_CASE36-9-LF	m38[78B4]
Q7802	TRA_2N7002_SOT23-LF	m38[78B7]
Q7900	TRA_NTD60N02R_CASE36-9-LF	m38[79D4]
Q7901	TRA_NTD60N02R_CASE36-9-LF	m38[79C4]
Q7902	TRA_2N7002_SOT23-LF	m38[79C7]
Q8000	TRA_NTD60N02R_CASE36-9-LF	m38[80D4]
Q8001	TRA_NTD60N02R_CASE36-9-LF	m38[80C4]
Q8003	TRA_2N7002_SOT23-LF	m38[80C7]
Q8102	TRA_NTD60N02R_CASE36-9-LF	m38[81D4]

Q8103	TRA_NTD60N02R_CASE369-LF	m38[81C4]
Q8104	TRA_2N7002_SOT23-LF	m38[81C7]
Q8300	TRA_IRF7413_SO-8	m38[83C4]
Q8301	TRA_IRF7413_SO-8	m38[83B4]
Q8302	TRA_2N7002DW_SOT-363	m38[83B5]
Q8303	TRA_2N7002DW_SOT-363	m38[83C5]
Q8520	TRA_HAT2168H_LFPAK	m38[85D4]
Q8521	TRA_HAT2165H_LFPAK	m38[85C4]
Q8522	TRA_HAT2165H_LFPAK	m38[85C5]
Q8523	TRA_2N7002DW_SOT-363	m38[85B3 85B2]
Q8554	TRA_2N7002_SOT23-LF	m38[85A8]
Q8570	TRA_2N7002_SOT23-LF	m38[85A5]
Q8575	TRA_FDC796N_SUPERSOT-6	m38[85B6]
Q8576	TRA_FDC796N_SUPERSOT-6	m38[85A2]
Q9400	TRA_SI3443DV_TSOP-LF	m38[94C7]
Q9401	TRA_2N7002_SOT23-LF	m38[94C7]
Q9711	TRA_2N7002DW_SOT-363	m38[97D2 97C2]
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R6704	RES_805	m38[67C2]
R6705	RES_805	m38[67C3]
R6798	RES_402	m38[67B6]
R6799	RES_402	m38[67B6]
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R6817	RES_402	m38[68B4]
R6818	RES_805	m38[68B4]
R7208	RES_402	m38[72A4]
R7212	RES_402	m38[72B8]

R7213	RES_402	m38[72B7]
R7214	RES_402	m38[72C5]
R7215	RES_402	m38[72C7]
R7216	RES_402	m38[72C5]
R7217	RES_402	m38[72B5]
R7218	RES_402	m38[72A5]
R7219	RES_402	m38[72B4]
R7302	RES_402	m38[73A3]
R7313	RES_402	m38[73C2]
R7314	RES_402	m38[73C2]
R7400	RES_402	m38[74B4]
R7404	RES_402	m38[74C4]
R7405	RES_402	m38[74D3]
R7407	RES_402	m38[74B4]
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R7409	RES_402	m38[74B4]
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R7411	RES_805	m38[74C2]
R7412	RES_805	m38[74D2]
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R7423	RES_402	m38[74B6]
R7424	RES_402	m38[74B6]
R7425	RES_402	m38[74A5]
R7426	RES_402	m38[74A4]
R7427	RES_402	m38[74A4]
R7429	RES_805	m38[74C2]
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R7431	RES_402	m38[74C2]
R7432	RES_402	m38[74B1]
R7500	RES_402	m38[75C2]
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R7503	RES_1206	m38[75D2]
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R7505	RES_402	m38[75B2]
R7506	RES_603	m38[75B2]
R7507	RES_402	m38[75B1]
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R7523	RES_402	m38[75A5]
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R7594	RES_402	m38[75C7]
R7595	RES_402	m38[75C7]
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R7598	RES_402	m38[76C7]
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R7603	RES_402	m38[76C3]
R7604	RES_402	m38[76C3]
R7605	RES_402	m38[76D4]
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R7669	RES_402	m38[76D4]
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R7701	RES_402	m38[77C5]
R7704	RES_402	m38[77C5]
R7705	RES_402	m38[77C5]
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R7805	RES_402	m38[78B5]
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R8001	RES_402	m38[80C7]
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R8004	RES_402	m38[80C5]
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R8192	RES_402	m38[81C7]
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R8585	RES_603	m38[85A3]
R8586	RES_402	m38[85A3]
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R8598	RES_402	m38[85D2]
R8599	RES_1206	m38[85C4]
R8630	RES_603	m38[86C7]
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R9082	RES_402	m38[90C4]
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R9191	RES_402	m38[91D2]
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R9202	RES_402	m38[92C6]
R9250	RES_402	m38[92C6]
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R9372	RES_402	m38[93C1]
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R9450	RES_402	m38[94C2]
R9470	RES_402	m38[94C7]
R9472	RES_402	m38[94B3]
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R9490	RES_805	m38[94C6]
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R9741	RES_402	m38[97A8]
R9742	RES_402	m38[97A7]
R9750	RES_402	m38[97A3]
R9751	RES_402	m38[97A3]
RP2300	RPAK4P_SM-LF	m38[23D5]
RP3000	RPAK4P_SM-LF	m38[30B4 30C4 30D4 30D4]
RP3001	RPAK4P_SM-LF	m38[30C4 30A4 30A4 30D4]
RP3002	RPAK4P_SM-LF	m38[30A4 30A4 30A4 30D4]
RP3003	RPAK4P_SM-LF	m38[30C4 30C4 30C4 30D4]
RP3004	RPAK4P_SM-LF	m38[30C4 30C4 30D4]
RP3005	RPAK4P_SM-LF	m38[30B4 30A4 30A4 30D4]
RP3006	RPAK4P_SM-LF	m38[30B4 30B4 30A4 30D4]
RP3007	RPAK4P_SM-LF	m38[30C4 30C4 30C4 30C4]
RP3008	RPAK4P_SM-LF	m38[30C4 30C4 30C4 30C4]
RP3009	RPAK4P_SM-LF	m38[30B4 30B4 30C4 30C4]
RP3010	RPAK4P_SM-LF	m38[30B4 30B4 30B4 30B4]
RP3011	RPAK4P_SM-LF	m38[30B4 30A4 30B4 30B4]
RP7200	RPAK4P_SM-LF	m38[72A4]
SDF4700	PCB_STANDOFF	m38[47A2]
SDF4701	PCB_STANDOFF	m38[47A2]
SDF5300	PCB_STANDOFF	m38[53A5]
SDF5301	PCB_STANDOFF	m38[53A5]
SDF9400	PCB_STANDOFF	m38[94B6]
SDF9401	PCB_STANDOFF	m38[94A6]
SDF9402	PCB_STANDOFF	m38[94A6]
SW2600	SWI_TACT_4SM_EVQPH_S M-LF	m38[26C6]
SW5900	SWI_TACT_4SM_EVQPH_S M-LF	m38[59D8]

SW5901	SWI_TACT_4SM_EVQPH_S M-LF	m38[59B8]
U600	74LC125_TSSOP	m38[6A7 6B7 6B7 6C7]
U601	SN74LVC1G04_SOT23-5	m38[6C7]
U1000	ADT7461_MSOP	m38[10D5]
U1200	NB_945GM_BGA	m38[12D5]
U1200	NB_945GM_BGA	m38[13D4]
U1200	NB_945GM_BGA	m38[14D5]
U1200	NB_945GM_BGA	m38[15D3 15D7]
U1200	NB_945GM_BGA	m38[16D2 16C8]
U1200	NB_945GM_BGA	m38[17D5]
U1200	NB_945GM_BGA	m38[18D4 18D7]
U2100	SB_ICH7M_BGA	m38[21D6]
U2100	SB_ICH7M_BGA	m38[22B7 22D3]
U2100	SB_ICH7M_BGA	m38[23D4]
U2100	SB_ICH7M_BGA	m38[24D4 24D7]
U2601	MC74VHC1G08_SOT23-5-LF	m38[26D5]
U2603	SN74LVC1G04_SOT23-5	m38[26A7]
U2698	MC74VHC1G08_SOT23-5-LF	m38[26C4]
U2699	MAX6816_SOT143	m38[26C5]
U3100	LREG_BD3533FVM_MSOP8	m38[31C5]
U3301	CLK_GEN_CY284455_QFN	m38[33C5]
U4101	88E8053_QFN	m38[41D5]
U4102	EEPROM_M24C08_SO8	m38[41A3]
U4400	FW32306_TQFP	m38[44D5]
U4700	SWI_TPS2024_SOI	m38[47C8]
U5800	SMC_H8S2116_BGA	m38[58A8 58C3 58C6 58D6]
U5900	VDET_RN5VD_SOT23-5	m38[59D8]
U5940	VREF_REF3133_SOT23-3	m38[59A4]
U5999	COMPARATOR_LMV339_TSSOP	m38[59A6 59A6 59A8 59A8]
U6100	MAX6695_UMAX	m38[61C4]
U6301	FLASH_SST25VF016B_SOI	m38[63D3]
U6700	TPM_TSSOP	m38[67C5]
U6800	AUDIO_STAC9220_LQFP	m38[68D5]
U7200	MAX9714_QFN-LF	m38[72C5]
U7500	ISL6262_QFN	m38[75C6]
U7501	INA138_SOT23-5-LF	m38[76D7]
U7600	OPAMP_LMV2011_SOT23-5	m38[76D3]
U7700	LTC3411_MSOP-LF	m38[77D5]
U7710	MC74VHC1G08_SOT23-5-LF	m38[77C7]
U7711	MC74VHC1G08_SOT23-5-LF	m38[77B7]
U7712	MC74VHC1G08_SOT23-5-LF	m38[77B7]
U7750	LTC3412_TSSOP-LF	m38[77B5]
U7800	ISL6549_QFN	m38[78C6]
U7900	ISL6549_QFN	m38[79D6]
U7901	COMPARATOR_LM339A_SO I-LF	m38[79A5]
U7901	COMPARATOR_LM339A_SO I-LF	m38[80A4]
U7901	COMPARATOR_LM339A_SO I-LF	m38[81A5]
U7910	COMPARATOR_LM339A_SO I-LF	m38[79A3 79B3]
U7910	COMPARATOR_LM339A_SO I-LF	m38[80B2]
U7910	COMPARATOR_LM339A_SO I-LF	m38[81B3]
U8000	ISL6549_QFN	m38[80D6]
U8100	ISL6549_QFN	m38[81D6]
U8400	ATI_M56P_BGA	m38[84C8 84D4]
U8400	ATI_M56P_BGA	m38[86D4]
U8400	ATI_M56P_BGA	m38[87D2 87D6]
U8400	ATI_M56P_BGA	m38[91D4]
U8400	ATI_M56P_BGA	m38[93C4]
U8500	ISL6269_QFN	m38[85D6]
U8550	FAN2558_SOT23-6-LF	m38[85B7]
U8560	74LVC1G125LF_SOT23-5	m38[85A6]
U8580	LT3483_TSOT23-6	m38[85A4]
U8595	OPAMP_LMV2011_SOT23-5	m38[85D2]
U8900	SGRAM_16MX32_GDDR3_1 36H_FBGA	m38[89D6 89B6]
U8950	SGRAM_16MX32_GDDR3_1 36H_FBGA	m38[89D3 89B3]
U9000	SGRAM_16MX32_GDDR3_1 36H_FBGA	m38[90D6 90B6]
U9050	SGRAM_16MX32_GDDR3_1 36H_FBGA	m38[90D3 90B3]
U9470	MC74VHC1G08_SOT23-5-LF	m38[94B2]
U9750	74AHC1G32_SM-LF	m38[97A4]
U9751	74AHC1G32_SM-LF	m38[97A4]
VR6800	LREG_TPS79501_SOT223-6	m38[68A4]
XC7200	MTGHOLE	m38[72B3]
XW601	SHORT_SM	m38[6C2]
XW602	SHORT_SM	m38[6C2]
XW604	SHORT_SM	m38[6A5]
XW605	SHORT_SM	m38[6A5]
XW5800	SHORT_SM	m38[58B3]
XW5900	SHORT_SM	m38[59B1]
XW6800	SHORT_SM	m38[74A4]
XW7201	SHORT_SM	m38[72B2]
XW7300	SHORT_SM	m38[73C5]
XW7400	SHORT_SM	m38[74D2]
XW7500	SHORT_SM	m38[75A6]
XW7501	SHORT_SM	m38[75B2]
XW7502	SHORT_SM	m38[75B1]
XW7503	SHORT_SM	m38[75D2]
XW7504	SHORT_SM	m38[75D1]
XW7598	SHORT_SM	m38[76D7]
XW7700	SHORT_SM	m38[77C4]
XW7750	SHORT_SM	m38[77A5]
XW7800	SHORT_SM	m38[78B6]
XW7900	SHORT_SM	m38[79C6]
XW8000	SHORT_SM	m38[80C6]
XW8100	SHORT_SM	m38[81C6]
XW8500	SHORT_SM	m38[85C6]
XW8715	SHORT_SM	m38[87A7]
XW8725	SHORT_SM	m38[87A4]
XW9135	SHORT_SM	m38[91A4]
XW9140	SHORT_SM	m38[91A4]
XW9300	SHORT_SM	m38[93C7]
XW9305	SHORT_SM	m38[93C7]
XW9310	SHORT_SM	m38[93C7]

XW9314	SHORT_SM	m38[93C7]
XW9320	SHORT_SM	m38[93B7]
XW9324	SHORT_SM	m38[93B7]
XW9330	SHORT_SM	m38[93B7]
XW9345	SHORT_SM	m38[93A7]
Y2600	CRYSTAL_4PIN_SM-LF	m38[26D8]
Y3301	CRYSTAL_5X3.2-SM	m38[33C7]
Y4101	CRYSTAL_4PIN_SM-3	m38[41B5]
Y4400	CRYSTAL_HC49-USMD	m38[44D2]
Y5800	CRYSTAL_SM-3	m38[59B8]
Y6700	CRYSTAL_4PIN_SM-LF	m38[59B7]
ZH500	HOLE_VIA	m38[5C1]
ZH501	HOLE_VIA	m38[5C1]
ZH502	HOLE_VIA	m38[5C1]
ZH503	HOLE_VIA	m38[5C1]
ZH504	HOLE_VIA	m38[5B1]
ZH505	HOLE_VIA	m38[5B1]
ZH506	HOLE_VIA	m38[5B1]
ZH507	HOLE_VIA	m38[5B1]
ZH508	HOLE_VIA	m38[5B1]
ZH509	HOLE_VIA	m38[5B1]
ZH510	HOLE_VIA	m38[5C1]
ZH511	HOLE_VIA	m38[5C1]
ZH512	HOLE_VIA	m38[5C1]
ZH513	HOLE_VIA	m38[5C1]
ZH514	HOLE_VIA	m38[5B1]
ZH515	HOLE_VIA	m38[5B1]
ZH516	HOLE_VIA	m38[5B1]
ZH517	HOLE_VIA	m38[5B1]
ZH518	HOLE_VIA	m38[5B1]
ZH519	HOLE_VIA	m38[5B1]
ZH520	HOLE_VIA	m38[5C1]
ZH521	HOLE_VIA	m38[5C1]
ZH522	HOLE_VIA	m38[5C1]
ZH523	HOLE_VIA	m38[5C1]
ZH524	HOLE_VIA	m38[5B1]
ZH525	HOLE_VIA	m38[5B1]
ZH526	HOLE_VIA	m38[5B1]
ZH527	HOLE_VIA	m38[5B1]
ZH528	HOLE_VIA	m38[5B1]
ZH529	HOLE_VIA	m38[5B1]
ZH601	MTGHOLE	m38[6A3]
ZH602	MTGHOLE	m38[6A3]
ZH603	MTGHOLE	m38[6A3]
ZH604	MTGHOLE	m38[6B3]
ZH606	MTGHOLE	m38[6A1]
ZH607	MTGHOLE	m38[9D4]
ZH608	MTGHOLE	m38[9D3]
ZH609	MTGHOLE	m38[9D2]
ZH610	MTGHOLE	m38[9D2]