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.

M60 - PVT

08/01/06

REV	ZONE	ECN	DESCRIPTION OF CHANGE	CK APPD DATE	ENG APPD DATE
D		452633	PRODUCTION RELEASED	08/01/06	06/22/04

DIMENSIONS ARE IN MILLIMETERS
XX ±
X.XX ±
X.XXX ±
ANGLES °
DO NOT SCALE DRAWING
THIRD ANGLE PROJECTION

METRIC

DRAFTER		DESIGN CK	
ENG APPD		MFG APPD	
QA APPD		DESIGNER	
RELEASE		SCALE	NONE

MATERIAL/FINISH NOTED AS APPLICABLE

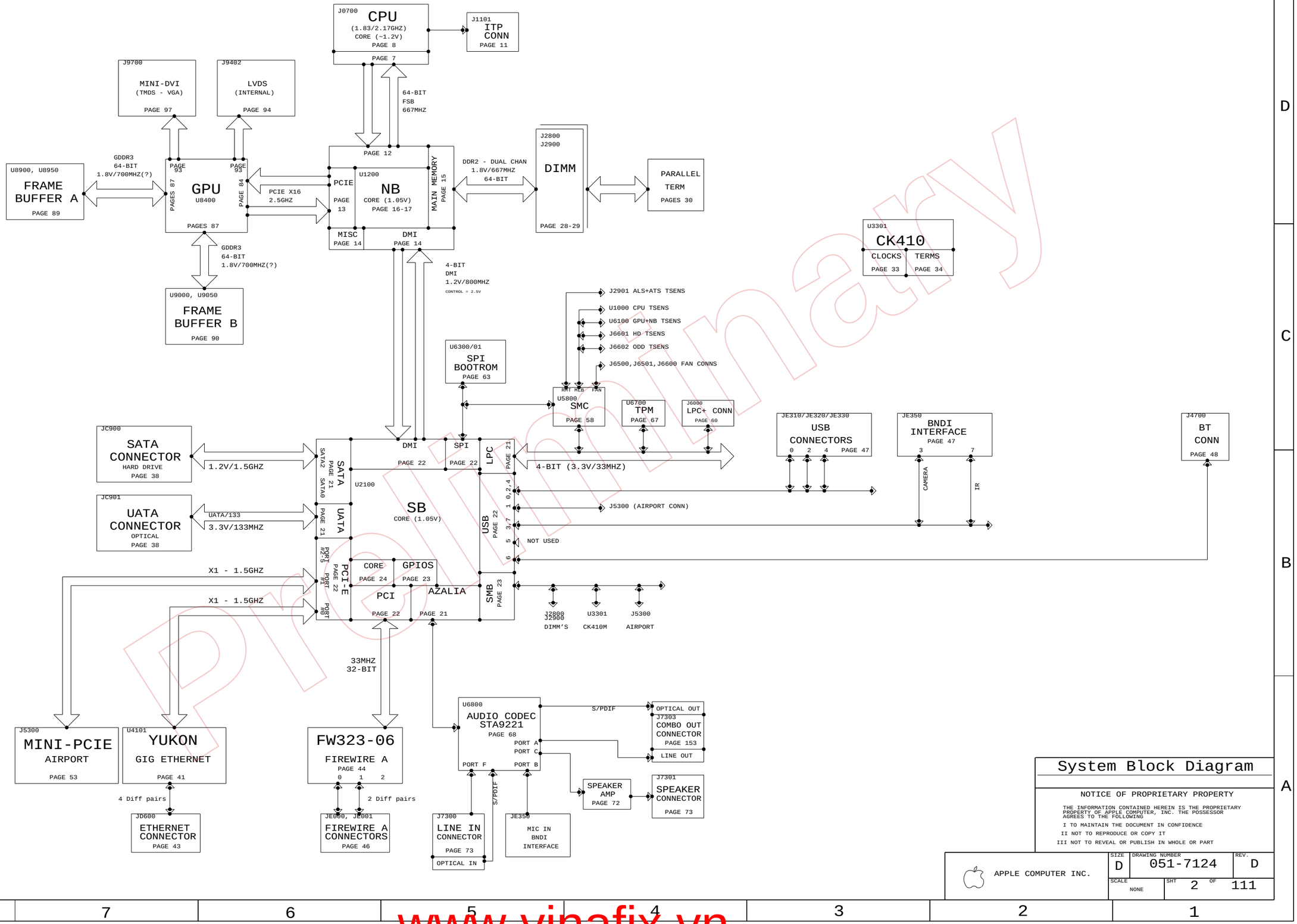
SIZE D

Apple Computer Inc.

TITLE
SCH,MLB,M60

DRAWING NUMBER 051-7124 REV. D

SHT 1 OF 111



System Block Diagram

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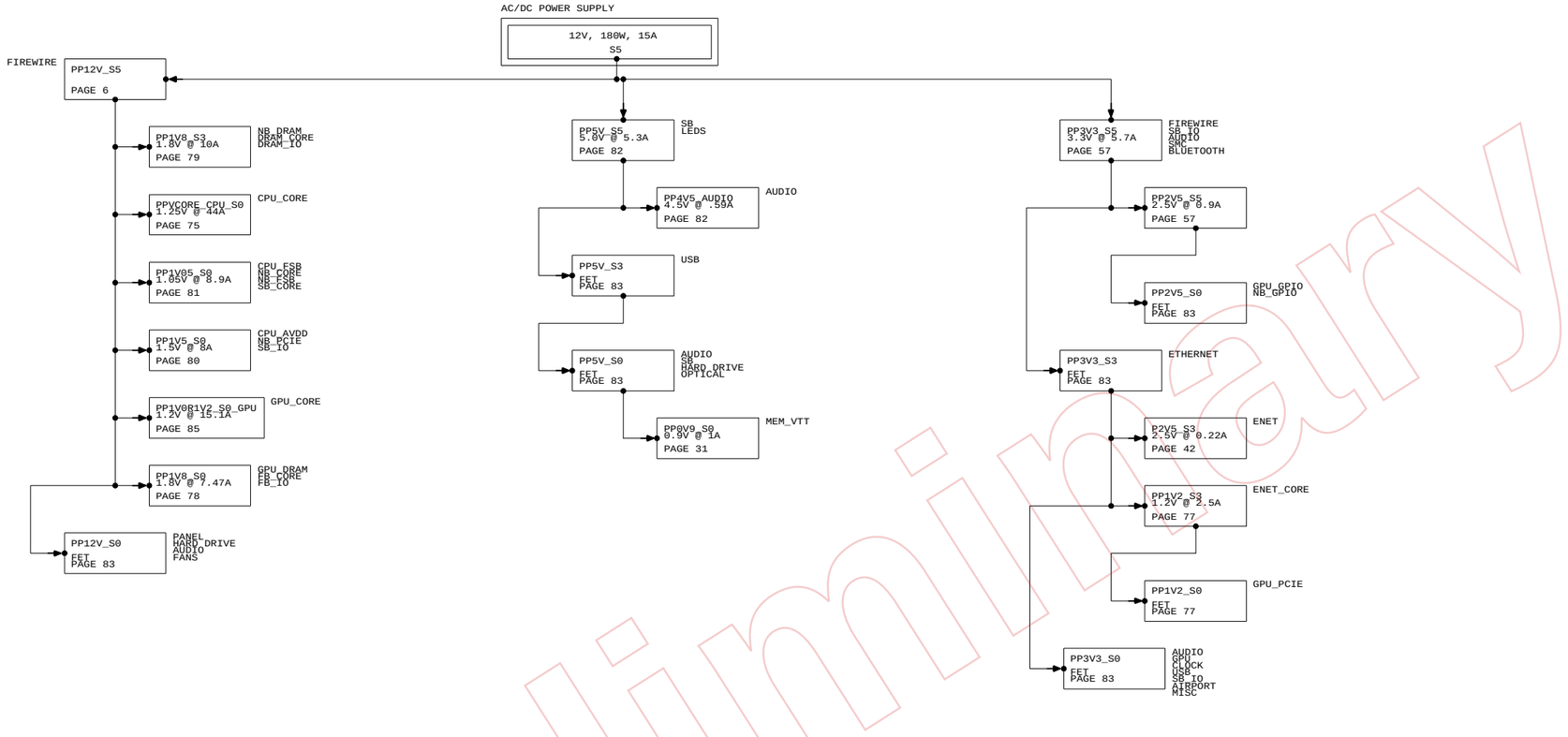
APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 2 OF 111	



Power Block Diagram

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 3 OF 111	

COMMON

	PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
	511S0025	1	IC,CPU-SKT,479BGA	J0700	CRITICAL	
	338S0328	1	IC,945PM,NORTHBRIDGE	U1200	CRITICAL	
	343S0385	1	IC,SB,652BGA	U2100	CRITICAL	
	338S0345	1	IC,ATI,M56D,GRAFIXCTLR,880BGA,LF	U8400	CRITICAL	
	359S0101	1	IC,CY28445-5,CLK GEN,68PIN QFN	U3301	CRITICAL	
	338S0270	1	IC,88E8053,GIGABIT ENET XCVR,64P QFN,NO	U4101	CRITICAL	
(335S0382)	341S1797	1	IC,ENET LAN ROM	U4102	CRITICAL	
	338S0279	1	IC,FW32306,1394A LINK,TQFP	U4400	CRITICAL	
	341S1789	1	IC,TPM,TSSOP,28P	U6700	CRITICAL	LEMENU
UNSCREENED P/N 353S1235	353S1465	1	IC,CPU VREG,IMVP,TWO PHASE	U7500	CRITICAL	
	152S0138	2	IND,PWR,SMLD,3.3UH,20%,6A,30MOHM,LF,SMD	L5703,L8203	CRITICAL	
	128S0078	2	CAP,EL,AL,330UF,20%,16V,10X12.7MM,SMD,LF	C7517,C7518	CRITICAL	
	825-6447	1	MLB LABEL,48.0X4.8	X14	CRITICAL	
	155S0289	7	EMI CHOKE	FLE011,FLE021,FL4610,FL4620,L4712,L4722,L4732	CRITICAL	

	PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
	051-7124	1	PCB,SCHEM,MLB,M60	SCH1		20_INCH_LCD
	820-2031	1	PCB,FAB,MLB,M60	MLB1		20_INCH_LCD
(341S1904 - DEV) (341S1905 - PVT) (335S0384 - BLNK)	341T0036	1	EFI ROM,M60	U6301	CRITICAL	20_INCH_LCD
(341S1903 - PROG) (338S0274 - BLNK)	341T0035	1	IC,SMC,M60	U5800	CRITICAL	20_INCH_LCD
	338S0315	1	IC,ATI,M56LP,GRAFIX CTLR,880BGA,LF	U8400	CRITICAL	GPU_B26_LP
	114S0264	1	3.01K,1%,1/16W,402,MF-LF	R8522		GPU_VCORE_1P2V
	337S3390	1	2.16GHZ MEROM	CPU	CRITICAL	2P16_CPU
	337S3392	1	2.33GHZ MEROM	CPU	CRITICAL	2P33_CPU

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

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
333S0350	4	IC,SGRAM,GDDR3,16MX32,700MHZ,136FBGA	U8900,U8950,U9000,U9050	CRITICAL	ATI_FB_256M_SAMSUNG
333S0351	4	IC,SGRAM,GDDR3,16MX32,700MHZ,136FBGA	U8900,U8950,U9000,U9050	CRITICAL	ATI_FB_256M_HYNIX
333S0377	4	IC,SGRAM,GDDR3,16MX32,600MHZ,136FBGA	U8900,U8950,U9000,U9050	CRITICAL	ATI_FB_256M_INFINEON

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
126S0086	126S0078		C940,C1900,C1901,C1968	SANYO W6CE330FS 330UF 6.3V LF
128S0080	128S0078		C7517,C7518	SANYO 16SVP330M 330UF 16V SMD LF
124-0338	124-0333			CAP,AL,EL,680UF,16V,RAD,10X12.5MM
138S0580	138S0552			22UF 0805
124-0361	124-0339		C7807	SANYO
353S1321	353S1105		U7910	LM339
338S0344	338S0345		U8400	M56 B26 P - DIFF P/N
353S1461	353S1465		U7500	CPU REGULATOR - ISL9504
378S0141	378S0140		LED601,LED602,LED603	LED
138S0598	138S0512			SAMSUNG

Table Items

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D

SCALE	SHT	OF
NONE	4	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

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 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

PLACE NEAR U9000

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

PLACE NEAR U9050

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

PLACE NEAR R1210 AND R1211

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

PLACE NEAR R0705 AND R0706

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

PLACE NEAR R2800 AND R2801

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

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

77 76 66 65 59 57 26 6	PP3V3_S5		FUNC_TEST=TRUE
83 82 81 80 79 59 6	PP5V_S5		FUNC_TEST=TRUE
83 82 81 80 79 78 77 57 6	PP12V_S5		FUNC_TEST=TRUE
79 6	PP1V8_S3		FUNC_TEST=TRUE
76 75 6	PPVCORE_CPU		FUNC_TEST=TRUE
26 25 24 21	PP3V3_S5_S8_RTC		FUNC_TEST=TRUE
	8 TESTPOINTS		FUNC_TEST=TRUE

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

MISC GROUND VIAS

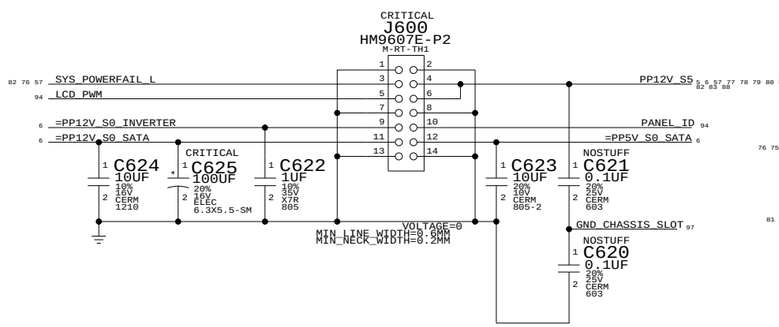
ZH500	HOLE-VIA	ZH510	HOLE-VIA
ZH501	HOLE-VIA	ZH511	HOLE-VIA
ZH502	HOLE-VIA	ZH512	HOLE-VIA
ZH503	HOLE-VIA	ZH513	HOLE-VIA
ZH504	HOLE-VIA	ZH514	HOLE-VIA
ZH505	HOLE-VIA	ZH515	HOLE-VIA
ZH506	HOLE-VIA	ZH516	HOLE-VIA
ZH507	HOLE-VIA	ZH517	HOLE-VIA
ZH508	HOLE-VIA	ZH518	HOLE-VIA
ZH509	HOLE-VIA	ZH519	HOLE-VIA

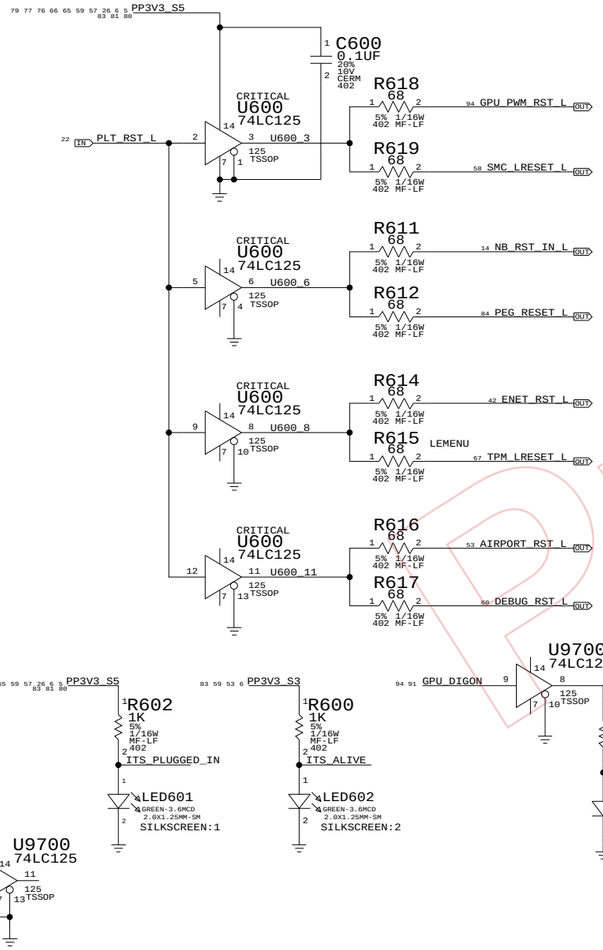
ZH520	HOLE-VIA	
ZH521	HOLE-VIA	
ZH522	HOLE-VIA	
ZH523	HOLE-VIA	
ZH524	HOLE-VIA	
ZH525	HOLE-VIA	
ZH526	HOLE-VIA	
ZH527	HOLE-VIA	
ZH528	HOLE-VIA	
ZH529	HOLE-VIA	

FUNC TEST 1 OF 2

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D
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
- =PP0V9_S0_MEM_TERM

PPVCORE_CPU — MAKE_BASE=TRUE, VOLTAGE=1.25V, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.15MM
- =PPVCORE_S0_CPU

PP1V05_S0 — MAKE_BASE=TRUE, VOLTAGE=1.05V, MIN_LINE_WIDTH=0.3MM, MIN_NECK_WIDTH=0.15MM
- =PPVCORE_S0_NB
- =PP1V05_S0_CPU
- =PP1V05_S0_FSB_NB
- =PP1V05_S0_NB_VTT
- =PP1V05_S0_NB
- =PP1V05_S0_SB_CPU_IO
- =PPVCORE_S0_SB

PP1V5_S0 — MAKE_BASE=TRUE, VOLTAGE=1.5V, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.15MM
- =PP1V5_S0_CPU
- =PP1V5_S0_NB_PCIE
- =PP1V5_S0_NB_VCCAUX
- =PP1V5_S0_NB_VCCD_HMPLL
- =PP1V5_S0_NB_VCCAUX
- =PP1V5_S0_NB_PLL
- =PP1V5_S0_NB
- =PP1V5_S0_NB_TVDAC
- =PP1V5_S0_NB_3GPLL
- =PP1V5_S0_SB_VCC1_5_A_ARX
- =PP1V5_S0_SB_VCCSATAPLL
- =PP1V5_S0_SB_VCC1_5_A_ATX
- =PP1V5_S0_SB_VCCUSBPLL
- =PP1V5_S0_SB_VCC1_5_A_USB_CORE
- =PP1V5_S0_SB_VCC1_5_A
- =PP1V5_S0_SB
- =PP1V5_S0_AIRPORT

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

PP3V3_S0 — MAKE_BASE=TRUE, VOLTAGE=3.3V, MIN_LINE_WIDTH=0.30MM, MIN_NECK_WIDTH=0.20MM
- =PP3V3_S0_NB_VCC_HV
- =PP3V3_S0_NB_TVDAC
- =PP3V3_S0_SB
- =PP3V3_S0_SB_GPIO
- =PP3V3_S0_SB_VCC3_3
- =PP3V3_S0_SB_VCC3_3_PCI
- =PP3V3_S0_SB_VCC3_3_IDE
- =PP3V3_S0_SB_PCI
- =PP3V3_S0_SB_PM
- =PP3V3_S0_PATA
- =PP3V3_S0_FAN
- =PP3V3_S0_HD_TSENS
- =PP3V3_S0_ODD_TSENS
- =PP3V3_S0_SB_3V3_1V5_VCCHDA
- =PP3V3_S0_TPM
- =PPSPD_S0_MEM
- =PP3V3_S0_CK410
- =PP3V3_S0_IMVP
- =PP3V3_S0_AUDIO
- =PP3V3_S0_PCI
- =PP3V3_S0_SB_VCCLAN3_3
- =PP3V3_S0_AIRPORT
- =PP3V3_S0_NB

PP4V5_S0_AUDIO_ANALOG — MAKE_BASE=TRUE, VOLTAGE=5V, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.25MM
- =PP4V5_S0_AUDIO_ANALOG

PP5V_S0 — MAKE_BASE=TRUE, VOLTAGE=5V, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.15MM
- =PP5V_S0_SB
- =PP5V_S0_PATA
- =PP5V_S0_DEBUG
- =PP5V_S0_SATA

PP12V_S0 — MAKE_BASE=TRUE, VOLTAGE=12V, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.15MM
- =PP12V_S0_FAN
- XW605 SM OMIT — PP12V_S0_AUDIO_SPKRAMP (MAKE_BASE=TRUE) → =PP12V_S0_AUDIO_SPKRAMP
- =PP12V_S0_INVERTER
- =PP12V_S0_SATA

"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

PP1V8_S3 — MAKE_BASE=TRUE, VOLTAGE=1.8V, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.2MM
- =PP1V8_S3_MEM_NB
- =PP1V8_S3_MEM_NB
- =PP1V8_S3_MEM
- =PP1V8_S0_MEMVTT

PP3V3_S3 — MAKE_BASE=TRUE, VOLTAGE=3.3V, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.25MM
- =PP3V3_S3_ENET
- =PP3V3_S3_TPM
- =PP3V3_S3_1V2REG
- =PP3V3_S3_BT
- =PP3V3_S3_VGASYNC

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

"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
- =PP3V3_S5_SB_USB
- =PP3V3_S5_SB_PM
- =PP3V3_S5_SB_VCCSUS3_3
- =PP3V3_S5_SB_VCCSUS3_3_USB
- =PP3V3_S5_SB_3V3_1V5_VCCSUSHDA
- =PP3V3_S5_SB_IO
- =PP3V3_S5_FW
- =PP3V3_S5_SMC
- =PP3V3_S5_2V5_LDO
- =PP3V3_S5_DEBUG
- =PP3V3_S5_ROM

PP5V_S5 — MAKE_BASE=TRUE, VOLTAGE=5V, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.2MM
- =PP5V_S5_SB
- =PP5V_S5_AUDIO_LDO

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

GND RAILS

XW602 SM NOSTUFF — GND_AUDIO_SPKRAMP

CHASSIS GND

R603 0 5% 1/10W MF-LF 402 NOSTUFF

GND_CHASSIS_IO_LEFT — MAKE_BASE=TRUE, VOLTAGE=0, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.2MM
- GND_CHASSIS_AUDIO_EXTERNAL
- GND_CHASSIS_USB

GND_CHASSIS_IO_RIGHT — MAKE_BASE=TRUE, VOLTAGE=0, MIN_LINE_WIDTH=0.6MM, MIN_NECK_WIDTH=0.2MM
- GND_CHASSIS_FIREWIRE
- GND_CHASSIS_VGA
- GND_CHASSIS_RJ45

GND_CHASSIS_AUDIO_INTERNAL
- ZH606 160R138 OMIT
- GND_CHASSIS_BNDI

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

ZH701P1 — ZH601 4P25R3P5 OMIT
ZH702P1 — ZH602 4P25R3P5 OMIT
ZH703P1 — ZH603 4P25R3P5 OMIT

C601 0.01UF 20% 16V CERM 402 NOSTUFF
C602 0.01UF 20% 16V CERM 402 NOSTUFF
C603 0.01UF 20% 16V CERM 402 NOSTUFF

Power Conn / Alias

APPLE COMPUTER INC.

SIZE D | DRAWING NUMBER 051-7124 | REV. D

SCALE NONE | SHT 6 OF 111

OMIT

J0700
YONAH-SKT
CPU
BGA
(1 OF 4)

ADDR GROUP0

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

ADDR GROUP1

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

REQ

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

CONTROL

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

XDP/ITP SIGNALS

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

NOTE: DUMMY PIN
PIN ACTUALLY DRIVEN BY ITP

THERM

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

HCLK

BCLK0	A22	FSB_CLK_CPU_P
BCLK1	A21	FSB_CLK_CPU_N

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

RESERVED

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

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

=PP1V05_S0_CPU

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

PLACE TESTPOINT ON
FSB_IERR# WITH A GND
0.1" AWAY

CPU SCH AND PCB
SYMBOL NEED TO CHECK

R0701 54.9 1% 1/16W MF-LF 402
R0703 54.9 1% 1/16W MF-LF 402

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

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

CPU_PROCHOT_L TO SMC
AND CPU VR TO INFORM
CPU IS HOT

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

=PP1V05_S0_CPU

R0720 54.9 1% 1/16W MF-LF 402 — XDP_TMS
R0721 54.9 1% 1/16W MF-LF 402 — XDP_TDI
R0722 54.9 1% 1/16W MF-LF 402 — XDP_TCK

OMIT

J0700
YONAH-SKT
CPU
BGA
(2 OF 4)

DATA GRP0

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

DATA GRP1

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

DATA GRP2

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

DATA GRP3

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

MISC

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

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

R0716 27.4 1% 402
R0717 54.9 1% 402
R0718 27.4 1% 402
R0719 54.9 1% 402

=PP1V05_S0_CPU

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

CPU_GTLREF

R0706 2.0K 1% 1/16W MF-LF 402
LAYOUT NOTE: 0.5" MAX LENGTH

CPU_TEST1
CPU_TEST2

CPU_BSEL<0>
CPU_BSEL<1>
CPU_BSEL<2>

NOSTUFF R0730 0 402

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

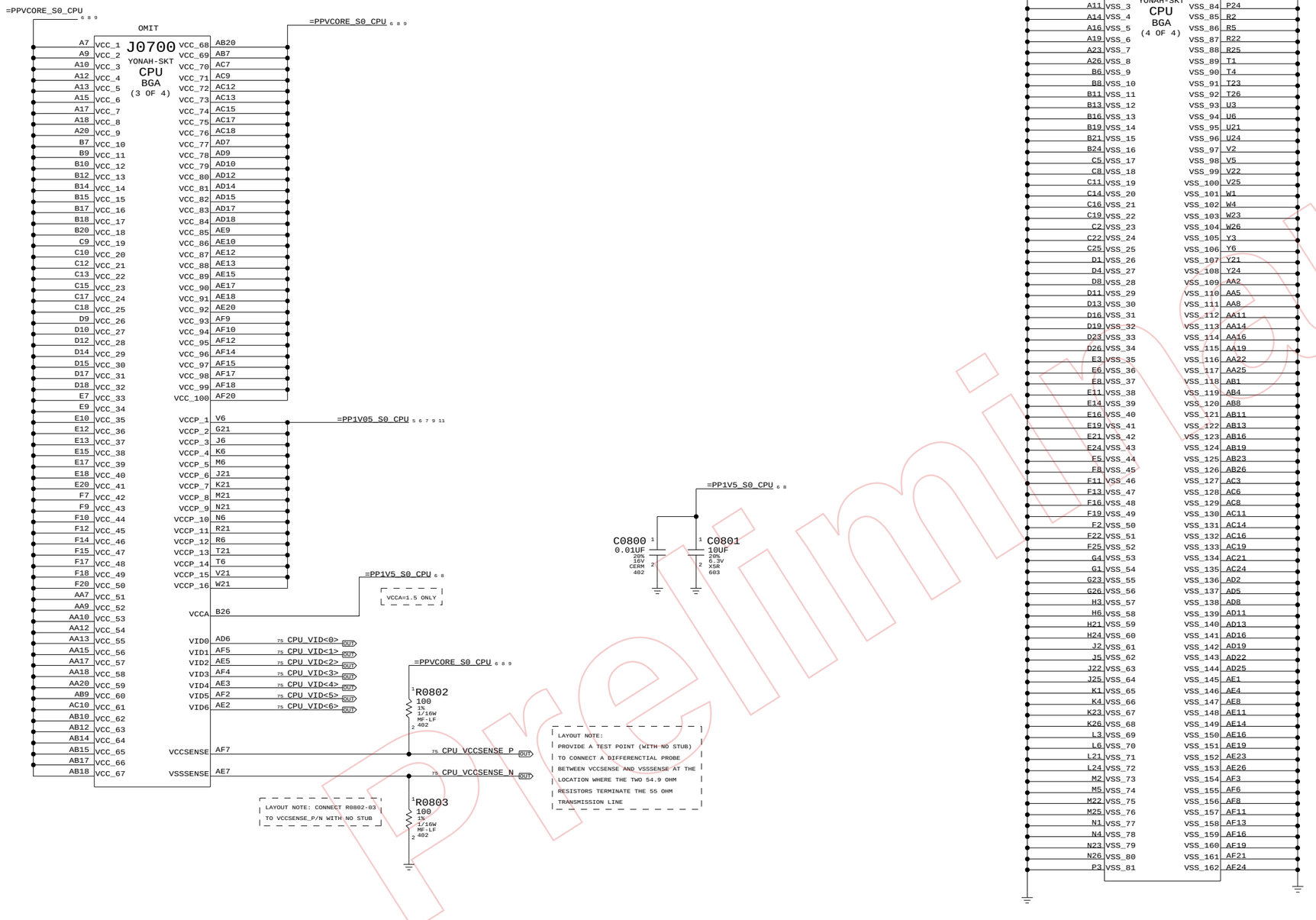
NOSTUFF R0712 1K 5% 1/16W MF-LF 402

CPU 1 OF 2-FSB

SYNC_MASTER=MASTER SYNC_DATE=05/03/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 7 OF 111	



CPU 2 OF 2-PWR/GND

SYNC_MASTER=MASTER SYNC_DATE=05/03/2005

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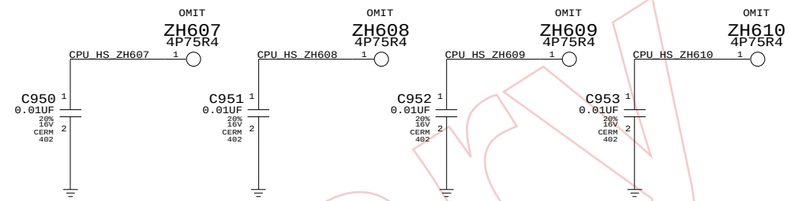
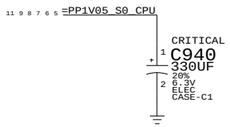
D	051-7124	D

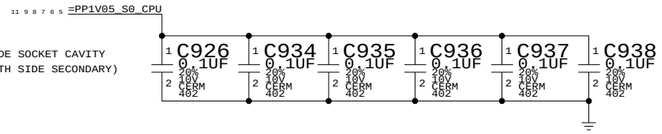
SCALE	SHT	OF
NONE	8	111

CPU HEATSINK MOUNTING HOLES

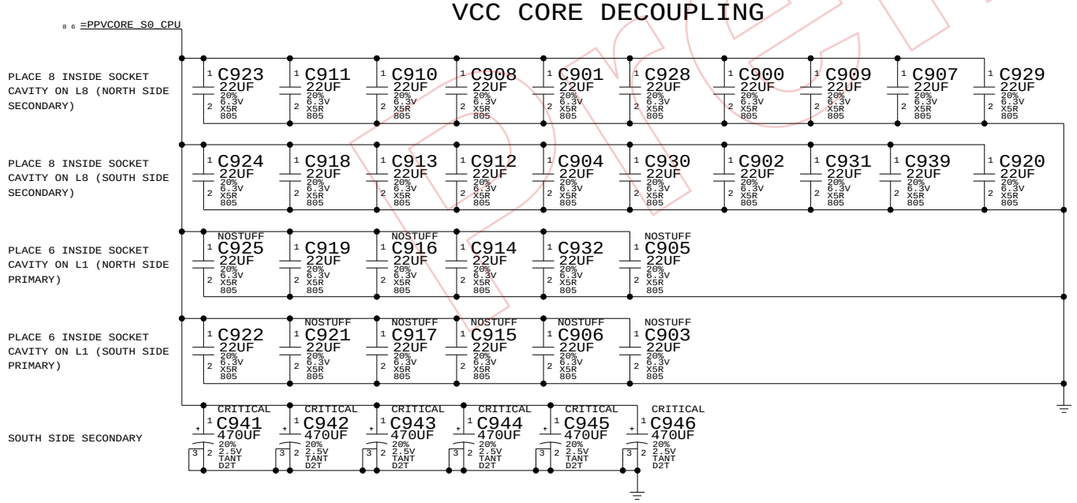




VCCP CORE DECOUPLING



VCC CORE DECOUPLING



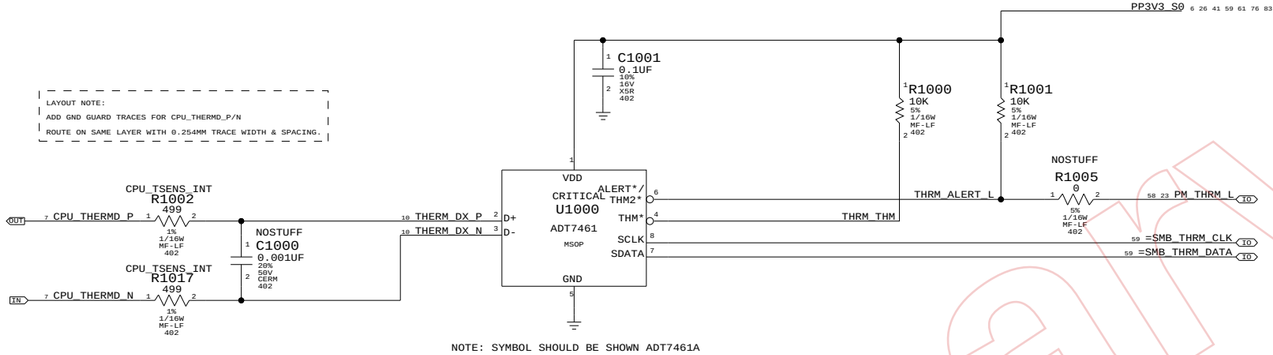
CPU DECAPS & VID<>

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 9 OF 111	

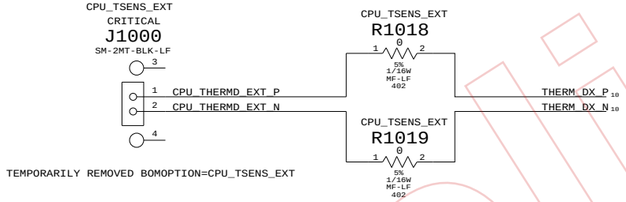
CPU THERMAL SENSOR

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



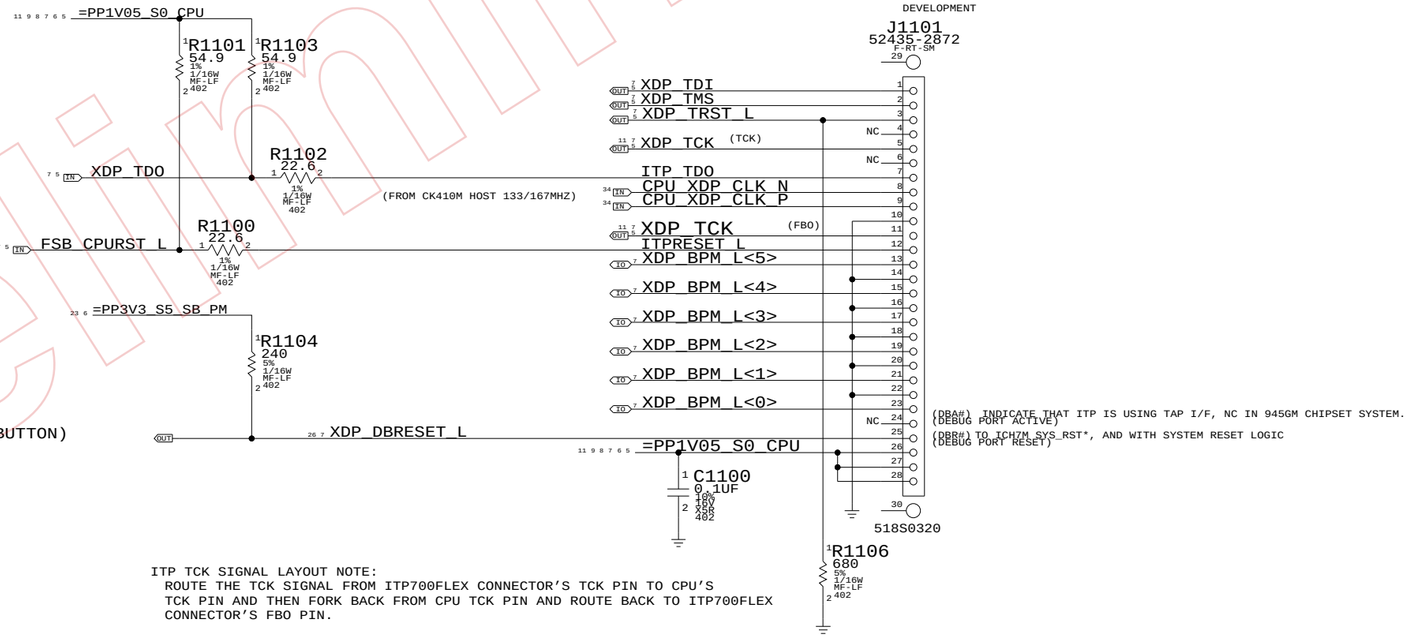
TEMPORARILY REMOVED BOMOPTION=CPU_TSENS_EXT

CPU TEMP SENSOR

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D
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.

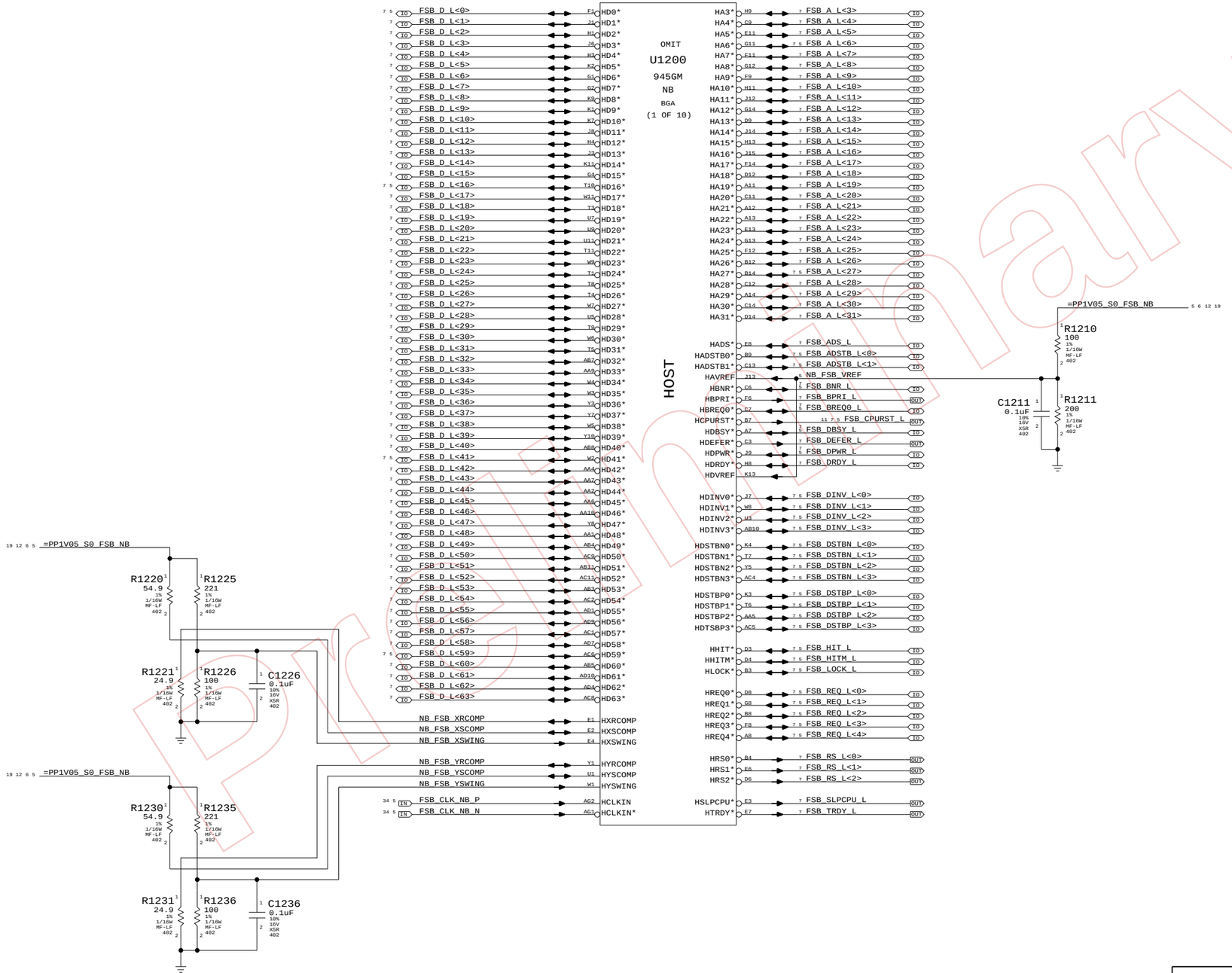
CPU ITP700FLEX DEBUG

SYNC_MASTER=MASTER SYNC_DATE=5/23/05

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D

SCALE	SHT	OF
NONE	11	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

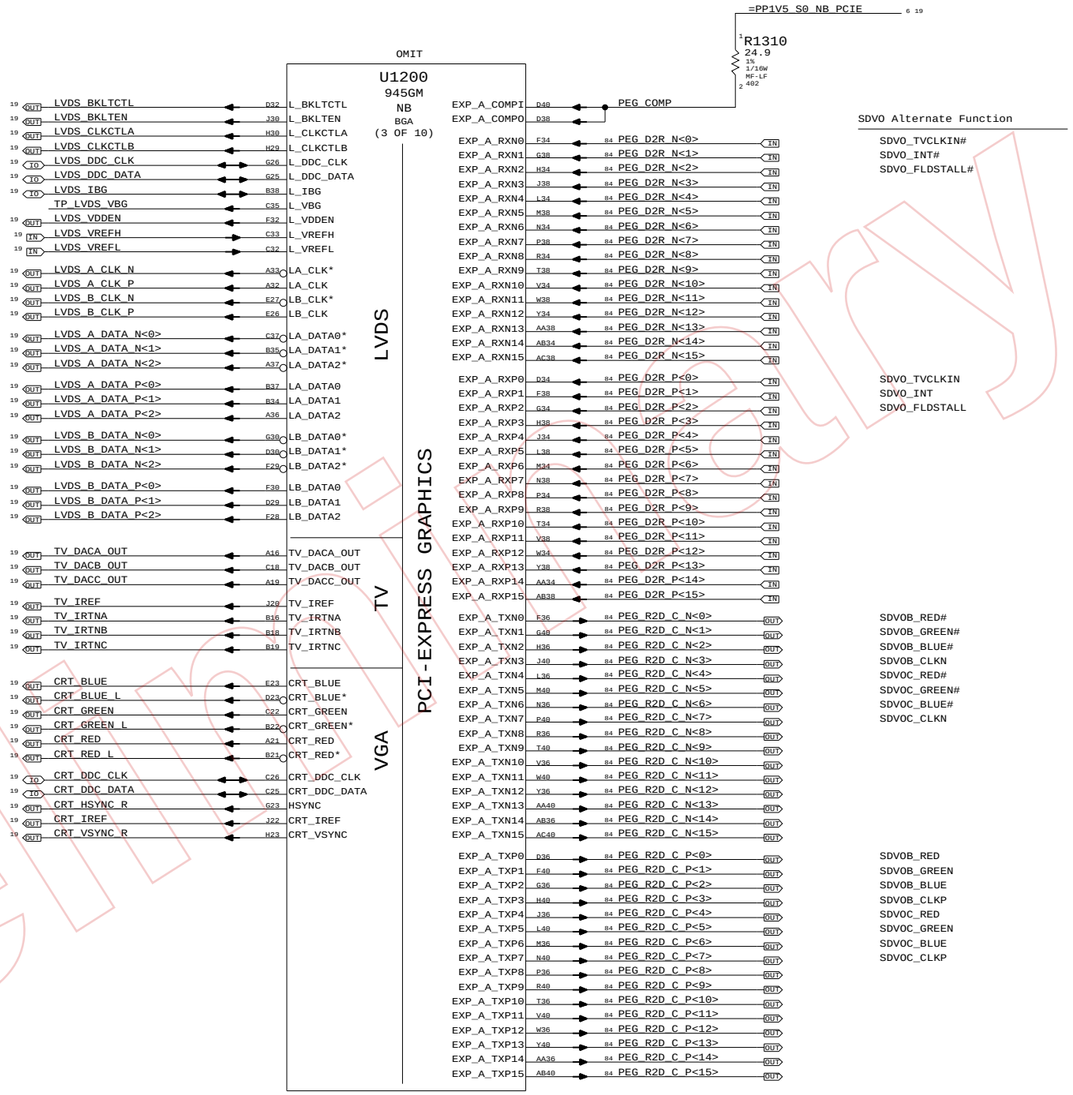
Unused DAC outputs must remain powered, but can omit filtering components. Unused DAC outputs should connect to GND through 75-ohm resistors.

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.

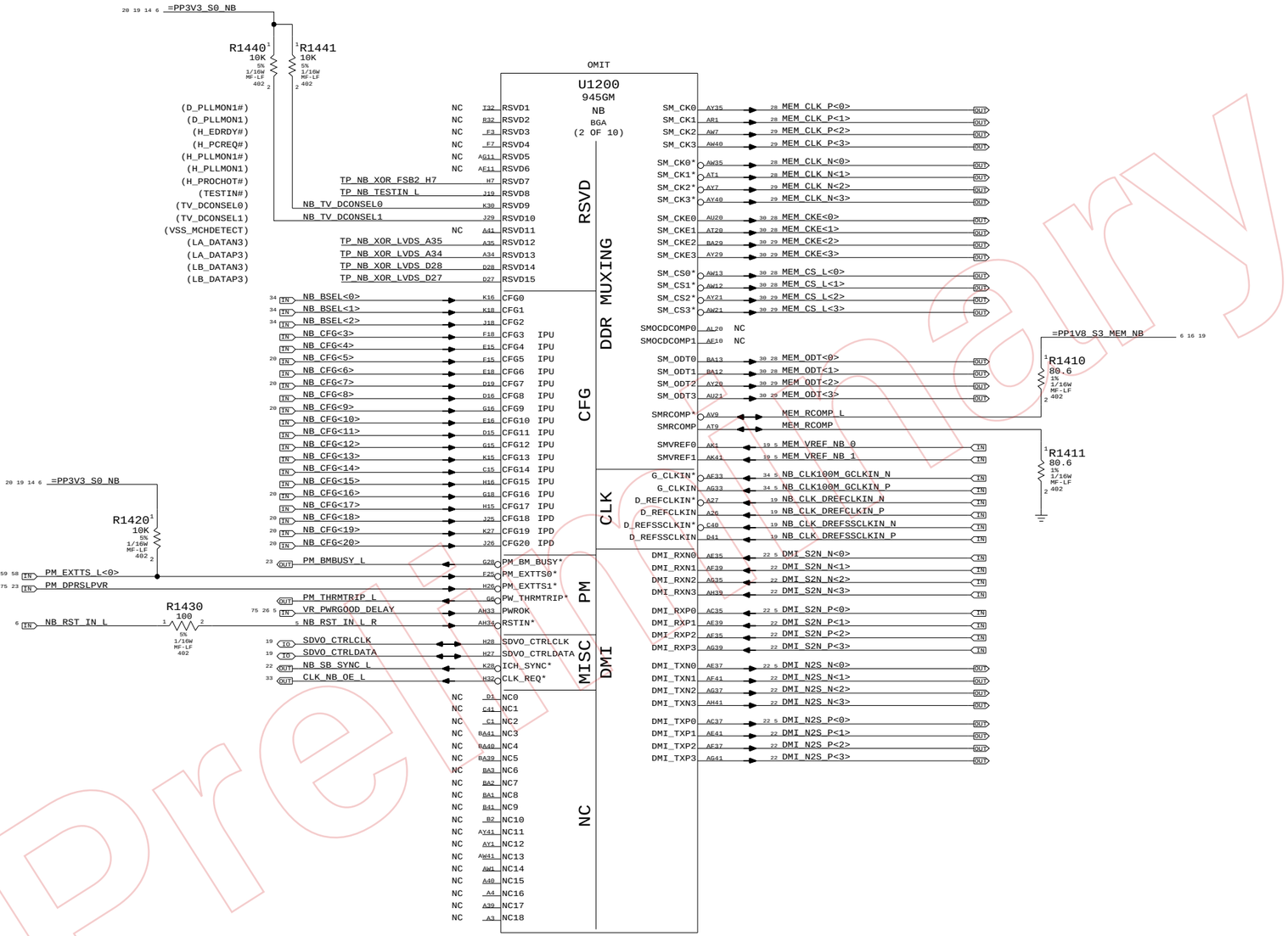


NB PEG / Video Interfaces

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 13 OF 111	

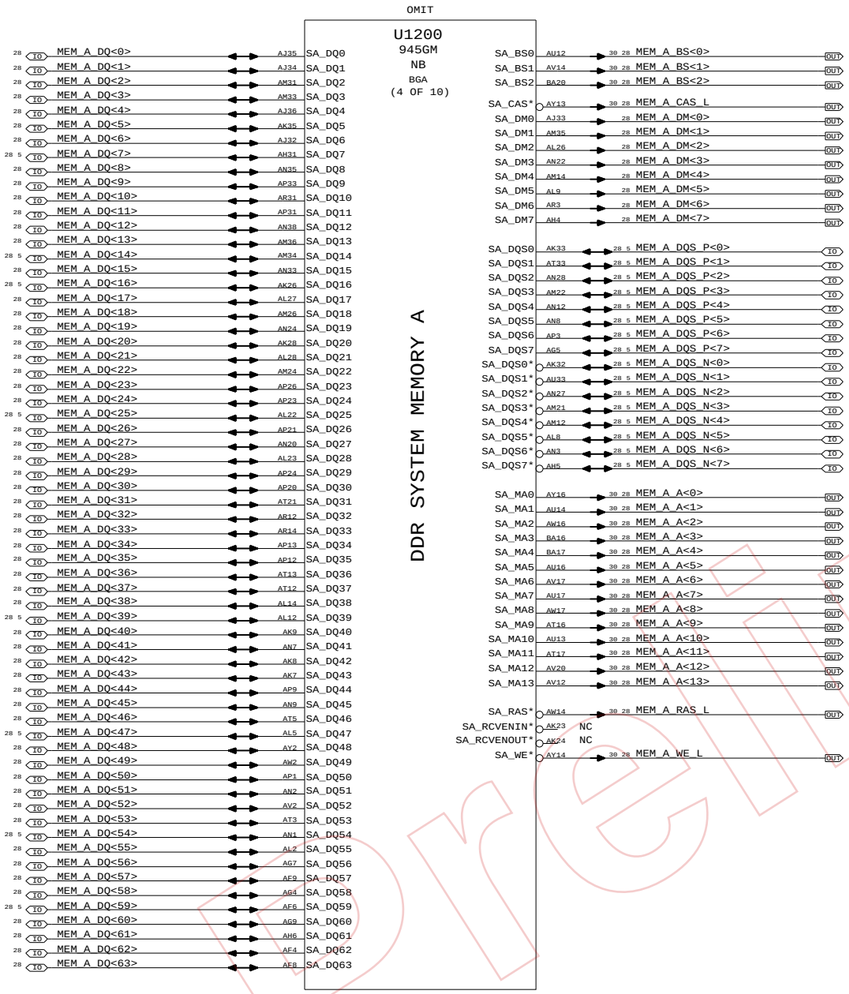


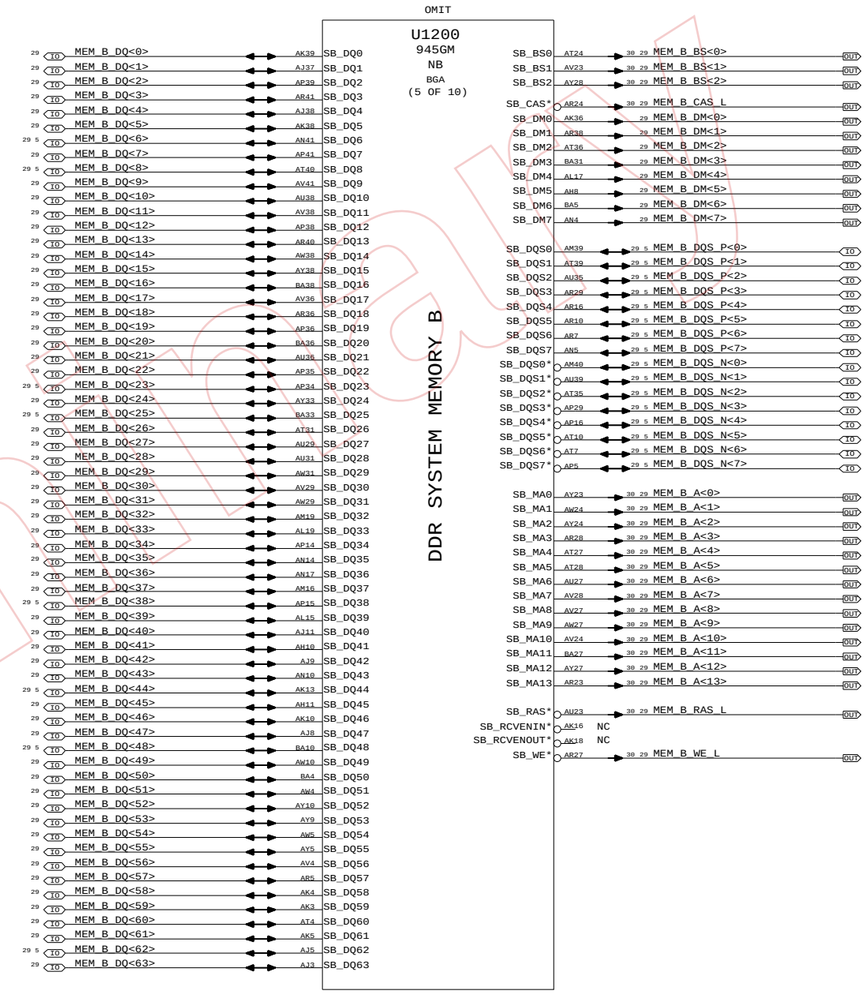
NB Misc Interfaces

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 14 OF 111	





NB DDR2 Interfaces

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

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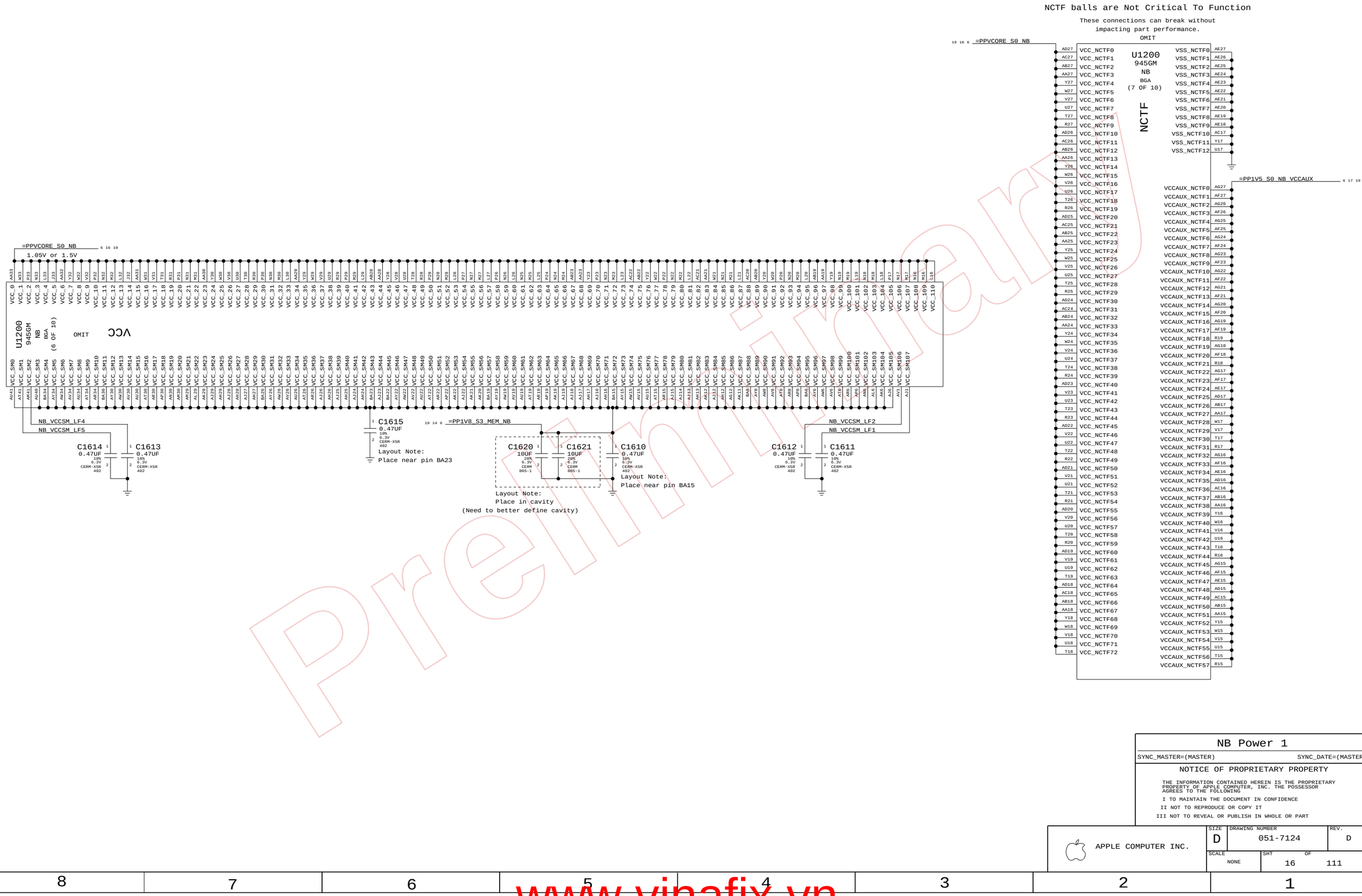
SIZE	DRAWING NUMBER	REV.
D	051-7124	D

SCALE: NONE SHT: 15 OF: 111



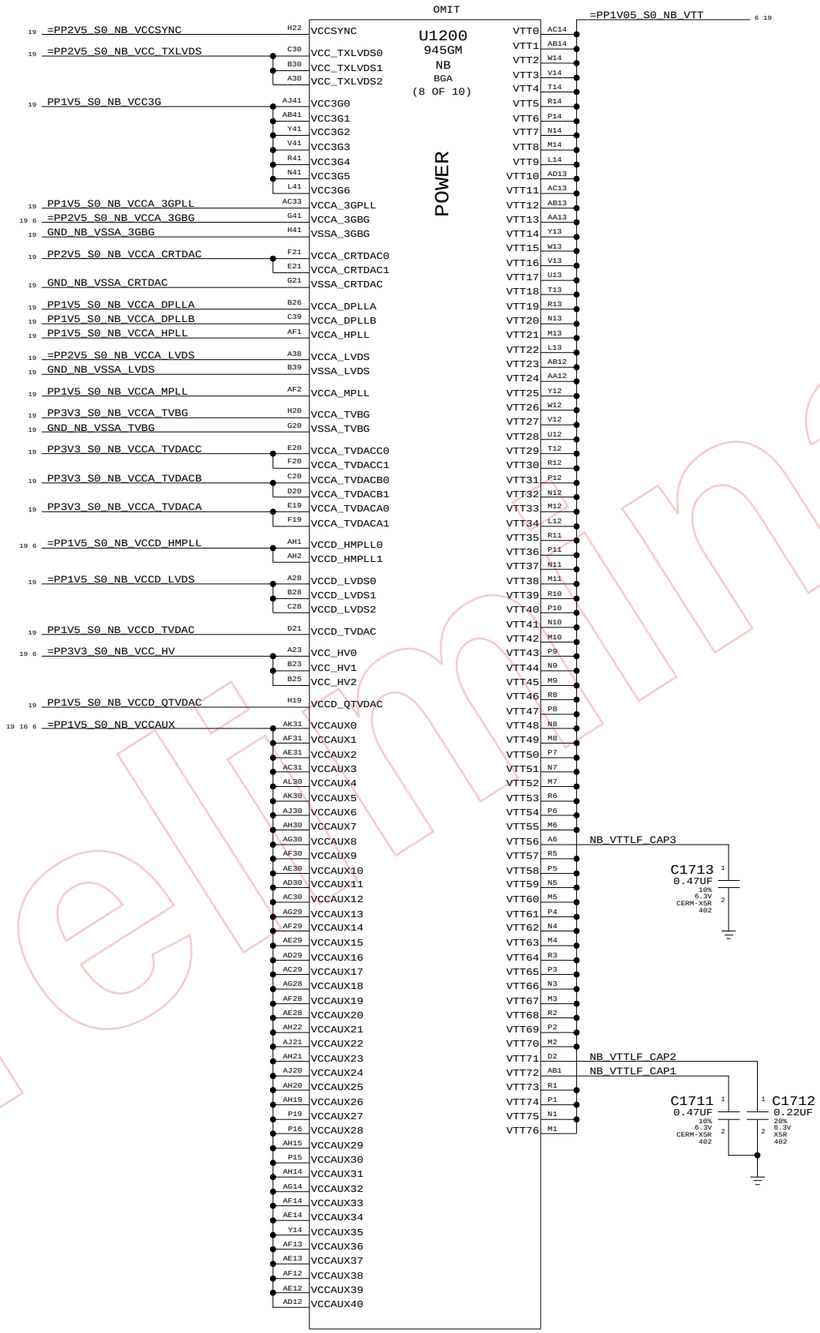
NB Power 1

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D

SCALE	SHT	OF
NONE	16	111



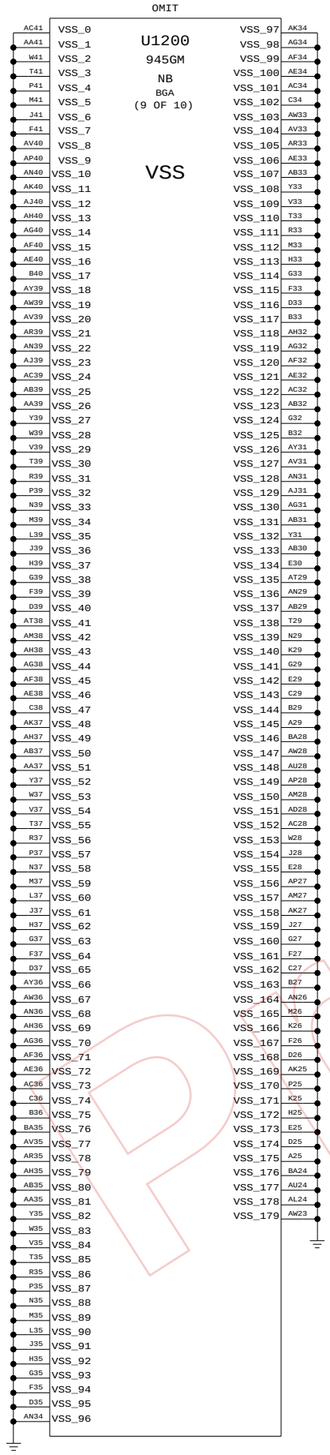
NB Power 2

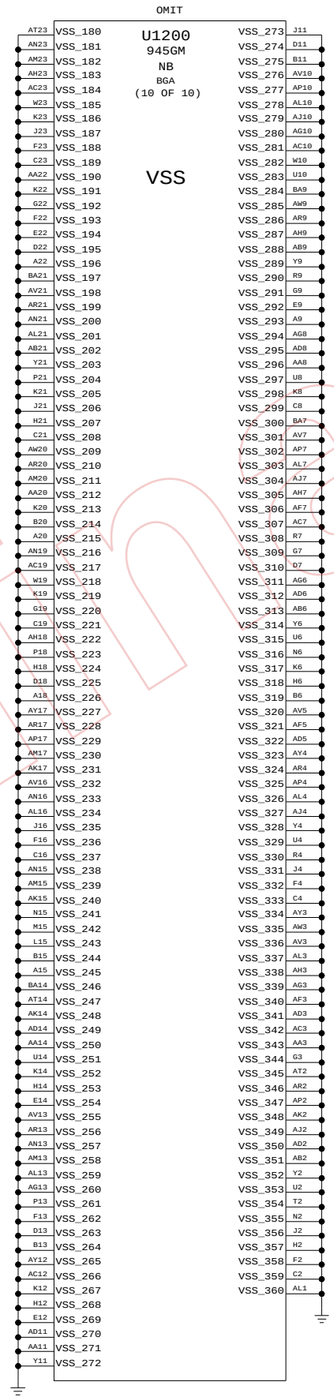
SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D

SCALE	SHT	OF
NONE	17	111





NB Grounds

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D

SCALE	SHT	OF
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

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

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
NOSTUFF C1968 330UF 20% 6.3V ELEC CASE-C1
Layout Note: Place on the edge

19 16 14 6 =PP1V8_S3_MEM_NB
R1982 1K 5% 1/16W MF-LF 402
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 17 6 =PP3V3_S0_NB_VCC_HV
C1914 10UF 20% 6.3V CERM 805-1
C1915 0.1uF 20% 10V CERM 402

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

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

TVOUT DISABLE

16 6 19 =PPVCORE_S0_NB
PP2V5_S0_NB_VCCA_CRTDAC — 17
CRT_RED — 13
CRT_RED_L — 13
CRT_GREEN — 13
CRT_GREEN_L — 13
CRT_BLUE — 13
CRT_BLUE_L — 13
CRT_IREF — 13

CRT_VSYNC_R — 13
CRT_HSYNC_R — 13
=PP2V5_S0_NB_VCCSYNC — 17 19
GND_NB_VSSA_CRTDAC — 17

TP_CRT_DDC_CLK TRUE — CRT_DDC_CLK — 13
TP_CRT_DDC_DATA TRUE — CRT_DDC_DATA — 13

DISPLAY DISABLE

TP_NB_VCCA_DPLLA TRUE — PP1V5_S0_NB_VCCA_DPLLA — 17
TP_NB_VCCA_DPLLB TRUE — PP1V5_S0_NB_VCCA_DPLLB — 17

NB_CLK_DREFCLKIN_N (IN) — 14
NB_CLK_DREFCLKIN_P (OUT) — 14
NB_CLK_DREFSSCLKIN_P (OUT) — 14
NB_CLK_DREFSSCLKIN_N (OUT) — 14

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

19 6 =PP1V5_S0_NB_3GPLL
L1970 91NH 1210
Layout Note: Place L and C close to MCH
C1970 220UF 20% 2.5V POLY SMD2
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 CERM 805-1
C1972 10UF 20% 6.3V CERM 805-1
Layout Note: 10uF caps should be close to MCH on opposite side.

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

LVDS DISABLE

LVDS_A_CLK_N (TO) TRUE — TP_LVDS_A_CLK_N
LVDS_A_CLK_P (TO) TRUE — TP_LVDS_A_CLK_P
LVDS_B_CLK_N (TO) TRUE — TP_LVDS_B_CLK_N
LVDS_B_CLK_P (TO) TRUE — TP_LVDS_B_CLK_P

LVDS_A_DATA_N<0> (TO) TRUE — TP_LVDS_A_DATA_N<0>
LVDS_A_DATA_N<1> (TO) TRUE — TP_LVDS_A_DATA_N<1>
LVDS_A_DATA_N<2> (TO) TRUE — TP_LVDS_A_DATA_N<2>

LVDS_A_DATA_P<0> (TO) TRUE — TP_LVDS_A_DATA_P<0>
LVDS_A_DATA_P<1> (TO) TRUE — TP_LVDS_A_DATA_P<1>
LVDS_A_DATA_P<2> (TO) TRUE — TP_LVDS_A_DATA_P<2>

LVDS_B_DATA_N<0> (TO) TRUE — TP_LVDS_B_DATA_N<0>
LVDS_B_DATA_N<1> (TO) TRUE — TP_LVDS_B_DATA_N<1>
LVDS_B_DATA_N<2> (TO) TRUE — TP_LVDS_B_DATA_N<2>

LVDS_B_DATA_P<0> (TO) TRUE — TP_LVDS_B_DATA_P<0>
LVDS_B_DATA_P<1> (TO) TRUE — TP_LVDS_B_DATA_P<1>
LVDS_B_DATA_P<2> (TO) TRUE — TP_LVDS_B_DATA_P<2>

LVDS_BKLTEN (IN) TRUE — TP_LVDS_BKLTEN
LVDS_VDDEN (IN) TRUE — TP_LVDS_VDDEN
LVDS_IBG (IN) TRUE — TP_LVDS_IBG
GND_NB_VSSA_LVDS (IN) TRUE — TP_GND_NB_VSSA_LVDS
LVDS_VREFH (OUT) TRUE — TP_LVDS_VREFH
LVDS_VREFL (OUT) 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

LVDS_BKLTCTL (IN) TRUE — TP_LVDS_BKLTCTL
LVDS_CLKCTLA (IN) TRUE — TP_LVDS_CLKCTLA
LVDS_CLKCTLB (IN) TRUE — TP_LVDS_CLKCTLB
LVDS_DDC_CLK (IN) TRUE — TP_LVDS_DDC_CLK
LVDS_DDC_DATA (IN) TRUE — TP_LVDS_DDC_DATA

TVOUT DISABLE

19 6 =PP1V5_S0_NB
PP3V3_S0_NB_VCCA_TVDACA — 17
PP3V3_S0_NB_VCCA_TVDACB — 17
PP3V3_S0_NB_VCCA_TVDACC — 17
PP3V3_S0_NB_VCCA_TVBG — 17
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

19 6 =PP1V5_S0_NB_TVDAC
PP1V5_S0_NB_VCCD_TVDAC — 17
VOLTAGE=1.5V MIN_LINE_WIDTH=0.6MM MIN_NECK_WIDTH=0.15MM
PP1V5_S0_NB_VCCD_QTVDAC — 17

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

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

NB (GM) Decoupling

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 19 OF 111	

NB_CFG<3>	RESERVED

NB_CFG<4>	RESERVED

14 NB_CFG<5>
Internal pull-up

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

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

PROBABLY NOT NEEDED

NB_CFG<6>	RESERVED

14 NB_CFG<7>
Internal pull-up

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

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

NB_CFG<8>	RESERVED

14 NB_CFG<9>
Internal pull-up

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

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

NB_CFG<10>	RESERVED

NB_CFG<11>	RESERVED

Internal pull-ups

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

NB_CFG<14>	RESERVED

NB_CFG<15>	RESERVED

14 NB_CFG<16>
Internal pull-up

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

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

NB_CFG<17>	RESERVED

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

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

14 NB_CFG<18>
Internal pull-down

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

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

14 NB_CFG<19>
Internal pull-down

945 External Design Spec says reserved

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

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

14 NB_CFG<20>
Internal pull-down

PROBABLY NOT NEEDED

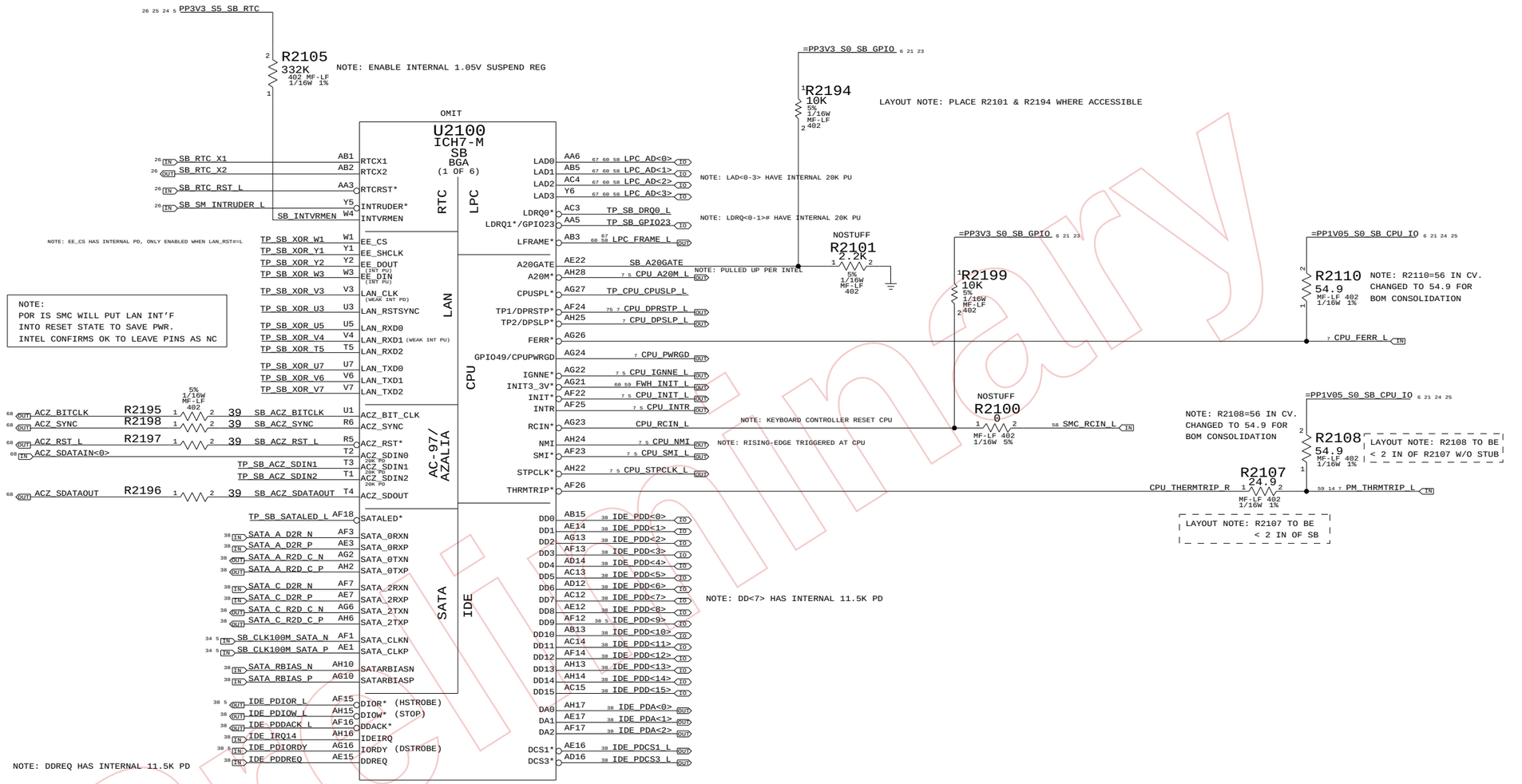
NB Config Straps

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D

SCALE	SHT	OF
NONE	20	111



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

SB: 1 OF 4

SYNC_MASTER=N/A SYNC_DATE=N/A

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SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 21 OF 111	

=PP3V3_S5_SB_USB

R2225 10K 5% 1/16W MF-LF 402
R2200 10K 5% 1/16W MF-LF 402
R2250 10K 5% 1/16W MF-LF 402
R2255 10K 5% 1/16W MF-LF 402
R2251 10K 5% 1/16W MF-LF 402
R2223 10K 5% 1/16W MF-LF 402
R2222 10K 5% 1/16W MF-LF 402
R2226 10K 5% 1/16W MF-LF 402

USB_A_OC_L
USB_B_OC_L
USB_C_OC_L
USB_D_OC_L
USB_E_OC_L

SB_GPIO29
SB_GPIO30
SB_GPIO31

=PP3V3_S5_SB_IO

R2205 10K MF-LF 1/16W 402 5%
NOSTUFF
R2206 10K MF-LF 1/16W 402 5%
R2207 10K MF-LF 1/16W 402 5%

SPI_SCLK
SPI_CE_L
SPI_ARB
SPI_SI
SPI_SO

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U2100
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SB
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PCI-EXP

PCIE_A_D2R_N	F26	PERN1
PCIE_A_D2R_P	F25	PERP1
PCIE_A_R2D_C_N	E28	PETN1
PCIE_A_R2D_C_P	E27	PETP1
PCIE_B_D2R_N	H26	PERN2
PCIE_B_D2R_P	H25	PERP2
PCIE_B_R2D_C_N	G28	PETN2
PCIE_B_R2D_C_P	G27	PETP2
PCIE_C_D2R_N	K26	PERN3
PCIE_C_D2R_P	K25	PERP3
PCIE_C_R2D_C_N	J28	PETN3
PCIE_C_R2D_C_P	J27	PETP3
PCIE_D_D2R_N	M26	PERN4
PCIE_D_D2R_P	M25	PERP4
PCIE_D_R2D_C_N	L28	PETN4
PCIE_D_R2D_C_P	L27	PETP4
PCIE_E_D2R_N	P26	PERN5
PCIE_E_D2R_P	P25	PERP5
PCIE_E_R2D_C_N	N28	PETN5
PCIE_E_R2D_C_P	N27	PETP5
PCIE_F_D2R_N	T25	PERN6
PCIE_F_D2R_P	T24	PERP6
PCIE_F_R2D_C_N	R28	PETN6
PCIE_F_R2D_C_P	R27	PETP6

DMI

DMI0RXN	V26	DMI_N2S_N<0>
DMI0RXP	V25	DMI_N2S_P<0>
DMI0TXN	U28	DMI_S2N_N<0>
DMI0TXP	U27	DMI_S2N_P<0>
DMI1RXN	Y26	DMI_N2S_N<1>
DMI1RXP	Y25	DMI_N2S_P<1>
DMI1TXN	W28	DMI_S2N_N<1>
DMI1TXP	W27	DMI_S2N_P<1>
DMI2RXN	AB26	DMI_N2S_N<2>
DMI2RXP	AB25	DMI_N2S_P<2>
DMI2TXN	AA28	DMI_S2N_N<2>
DMI2TXP	AA27	DMI_S2N_P<2>
DMI3RXN	AD25	DMI_N2S_N<3>
DMI3RXP	AD24	DMI_N2S_P<3>
DMI3TXN	AC28	DMI_S2N_N<3>
DMI3TXP	AC27	DMI_S2N_P<3>
DMI_CLKN	AE28	SB_CLK100M_DMI_N
DMI_CLKP	AE27	SB_CLK100M_DMI_P
DMI_ZCOMP	C25	
DMI_IRCOMP	D25	DMI_IRCOMP_R

R2203 24.9 1/16W MF-LF 1% 402

PP1V5_S0_SB_VCC1_5_B

LAYOUT NOTE:
PLACE R2203 < 1/2 IN FROM SB

SPI

SPI_CLK (INT PD)	R2	
SPI_CS*	P6	
SPI_ARB (INT PD)	P1	
SPI_MOSI	P5	
SPI_MISO	P2	

USB

USB_A_OC_L	D3	OC0*
USB_B_OC_L	C4	OC1*
USB_C_OC_L	D5	OC2*
USB_D_OC_L	D4	OC3*
USB_E_OC_L	E5	OC4*
SB_GPIO29	C3	OC5*/GPIO29
SB_GPIO30	A2	OC6*/GPIO30
SB_GPIO31	B3	OC7*/GPIO31

USBP0N	F1	USB_A_N
USBP0P	F2	USB_A_P
USBP1N	G4	USB_B_N
USBP1P	G3	USB_B_P
USBP2N	H1	USB_C_N
USBP2P	H2	USB_C_P
USBP3N	J4	USB_D_N
USBP3P	J3	USB_D_P
USBP4N	K1	USB_E_N
USBP4P	K2	USB_E_P
USBP5N	L4	USB_F_N
USBP5P	L5	USB_F_P
USBP6N	M1	USB_G_N
USBP6P	M2	USB_G_P
USBP7N	N4	USB_H_N
USBP7P	N3	USB_H_P

EXTERNAL 0
AIRPORT (MINI-PCIE)
EXTERNAL 1
CAMERA
EXTERNAL 2
CF/SD
BT
IR

NOTE: USBP[0-7]P/N HAVE INTERNAL 15K PD

R2204 22.6 1% 1/16W MF-LF 402

USBRBIAS*	D2	
USBRBIAS	D1	USB_RBIAS_PN

VOLTAGE=0

LAYOUT NOTE:
PLACE R2204 < 1/2 IN FROM SB

NOTE: GNT[0-3]# HAVE INT 20K PU ENABLED ONLY WHEN PCIRST#=0 AND PWROK=H

=PP3V3_S0_SB

R2298 10K 5% 1/16W MF-LF 402
R2299 10K 5% 1/16W MF-LF 402

SB_CRT_TVOUT_MUX — NOTE: FWH_WP_L NOT USED

PCI_PME_FW_L

BOOT_LPC_SPI_L

R2211 1K 5% 1/16W MF-LF 402

BOM NOTE FOR PD ON PCI_GNT3_L:
NO STUFF - DEFAULT
STUFF - A16 SWAP OVERRIDE
(STRAPPED TO TOP-BLOCK SWAP MODE IE SB INVERTS A16 FOR ALL CYCLES TARGETING FWH BIOS SPACE)

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PCI

PCI_AD<0>	E18	AD0
PCI_AD<1>	C18	AD1
PCI_AD<2>	A16	AD2
PCI_AD<3>	F18	AD3
PCI_AD<4>	E16	AD4
PCI_AD<5>	A18	AD5
PCI_AD<6>	E17	AD6
PCI_AD<7>	A17	AD7
PCI_AD<8>	A15	AD8
PCI_AD<9>	C14	AD9
PCI_AD<10>	E14	AD10
PCI_AD<11>	D14	AD11
PCI_AD<12>	B12	AD12
PCI_AD<13>	C13	AD13
PCI_AD<14>	G15	AD14
PCI_AD<15>	G13	AD15
PCI_AD<16>	E12	AD16
PCI_AD<17>	C11	AD17
PCI_AD<18>	D11	AD18
PCI_AD<19>	A11	AD19
PCI_AD<20>	A10	AD20
PCI_AD<21>	F11	AD21
PCI_AD<22>	F10	AD22
PCI_AD<23>	E9	AD23
PCI_AD<24>	D9	AD24
PCI_AD<25>	B9	AD25
PCI_AD<26>	A8	AD26
PCI_AD<27>	A6	AD27
PCI_AD<28>	C7	AD28
PCI_AD<29>	B6	AD29
PCI_AD<30>	E6	AD30
PCI_AD<31>	D6	AD31
PCI_FRAME_L	F16	FRAME*

REQ0*	D7	PCI_REQ0_L
GNT0*	E7	TP_PCI_GNT0_L
REQ1*	C16	PCI_REQ1_L
GNT1*	D16	PCI_GNT1_L
REQ2*	C17	PCI_REQ2_L
GNT2*	D17	TP_PCI_GNT2_L
REQ3*	E13	PCI_REQ3_L
GNT3*	F13	TP_PCI_GNT3_L
REQ4*/GPIO22	A13	
GNT4*/GPIO48	A14	TP_PCI_GNT4_L
GPIO1/REQ5*	C8	
GPIO17/GNT5*	D8	
C/BE0*	B15	PCI_C_BE_L<0>
C/BE1*	C12	PCI_C_BE_L<1>
C/BE2*	D12	PCI_C_BE_L<2>
C/BE3*	C15	PCI_C_BE_L<3>
IRDY*	A7	PCI_IRDY_L
PAR	E10	PCI_PAR
PCICLK	A9	PCI_CLK_SB
DEVSEL*	A12	PCI_DEVSEL_L
PERR*	C9	PCI_PERR_L
PLOCK*	E11	PCI_LOCK_L
SERR*	B10	PCI_SERR_L
STOP*	F15	PCI_STOP_L
TRDY*	F14	PCI_TRDY_L
PLTRST*	C26	PLT_RST_L
PCIRST*	B18	PCI_RST_L
(INT 20K PU) PME*	B19	TP_PCI_PME_L

INT I/F

INT_PIRQA_L	A3	PIRQA*
INT_PIRQB_L	B4	PIRQB*
INT_PIRQC_L	C5	PIRQC*
INT_PIRQD_L	B5	PIRQD*
GPIO2/PIRQE*	G8	SB_GPIO2
GPIO3/PIRQF*	F7	SB_GPIO3
GPIO4/PIRQG*	F8	SB_GPIO4
GPIO5/PIRQH*	G7	ODD_PWR_EN_L

MISC

NOTE: CHANGE SYMBOL TO RSVD[1-9]

TP_SB_XOR_AE5	AE5	RSVD0
TP_SB_XOR_AD5	AD5	RSVD1
TP_SB_XOR_AG4	AG4	RSVD2
TP_SB_XOR_AH4	AH4	RSVD3
TP_SB_XOR_AD9	AD9	RSVD4
TP_SB_XOR_AE9	AE9	RSVD5
TP_SB_XOR_AG8	AG8	RSVD6
TP_SB_XOR_AH8	AH8	RSVD7
TP_SB_RSVD9 (AKA TP3, INTERNAL 20K PU)	F21	RSVD8
NB_SB_SYNC_L	AH20	MCH_SYNC*

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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SIZE	DRAWING NUMBER	REV.
D	051-7124	D

SCALE: NONE SHT 22 OF 111

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

=PP3V3_S0_SB_GPIO 6 21 23

=PP3V3_S5_SB 6 23 25 26

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

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

26 25 23 6 =PP3V3_S5_SB

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

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SMB

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

SYS GPIO

PWR MNGT

CLKS

SATA GPIO

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	
CLK14	AC1	34 5 SB_CLK14P3M_TIMER IN	
CLK48	B2	34 5 SB_CLK48M_USBCTLR IN	
SUSCLK	C20	59 SUS_CLK_SB OUT	
SLP_S3*	B24	88 79 77 58 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		
GPIO9	E20	58 26 SMS_INT_L IN	
GPIO10	A20	58 SMC_SB_NMI IN	
DEF=GPI GPIO12	F19	23 PATA_PWR_EN_L OUT	
GPIO13	E19		
DEF=GPI GPIO14	R4	38 IDE_RESET_L OUT	
GPIO15	E22	SV_SET_UP 23 60	
GPIO24	R3	CRB_SV_DET 23	
GPIO25	D20	TP_SB_GPIO25_DO_NOT_USE	
OD GPIO35	AD21	33 SB_CLK100M_SATA_OE_L OUT	
GPIO38	AD20	TP_SB_GPIO38 TO	
DEF=GPI GPIO39	AE20	23 SATA_C_PWR_EN_L OUT	

=PP3V3_S5_SB_PM 6 11

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

58 PM_BATLOW_L IN

58 PM_RSMRST_L IN

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

58 SMC_WAKE_SCI_L IN

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

26 25 23 6 =PP3V3_S5_SB

R2306 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 MF-LF 402

23 PATA_PWR_EN_L

=PP3V3_S0_SB_GPIO 6 21 23

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

23 SATA_C_PWR_EN_L

SB: 3 OF 4

SYNC_MASTER=N/A SYNC_DATE=N/A

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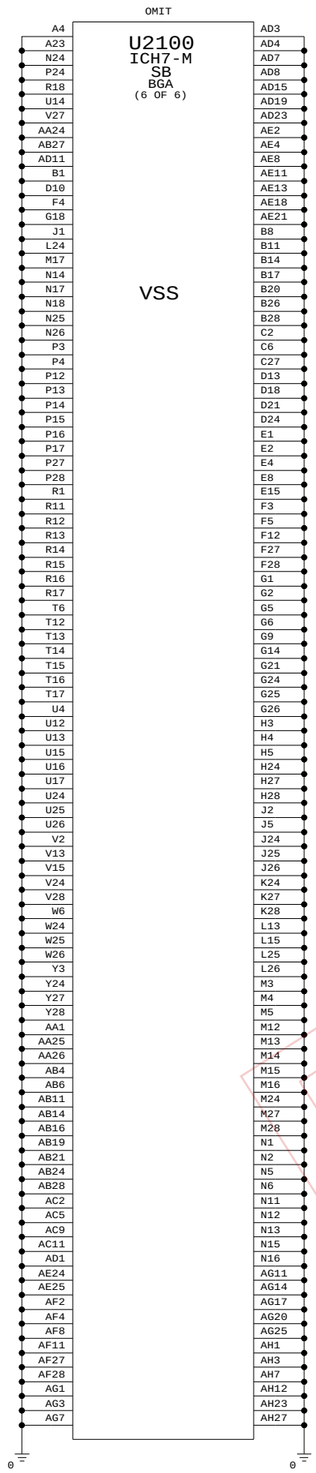
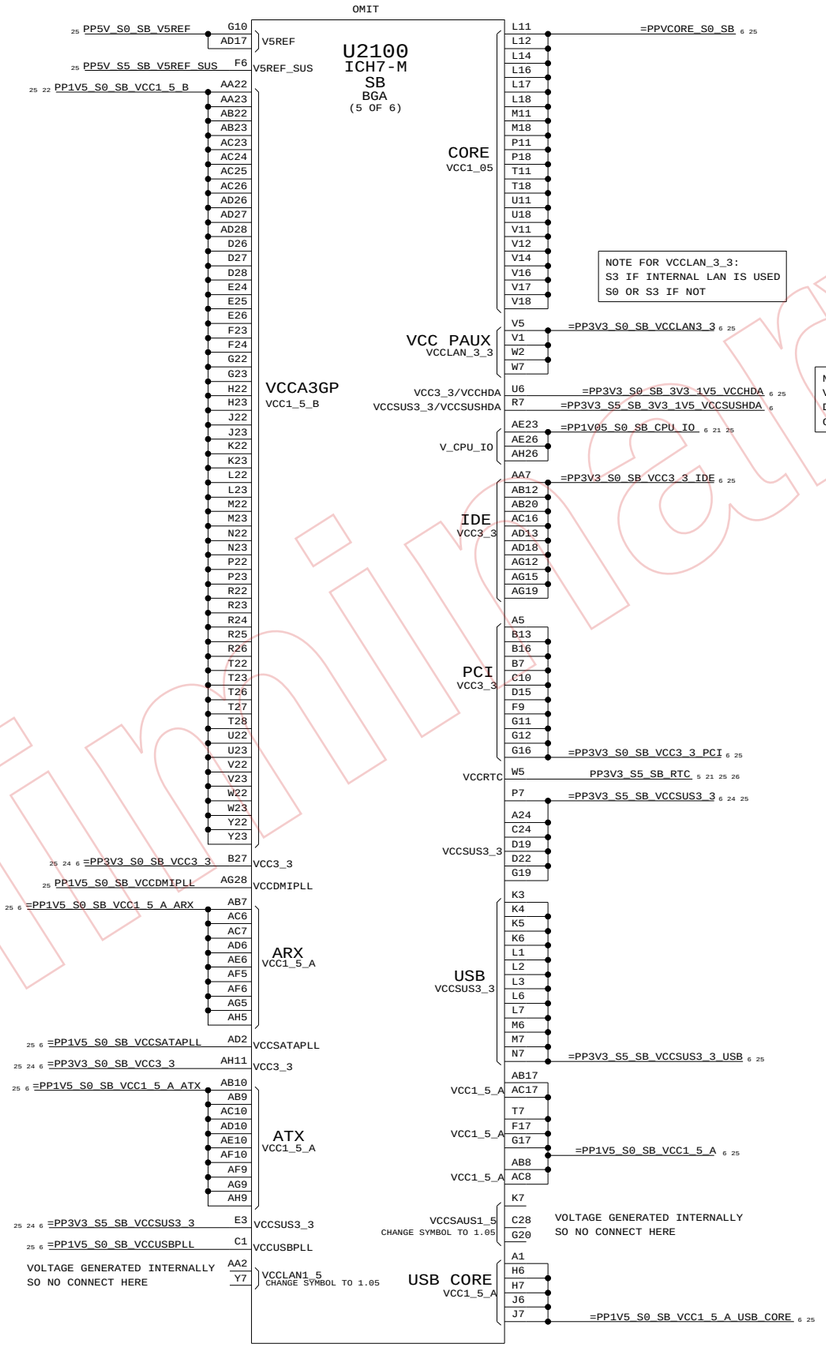
SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 23 OF 111	





SB: 4 OF 4

SYNC_MASTER=N/A SYNC_DATE=N/A

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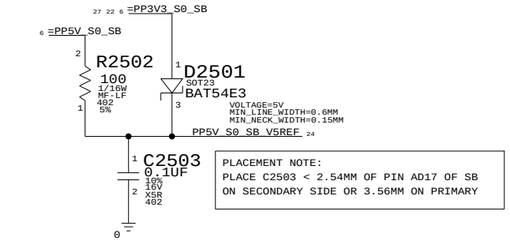
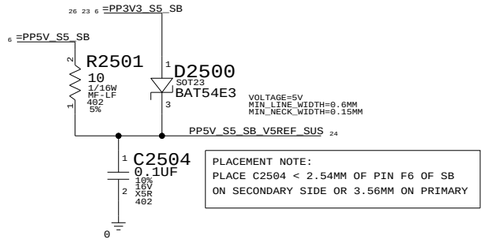
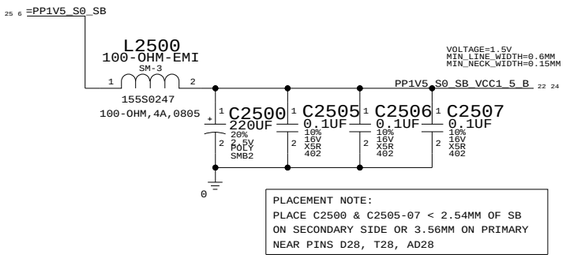
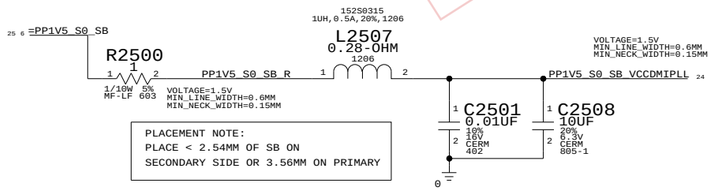
SIZE	DRAWING NUMBER	REV.
D	051-7124	D

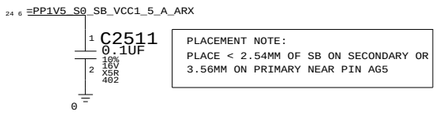
SCALE	SHT
NONE	24 OF 111

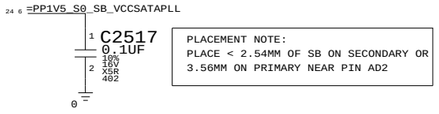


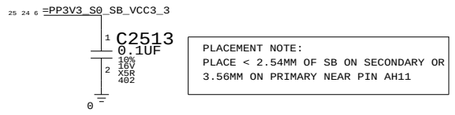


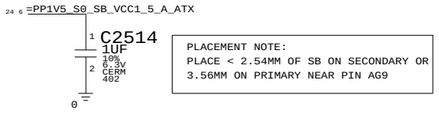


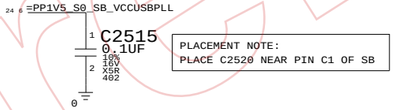


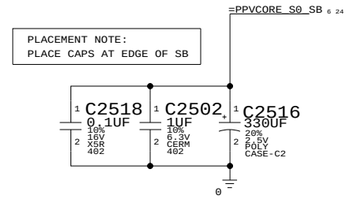


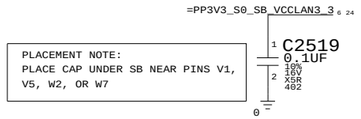


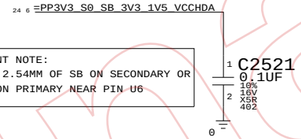


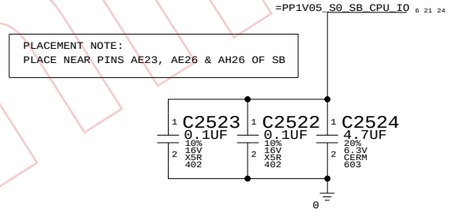


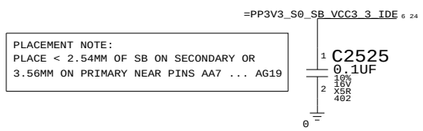


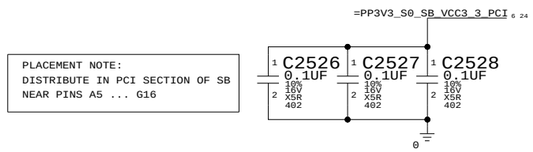


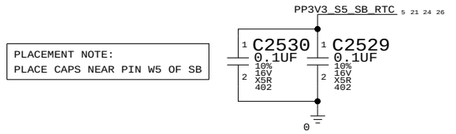


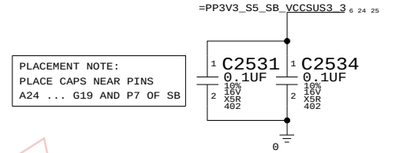


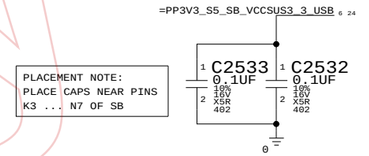


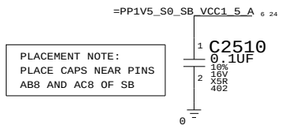


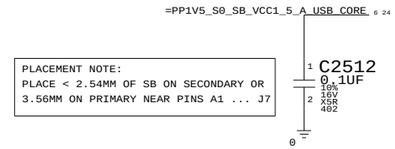












SB:DECOUPLING

SYNC_MASTER=N/A SYNC_DATE=N/A

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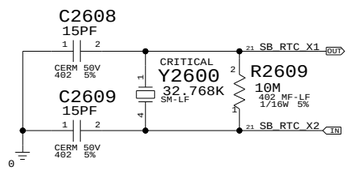
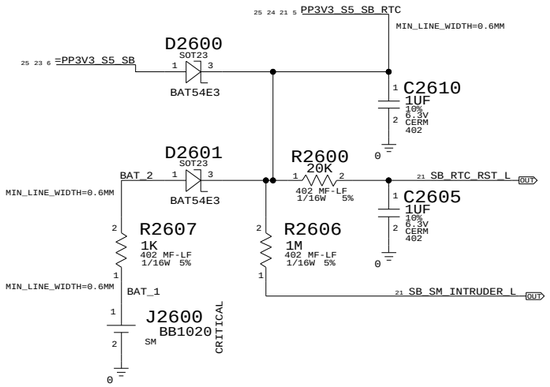
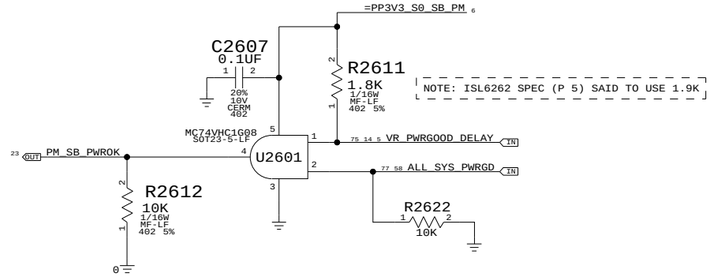
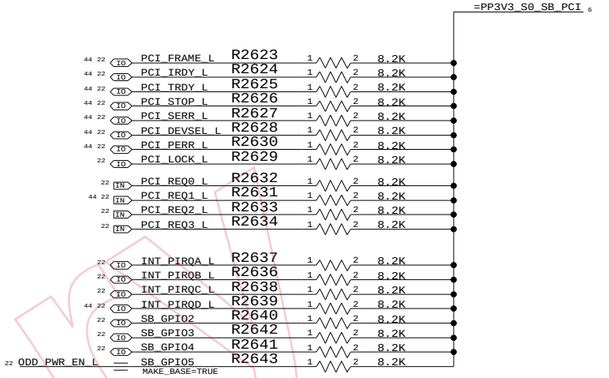
APPLE COMPUTER INC.

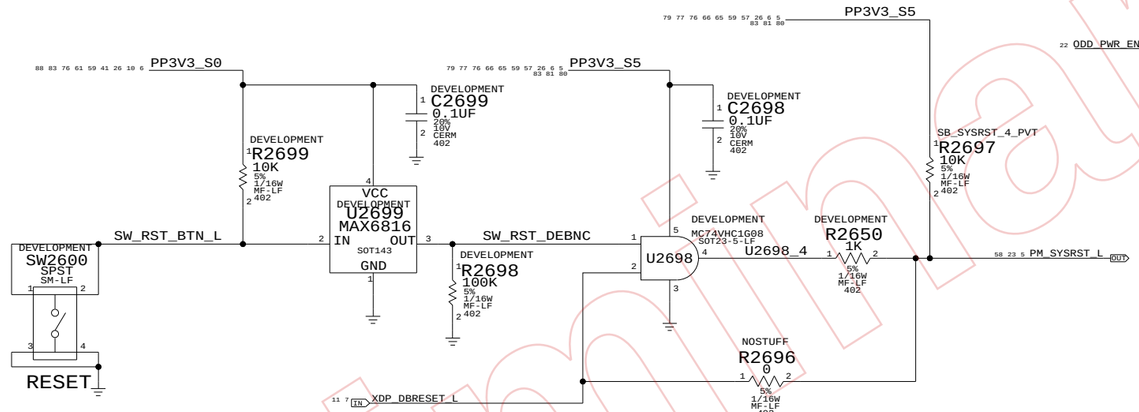
SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 25 OF 111	

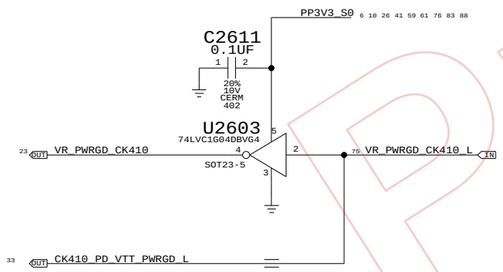












SB: MISC

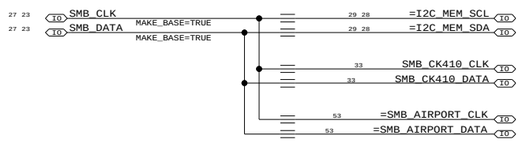
SYNC_MASTER=N/A SYNC_DATE=N/A

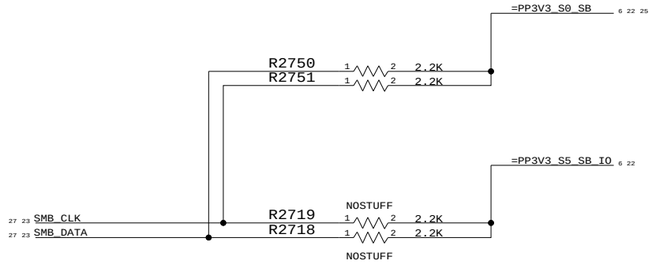
APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D

SCALE: NONE SHT 26 OF 111

SB I2C BUSSES





SB: SMB HUB

SYNC_MASTER=N/A SYNC_DATE=N/A

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 27 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)

DDR2 VRef

One 0.1uF per connector

29 28 6 5 =PP1V8_S3_MEM

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

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

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

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

29 28 6 5 =PP1V8_S3_MEM

29 28 5 MEM_VREF

C2850 2.2UF 20% 6.3V CERM1 603

C2800 0.1uF 20% 10V CERM 402

OMIT

CRITICAL

J2800 F-RT-SM1 DDR2-SODIMM-STD

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

516S0403 ALL NC'S

=PP1V8_S3_MEM (5 6 28 29)

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

DDR2 Bypass Caps

(For return current)

29 28 6 5 =PP1V8_S3_MEM

C2801 C2802 C2803 C2804 10UF 20% 6.3V X5R 603

C2810 C2811 C2812 C2813 0.1uF 20% 10V CERM 402

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

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

29 6 =PPSPD_S0_MEM

C2851 2.2UF 20% 6.3V CERM1 603

C2852 0.1uF 20% 10V CERM 402

DDR2 SO-DIMM Connector A

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

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SIZE	DRAWING NUMBER	REV.
D	051-7124	D

SCALE	SHT	OF
NONE	28	111

Page Notes

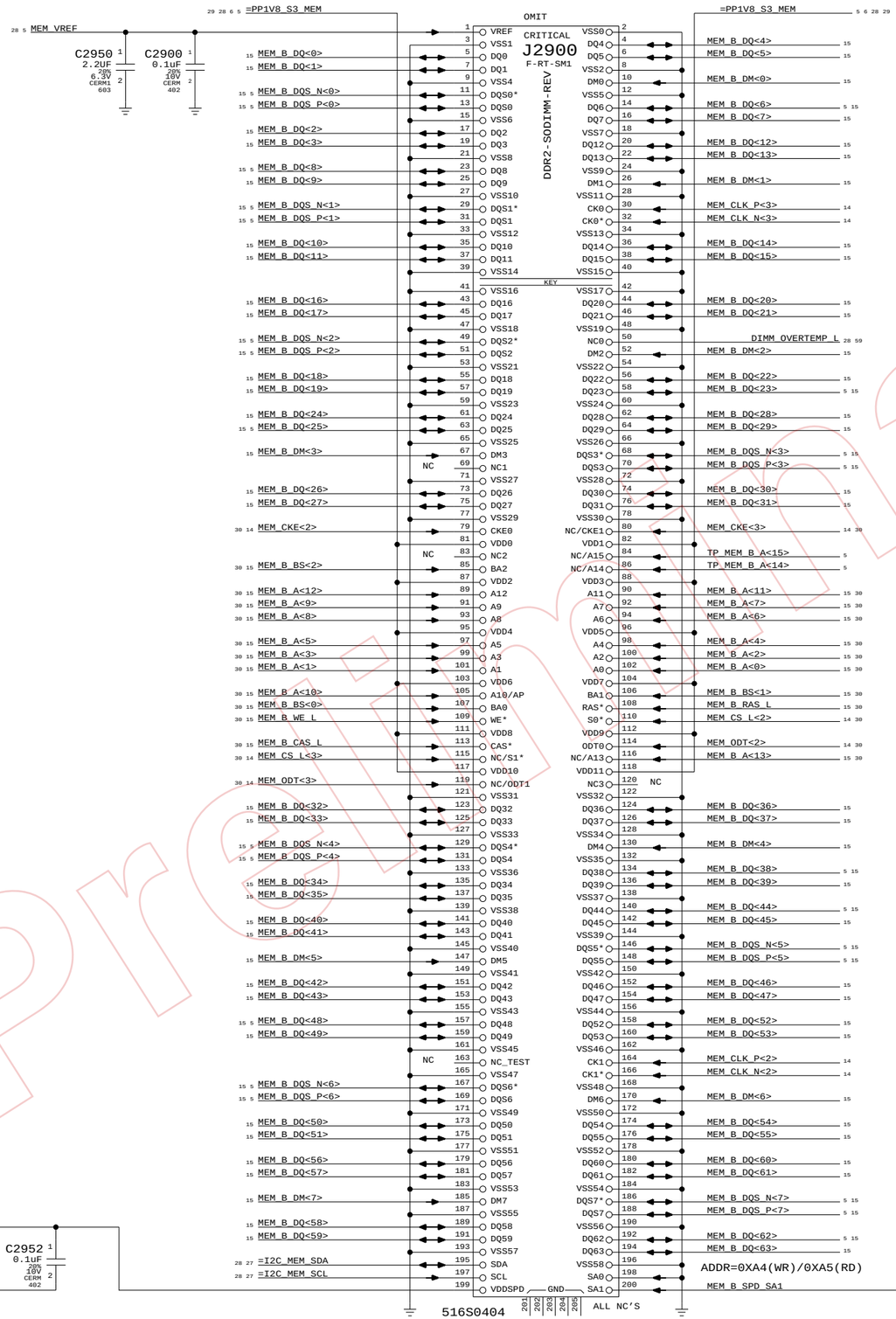
Power aliases required by this page:
- =PP1V8_S3_MEM
- =PPSPD_S0_MEM (2.5V - 3.3V)

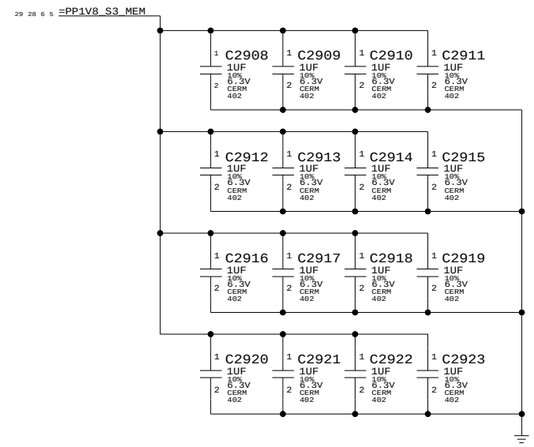
Signal aliases required by this page:
- =I2C_MEM_SCL
- =I2C_MEM_SDA

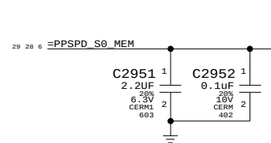
BOM options provided by this page:
(NONE)

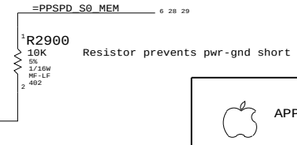
NOTE: This page does not supply VREF.
The reference voltage must be provided
by another page.

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
516S0504	1	DDR2 SODIMM REV	J2900	CRITICAL	









DDR2 SO-DIMM Connector B

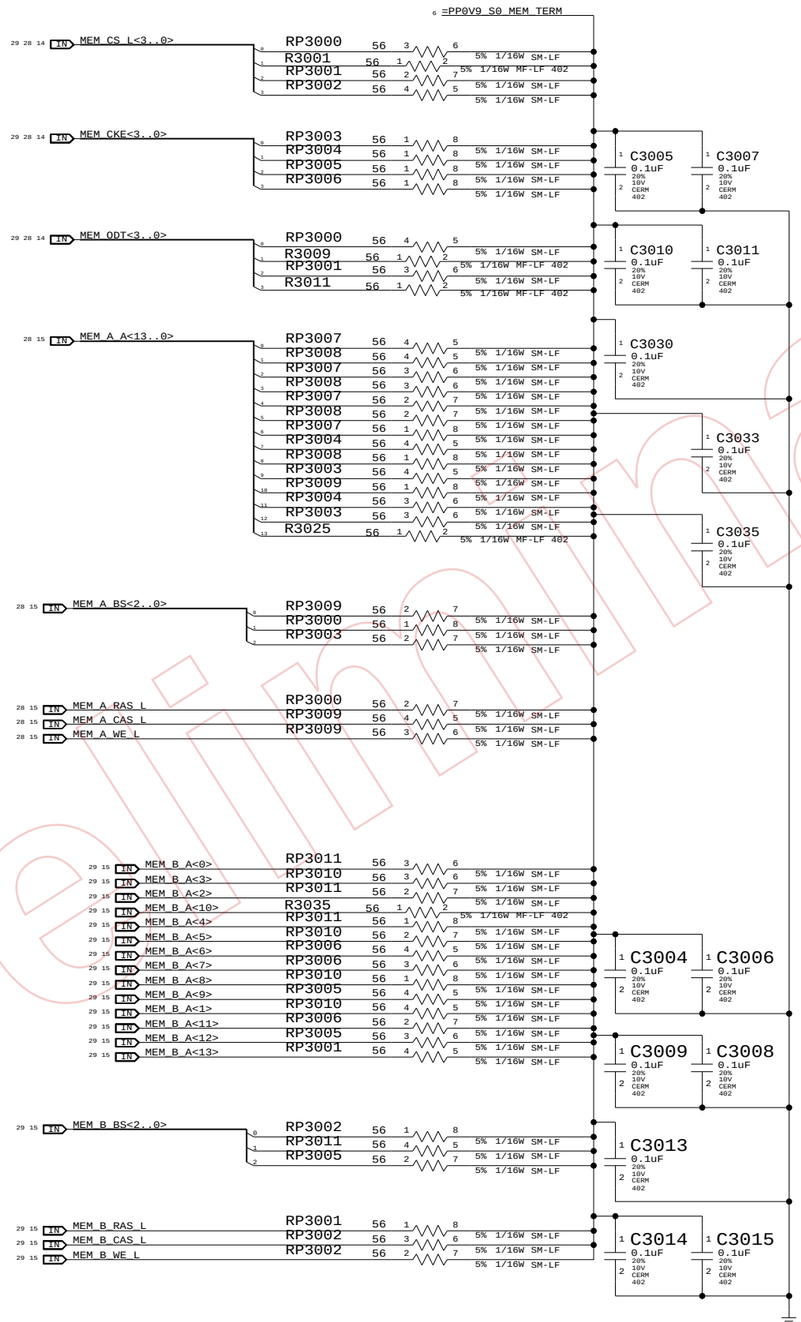
SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D

SCALE	SHT	OF
NONE	29	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	051-7124	D

SCALE	SHT	OF
NONE	30	111

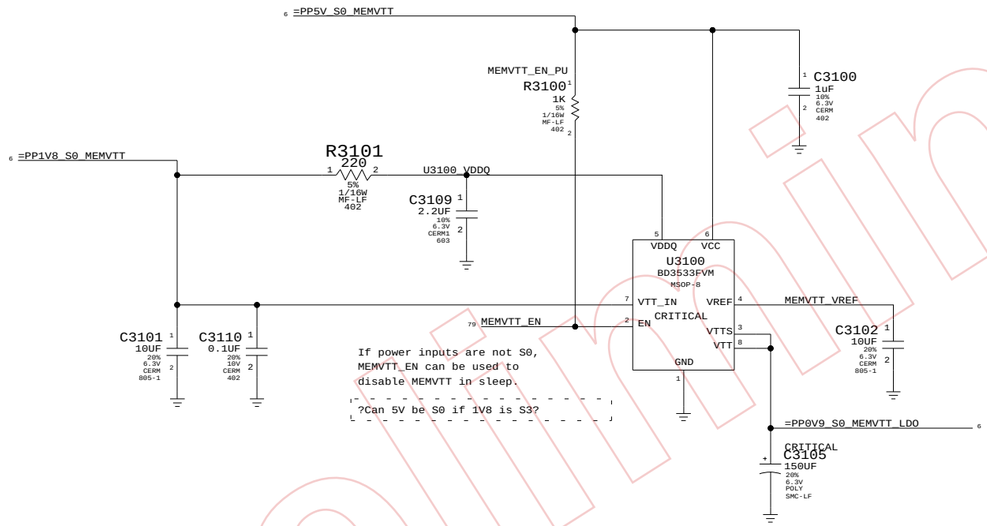
Page Notes

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



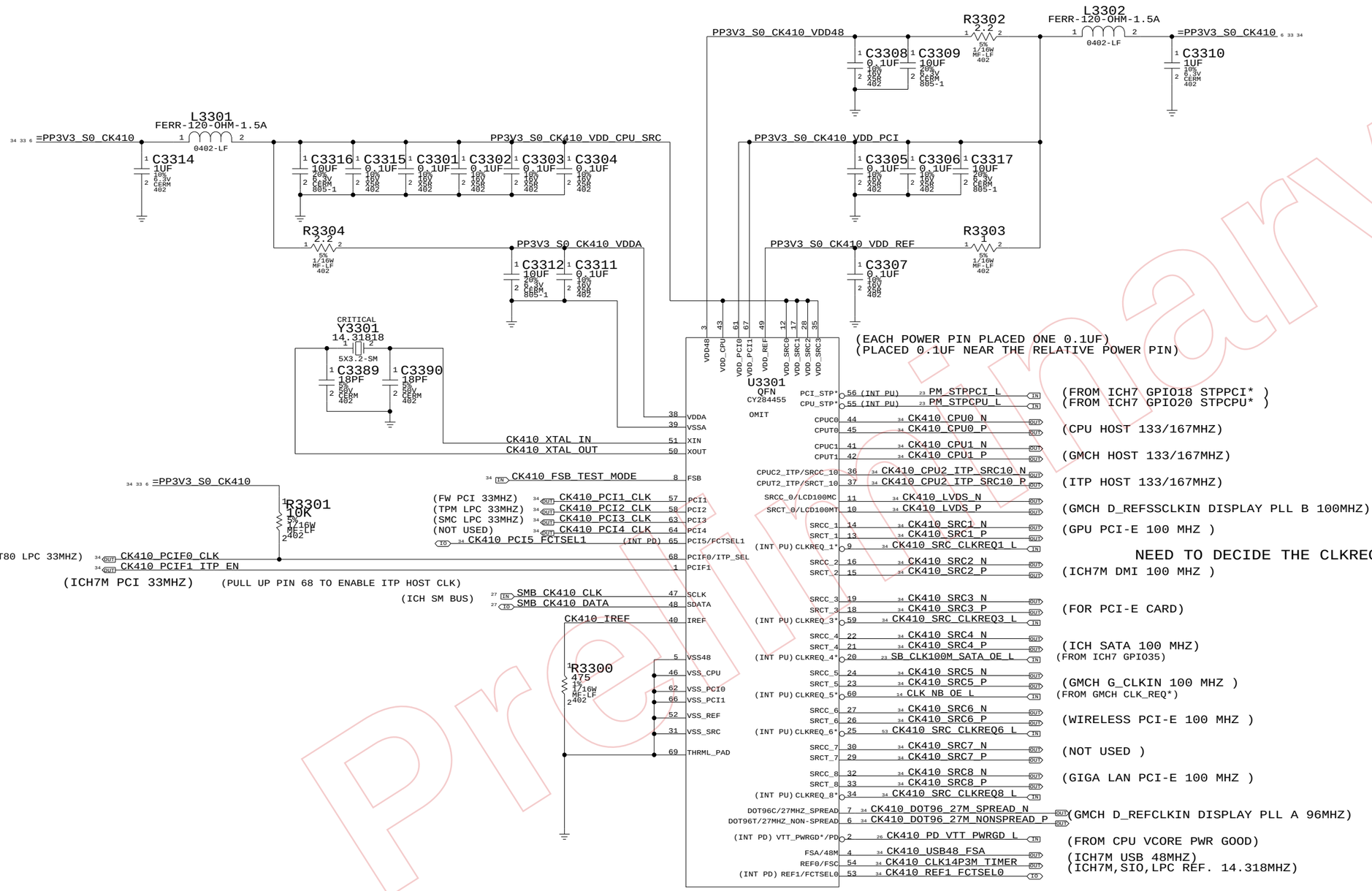
Memory Vtt Supply

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D

SCALE	SHT	OF
NONE	31	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	051-7124	D
SCALE: NONE	SHT 33 OF 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 IO CK410_PCI5_FCTSEL1 R3499 1K 1/16W 5% MF-LF 402

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

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

33 IN CK410_REF1_FCTSEL0 R3496 33
TP_CLK14P3M_SPARE OUT

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

33 IN CK410_USB48_FSA R3400 33 1/16W 5% MF-LF 402
SB_CLK48M_USBCTLR OUT 5 23

33 IN CK410_PCI4_CLK R3406 33
TP_PCI_CLK_SPARE OUT 9

33 IN CK410_PCI3_CLK R3405 33
PCI_CLK_SMC OUT 58

33 IN CK410_PCI2_CLK LEMENU R3404 33
PCI_CLK_TPM OUT 67

33 IN CK410_PCI1_CLK R3403 33
PCI_CLK_FW OUT 44

33 IN CK410_PCIF1_ITP_EN R3401 33
PCI_CLK_SB OUT 5 22

33 IN CK410_PCIF0_CLK R3402 33
PCI_CLK_PORT80 OUT 60

33 IN CK410_CPU1_P	33	R3407	FSB_CLK_NB_P	OUT	5 12 34
33 IN CK410_CPU1_N	33	R3408	FSB_CLK_NB_N	OUT	5 12 34
33 IN CK410_CPU0_P	33	R3409	FSB_CLK_CPU_P	OUT	5 7 34
33 IN CK410_CPU0_N	33	R3410	FSB_CLK_CPU_N	OUT	5 7 34
33 IN CK410_CPU2_ITP_SRC10_P	33	R3411	34 FSB_CLK_XDP_P		CPU_XDP_CLK_P 11
33 IN CK410_CPU2_ITP_SRC10_N	33	R3412	MAKE_BASE=TRUE 34 FSB_CLK_XDP_N MAKE_BASE=TRUE		CPU_XDP_CLK_N 11
33 IN CK410_SRC6_P	33	R3413	AIRPORT_CLK100M_PCIE_P	OUT	34 53
33 IN CK410_SRC6_N	33	R3414	AIRPORT_CLK100M_PCIE_N	OUT	34 53
33 IN CK410_SRC5_P	33	R3415	NB_CLK100M_GCLKIN_P	OUT	5 14 34
33 IN CK410_SRC5_N	33	R3416	NB_CLK100M_GCLKIN_N	OUT	5 14 34
33 IN CK410_SRC4_P	33	R3417	SB_CLK100M_SATA_P	OUT	5 21 34
33 IN CK410_SRC4_N	33	R3418	SB_CLK100M_SATA_N	OUT	5 21 34
33 IN CK410_SRC2_P	33	R3419	SB_CLK100M_DMI_P	OUT	5 22 34
33 IN CK410_SRC2_N	33	R3420	SB_CLK100M_DMI_N	OUT	5 22 34
33 IN CK410_SRC8_P	33	R3421	ENET_CLK100M_PCIE_P	OUT	5 34 41
33 IN CK410_SRC8_N	33	R3422	ENET_CLK100M_PCIE_N	OUT	5 34 41
33 IN CK410_SRC1_P	33	R3423	GPU_CLK100M_PCIE_P	OUT	5 34 84
33 IN CK410_SRC1_N	33	R3424	GPU_CLK100M_PCIE_N	OUT	5 34 84

33 IN CK410_LVDS_P — TP_CK410_LVDS_P
33 IN CK410_LVDS_N — TP_CK410_LVDS_N

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

33 IN CK410_SRC3_P	33	R3492	SPARE_SRC3_P	R3488	49.9
33 IN CK410_SRC3_N	33	R3491	SPARE_SRC3_N	R3487	49.9
33 IN CK410_SRC7_P	33	R3490	SPARE_SRC7_P	R3486	49.9
33 IN 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	051-7124	D
SCALE: NONE	SHT 34 OF 111	

PATA CONNECTOR

38 6 =PP5V_S0_PATA
6 =PP3V3_S0_PATA

NOSTUFF R3824 10K Per ATA Spec
NO STUFF R3852 10K
R3851 4.7K Per ATA Spec
R3853 1K

CRITICAL
JC901
M-ST-SM2-LF

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

NOTE: ATA-2, NOW OBSOLETE

21 OUT IDE_PDDREQ

NO STUFF C3804 10pF 5% 50V CERM 402

C3805 0.1UF 20% 10V CERM 402
C3806 10UF 20% 10V CERM 805-2

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

38 6 =PP5V_S0_PATA
DEVELOPMENT R3857 .499 1% 1/16W 402 MF-LF
IDE_DASP_L_DS
DEVELOPMENT LED3800
GREEN-3.6MCD 2.0X1.25MM-SM "IDE ACTIVE"

R3858 0 5% 1/16W MF-LF 402 NOTE: ???
R3859 6.2K 5% 1/10W MF-LF 402 PER ATA7 SPEC STUFFED PER LARRY

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

PLACE SHORT AT PACKAGE
SATA_RBIAS MAKE_BASE=TRUE
21 SATA_RBIAS_N OUT
21 SATA_RBIAS_P OUT
R3897 24.9 1/16W MF-LF 402 1%
PLACE < 0.5 IN FROM BALL OF U2100
0

SATA CONNECTOR

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

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

SATA_C_R2D_P	0.0047UF 402	C3803	21 SATA_C_R2D_C_P IN
SATA_C_R2D_N	0.0047UF 402	C3801	21 SATA_C_R2D_C_N IN
SATA_C_D2R_C_N	0.0047UF 402	C3800	21 SATA_C_D2R_N OUT
SATA_C_D2R_C_P	0.0047UF 402	C3802	21 SATA_C_D2R_P OUT

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

SATA DIFF PAIR GND VIAS
GV3801 HOLE-VIA-P5RP25
GV3802 HOLE-VIA-P5RP25
GV3803 HOLE-VIA-P5RP25
GV3804 HOLE-VIA-P5RP25
GV3805 HOLE-VIA-P5RP25
GV3806 HOLE-VIA-P5RP25
GV3807 HOLE-VIA-P5RP25
GV3808 HOLE-VIA-P5RP25
0

SATA PORT 0 IS NOT USED

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

SMT NUTS FOR ODD ADAPTER

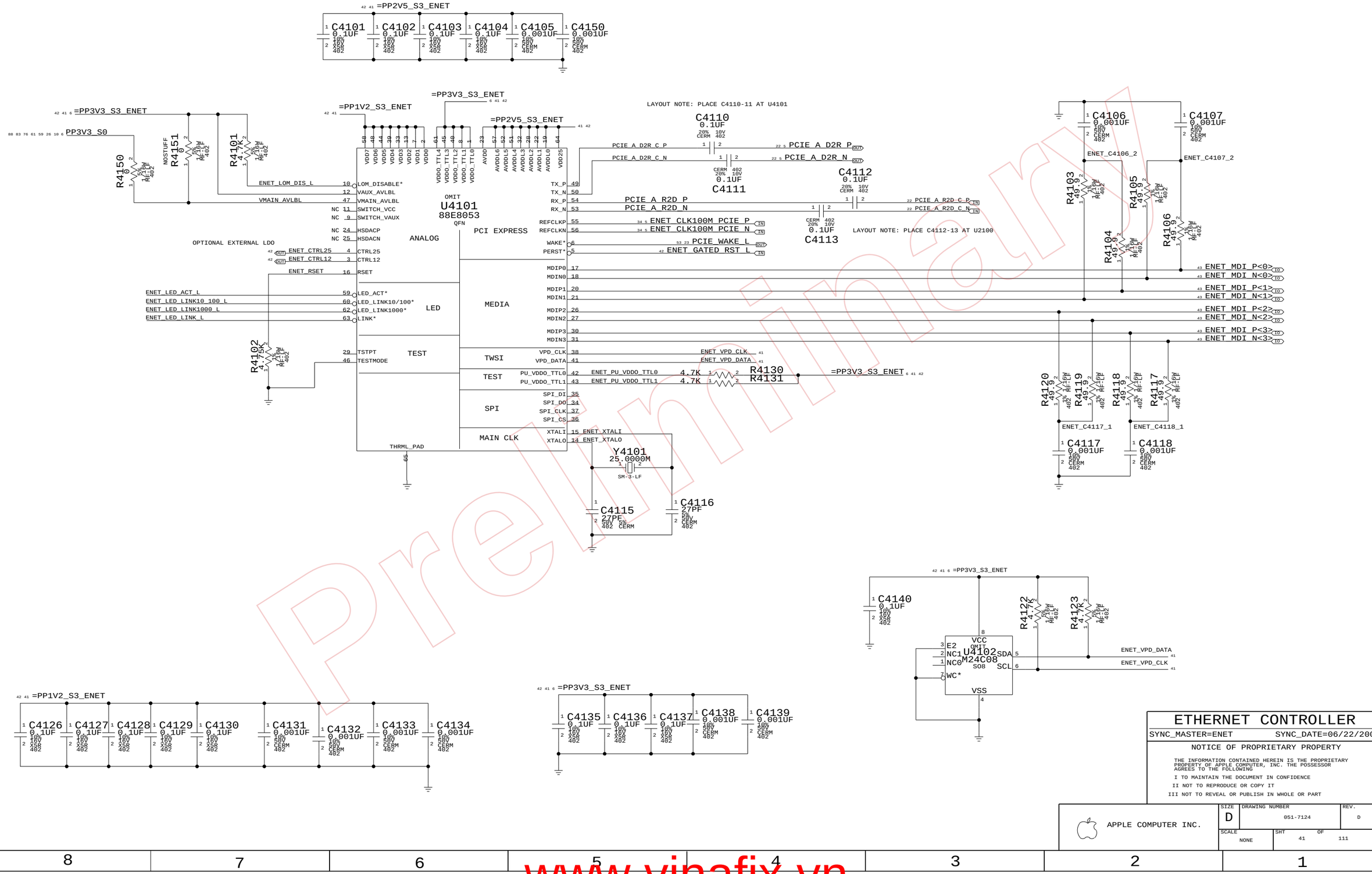
SDF3800
STDOFF-3.5OD1.35H-1.55-TH

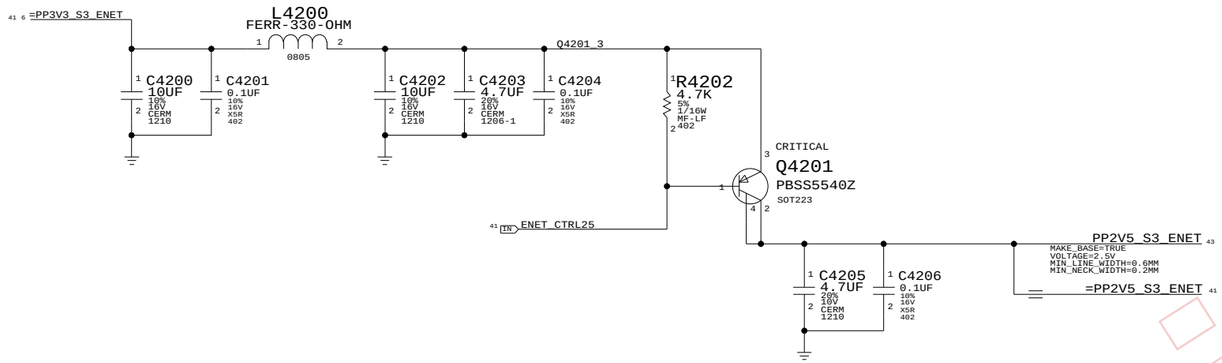
SDF3801
STDOFF-3.5OD1.35H-1.55-TH

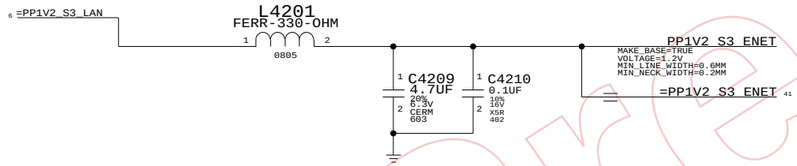
Disk Connectors

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 38 OF 111	



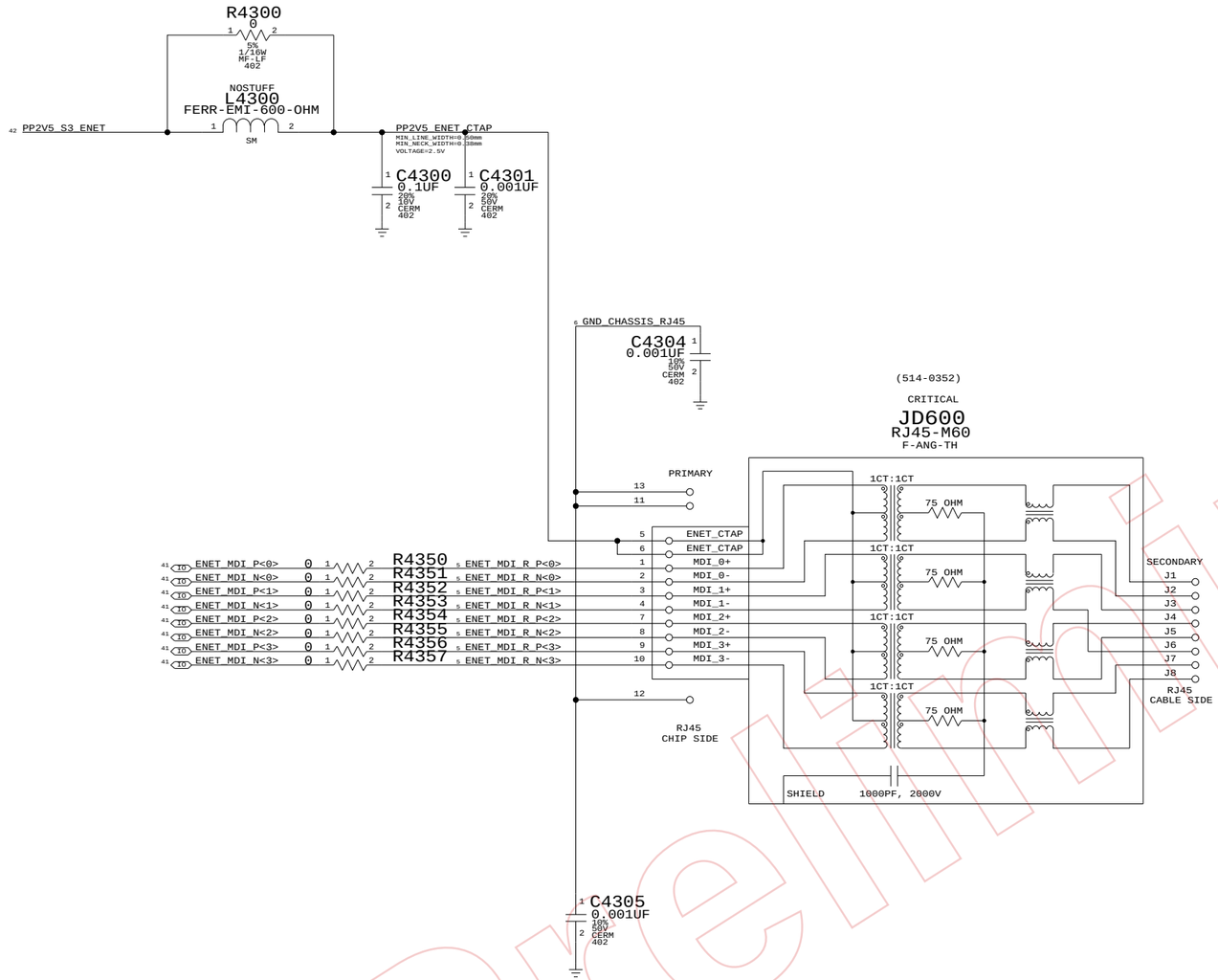




ETHERNET MISC

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE	SHT	OF
NONE	42	111



ETHERNET CONNECTOR

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D

SCALE	SHT	OF
NONE	43	111

NOSTUFF
R4411
0
1/16W 5% MF-LF 402
L4409
600-OHM-300MA
0402
=PP3V3_S5_FW
C4410
0.1UF
10V 20% CERM 402
PP3V3_S5_FW_VDDA
=PP3V3_S0_PCI
U4400
FW32306
TQFP
OMIT
PCI_AD<19>
R4403
0
R4416
10K
5% 1/16W MF-LF 402
T1: TP (?)
R4407
150
PCI_RST_L
PCI_RST_FW_L
THESE POWER PLANES SHOULD BE MOSTLY ISOLATED
??? CHECK YELLOW EDS
R4413
2.49K
1/16W 1% MF-LF 402
R4414
390K
1/16W 5% MF-LF 402
=PP12V_S5_FW_PHY
R4409
10K
=PP3V3_S5_FW
R4453
R4454
R4455
R4450
R4451
R4452
R4402
10K
C4401
27PF
50V 5% 402 CERM
CRITICAL
Y4400
24.576M
HC49-USMD
C4412
27PF
50V 5% 402 CERM
R4410
412
1% 1/16W MF-LF 402
C4402
0.1UF
10V 20% CERM 402
R4412
510K
1/16W 5% MF-LF 402

FW: FW323-06		
SYNC_MASTER=N/A	SYNC_DATE=N/A	

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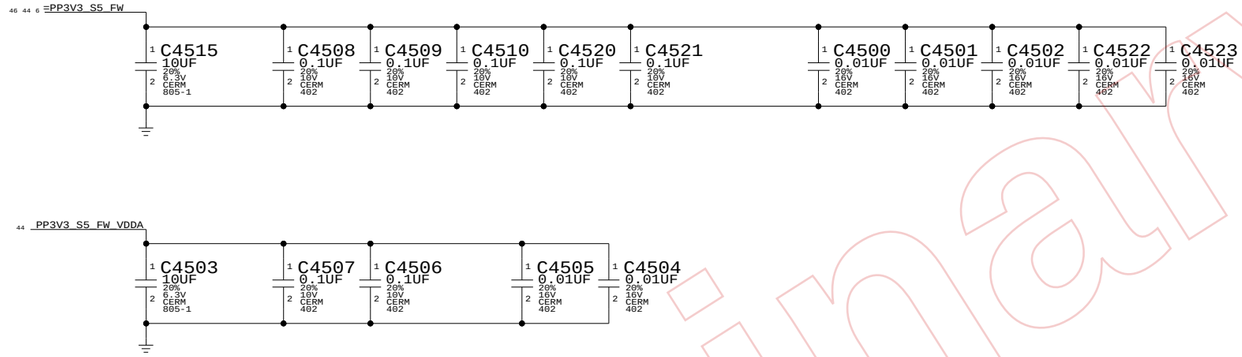
II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

APPLE COMPUTER INC.	SIZE D	DRAWING NUMBER 051-7124	REV. D
	SCALE NONE	SHT 44 OF 111	



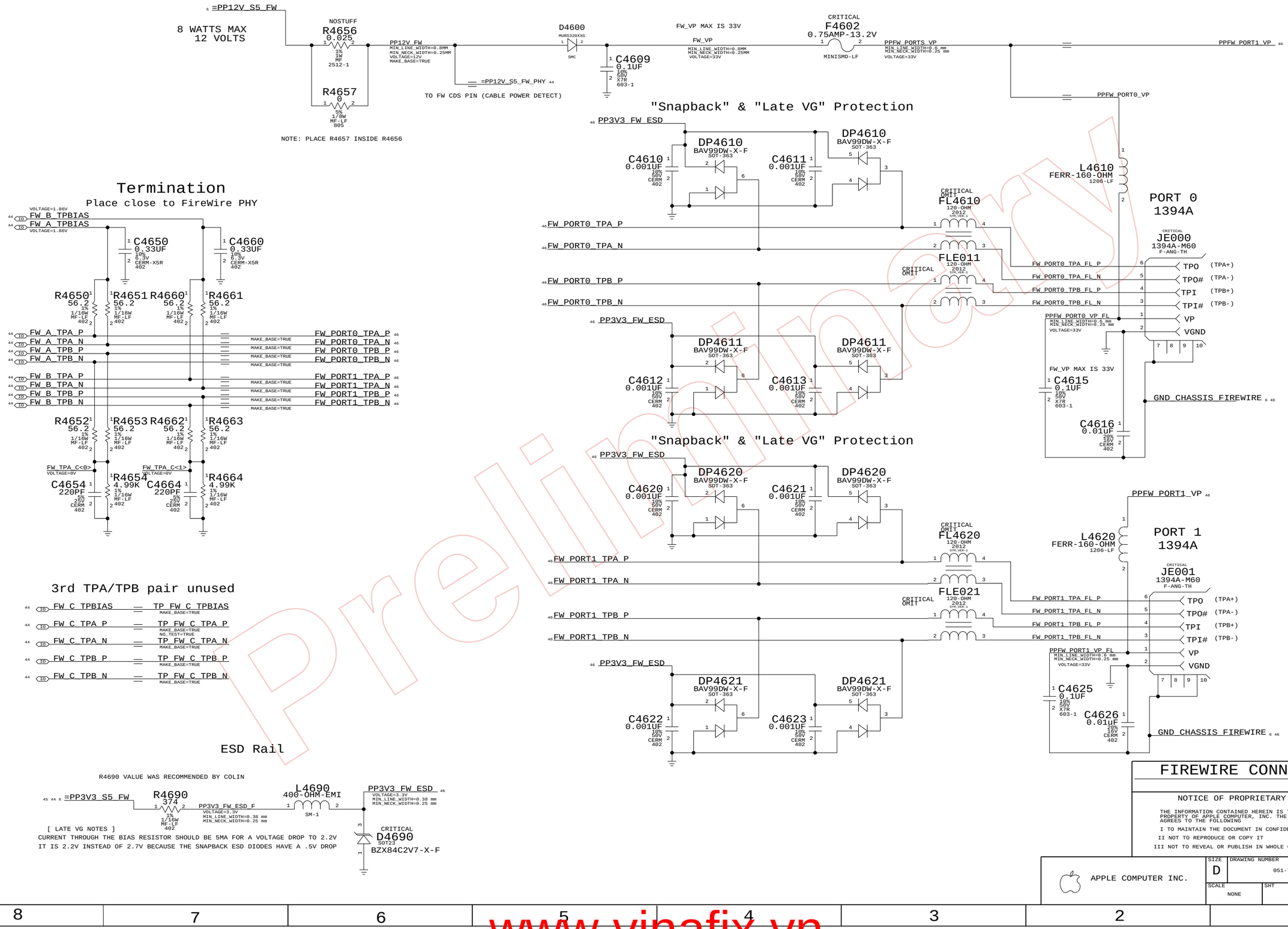
FW: DECAPS

SYNC_MASTER=N/A SYNC_DATE=N/A

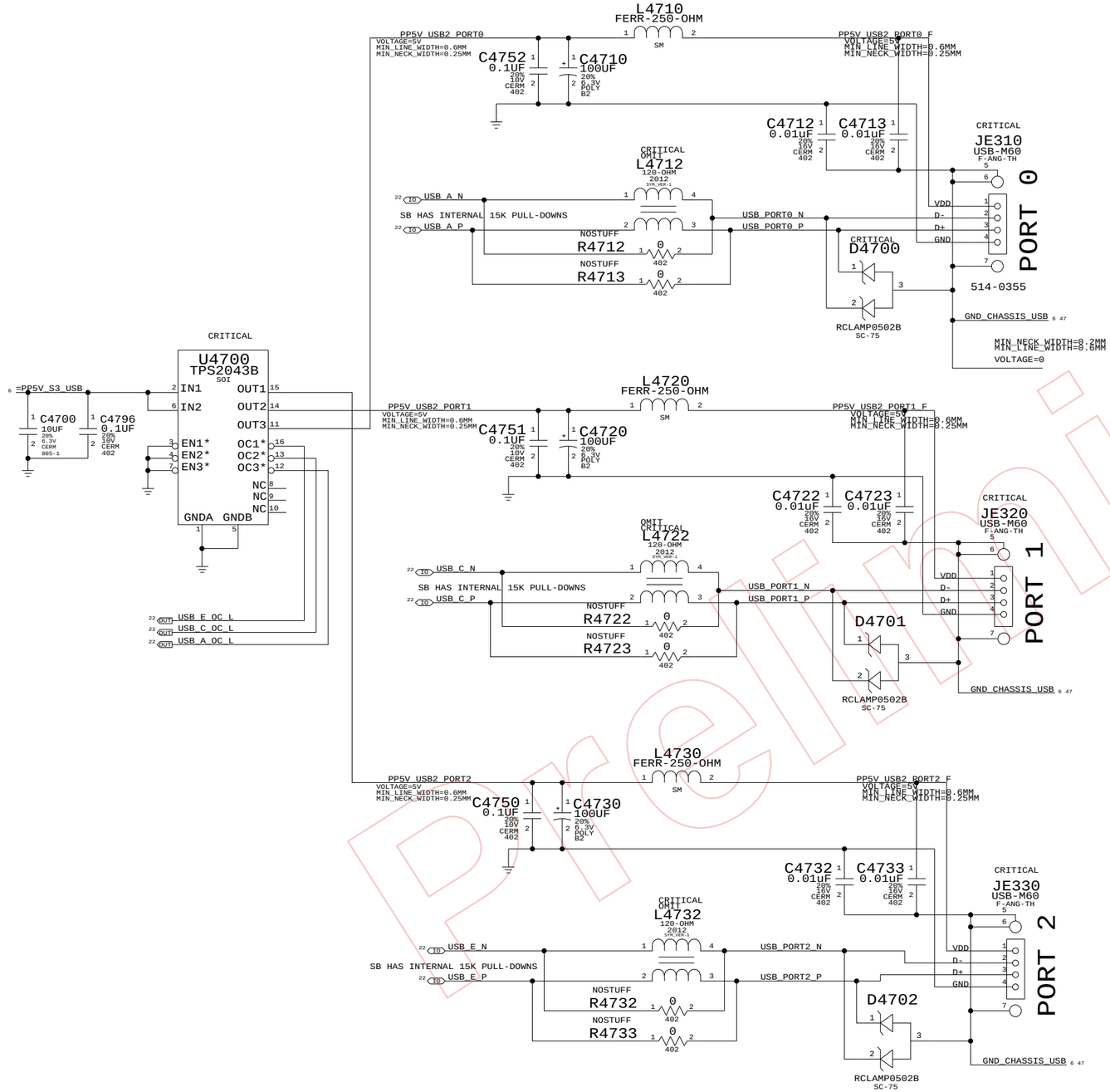
APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D

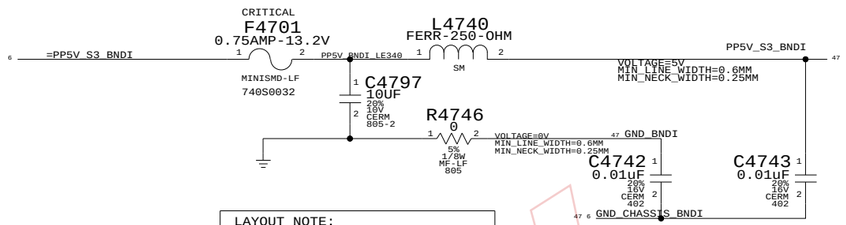
SCALE	SHT
NONE	45 OF 111



External USB Ports

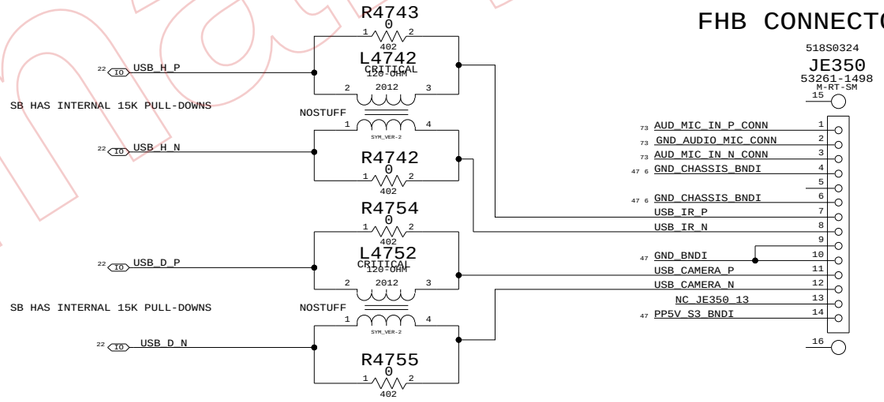


PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
514-0355	3	USB RECEPTACLE,4P,RIBLESS	JE310,JE320,JE330	CRITICAL	20_INCH_LCD

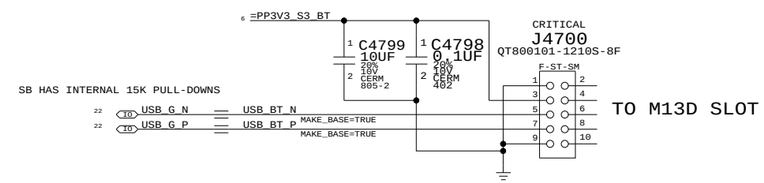


LAYOUT NOTE:
PLACE C4743, C4797 & L4740 NEAR JE350 PIN 14 IN THE ORDER LISTED, AND NOT ON BOTH SIDES OF THE PIN.

PLACE C4742 CLOSED TO JE350.



BLUETOOTH



NOTE: STANDOFFS FOR J4700

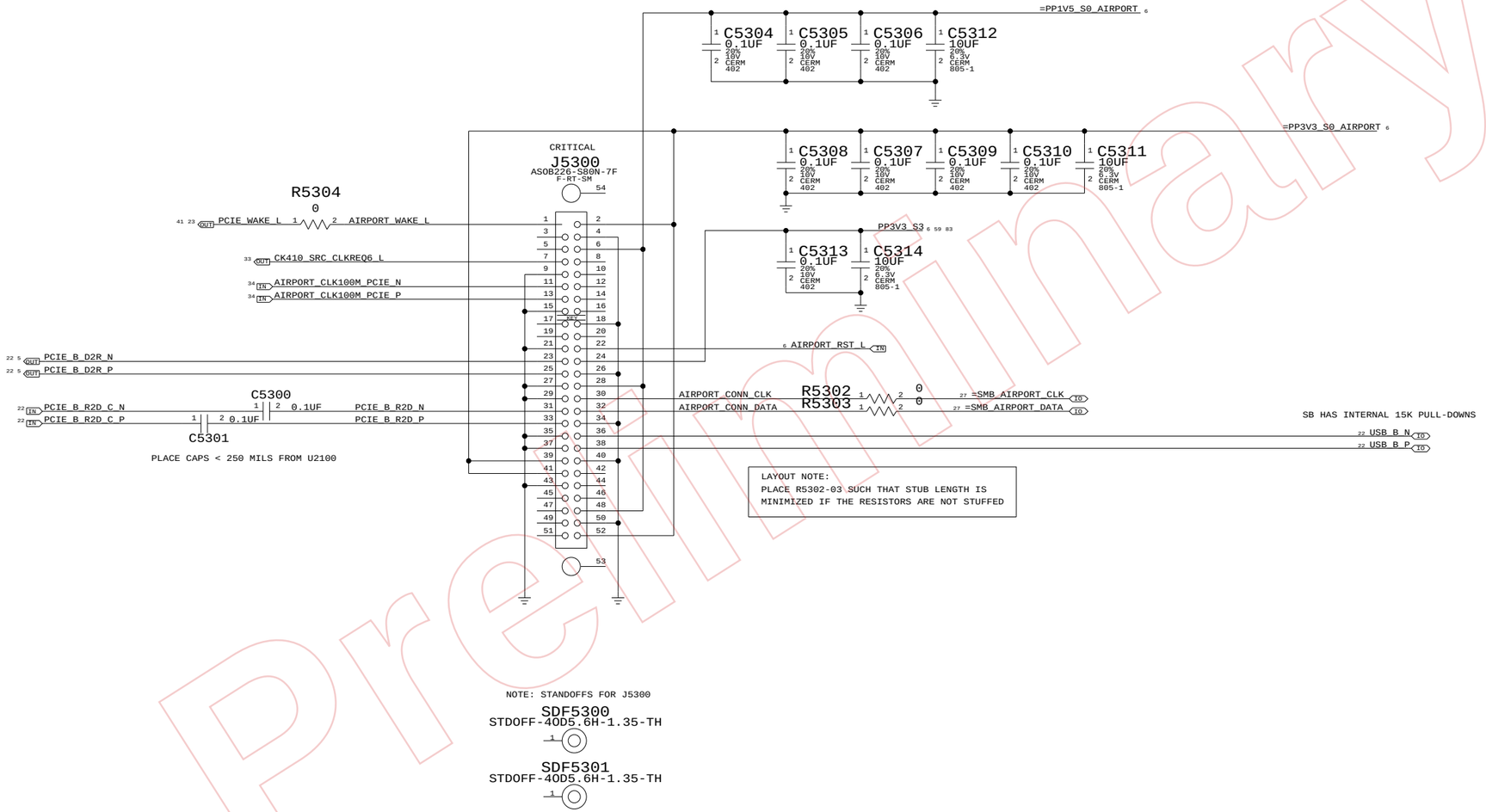
SDF4700
STDOFF-40D4.5H-1.35-TH

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

USB Device Interfaces

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 47 OF 111	



AIRPORT CONN

SYNC_MASTER=N/A SYNC_DATE=N/A

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D

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

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 54 OF 111	

3.3V AND 2.5V S5 REGULATOR

2.5V S5
POWER BUDGET
NB=0.142A
MS5=0.745A
TOTAL=0.887A

3.3V S5
POWER BUDGET
3.3V S0=1.755A
MISC=2.470A
MS5=2.100A
3.3V S5=0.296A
TOTAL=5.686A

PP12V_S5
=PP3V3_S5_2V5_LDO
PP2V5_S5 2.50V NOMINAL
PP3V3_S5 3.35V NOMINAL
SYS_POWERFAIL_L

C5792 1UF 10% 25V X5R 603
C5700 1UF 10% 6.3V CERM 402
C5720 22UF 20% 6.3V X5R 805
C5723 1000PF 10% 25V X7R 402
C5725 10UF 20% 6.3V CERM 805-1
C5722 10UF 20% 6.3V CERM 805-1
C5721 10UF 20% 6.3V CERM 805-1
C5726 10UF 20% 6.3V CERM 805-1
C5724 1000PF 10% 25V X7R 402 NOSTUFF
C5753 10UF 10% 16V CERM 1210
C5711 10UF 10% 16V CERM 1210
C5799 10UF 10% 16V CERM 1210
C5798 10UF 10% 16V CERM 1210
C5797 10UF 10% 16V CERM 1210
C5715 1800UF 20% 6.3V ELEC TH-NZJ-LF CRITICAL
C5714 10UF 20% 6.3V CERM 805-1
C5713 10UF 20% 6.3V CERM 805-1
C5701 0.1UF 20% 25V CERM 603
C5702 1000PF 10% 25V X7R 402
C5708 0.047UF 10% 16V CERM 402
C5706 560PF 10% 50V CERM 402
C5709 1000PF 5% 50V CERM 1206
C5707 0.01UF 10% 16V CERM 402
C5703 4.7UF 20% 6.3V CERM 603

R5705 10 1% 1/16W MF-LF 402
R5720 1K 1% 1/16W MF-LF 402
R5721 2.7K 5% 1/16W MF-LF 402
R5722 470 1% 1/16W MF-LF 402
R5740 2.2 5% 1/16W MF-LF 402
R5704 8.06K 1% 1/16W MF-LF 402
R5702 5.11 1% 1/4W MF-LF 1206
R5799 22 5% 1/16W MF-LF 402
R5703 1.24K 1% 1/16W MF-LF 402 (R2)
R5701 392 1% 1/16W MF-LF 402 (R1)
R5792 39.2K 1% 1/16W MF-LF 402

L5703 3.3UH IHLP CRITICAL OMIT

U5700 ISL6549 QFN
VCC12 VCC5 PVCC5 LDO_DR LDO_FB FS_DIS DGND AGND PGND
UGATE BOOT PHASE LGATE FB COMP THRML_PAD

Q5703 IRF1902PBF SO-8 CRITICAL
Q5700 IRLR7807Z TO-252AA CRITICAL
Q5701 IRLR7807Z TO-252AA CRITICAL
Q5702 2N7002 SOT23-LF NOSTUFF
D5700 CTLSH3-30M833 TLM833 NOSTUFF

3V3REG_VCC5
3V3REG_PVCC5
3V3REG_LDO_DR
2V5_LDODR_C
3V3REG_LDO_FB
3V3REG_FS_DIS
3V3REG_UGATE
3V3REG_BOOT
3V3REG_BOOT_R
3V3REG_SWITCHNODE
3V3REG_LGATE
3V3REG_FB
3V3REG_COMP
3V3REG_COMP_R
3V3REG_SNUB
3V3REG_FB_R
MIN_LINE_WIDTH=0.6MM MIN_NECK_WIDTH=0.25MM

VOUT=VREF*(1+R2/R1)
VREF = 0.784V MIN 0.800V TYP 0.816V MAX

3.3V DC/DC 2.5V

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
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SCALE: NONE	SHT 57 OF 111	

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

OMIT
U5800
SMC_H8S2116
BGA
(1 OF 4)

PM_LAN_ENABLE	B12	P10	P60/KIN0*	L13	59	SMC_PM_G2_EN
SMC_RSTGATE_L	C13	P11	P61/KIN1*	L14	59	SMC_ADAPTER_EN
ALL_SYS_PWRGD	A15	P12	P62/KIN2*	L15	22	SPI_ARB
RSMRST_PWRGD	B14	P13	P63/KIN3*	K12	63 22	SPI_SCLK
SMC_SB_NMI	B15	P14	P64/KIN4*	K13	63 22	SPI_SI
PM_RSMRST_L	C14	P15	P65/KIN5*	K14	63 22	SPI_SO
IMVP_VR_ON	D12	P16	P66/IRQ6*/KIN6*	J12	59	SMC_PROCHOT_3_3_L
PM_PWRBTN_L	C15	P17	P67/IRQ7*/KIN7*	J13	59	SMC_CPU_INIT_3_3_L
SMC_P20	D13	P20	P70/AN0	N12	76	SMC_CPU_ISENSE
SMC_P21	D14	P21	P71/AN1	R13	76	SMC_CPU_VSENSE
SMC_P22	D15	P22	P72/AN2	P13	59	SMC_GPU_ISENSE
SMC_P23	E12	P23	P73/AN3	R14	59	SMC_GPU_VSENSE
SMC_BATT_TRICKLE_EN_L	E14	P24	P74/AN4	P14	76	SMC_DCIN_ISENSE
SMC_BATT_CHG_EN	E15	P25	P75/AN5	R15	76	SMC_PBUS_VSENSE
SMC_P26	E13	P26	P76/AN6	N13	59	SMC_BATT_ISENSE
SMC_P27	F14	P27	P77/AN7	P15	59	SMC_FWIRE_ISENSE
LPC_AD<0>	D9	P30/LAD0	P80/PME*	C7	23	SMC_WAKE_SCI_L
LPC_AD<1>	C9	P31/LAD1	P81/GA20	A7	59	SMC_TPM_GPIO
LPC_AD<2>	A9	P32/LAD2	P82/CLKRUN*	B7	67 60 44 23 5	PM_CLKRUN_L
LPC_AD<3>	B9	P33/LAD3	P83/LPCPD*	D6	67 60 23	PM_SUS_STAT_L
LPC_FRAME_L	D8	P34/LFRAME*	P84/IRQ3*/TXD1	C6	59	SC_TX_L
SMC_LRESET_L	C8	P35/LRESET*	P85/IRQ4*/RXD1	A6	59	SC_RX_L
PCI_CLK_SMC	A8	P36/LCLK	P86/IRQ5*/SCK1/SCL1	B6	59	SMB_BSB_CLK
INT_SERIRQ	D7	P37/SERIRQ	P90/IRQ2*	K4	59	SMC_ONOFF_L
SMC_XDP_TMS_L	A5	P40/TMI0	P91/IRQ1*	J2	59	SMC_BC_ACOK
SMC_SYS_LED_16B	B5	P41/TMO0	P92/IRQ0*	J1	59	SMC_BS_ALRT_L
SMB_BSB_DATA	D5	P42/SDA1	P93/IRQ12*	J3	88 79 77 23	PM_SLP_S3_L
SMC_TPM_PP	C3	P43/TMI1/EXSCK1	P94/IRQ13*	J4	77 23	PM_SLP_S4_L
SMC_XDP_TRST_L	B1	P44/TMO1	P95/IRQ14*	H2	23	PM_SLP_S5_L
SMC_XDP_TCK	C2	P45	P96/EXCL	H1	59	SMC_SUS_CLK
SMC_SYS_LED	D3	P46/PWX0/PWM0	P97/IRQ15*/SDA0	G2	59	SMC_SMB_0_DATA
SMC_SYS_KBDLED	C1	P47/PWX1/PWM1				
SMC_TX_L	G1	P50				
SMC_RX_L	G4	P51				
SMC_SMB_0_CLK	F2	P52/SCL0				

OMIT
U5800
SMC_H8S2116
BGA
(2 OF 4)

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

OMIT
U5800
SMC_H8S2116
BGA
(4 OF 4)

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
VCL IS INTERNAL RAIL
C5807 0.47UF 10% 6.3V CERM-X5R 402

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

59 58 6 =PP3V3_S5_SMC
R5899 4.7 5% 1/10W 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

PP3V3_AVREF_SMC 59
59 58 6 =PP3V3_S5_SMC

OMIT
U5800
SMC_H8S2116
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AVCC1 N14
AVCC2 N15
VCC1 P2
VCC2 P1
VCC3 J15
VCC4 A1
VCC5 F1
AVREF1 M14
AVREF2 M15

60 59 IN SMC_RST_L — RES* E3
59 SMC_XTAL — XTAL A2
59 SMC_EXTAL — EXTAL B2

MD1 E2 — SMC_MD1 60
MD2 K1 — KBC_MDE
NMI F4 — SMC_NMI 60 IN
ETRST* L1 — SMC_TRST_L IN

VSS: D1 P4 R4 F12 F13 B13 A13 A4 B4 D2
AVSS P12 R12

R5809 10K 5% 1/16W MF-LF 2402
R5801 10K 5% 1/16W MF-LF 2402
NOSTUFF
R5898 10K 5% 1/16W MF-LF 2402
R5803 0 5% 1/16W MF-LF 2402
R5802 10K 5% 1/16W MF-LF 2402

XW5800 SM
GND_SMC_AVSS 58 59 76 85

SMC

SYNC_MASTER=N/A SYNC_DATE=N/A

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APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 58 OF 111	

SMC RESET BUTTON

=PP3V3_S5_SMC

C5901 0.1uF 20% 10V CERM 402

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

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

SMC_MANUAL_RST_L

DEVELOPMENT SW5900 SPST SM-LF

C5900 0.01UF 10% 16V CERM 402

SMC_RST_L (OUT)

AMBIENT LIGHT SENSOR CONNECTOR

(REF DES PRESERVED FOR PLACEMENT PURPOSE)

I2C ADDR:72(1001000)

CRITICAL J2901 53398-0476 F-ST-SM

PP3V3_S3

I2C_ALS_SDA

I2C_ALS_SCL

518S0328

POWER BUTTON HEADER

(REF DES PRESERVED FOR PLACEMENT PURPOSE)

CRITICAL J2903 53398-0276 M-ST-SM

POWER_BUTTON_L

518S0327

SYS POWER BUTTON

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

SW5901 SPST SM-LF

DEVELOPMENT

SMC_ONOFF_L (OUT)

C5902 0.1UF 20% 10V CERM 402

GENERATE 0.48V MID-VREF

=PP3V3_S0_FAN

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

P0V48_SMC_LSREF

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

SMC CRYSTAL

LAYOUT NOTE: PLACE CAPACITORS BETWEEN CRYSTAL AND SMC/TPM

C5800 22PF CERM 5% 50V 402

C5801 22PF CERM 5% 50V 402

OMIT Y5800 20.000M SM-3

SMC_XTAL

SMC_EXTAL

TPM CRYSTAL

LEMENU C6704 15PF 5% 50V CERM 402

LEMENU C6705 15PF 402 50V 5% CERM

CRITICAL Y6700 LEMENU 32.768K SM-LF

TPM_XTALI

TPM_XTALO

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

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

CPU 1.05V -> SMC 3.3V SHIFTER

=PP3V3_S0_FAN

PP3V3_S5

C5903 0.1UF 20% 10V CERM 402

U5999 LM393A SOI-1-LF

P0V48_SMC_LSREF

CPU_PROCHOT_L

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

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

SMC_PROCHOT_3_3_L

SMC_CPU_RESET_3_3_L

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

SMC_XDP_TCK_3_3

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

SMC_XDP_TDO_3_3_L

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

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

SMC ALIASES, PULLUPS, AND TESTPOINTS

NO-CONNECT UNUSED PINS

SMC_P20 — NC_SMC_P20

SMC_P21 — NC_SMC_P21

SMC_P22 — NC_SMC_P22

SMC_P23 — NC_SMC_P23

SMC_P26 — NC_SMC_P26

SMC_P27 — NC_SMC_P27

SMC_BATT_ISET — NC_SMC_BATT_ISET

SMC_BATT_VSET — NC_SMC_BATT_VSET

SMC_SYS_ISET — NC_SMC_SYS_ISET

SMC_SYS_VSET — NC_SMC_SYS_VSET

SMC_BATT_TRICKLE_EN_L — NC_SMC_BATT_TRICKLE_EN_L

SMC_BATT_CHG_EN — NC_SMC_BATT_CHG_EN

SMC_ANALOG_ID — NC_SMC_ANALOG_ID

ALS_GAIN — NC_ALS_GAIN

(MAKE_BASE=TRUE)

DEBUG TESTPOINTS ON SELECTED INPUTS/OUTPUTS

SMC_SYS_KBDLED — TP_SMC_SYS_KBDLED

SMC_PF0 — TP_SMC_PF0

SMC_PM_G2_EN — TP_PM_G2_EN

SMC_ADAPTER_EN — TP_SMC_ADAPTER_EN

ALS_LEFT — TP_ALS_LEFT

ALS_RIGHT — TP_ALS_RIGHT

SMC_PF1 — TP_SMC_PF1

SMC_PB7 — TP_SMC_PB7

(MAKE_BASE=TRUE, FUNC_TEST=TRUE)

SMC_EXCARD_PWR_EN — TP_SMC_EXCARD_PWR_EN

SMC_PB7 — TP_SMC_PB7

SMC_FAN_3_TACH — TP_SMC_FAN_3_TACH

SMC_FAN_3_CTL — TP_SMC_FAN_3_CTL

TPM RESET PULLUP

LEMENU R5827 10K — PP3V3_TPM_3VSB — SMC_TPM_RESET_L

WIRE-OR DIMM OVERTEMP TO SMC

DIMM_OVERTEMP_L — PM_EXTTS_L<0>

SENSE GPU REGULATOR OUTPUT CURRENT

SMC_GPU_ISENSE — GPUVCORE_IOUT

WIRE SMC TO SB PINS

SMC_CPU_INIT_3_3_L — FWH_INIT_L

SMC_SUS_CLK — SUS_CLK_SB

NC OR PULLDOWN UNUSED ANALOG SENSE PINS

SMS_X_AXIS — NC_SMS_X_AXIS

SMS_Y_AXIS — NC_SMS_Y_AXIS

SMS_Z_AXIS — NC_SMS_Z_AXIS

SMC_NB_ISENSE — NC_SMC_NB_ISENSE

SMC_MEM_ISENSE — NC_SMC_MEM_ISENSE

SMC_BATT_ISENSE — UNUSED_SMC_SENSE

SMC_FWIRE_ISENSE — UNUSED_SMC_SENSE

UNUSED_SMC_SENSE — 10K R5924

PULLDOWN UNUSED ANALOG SENSE PINS ON PORT 7.

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

(5% 1/16W MF-LF 402)

SELECT TPM GPIO

SC_RX_L — R5922 (DEVELOPMENT_SMC) — SMC_RX_L

SC_TX_L — R5923 (DEVELOPMENT_SMC) — SMC_TX_L

SMC_TPM_GPIO — R5920 — TPM_GPIO1, R5921 — TPM_GPIO2

SMC_TPM_PP — R5995 0 — SMC_TPM_PP — TPM_PP

SENSE GPU VCORE

PP1V0R1V2_S0_GPU — R5919 4.53K — SMC_GPU_VSENSE

C5919 0.22UF 20% 6.3V X5R 402 — GND_SMC_AVSS

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 — SMC_SMB_0_CLK (TP_SMC_SMB_0_CLK)

10K R5913 — SMC_SMB_0_DATA (TP_SMC_SMB_0_DATA)

10K R5914 — SMB_BSA_CLK

10K R5915 — SMB_BSA_DATA

PULLUPS FOR SYSTEM STATE PINS

10K R5916 — SMC_LID

PULLDOWNS FOR SYSTEM STATE PINS

10K R5917 — SMC_CASE_OPEN

ALIAS SENSORS INTO SMC I2C BUSSES

SMB_B_S0_CLK — =I2C_HD_TEMP_SCL, =I2C_ODD_TEMP_SCL, =SMB_THRM_CLK, SMB_GPU_NB_THRM_CLK

SMB_B_S0_DATA — =I2C_HD_TEMP_SDA, =I2C_ODD_TEMP_SDA, =SMB_THRM_DATA, 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

PRECISION 3.3V AVREF FOR SMC

PP5V_S5

R5942 10K 5% 1/16W MF-LF 402

Q5910 NTR4101P SOT-23

SMC_REF_GATE2

SMC_REF_GATE1

R5941 10K 5% 1/16W MF-LF 402

Q5911 2N7002 SOT23-LF

C5943 1UF 10% 6.3V CERM 402

SMC_REF_IN

=PP3V3_S5_SMC

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

CRITICAL U5940 REF3133 SOT23-3 (IN, GND, TI OUT)

C5940 0.47UF 10% 6.3V CERM-X5R 402

C5942 10UF 20% 6.3V CERM 805-1

C5941 0.01UF 10% 16V CERM 402

PP3V3_AVREF_SMC

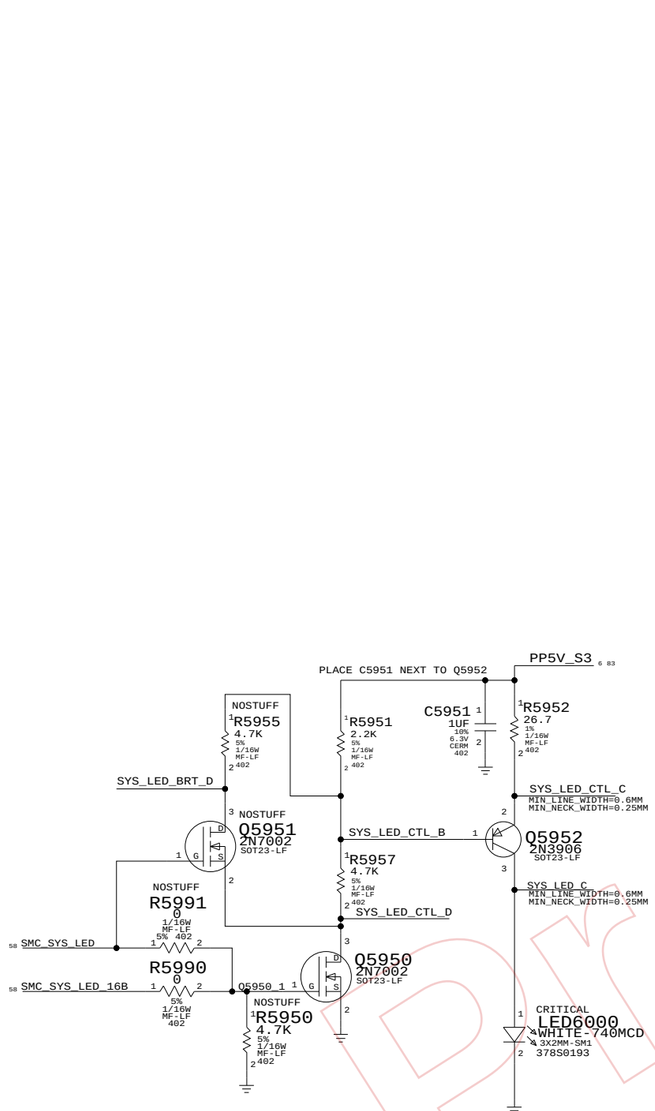
GND_SMC_AVSS

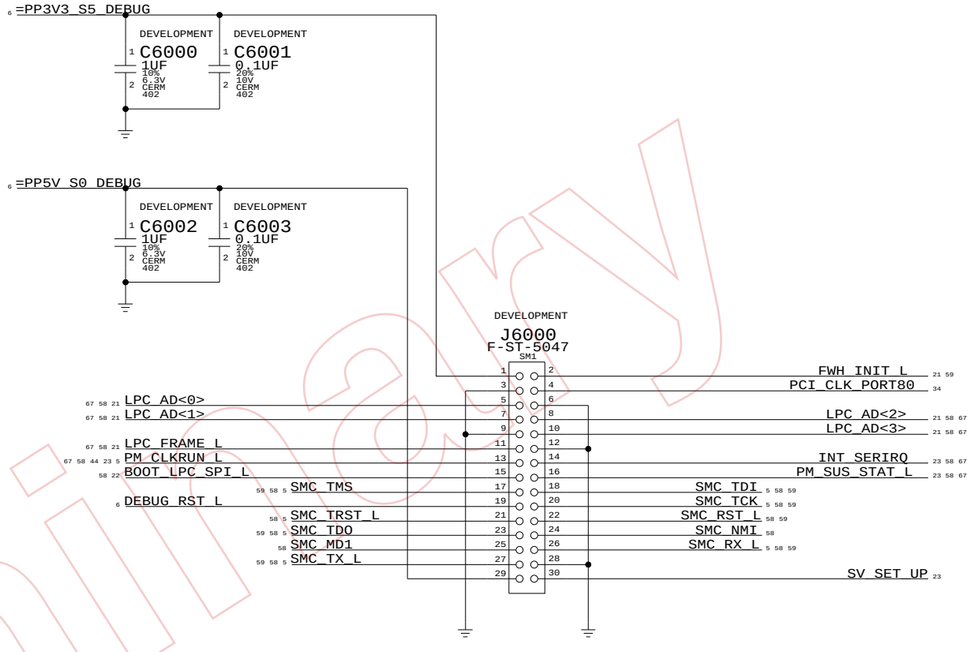
TURN ON 3.3V VREF ONLY AFTER SMC 3.3V RAIL AND AVCC RAIL IS UP.

SMC & TPM SUPPORT

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 59 OF 111	



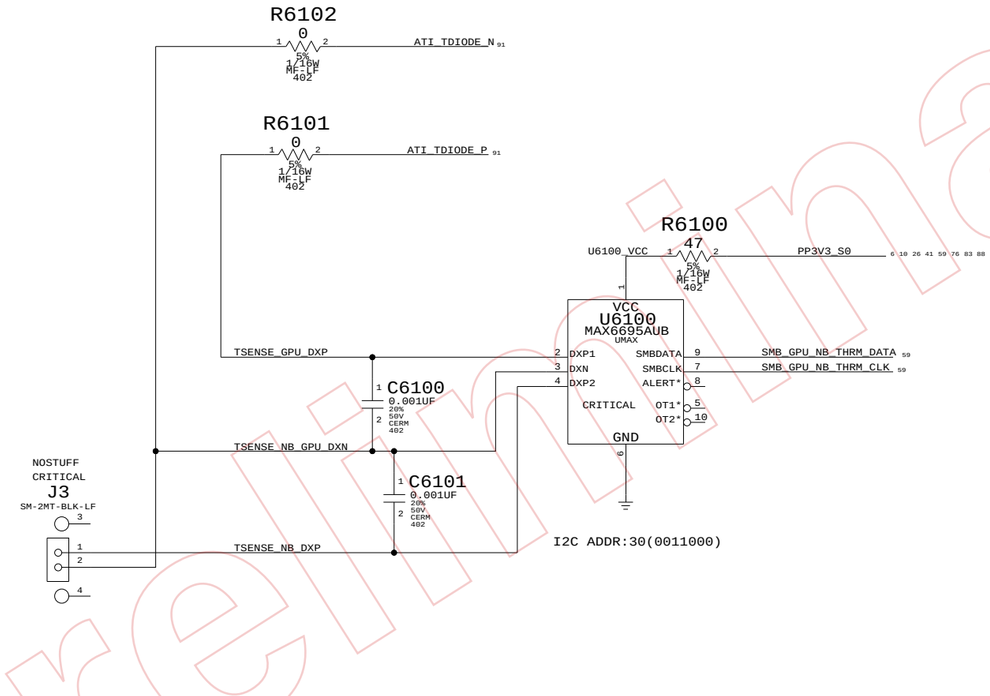


LPC+ CONN

SYNC_MASTER=N/A SYNC_DATE=N/A

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 60 OF 111	



GPU+NB THERMAL

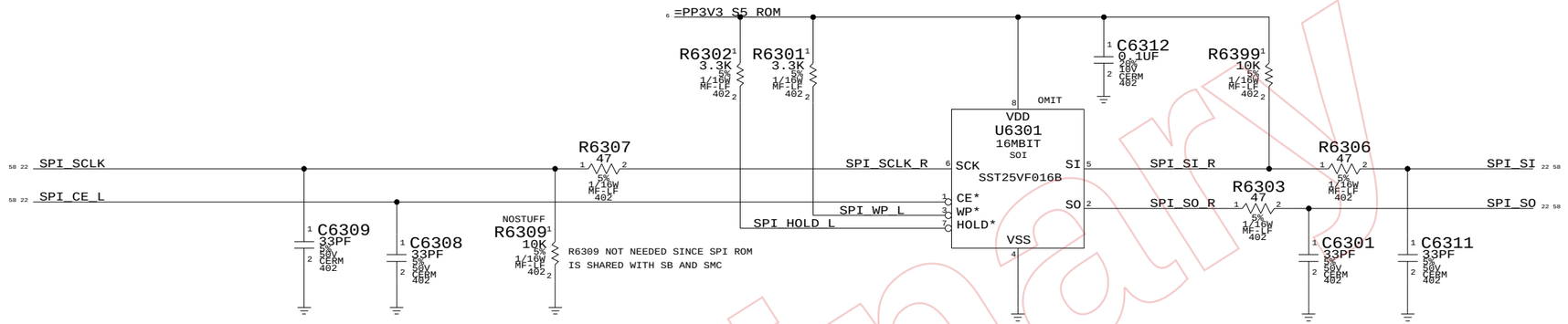
SYNC_MASTER=N/A SYNC_DATE=N/A

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D

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	051-7124	D

SCALE	SHT	OF
NONE	63	111

FAN 0

66 65 6 =PP12V_S0_FAN

79 77 76 66 65 59 57 26 6 5 83 81 80 PP3V3_S5

R6506 10K 5% 1/16W MF-LF 402

R6502 1.5K 5% 1/4W MF-LF 1206

R6503 1.5K 5% 1/8W MF-LF 805

NOSTUFF C6500 0.1UF 20% 25V CERM 603

R6505 3.9K 5% 1/8W MF-LF 805

F0_VOLTAGE8R5

F0_GATESLOWDN

Q6500 NTHS5443T1 1206A-03-LF

ODD FAN

58 IN SMC_FAN_0_CTL

FAN_RPM0

C6501 0.47UF 10% 16V X7R 805

Q6502 2N7002 SOT23-LF

F0_RCFEEDBK

MIN_LINE_WIDTH=0.5MM MIN_NECK_WIDTH=0.25MM

R6504 0 5% 1/8W MF-LF 805

FAN_0_OUT

NOSTUFF D6502 SMB

B130LBT01XF

MIN_NECK_WIDTH=0.25MM MIN_LINE_WIDTH=0.5MM

FAN_0_PWR

CRITICAL J6500 53261-0498 M-RT-SM

MOTOR CONTROL

TACH

GND

12V DC

518S0193

NOSTUFF R6512 1.0K 5% 1/8W MF-LF 805

D6500 MMBD914XXG SOT23

R6515 0 5% 1/8W MF-LF 805

CRITICAL C6504 120UF 20% 16V ELEC 6.3X11-TH-LF1

66 65 59 6 =PP3V3_S0_FAN

R6500 10K 5% 1/16W MF-LF 402

58 OUT SMC_FAN_0_TACH

R6599 47K 5% 1/16W MF-LF 402

FAN_TACH0

NOTE: ADDED TO PROTECT SMC

FAN 1

66 65 6 =PP12V_S0_FAN

79 77 76 66 65 59 57 26 6 5 83 81 80 PP3V3_S5

R6511 10K 5% 1/16W MF-LF 402

R6510 1.5K 5% 1/4W MF-LF 1206

R6507 1.5K 5% 1/8W MF-LF 805

NOSTUFF C6502 0.1UF 20% 25V CERM 603

R6509 3.9K 5% 1/8W MF-LF 805

F1_VOLTAGE8R5

F1_GATESLOWDN

Q6503 NTHS5443T1 1206A-03-LF

CPU FAN

58 IN SMC_FAN_2_CTL

FAN_RPM1

C6503 0.47UF 10% 16V X7R 805

Q6505 2N7002 SOT23-LF

F1_RCFEEDBK

MIN_LINE_WIDTH=0.5MM MIN_NECK_WIDTH=0.25MM

R6508 0 5% 1/8W MF-LF 805

FAN_1_OUT

NOSTUFF D6503 SMB

B130LBT01XF

MIN_LINE_WIDTH=0.5MM MIN_NECK_WIDTH=0.25MM

FAN_1_PWR

CRITICAL J6501 53261-0598 M-RT-SM

MOTOR CONTROL

TACH

GND

12V DC

518S0326

NOSTUFF R6513 1.0K 5% 1/8W MF-LF 805

D6501 MMBD914XXG SOT23

R6514 0 5% 1/8W MF-LF 805

CRITICAL C6505 120UF 20% 16V ELEC 6.3X11-TH-LF1

66 65 59 6 =PP3V3_S0_FAN

R6501 10K 5% 1/16W MF-LF 402

58 OUT SMC_FAN_2_TACH

R6597 47K 5% 1/16W MF-LF 402

R6597_2

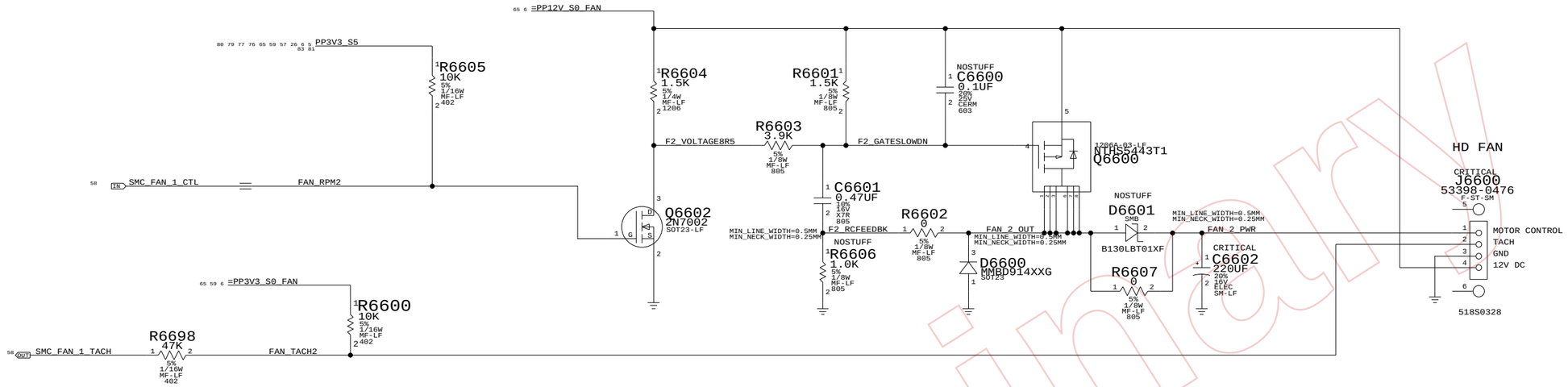
Fan 0, 1 & System Temp

APPLE COMPUTER INC.

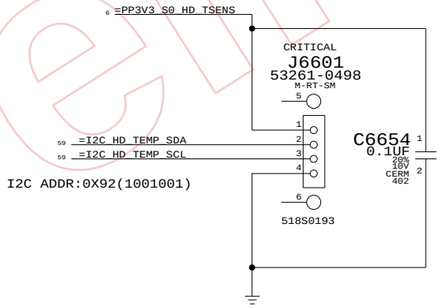
SIZE D | DRAWING NUMBER 051-7124 | REV. D

SCALE NONE | SHT 65 OF 111

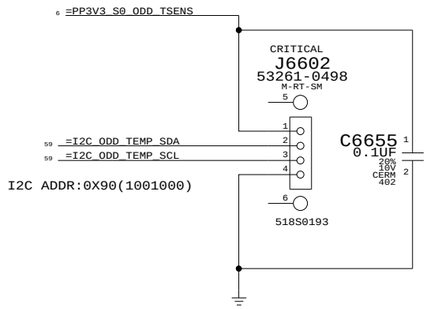
FAN 2



HD TEMP SENSOR



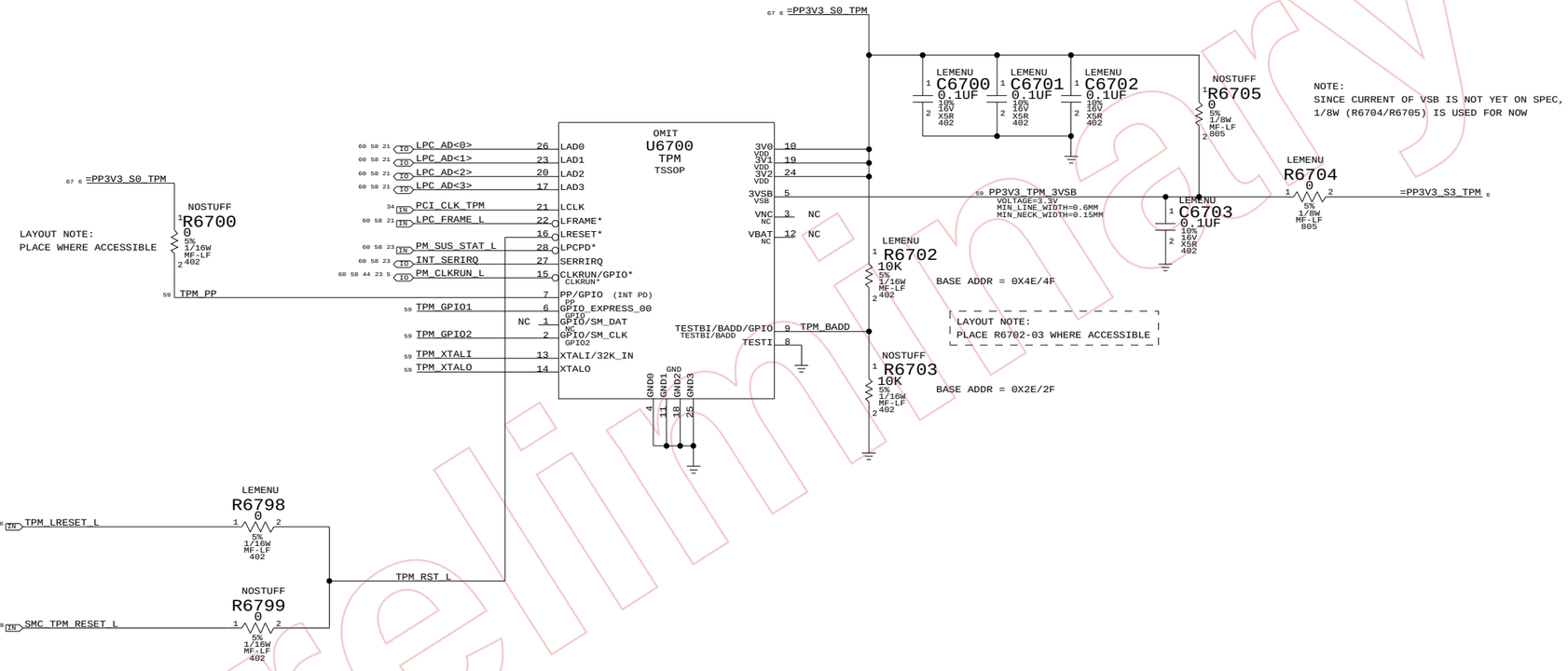
ODD TEMP SENSOR



Fan 2 & HD Temp

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 66 OF 111	



TPM

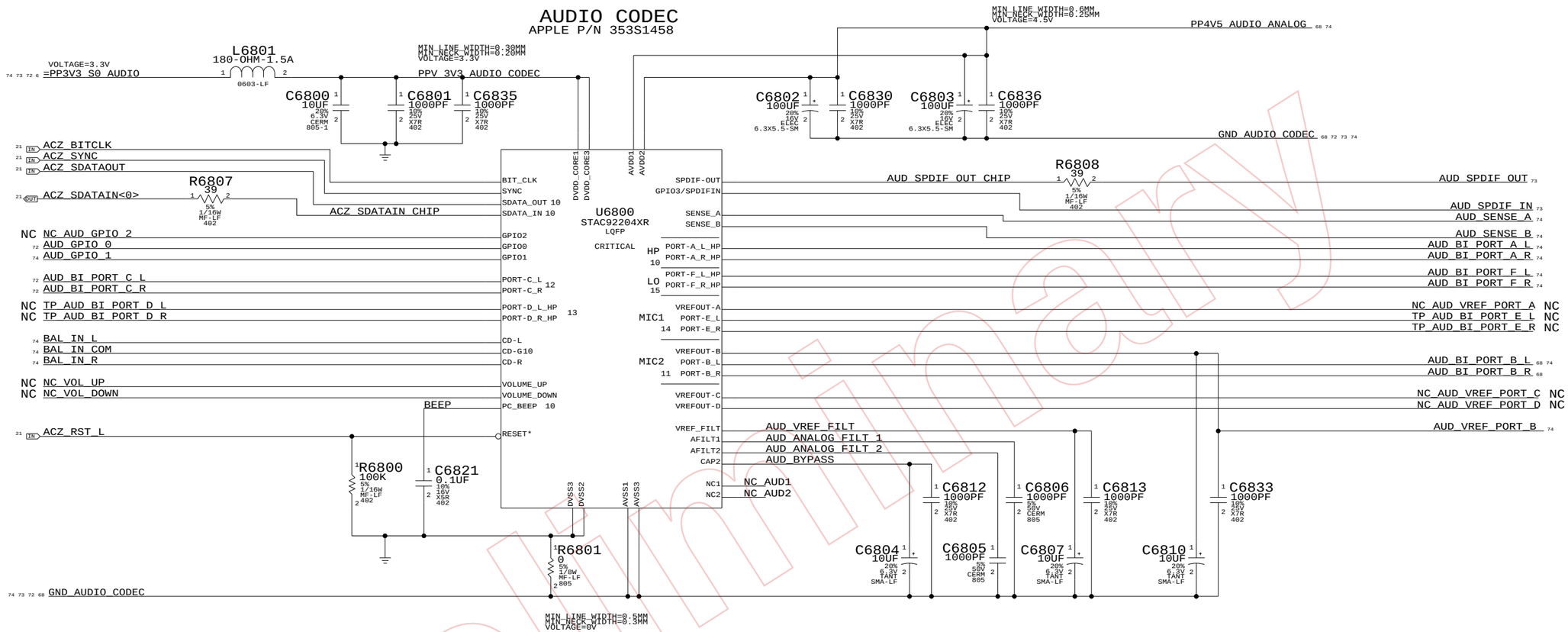
SYNC_MASTER=N/A SYNC_DATE=N/A

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D

SCALE: NONE SHT 67 OF 111

AUDIO CODEC
APPLE P/N 353S1458



AUD_BI_PORT_B_L ═══ AUD_BI_PORT_B_R

MIC INPUT TO BOTH L&R

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
126S0091	126S0092		C6802,C6803	FACTORY SHORTAGE
126S0091	126S0092		C7403,C7404	FACTORY SHORTAGE
353S1345	353S1458		U6800	FACTORY SHORTAGE

MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.25MM
VOLTAGE=5V
=PP4V5_S0_AUDIO_ANALOG

L6802
180-OHM-1.5A
0603-LF

PP4V5_AUDIO_ANALOG

AUDIO: CODEC

SYNC_MASTER=AUDIO SYNC_DATE=02/23/2006

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APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 68 OF 111	

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

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% 16V CERM 805
C7219 0.1UF 20% 16V CERM 603
C7203 10UF 10% 16V CERM 1210
C7223 10UF 10% 16V CERM 1210

GND_AUDIO_SPKRAMP_PLANE

=PP3V3_S0_AUDIO

AUD_BI_PORT_C_L
AUD_BI_PORT_C_R
GND_AUDIO_CODEC

L7205 1K-OHM-100MA 0603
L7206 1K-OHM-100MA 0603
L7207 1K-OHM-100MA 0603
L7208 1K-OHM-100MA 0603

AUDSAMPINLN
AUDSAMPINLP
AUDSAMPINRP
AUDSAMPINRN

C7204 0.47UF 10% 16V X7R 805
C7205 0.47UF 10% 16V X7R 805
C7206 0.47UF 10% 16V X7R 805
C7207 0.47UF 10% 16V X7R 805

C7215 100PF 5% 50V CERM 402
C7216 100PF 5% 50V CERM 402

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

AUD_SAMP_INL_N
AUD_SAMP_INL_P
AUD_SAMP_INR_P
AUD_SAMP_INR_N
AUD_SAMP_G1
AUD_SAMP_G2
AUD_SAMP_FS1
AUD_SAMP_FS2
AUD_SAMP_SHDN_L
AUD_MAX9714_VREG

U7200
MAX9714
QFN-LF

VDD
INL-
INL+
INR+
INR-
G1
G2
FS1
FS2
SHDN*
NC
REG
CHOLD
OUTL+
OUTL+
OUTL-
OUTL-
C1+
C1-
OUTR+
OUTR+
OUTR-
OUTR-
SS
THM
AGND PAD
PGND

AUD_MAX9714_CHOLD

NET SPACING TYPE=AUDIO
MIN_LINE_WIDTH=0.5MM
MIN_NECK_WIDTH=0.3MM
AUDSAMPOUTLP
AUDSAMPOUTLN
AUDSAMPOUTRP
AUDSAMPOUTRN

MIN_LINE_WIDTH=0.2MM
MIN_NECK_WIDTH=0.15MM
AUDSAMPCPP
AUDSAMPCPN

C7208 0.1UF 10% 50V X7R 603-1

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

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

R7215 10K 5% 1/16W MF-LF 402
PP3V3_INTERCON

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

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

C7209 0.47UF 10% 16V X7R 805

R7213 100 5% 1/16W MF-LF 402
AUD_GPIO_0
AUD_DEBOUNCE

Q7200 2N7002DW-X-F SOT-363
Q7200 2N7002DW-X-F SOT-363

C7221 100PF 5% 50V CERM 402

R7212 10K 5% 1/16W MF-LF 402

C7214 1UF 10% 25V X5R 603

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

GND_AUDIO_SPKRAMP_PLANE

XC7200 50K20

NET SPACING TYPE=AUDIO
MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.25MM

XW7201 SM OMIT

GND_AUDIO_SPKRAMP

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	
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APPLE COMPUTER INC.	SIZE: D	DRAWING NUMBER: 051-7124 REV: D
	SCALE: NONE	SHT 72 OF 111

COMBO IN JACK
APPLE P/N 514-0349

OMIT
CRITICAL

J7300
OPTI-AUD-IN-JCK-M60
F-ANG-TH

NC_AUD_LI_TYPE_JACK NC
AUD_LI_L_JACK
AUD_LI_DET_JACK
AUD_LI_R_JACK
AUD_LI_GND_JACK
PP3V3_AUDIO_SPDIF_JACK
AUD_SPDIFIN_JACK
AUD_SPDIF_GND_IN NC
GND_CHASSIS_AUDIO_EXTERNAL_J

OPTICAL RECEIVER (VCC, GND, VOUT)

C7326 1UF 10% 6.3V CERM 402

R7305 5% 1/16W MF-LF 402

L7300 180-OHM-1.5A 0603-LF — AUD_LI_L_EMI
L7301 180-OHM-1.5A 0603-LF — AUD_LI_DET_EMI
L7302 180-OHM-1.5A 0603-LF — AUD_LI_R_EMI
L7303 180-OHM-1.5A 0603-LF — AUD_LI_GND_EMI
L7304 180-OHM-1.5A 0603-LF — AUD_LI_L
L7305 180-OHM-1.5A 0603-LF — AUD_LI_DET_H
L7306 180-OHM-1.5A 0603-LF — AUD_LI_R
L7307 180-OHM-1.5A 0603-LF — GND_AUDIO_CODEC

MIN_LINE_WIDTH=0.3MM MIN_NECK_WIDTH=0.2MM
MIN_LINE_WIDTH=0.5MM MIN_NECK_WIDTH=0.3MM

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

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

XW7307 SM — GND_CHASSIS_AUDIO_EXTERNAL ↔ GND_CHASSIS_AUDIO_EXTERNAL_J

SPEAKER CABLE CONNECTOR
APPLE P/N 518S0325

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

CRITICAL
J7301
53261-0798
M-RT-SM

AUD_SPKR_OUTR_N
AUD_SPKR_OUTR_P
AUD_SPKR_OUTL_N
AUD_SPKR_OUTL_P

XW7300 SM

L7309 180-OHM-1.5A 0603-LF — AUD_MIC_IN_P_EMI
L7310 180-OHM-1.5A 0603-LF — AUD_MIC_IN_N_EMI
L7312 180-OHM-1.5A 0603-LF — AUD_MIC_IN_P_CONN
L7313 180-OHM-1.5A 0603-LF — AUD_MIC_IN_N_CONN

NET_SPACING_TYPE=AUDIO
AUD_MIC_IN_P
AUD_MIC_IN_N
GND_AUDIO_MIC_CONN

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

TO FHB CONNECTOR PAGE 47

TO POWER SUPPLY PAGE 6
GND_CHASSIS_AUDIO_INTERNAL

AUD_SPDIF_OUT
R7308 100K 5% 1/16W MF-LF 402

L7315 180-OHM-1.5A 0603-LF — PP3V3_AUDIO_SPDIF_EMI
L7316 180-OHM-1.5A 0603-LF — AUD_LO_TYPE_EMI
L7318 180-OHM-1.5A 0603-LF — AUD_LO_L_EMI
L7319 180-OHM-1.5A 0603-LF — AUD_LO_TIP_EMI
L7317 180-OHM-1.5A 0603-LF — AUD_LO_R_EMI
L7323 180-OHM-1.5A 0603-LF — PP3V3_AUDIO_SPDIF_JACK
L7324 180-OHM-1.5A 0603-LF — AUD_LO_TYPE
L7326 180-OHM-1.5A 0603-LF — AUD_LO_L
L7327 180-OHM-1.5A 0603-LF — AUD_LO_TIP
L7325 180-OHM-1.5A 0603-LF — AUD_LO_R

=PP3V3_S0_AUDIO

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

LINE OUT JACK
APPLE P/N 514-0354

OMIT
CRITICAL

J7303
OPTI-AUD-OUT-JCK-M60
F-ANG-TH

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

MIN_LINE_WIDTH=0.3MM MIN_NECK_WIDTH=0.2MM
MIN_LINE_WIDTH=0.25MM MIN_NECK_WIDTH=0.2MM

AUD_SPDIF_GND_OUT NC

L7880 0 5% 1/10W MF-LF 603 — GND_AUDIO_CODEC ↔ GND_AUDIO_CODEC_EMI1
L7381 0 5% 1/10W MF-LF 603

R7302 0 5% 1/16W MF-LF 402

DZ7380 0 5% 1/16W MF-LF 402
DZ7311 8V-100PF 402
DZ7314 8V-100PF 402
DZ7313 8V-100PF 402
DZ7315 8V-100PF 402
DZ7323 8V-100PF 402

GND_CHASSIS_AUDIO_EXTERNAL_J

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
514-0349	1	COMBO INPUT CONNECTOR M60	J7300	CRITICAL	
514-0354	1	COMBO OUTPUT CONNECTOR M60	J7303	CRITICAL	

AUDIO: INPUT/OUTPUT

SYNC_MASTER=AUDIO
SYNC_DATE=02/23/2006

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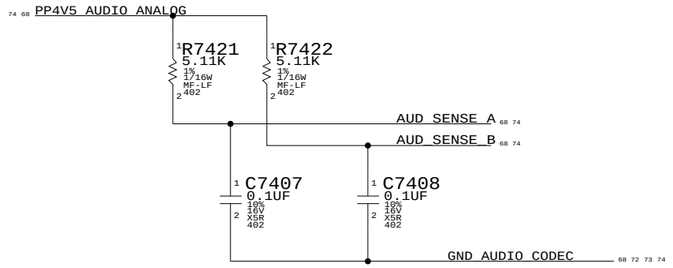
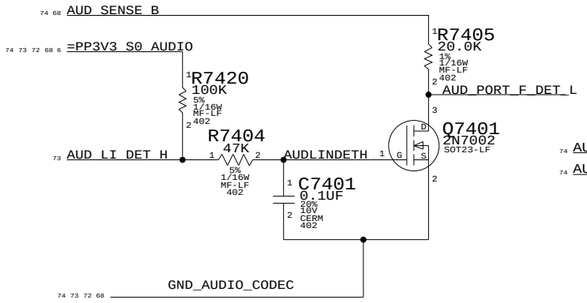
APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 73 OF 111	

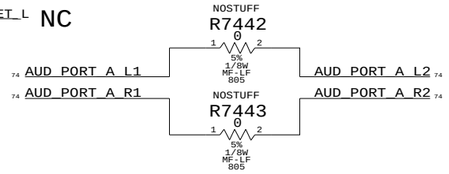
JACK SENSE PULL UPS(PLACE NEXT TO CODEC)

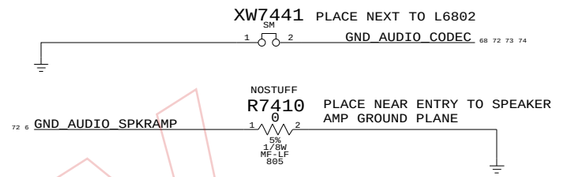


PORT F (LI) PLUG DETECT



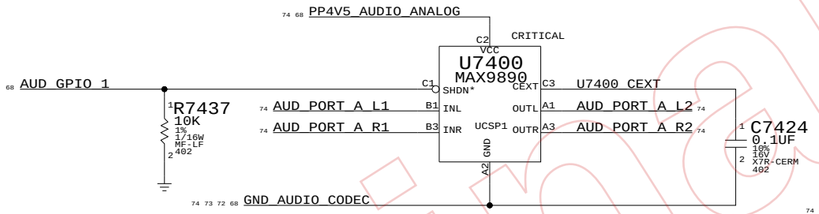
AUDIO GROUND RETURNS



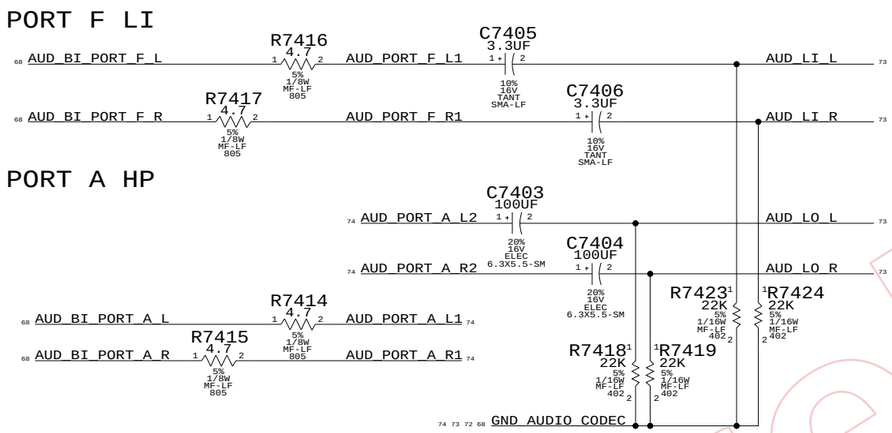


USED PORTS
PORT A HP
PORT B MIC IN VREF =80%
PORT C BI SPEAKERS
PORT F LI

UNUSED PORTS
PORT E DETECT DELEGATE
PORT D

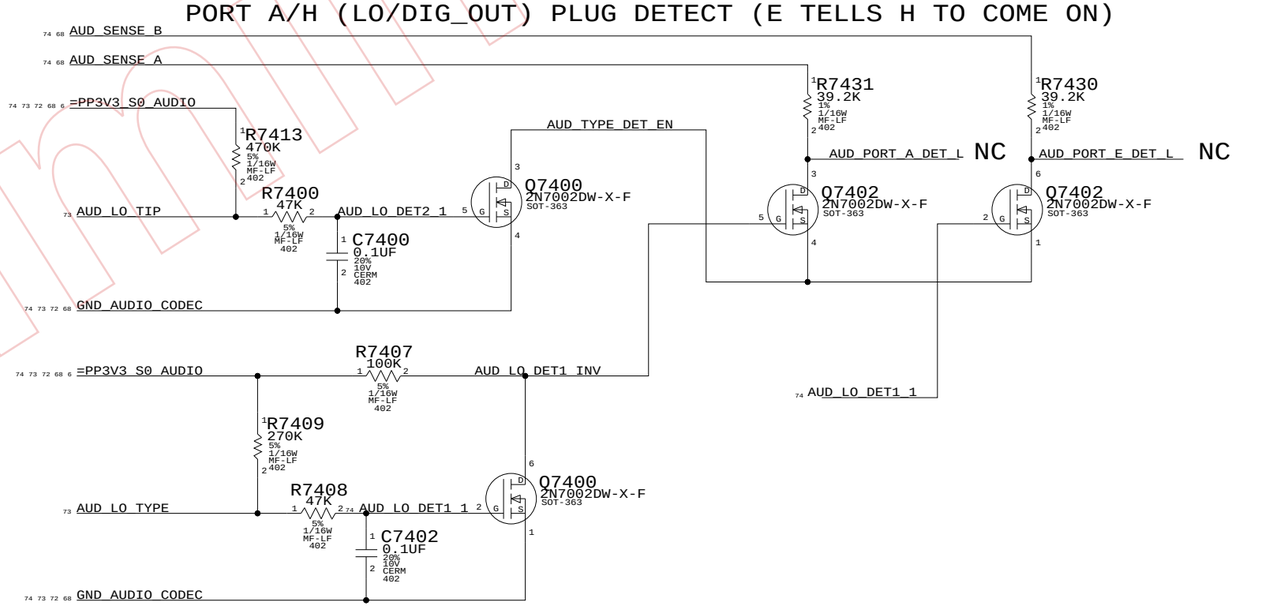


PORT F LI

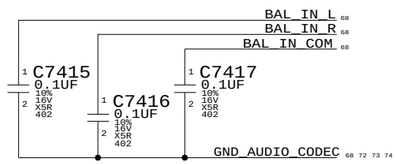


PORT A HP

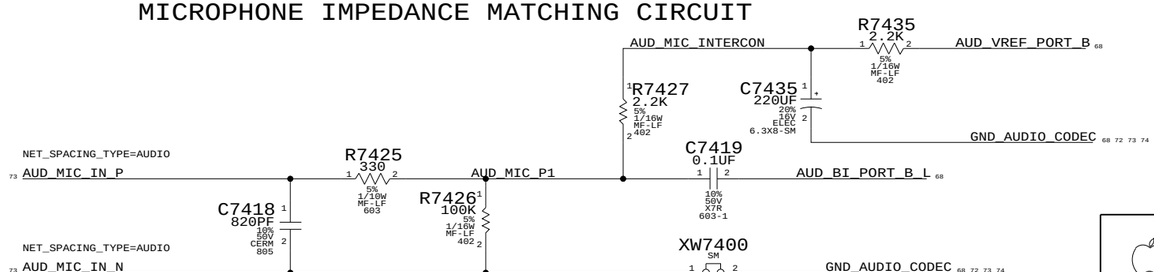
PORT A/H (LO/DIG_OUT) PLUG DETECT (E TELLS H TO COME ON)



UNUSED PORT TERMINATION



MICROPHONE IMPEDANCE MATCHING CIRCUIT



AUDIO: JACK DETECT

SYNC_MASTER=AUDIO SYNC_DATE=02/23/2006

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SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 74 OF 111	

IMVP6 CPU VCORE REGULATOR

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

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

*NEED TO CHANGE R7531 TO NTC ERT-J1VR103J PANASONIC

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

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

	MIN_LINE_WIDTH	MIN_NECK_WIDTH
IMVP6_OCSET	0.25 MM	0.20 MM
IMVP6_VSUM	0.25 MM	0.20 MM
GND_IMVP6_SGND	0.50 MM	0.20 MM
IMVP6_VO	0.25 MM	0.20 MM
IMVP6_DROOP	0.25 MM	0.20 MM
IMVP6_DFB	0.25 MM	0.20 MM
IMVP6_SOFT	0.25 MM	0.20 MM
IMVP6_RBIAS	0.25 MM	0.20 MM
IMVP6_VDIFF	0.25 MM	0.20 MM
IMVP6_FB2	0.25 MM	0.20 MM
IMVP6_FB	0.25 MM	0.20 MM
IMVP6_COMP	0.25 MM	0.20 MM
IMVP6_VW	0.25 MM	0.25 MM
IMVP6_RTN	0.25 MM	0.25 MM
IMVP6_VSEN	0.25 MM	0.25 MM

IMVP6 CPU VCore Regulator	
SYNC_MASTER=POWER	SYNC_DATE=07/08/2005

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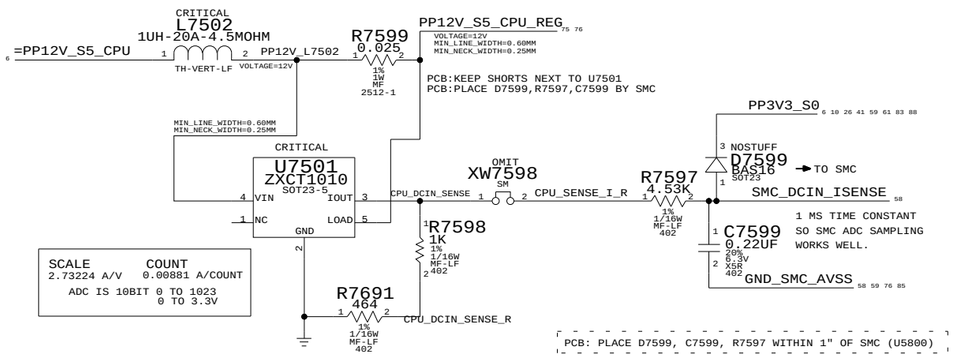
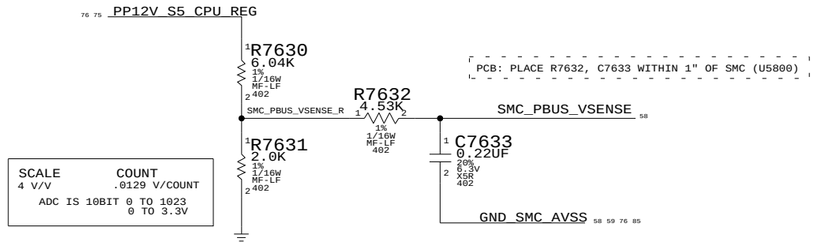
SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 75 OF 111	

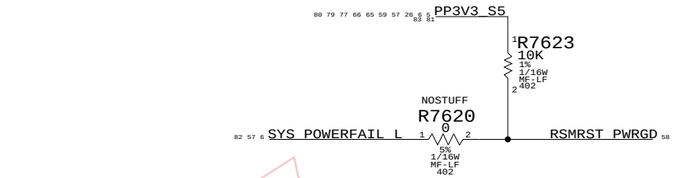
PROCESSOR VCORE CURRENT SENSE
(USING 12V INPUT CURRENT TO DERIVE CPU CURRENT)



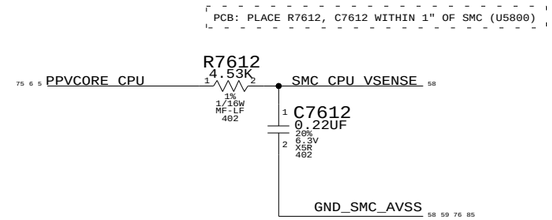
PROCESSOR DCIN VOLTAGE SENSE
(SCALING 12V INPUT VOLTAGE TO SMC)



SMC PWRGD PULLUP

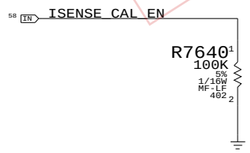


PROCESSOR VCORE SENSE



Current Sense Calibration Circuit

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

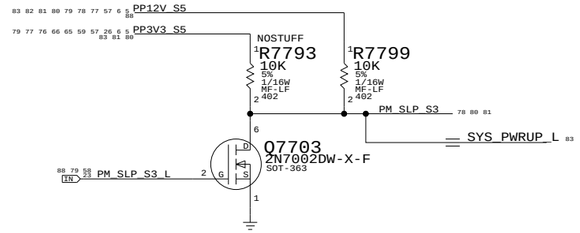


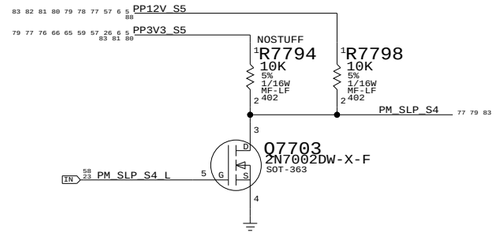
CPU SENSE CIRCUITRIES

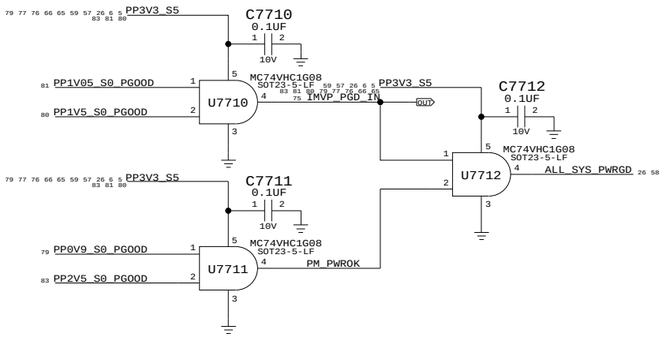
SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

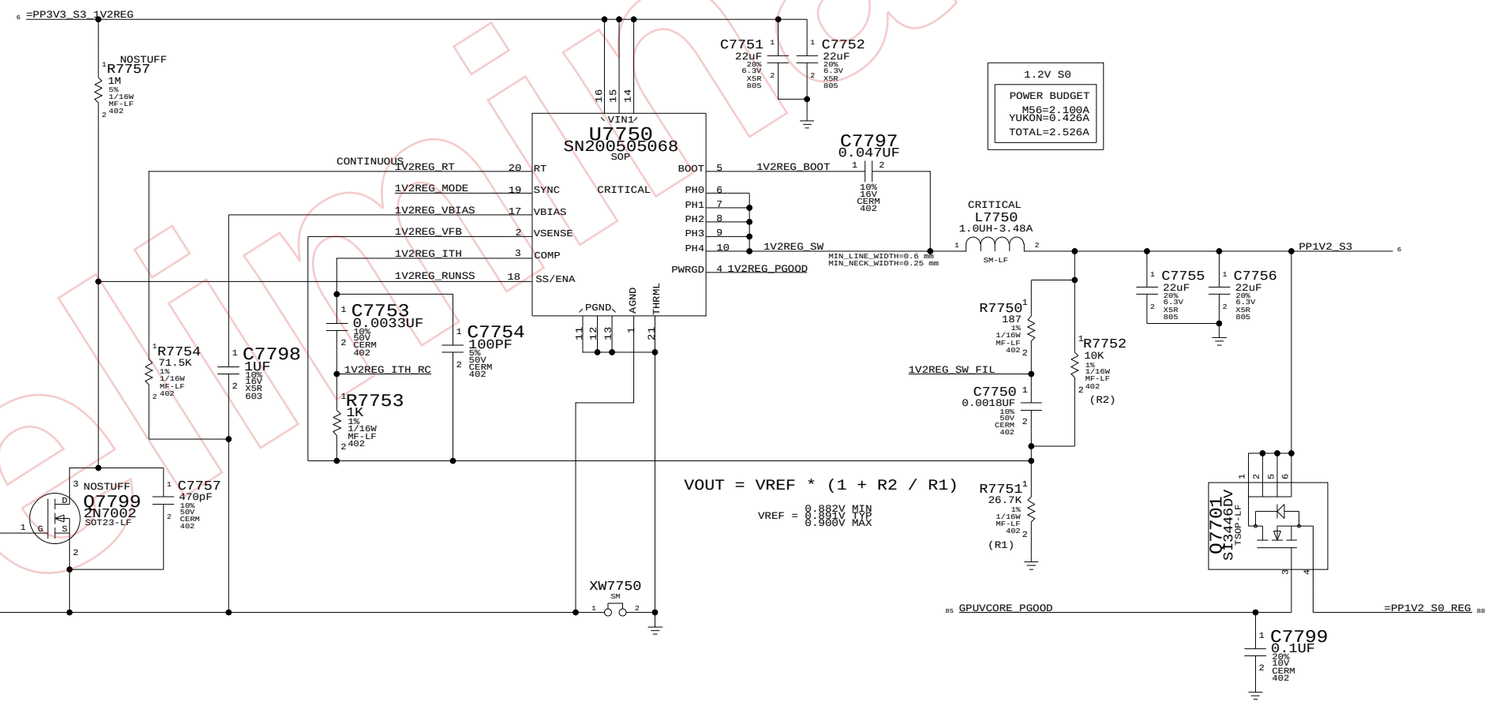
SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 76 OF 111	







1.2V S3 REGULATOR / 1.2V S0 FET



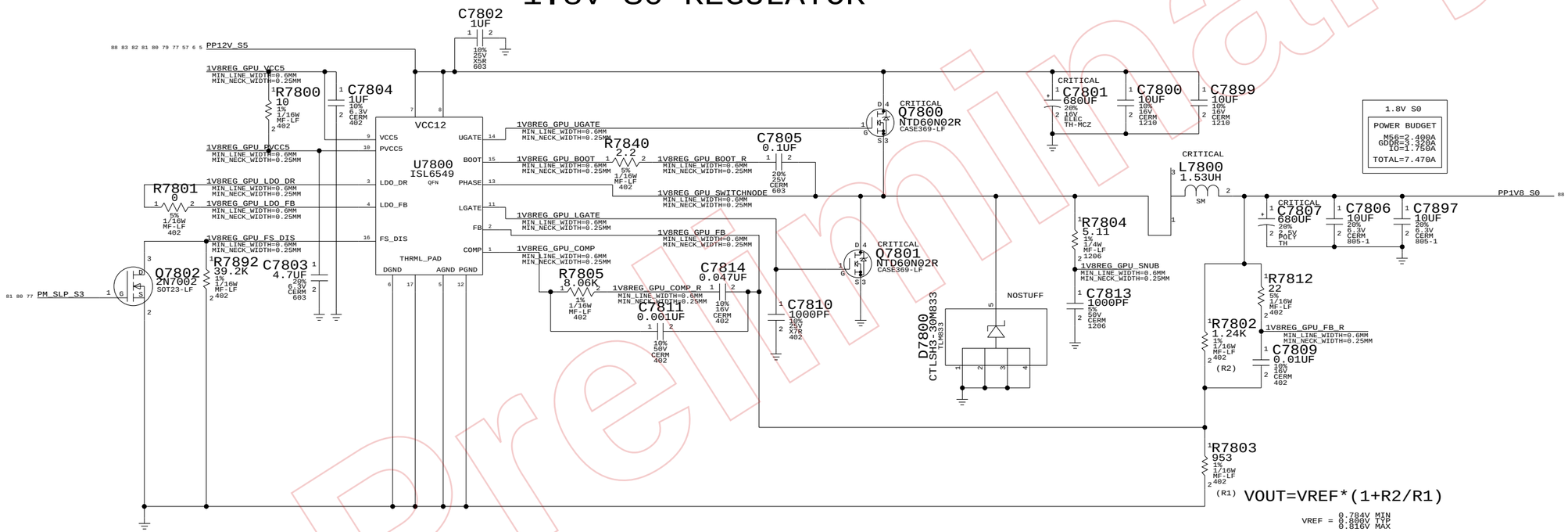
2.5V & 1.2V GRAPHICS REGULATORS

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE	SHT	OF
NONE	77	111

1.8V S0 REGULATOR



1.8V GDDR REGULATOR

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

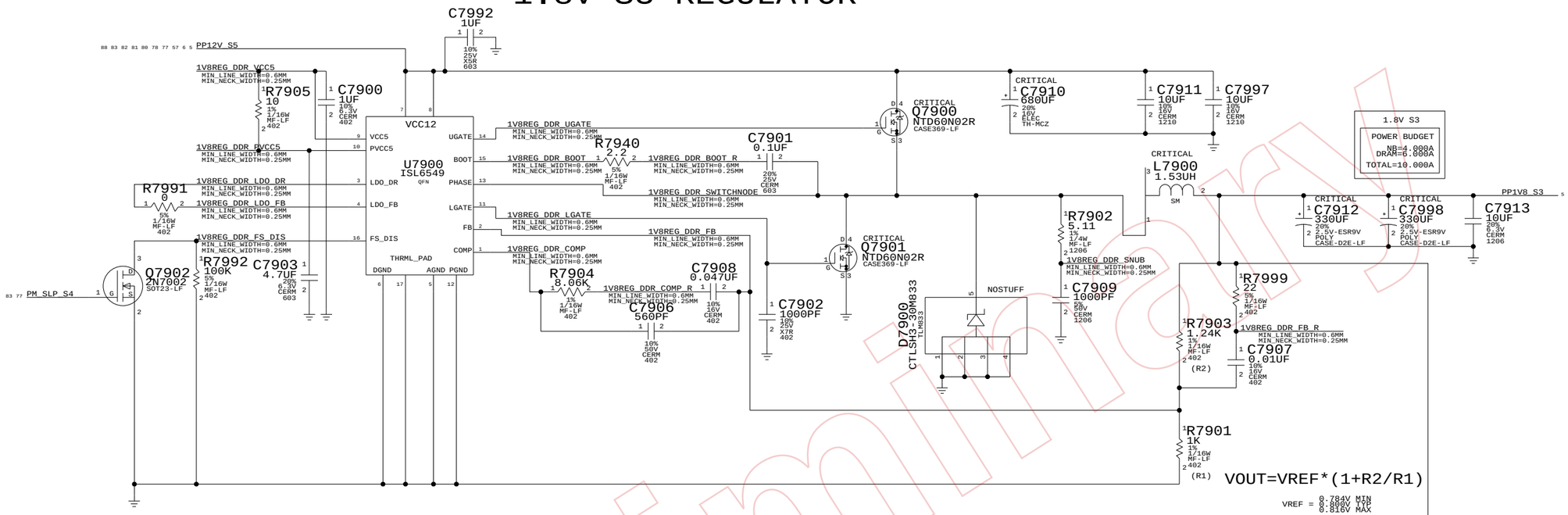
SIZE	DRAWING NUMBER	REV.
D	051-7124	D

SCALE: NONE

SHT 78 OF 111

TRUE

1.8V S3 REGULATOR



PM_SLP_S3_L → MEMVTT_EN

1.8V Vreg

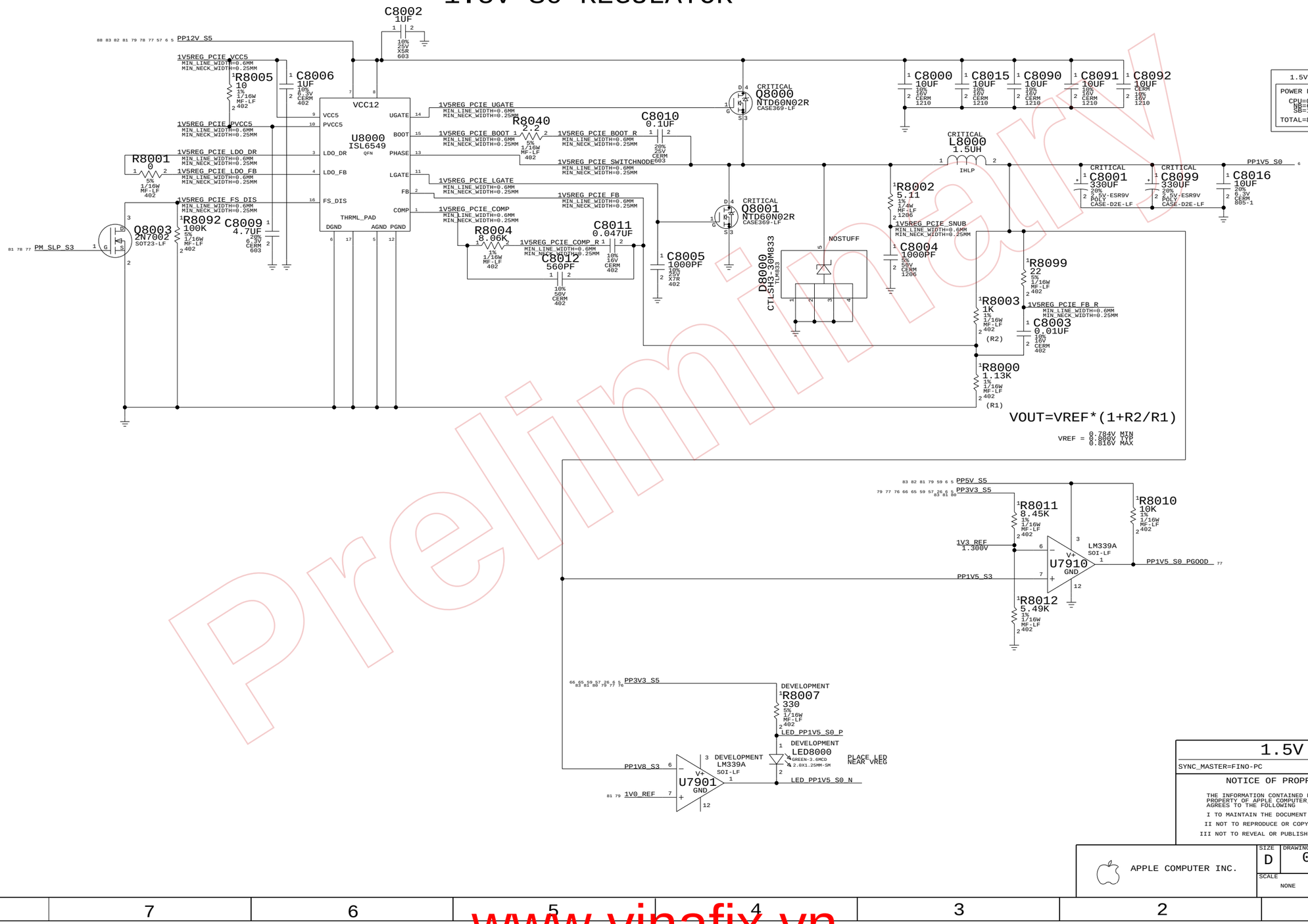
SYNC_MASTER=M23-PC SYNC_DATE=04/12/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D

SCALE	SHT
NONE	79 OF 111

1.5V S0 REGULATOR



1.5V Vreg

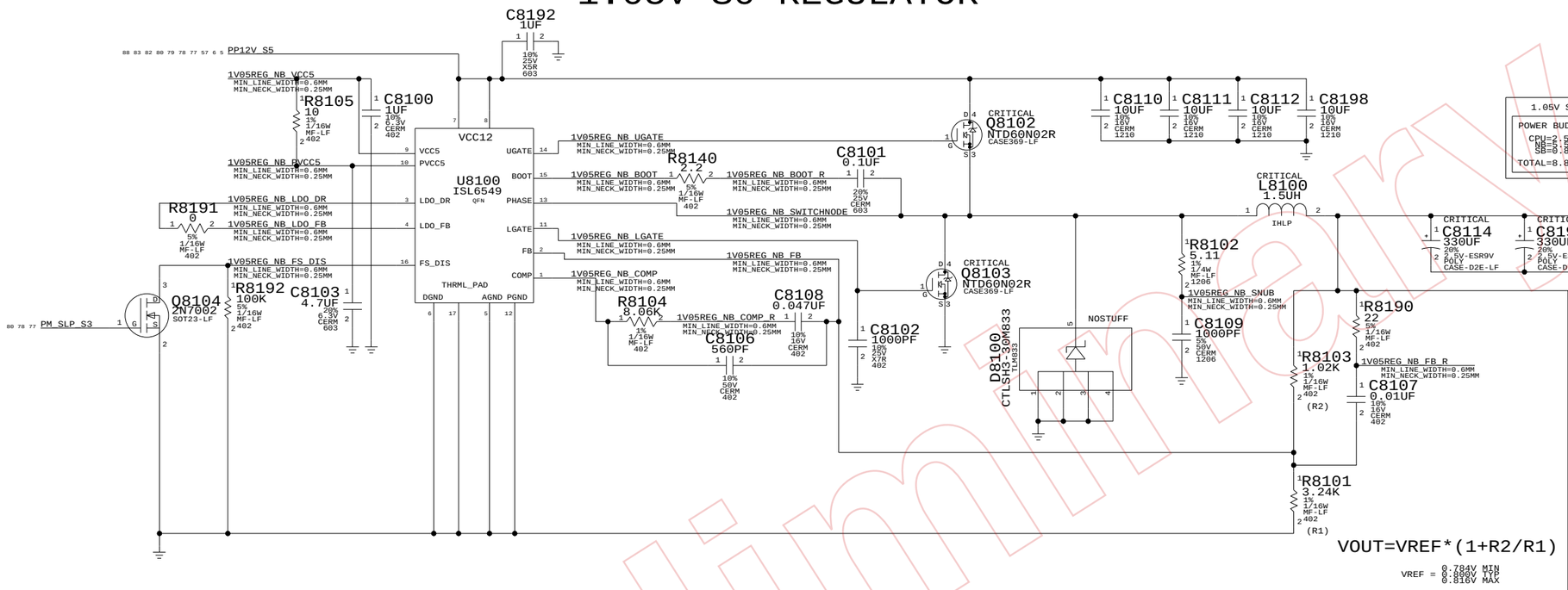
SYNC_MASTER=FINO-PC SYNC_DATE=05/18/2005

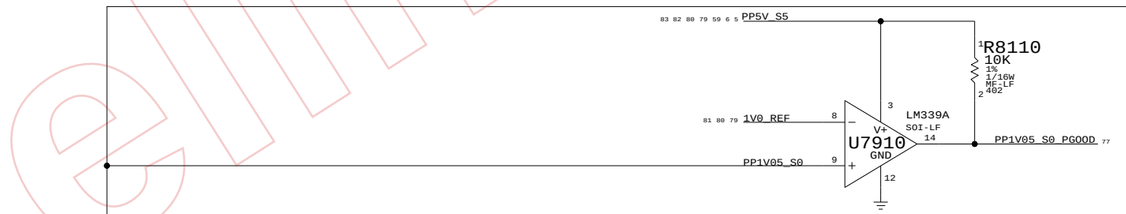
APPLE COMPUTER INC.

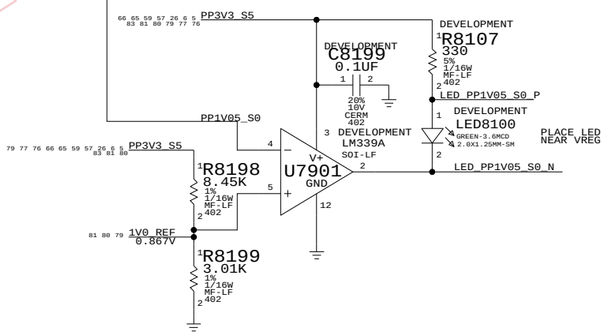
SIZE	DRAWING NUMBER	REV.
D	051-7124	D

SCALE: NONE SHT 80 OF 111

1.05V S0 REGULATOR







1.05V VREG		
SYNC_MASTER=M38-RT	SYNC_DATE=05/18/2005	

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	D	051-7124	D
	SCALE: NONE	SHT 81 OF 111	

5V S5 AND 5V AUDIO S5 REGULATOR

=PP5V_S5_AUDIO_LDO
C8220 22UF 20% 6.3V X5R 805
CRITICAL Q8203 IRF1902PBF SO-8

5V AUDIO S5
M50 POWER BUDGET
AUDIO=0.059A
TOTAL=0.059A

PP4V5_S5_AUDIO_ANALOG 4.50V NOMINAL
C8225 10UF 20% 6.3V CERM 805-1
C8222 10UF 20% 6.3V CERM 805-1
C8221 10UF 20% 6.3V CERM 805-1
C8226 10UF 20% 6.3V CERM 805-1
R8220 1K 1% 1/16W MF-LF 402
R8222 215 1% 1/16W MF-LF 402

PP12V_S5
C8292 1UF 10% 25V X5R 603
C8200 1UF 10% 25V CERM 402

5VREG_VCC5 MIN_LINE_WIDTH=0.6MM MIN_NECK_WIDTH=0.25MM
R8205 10 1% 1/16W MF-LF 402
5VREG_PVCC5 MIN_LINE_WIDTH=0.6MM MIN_NECK_WIDTH=0.25MM
5VREG_LDO_DR MIN_LINE_WIDTH=0.6MM MIN_NECK_WIDTH=0.25MM
C8223 1000PF 10% 25V X7R 402
5V_AUDIO_LDODR_C MIN_LINE_WIDTH=0.6MM MIN_NECK_WIDTH=0.25MM
R8221 2.7K 5% 1/16W MF-LF 402
NOSTUFF C8224 1000PF 10% 25V X7R 402
5VREG_LDO_FB MIN_LINE_WIDTH=0.6MM MIN_NECK_WIDTH=0.25MM

U8200 ISL6549 QFN
VCC12
VCC5
PVCC5 CRITICAL
LDO_DR
LDO_FB
FS_DIS
THRML_PAD
DGND AGND PGND
UGATE 5VREG_UGATE MIN_LINE_WIDTH=0.6MM MIN_NECK_WIDTH=0.25MM
BOOT 5VREG_BOOT MIN_LINE_WIDTH=0.6MM MIN_NECK_WIDTH=0.25MM
PHASE 5VREG_SWITCHNODE MIN_LINE_WIDTH=0.6MM MIN_NECK_WIDTH=0.25MM
LGATE 5VREG_LGATE MIN_LINE_WIDTH=0.6MM MIN_NECK_WIDTH=0.25MM
FB 5VREG_FB MIN_LINE_WIDTH=0.6MM MIN_NECK_WIDTH=0.25MM
COMP 5VREG_COMP MIN_LINE_WIDTH=0.6MM MIN_NECK_WIDTH=0.25MM

R8240 2.2 5% 1/16W MF-LF 402
5VREG_BOOT_R MIN_LINE_WIDTH=0.6MM MIN_NECK_WIDTH=0.25MM
C8201 0.1UF 20% 25V CERM 603
CRITICAL Q8200 IRLR7807Z TO-252AA
R8204 8.06K 1% 1/16W MF-LF 402
5VREG_COMP_R MIN_LINE_WIDTH=0.6MM MIN_NECK_WIDTH=0.25MM
C8206 470PF 10% 50V CERM 402
C8208 0.047UF 10% 16V CERM 402
CRITICAL Q8201 IRLR7807Z TO-252AA
C8202 1000PF 10% 25V X7R 402
D8200 CTLSH3-30M833 TLM833
NOSTUFF

CRITICAL C8253 1000UF 20% 16V ELEC TH-KZJ-LF
C8211 10UF 20% 6.3V CERM 1210
OMIT L8203 3.3UH IHLP CRITICAL
R8202 5.11 1% 1/4W MF-LF 1206
5VREG_SNUB MIN_LINE_WIDTH=0.6MM MIN_NECK_WIDTH=0.25MM
C8209 1000PF 5% 50V CERM 1206
R8203 1.24K 1% 1/16W MF-LF 402 (R2)
R8201 232 1% 1/16W MF-LF 402 (R1)
R8299 22 5% 1/16W MF-LF 402
5VREG_FB_R MIN_LINE_WIDTH=0.6MM MIN_NECK_WIDTH=0.25MM
C8207 0.01UF 10% 16V CERM 402

VOUT=VREF*(1+R2/R1)
VREF = 0.784V MIN
0.800V TYP
0.816V MAX

5V S5
M50 POWER BUDGET
5V S0=3.544A
5V S3=1.000A
MISC=0.164A
TOTAL=5.317A

CRITICAL C8215 1800UF 20% 6.3V ELEC TH-KZJ-LF
C8214 10UF 20% 6.3V CERM 805-1
C8213 10UF 20% 6.3V CERM 805-1
PP5V_S5 5.10V NOMINAL

5VREG_FS_DIS MIN_LINE_WIDTH=0.6MM MIN_NECK_WIDTH=0.25MM
R8292 39.2K 1% 1/16W MF-LF 402
NOSTUFF Q8202 2N7002 SOT23-LF
SYS_POWERFAIL_L
C8203 4.7UF 20% 6.3V CERM 603

5V DC/DC 4.5V

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D

SCALE: NONE SHT 82 OF 111

3.3V S0

PP3V3_S5

CRITICAL

Q8310 SI3446DV TSOP-LF

C8310 0.033UF 10% 50V X7R-CERM 603

NOSTUFF

C8311 0.01UF 10% 50V X7R 603

PP3V3_S0

R8310 100K 1% 1/10W MF-LF 603

START_G_3V3_S0

PP12V_S5

Q8311 2N7002 SOT23-LF

SYS_PWRUP_L

4.5V S0 AUDIO

PP4V5_S5_AUDIO_ANALOG

MIN_LINE_WIDTH=0.60MM
MIN_NECK_WIDTH=0.25MM
VOLTAGE=2.5V

CRITICAL

Q8317 SI3446DV TSOP-LF

C8325 0.01UF 10% 50V X7R 603-1

NOSTUFF

C8326 0.01UF 10% 50V X7R 603-1

PP4V5_S0_AUDIO_ANALOG

R8325 100K 1% 1/10W MF-LF 603

START_G_4V5_S0

PP12V_S5

Q8316 2N7002 SOT23-LF

SYS_PWRUP_L

3.3V AND 5V S3

PP12V_S5

R8301 3.6K 5% 1/10W MF-LF 402

GATE_5V_S3

CRITICAL

Q8303 2N7002 SOT23-LF

R8303 47K 5% 1/10W MF-LF 402

C8399 1UF 20% 10V CERM 603

PP5V_S5

CRITICAL

Q8300 IRF7413PBF SO-8

PP5V_S3

PM_SLP_S4

PP12V_S5

R8302 3.6K 5% 1/10W MF-LF 402

GATE_3V3_S3

CRITICAL

Q8302 2N7002 SOT23-LF

R8300 47K 5% 1/10W MF-LF 402

C8398 1UF 20% 10V CERM 603

PP3V3_S5

Q8301 IRF7413PBF SO-8

PP3V3_S3

2.5V S0

PP2V5_S5

CRITICAL

Q8319 SI3446DV TSOP-LF

C8317 0.01UF 10% 50V X7R 603-1

NOSTUFF

C8318 0.01UF 10% 50V X7R 603-1

PP2V5_S0

R8318 100K 1% 1/10W MF-LF 603

START_G_2V5_S0

PP12V_S5

Q8320 2N7002 SOT23-LF

SYS_PWRUP_L

5V S0

PP5V_S5

CRITICAL

Q8312 SI3446DV TSOP-LF

C8321 0.01UF 10% 50V X7R 603-1

PP12V_S5

R8311 100K 1% 1/10W MF-LF 603

START_G_5V_S0

PP5V_S0

NOSTUFF

C8315 0.01UF 10% 50V X7R 603-1

Q8315 2N7002 SOT23-LF

SYS_PWRUP_L

12V S0

PP12V_S5

Q8313 IRF7410PBF SO-8

PP12V_S0

R8313 100K 1% 1/10W MF-LF 603

R8312 10K 1% 1/10W MF-LF 603

C8320 0.01UF 10% 16V CERM 402

NOSTUFF

C8316 0.1UF 20% 25V CERM 603

R8315 47K 5% 1/10W MF-LF 603

TO_GATE_12V_S0_R

GATE_12V_S0

START_G_12V_S0

Q8318 CMLDM7002A SOT563

Q8318 CMLDM7002A SOT563

D8310 SOD-123 B0530WXF

SYS_PWRUP_L

C8319 0.1UF 20% 25V CERM 603

PP5V_S5
PP3V3_S5

R7911 2.37K 1% 1/10W MF-LF 402

R7910 10K 1% 1/10W MF-LF 402

2V3_REF 2.305V

U7910 LM339A SOI-LF

PP2V5_S0_PGOOD

PP2V5_S0

R7912 5.49K 1% 1/10W MF-LF 402

S0 AND S3 FETS

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

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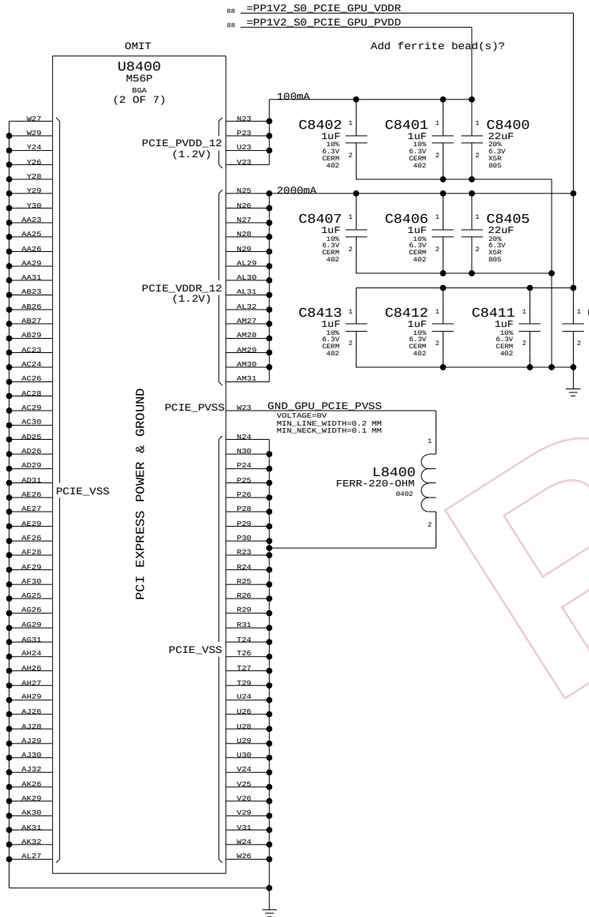
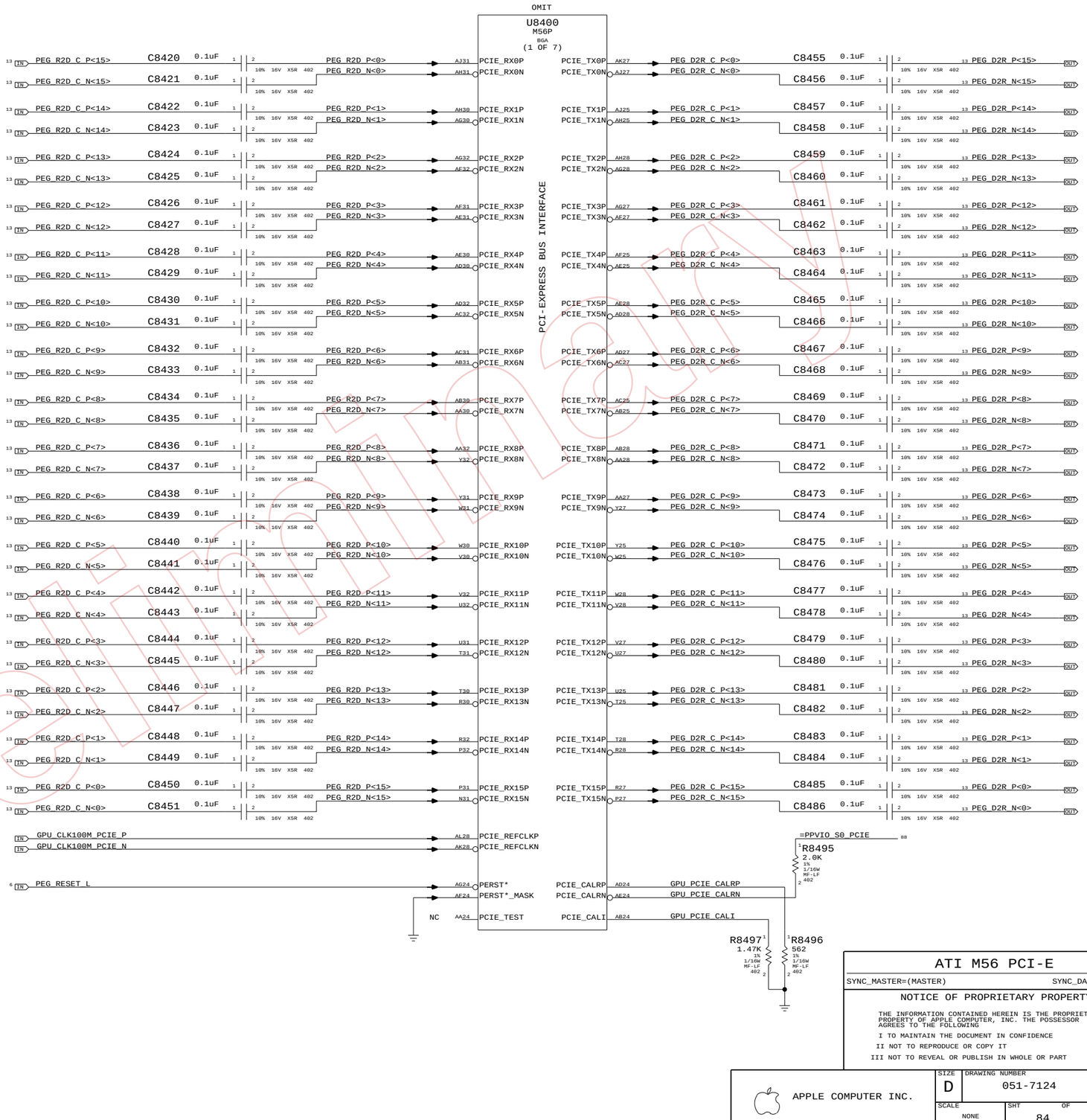
SIZE	DRAWING NUMBER	REV.
D	051-7124	D

SCALE	SHT
NONE	83 OF 111





ATI M56 PCI-E

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

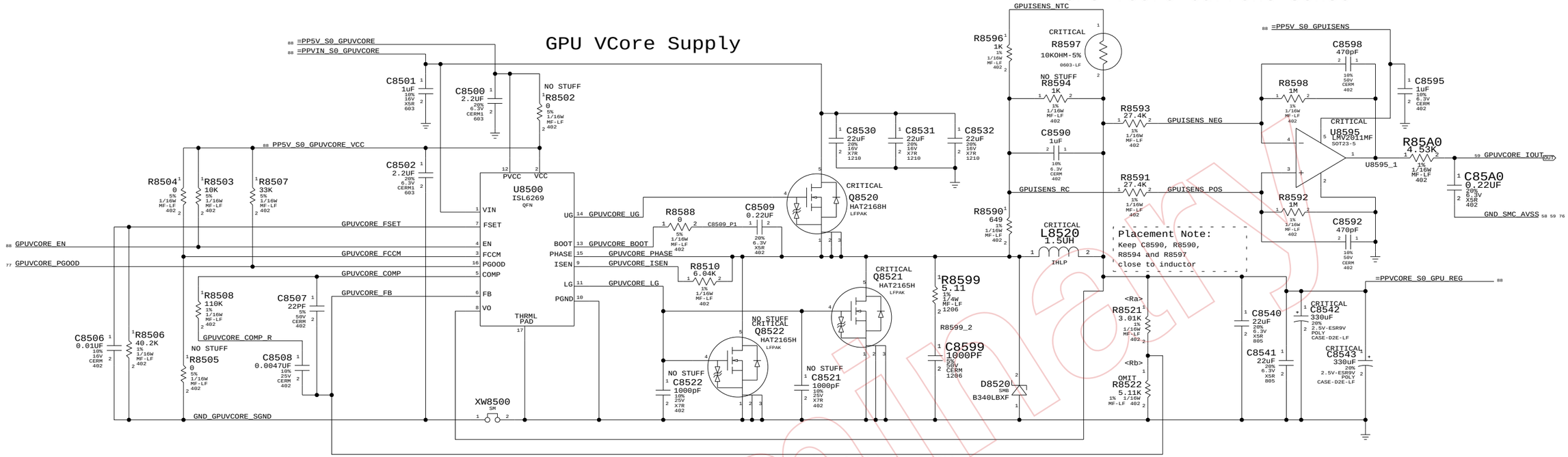
APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D

SCALE	SHT	OF
NONE	84	111

GPU VCore Current Sense

GPU VCore Supply



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

Back-Bias Positive Supply

=PPVCORE_S0_GPU_BBP — =PPVOUT_S0_GPUBBP_LDO

Back-Bias Negative Supply

=PNVOUT_S0_GPUBBN_REG

GPU (M56) Core Supplies

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

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SIZE	DRAWING NUMBER	REV.
D	051-7124	D

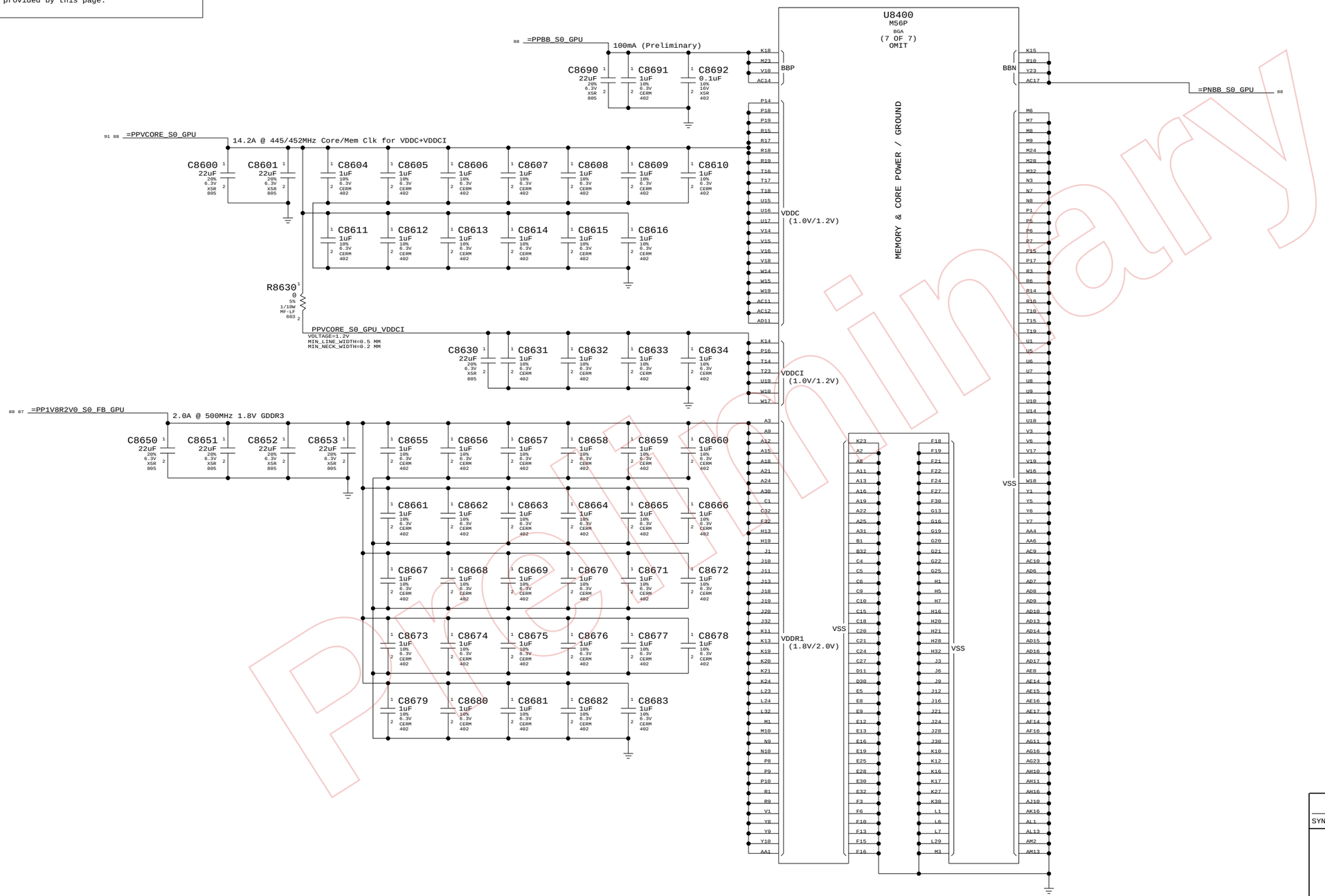
SCALE	SHT	OF
NONE	85	111

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)



ATI M56 Core Power

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

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SIZE	DRAWING NUMBER	REV.
D	051-7124	D

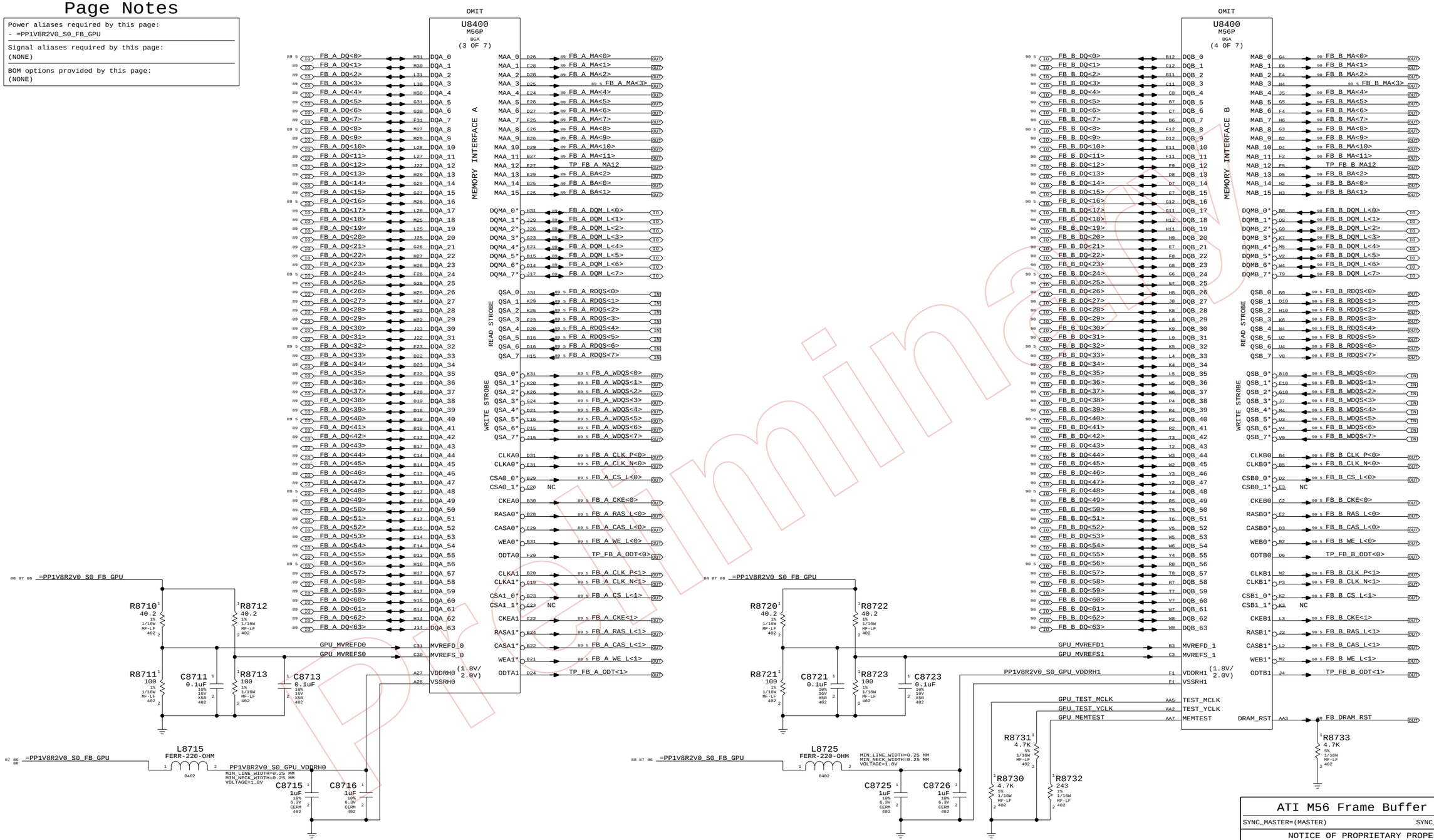
SCALE	SHT	OF
NONE	86	111

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)

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SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE	SHT	OF
NONE	87	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 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=0.6MM
MIN_NECK_WIDTH=0.125MM
VOLTAGE=1.2V
=PPVOUT_S0_GPUBBP_LDO 85
=PPBB_S0_GPU 86

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

83 76 61 59 41 26 10 6 PP3V3_S0
=PP3V3_S0_GPUBBP
=PP3V3_S0_GPUBBCTL
=PP3V3_DDC_DVI 97
=PP3V3_S0_LCD 94
=PP3V3_S0_GPU_VDDR3 88 91
=PP3V3_S0_GPU 91 93 97
=PP3V3_S0_GPUBBN
=PP3V3_S0_GPU_CLOCKS
=PP3V3_DDC_LCD 94
=PP3V3_GPU 94

83 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 82 81 80 79 78 77 57 6 5 PP12V_S5
=PPVIN_S0_GPUVCORE 85

83 6 PP12V_S0
=PP12V_GPU 94

97 83 75 6 PP5V_S0
=PP5V_S0_GPUBBCTL
=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 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
10K1 R8813 2 402 MF-LF 5% 1/16W

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

91 GPU_GPIO_1
10K1 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 R8803 2 402 MF-LF 5% 10K1 1/16W

91 GPU_GPIO_3
NOSTUFF R8804 2 402 MF-LF 5% 10K1 1/16W

91 GPU_GPIO_4
NOSTUFF R8805 2 402 MF-LF 5% 10K1 1/16W

GPIO 4 = DEBUG SIGNALS OUT

91 GPU_GPIO_5
10K1 R8806 2 402 MF-LF 5% 1/16W

91 GPU_GPIO_6
NOSTUFF R8807 2 402 MF-LF 5% 10K1 1/16W

TP_GPU_GPIO_7
MAKE_BASE=TRUE
GPU_GPIO_7 91

91 GPU_GPIO_8
NOSTUFF R8808 2 402 MF-LF 5% 10K1 1/16W

NC_GPU_GPIO_10
MAKE_BASE=TRUE
GPU_GPIO_10 91

91 GPU_GPIO_9
NOSTUFF R8809 2 402 MF-LF 5% 10K1 1/16W

91 GPU_GPIO_13
NOSTUFF R8812 2 402 MF-LF 5% 10K1 1/16W
ATI_FB_256M

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

93 GPU_GPIO_11
NOSTUFF R8811 2 402 MF-LF 5% 10K1 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
10K1 R8830 2 402 MF-LF 5% 1/16W

ATI_FB_HYNIX
91 GPU_GPIO_27
10K1 R8831 2 402 MF-LF 5% 1/16W

91 GPU_GPIO_28
10K1 R8832 2 402 MF-LF 5% 1/16W

TMDS_PANEL
91 GPU_GPIO_29
10K1 R8833 2 402 MF-LF 5% 1/16W

GPU_VCORE_LOW
MAKE_BASE=TRUE
GPU_GPIO_15 91
10K1 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

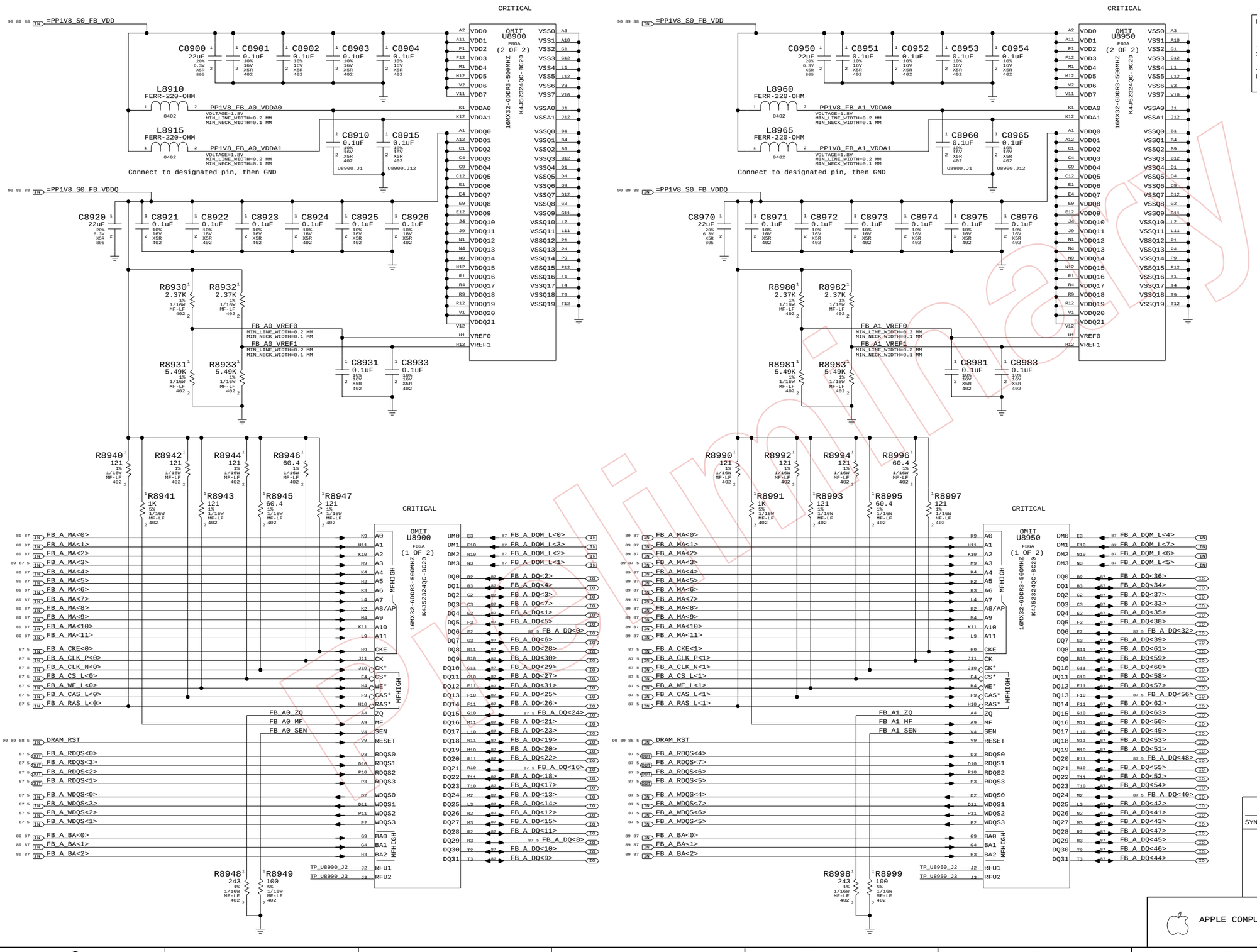
TP_GPU_TV_COMP
MAKE_BASE=TRUE
GPU_TV_COMP 93

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)

=PP1V8_S0_FB_VDD

C9000 22uF 20% 6.3V X5R 805; C9001–C9004 0.1uF 10% 16V X5R 402

L9010 FERR-220-OHM 0402 — PP1V8_FB_B0_VDDA0
VOLTAGE=1.8V
MIN_LINE_WIDTH=0.2 MM
MIN_NECK_WIDTH=0.1 MM

L9015 FERR-220-OHM 0402 — PP1V8_FB_B0_VDDA1
VOLTAGE=1.8V
MIN_LINE_WIDTH=0.2 MM
MIN_NECK_WIDTH=0.1 MM

Connect to designated pin, then GND

C9010, C9015 0.1uF 10% 16V X5R 402 — U9000.J1, U9000.J12

=PP1V8_S0_FB_VDDQ

C9020 22uF 20% 6.3V X5R 805; C9021–C9026 0.1uF 10% 16V X5R 402

R9030, R9032 2.37K 1% 1/16W MF-LF 402 — FB_B0_VREF0
MIN_LINE_WIDTH=0.2 MM
MIN_NECK_WIDTH=0.1 MM

R9031, R9033 5.49K 1% 1/16W MF-LF 402 — FB_B0_VREF1
MIN_LINE_WIDTH=0.2 MM
MIN_NECK_WIDTH=0.1 MM

C9031, C9033 0.1uF 10% 16V X5R 402

R9040 121 1% 1/16W MF-LF 402
R9042 121 1% 1/16W MF-LF 402
R9044 121 1% 1/16W MF-LF 402
R9046 60.4 1% 1/16W MF-LF 402
R9043 121 1% 1/16W MF-LF 402
R9045 60.4 1% 1/16W MF-LF 402
R9047 121 1% 1/16W MF-LF 402

U9000 — CRITICAL, OMIT
FBGA (2 OF 2)
16MX32-GDDR3-500MHZ K4J52324QC-BC20

A2 VDD0	A11 VDD1	F1 VDD2
F12 VDD3	M1 VDD4	M12 VDD5
V2 VDD6	V11 VDD7	
K1 VDDA0	K12 VDDA1	
A1 VDDQ0	A12 VDDQ1	C1 VDDQ2
C4 VDDQ3	C9 VDDQ4	C12 VDDQ5
E1 VDDQ6	E4 VDDQ7	E9 VDDQ8
E12 VDDQ9	J4 VDDQ10	J9 VDDQ11
N1 VDDQ12	N4 VDDQ13	N9 VDDQ14
N12 VDDQ15	R1 VDDQ16	R4 VDDQ17
R9 VDDQ18	R12 VDDQ19	V1 VDDQ20
V12 VDDQ21		
H1 VREF0	H12 VREF1	
A3 VSS0	A10 VSS1	G1 VSS2
G12 VSS3	L1 VSS4	L12 VSS5
V3 VSS6	V10 VSS7	
J1 VSSA0	J12 VSSA1	
B1 VSSQ0	B4 VSSQ1	B9 VSSQ2
B12 VSSQ3	D1 VSSQ4	D4 VSSQ5
D9 VSSQ6	D12 VSSQ7	G2 VSSQ8
G11 VSSQ9	L2 VSSQ10	L11 VSSQ11
P1 VSSQ12	P4 VSSQ13	P9 VSSQ14
P12 VSSQ15	T1 VSSQ16	T4 VSSQ17
T9 VSSQ18	T12 VSSQ19	

K4 A0	H2 A1	K3 A2
M4 A3	K9 A4	H11 A5
K10 A6	L9 A7	K11 A8/AP
M9 A9	K2 A10	L4 A11
H4 CKE	J11 CK	J10 CK*
F9 CS*	H9 WE*	F4 CAS*
H3 RAS*	A4 ZQ	A9 MF
V4 SEN	V9 RESET	
D3 RDQS0	D10 RDQS1	P10 RDQS2
P3 RDQS3	D2 WDQS0	D11 WDQS1
P11 WDQS2	P2 WDQS3	
G4 BA0	G9 BA1	H10 BA2
J2 RFU1	J3 RFU2	

MFLOW

E3 DM0	E10 DM1	N10 DM2	N3 DM3
B2 DQ0	B3 DQ1	C2 DQ2	C3 DQ3
E2 DQ4	F3 DQ5	F2 DQ6	G3 DQ7
B11 DQ8	B10 DQ9	C11 DQ10	C10 DQ11
E11 DQ12	F10 DQ13	F11 DQ14	G10 DQ15
M11 DQ16	L10 DQ17	N11 DQ18	M10 DQ19
R11 DQ20	R10 DQ21	T11 DQ22	T10 DQ23
M2 DQ24	L3 DQ25	N2 DQ26	M3 DQ27
R2 DQ28	R3 DQ29	T2 DQ30	T3 DQ31

R9041 100 5% 1/16W MF-LF 402
R9048 243 1% 1/16W MF-LF 402
R9049 100 5% 1/16W MF-LF 402

=PP1V8_S0_FB_VDD

C9050 22uF 20% 6.3V X5R 805; C9051–C9054 0.1uF 10% 16V X5R 402

L9060 FERR-220-OHM 0402 — PP1V8_FB_B1_VDDA0
VOLTAGE=1.8V
MIN_LINE_WIDTH=0.2 MM
MIN_NECK_WIDTH=0.1 MM

L9065 FERR-220-OHM 0402 — PP1V8_FB_B1_VDDA1
VOLTAGE=1.8V
MIN_LINE_WIDTH=0.2 MM
MIN_NECK_WIDTH=0.1 MM

Connect to designated pin, then GND

C9060, C9065 0.1uF 10% 16V X5R 402 — U9000.J1, U9000.J12

=PP1V8_S0_FB_VDDQ

C9070 22uF 20% 6.3V X5R 805; C9071–C9076 0.1uF 10% 16V X5R 402

R9080, R9082 2.37K 1% 1/16W MF-LF 402 — FB_B1_VREF0
MIN_LINE_WIDTH=0.2 MM
MIN_NECK_WIDTH=0.1 MM

R9081, R9083 5.49K 1% 1/16W MF-LF 402 — FB_B1_VREF1
MIN_LINE_WIDTH=0.2 MM
MIN_NECK_WIDTH=0.1 MM

C9081, C9083 0.1uF 10% 16V X5R 402

R9090 121 1% 1/16W MF-LF 402
R9092 121 1% 1/16W MF-LF 402
R9094 121 1% 1/16W MF-LF 402
R9096 60.4 1% 1/16W MF-LF 402
R9093 121 1% 1/16W MF-LF 402
R9095 60.4 1% 1/16W MF-LF 402
R9097 121 1% 1/16W MF-LF 402

U9050 — CRITICAL, OMIT
FBGA (1 OF 2)
16MX32-GDDR3-500MHZ K4J52324QC-BC20

A2 VDD0	A11 VDD1	F1 VDD2
F12 VDD3	M1 VDD4	M12 VDD5
V2 VDD6	V11 VDD7	
K1 VDDA0	K12 VDDA1	
A1 VDDQ0	A12 VDDQ1	C1 VDDQ2
C4 VDDQ3	C9 VDDQ4	C12 VDDQ5
E1 VDDQ6	E4 VDDQ7	E9 VDDQ8
E12 VDDQ9	J4 VDDQ10	J9 VDDQ11
N1 VDDQ12	N4 VDDQ13	N9 VDDQ14
N12 VDDQ15	R1 VDDQ16	R4 VDDQ17
R9 VDDQ18	R12 VDDQ19	V1 VDDQ20
V12 VDDQ21		
H1 VREF0	H12 VREF1	
A3 VSS0	A10 VSS1	G1 VSS2
G12 VSS3	L1 VSS4	L12 VSS5
V3 VSS6	V10 VSS7	
J1 VSSA0	J12 VSSA1	
B1 VSSQ0	B4 VSSQ1	B9 VSSQ2
B12 VSSQ3	D1 VSSQ4	D4 VSSQ5
D9 VSSQ6	D12 VSSQ7	G2 VSSQ8
G11 VSSQ9	L2 VSSQ10	L11 VSSQ11
P1 VSSQ12	P4 VSSQ13	P9 VSSQ14
P12 VSSQ15	T1 VSSQ16	T4 VSSQ17
T9 VSSQ18	T12 VSSQ19	

K4 A0	H2 A1	K3 A2
M4 A3	K9 A4	H11 A5
K10 A6	L9 A7	K11 A8/AP
M9 A9	K2 A10	L4 A11
H4 CKE	J11 CK	J10 CK*
F9 CS*	H9 WE*	F4 CAS*
H3 RAS*	A4 ZQ	A9 MF
V4 SEN	V9 RESET	
D3 RDQS0	D10 RDQS1	P10 RDQS2
P3 RDQS3	D2 WDQS0	D11 WDQS1
P11 WDQS2	P2 WDQS3	
G4 BA0	G9 BA1	H10 BA2
J2 RFU1	J3 RFU2	

MFLOW

E3 DM0	E10 DM1	N10 DM2	N3 DM3
B2 DQ0	B3 DQ1	C2 DQ2	C3 DQ3
E2 DQ4	F3 DQ5	F2 DQ6	G3 DQ7
B11 DQ8	B10 DQ9	C11 DQ10	C10 DQ11
E11 DQ12	F10 DQ13	F11 DQ14	G10 DQ15
M11 DQ16	L10 DQ17	N11 DQ18	M10 DQ19
R11 DQ20	R10 DQ21	T11 DQ22	T10 DQ23
M2 DQ24	L3 DQ25	N2 DQ26	M3 DQ27
R2 DQ28	R3 DQ29	T2 DQ30	T3 DQ31

R9091 100 5% 1/16W MF-LF 402
R9098 243 1% 1/16W MF-LF 402
R9099 100 5% 1/16W MF-LF 402

DRAM_RST

FB_B_MA<0>, FB_B_MA<1>, FB_B_MA<2>, FB_B_MA<3>, FB_B_MA<4>, FB_B_MA<5>, FB_B_MA<6>, FB_B_MA<7>, FB_B_MA<8>, FB_B_MA<9>, FB_B_MA<10>, FB_B_MA<11>
FB_B_CKE<0>, FB_B_CLK_P<0>, FB_B_CLK_N<0>, FB_B_CS_L<0>, FB_B_WE_L<0>, FB_B_CAS_L<0>, FB_B_RAS_L<0>
FB_B0_ZQ, FB_B0_MF, FB_B0_SEN
FB_B_RDQS<3>, FB_B_RDQS<0>, FB_B_RDQS<1>, FB_B_RDQS<2>
FB_B_WDQS<3>, FB_B_WDQS<0>, FB_B_WDQS<1>, FB_B_WDQS<2>
FB_B_BA<0>, FB_B_BA<1>, FB_B_BA<2>
FB_B_DQM_L<3>, FB_B_DQM_L<0>, FB_B_DQM_L<1>, FB_B_DQM_L<2>
FB_B_DQ<28>, FB_B_DQ<30>, FB_B_DQ<29>, FB_B_DQ<27>, FB_B_DQ<31>, FB_B_DQ<25>, FB_B_DQ<26>, FB_B_DQ<24>, FB_B_DQ<2>, FB_B_DQ<4>, FB_B_DQ<3>, FB_B_DQ<7>, FB_B_DQ<1>, FB_B_DQ<5>, FB_B_DQ<0>, FB_B_DQ<6>, FB_B_DQ<13>, FB_B_DQ<14>, FB_B_DQ<12>, FB_B_DQ<15>, FB_B_DQ<11>, FB_B_DQ<8>, FB_B_DQ<10>, FB_B_DQ<9>, FB_B_DQ<21>, FB_B_DQ<23>, FB_B_DQ<19>, FB_B_DQ<20>, FB_B_DQ<22>, FB_B_DQ<16>, FB_B_DQ<18>, FB_B_DQ<17>

DRAM_RST

FB_B_RDQS<7>, FB_B_RDQS<4>, FB_B_RDQS<5>, FB_B_RDQS<6>
FB_B_WDQS<7>, FB_B_WDQS<4>, FB_B_WDQS<5>, FB_B_WDQS<6>
FB_B_BA<0>, FB_B_BA<1>, FB_B_BA<2>
FB_B1_ZQ, FB_B1_MF, FB_B1_SEN
FB_B_DQM_L<7>, FB_B_DQM_L<4>, FB_B_DQM_L<5>, FB_B_DQM_L<6>
FB_B_DQ<61>, FB_B_DQ<59>, FB_B_DQ<60>, FB_B_DQ<58>, FB_B_DQ<57>, FB_B_DQ<56>, FB_B_DQ<62>, FB_B_DQ<63>, FB_B_DQ<36>, FB_B_DQ<34>, FB_B_DQ<37>, FB_B_DQ<33>, FB_B_DQ<35>, FB_B_DQ<38>, FB_B_DQ<32>, FB_B_DQ<39>, FB_B_DQ<45>, FB_B_DQ<40>, FB_B_DQ<43>, FB_B_DQ<41>, FB_B_DQ<47>, FB_B_DQ<42>, FB_B_DQ<46>, FB_B_DQ<44>, FB_B_DQ<51>, FB_B_DQ<50>, FB_B_DQ<49>, FB_B_DQ<54>, FB_B_DQ<48>, FB_B_DQ<55>, FB_B_DQ<52>, FB_B_DQ<53>

GDDR3 Frame Buffer B

SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

APPLE COMPUTER INC.

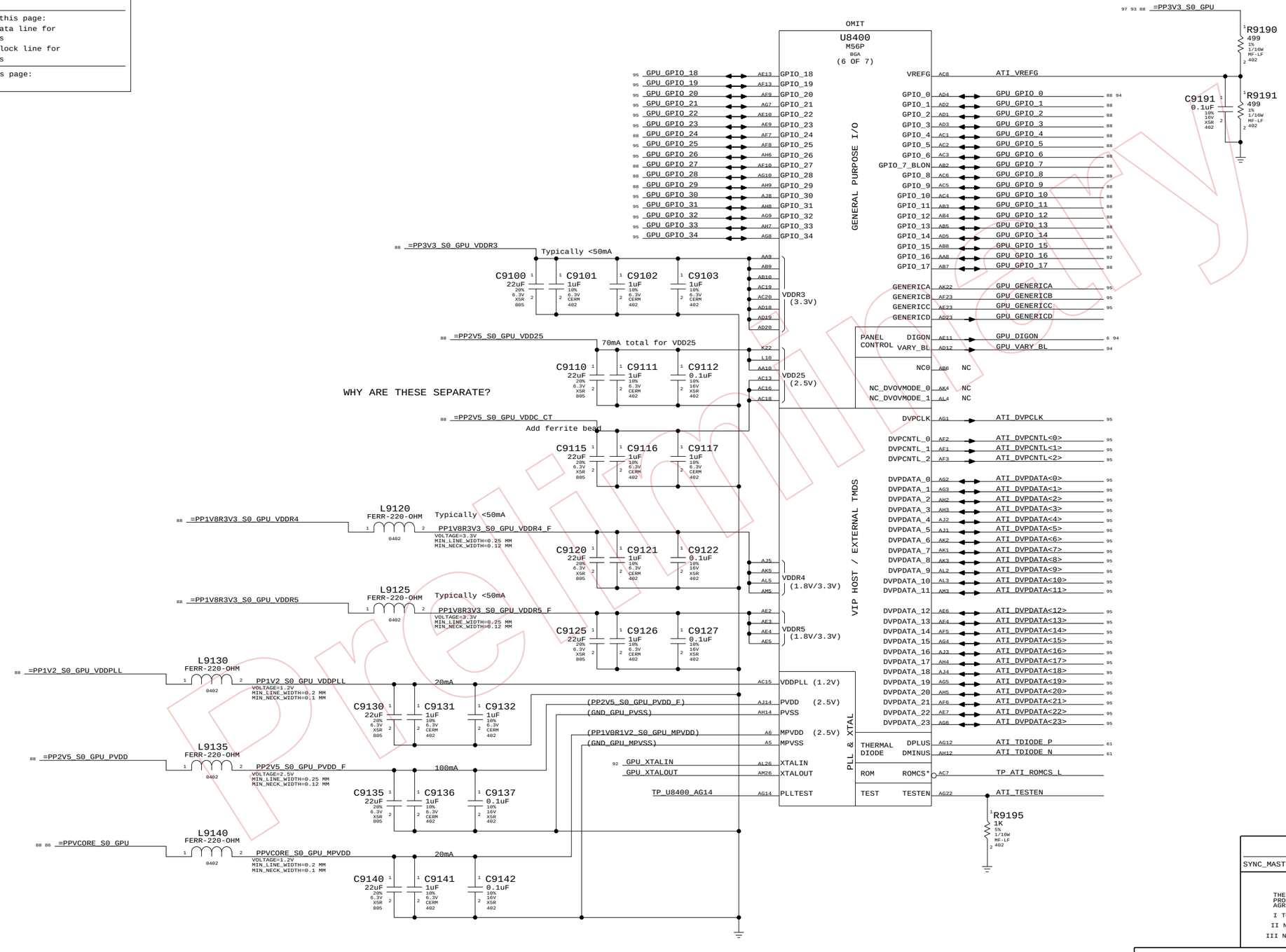
SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 90 OF 111	

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)

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APPLE COMPUTER INC.

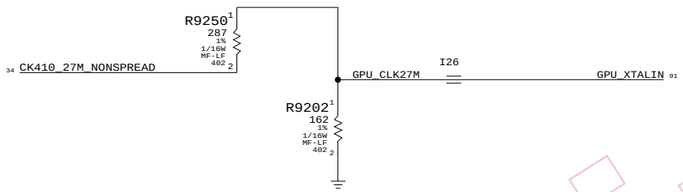
SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE: NONE	SHT 91 OF 111	

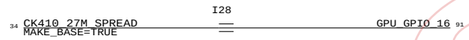
Page Notes

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	051-7124	D

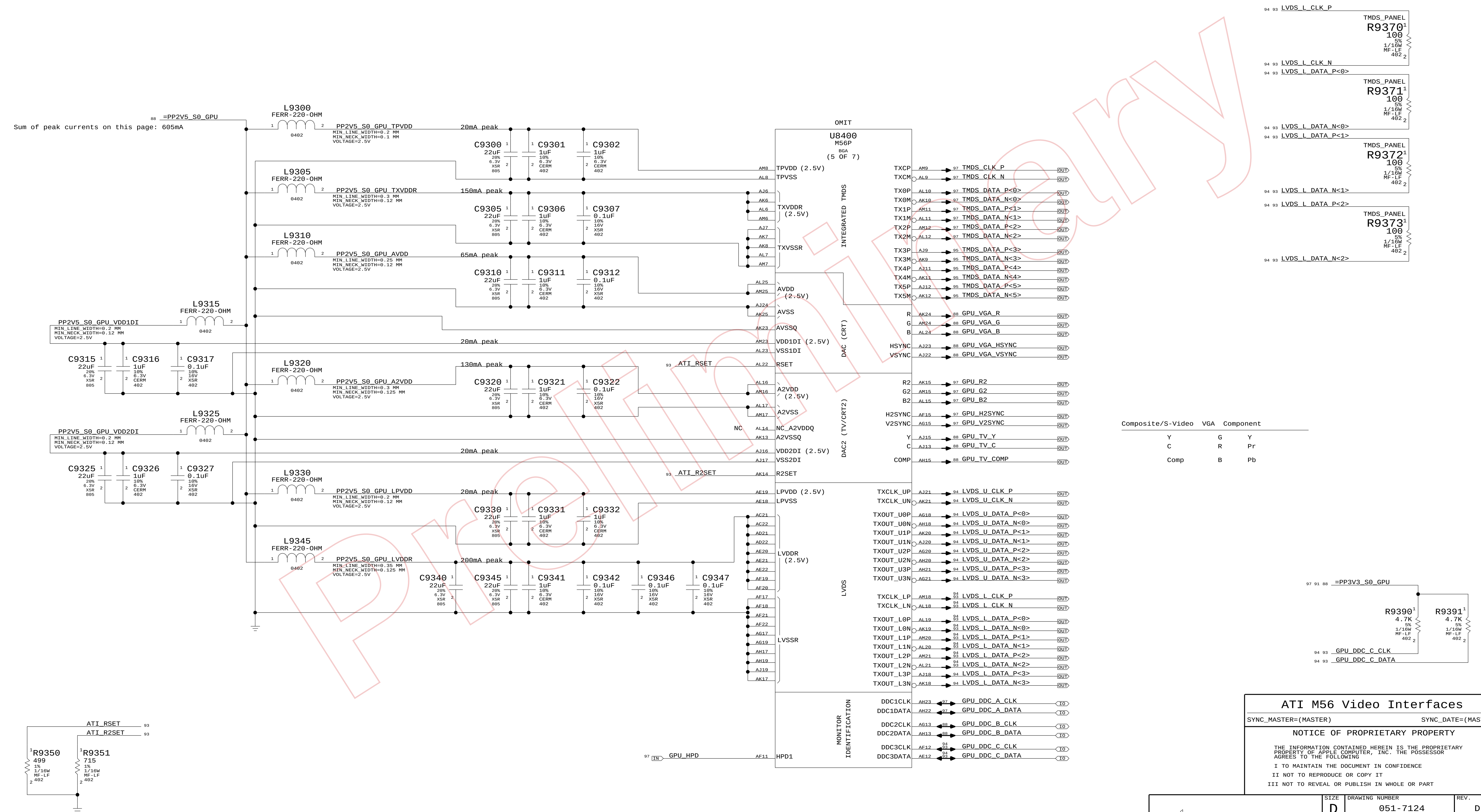
SCALE	SHT	OF
NONE	92	111

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)



ATI M56 Video Interfaces

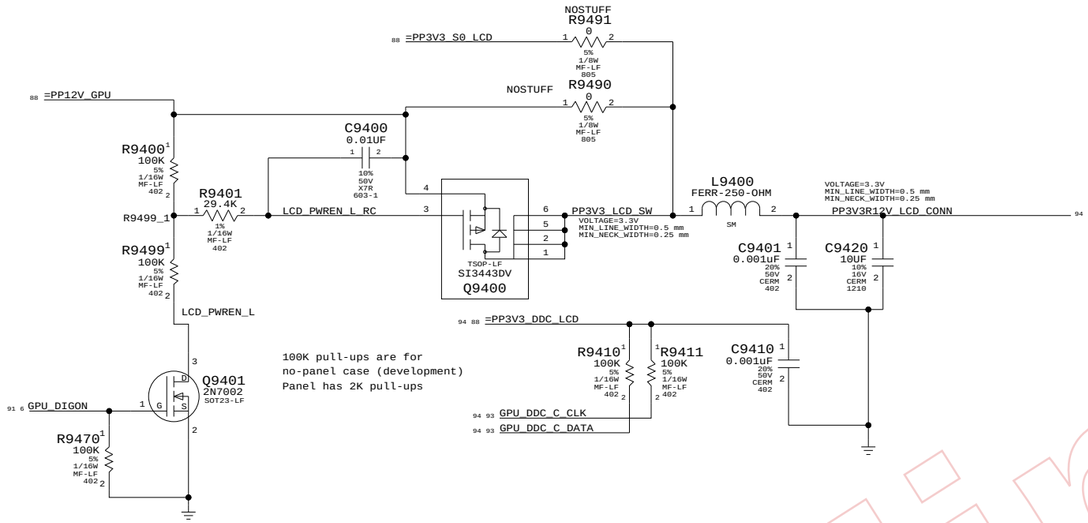
SYNC_MASTER=(MASTER) SYNC_DATE=(MASTER)

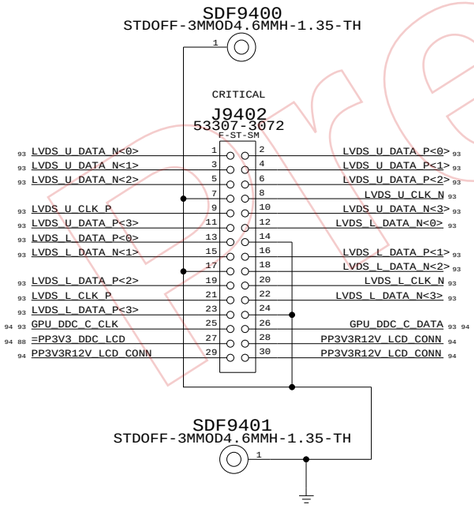
NOTICE OF PROPRIETARY PROPERTY

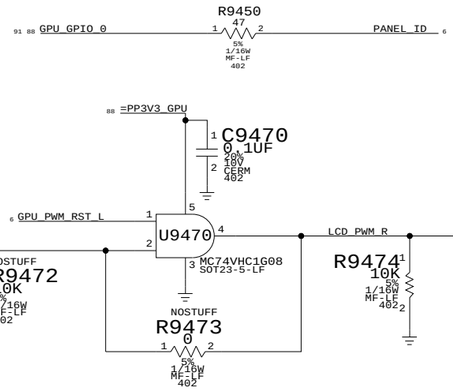
APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D
SCALE NONE	SHT 93	OF 111

LCD (LVDS) INTERFACE







Internal Display Conns

SYNC_MASTER=BOZEMAN SYNC_DATE=04/27/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7124	D
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.

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D	051-7124	D
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DVI INTERFACE

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

PLACE FILTER CLOSE
TO TMDS CONNECTOR

TMDS_DATA_N<0> — R9701 182 1% 1/16W MF-LF 402 — TMDS_DATA_P<0>
TMDS_DATA_N<1> — R9706 182 1% 1/16W MF-LF 402 — TMDS_DATA_P<1>
TMDS_DATA_N<2> — R9707 182 1% 1/16W MF-LF 402 — TMDS_DATA_P<2>
TMDS_CLK_N — R9716 90.9 1% 1/16W MF-LF 402 — R9717 90.9 1% 1/16W MF-LF 402 — TMDS_CLK_P
C9700 22PF 5% 50V CERM 402 (TMDS_CK_TERM)
MIN_LINE_WIDTH=0.3MM
MIN_NECK_WIDTH=0.2MM

NOSTUFF R9700 0
L9700 CRITICAL SYM_VER-1 — 2012M 90-OHM-300MA
TMDS_CONN_DN<0> — DIFFERENTIAL_PAIR=TMDS_CONN_D0
NOSTUFF R9702 0
TMDS_CONN_DP<0> — NO_TEST=TRUE

NOSTUFF R9703 0
L9701 CRITICAL SYM_VER-1 — 2012M 90-OHM-300MA
TMDS_CONN_DN<1> — DIFFERENTIAL_PAIR=TMDS_CONN_D1
NOSTUFF R9705 0
TMDS_CONN_DP<1> — NO_TEST=TRUE

NOSTUFF R9704 0
L9702 CRITICAL SYM_VER-1 — 2012M 90-OHM-300MA
NO_TEST=TRUE
TMDS_CONN_DN<2> — DIFFERENTIAL_PAIR=TMDS_CONN_D2
NOSTUFF R9709 0
TMDS_CONN_DP<2> — NO_TEST=TRUE

NOSTUFF R9708 0
L9703 165-OHM SM-LF CRITICAL SYM_VER-1 — DIFFERENTIAL_PAIR=TMDS_CONN_CLK
TMDS_CONN_CLKN
NOSTUFF R9715 0
TMDS_CONN_CLKP — NO_TEST=TRUE

DVI DDC CURRENT LIMIT
(55mA requirement per DVI spec)

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

OMIT
CRITICAL
J9710 MINI-DVI-M60 F-ST-SM

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

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
514S0125	1	M39 MINI-DVI CONN	J9710	

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

3V LEVEL SHIFTERS

PP5V_S0 — R9710 4.7K 5% 1/16W MF-LF 402 — R9712 4.7K 5% 1/16W MF-LF 402 — =PP3V3_DDC_DVI

DVI_DDC_CLK_UF — R9711 100 5% 1/16W MF-LF 402 — DVI_DDC_CLK — Q9711 2N7002DW-X-F SOT-363 — GPU_DDC_A_CLK
C9711 100PF 5% 50V CERM 402
R9720 10K 5% 1/16W MF-LF 402

DVI_DDC_DATA_UF — R9713 100 5% 1/16W MF-LF 402 — DVI_DDC_DATA — Q9711 2N7002DW-X-F SOT-363 — GPU_DDC_A_DATA
C9713 100PF 5% 50V CERM 402
R9721 10K 5% 1/16W MF-LF 402

DVI_HPD_UF — R9714 20K 5% 1/16W MF-LF 402 — GPU_HPD
R9722 100K 5% 1/16W MF-LF 402 — D9700 CASE425 MMSZ4681XXG

C9710 0.01uF 20% 50V CERM 603
C9714 100pF 5% 50V CERM 402

ANALOG FILTERING
PLACE CLOSE TO CONNECTOR

GPU_B2 — FL9740 LCFILTER CRITICAL SM-220MHZ-LF — VGA_B
R9740 75 1% 1/16W MF-LF 402
C9740 3.3pF 0.25% 50V CERM 402

GPU_G2 — FL9741 LCFILTER CRITICAL SM-220MHZ-LF — VGA_G
R9741 75 1% 1/16W MF-LF 402
C9741 3.3pF 0.25% 50V CERM 402

GPU_R2 — FL9742 LCFILTER CRITICAL SM-220MHZ-LF — VGA_R
R9742 75 1% 1/16W MF-LF 402
C9742 3.3pF 0.25% 50V CERM 402

VGA SYNC BUFFERS

PLACE R9750 & R9751 CLOSE TO DVI CONNECTOR

=PP3V3_S0_GPU — C9750 0.1UF 20% 10V CERM 402

GPU_V2SYNC — U9700 74LC125 TSSOP — GPU_VSYNC_BUF — R9750 33 5% 1/16W MF-LF 402 — VGA_VSYNC

GPU_H2SYNC — U9700 74LC125 TSSOP — GPU_HSYNC_BUF — R9751 33 5% 1/16W MF-LF 402 — VGA_HSYNC (NO_TEST=TRUE)

External Display Conns
SYNC_MASTER=BOZEMAN SYNC_DATE=04/14/2005

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Title:        Basenet Report
Design:       m60
Date:         Jun 23 16:28:15 2006

Base nets and synonyms for m60_lib.M60(@m60_lib.m60(sch_1))
Base Signal          Synonyms                            Location([Zone][dir])

0V7_REF              0V7_REF - @m60_lib.M60              79A3
1V0_REF              1V0_REF - @m60_lib.M60              79A5 80A5 81A5 81B3
1V2REG_BOOT          1V2REG_BOOT - @m60_lib.M60          77C3
1V2REG_ITH           1V2REG_ITH - @m60_lib.M60           77B4
1V2REG_ITH_RC        1V2REG_ITH_RC - @m60_lib.M60        77B4
1V2REG_MODE          1V2REG_MODE - @m60_lib.M60          77C4
1V2REG_PGOOD         1V2REG_PGOOD - @m60_lib.M60         77B3
1V2REG_RT            1V2REG_RT - @m60_lib.M60            77C4
1V2REG_RUNSS         1V2REG_RUNSS - @m60_lib.M60         77B4
1V2REG_SGND          1V2REG_SGND - @m60_lib.M60          77A6
1V2REG_SW            1V2REG_SW - @m60_lib.M60            77B3
1V2REG_SW_FIL        1V2REG_SW_FIL - @m60_lib.M60        77B3
1V2REG_VBIAS         1V2REG_VBIAS - @m60_lib.M60         77C4
1V2REG_VFB           1V2REG_VFB - @m60_lib.M60           77B4
1V3_REF              1V3_REF - @m60_lib.M60              80B3
1V05REG_NB_BOOT      1V05REG_NB_BOOT - @m60_lib.M60      81C6
1V05REG_NB_BOOT_R    1V05REG_NB_BOOT_R - @m60_lib.M60    81C5
1V05REG_NB_COMP      1V05REG_NB_COMP - @m60_lib.M60      81C6
1V05REG_NB_COMP_R    1V05REG_NB_COMP_R - @m60_lib.M60    81C5
1V05REG_NB_FB        1V05REG_NB_FB - @m60_lib.M60        81C5
1V05REG_NB_FB_R      1V05REG_NB_FB_R - @m60_lib.M60      81C2
1V05REG_NB_FS_DIS    1V05REG_NB_FS_DIS - @m60_lib.M60    81C7
1V05REG_NB_LDO_DR    1V05REG_NB_LDO_DR - @m60_lib.M60    81C7
1V05REG_NB_LDO_FB    1V05REG_NB_LDO_FB - @m60_lib.M60    81C7
1V05REG_NB_LGATE     1V05REG_NB_LGATE - @m60_lib.M60     81C6
1V05REG_NB_PVCC5     1V05REG_NB_PVCC5 - @m60_lib.M60     81D7
1V05REG_NB_SNUB      1V05REG_NB_SNUB - @m60_lib.M60      81C3
1V05REG_NB_SWITCHNOD 1V05REG_NB_SWITCHNODE -             81C5
E                    @m60_lib.M60
1V05REG_NB_UGATE     1V05REG_NB_UGATE - @m60_lib.M60     81D6
1V05REG_NB_VCC5      1V05REG_NB_VCC5 - @m60_lib.M60      81D7
1V5REG_PCIE_BOOT     1V5REG_PCIE_BOOT - @m60_lib.M60     80C6
1V5REG_PCIE_BOOT_R   1V5REG_PCIE_BOOT_R - @m60_lib.M60   80C5
1V5REG_PCIE_COMP     1V5REG_PCIE_COMP - @m60_lib.M60     80C6
1V5REG_PCIE_COMP_R   1V5REG_PCIE_COMP_R - @m60_lib.M60   80C5
1V5REG_PCIE_FB       1V5REG_PCIE_FB - @m60_lib.M60       80C5
1V5REG_PCIE_FB_R     1V5REG_PCIE_FB_R - @m60_lib.M60     80C2
1V5REG_PCIE_FS_DIS   1V5REG_PCIE_FS_DIS - @m60_lib.M60   80C7
1V5REG_PCIE_LDO_DR   1V5REG_PCIE_LDO_DR - @m60_lib.M60   80C7
1V5REG_PCIE_LDO_FB   1V5REG_PCIE_LDO_FB - @m60_lib.M60   80C7
1V5REG_PCIE_LGATE    1V5REG_PCIE_LGATE - @m60_lib.M60    80C6
1V5REG_PCIE_PVCC5    1V5REG_PCIE_PVCC5 - @m60_lib.M60    80D7
1V5REG_PCIE_SNUB     1V5REG_PCIE_SNUB - @m60_lib.M60     80C3
1V5REG_PCIE_SWITCHNO 1V5REG_PCIE_SWITCHNODE -            80C5
DE                   @m60_lib.M60
1V5REG_PCIE_UGATE    1V5REG_PCIE_UGATE - @m60_lib.M60    80D6
1V5REG_PCIE_VCC5     1V5REG_PCIE_VCC5 - @m60_lib.M60     80D7
1V8REG_DDR_BOOT      1V8REG_DDR_BOOT - @m60_lib.M60      79D6
1V8REG_DDR_BOOT_R    1V8REG_DDR_BOOT_R - @m60_lib.M60    79D5
1V8REG_DDR_COMP      1V8REG_DDR_COMP - @m60_lib.M60      79C6
1V8REG_DDR_COMP_R    1V8REG_DDR_COMP_R - @m60_lib.M60    79C5
1V8REG_DDR_FB        1V8REG_DDR_FB - @m60_lib.M60        79C5
1V8REG_DDR_FB_R      1V8REG_DDR_FB_R - @m60_lib.M60      79C2
1V8REG_DDR_FS_DIS    1V8REG_DDR_FS_DIS - @m60_lib.M60    79C7
1V8REG_DDR_LDO_DR    1V8REG_DDR_LDO_DR - @m60_lib.M60    79C7
1V8REG_DDR_LDO_FB    1V8REG_DDR_LDO_FB - @m60_lib.M60    79C7
1V8REG_DDR_LGATE     1V8REG_DDR_LGATE - @m60_lib.M60     79C6
1V8REG_DDR_PVCC5     1V8REG_DDR_PVCC5 - @m60_lib.M60     79D7
1V8REG_DDR_SNUB      1V8REG_DDR_SNUB - @m60_lib.M60      79C3
1V8REG_DDR_SWITCHNOD 1V8REG_DDR_SWITCHNODE -             79C5
E                    @m60_lib.M60
1V8REG_DDR_UGATE     1V8REG_DDR_UGATE - @m60_lib.M60     79D6
1V8REG_DDR_VCC5      1V8REG_DDR_VCC5 - @m60_lib.M60      79D7
1V8REG_GPU_BOOT      1V8REG_GPU_BOOT - @m60_lib.M60      78C6
1V8REG_GPU_BOOT_R    1V8REG_GPU_BOOT_R - @m60_lib.M60    78C5
1V8REG_GPU_COMP      1V8REG_GPU_COMP - @m60_lib.M60      78B6
1V8REG_GPU_COMP_R    1V8REG_GPU_COMP_R - @m60_lib.M60    78B6
1V8REG_GPU_FB        1V8REG_GPU_FB - @m60_lib.M60        78B5
1V8REG_GPU_FB_R      1V8REG_GPU_FB_R - @m60_lib.M60      78B2
1V8REG_GPU_FS_DIS    1V8REG_GPU_FS_DIS - @m60_lib.M60    78B7
1V8REG_GPU_LDO_DR    1V8REG_GPU_LDO_DR - @m60_lib.M60    78C7
1V8REG_GPU_LDO_FB    1V8REG_GPU_LDO_FB - @m60_lib.M60    78B7
1V8REG_GPU_LGATE     1V8REG_GPU_LGATE - @m60_lib.M60     78B6
1V8REG_GPU_PVCC5     1V8REG_GPU_PVCC5 - @m60_lib.M60     78C7
1V8REG_GPU_SNUB      1V8REG_GPU_SNUB - @m60_lib.M60      78B3
1V8REG_GPU_SWITCHNOD 1V8REG_GPU_SWITCHNODE -             78C5
E                    @m60_lib.M60
1V8REG_GPU_UGATE     1V8REG_GPU_UGATE - @m60_lib.M60     78C6
1V8REG_GPU_VCC5      1V8REG_GPU_VCC5 - @m60_lib.M60      78C7
2V3_REF              2V3_REF - @m60_lib.M60              83B3
2V5_LDODR_C          2V5_LDODR_C - @m60_lib.M60          57C7
3V3REG_BOOT          3V3REG_BOOT - @m60_lib.M60          57D5
3V3REG_BOOT_R        3V3REG_BOOT_R - @m60_lib.M60        57D5
3V3REG_COMP          3V3REG_COMP - @m60_lib.M60          57C5
3V3REG_COMP_R        3V3REG_COMP_R - @m60_lib.M60        57C5
3V3REG_FB            3V3REG_FB - @m60_lib.M60            57D5
3V3REG_FB_R          3V3REG_FB_R - @m60_lib.M60          57C2
3V3REG_FS_DIS        3V3REG_FS_DIS - @m60_lib.M60        57C6
3V3REG_LDO_DR        3V3REG_LDO_DR - @m60_lib.M60        57D6
3V3REG_LDO_FB        3V3REG_LDO_FB - @m60_lib.M60        57C7
3V3REG_LGATE         3V3REG_LGATE - @m60_lib.M60         57D5
3V3REG_PVCC5         3V3REG_PVCC5 - @m60_lib.M60         57D6
3V3REG_SNUB          3V3REG_SNUB - @m60_lib.M60          57C3
3V3REG_SWITCHNODE    3V3REG_SWITCHNODE - @m60_lib.M60    57D5
3V3REG_UGATE         3V3REG_UGATE - @m60_lib.M60         57D5
3V3REG_VCC5          3V3REG_VCC5 - @m60_lib.M60          57D6
5VREG_BOOT           5VREG_BOOT - @m60_lib.M60           82D5
5VREG_BOOT_R         5VREG_BOOT_R - @m60_lib.M60         82D5
5VREG_COMP           5VREG_COMP - @m60_lib.M60           82C5
5VREG_COMP_R         5VREG_COMP_R - @m60_lib.M60         82C5
5VREG_FB             5VREG_FB - @m60_lib.M60             82D5
5VREG_FB_R           5VREG_FB_R - @m60_lib.M60           82C2
5VREG_FS_DIS         5VREG_FS_DIS - @m60_lib.M60         82C6
5VREG_LDO_DR         5VREG_LDO_DR - @m60_lib.M60         82D6
5VREG_LDO_FB         5VREG_LDO_FB - @m60_lib.M60         82C7
5VREG_LGATE          5VREG_LGATE - @m60_lib.M60          82D5
5VREG_PVCC5          5VREG_PVCC5 - @m60_lib.M60          82D6
5VREG_SNUB           5VREG_SNUB - @m60_lib.M60           82C3
5VREG_SWITCHNODE     5VREG_SWITCHNODE - @m60_lib.M60     82D5
5VREG_UGATE          5VREG_UGATE - @m60_lib.M60          82D5
5VREG_VCC5           5VREG_VCC5 - @m60_lib.M60           82D6
5V_AUDIO_LDODR_C     5V_AUDIO_LDODR_C - @m60_lib.M60     82C7
=I2C_HD_TEMP_SCL     =I2C_HD_TEMP_SCL - @m60_lib.M60     59C1 66B6
                     =I2C_ODD_TEMP_SCL - @m60_lib.M60    59C1 66B4
                     =SMB_THRM_CLK - @m60_lib.M60        10C3 59C1
                     SMB_B_S0_CLK - @m60_lib.M60         58B5 59C2 59D1
                     SMB_GPU_NB_THRM_CLK - @m60_lib.M60  59C1 61C3
                     SMB_B_S0_CLK - @m60_lib.M60         58B5 59C2 59D1
                     =SMB_THRM_CLK - @m60_lib.M60        10C3 59C1
                     =I2C_ODD_TEMP_SCL - @m60_lib.M60    59C1 66B4
=I2C_HD_TEMP_SDA     =I2C_HD_TEMP_SDA - @m60_lib.M60     59C1 66B6
                     =I2C_ODD_TEMP_SDA - @m60_lib.M60    59C1 66B4
                     =SMB_THRM_DATA - @m60_lib.M60       10C3 59C1
                     SMB_B_S0_DATA - @m60_lib.M60        58B5 59C2 59D1
                     SMB_GPU_NB_THRM_DATA - @m60_lib.M60 59C1 61C3
                     SMB_B_S0_DATA - @m60_lib.M60        58B5 59C2 59D1
                     =SMB_THRM_DATA - @m60_lib.M60       10C3 59C1
                     =I2C_ODD_TEMP_SDA - @m60_lib.M60    59C1 66B4
=I2C_MEM_SCL         =I2C_MEM_SCL - @m60_lib.M60         27D6 28A6 29A6
                     =SMB_AIRPORT_CLK - @m60_lib.M60     27D6 53B4
                     SMB_CK410_CLK - @m60_lib.M60        27D6 33B6
                     SMB_CLK - @m60_lib.M60              23D5 27B8 27D7
                     SMB_CK410_CLK - @m60_lib.M60        27D6 33B6
                     =SMB_AIRPORT_CLK - @m60_lib.M60     27D6 53B4
=I2C_MEM_SDA         =I2C_MEM_SDA - @m60_lib.M60         27D6 28A6 29A6
                     =SMB_AIRPORT_DATA - @m60_lib.M60    27C6 53B4
                     SMB_CK410_DATA - @m60_lib.M60       27D6 33B6
                     SMB_DATA - @m60_lib.M60             23D5 27B8 27D7
                     SMB_CK410_DATA - @m60_lib.M60       27D6 33B6
                     =SMB_AIRPORT_DATA - @m60_lib.M60    27C6 53B4
=PP0V9_S0_MEMVTT_LDO =PP0V9_S0_MEMVTT_LDO - @m60_lib.M60 6D4 31B3
                     =PP0V9_S0_MEM_TERM - @m60_lib.M60   6D4 30D4
                     PP0V9_S0 - @m60_lib.M60             6D6 79A3
                     =PP0V9_S0_MEM_TERM - @m60_lib.M60   6D4 30D4
=PP1V2_S0_GPU_VDDPLL =PP1V2_S0_GPU_VDDPLL - @m60_lib.M60 88C6 91B8
                     =PPVIO_S0_PCIE - @m60_lib.M60       84A2 88C6
                     =PP1V2_S0_REG - @m60_lib.M60        77A1 88C6
                     =PP1V2_S0_PCIE_GPU_PVDD -           84C8 88D6
                     @m60_lib.M60
                     =PP1V2_S0_PCIE_GPU_VDDR -           84C8 88D6
                     @m60_lib.M60
                     PP1V2_GPU_IO_S0 - @m60_lib.M60      88D8
                     =PPVIO_S0_PCIE - @m60_lib.M60       84A2 88C6
                     =PP1V2_S0_REG - @m60_lib.M60        77A1 88C6
                     =PP1V2_S0_PCIE_GPU_VDDR -           84C8 88D6
                     @m60_lib.M60
                     =PP1V2_S0_PCIE_GPU_PVDD -           84C8 88D6
                     @m60_lib.M60
=PP1V2_S3_ENET       =PP1V2_S3_ENET - @m60_lib.M60       41A8 41D6 42B5
                     PP1V2_S3_ENET - @m60_lib.M60        42B5
=PP1V2_S3_LAN        =PP1V2_S3_LAN - @m60_lib.M60        6D3 42B8
                     PP1V2_S3 - @m60_lib.M60             6D4 77B1
=PP1V8_S0_FB_VDD     =PP1V8_S0_FB_VDD - @m60_lib.M60     88B6 89D5 89D8 90D5 90D8
                     =PP1V8_S0_FB_VDDQ - @m60_lib.M60    88B6 89D5 89D8 90D5 90D8
                     =PP1V8R2V0_S0_FB_GPU - @m60_lib.M60 86B8 87A5 87A8 87B5 87B8
                                                         88B6
                     PP1V8_S0 - @m60_lib.M60             78C2 88B6
                     =PP1V8R3V3_S0_GPU_VDDR5 -           88B6 91B7
                     @m60_lib.M60
                     =PP1V8R3V3_S0_GPU_VDDR4 -           88B6 91B7
                     @m60_lib.M60
                     PP1V8_S0 - @m60_lib.M60             78C2 88B6
                     PP1V8R2V0_S0_FB_GPU - @m60_lib.M60  88B8
                     =PP1V8_S0_FB_VDDQ - @m60_lib.M60    88B6 89D5 89D8 90D5 90D8
                     =PP1V8R3V3_S0_GPU_VDDR5 -           88B6 91B7
                     @m60_lib.M60
                     =PP1V8R3V3_S0_GPU_VDDR4 -           88B6 91B7
                     @m60_lib.M60
                     =PP1V8R2V0_S0_FB_GPU - @m60_lib.M60 86B8 87A5 87A8 87B5 87B8
                                                         88B6
=PP1V8_S3_MEM_NB     =PP1V8_S3_MEM_NB - @m60_lib.M60     6D3 6D3 14C2 16B6 19B8
                                                         19D7
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                     =PP1V8_S3_MEM - @m60_lib.M60        5C4 6D3 28B2 28C8 28D3
                                                         28D6 29B2 29D3 29D6
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                                                         28D6 29B2 29D3 29D6
                     =PP1V8_S0_MEMVTT - @m60_lib.M60     6D3 31C7
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BG                   @m60_lib.M60
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                     PP2V5_S0 - @m60_lib.M60             6B6 83A3 83B7 88C8
                     =PP2V5_S0_GPU_VDD25 - @m60_lib.M60  88B6 91C6
                     =PP2V5_S0_GPU_VDDC_CT -             88B6 91C6
                     @m60_lib.M60
                     =PP2V5_S0_GPU_PVDD - @m60_lib.M60   88B6 91A8
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                     =PP2V5_S0_GPU_VDDC_CT -             88B6 91C6
                     @m60_lib.M60
                     =PP2V5_S0_GPU_VDD25 - @m60_lib.M60  88B6 91C6
                     =PP2V5_S0_GPU_PVDD - @m60_lib.M60   88B6 91A8
                     =PP2V5_S0_GPU - @m60_lib.M60        88B6 93C8
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                     PP2V5_S3_ENET - @m60_lib.M60        42C4 43D8
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                                                         20B4 20B4
                     =PP3V3_DDC_DVI - @m60_lib.M60       88C6 97D2
                     =PP3V3_DDC_LCD - @m60_lib.M60       88C6 94A7 94C7
                     =PP3V3_GPU - @m60_lib.M60           88C6 94B3
                     PP3V3_S0 - @m60_lib.M60             6B6 10D2 26B7 26C6 41D8
                                                         59D3 61C3 76D6 83D7 88C8
                     =PP3V3_S0_GPU - @m60_lib.M60        88C6 91D2 93A1 97B5
                     =PP3V3_S0_GPU_VDDR3 - @m60_lib.M60  88C6 88D3 91C6
                     =PP3V3_S0_LCD - @m60_lib.M60        88C6 94D7
                     =PP3V3_S0_AIRPORT - @m60_lib.M60    6A4 53C2
                     =PP3V3_S0_PCI - @m60_lib.M60        6A4 44D5
                     =PP3V3_S0_AUDIO - @m60_lib.M60      6A4 68D7 72A6 72C8 72D5
                                                         73B8 74B5 74C5 74D6
                     =PP3V3_S0_IMVP - @m60_lib.M60       6A4 75D8
                     =PP3V3_S0_CK410 - @m60_lib.M60      6A4 33C8 33D3 33D8 34D4
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                     =PP3V3_S0_HD_TSENS - @m60_lib.M60   6B4 66B5
                     =PP3V3_S0_FAN - @m60_lib.M60        6B4 59A8 59B7 65B7 65C7
                                                         66C7
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                     @m60_lib.M60
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                     @m60_lib.M60
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                                                         59D3 61C3 76D6 83D7 88C8
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                     @m60_lib.M60
                     =PP3V3_S0_SB_VCC3_3_PCI -           6B4 24B3 25A3
                     @m60_lib.M60
                     =PP3V3_S0_SB_VCC3_3_IDE -           6B4 24C3 25B3
                     @m60_lib.M60
                     =PP3V3_S0_SB_VCC3_3 - @m60_lib.M60  6B4 24B5 24B5 25B8 25C6
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                     =PP3V3_S0_SB_PCI - @m60_lib.M60     6B4 26D1
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                     =PP3V3_S0_PCI - @m60_lib.M60        6A4 44D5
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                     =PP3V3_S0_NB_VCC_HV - @m60_lib.M60  6B4 17C6 19A8 19C7
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                     =PP3V3_S0_IMVP - @m60_lib.M60       6A4 75D8
                     =PP3V3_S0_HD_TSENS - @m60_lib.M60   6B4 66B5
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                     =PP3V3_S0_GPUBBP - @m60_lib.M60     88C6
                     =PP3V3_S0_GPUBBN - @m60_lib.M60     88C6
                     =PP3V3_S0_GPUBBCTL - @m60_lib.M60   88C6
                     =PP3V3_S0_GPU - @m60_lib.M60        88C6 91D2 93A1 97B5
                     =PP3V3_S0_FAN - @m60_lib.M60        6B4 59A8 59B7 65B7 65C7
                                                         66C7
                     =PP3V3_S0_CK410 - @m60_lib.M60      6A4 33C8 33D3 33D8 34D4
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                                                         83C1
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                     =PP3V3_S3_TPM - @m60_lib.M60        6D3 67C2
                     =PP3V3_S3_ENET - @m60_lib.M60       6D3 41A5 41B3 41C3 41D6
                                                         41D8 42D8
                     PP3V3_S3 - @m60_lib.M60             6A7 6D4 53C4 59C8 59D3
                                                         83C1
                     =PP3V3_S3_VGASYNC - @m60_lib.M60    6C3
                     =PP3V3_S3_TPM - @m60_lib.M60        6D3 67C2
                     =PP3V3_S3_ENET - @m60_lib.M60       6D3 41A5 41B3 41C3 41D6
                                                         41D8 42D8
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=PP3V3_S5_2V5_LDO    =PP3V3_S5_2V5_LDO - @m60_lib.M60    6D1 57D8
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                                                         26C4 57D1 59A8 65B7 65D7
                                                         66D7 76D2 77B8 77C7 77C8
                                                         77C8 77D8 79A3 79A5 80A5
                                                         80B3 81A5 81A5 83B3 83C1
                                                         83D7
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                     =PP3V3_S5_SMC - @m60_lib.M60        6D1 58C2 58D3 58D4 59A4
                                                         59A5 59C4 59D3 59D8
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                                                         45D6 46A8
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                     =PP3V3_S5_SB_3V3_1V5_VCCSUSHDA -    6D1 24C3
                     @m60_lib.M60
                     =PP3V3_S5_SB_VCCSUS3_3_USB -        6D1 24B3 25D1
                     @m60_lib.M60
                     =PP3V3_S5_SB_VCCSUS3_3 -            6D1 24A5 24B3 25B6 25D1
                     @m60_lib.M60
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                     =PP3V3_S5_SB - @m60_lib.M60         6D1 23A7 23B3 23B7 23D4
                                                         23D8 25C8 26D8
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                                                         26C4 57D1 59A8 65B7 65D7
                                                         66D7 76D2 77B8 77C7 77C8
                                                         77C8 77D8 79A3 79A5 80A5
                                                         80B3 81A5 81A5 83B3 83C1
                                                         83D7
                     =PP3V3_S5_SMC - @m60_lib.M60        6D1 58C2 58D3 58D4 59A4
                                                         59A5 59C4 59D3 59D8
                     =PP3V3_S5_SB_VCCSUS3_3_USB -        6D1 24B3 25D1
                     @m60_lib.M60
                     =PP3V3_S5_SB_VCCSUS3_3 -            6D1 24A5 24B3 25B6 25D1
                     @m60_lib.M60
                     =PP3V3_S5_SB_USB - @m60_lib.M60     6D1 22D8
                     =PP3V3_S5_SB_PM - @m60_lib.M60      6D1 11B5 23D1
                     =PP3V3_S5_SB_IO - @m60_lib.M60      6D1 22C6 27C6
                     =PP3V3_S5_SB_3V3_1V5_VCCSUSHDA -    6D1 24C3
                     @m60_lib.M60
                     =PP3V3_S5_SB - @m60_lib.M60         6D1 23A7 23B3 23B7 23D4
                                                         23D8 25C8 26D8
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                     =PP3V3_S5_FW - @m60_lib.M60         6D1 44A6 44B2 44D5 44D7
                                                         45D6 46A8
                     =PP3V3_S5_DEBUG - @m60_lib.M60      6D1 60D4
=PP4V5_S0_AUDIO_ANAL =PP4V5_S0_AUDIO_ANALOG -            6A4 68A6
OG                   @m60_lib.M60
                     PP4V5_S0_AUDIO_ANALOG -             6A6 83D5
                     @m60_lib.M60
=PP5V_S0_DEBUG       =PP5V_S0_DEBUG - @m60_lib.M60       6A4 60D4
                     =PP5V_S0_DVI_DDC - @m60_lib.M60     88A6 97D6
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                     PP5V_S0 - @m60_lib.M60              6A6 75D7 83B4 88B8 97D3
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                     =PP5V_S0_SB - @m60_lib.M60          6A4 25D8
                     =PP5V_S0_PATA - @m60_lib.M60        6A4 38C4 38D3
                     PP5V_S0 - @m60_lib.M60              6A6 75D7 83B4 88B8 97D3
                     =PP5V_S0_SB - @m60_lib.M60          6A4 25D8
                     =PP5V_S0_PATA - @m60_lib.M60        6A4 38C4 38D3
                     =PP5V_S0_GPUISENS - @m60_lib.M60    85D2 88A6
                     =PP5V_S0_GPUBBCTL - @m60_lib.M60    88B6
                     =PP5V_S0_DVI_DDC - @m60_lib.M60     88A6 97D6
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                     PP5V_S3 - @m60_lib.M60              6C4 60B6 83C1
                     =PP5V_S3_BNDI - @m60_lib.M60        6C3 47D4
                     =PP5V_S3_USB - @m60_lib.M60         6C3 47C8
                     PP5V_S3 - @m60_lib.M60              6C4 60B6 83C1
                     =PP5V_S3_USB - @m60_lib.M60         6C3 47C8
                     =PP5V_S3_BNDI - @m60_lib.M60        6C3 47D4
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                     PP5V_S5 - @m60_lib.M60              5D2 6D2 59A5 79B3 80B3
                                                         81B3 82D1 83B3 83C6 83D1
                     =PP5V_S5_SB - @m60_lib.M60          6D1 25C8
                     PP5V_S5 - @m60_lib.M60              5D2 6D2 59A5 79B3 80B3
                                                         81B3 82D1 83B3 83C6 83D1
                     =PP5V_S5_SB - @m60_lib.M60          6D1 25C8
=PP12V_GPU           =PP12V_GPU - @m60_lib.M60           88B6 94C8
                     PP12V_S0 - @m60_lib.M60             6A6 83B5 88B8
                     =PP12V_S0_INVERTER - @m60_lib.M60   6A4 6D8
                     =PP12V_S0_SATA - @m60_lib.M60       6A4 6D8
                     =PP12V_S0_FAN - @m60_lib.M60        6A4 65B6 65D7 66D6
                     PP12V_S0 - @m60_lib.M60             6A6 83B5 88B8
                     =PP12V_S0_FAN - @m60_lib.M60        6A4 65B6 65D7 66D6
=PP12V_S0_AUDIO_SPKR =PP12V_S0_AUDIO_SPKRAMP -           6A4 72D8
AMP                  @m60_lib.M60
                     PP12V_S0_AUDIO_SPKRAMP -            6A5
                     @m60_lib.M60
=PP12V_S5_CPU        =PP12V_S5_CPU - @m60_lib.M60        6C1 76D8
                     =PPVIN_S0_GPUVCORE - @m60_lib.M60   85D7 88B6
                     PP12V_S5 - @m60_lib.M60             5D2 6C2 6D6 57D6 77C8
                                                         77D8 78C7 79D7 80D7 81D7
                                                         82D6 83B6 83B7 83B8 83C3
                                                         83D3 83D5 83D7 88B8
                     =PP12V_S5_FW - @m60_lib.M60         6C1 46D7
                     PP12V_S5 - @m60_lib.M60             5D2 6C2 6D6 57D6 77C8
                                                         77D8 78C7 79D7 80D7 81D7
                                                         82D6 83B6 83B7 83B8 83C3
                                                         83D3 83D5 83D7 88B8
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                     =PP12V_S5_FW - @m60_lib.M60         6C1 46D7
=PP12V_S5_FW_PHY     =PP12V_S5_FW_PHY - @m60_lib.M60     44C2 46D5
                     PP12V_FW - @m60_lib.M60             46D6
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                     =PPVCORE_S0_GPU - @m60_lib.M60      86D8 88D6 91A7
                     PP1V0R1V2_S0_GPU - @m60_lib.M60     59B4 88D8
                     =PPVCORE_S0_GPU_REG - @m60_lib.M60  85C1 88D6
                     PPBB_S0_GPU - @m60_lib.M60          88C8
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ACZ_RST_L            ACZ_RST_L - @m60_lib.M60            21C7 68C7
ACZ_SDATAIN<0>       ACZ_SDATAIN<0> - @m60_lib.M60       21C7 68D7
ACZ_SDATAIN_CHIP     ACZ_SDATAIN_CHIP - @m60_lib.M60     68C6
ACZ_SDATAOUT         ACZ_SDATAOUT - @m60_lib.M60         21C7 68D7
ACZ_SYNC             ACZ_SYNC - @m60_lib.M60             21C7 68D7
AIRPORT_CLK100M_PCIE AIRPORT_CLK100M_PCIE_N -            34B4 34C2 53C6
_N                   @m60_lib.M60
AIRPORT_CLK100M_PCIE AIRPORT_CLK100M_PCIE_P -            34B4 34C2 53C6
_P                   @m60_lib.M60
AIRPORT_CONN_CLK     AIRPORT_CONN_CLK - @m60_lib.M60     53B5
AIRPORT_CONN_DATA    AIRPORT_CONN_DATA - @m60_lib.M60    53B5
AIRPORT_RST_L        AIRPORT_RST_L - @m60_lib.M60        6A7 53C5
AIRPORT_WAKE_L       AIRPORT_WAKE_L - @m60_lib.M60       53C6
ALL_SYS_PWRGD        ALL_SYS_PWRGD - @m60_lib.M60        26D5 58D7 77B6
ALS_GAIN             ALS_GAIN - @m60_lib.M60             58B5 59C6
                     NC_ALS_GAIN - @m60_lib.M60          59C5
ALS_LEFT             ALS_LEFT - @m60_lib.M60             58A7 59D5
                     TP_ALS_LEFT - @m60_lib.M60          59D3
ALS_RIGHT            ALS_RIGHT - @m60_lib.M60            58A7 59D5
                     TP_ALS_RIGHT - @m60_lib.M60         59D3
ATI_DVPCLK           ATI_DVPCLK - @m60_lib.M60           91C3 95A6
                     TP_ATI_DVPCLK - @m60_lib.M60        95A8
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ATI_DVPDATA<19>      ATI_DVPDATA<19> - @m60_lib.M60      91B3 95C6
ATI_DVPDATA<20>      ATI_DVPDATA<20> - @m60_lib.M60      91B3 95C6
ATI_DVPDATA<21>      ATI_DVPDATA<21> - @m60_lib.M60      91B3 95C6
ATI_DVPDATA<22>      ATI_DVPDATA<22> - @m60_lib.M60      91A3 95C6
ATI_DVPDATA<23>      ATI_DVPDATA<23> - @m60_lib.M60      91A3 95C6
ATI_R2SET            ATI_R2SET - @m60_lib.M60            93A8 93B5
ATI_RSET             ATI_RSET - @m60_lib.M60             93A8 93B5
ATI_TDIODE_N         ATI_TDIODE_N - @m60_lib.M60         61C5 91A3
ATI_TDIODE_P         ATI_TDIODE_P - @m60_lib.M60         61C5 91A3
ATI_TESTEN           ATI_TESTEN - @m60_lib.M60           91A3
ATI_VREFG            ATI_VREFG - @m60_lib.M60            91D3
AUDLINDETH           AUDLINDETH - @m60_lib.M60           74D5
AUDSAMPCPN           AUDSAMPCPN - @m60_lib.M60           72C4
AUDSAMPCPP           AUDSAMPCPP - @m60_lib.M60           72C4
AUDSAMPINLN          AUDSAMPINLN - @m60_lib.M60          72D6
AUDSAMPINLP          AUDSAMPINLP - @m60_lib.M60          72C6
AUDSAMPINRN          AUDSAMPINRN - @m60_lib.M60          72C6
AUDSAMPINRP          AUDSAMPINRP - @m60_lib.M60          72C6
AUDSAMPOURTP         AUDSAMPOURTP - @m60_lib.M60         72C4
AUDSAMPOUTLN         AUDSAMPOUTLN - @m60_lib.M60         72C4
AUDSAMPOUTLP         AUDSAMPOUTLP - @m60_lib.M60         72C4
AUDSAMPOUTRN         AUDSAMPOUTRN - @m60_lib.M60         72C4
AUD_ANALOG_FILT_1    AUD_ANALOG_FILT_1 - @m60_lib.M60    68C4
AUD_ANALOG_FILT_2    AUD_ANALOG_FILT_2 - @m60_lib.M60    68C4
AUD_BI_PORT_A_L      AUD_BI_PORT_A_L - @m60_lib.M60      68C1 74B8
AUD_BI_PORT_A_R      AUD_BI_PORT_A_R - @m60_lib.M60      68C1 74B8
AUD_BI_PORT_B_L      AUD_BI_PORT_B_L - @m60_lib.M60      68B2 68C1 74A3
                     AUD_BI_PORT_B_R - @m60_lib.M60      68B1 68C1
AUD_BI_PORT_C_L      AUD_BI_PORT_C_L - @m60_lib.M60      68C7 72D8
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AUD_BI_PORT_C_R	AUD_BI_PORT_C_R - @m60_lib.M60	68C7 72C8
AUD_BI_PORT_F_L	AUD_BI_PORT_F_L - @m60_lib.M60	68C1 74C8
AUD_BI_PORT_F_R	AUD_BI_PORT_F_R - @m60_lib.M60	68C1 74C8
AUD_BYPASS	AUD_BYPASS - @m60_lib.M60	68C4
AUD_DEBOUNCE	AUD_DEBOUNCE - @m60_lib.M60	72B7
AUD_GPIO_0	AUD_GPIO_0 - @m60_lib.M60	68C7 72B8
AUD_GPIO_1	AUD_GPIO_1 - @m60_lib.M60	68C7 74C5
AUD_LI_DET_EMI	AUD_LI_DET_EMI - @m60_lib.M60	73D6
AUD_LI_DET_H	AUD_LI_DET_H - @m60_lib.M60	73D4 74D6
AUD_LI_DET_JACK	AUD_LI_DET_JACK - @m60_lib.M60	73D8
AUD_LI_GND_EMI	AUD_LI_GND_EMI - @m60_lib.M60	73D6
AUD_LI_GND_JACK	AUD_LI_GND_JACK - @m60_lib.M60	73D8
AUD_LI_L	AUD_LI_L - @m60_lib.M60	73D4 74C5
AUD_LI_L_EMI	AUD_LI_L_EMI - @m60_lib.M60	73D6
AUD_LI_L_JACK	AUD_LI_L_JACK - @m60_lib.M60	73D8
AUD_LI_R	AUD_LI_R - @m60_lib.M60	73D4 74C5
AUD_LI_R_EMI	AUD_LI_R_EMI - @m60_lib.M60	73D6
AUD_LI_R_JACK	AUD_LI_R_JACK - @m60_lib.M60	73D8
AUD_LO_DET1_1	AUD_LO_DET1_1 - @m60_lib.M60	74A4 74B2
AUD_LO_DET1_INV	AUD_LO_DET1_INV - @m60_lib.M60	74B3
AUD_LO_DET2_1	AUD_LO_DET2_1 - @m60_lib.M60	74B4
AUD_LO_GND_JACK	AUD_LO_GND_JACK - @m60_lib.M60	73A4
AUD_LO_L	AUD_LO_L - @m60_lib.M60	73B8 74B5
AUD_LO_L_EMI	AUD_LO_L_EMI - @m60_lib.M60	73B7
AUD_LO_L_JACK	AUD_LO_L_JACK - @m60_lib.M60	73B4
AUD_LO_R	AUD_LO_R - @m60_lib.M60	73A8 74B5
AUD_LO_R_EMI	AUD_LO_R_EMI - @m60_lib.M60	73A7
AUD_LO_R_JACK	AUD_LO_R_JACK - @m60_lib.M60	73B4
AUD_LO_TIP	AUD_LO_TIP - @m60_lib.M60	73A8 74B5
AUD_LO_TIP_EMI	AUD_LO_TIP_EMI - @m60_lib.M60	73A7
AUD_LO_TIP_JACK	AUD_LO_TIP_JACK - @m60_lib.M60	73B4
AUD_LO_TYPE	AUD_LO_TYPE - @m60_lib.M60	73B8 74A5
AUD_LO_TYPE_EMI	AUD_LO_TYPE_EMI - @m60_lib.M60	73B7
AUD_LO_TYPE_JACK	AUD_LO_TYPE_JACK - @m60_lib.M60	73B4
AUD_MAX9714_CHOLD	AUD_MAX9714_CHOLD - @m60_lib.M60	72C4
AUD_MAX9714_VREG	AUD_MAX9714_VREG - @m60_lib.M60	72C5
AUD_MIC_INTERCON	AUD_MIC_INTERCON - @m60_lib.M60	74A4
AUD_MIC_IN_N	AUD_MIC_IN_N - @m60_lib.M60	73C4 74A6
AUD_MIC_IN_N_CONN	AUD_MIC_IN_N_CONN - @m60_lib.M60	47C2 73C2
AUD_MIC_IN_N_EMI	AUD_MIC_IN_N_EMI - @m60_lib.M60	73C3
AUD_MIC_IN_P	AUD_MIC_IN_P - @m60_lib.M60	73C4 74A6
AUD_MIC_IN_P_CONN	AUD_MIC_IN_P_CONN - @m60_lib.M60	47C2 73C2
AUD_MIC_IN_P_EMI	AUD_MIC_IN_P_EMI - @m60_lib.M60	73C3
AUD_MIC_P1	AUD_MIC_P1 - @m60_lib.M60	74A4
AUD_PORT_A_DET_L	AUD_PORT_A_DET_L - @m60_lib.M60	74B2
AUD_PORT_A_L1	AUD_PORT_A_L1 - @m60_lib.M60	74B7 74C4 74D4
AUD_PORT_A_L2	AUD_PORT_A_L2 - @m60_lib.M60	74B7 74C3 74D3
AUD_PORT_A_R1	AUD_PORT_A_R1 - @m60_lib.M60	74B7 74C4 74D4
AUD_PORT_A_R2	AUD_PORT_A_R2 - @m60_lib.M60	74B7 74C3 74D3
AUD_PORT_E_DET_L	AUD_PORT_E_DET_L - @m60_lib.M60	74B1
AUD_PORT_F_DET_L	AUD_PORT_F_DET_L - @m60_lib.M60	74D4
AUD_PORT_F_L1	AUD_PORT_F_L1 - @m60_lib.M60	74C7
AUD_PORT_F_R1	AUD_PORT_F_R1 - @m60_lib.M60	74C7
AUD_SAMP_FS1	AUD_SAMP_FS1 - @m60_lib.M60	72A6 72C5
AUD_SAMP_FS2	AUD_SAMP_FS2 - @m60_lib.M60	72A6 72C5
AUD_SAMP_G1	AUD_SAMP_G1 - @m60_lib.M60	72A6 72C5
AUD_SAMP_G2	AUD_SAMP_G2 - @m60_lib.M60	72A6 72C5
AUD_SAMP_INL_N	AUD_SAMP_INL_N - @m60_lib.M60	72C5
AUD_SAMP_INL_P	AUD_SAMP_INL_P - @m60_lib.M60	72C5
AUD_SAMP_INR_N	AUD_SAMP_INR_N - @m60_lib.M60	72C5
AUD_SAMP_INR_P	AUD_SAMP_INR_P - @m60_lib.M60	72C5
AUD_SAMP_SHDN_L	AUD_SAMP_SHDN_L - @m60_lib.M60	72C5
AUD_SENSE_A	AUD_SENSE_A - @m60_lib.M60	68C1 74C5 74D7
AUD_SENSE_B	AUD_SENSE_B - @m60_lib.M60	68C1 74C5 74D6 74D7
AUD_SPDIFIN_JACK	AUD_SPDIFIN_JACK - @m60_lib.M60	73D7
AUD_SPDIF_GND_IN	AUD_SPDIF_GND_IN - @m60_lib.M60	73C7
AUD_SPDIF_GND_OUT	AUD_SPDIF_GND_OUT - @m60_lib.M60	73A3
AUD_SPDIF_IN	AUD_SPDIF_IN - @m60_lib.M60	68C1 73D4
AUD_SPDIF_OUT	AUD_SPDIF_OUT - @m60_lib.M60	68D1 73B8
AUD_SPDIF_OUT_CHIP	AUD_SPDIF_OUT_CHIP - @m60_lib.M60	68D4
AUD_SPKR_OUTL_N	AUD_SPKR_OUTL_N - @m60_lib.M60	72C1 73C3
AUD_SPKR_OUTL_P	AUD_SPKR_OUTL_P - @m60_lib.M60	72C1 73C3
AUD_SPKR_OUTR_N	AUD_SPKR_OUTR_N - @m60_lib.M60	72C1 73D3
AUD_SPKR_OUTR_P	AUD_SPKR_OUTR_P - @m60_lib.M60	72C1 73C3
AUD_TYPE_DET_EN	AUD_TYPE_DET_EN - @m60_lib.M60	74B3
AUD_VREF_FILT	AUD_VREF_FILT - @m60_lib.M60	68C4
AUD_VREF_PORT_B	AUD_VREF_PORT_B - @m60_lib.M60	68C1 74A2
BAL_IN_COM	BAL_IN_COM - @m60_lib.M60	68C7 74A7
BAL_IN_L	BAL_IN_L - @m60_lib.M60	68C7 74A7
BAL_IN_R	BAL_IN_R - @m60_lib.M60	68C7 74A7
BAT_1	BAT_1 - @m60_lib.M60	26C8
BAT_2	BAT_2 - @m60_lib.M60	26C8
BEEP	BEEP - @m60_lib.M60	68C6
BIOS_REC	BIOS_REC - @m60_lib.M60	23A6 23C5
BOOT_LPC_SPI_L	BOOT_LPC_SPI_L - @m60_lib.M60	22B3 58C7 60C4
C8509_P1	C8509_P1 - @m60_lib.M60	85C5
CK410_27M_NONSPREAD	CK410_27M_NONSPREAD - @m60_lib.M60	34A4 92C7
CK410_27M_SPREAD	CK410_27M_SPREAD - @m60_lib.M60	34A4 92C5
	GPU_GPIO_16 - @m60_lib.M60	91C3 92C3
CK410_CLK14P3M_TIMER	CK410_CLK14P3M_TIMER - @m60_lib.M60	33A4 34D6
CK410_CPU0_N	CK410_CPU0_N - @m60_lib.M60	33C4 34B6
CK410_CPU0_P	CK410_CPU0_P - @m60_lib.M60	33C4 34B6
CK410_CPU1_N	CK410_CPU1_N - @m60_lib.M60	33C4 34B6
CK410_CPU1_P	CK410_CPU1_P - @m60_lib.M60	33C4 34B6
CK410_CPU2_ITP_SRC10_N	CK410_CPU2_ITP_SRC10_N - @m60_lib.M60	33C4 34B6
CK410_CPU2_ITP_SRC10_P	CK410_CPU2_ITP_SRC10_P - @m60_lib.M60	33C4 34B6
CK410_DOT96_27M_NONSPREAD_P	CK410_DOT96_27M_NONSPREAD_P - @m60_lib.M60	33A4 34A6
CK410_DOT96_27M_SPREAD_N	CK410_DOT96_27M_SPREAD_N - @m60_lib.M60	33A4 34A6
CK410_FSA	CK410_FSA - @m60_lib.M60	34B8 34C4
CK410_FSB_TEST_MODE	CK410_FSB_TEST_MODE - @m60_lib.M60	33C6 34A8
CK410_FSC	CK410_FSC - @m60_lib.M60	34A8 34D4
CK410_IREF	CK410_IREF - @m60_lib.M60	33B6
CK410_LVDS_N	CK410_LVDS_N - @m60_lib.M60	33B4 34A6
	TP_CK410_LVDS_N - @m60_lib.M60	34A4
CK410_LVDS_P	CK410_LVDS_P - @m60_lib.M60	33B4 34A6
	TP_CK410_LVDS_P - @m60_lib.M60	34A4
CK410_PCI1_CLK	CK410_PCI1_CLK - @m60_lib.M60	33B6 34C6
CK410_PCI2_CLK	CK410_PCI2_CLK - @m60_lib.M60	33B6 34C6
CK410_PCI3_CLK	CK410_PCI3_CLK - @m60_lib.M60	33B6 34C6
CK410_PCI4_CLK	CK410_PCI4_CLK - @m60_lib.M60	33B6 34C6
CK410_PCI5_FCTSEL1	CK410_PCI5_FCTSEL1 - @m60_lib.M60	33B6 34D6
CK410_PCIF0_CLK	CK410_PCIF0_CLK - @m60_lib.M60	33B8 34B6
CK410_PCIF1_ITP_EN	CK410_PCIF1_ITP_EN - @m60_lib.M60	33B8 34B6
CK410_PD_VTT_PWRGD_L	CK410_PD_VTT_PWRGD_L - @m60_lib.M60	26A8 33A4
	VR_PWRGD_CK410_L - @m60_lib.M60	26A7 75C6
CK410_REF1_FCTSEL0	CK410_REF1_FCTSEL0 - @m60_lib.M60	33A4 34C6
CK410_SRC1_N	CK410_SRC1_N - @m60_lib.M60	33B4 34A6
CK410_SRC1_P	CK410_SRC1_P - @m60_lib.M60	33B4 34A6
CK410_SRC2_N	CK410_SRC2_N - @m60_lib.M60	33B4 34A6
CK410_SRC2_P	CK410_SRC2_P - @m60_lib.M60	33B4 34A6
CK410_SRC3_N	CK410_SRC3_N - @m60_lib.M60	33B4 34D3
CK410_SRC3_P	CK410_SRC3_P - @m60_lib.M60	33B4 34D3
CK410_SRC4_N	CK410_SRC4_N - @m60_lib.M60	33B4 34B6
CK410_SRC4_P	CK410_SRC4_P - @m60_lib.M60	33B4 34B6
CK410_SRC5_N	CK410_SRC5_N - @m60_lib.M60	33B4 34B6
CK410_SRC5_P	CK410_SRC5_P - @m60_lib.M60	33B4 34B6
CK410_SRC6_N	CK410_SRC6_N - @m60_lib.M60	33B4 34B6
CK410_SRC6_P	CK410_SRC6_P - @m60_lib.M60	33B4 34B6
CK410_SRC7_N	CK410_SRC7_N - @m60_lib.M60	33B4 34D3
CK410_SRC7_P	CK410_SRC7_P - @m60_lib.M60	33B4 34D3
CK410_SRC8_N	CK410_SRC8_N - @m60_lib.M60	33A4 34A6
CK410_SRC8_P	CK410_SRC8_P - @m60_lib.M60	33A4 34A6
CK410_SRC_CLKREQ1_L	CK410_SRC_CLKREQ1_L - @m60_lib.M60	33B4 34D8
CK410_SRC_CLKREQ3_L	CK410_SRC_CLKREQ3_L - @m60_lib.M60	33B4 34D8
CK410_SRC_CLKREQ6_L	CK410_SRC_CLKREQ6_L - @m60_lib.M60	33B4 53C6
CK410_SRC_CLKREQ8_L	CK410_SRC_CLKREQ8_L - @m60_lib.M60	33A4 34D8
CK410_USB48_FSA	CK410_USB48_FSA - @m60_lib.M60	33A4 34C6
CK410_XTAL_IN	CK410_XTAL_IN - @m60_lib.M60	33C6
CK410_XTAL_OUT	CK410_XTAL_OUT - @m60_lib.M60	33C6
CLK_NB_OE_L	CLK_NB_OE_L - @m60_lib.M60	14B6 33B4
CPU_A20M_L	CPU_A20M_L - @m60_lib.M60	5C8 7C7 21C4
CPU_BSEL<0>	CPU_BSEL<0> - @m60_lib.M60	7B4 34B8
CPU_BSEL<1>	CPU_BSEL<1> - @m60_lib.M60	7B4 34A8
CPU_BSEL<2>	CPU_BSEL<2> - @m60_lib.M60	7B4 34A8
CPU_COMP<0>	CPU_COMP<0> - @m60_lib.M60	7B2
CPU_COMP<1>	CPU_COMP<1> - @m60_lib.M60	7B2
CPU_COMP<2>	CPU_COMP<2> - @m60_lib.M60	7B2
CPU_COMP<3>	CPU_COMP<3> - @m60_lib.M60	7B2
CPU_DCIN_SENSE	CPU_DCIN_SENSE - @m60_lib.M60	76D7
CPU_DCIN_SENSE_R	CPU_DCIN_SENSE_R - @m60_lib.M60	76C7
CPU_DPRSTP_L	CPU_DPRSTP_L - @m60_lib.M60	7B3 21C4 75C6
CPU_DPSLP_L	CPU_DPSLP_L - @m60_lib.M60	7B3 21C4
CPU_FERR_L	CPU_FERR_L - @m60_lib.M60	7C7 21C2
CPU_GTLREF	CPU_GTLREF - @m60_lib.M60	5D4 7B4
CPU_HS_ZH607	CPU_HS_ZH607 - @m60_lib.M60	9D4
CPU_HS_ZH608	CPU_HS_ZH608 - @m60_lib.M60	9D3
CPU_HS_ZH609	CPU_HS_ZH609 - @m60_lib.M60	9D3
CPU_HS_ZH610	CPU_HS_ZH610 - @m60_lib.M60	9D2
CPU_IGNNE_L	CPU_IGNNE_L - @m60_lib.M60	5C8 7C7 21C4
CPU_INIT_L	CPU_INIT_L - @m60_lib.M60	5C8 7D6 21C4
CPU_INTR	CPU_INTR - @m60_lib.M60	5C8 7C7 21C4
CPU_NMI	CPU_NMI - @m60_lib.M60	5C8 7C7 21C4
CPU_PROCHOT_L	CPU_PROCHOT_L - @m60_lib.M60	7C6 59A8 59C7
CPU_PSI_L	CPU_PSI_L - @m60_lib.M60	7A3 75C6
CPU_PWRGD	CPU_PWRGD - @m60_lib.M60	7B3 21C4
CPU_RCIN_L	CPU_RCIN_L - @m60_lib.M60	21C4
CPU_SENSE_I_R	CPU_SENSE_I_R - @m60_lib.M60	76D7
CPU_SMI_L	CPU_SMI_L - @m60_lib.M60	5C8 7C7 21C4
CPU_STPCLK_L	CPU_STPCLK_L - @m60_lib.M60	5C8 7C7 21C4
CPU_TEST1	CPU_TEST1 - @m60_lib.M60	7B4
CPU_TEST2	CPU_TEST2 - @m60_lib.M60	7B4
CPU_THERMD_EXT_N	CPU_THERMD_EXT_N - @m60_lib.M60	10B6
CPU_THERMD_EXT_P	CPU_THERMD_EXT_P - @m60_lib.M60	10B6
CPU_THERMD_N	CPU_THERMD_N - @m60_lib.M60	7C6 10C6
CPU_THERMD_P	CPU_THERMD_P - @m60_lib.M60	7C6 10C6
CPU_THERMTRIP_R	CPU_THERMTRIP_R - @m60_lib.M60	21C2
CPU_VCCSENSE_N	CPU_VCCSENSE_N - @m60_lib.M60	8B6 75A4
CPU_VCCSENSE_P	CPU_VCCSENSE_P - @m60_lib.M60	8B6 75A4
CPU_VID<0>	CPU_VID<0> - @m60_lib.M60	8B7 75C7
CPU_VID<1>	CPU_VID<1> - @m60_lib.M60	8B7 75C7
CPU_VID<2>	CPU_VID<2> - @m60_lib.M60	8B7 75C7
CPU_VID<3>	CPU_VID<3> - @m60_lib.M60	8B7 75C7
CPU_VID<4>	CPU_VID<4> - @m60_lib.M60	8B7 75C7
CPU_VID<5>	CPU_VID<5> - @m60_lib.M60	8B7 75C7
CPU_VID<6>	CPU_VID<6> - @m60_lib.M60	8B7 75D7
CPU_XDP_CLK_N	CPU_XDP_CLK_N - @m60_lib.M60	11B3 34B3
	FSB_CLK_XDP_N - @m60_lib.M60	34B4 34C2
CPU_XDP_CLK_P	CPU_XDP_CLK_P - @m60_lib.M60	11B3 34B3
	FSB_CLK_XDP_P - @m60_lib.M60	34B4 34C2
CRB_SV_DET	CRB_SV_DET - @m60_lib.M60	23B6 23C3
CRT_BLUE	CRT_BLUE - @m60_lib.M60	13B5 19D4
	=PPVCORE_S0_NB - @m60_lib.M60	6D4 16C8 16D3 19B6 19D5 19D7
	CRT_BLUE_L - @m60_lib.M60	13B5 19D4
	CRT_IREF - @m60_lib.M60	13B5 19D4
	CRT_GREEN_L - @m60_lib.M60	13B5 19D4
	CRT_GREEN - @m60_lib.M60	13B5 19D4
	PP2V5_S0_NB_VCCA_CRTDAC - @m60_lib.M60	17D6 19D4
	CRT_RED - @m60_lib.M60	13B5 19D4
	CRT_RED_L - @m60_lib.M60	13B5 19D4
	PP1V05_S0 - @m60_lib.M60	6D6 34A8 34B8 34C7 81C1
	=PP1V05_S0_CPU - @m60_lib.M60	5D4 6D4 7B5 7B7 7D5 7D5 8C7 9C8 9C8 11B3 11C5
	=PPVCORE_S0_SB - @m60_lib.M60	6D4 24D3 25D3
	=PP1V05_S0_SB_CPU_IO - @m60_lib.M60	6D4 21C1 21C1 24C3 25C3
	=PP1V05_S0_NB_VTT - @m60_lib.M60	6D4 17D3 19B8 19D7
	=PP1V05_S0_FSB_NB - @m60_lib.M60	5D4 6D4 12A7 12B7 12C2 19D7
	PP2V5_S0_NB_VCCA_CRTDAC - @m60_lib.M60	17D6 19D4
	PP1V05_S0 - @m60_lib.M60	6D6 34A8 34B8 34C7 81C1
	CRT_RED_L - @m60_lib.M60	13B5 19D4
	CRT_RED - @m60_lib.M60	13B5 19D4
	CRT_IREF - @m60_lib.M60	13B5 19D4
	CRT_GREEN_L - @m60_lib.M60	13B5 19D4
	CRT_GREEN - @m60_lib.M60	13B5 19D4
	CRT_BLUE_L - @m60_lib.M60	13B5 19D4
	=PPVCORE_S0_SB - @m60_lib.M60	6D4 24D3 25D3
	=PPVCORE_S0_NB - @m60_lib.M60	6D4 16C8 16D3 19B6 19D5 19D7
	=PP1V05_S0_SB_CPU_IO - @m60_lib.M60	6D4 21C1 21C1 24C3 25C3
	=PP1V05_S0_NB_VTT - @m60_lib.M60	6D4 17D3 19B8 19D7
	=PP1V05_S0_NB - @m60_lib.M60	6D4 19D7
	=PP1V05_S0_FSB_NB - @m60_lib.M60	5D4 6D4 12A7 12B7 12C2 19D7
	=PP1V05_S0_CPU - @m60_lib.M60	5D4 6D4 7B5 7B7 7D5 7D5 8C7 9C8 9C8 11B3 11C5
CRT_DDC_CLK	CRT_DDC_CLK - @m60_lib.M60	13B5 19C4
	TP_CRT_DDC_CLK - @m60_lib.M60	19C5
CRT_DDC_DATA	CRT_DDC_DATA - @m60_lib.M60	13B5 19C4
	TP_CRT_DDC_DATA - @m60_lib.M60	19C5
DEBUG_RST_L	DEBUG_RST_L - @m60_lib.M60	6A7 60C4
DMI_IRCOMP_R	DMI_IRCOMP_R - @m60_lib.M60	22C2
DMI_N2S_N<0>	DMI_N2S_N<0> - @m60_lib.M60	5B8 14B4 22D2
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DVI_DDC_CLK_UF	DVI_DDC_CLK_UF - @m60_lib.M60	97D3 97D5
DVI_DDC_DATA	DVI_DDC_DATA - @m60_lib.M60	97C2
DVI_DDC_DATA_UF	DVI_DDC_DATA_UF - @m60_lib.M60	97C3 97D5
DVI_HPD_UF	DVI_HPD_UF - @m60_lib.M60	97C3 97D5
ENET_C4106_2	ENET_C4106_2 - @m60_lib.M60	41D2
ENET_C4107_2	ENET_C4107_2 - @m60_lib.M60	41D2
ENET_C4117_1	ENET_C4117_1 - @m60_lib.M60	41B2
ENET_C4118_1	ENET_C4118_1 - @m60_lib.M60	41B2
ENET_CLK100M_PCIE_N	ENET_CLK100M_PCIE_N - @m60_lib.M60	5D5 34A4 34B2 41C5
ENET_CLK100M_PCIE_P	ENET_CLK100M_PCIE_P - @m60_lib.M60	5D5 34A4 34B2 41C5
ENET_CTRL12	ENET_CTRL12 - @m60_lib.M60	41C7 42B8
	TP_ENET_CTRL12 - @m60_lib.M60	42B7
ENET_CTRL25	ENET_CTRL25 - @m60_lib.M60	41C7 42C6
ENET_GATED_RST_L	ENET_GATED_RST_L - @m60_lib.M60	41C5 42D2
	ENET_RST_L - @m60_lib.M60	6B7 42D3
ENET_LED_ACT_L	ENET_LED_ACT_L - @m60_lib.M60	41C8
ENET_LED_LINK10_100_L	ENET_LED_LINK10_100_L - @m60_lib.M60	41C8
ENET_LED_LINK1000_L	ENET_LED_LINK1000_L - @m60_lib.M60	41C8
ENET_LED_LINK_L	ENET_LED_LINK_L - @m60_lib.M60	41C8
ENET_LOM_DIS_L	ENET_LOM_DIS_L - @m60_lib.M60	41C7
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ENET_PU_VDDO_TTL1	ENET_PU_VDDO_TTL1 - @m60_lib.M60	41C5
ENET_RSET	ENET_RSET - @m60_lib.M60	41C7
ENET_VPD_CLK	ENET_VPD_CLK - @m60_lib.M60	41A2 41C4
ENET_VPD_DATA	ENET_VPD_DATA - @m60_lib.M60	41A2 41C4
ENET_XTALI	ENET_XTALI - @m60_lib.M60	41B5
ENET_XTALO	ENET_XTALO - @m60_lib.M60	41B5
F0_GATESLOWDN	F0_GATESLOWDN - @m60_lib.M60	65D5
F0_RCFEEDBK	F0_RCFEEDBK - @m60_lib.M60	65C5
F0_VOLTAGE8R5	F0_VOLTAGE8R5 - @m60_lib.M60	65D6
F1_GATESLOWDN	F1_GATESLOWDN - @m60_lib.M60	65B5
F1_RCFEEDBK	F1_RCFEEDBK - @m60_lib.M60	65B5
F1_VOLTAGE8R5	F1_VOLTAGE8R5 - @m60_lib.M60	65B6
F2_GATESLOWDN	F2_GATESLOWDN - @m60_lib.M60	66D4
F2_RCFEEDBK	F2_RCFEEDBK - @m60_lib.M60	66C5
F2_VOLTAGE8R5	F2_VOLTAGE8R5 - @m60_lib.M60	66D5
FAN_0_OUT	FAN_0_OUT - @m60_lib.M60	65C4
FAN_0_PWR	FAN_0_PWR - @m60_lib.M60	65C4
FAN_1_OUT	FAN_1_OUT - @m60_lib.M60	65B4
FAN_1_PWR	FAN_1_PWR - @m60_lib.M60	65B3
FAN_2_OUT	FAN_2_OUT - @m60_lib.M60	66C4
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FSB_D_L<39>	FSB_D_L<39> - @m60_lib.M60	7C2 12B6
FSB_D_L<40>	FSB_D_L<40> - @m60_lib.M60	7C2 12B6
FSB_D_L<41>	FSB_D_L<41> - @m60_lib.M60	5D7 5D8 7C2 12B6
FSB_D_L<42>	FSB_D_L<42> - @m60_lib.M60	7C2 12B6
FSB_D_L<43>	FSB_D_L<43> - @m60_lib.M60	7C2 12B6
FSB_D_L<44>	FSB_D_L<44> - @m60_lib.M60	7C2 12B6
FSB_D_L<45>	FSB_D_L<45> - @m60_lib.M60	7C2 12B6
FSB_D_L<46>	FSB_D_L<46> - @m60_lib.M60	7C2 12B6
FSB_D_L<47>	FSB_D_L<47> - @m60_lib.M60	7C2 12B6
FSB_D_L<48>	FSB_D_L<48> - @m60_lib.M60	7C2 12B6
FSB_D_L<49>	FSB_D_L<49> - @m60_lib.M60	7C2 12B6
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FSB_D_L<54>	FSB_D_L<54> - @m60_lib.M60	7B2 12B6
FSB_D_L<55>	FSB_D_L<55> - @m60_lib.M60	7B2 12B6
FSB_D_L<56>	FSB_D_L<56> - @m60_lib.M60	7B2 12B6
FSB_D_L<57>	FSB_D_L<57> - @m60_lib.M60	7B2 12B6
FSB_D_L<58>	FSB_D_L<58> - @m60_lib.M60	7B2 12B6
FSB_D_L<59>	FSB_D_L<59> - @m60_lib.M60	5D7 5D8 7B2 12B6
FSB_D_L<60>	FSB_D_L<60> - @m60_lib.M60	7B2 12B6
FSB_D_L<61>	FSB_D_L<61> - @m60_lib.M60	7B2 12B6
FSB_D_L<62>	FSB_D_L<62> - @m60_lib.M60	7B2 12B6
FSB_D_L<63>	FSB_D_L<63> - @m60_lib.M60	7B2 12B6
FSB_HITM_L	FSB_HITM_L - @m60_lib.M60	5C7 7D6 12B4
FSB_HIT_L	FSB_HIT_L - @m60_lib.M60	5C7 7D6 12B4
FSB_IERR_L	FSB_IERR_L - @m60_lib.M60	7D6
FSB_LOCK_L	FSB_LOCK_L - @m60_lib.M60	5D7 5D8 7D6 12B4
FSB_REQ_L<0>	FSB_REQ_L<0> - @m60_lib.M60	5C7 7D7 12B4
FSB_REQ_L<1>	FSB_REQ_L<1> - @m60_lib.M60	5C7 7D7 12B4
FSB_REQ_L<2>	FSB_REQ_L<2> - @m60_lib.M60	5C7 7D7 12A4
FSB_REQ_L<3>	FSB_REQ_L<3> - @m60_lib.M60	5C7 7D7 12A4
FSB_REQ_L<4>	FSB_REQ_L<4> - @m60_lib.M60	5C7 7D7 12A4
FSB_RS_L<0>	FSB_RS_L<0> - @m60_lib.M60	7D6 12A4
FSB_RS_L<1>	FSB_RS_L<1> - @m60_lib.M60	7D6 12A4
FSB_RS_L<2>	FSB_RS_L<2> - @m60_lib.M60	7D6 12A4
FSB_SLPCPU_L	FSB_SLPCPU_L - @m60_lib.M60	7A3 12A4
FSB_TRDY_L	FSB_TRDY_L - @m60_lib.M60	7D6 12A4
FWH_INIT_L	FWH_INIT_L - @m60_lib.M60	21C4 59C5 60C1
	SMC_CPU_INIT_3_3_L - @m60_lib.M60	58D5 59C6
FWH_MFG_MODE	FWH_MFG_MODE - @m60_lib.M60	23A6 23C5
FW_A_TPA_N	FW_A_TPA_N - @m60_lib.M60	44C3 46C8
	FW_PORT0_TPA_N - @m60_lib.M60	46C5 46C6
FW_A_TPA_P	FW_A_TPA_P - @m60_lib.M60	44C3 46C8
	FW_PORT0_TPA_P - @m60_lib.M60	46C5 46C6
FW_A_TPBIAS	FW_A_TPBIAS - @m60_lib.M60	44C4 46C8
FW_A_TPB_N	FW_A_TPB_N - @m60_lib.M60	44C3 46C8
	FW_PORT0_TPB_N - @m60_lib.M60	46C5 46C6
FW_A_TPB_P	FW_A_TPB_P - @m60_lib.M60	44C3 46C8
	FW_PORT0_TPB_P - @m60_lib.M60	46C5 46C6
FW_B_TPA_N	FW_B_TPA_N - @m60_lib.M60	44C3 46C8
	FW_PORT1_TPA_N - @m60_lib.M60	46B5 46C6
FW_B_TPA_P	FW_B_TPA_P - @m60_lib.M60	44C3 46C8
	FW_PORT1_TPA_P - @m60_lib.M60	46B5 46C6
FW_B_TPBIAS	FW_B_TPBIAS - @m60_lib.M60	44C4 46C8
FW_B_TPB_N	FW_B_TPB_N - @m60_lib.M60	44C3 46C8
	FW_PORT1_TPB_N - @m60_lib.M60	46B5 46C6
FW_B_TPB_P	FW_B_TPB_P - @m60_lib.M60	44C3 46C8
	FW_PORT1_TPB_P - @m60_lib.M60	46B5 46C6
FW_CARDBUS_L	FW_CARDBUS_L - @m60_lib.M60	44B5
FW_CONTENDER	FW_CONTENDER - @m60_lib.M60	44B3
FW_CPS	FW_CPS - @m60_lib.M60	44C3
FW_C_TPA_N	FW_C_TPA_N - @m60_lib.M60	44C3 46B8
	TP_FW_C_TPA_N - @m60_lib.M60	46B7
FW_C_TPA_P	FW_C_TPA_P - @m60_lib.M60	44C3 46B8
	TP_FW_C_TPA_P - @m60_lib.M60	46B7
FW_C_TPBIAS	FW_C_TPBIAS - @m60_lib.M60	44C4 46B8
	TP_FW_C_TPBIAS - @m60_lib.M60	46B7
FW_C_TPB_N	FW_C_TPB_N - @m60_lib.M60	44C3 46A8
	TP_FW_C_TPB_N - @m60_lib.M60	46A7
FW_C_TPB_P	FW_C_TPB_P - @m60_lib.M60	44C3 46A8
	TP_FW_C_TPB_P - @m60_lib.M60	46A7
FW_PC0	FW_PC0 - @m60_lib.M60	44B3
FW_PC1	FW_PC1 - @m60_lib.M60	44B3
FW_PC2	FW_PC2 - @m60_lib.M60	44B3
FW_PORT0_TPA_FL_N	FW_PORT0_TPA_FL_N - @m60_lib.M60	46C2
FW_PORT0_TPA_FL_P	FW_PORT0_TPA_FL_P - @m60_lib.M60	46C2
FW_PORT0_TPB_FL_N	FW_PORT0_TPB_FL_N - @m60_lib.M60	46C2
FW_PORT0_TPB_FL_P	FW_PORT0_TPB_FL_P - @m60_lib.M60	46C2
FW_PORT1_TPA_FL_N	FW_PORT1_TPA_FL_N - @m60_lib.M60	46B2
FW_PORT1_TPA_FL_P	FW_PORT1_TPA_FL_P - @m60_lib.M60	46B2
FW_PORT1_TPB_FL_N	FW_PORT1_TPB_FL_N - @m60_lib.M60	46B2
FW_PORT1_TPB_FL_P	FW_PORT1_TPB_FL_P - @m60_lib.M60	46B2
FW_R0	FW_R0 - @m60_lib.M60	44C4
FW_R1	FW_R1 - @m60_lib.M60	44C4
FW_RESET_L	FW_RESET_L - @m60_lib.M60	44C2 44C3
FW_ROM_CLK	FW_ROM_CLK - @m60_lib.M60	44B4
FW_SE	FW_SE - @m60_lib.M60	44B3
FW_SM	FW_SM - @m60_lib.M60	44B3
FW_TEST	FW_TEST - @m60_lib.M60	44B3
FW_TPA_C<0>	FW_TPA_C<0> - @m60_lib.M60	46B8
FW_TPA_C<1>	FW_TPA_C<1> - @m60_lib.M60	46B7
FW_VP	FW_VP - @m60_lib.M60	46D4
FW_XTAL_X0	FW_XTAL_X0 - @m60_lib.M60	44D2 44D3
FW_XTAL_XI	FW_XTAL_XI - @m60_lib.M60	44D2 44D3
FW_XTAL_XR	FW_XTAL_XR - @m60_lib.M60	44D2
GATE_3V3_S3	GATE_3V3_S3 - @m60_lib.M60	83C2
GATE_5V_S3	GATE_5V_S3 - @m60_lib.M60	83D2
GATE_12V_S0	GATE_12V_S0 - @m60_lib.M60	83A6
GND_AUDIO_CODEC	GND_AUDIO_CODEC - @m60_lib.M60	68B7 68D2 72B8 72C8 73A8 73D4 74A2 74A3 74A5 74A7 74B5 74B7 74C1 74C3 74C5 74C6 74C6 74D1
GND_AUDIO_CODEC_EMI1	GND_AUDIO_CODEC_EMI1 - @m60_lib.M60	73A7
GND_AUDIO_MIC_CONN	GND_AUDIO_MIC_CONN - @m60_lib.M60	47C2 73C2
GND_AUDIO_SPKRAMP	GND_AUDIO_SPKRAMP - @m60_lib.M60	6C2 72B1 74D3
GND_AUDIO_SPKRAMP_PLANE	GND_AUDIO_SPKRAMP_PLANE - @m60_lib.M60	72A6 72B2 72B5 72D2 72D8 74C3
GND_BNDI	GND_BNDI - @m60_lib.M60	47B2 47D2
GND_CHASSIS_AUDIO_EXTERNAL	GND_CHASSIS_AUDIO_EXTERNAL - @m60_lib.M60	6B2 73C7
	GND_CHASSIS_IO_LEFT - @m60_lib.M60	6B2
	GND_CHASSIS_USB - @m60_lib.M60	6B2 47A4 47B4 47C4
	GND_CHASSIS_IO_LEFT - @m60_lib.M60	6B2
GND_CHASSIS_AUDIO_EXTERNAL_J	GND_CHASSIS_AUDIO_EXTERNAL_J - @m60_lib.M60	73A8 73C5 73C8 74C1 74C3
GND_CHASSIS_AUDIO_INTERNAL	GND_CHASSIS_AUDIO_INTERNAL - @m60_lib.M60	6A2 73C4
	GND_CHASSIS_BNDI - @m60_lib.M60	6A2 47C2 47C2 47D2
GND_CHASSIS_FIREWIRE	GND_CHASSIS_FIREWIRE - @m60_lib.M60	6B2 46A1 46C1
	GND_CHASSIS_RJ45 - @m60_lib.M60	6B2 43C6
	GND_CHASSIS_VGA - @m60_lib.M60	6B2 97C4
	GND_CHASSIS_RJ45 - @m60_lib.M60	6B2 43C6
	GND_CHASSIS_IO_RIGHT - @m60_lib.M60	6B1
GND_CHASSIS_SLOT	GND_CHASSIS_SLOT - @m60_lib.M60	6D6 97C5
GND_GPUVCORE_SGND	GND_GPUVCORE_SGND - @m60_lib.M60	85C7
GND_GPU_PCIE_PVSS	GND_GPU_PCIE_PVSS - @m60_lib.M60	84B8
GND_IMVP6_SGND	GND_IMVP6_SGND - @m60_lib.M60	75A4 75B6 75B8 75D7
GND_NB_VSSA_LVDS	GND_NB_VSSA_LVDS - @m60_lib.M60	17C6 19C2
	TP_GND_NB_VSSA_LVDS - @m60_lib.M60	19C1
GND_NEXT_TO_SMC	GND_NEXT_TO_SMC - @m60_lib.M60	59B2
GND_SMC_AVSS	GND_SMC_AVSS - @m60_lib.M60	58B2 58C4 59A3 59B3 76B2 76B6 76C5 85C1
GPUISENS_NEG	GPUISENS_NEG - @m60_lib.M60	85D3
GPUISENS_NTC	GPUISENS_NTC - @m60_lib.M60	85D3
GPUISENS_POS	GPUISENS_POS - @m60_lib.M60	85D3
GPUISENS_RC	GPUISENS_RC - @m60_lib.M60	85D3
GPUVCORE_BOOT	GPUVCORE_BOOT - @m60_lib.M60	85C5
GPUVCORE_COMP	GPUVCORE_COMP - @m60_lib.M60	85C7
GPUVCORE_COMP_R	GPUVCORE_COMP_R - @m60_lib.M60	85C7
GPUVCORE_EN	GPUVCORE_EN - @m60_lib.M60	85C8 88A8
GPUVCORE_FB	GPUVCORE_FB - @m60_lib.M60	85C7
GPUVCORE_FCCM	GPUVCORE_FCCM - @m60_lib.M60	85C7
GPUVCORE_FSET	GPUVCORE_FSET - @m60_lib.M60	85C7
GPUVCORE_IOUT	GPUVCORE_IOUT - @m60_lib.M60	59C5 85D1
	SMC_GPU_ISENSE - @m60_lib.M60	58D5 59C6
GPUVCORE_ISEN	GPUVCORE_ISEN - @m60_lib.M60	85C5
GPUVCORE_LG	GPUVCORE_LG - @m60_lib.M60	85C5
GPUVCORE_PGOOD	GPUVCORE_PGOOD - @m60_lib.M60	77A3 85C8
GPUVCORE_PHASE	GPUVCORE_PHASE - @m60_lib.M60	85C5
GPUVCORE_UG	GPUVCORE_UG - @m60_lib.M60	85C5
GPU_B2	GPU_B2 - @m60_lib.M60	93B3 97B8
GPU_CLK27M	GPU_CLK27M - @m60_lib.M60	92C6
	GPU_XTALIN - @m60_lib.M60	91A5 92C5
GPU_CLK100M_PCIE_N	GPU_CLK100M_PCIE_N - @m60_lib.M60	5C6 34A4 34B2 84A5
GPU_CLK100M_PCIE_P	GPU_CLK100M_PCIE_P - @m60_lib.M60	5C6 34A4 34B2 84A5
GPU_DDC_A_CLK	GPU_DDC_A_CLK - @m60_lib.M60	93A3 97D1
GPU_DDC_A_DATA	GPU_DDC_A_DATA - @m60_lib.M60	93A3 97C1
GPU_DDC_B_CLK	GPU_DDC_B_CLK - @m60_lib.M60	88B1 93A3
	TP_GPU_DDC_B_CLK - @m60_lib.M60	88B3
GPU_DDC_B_DATA	GPU_DDC_B_DATA - @m60_lib.M60	88B1 93A3
	TP_GPU_DDC_B_DATA - @m60_lib.M60	88B3
GPU_DDC_C_CLK	GPU_DDC_C_CLK - @m60_lib.M60	93A1 93A3 94A7 94C7
GPU_DDC_C_DATA	GPU_DDC_C_DATA - @m60_lib.M60	93A1 93A3 94A6 94C7
GPU_DIGON	GPU_DIGON - @m60_lib.M60	6A7 91C3 94C8
GPU_G2	GPU_G2 - @m60_lib.M60	93B3 97A8
GPU_GENERICA	GPU_GENERICA - @m60_lib.M60	91C3 95B4
	TP_GPU_GENERICA - @m60_lib.M60	95B6
GPU_GENERICB	GPU_GENERICB - @m60_lib.M60	91C3 95B4
	TP_GPU_GENERICB - @m60_lib.M60	95B6
GPU_GENERICC	GPU_GENERICC - @m60_lib.M60	91C3 95B4
	TP_GPU_GENERICC - @m60_lib.M60	95B6
GPU_GENERICD	GPU_GENERICD - @m60_lib.M60	91C3
GPU_GPIO_0	GPU_GPIO_0 - @m60_lib.M60	88D5 91D3 94C3
GPU_GPIO_1	GPU_GPIO_1 - @m60_lib.M60	88D5 91D3
GPU_GPIO_2	GPU_GPIO_2 - @m60_lib.M60	88D5 91D3
GPU_GPIO_3	GPU_GPIO_3 - @m60_lib.M60	88D5 91D3
GPU_GPIO_4	GPU_GPIO_4 - @m60_lib.M60	88C5 91D3
GPU_GPIO_5	GPU_GPIO_5 - @m60_lib.M60	88C5 91D3
GPU_GPIO_6	GPU_GPIO_6 - @m60_lib.M60	88C5 91D3
GPU_GPIO_7	GPU_GPIO_7 - @m60_lib.M60	88C3 91D3
	TP_GPU_GPIO_7 - @m60_lib.M60	88C5
GPU_GPIO_8	GPU_GPIO_8 - @m60_lib.M60	88C5 91D3
GPU_GPIO_9	GPU_GPIO_9 - @m60_lib.M60	88C5 91C3
GPU_GPIO_10	GPU_GPIO_10 - @m60_lib.M60	88C3 91C3
	NC_GPU_GPIO_10 - @m60_lib.M60	88C5
GPU_GPIO_11	GPU_GPIO_11 - @m60_lib.M60	88B5 91C3
GPU_GPIO_12	GPU_GPIO_12 - @m60_lib.M60	88C5 91C3
GPU_GPIO_13	GPU_GPIO_13 - @m60_lib.M60	88C5 91C3
GPU_GPIO_14	GPU_GPIO_14 - @m60_lib.M60	88C1 91C3
	TP_GPU_GPIO_14 - @m60_lib.M60	88C3
GPU_GPIO_15	GPU_GPIO_15 - @m60_lib.M60	88B4 91C3
	GPU_VCORE_LOW - @m60_lib.M60	88B5
GPU_GPIO_17	GPU_GPIO_17 - @m60_lib.M60	88C1 91C3
	TP_GPU_GPIO_17 - @m60_lib.M60	88C3
GPU_GPIO_18	GPU_GPIO_18 - @m60_lib.M60	91D5 95B4
GPU_GPIO_19	GPU_GPIO_19 - @m60_lib.M60	91D5 95B4
GPU_GPIO_20	GPU_GPIO_20 - @m60_lib.M60	91D5 95B4
GPU_GPIO_21	GPU_GPIO_21 - @m60_lib.M60	91D5 95B4
GPU_GPIO_22	GPU_GPIO_22 - @m60_lib.M60	91D5 95B4
GPU_GPIO_23	GPU_GPIO_23 - @m60_lib.M60	91D5 95B4
GPU_GPIO_24	GPU_GPIO_24 - @m60_lib.M60	88B5 91D5
GPU_GPIO_25	GPU_GPIO_25 - @m60_lib.M60	91D5 95C4
GPU_GPIO_26	GPU_GPIO_26 - @m60_lib.M60	91D5 95C4
GPU_GPIO_27	GPU_GPIO_27 - @m60_lib.M60	88B5 91D5
GPU_GPIO_28	GPU_GPIO_28 - @m60_lib.M60	88B5 91D5
GPU_GPIO_29	GPU_GPIO_29 - @m60_lib.M60	88B5 91C5
GPU_GPIO_30	GPU_GPIO_30 - @m60_lib.M60	91C5 95C4
GPU_GPIO_31	GPU_GPIO_31 - @m60_lib.M60	91C5 95C4
GPU_GPIO_32	GPU_GPIO_32 - @m60_lib.M60	91C5 95C4
GPU_GPIO_33	GPU_GPIO_33 - @m60_lib.M60	91C5 95C4
GPU_GPIO_34	GPU_GPIO_34 - @m60_lib.M60	91C5 95C4
GPU_H2SYNC	GPU_H2SYNC - @m60_lib.M60	93B3 97A4
GPU_HPD	GPU_HPD - @m60_lib.M60	93A5 97C1
GPU_HSYNC_BUF	GPU_HSYNC_BUF - @m60_lib.M60	97A4
GPU_MEMTEST	GPU_MEMTEST - @m60_lib.M60	87A3
GPU_MVREFD0	GPU_MVREFD0 - @m60_lib.M60	87B7
GPU_MVREFD1	GPU_MVREFD1 - @m60_lib.M60	87B3
GPU_MVREFS0	GPU_MVREFS0 - @m60_lib.M60	87B7
GPU_MVREFS1	GPU_MVREFS1 - @m60_lib.M60	87B3
GPU_PCIE_CALI	GPU_PCIE_CALI - @m60_lib.M60	84A3
GPU_PCIE_CALRN	GPU_PCIE_CALRN - @m60_lib.M60	84A3
GPU_PCIE_CALRP	GPU_PCIE_CALRP - @m60_lib.M60	84A3
GPU_PWM_RST_L	GPU_PWM_RST_L - @m60_lib.M60	6C7 94B3
GPU_R2	GPU_R2 - @m60_lib.M60	93B3 97A8
GPU_TEST_MCLK	GPU_TEST_MCLK - @m60_lib.M60	87A3
GPU_TEST_YCLK	GPU_TEST_YCLK - @m60_lib.M60	87A3
GPU_TV_C	GPU_TV_C - @m60_lib.M60	88B1 93B3
	TP_GPU_TV_C - @m60_lib.M60	88B3
GPU_TV_COMP	GPU_TV_COMP - @m60_lib.M60	88B1 93B3
	TP_GPU_TV_COMP - @m60_lib.M60	88B3
GPU_TV_Y	GPU_TV_Y - @m60_lib.M60	88B1 93B3
	TP_GPU_TV_Y - @m60_lib.M60	88B3
GPU_V2SYNC	GPU_V2SYNC - @m60_lib.M60	93B3 97A4
GPU_VARY_BL	GPU_VARY_BL - @m60_lib.M60	91C3 94B3
GPU_VGA_B	GPU_VGA_B - @m60_lib.M60	88C1 93C3
	TP_GPU_VGA_B - @m60_lib.M60	88C3
GPU_VGA_G	GPU_VGA_G - @m60_lib.M60	88C1 93C3
	TP_GPU_VGA_G - @m60_lib.M60	88C3
GPU_VGA_HSYNC	GPU_VGA_HSYNC - @m60_lib.M60	88B1 93B3
	TP_GPU_VGA_HSYNC - @m60_lib.M60	88B3
GPU_VGA_R	GPU_VGA_R - @m60_lib.M60	88C1 93C3
	TP_GPU_VGA_R - @m60_lib.M60	88C3
GPU_VGA_VSYNC	GPU_VGA_VSYNC - @m60_lib.M60	88B1 93B3
	TP_GPU_VGA_VSYNC - @m60_lib.M60	88B3
GPU_VSYNC_BUF	GPU_VSYNC_BUF - @m60_lib.M60	97A4
GPU_XTALOUT	GPU_XTALOUT - @m60_lib.M60	91A5
I2C_ALS_SCL	I2C_ALS_SCL - @m60_lib.M60	59C1 59C8
	SMB_A_S3_CLK - @m60_lib.M60	58B5 59C2 59D1
I2C_ALS_SDA	I2C_ALS_SDA - @m60_lib.M60	59C1 59C8
	SMB_A_S3_DATA - @m60_lib.M60	58B5 59C2 59D1
IDE_CSEL_PD	IDE_CSEL_PD - @m60_lib.M60	38C3
IDE_DASP_L	IDE_DASP_L - @m60_lib.M60	38C3
IDE_DASP_L_DS	IDE_DASP_L_DS - @m60_lib.M60	38B3
IDE_IOCS16_PU	IDE_IOCS16_PU - @m60_lib.M60	38C1
IDE_IRQ14	IDE_IRQ14 - @m60_lib.M60	21B6 38C4
IDE_PDA<0>	IDE_PDA<0> - @m60_lib.M60	21B5 38C3
IDE_PDA<1>	IDE_PDA<1> - @m60_lib.M60	21B5 38C3
IDE_PDA<2>	IDE_PDA<2> - @m60_lib.M60	21B5 38C1
IDE_PDCS1_L	IDE_PDCS1_L - @m60_lib.M60	21B5 38C3
IDE_PDCS3_L	IDE_PDCS3_L - @m60_lib.M60	21B5 38C1
IDE_PDD<0>	IDE_PDD<0> - @m60_lib.M60	21C5 38C3
IDE_PDD<1>	IDE_PDD<1> - @m60_lib.M60	21B5 38C3
IDE_PDD<2>	IDE_PDD<2> - @m60_lib.M60	21B5 38D3
IDE_PDD<3>	IDE_PDD<3> - @m60_lib.M60	21B5 38D3
IDE_PDD<4>	IDE_PDD<4> - @m60_lib.M60	21B5 38D3
IDE_PDD<5>	IDE_PDD<5> - @m60_lib.M60	21B5 38D3
IDE_PDD<6>	IDE_PDD<6> - @m60_lib.M60	21B5 38D3
IDE_PDD<7>	IDE_PDD<7> - @m60_lib.M60	21B5 38D3
IDE_PDD<8>	IDE_PDD<8> - @m60_lib.M60	21B5 38D1
IDE_PDD<9>	IDE_PDD<9> - @m60_lib.M60	5C8 21B5 38D1
IDE_PDD<10>	IDE_PDD<10> - @m60_lib.M60	21B5 38D1
IDE_PDD<11>	IDE_PDD<11> - @m60_lib.M60	21B5 38D1
IDE_PDD<12>	IDE_PDD<12> - @m60_lib.M60	21B5 38D1
IDE_PDD<13>	IDE_PDD<13> - @m60_lib.M60	21B5 38D1
IDE_PDD<14>	IDE_PDD<14> - @m60_lib.M60	21B5 38D1
IDE_PDD<15>	IDE_PDD<15> - @m60_lib.M60	21B5 38C1
IDE_PDDACK_L	IDE_PDDACK_L - @m60_lib.M60	21B6 38C1
IDE_PDDREQ	IDE_PDDREQ - @m60_lib.M60	21B6 38C4
IDE_PDIORDY	IDE_PDIORDY - @m60_lib.M60	5C8 21B6 38C4
IDE_PDIOR_L	IDE_PDIOR_L - @m60_lib.M60	5C8 21B6 38C1
IDE_PDIOW_L	IDE_PDIOW_L - @m60_lib.M60	21B6 38C3
IDE_RESET_L	IDE_RESET_L - @m60_lib.M60	23C3 38D3 38D5
IMVP6_BOOT1	IMVP6_BOOT1 - @m60_lib.M60	75A8 75C5
IMVP6_BOOT2	IMVP6_BOOT2 - @m60_lib.M60	75A6 75C5
IMVP6_COMP	IMVP6_COMP - @m60_lib.M60	75A4 75B6
IMVP6_COMP_RC	IMVP6_COMP_RC - @m60_lib.M60	75B7
IMVP6_DFB	IMVP6_DFB - @m60_lib.M60	75A4 75B5
IMVP6_DROOP	IMVP6_DROOP - @m60_lib.M60	75A4 75B4
IMVP6_FB	IMVP6_FB - @m60_lib.M60	75A4 75B6
IMVP6_FB2	IMVP6_FB2 - @m60_lib.M60	75A4 75B6
IMVP6_FET_RC1	IMVP6_FET_RC1 - @m60_lib.M60	75A8 75C2
IMVP6_FET_RC2	IMVP6_FET_RC2 - @m60_lib.M60	75A6 75B2
IMVP6_ISEN1	IMVP6_ISEN1 - @m60_lib.M60	75A8 75C5
IMVP6_ISEN2	IMVP6_ISEN2 - @m60_lib.M60	75A6 75C5
IMVP6_LGATE1	IMVP6_LGATE1 - @m60_lib.M60	75A8 75C5
IMVP6_LGATE2	IMVP6_LGATE2 - @m60_lib.M60	75A6 75C5
IMVP6_NTC	IMVP6_NTC - @m60_lib.M60	75C7
IMVP6_NTC_R	IMVP6_NTC_R - @m60_lib.M60	75C7
IMVP6_OCSET	IMVP6_OCSET - @m60_lib.M60	75A4 75B5
IMVP6_PHASE1	IMVP6_PHASE1 - @m60_lib.M60	75A8 75C5
IMVP6_PHASE2	IMVP6_PHASE2 - @m60_lib.M60	75A6 75C5
IMVP6_RBIAS	IMVP6_RBIAS - @m60_lib.M60	75A4 75B6
IMVP6_RTN	IMVP6_RTN - @m60_lib.M60	75A4 75B5
IMVP6_SOFT	IMVP6_SOFT - @m60_lib.M60	75A4 75C6
IMVP6_UGATE1	IMVP6_UGATE1 - @m60_lib.M60	75A8 75C5
IMVP6_UGATE2	IMVP6_UGATE2 - @m60_lib.M60	75A6 75C5
IMVP6_VDIFF	IMVP6_VDIFF - @m60_lib.M60	75A4 75B6
IMVP6_VDIFF_RC	IMVP6_VDIFF_RC - @m60_lib.M60	75B7
IMVP6_VO	IMVP6_VO - @m60_lib.M60	75A4 75B4
IMVP6_VO_R	IMVP6_VO_R - @m60_lib.M60	75B4
IMVP6_VR_TT	IMVP6_VR_TT - @m60_lib.M60	75C7
IMVP6_VSEN	IMVP6_VSEN - @m60_lib.M60	75A4 75B5
IMVP6_VSUM	IMVP6_VSUM - @m60_lib.M60	75A4 75C5
IMVP6_VSUM_R1	IMVP6_VSUM_R1 - @m60_lib.M60	75A8 75C2
IMVP6_VSUM_R2	IMVP6_VSUM_R2 - @m60_lib.M60	75A6 75B2
IMVP6_VW	IMVP6_VW - @m60_lib.M60	75A4 75B6
IMVP_DPRSLPVR	IMVP_DPRSLPVR - @m60_lib.M60	75C6
IMVP_PGD_IN	IMVP_PGD_IN - @m60_lib.M60	75C6 77C7
IMVP_VID<0>	IMVP_VID<0> - @m60_lib.M60	75C6
IMVP_VID<1>	IMVP_VID<1> - @m60_lib.M60	75C7

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IMVP_VID<2>          IMVP_VID<2> - @m60_lib.M60            75C7
IMVP_VID<3>          IMVP_VID<3> - @m60_lib.M60            75C7
IMVP_VID<4>          IMVP_VID<4> - @m60_lib.M60            75C7
IMVP_VID<5>          IMVP_VID<5> - @m60_lib.M60            75C7
IMVP_VID<6>          IMVP_VID<6> - @m60_lib.M60            75C7
IMVP_VR_ON           IMVP_VR_ON - @m60_lib.M60             58D7 75C6
INT_PIRQA_L          INT_PIRQA_L - @m60_lib.M60            22A7 26D2
INT_PIRQB_L          INT_PIRQB_L - @m60_lib.M60            22A7 26D2
INT_PIRQC_L          INT_PIRQC_L - @m60_lib.M60            22A7 26D2
INT_PIRQD_L          INT_PIRQD_L - @m60_lib.M60            22A7 26D2 44B5
INT_SERIRQ           INT_SERIRQ - @m60_lib.M60             23C8 58C7 60C1 67C6
ISENSE_CAL_EN        ISENSE_CAL_EN - @m60_lib.M60          58B7 76A7
ITPRESET_L           ITPRESET_L - @m60_lib.M60             11B3
ITP_TDO              ITP_TDO - @m60_lib.M60                11B3
ITS_ALIVE            ITS_ALIVE - @m60_lib.M60              6A7
ITS_PLUGGED_IN       ITS_PLUGGED_IN - @m60_lib.M60         6A8
KBC_MDE              KBC_MDE - @m60_lib.M60                58C2
LCD_PWM              LCD_PWM - @m60_lib.M60                6D8 94B1
LCD_PWM_R            LCD_PWM_R - @m60_lib.M60              94B2
LCD_PWREN_L          LCD_PWREN_L - @m60_lib.M60            94C8
LCD_PWREN_L_RC       LCD_PWREN_L_RC - @m60_lib.M60         94C7
LCD_SHOULD_ON        LCD_SHOULD_ON - @m60_lib.M60          6A6
LED_PP1V05_S0_N      LED_PP1V05_S0_N - @m60_lib.M60        81A4
LED_PP1V05_S0_P      LED_PP1V05_S0_P - @m60_lib.M60        81A4
LED_PP1V5_S0_N       LED_PP1V5_S0_N - @m60_lib.M60         80A3
LED_PP1V5_S0_P       LED_PP1V5_S0_P - @m60_lib.M60         80A4
LED_PP1V8_S3_N       LED_PP1V8_S3_N - @m60_lib.M60         79A4
LED_PP1V8_S3_P       LED_PP1V8_S3_P - @m60_lib.M60         79A4
LPC_AD<0>            LPC_AD<0> - @m60_lib.M60              21D4 58D7 60C4 67C6
LPC_AD<1>            LPC_AD<1> - @m60_lib.M60              21D4 58D7 60C4 67C6
LPC_AD<2>            LPC_AD<2> - @m60_lib.M60              21D4 58C7 60C1 67C6
LPC_AD<3>            LPC_AD<3> - @m60_lib.M60              21D4 58C7 60C1 67C6
LPC_FRAME_L          LPC_FRAME_L - @m60_lib.M60            21C5 58C7 60C4 67C6
LVDS_A_CLK_N         LVDS_A_CLK_N - @m60_lib.M60           13D5 19D2
                     TP_LVDS_A_CLK_N - @m60_lib.M60        19D1
LVDS_A_CLK_P         LVDS_A_CLK_P - @m60_lib.M60           13C5 19D2
                     TP_LVDS_A_CLK_P - @m60_lib.M60        19D1
LVDS_A_DATA_N<0>     LVDS_A_DATA_N<0> - @m60_lib.M60       13C5 19D2
LVDS_A_DATA_N<1>     LVDS_A_DATA_N<1> - @m60_lib.M60       13C5 19D2
LVDS_A_DATA_N<2>     LVDS_A_DATA_N<2> - @m60_lib.M60       13C5 19D2
LVDS_A_DATA_P<0>     LVDS_A_DATA_P<0> - @m60_lib.M60       13C5 19D2
LVDS_A_DATA_P<1>     LVDS_A_DATA_P<1> - @m60_lib.M60       13C5 19D2
LVDS_A_DATA_P<2>     LVDS_A_DATA_P<2> - @m60_lib.M60       13C5 19D2
LVDS_BKLTCTL         LVDS_BKLTCTL - @m60_lib.M60           13D5 19C2
                     TP_LVDS_BKLTCTL - @m60_lib.M60        19C1
LVDS_BKLTEN          LVDS_BKLTEN - @m60_lib.M60            13D5 19C2
                     TP_LVDS_BKLTEN - @m60_lib.M60         19C1
LVDS_B_CLK_N         LVDS_B_CLK_N - @m60_lib.M60           13C5 19D2
                     TP_LVDS_B_CLK_N - @m60_lib.M60        19D1
LVDS_B_CLK_P         LVDS_B_CLK_P - @m60_lib.M60           13C5 19D2
                     TP_LVDS_B_CLK_P - @m60_lib.M60        19D1
LVDS_B_DATA_N<0>     LVDS_B_DATA_N<0> - @m60_lib.M60       13C5 19D2
LVDS_B_DATA_N<1>     LVDS_B_DATA_N<1> - @m60_lib.M60       13C5 19D2
LVDS_B_DATA_N<2>     LVDS_B_DATA_N<2> - @m60_lib.M60       13C5 19D2
LVDS_B_DATA_P<0>     LVDS_B_DATA_P<0> - @m60_lib.M60       13C5 19D2
LVDS_B_DATA_P<1>     LVDS_B_DATA_P<1> - @m60_lib.M60       13C5 19D2
LVDS_B_DATA_P<2>     LVDS_B_DATA_P<2> - @m60_lib.M60       13C5 19D2
LVDS_CLKCTLA         LVDS_CLKCTLA - @m60_lib.M60           13D5 19C2
                     TP_LVDS_CLKCTLA - @m60_lib.M60        19C1
LVDS_CLKCTLB         LVDS_CLKCTLB - @m60_lib.M60           13D5 19C2
                     TP_LVDS_CLKCTLB - @m60_lib.M60        19C1
LVDS_DDC_CLK         LVDS_DDC_CLK - @m60_lib.M60           13D5 19C2
                     TP_LVDS_DDC_CLK - @m60_lib.M60        19C1
LVDS_DDC_DATA        LVDS_DDC_DATA - @m60_lib.M60          13D5 19C2
                     TP_LVDS_DDC_DATA - @m60_lib.M60       19C1
LVDS_IBG             LVDS_IBG - @m60_lib.M60               13D5 19C2
                     TP_LVDS_IBG - @m60_lib.M60            19C1
LVDS_L_CLK_N         LVDS_L_CLK_N - @m60_lib.M60           93A3 93D2 94A6
LVDS_L_CLK_P         LVDS_L_CLK_P - @m60_lib.M60           93A3 93D2 94A7
LVDS_L_DATA_N<0>     LVDS_L_DATA_N<0> - @m60_lib.M60       93A3 93C2 94A6
LVDS_L_DATA_N<1>     LVDS_L_DATA_N<1> - @m60_lib.M60       93A3 93C2 94A7
LVDS_L_DATA_N<2>     LVDS_L_DATA_N<2> - @m60_lib.M60       93A3 93C2 94A6
LVDS_L_DATA_N<3>     LVDS_L_DATA_N<3> - @m60_lib.M60       93A3 94A6
LVDS_L_DATA_P<0>     LVDS_L_DATA_P<0> - @m60_lib.M60       93A3 93D2 94A7
LVDS_L_DATA_P<1>     LVDS_L_DATA_P<1> - @m60_lib.M60       93A3 93C2 94A6
LVDS_L_DATA_P<2>     LVDS_L_DATA_P<2> - @m60_lib.M60       93A3 93C2 94A7
LVDS_L_DATA_P<3>     LVDS_L_DATA_P<3> - @m60_lib.M60       93A3 94A7
LVDS_U_CLK_N         LVDS_U_CLK_N - @m60_lib.M60           93B3 94B6
LVDS_U_CLK_P         LVDS_U_CLK_P - @m60_lib.M60           93B3 94A7
LVDS_U_DATA_N<0>     LVDS_U_DATA_N<0> - @m60_lib.M60       93B3 94B7
LVDS_U_DATA_N<1>     LVDS_U_DATA_N<1> - @m60_lib.M60       93B3 94B7
LVDS_U_DATA_N<2>     LVDS_U_DATA_N<2> - @m60_lib.M60       93B3 94B7
LVDS_U_DATA_N<3>     LVDS_U_DATA_N<3> - @m60_lib.M60       93B3 94A6
LVDS_U_DATA_P<0>     LVDS_U_DATA_P<0> - @m60_lib.M60       93B3 94B6
LVDS_U_DATA_P<1>     LVDS_U_DATA_P<1> - @m60_lib.M60       93B3 94B6
LVDS_U_DATA_P<2>     LVDS_U_DATA_P<2> - @m60_lib.M60       93B3 94B6
LVDS_U_DATA_P<3>     LVDS_U_DATA_P<3> - @m60_lib.M60       93B3 94A7
LVDS_VDDEN           LVDS_VDDEN - @m60_lib.M60             13D5 19C2
                     TP_LVDS_VDDEN - @m60_lib.M60          19C1
LVDS_VREFH           LVDS_VREFH - @m60_lib.M60             13D5 19C2
                     TP_LVDS_VREFH - @m60_lib.M60          19C1
LVDS_VREFL           LVDS_VREFL - @m60_lib.M60             13D5 19C2
                     TP_LVDS_VREFL - @m60_lib.M60          19C1
MEMVTT_VREF          MEMVTT_VREF - @m60_lib.M60            31B4
MEM_A_A<0>           MEM_A_A<0> - @m60_lib.M60             15C5 28B3
MEM_A_A<13..0>       MEM_A_A<13..0> - @m60_lib.M60         30C6
MEM_A_A<1>           MEM_A_A<1> - @m60_lib.M60             15C5 28B6
MEM_A_A<2>           MEM_A_A<2> - @m60_lib.M60             15C5 28B3
MEM_A_A<3>           MEM_A_A<3> - @m60_lib.M60             15B5 28B6
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MEM_A_A<5>           MEM_A_A<5> - @m60_lib.M60             15B5 28B6
MEM_A_A<6>           MEM_A_A<6> - @m60_lib.M60             15B5 28C3
MEM_A_A<7>           MEM_A_A<7> - @m60_lib.M60             15B5 28C3
MEM_A_A<8>           MEM_A_A<8> - @m60_lib.M60             15B5 28C6
MEM_A_A<9>           MEM_A_A<9> - @m60_lib.M60             15B5 28C6
MEM_A_A<10>          MEM_A_A<10> - @m60_lib.M60            15B5 28B6
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MEM_A_A<12>          MEM_A_A<12> - @m60_lib.M60            15B5 28C6
MEM_A_A<13>          MEM_A_A<13> - @m60_lib.M60            15B5 28B3
MEM_A_BS<0>          MEM_A_BS<0> - @m60_lib.M60            15D5 28B6
MEM_A_BS<2..0>       MEM_A_BS<2..0> - @m60_lib.M60         30C6
MEM_A_BS<1>          MEM_A_BS<1> - @m60_lib.M60            15D5 28B3
MEM_A_BS<2>          MEM_A_BS<2> - @m60_lib.M60            15D5 28C6
MEM_A_CAS_L          MEM_A_CAS_L - @m60_lib.M60            15D5 28B6 30B6
MEM_A_DM<0>          MEM_A_DM<0> - @m60_lib.M60            15D5 28D3
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MEM_A_DM<2>          MEM_A_DM<2> - @m60_lib.M60            15D5 28C3
MEM_A_DM<3>          MEM_A_DM<3> - @m60_lib.M60            15C5 28C6
MEM_A_DM<4>          MEM_A_DM<4> - @m60_lib.M60            15C5 28B3
MEM_A_DM<5>          MEM_A_DM<5> - @m60_lib.M60            15C5 28A6
MEM_A_DM<6>          MEM_A_DM<6> - @m60_lib.M60            15C5 28A3
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MEM_A_DQ<33>         MEM_A_DQ<33> - @m60_lib.M60           15C7 28B6
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MEM_A_DQ<53>         MEM_A_DQ<53> - @m60_lib.M60           15B7 28A3
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MEM_B_DQS_P<7>       MEM_B_DQS_P<7> - @m60_lib.M60         5A7 15C2 29A3
MEM_B_RAS_L          MEM_B_RAS_L - @m60_lib.M60            15B2 29B3 30A6
MEM_B_SPD_SA1        MEM_B_SPD_SA1 - @m60_lib.M60          29A4
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MEM_VREF_NB_0        MEM_VREF_NB_0 - @m60_lib.M60          5B7 14C4 19B6
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NB_CLK100M_GCLKIN_P  NB_CLK100M_GCLKIN_P - @m60_lib.M60    5C7 14C4 34B4 34C2
NB_FSB_VREF          NB_FSB_VREF - @m60_lib.M60            5D4 12C4
NB_FSB_XRCOMP        NB_FSB_XRCOMP - @m60_lib.M60          12A6
NB_FSB_XSCOMP        NB_FSB_XSCOMP - @m60_lib.M60          12A6
NB_FSB_XSWING        NB_FSB_XSWING - @m60_lib.M60          12A6
NB_FSB_YRCOMP        NB_FSB_YRCOMP - @m60_lib.M60          12A6
NB_FSB_YSCOMP        NB_FSB_YSCOMP - @m60_lib.M60          12A6
NB_FSB_YSWING        NB_FSB_YSWING - @m60_lib.M60          12A6
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NB_TV_DCONSEL0       NB_TV_DCONSEL0 - @m60_lib.M60         14D6
NB_TV_DCONSEL1       NB_TV_DCONSEL1 - @m60_lib.M60         14C6
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NB_VCCSM_LF2         NB_VCCSM_LF2 - @m60_lib.M60           16B4
NB_VCCSM_LF4         NB_VCCSM_LF4 - @m60_lib.M60           16B8
NB_VCCSM_LF5         NB_VCCSM_LF5 - @m60_lib.M60           16B8
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NB_VTTLF_CAP2        NB_VTTLF_CAP2 - @m60_lib.M60          17A4
NB_VTTLF_CAP3        NB_VTTLF_CAP3 - @m60_lib.M60          17B4
NC_AUD1              NC_AUD1 - @m60_lib.M60                68C4
NC_AUD2              NC_AUD2 - @m60_lib.M60                68B4
NC_AUD_GPIO_2        NC_AUD_GPIO_2 - @m60_lib.M60          68C7
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NC_AUD_VREF_PORT_C   NC_AUD_VREF_PORT_C - @m60_lib.M60     68C1
NC_AUD_VREF_PORT_D   NC_AUD_VREF_PORT_D - @m60_lib.M60     68C1
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NC_FW_NU2            NC_FW_NU2 - @m60_lib.M60              44B3
NC_JE350_13          NC_JE350_13 - @m60_lib.M60            47B1
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                     SMC_P20 - @m60_lib.M60                58D7 59D6
NC_SMC_P21           NC_SMC_P21 - @m60_lib.M60             59D5
                     SMC_P21 - @m60_lib.M60                58D7 59D6
NC_SMC_P22           NC_SMC_P22 - @m60_lib.M60             59D5
                     SMC_P22 - @m60_lib.M60                58D7 59D6
NC_SMC_P23           NC_SMC_P23 - @m60_lib.M60             59D5
                     SMC_P23 - @m60_lib.M60                58D7 59D6
NC_SMC_P26           NC_SMC_P26 - @m60_lib.M60             59D5
                     SMC_P26 - @m60_lib.M60                58D7 59D6
NC_SMC_P27           NC_SMC_P27 - @m60_lib.M60             59D5
                     SMC_P27 - @m60_lib.M60                58D7 59D6
NC_VOL_DOWN          NC_VOL_DOWN - @m60_lib.M60            68C7
NC_VOL_UP            NC_VOL_UP - @m60_lib.M60              68C7
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                     SB_GPIO5 - @m60_lib.M60               26C2
P0V48_SMC_LSREF      P0V48_SMC_LSREF - @m60_lib.M60        59A8 59B7
PANEL_ID             PANEL_ID - @m60_lib.M60               6D6 94C2
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PCIE_A_D2R_C_N       PCIE_A_D2R_C_N - @m60_lib.M60         41D5
PCIE_A_D2R_C_P       PCIE_A_D2R_C_P - @m60_lib.M60         41D5
PCIE_A_D2R_N         PCIE_A_D2R_N - @m60_lib.M60           5B8 22D4 41D4
PCIE_A_D2R_P         PCIE_A_D2R_P - @m60_lib.M60           5C8 22D4 41D4
PCIE_A_R2D_C_N       PCIE_A_R2D_C_N - @m60_lib.M60         22D4 41C3
PCIE_A_R2D_C_P       PCIE_A_R2D_C_P - @m60_lib.M60         22D4 41C3
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PCIE_A_R2D_P         PCIE_A_R2D_P - @m60_lib.M60           41C5
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PCIE_B_D2R_P         PCIE_B_D2R_P - @m60_lib.M60           5B8 22D4 53C7
PCIE_B_R2D_C_N       PCIE_B_R2D_C_N - @m60_lib.M60         22D4 53B7
PCIE_B_R2D_C_P       PCIE_B_R2D_C_P - @m60_lib.M60         22D4 53B7
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PCIE_B_R2D_P         PCIE_B_R2D_P - @m60_lib.M60           53B6
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                     TP_PCIE_C_D2R_N - @m60_lib.M60        54D6
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                     TP_PCIE_C_D2R_P - @m60_lib.M60        54D6
PCIE_C_R2D_C_N       PCIE_C_R2D_C_N - @m60_lib.M60         22D4 54D8
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PCIE_C_R2D_C_P       PCIE_C_R2D_C_P - @m60_lib.M60         22D4 54D8
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PCI_CLK_PORT80       PCI_CLK_PORT80 - @m60_lib.M60         34B4 60C1
PCI_CLK_SB           PCI_CLK_SB - @m60_lib.M60             5C8 22A6 34B4
PCI_CLK_SMC          PCI_CLK_SMC - @m60_lib.M60            34C4 58C7
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PCI_FRAME_L          PCI_FRAME_L - @m60_lib.M60          22A7 26D2 44B5
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PCI_LOCK_L           PCI_LOCK_L - @m60_lib.M60           22A6 26D2
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PCI_REQ3_L           PCI_REQ3_L - @m60_lib.M60           22B6 26D2
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PEG_R2D_P<9>         PEG_R2D_P<9> - @m60_lib.M60         84C4
PEG_R2D_P<10>        PEG_R2D_P<10> - @m60_lib.M60        84B4
PEG_R2D_P<11>        PEG_R2D_P<11> - @m60_lib.M60        84B4
PEG_R2D_P<12>        PEG_R2D_P<12> - @m60_lib.M60        84B4
PEG_R2D_P<13>        PEG_R2D_P<13> - @m60_lib.M60        84B4
PEG_R2D_P<14>        PEG_R2D_P<14> - @m60_lib.M60        84B4
PEG_R2D_P<15>        PEG_R2D_P<15> - @m60_lib.M60        84B4
PEG_RESET_L          PEG_RESET_L - @m60_lib.M60          6B7 84A5
PLT_RST_L            PLT_RST_L - @m60_lib.M60            6C8 22A6
PM_BATLOW_L          PM_BATLOW_L - @m60_lib.M60          23C1 58B7
PM_BMBUSY_L          PM_BMBUSY_L - @m60_lib.M60          14B6 23C5
PM_CLKRUN_L          PM_CLKRUN_L - @m60_lib.M60          5B8 23C8 44B5 58C5 60C4
                                                         67C6
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                     DIMM_OVERTEMP_L - @m60_lib.M60      28C3 29C3 59C6
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PM_PWRBTN_L          PM_PWRBTN_L - @m60_lib.M60          23C3 58D7
PM_PWROK             PM_PWROK - @m60_lib.M60             77B7
PM_RI_L              PM_RI_L - @m60_lib.M60              23D5
PM_RSMRST_L          PM_RSMRST_L - @m60_lib.M60          23C1 58D7
PM_SB_PWROK          PM_SB_PWROK - @m60_lib.M60          23C3 26D6
PM_SLP_S3            PM_SLP_S3 - @m60_lib.M60            77D7 78B8 80C8 81C8
                     SYS_PWRUP_L - @m60_lib.M60          77D6 83A8 83B6 83B7 83C5
                                                         83C7
PM_SLP_S3_L          PM_SLP_S3_L - @m60_lib.M60          23C3 58C5 77D8 79A7 88A6
                     MEMVTT_EN - @m60_lib.M60            31B5 79A6
PM_SLP_S4            PM_SLP_S4 - @m60_lib.M60            77B6 77C7 79C8 83C4
PM_SLP_S4_L          PM_SLP_S4_L - @m60_lib.M60          23C3 58C5 77C8
PM_SLP_S5_L          PM_SLP_S5_L - @m60_lib.M60          23C3 58C5
PM_STPCPU_L          PM_STPCPU_L - @m60_lib.M60          23C8 33C4
PM_STPPCI_L          PM_STPPCI_L - @m60_lib.M60          23C8 33C4
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PM_SYSRST_L          PM_SYSRST_L - @m60_lib.M60          5B8 23C5 26C3 58B7
PM_THRMTRIP_L        PM_THRMTRIP_L - @m60_lib.M60        7C6 14B6 21C2 59C7
PM_THRM_L            PM_THRM_L - @m60_lib.M60            10D3 23C8 58B7
POWER_BUTTON_L       POWER_BUTTON_L - @m60_lib.M60       5D1 59C8
PP0V9_S0_PGOOD       PP0V9_S0_PGOOD - @m60_lib.M60       77B8 79A2
PP1V2_S0_GPU_VDDPLL  PP1V2_S0_GPU_VDDPLL - @m60_lib.M60  91B6
PP1V05_S0_PGOOD      PP1V05_S0_PGOOD - @m60_lib.M60      77C8 81B2
PP1V5_S0_NB_3GPLL_F  PP1V5_S0_NB_3GPLL_F - @m60_lib.M60  19A5
PP1V5_S0_NB_VCC3G    PP1V5_S0_NB_VCC3G - @m60_lib.M60    17D6 19A3
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LA                   @m60_lib.M60
                     TP_NB_VCCA_DPLLA - @m60_lib.M60     19C5
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LB                   @m60_lib.M60
                     TP_NB_VCCA_DPLLB - @m60_lib.M60     19C5
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PP1V5_S0_SB_VCC1_5_B PP1V5_S0_SB_VCC1_5_B - @m60_lib.M60 22C1 24D5 25B7
PP1V5_S0_SB_VCCDMIPL PP1V5_S0_SB_VCCDMIPLL -             24B5 25A6
L                    @m60_lib.M60
PP1V8R2V0_S0_GPU_VDD PP1V8R2V0_S0_GPU_VDDRH0 -           87A7
RH0                  @m60_lib.M60
PP1V8R2V0_S0_GPU_VDD PP1V8R2V0_S0_GPU_VDDRH1 -           87B3
RH1                  @m60_lib.M60
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R4_F                 @m60_lib.M60
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R5_F                 @m60_lib.M60
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PP1V8_FB_A0_VDDA1    PP1V8_FB_A0_VDDA1 - @m60_lib.M60    89D7
PP1V8_FB_A1_VDDA0    PP1V8_FB_A1_VDDA0 - @m60_lib.M60    89D4
PP1V8_FB_A1_VDDA1    PP1V8_FB_A1_VDDA1 - @m60_lib.M60    89D4
PP1V8_FB_B0_VDDA0    PP1V8_FB_B0_VDDA0 - @m60_lib.M60    90D7
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PP2V5_S0_GPU_AVDD    PP2V5_S0_GPU_AVDD - @m60_lib.M60    93C7
PP2V5_S0_GPU_LPVDD   PP2V5_S0_GPU_LPVDD - @m60_lib.M60   93B7
PP2V5_S0_GPU_LVDDR   PP2V5_S0_GPU_LVDDR - @m60_lib.M60   93B7
PP2V5_S0_GPU_PVDD_F  PP2V5_S0_GPU_PVDD_F - @m60_lib.M60  91A6
PP2V5_S0_GPU_TPVDD   PP2V5_S0_GPU_TPVDD - @m60_lib.M60   93C7
PP2V5_S0_GPU_TXVDDR  PP2V5_S0_GPU_TXVDDR - @m60_lib.M60  93C7
PP2V5_S0_GPU_VDD1DI  PP2V5_S0_GPU_VDD1DI - @m60_lib.M60  93C8
PP2V5_S0_GPU_VDD2DI  PP2V5_S0_GPU_VDD2DI - @m60_lib.M60  93B8
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PP2V5_S5             PP2V5_S5 - @m60_lib.M60             57C8 83C7
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PP3V3_AUDIO_SPDIF_EM PP3V3_AUDIO_SPDIF_EMI -             73B7
I                    @m60_lib.M60
PP3V3_AUDIO_SPDIF_JA PP3V3_AUDIO_SPDIF_JACK -            73B5 73D8
CK                   @m60_lib.M60
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PP3V3_AVREF_SMC      PP3V3_AVREF_SMC - @m60_lib.M60      58D2 59A3
PP3V3_FW_ESD         PP3V3_FW_ESD - @m60_lib.M60         46A5 46A6 46B5 46C5 46D5
PP3V3_FW_ESD_F       PP3V3_FW_ESD_F - @m60_lib.M60       46A7
PP3V3_INTERCON       PP3V3_INTERCON - @m60_lib.M60       72C7
PP3V3_LCD_SW         PP3V3_LCD_SW - @m60_lib.M60         94C6
PP3V3_S0_CK410_VDD48 PP3V3_S0_CK410_VDD48 - @m60_lib.M60 33D5
PP3V3_S0_CK410_VDDA  PP3V3_S0_CK410_VDDA - @m60_lib.M60  33C6
PP3V3_S0_CK410_VDD_C PP3V3_S0_CK410_VDD_CPU_SRC -        33D6
PU_SRC               @m60_lib.M60
PP3V3_S0_CK410_VDD_P PP3V3_S0_CK410_VDD_PCI -            33D5
```

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CI                   @m60_lib.M60
PP3V3_S0_CK410_VDD_R PP3V3_S0_CK410_VDD_REF -            33C5
EF                   @m60_lib.M60
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PP3V3_S5_FW_VDDA     PP3V3_S5_FW_VDDA - @m60_lib.M60     44D5 45C6
PP3V3_S5_SB_RTC      PP3V3_S5_SB_RTC - @m60_lib.M60      5D2 21D6 24B3 25A3 26D7
PP3V3_TPM_3VSB       PP3V3_TPM_3VSB - @m60_lib.M60       59C5 67C4
PP4V5_AUDIO_ANALOG   PP4V5_AUDIO_ANALOG - @m60_lib.M60   68A2 68D2 74C4 74D8
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G                    @m60_lib.M60
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PP5V_S0_DDC          PP5V_S0_DDC - @m60_lib.M60          97D4
PP5V_S0_DDC_FUSE     PP5V_S0_DDC_FUSE - @m60_lib.M60     97D5
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PP5V_S0_SB_V5REF     PP5V_S0_SB_V5REF - @m60_lib.M60     24D5 25D7
PP5V_S3_BNDI         PP5V_S3_BNDI - @m60_lib.M60         47B2 47D1
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PP5V_USB2_PORT0      PP5V_USB2_PORT0 - @m60_lib.M60      47D7
PP5V_USB2_PORT0_F    PP5V_USB2_PORT0_F - @m60_lib.M60    47D5
PP5V_USB2_PORT1      PP5V_USB2_PORT1 - @m60_lib.M60      47C7
PP5V_USB2_PORT1_F    PP5V_USB2_PORT1_F - @m60_lib.M60    47C5
PP5V_USB2_PORT2      PP5V_USB2_PORT2 - @m60_lib.M60      47B7
PP5V_USB2_PORT2_F    PP5V_USB2_PORT2_F - @m60_lib.M60    47B5
PP12V_AUD_SPKRAMP_PL PP12V_AUD_SPKRAMP_PLANE -           72D5
ANE                  @m60_lib.M60
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PP12V_S5_CPU_REG     PP12V_S5_CPU_REG - @m60_lib.M60     75C3 75D4 75D7 76C8 76D6
PPFW_PORT0_VP        PPFW_PORT0_VP - @m60_lib.M60        46D2
                     PPFW_PORT1_VP - @m60_lib.M60        46B2 46D1
                     PPFW_PORTS_VP - @m60_lib.M60        46D3
PPFW_PORT0_VP_FL     PPFW_PORT0_VP_FL - @m60_lib.M60     46C2
PPFW_PORT1_VP_FL     PPFW_PORT1_VP_FL - @m60_lib.M60     46B2
PPVCORE_S0_GPU_MPVDD PPVCORE_S0_GPU_MPVDD - @m60_lib.M60 91A6
PPVCORE_S0_GPU_VDDCI PPVCORE_S0_GPU_VDDCI - @m60_lib.M60 86C7
PPVIN_S5_IMVP6_VIN   PPVIN_S5_IMVP6_VIN - @m60_lib.M60   75D6
PPV_3V3_AUDIO_CODEC  PPV_3V3_AUDIO_CODEC - @m60_lib.M60  68D6
Q4201_3              Q4201_3 - @m60_lib.M60              42D6
Q5950_1              Q5950_1 - @m60_lib.M60              60B7
R6000_1              R6000_1 - @m60_lib.M60              60A6
R6001_1              R6001_1 - @m60_lib.M60              60A6
R6002_1              R6002_1 - @m60_lib.M60              60A6
R6004_2              R6004_2 - @m60_lib.M60              60B6
R6597_2              R6597_2 - @m60_lib.M60              65A6
R7504_1              R7504_1 - @m60_lib.M60              75A8 75C1
R7507_1              R7507_1 - @m60_lib.M60              75A6 75B1
R8599_2              R8599_2 - @m60_lib.M60              85C4
R9499_1              R9499_1 - @m60_lib.M60              94C8
RSMRST_PWRGD         RSMRST_PWRGD - @m60_lib.M60         58D7 76D1
SATA_A_D2R_N         SATA_A_D2R_N - @m60_lib.M60         21B6 38A6
                     TP_SATA_A_D2R_N - @m60_lib.M60      38A5
SATA_A_D2R_P         SATA_A_D2R_P - @m60_lib.M60         21B6 38A6
                     TP_SATA_A_D2R_P - @m60_lib.M60      38A5
SATA_A_R2D_C_N       SATA_A_R2D_C_N - @m60_lib.M60       21B6 38A6
                     TP_SATA_A_R2D_N - @m60_lib.M60      38A5
SATA_A_R2D_C_P       SATA_A_R2D_C_P - @m60_lib.M60       21B6 38A6
                     TP_SATA_A_R2D_P - @m60_lib.M60      38A5
SATA_C_D2R_C_N       SATA_C_D2R_C_N - @m60_lib.M60       38B8
SATA_C_D2R_C_P       SATA_C_D2R_C_P - @m60_lib.M60       38B8
SATA_C_D2R_N         SATA_C_D2R_N - @m60_lib.M60         21B6 38B6
SATA_C_D2R_P         SATA_C_D2R_P - @m60_lib.M60         21B6 38B6
SATA_C_DET_L         SATA_C_DET_L - @m60_lib.M60         23D2 38B5
SATA_C_PWR_EN_L      SATA_C_PWR_EN_L - @m60_lib.M60      23A3 23B3
SATA_C_R2D_C_N       SATA_C_R2D_C_N - @m60_lib.M60       21B6 38B6
SATA_C_R2D_C_P       SATA_C_R2D_C_P - @m60_lib.M60       21B6 38B6
SATA_C_R2D_N         SATA_C_R2D_N - @m60_lib.M60         38B8
SATA_C_R2D_P         SATA_C_R2D_P - @m60_lib.M60         38B8
SATA_RBIAS_N         SATA_RBIAS_N - @m60_lib.M60         21B6 38C7
                     SATA_RBIAS_P - @m60_lib.M60         21B6 38C7
                     SATA_RBIAS - @m60_lib.M60           38C7
                     SATA_RBIAS_P - @m60_lib.M60         21B6 38C7
                     SATA_RBIAS - @m60_lib.M60           38C7
SB_A20GATE           SB_A20GATE - @m60_lib.M60           21C4
SB_ACZ_BITCLK        SB_ACZ_BITCLK - @m60_lib.M60        21C6
SB_ACZ_RST_L         SB_ACZ_RST_L - @m60_lib.M60         21C6
SB_ACZ_SDATAOUT      SB_ACZ_SDATAOUT - @m60_lib.M60      21C6
SB_ACZ_SYNC          SB_ACZ_SYNC - @m60_lib.M60          21C6
SB_CLK14P3M_TIMER    SB_CLK14P3M_TIMER - @m60_lib.M60    5B8 23D3 34D4
SB_CLK48M_USBCTLR    SB_CLK48M_USBCTLR - @m60_lib.M60    5B8 23D3 34C4
SB_CLK100M_DMI_N     SB_CLK100M_DMI_N - @m60_lib.M60     5B8 22C2 34A4 34C2
SB_CLK100M_DMI_P     SB_CLK100M_DMI_P - @m60_lib.M60     5B8 22C2 34A4 34C2
SB_CLK100M_SATA_N    SB_CLK100M_SATA_N - @m60_lib.M60    5C8 21B6 34B4 34C2
SB_CLK100M_SATA_OE_L SB_CLK100M_SATA_OE_L - @m60_lib.M60 23C3 33B4
SB_CLK100M_SATA_P    SB_CLK100M_SATA_P - @m60_lib.M60    5C8 21B6 34B4 34C2
SB_CRT_TVOUT_MUX     SB_CRT_TVOUT_MUX - @m60_lib.M60     22B5
SB_GPIO2             SB_GPIO2 - @m60_lib.M60             22A6 26C2
SB_GPIO3             SB_GPIO3 - @m60_lib.M60             22A6 26C2
SB_GPIO4             SB_GPIO4 - @m60_lib.M60             22A6 26C2
SB_GPIO19            SB_GPIO19 - @m60_lib.M60            23D3
SB_GPIO21            SB_GPIO21 - @m60_lib.M60            23D3
SB_GPIO26            SB_GPIO26 - @m60_lib.M60            23C7
SB_GPIO29            SB_GPIO29 - @m60_lib.M60            22C4 22D8
SB_GPIO30            SB_GPIO30 - @m60_lib.M60            22C4 22D8
SB_GPIO31            SB_GPIO31 - @m60_lib.M60            22C4 22D8
SB_GPIO37            SB_GPIO37 - @m60_lib.M60            23D3
SB_INTVRMEN          SB_INTVRMEN - @m60_lib.M60          21D6
SB_RTC_RST_L         SB_RTC_RST_L - @m60_lib.M60         21D6 26C7
SB_RTC_X1            SB_RTC_X1 - @m60_lib.M60            21D6 26D7
SB_RTC_X2            SB_RTC_X2 - @m60_lib.M60            21D6 26D7
SB_SM_INTRUDER_L     SB_SM_INTRUDER_L - @m60_lib.M60     21D6 26C7
SB_SPKR              SB_SPKR - @m60_lib.M60              23C5
SC_RX_L              SC_RX_L - @m60_lib.M60              58C5 59B6 59C4
SC_TX_L              SC_TX_L - @m60_lib.M60              58C5 59B4 59B6
SDVO_CTRLCLK         SDVO_CTRLCLK - @m60_lib.M60         14B6 19A2
                     TP_SDVO_CTRLCLK - @m60_lib.M60      19A1
SDVO_CTRLDATA        SDVO_CTRLDATA - @m60_lib.M60        14B6 19A2
                     TP_SDVO_CTRLDATA - @m60_lib.M60     19A1
SMB_ALERT_L          SMB_ALERT_L - @m60_lib.M60          23C5
SMB_BSA_CLK          SMB_BSA_CLK - @m60_lib.M60          58B5 59D1
SMB_BSA_DATA         SMB_BSA_DATA - @m60_lib.M60         58B5 59D1
SMB_BSB_CLK          SMB_BSB_CLK - @m60_lib.M60          58C5 59D1
SMB_BSB_DATA         SMB_BSB_DATA - @m60_lib.M60         58C7 59D1
SMB_LINK_ALERT_L     SMB_LINK_ALERT_L - @m60_lib.M60     23D5
SMC_ADAPTER_EN       SMC_ADAPTER_EN - @m60_lib.M60       58D5 59D5
                     TP_SMC_ADAPTER_EN - @m60_lib.M60    59D3
SMC_ANALOG_ID        SMC_ANALOG_ID - @m60_lib.M60        58A7 59C6
                     NC_SMC_ANALOG_ID - @m60_lib.M60     59C5
SMC_BATT_CHG_EN      SMC_BATT_CHG_EN - @m60_lib.M60      58D7 59D6
                     NC_SMC_BATT_CHG_EN - @m60_lib.M60   59D5
SMC_BATT_ISENSE      SMC_BATT_ISENSE - @m60_lib.M60      58D5 59B6
                     UNUSED_SMC_SENSE - @m60_lib.M60     59B5 59B5 59B6
                     SMC_FWIRE_ISENSE - @m60_lib.M60     58D5 59B6
                     UNUSED_SMC_SENSE - @m60_lib.M60     59B5 59B5 59B6
                     SMC_FWIRE_ISENSE - @m60_lib.M60     58D5 59B6
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SMC_BATT_ISET        SMC_BATT_ISET - @m60_lib.M60        58B5 59D6
                     NC_SMC_BATT_ISET - @m60_lib.M60     59D5
SMC_BATT_TRICKLE_EN_ SMC_BATT_TRICKLE_EN_L -             58D7 59D6
L                    @m60_lib.M60
                     NC_SMC_BATT_TRICKLE_EN_L -          59D5
                     @m60_lib.M60
SMC_BATT_VSET        SMC_BATT_VSET - @m60_lib.M60        58B5 59D6
                     NC_SMC_BATT_VSET - @m60_lib.M60     59D5
SMC_BC_ACOK          SMC_BC_ACOK - @m60_lib.M60          58C5 59B4
SMC_BS_ALRT_L        SMC_BS_ALRT_L - @m60_lib.M60        58C5 59B4
SMC_CASE_OPEN        SMC_CASE_OPEN - @m60_lib.M60        58C5 59C1
SMC_CPU_ISENSE       SMC_CPU_ISENSE - @m60_lib.M60       58D5 76D2
SMC_CPU_RESET_3_3_L  SMC_CPU_RESET_3_3_L - @m60_lib.M60  58B5 59A7
SMC_CPU_VSENSE       SMC_CPU_VSENSE - @m60_lib.M60       58D5 76B2
SMC_DCIN_ISENSE      SMC_DCIN_ISENSE - @m60_lib.M60      58D5 76D5
SMC_EXCARD_CP        SMC_EXCARD_CP - @m60_lib.M60        58B7 59C4
SMC_EXCARD_PWR_EN    SMC_EXCARD_PWR_EN - @m60_lib.M60    58B7 59C5
                     TP_SMC_EXCARD_PWR_EN - @m60_lib.M60 59C3
SMC_EXCARD_PWR_OC_L  SMC_EXCARD_PWR_OC_L - @m60_lib.M60  58B7 59C4
SMC_EXTAL            SMC_EXTAL - @m60_lib.M60            58C3 59B8
SMC_EXTSMI_L         SMC_EXTSMI_L - @m60_lib.M60         23B8 58B7
SMC_FAN_0_CTL        SMC_FAN_0_CTL - @m60_lib.M60        58B7 65D8
                     FAN_RPM0 - @m60_lib.M60             65D7
SMC_FAN_0_TACH       SMC_FAN_0_TACH - @m60_lib.M60       58B7 65C8
SMC_FAN_1_CTL        SMC_FAN_1_CTL - @m60_lib.M60        58B7 66C7
                     FAN_RPM2 - @m60_lib.M60             66C7
SMC_FAN_1_TACH       SMC_FAN_1_TACH - @m60_lib.M60       58B7 66C8
SMC_FAN_2_CTL        SMC_FAN_2_CTL - @m60_lib.M60        58B7 65B8
                     FAN_RPM1 - @m60_lib.M60             65B7
SMC_FAN_2_TACH       SMC_FAN_2_TACH - @m60_lib.M60       58B7 65A8
SMC_FAN_3_CTL        SMC_FAN_3_CTL - @m60_lib.M60        58B7 59C5
                     TP_SMC_FAN_3_CTL - @m60_lib.M60     59C3
SMC_FAN_3_TACH       SMC_FAN_3_TACH - @m60_lib.M60       58B7 59C5
                     TP_SMC_FAN_3_TACH - @m60_lib.M60    59C3
SMC_FWE              SMC_FWE - @m60_lib.M60              58B5 59B4
SMC_GPU_VSENSE       SMC_GPU_VSENSE - @m60_lib.M60       58D5 59B3
SMC_LID              SMC_LID - @m60_lib.M60              58B5 59C1
SMC_LRESET_L         SMC_LRESET_L - @m60_lib.M60         6B7 58C7
SMC_MANUAL_RST_L     SMC_MANUAL_RST_L - @m60_lib.M60     5D1 59D8
SMC_MD1              SMC_MD1 - @m60_lib.M60              58C1 60C3
SMC_MEM_ISENSE       SMC_MEM_ISENSE - @m60_lib.M60       58A7 59B6
                     NC_SMC_MEM_ISENSE - @m60_lib.M60    59B5
SMC_NB_ISENSE        SMC_NB_ISENSE - @m60_lib.M60        58A7 59B6
                     NC_SMC_NB_ISENSE - @m60_lib.M60     59B5
SMC_NMI              SMC_NMI - @m60_lib.M60              58C1 60C2
SMC_ODD_DETECT       SMC_ODD_DETECT - @m60_lib.M60       58B7 59C4
SMC_ONOFF_L          SMC_ONOFF_L - @m60_lib.M60          58C5 59B7 59C4
SMC_PB7              SMC_PB7 - @m60_lib.M60              59C5 59C5
                     TP_SMC_PB7 - @m60_lib.M60           59C3 59C3
SMC_PBUS_VSENSE      SMC_PBUS_VSENSE - @m60_lib.M60      58D5 76C6
SMC_PBUS_VSENSE_R    SMC_PBUS_VSENSE_R - @m60_lib.M60    76C8
SMC_PF0              SMC_PF0 - @m60_lib.M60              58B5 59D5
                     TP_SMC_PF0 - @m60_lib.M60           59D3
SMC_PF1              SMC_PF1 - @m60_lib.M60              58B5 59D5
                     TP_SMC_PF1 - @m60_lib.M60           59D3
SMC_PM_G2_EN         SMC_PM_G2_EN - @m60_lib.M60         58D5 59D5
                     TP_PM_G2_EN - @m60_lib.M60          59D3
SMC_PROCHOT          SMC_PROCHOT - @m60_lib.M60          58B5 59C7
SMC_PROCHOT_3_3_L    SMC_PROCHOT_3_3_L - @m60_lib.M60    58D5 59A7
SMC_RCIN_L           SMC_RCIN_L - @m60_lib.M60           21C3 58C7
SMC_REF_GATE1        SMC_REF_GATE1 - @m60_lib.M60        59A5
SMC_REF_GATE2        SMC_REF_GATE2 - @m60_lib.M60        59A4
SMC_REF_IN           SMC_REF_IN - @m60_lib.M60           59A4
SMC_RSTGATE_L        SMC_RSTGATE_L - @m60_lib.M60        58D7
SMC_RST_L            SMC_RST_L - @m60_lib.M60            58C3 59D7 60C2
SMC_RUNTIME_SCI_L    SMC_RUNTIME_SCI_L - @m60_lib.M60    23C8 58B7
SMC_RX_L             SMC_RX_L - @m60_lib.M60             5D1 58C7 59B4 59B5 60C2
SMC_SB_NMI           SMC_SB_NMI - @m60_lib.M60           23C3 58D7
SMC_SMB_0_CLK        SMC_SMB_0_CLK - @m60_lib.M60        58C7 59D1
                     TP_SMC_SMB_0_CLK - @m60_lib.M60     59D1
SMC_SMB_0_DATA       SMC_SMB_0_DATA - @m60_lib.M60       58C5 59D1
                     TP_SMC_SMB_0_DATA - @m60_lib.M60    59D1
SMC_SYS_ISET         SMC_SYS_ISET - @m60_lib.M60         58B5 59D6
                     NC_SMC_SYS_ISET - @m60_lib.M60      59D5
SMC_SYS_KBDLED       SMC_SYS_KBDLED - @m60_lib.M60       58C7 59D5
                     TP_SMC_SYS_KBDLED - @m60_lib.M60    59D3
SMC_SYS_LED          SMC_SYS_LED - @m60_lib.M60          58C7 60B8
SMC_SYS_LED_16B      SMC_SYS_LED_16B - @m60_lib.M60      58C7 60B8
SMC_SYS_VSET         SMC_SYS_VSET - @m60_lib.M60         58B5 59D6
                     NC_SMC_SYS_VSET - @m60_lib.M60      59D5
SMC_TCK              SMC_TCK - @m60_lib.M60              5D1 58C5 59B4 60C2
SMC_TDI              SMC_TDI - @m60_lib.M60              5D1 58B5 59B4 60C2
SMC_TDO              SMC_TDO - @m60_lib.M60              5D1 58B5 59B4 60C3
SMC_THRMTRIP         SMC_THRMTRIP - @m60_lib.M60         58B5 59C7
SMC_TMS              SMC_TMS - @m60_lib.M60              5D1 58B5 59B4 60C3
SMC_TPM_GPIO         SMC_TPM_GPIO - @m60_lib.M60         58D5 59B6
SMC_TPM_PP           SMC_TPM_PP - @m60_lib.M60           58C7 59A6
SMC_TPM_RESET_L      SMC_TPM_RESET_L - @m60_lib.M60      58B7 59C6 67B7
SMC_TRST_L           SMC_TRST_L - @m60_lib.M60           5D1 58C1 60C3
SMC_TX_L             SMC_TX_L - @m60_lib.M60             5D1 58C7 59B4 59B5 60C3
SMC_VCL              SMC_VCL - @m60_lib.M60              58D3
SMC_WAKE_SCI_L       SMC_WAKE_SCI_L - @m60_lib.M60       23C1 58D5
SMC_XDP_TCK          SMC_XDP_TCK - @m60_lib.M60          58C7
SMC_XDP_TCK_3_3      SMC_XDP_TCK_3_3 - @m60_lib.M60      58B5 59A5
SMC_XDP_TDO_3_3_L    SMC_XDP_TDO_3_3_L - @m60_lib.M60    58B7 59A5
SMC_XDP_TMS_L        SMC_XDP_TMS_L - @m60_lib.M60        58C7
SMC_XDP_TRST_L       SMC_XDP_TRST_L - @m60_lib.M60       58C7
SMC_XTAL             SMC_XTAL - @m60_lib.M60             58C3 59B8
SMLINK<0>            SMLINK<0> - @m60_lib.M60            23D5
SMLINK<1>            SMLINK<1> - @m60_lib.M60            23D5
SMS_INT_L            SMS_INT_L - @m60_lib.M60            23C3 26C2 58B5
SMS_ONOFF_L          SMS_ONOFF_L - @m60_lib.M60          58A5 59B4
SMS_X_AXIS           SMS_X_AXIS - @m60_lib.M60           58B7 59B6
                     NC_SMS_X_AXIS - @m60_lib.M60        59B5
SMS_Y_AXIS           SMS_Y_AXIS - @m60_lib.M60           58B7 59B6
                     NC_SMS_Y_AXIS - @m60_lib.M60        59B5
SMS_Z_AXIS           SMS_Z_AXIS - @m60_lib.M60           58A7 59B6
                     NC_SMS_Z_AXIS - @m60_lib.M60        59B5
SPARE_SRC3_N         SPARE_SRC3_N - @m60_lib.M60         34D2
SPARE_SRC3_P         SPARE_SRC3_P - @m60_lib.M60         34D2
SPARE_SRC7_N         SPARE_SRC7_N - @m60_lib.M60         34D2
SPARE_SRC7_P         SPARE_SRC7_P - @m60_lib.M60         34D2
SPI_ARB              SPI_ARB - @m60_lib.M60              22C6 58D5
SPI_CE_L             SPI_CE_L - @m60_lib.M60             22C6 58B5 63C7
SPI_HOLD_L           SPI_HOLD_L - @m60_lib.M60           63C4
SPI_SCLK             SPI_SCLK - @m60_lib.M60             22C6 58D5 63C7
SPI_SCLK_R           SPI_SCLK_R - @m60_lib.M60           63C4
SPI_SI               SPI_SI - @m60_lib.M60               22C6 58D5 63C1
SPI_SI_R             SPI_SI_R - @m60_lib.M60             63C3
SPI_SO               SPI_SO - @m60_lib.M60               22C6 58D5 63C1
SPI_SO_R             SPI_SO_R - @m60_lib.M60             63C3
SPI_WP_L             SPI_WP_L - @m60_lib.M60             63C4
SPKRAMP_MUTE         SPKRAMP_MUTE - @m60_lib.M60         72B5
SPKRAMP_SS           SPKRAMP_SS - @m60_lib.M60           72B4
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START_G_2V5_S0	START_G_2V5_S0 - @m60_lib.M60	83B8
START_G_3V3_S0	START_G_3V3_S0 - @m60_lib.M60	83C8
START_G_4V5_S0	START_G_4V5_S0 - @m60_lib.M60	83D6
START_G_5V_S0	START_G_5V_S0 - @m60_lib.M60	83B5
START_G_12V_S0	START_G_12V_S0 - @m60_lib.M60	83A8
SUS_CLK_SB	SUS_CLK_SB - @m60_lib.M60	23C3 59B5
	SMC_SUS_CLK - @m60_lib.M60	58C5 59B6
SV_SET_UP	SV_SET_UP - @m60_lib.M60	23B6 23C3 60C1
SW_RST_BTN_L	SW_RST_BTN_L - @m60_lib.M60	5D1 26C6
SW_RST_DEBNC	SW_RST_DEBNC - @m60_lib.M60	26C4
SYS_LED_BRT_D	SYS_LED_BRT_D - @m60_lib.M60	60B8
SYS_LED_C	SYS_LED_C - @m60_lib.M60	60B6
SYS_LED_CTL_B	SYS_LED_CTL_B - @m60_lib.M60	60B7
SYS_LED_CTL_C	SYS_LED_CTL_C - @m60_lib.M60	60B6
SYS_LED_CTL_D	SYS_LED_CTL_D - @m60_lib.M60	60B6
SYS_ONEWIRE	SYS_ONEWIRE - @m60_lib.M60	5B7 59B4
SYS_POWERFAIL_L	SYS_POWERFAIL_L - @m60_lib.M60	6D8 57B7 76D2 82B7
THERM_DX_N	THERM_DX_N - @m60_lib.M60	10B5 10C5
THERM_DX_P	THERM_DX_P - @m60_lib.M60	10B5 10C5
THRM_ALERT_L	THRM_ALERT_L - @m60_lib.M60	10D3
THRM_THM	THRM_THM - @m60_lib.M60	10C4
TMDS_CK_TERM	TMDS_CK_TERM - @m60_lib.M60	97C8
TMDS_CLK_N	TMDS_CLK_N - @m60_lib.M60	93C3 97C8
TMDS_CLK_P	TMDS_CLK_P - @m60_lib.M60	93C3 97C8
TMDS_CONN_CLKN	TMDS_CONN_CLKN - @m60_lib.M60	97C4 97C7
TMDS_CONN_CLKP	TMDS_CONN_CLKP - @m60_lib.M60	97C4 97C7
TMDS_CONN_DN<0>	TMDS_CONN_DN<0> - @m60_lib.M60	97C4 97D7
TMDS_CONN_DN<1>	TMDS_CONN_DN<1> - @m60_lib.M60	97C4 97D7
TMDS_CONN_DN<2>	TMDS_CONN_DN<2> - @m60_lib.M60	97C7 97D4
TMDS_CONN_DP<0>	TMDS_CONN_DP<0> - @m60_lib.M60	97C4 97D7
TMDS_CONN_DP<1>	TMDS_CONN_DP<1> - @m60_lib.M60	97C4 97D7
TMDS_CONN_DP<2>	TMDS_CONN_DP<2> - @m60_lib.M60	97C7 97D4
TMDS_DATA_N<0>	TMDS_DATA_N<0> - @m60_lib.M60	93C3 97D8
TMDS_DATA_N<1>	TMDS_DATA_N<1> - @m60_lib.M60	93C3 97D8
TMDS_DATA_N<2>	TMDS_DATA_N<2> - @m60_lib.M60	93C3 97C8
TMDS_DATA_N<3>	TMDS_DATA_N<3> - @m60_lib.M60	93C3 95D6
TMDS_DATA_N<4>	TMDS_DATA_N<4> - @m60_lib.M60	93C3 95D6
TMDS_DATA_N<5>	TMDS_DATA_N<5> - @m60_lib.M60	93C3 95D6
TMDS_DATA_P<0>	TMDS_DATA_P<0> - @m60_lib.M60	93C3 97D8
TMDS_DATA_P<1>	TMDS_DATA_P<1> - @m60_lib.M60	93C3 97C8
TMDS_DATA_P<2>	TMDS_DATA_P<2> - @m60_lib.M60	93C3 97C8
TMDS_DATA_P<3>	TMDS_DATA_P<3> - @m60_lib.M60	93C3 95D6
TMDS_DATA_P<4>	TMDS_DATA_P<4> - @m60_lib.M60	93C3 95D6
TMDS_DATA_P<5>	TMDS_DATA_P<5> - @m60_lib.M60	93C3 95D6
TO_GATE_12V_S0_R	TO_GATE_12V_S0_R - @m60_lib.M60	83A7
TPM_BADD	TPM_BADD - @m60_lib.M60	67C4
TPM_GPIO1	TPM_GPIO1 - @m60_lib.M60	59B5 67C6
TPM_GPIO2	TPM_GPIO2 - @m60_lib.M60	59B5 67C6
TPM_LRESET_L	TPM_LRESET_L - @m60_lib.M60	6B7 67B7
TPM_PP	TPM_PP - @m60_lib.M60	59A5 67C6
TPM_RST_L	TPM_RST_L - @m60_lib.M60	67B6
TPM_XTALI	TPM_XTALI - @m60_lib.M60	59B7 67C6
TPM_XTALO	TPM_XTALO - @m60_lib.M60	59B7 67C6
TP_ATI_ROMCS_L	TP_ATI_ROMCS_L - @m60_lib.M60	91A3
TP_AUD_BI_PORT_D_L	TP_AUD_BI_PORT_D_L - @m60_lib.M60	68C7
TP_AUD_BI_PORT_D_R	TP_AUD_BI_PORT_D_R - @m60_lib.M60	68C7
TP_AUD_BI_PORT_E_L	TP_AUD_BI_PORT_E_L - @m60_lib.M60	68C1
TP_AUD_BI_PORT_E_R	TP_AUD_BI_PORT_E_R - @m60_lib.M60	68C1
TP_AZ_DOCK_EN_L	TP_AZ_DOCK_EN_L - @m60_lib.M60	23C5
TP_AZ_DOCK_RST_L	TP_AZ_DOCK_RST_L - @m60_lib.M60	23C5
TP_CLK14P3M_SPARE	TP_CLK14P3M_SPARE - @m60_lib.M60	34C4
TP_CPU_A32_L	TP_CPU_A32_L - @m60_lib.M60	7C7
TP_CPU_A33_L	TP_CPU_A33_L - @m60_lib.M60	7B7
TP_CPU_A34_L	TP_CPU_A34_L - @m60_lib.M60	7B7
TP_CPU_A35_L	TP_CPU_A35_L - @m60_lib.M60	7B7
TP_CPU_A36_L	TP_CPU_A36_L - @m60_lib.M60	7B7
TP_CPU_A37_L	TP_CPU_A37_L - @m60_lib.M60	7B7
TP_CPU_A38_L	TP_CPU_A38_L - @m60_lib.M60	7B7
TP_CPU_A39_L	TP_CPU_A39_L - @m60_lib.M60	7B7
TP_CPU_APM0_L	TP_CPU_APM0_L - @m60_lib.M60	7B7
TP_CPU_APM1_L	TP_CPU_APM1_L - @m60_lib.M60	7B7
TP_CPU_CPUSLP_L	TP_CPU_CPUSLP_L - @m60_lib.M60	21C4
TP_CPU_EXTBREF	TP_CPU_EXTBREF - @m60_lib.M60	7B6
TP_CPU_HFPLL	TP_CPU_HFPLL - @m60_lib.M60	7B7
TP_CPU_SPARE0	TP_CPU_SPARE0 - @m60_lib.M60	7B6
TP_CPU_SPARE1	TP_CPU_SPARE1 - @m60_lib.M60	7B6
TP_CPU_SPARE2	TP_CPU_SPARE2 - @m60_lib.M60	7B6
TP_CPU_SPARE3	TP_CPU_SPARE3 - @m60_lib.M60	7B6
TP_CPU_SPARE4	TP_CPU_SPARE4 - @m60_lib.M60	7B6
TP_CPU_SPARE5	TP_CPU_SPARE5 - @m60_lib.M60	7B6
TP_CPU_SPARE6	TP_CPU_SPARE6 - @m60_lib.M60	7B6
TP_CPU_SPARE7	TP_CPU_SPARE7 - @m60_lib.M60	7B6
TP_FB_A_MA12	TP_FB_A_MA12 - @m60_lib.M60	87D5
TP_FB_A_ODT<0>	TP_FB_A_ODT<0> - @m60_lib.M60	87B5
TP_FB_A_ODT<1>	TP_FB_A_ODT<1> - @m60_lib.M60	87B5
TP_FB_B_MA12	TP_FB_B_MA12 - @m60_lib.M60	87D1
TP_FB_B_ODT<0>	TP_FB_B_ODT<0> - @m60_lib.M60	87B1
TP_FB_B_ODT<1>	TP_FB_B_ODT<1> - @m60_lib.M60	87B1
TP_FW_CNA	TP_FW_CNA - @m60_lib.M60	44B3
TP_FW_LKON	TP_FW_LKON - @m60_lib.M60	44B3
TP_FW_LPS	TP_FW_LPS - @m60_lib.M60	44B3
TP_FW_MPCIACT_L	TP_FW_MPCIACT_L - @m60_lib.M60	44B3
TP_FW_NANDTREE	TP_FW_NANDTREE - @m60_lib.M60	44B3
TP_FW_ROM_AD	TP_FW_ROM_AD - @m60_lib.M60	44B3
TP_FW_VAUX_PRES	TP_FW_VAUX_PRES - @m60_lib.M60	44B3
TP_LVDS_VBG	TP_LVDS_VBG - @m60_lib.M60	13D5
TP_MEM_A_A<14>	TP_MEM_A_A<14> - @m60_lib.M60	28C3
TP_MEM_A_A<15>	TP_MEM_A_A<15> - @m60_lib.M60	28C3
TP_MEM_B_A<14>	TP_MEM_B_A<14> - @m60_lib.M60	5B4 29C3
TP_MEM_B_A<15>	TP_MEM_B_A<15> - @m60_lib.M60	5B4 29C3
TP_NB_TESTIN_L	TP_NB_TESTIN_L - @m60_lib.M60	14D6
TP_NB_XOR_FSB2_H7	TP_NB_XOR_FSB2_H7 - @m60_lib.M60	14D6
TP_NB_XOR_LVDS_A34	TP_NB_XOR_LVDS_A34 - @m60_lib.M60	14C6
TP_NB_XOR_LVDS_A35	TP_NB_XOR_LVDS_A35 - @m60_lib.M60	14C6
TP_NB_XOR_LVDS_D27	TP_NB_XOR_LVDS_D27 - @m60_lib.M60	14C6
TP_NB_XOR_LVDS_D28	TP_NB_XOR_LVDS_D28 - @m60_lib.M60	14C6
TP_PCI_CLK_SPARE	TP_PCI_CLK_SPARE - @m60_lib.M60	5B4 34C4
TP_PCI_GNT0_L	TP_PCI_GNT0_L - @m60_lib.M60	22B6
TP_PCI_GNT2_L	TP_PCI_GNT2_L - @m60_lib.M60	22B6
TP_PCI_GNT3_L	TP_PCI_GNT3_L - @m60_lib.M60	22B6
TP_PCI_GNT4_L	TP_PCI_GNT4_L - @m60_lib.M60	22B6
TP_PCI_PME_L	TP_PCI_PME_L - @m60_lib.M60	22A6
TP_SB_ACZ_SDIN1	TP_SB_ACZ_SDIN1 - @m60_lib.M60	21C6
TP_SB_ACZ_SDIN2	TP_SB_ACZ_SDIN2 - @m60_lib.M60	21C6
TP_SB_DRQ0_L	TP_SB_DRQ0_L - @m60_lib.M60	21D4
TP_SB_GPIO6	TP_SB_GPIO6 - @m60_lib.M60	23C5
TP_SB_GPIO23	TP_SB_GPIO23 - @m60_lib.M60	21D5
TP_SB_GPIO25_DO_NOT_USE	TP_SB_GPIO25_DO_NOT_USE - @m60_lib.M60	23C3
TP_SB_GPIO38	TP_SB_GPIO38 - @m60_lib.M60	23C3
TP_SB_RSVD9	TP_SB_RSVD9 - @m60_lib.M60	22A6
TP_SB_SATALED_L	TP_SB_SATALED_L - @m60_lib.M60	21C6
TP_SB_XOR_AD5	TP_SB_XOR_AD5 - @m60_lib.M60	22A7
TP_SB_XOR_AD9	TP_SB_XOR_AD9 - @m60_lib.M60	22A7

TP_SB_XOR_AE5	TP_SB_XOR_AE5 - @m60_lib.M60	22A7
TP_SB_XOR_AE9	TP_SB_XOR_AE9 - @m60_lib.M60	22A6
TP_SB_XOR_AG4	TP_SB_XOR_AG4 - @m60_lib.M60	22A7
TP_SB_XOR_AG8	TP_SB_XOR_AG8 - @m60_lib.M60	22A6
TP_SB_XOR_AH4	TP_SB_XOR_AH4 - @m60_lib.M60	22A7
TP_SB_XOR_AH8	TP_SB_XOR_AH8 - @m60_lib.M60	22A6
TP_SB_XOR_T5	TP_SB_XOR_T5 - @m60_lib.M60	21C6
TP_SB_XOR_U3	TP_SB_XOR_U3 - @m60_lib.M60	21C6
TP_SB_XOR_U5	TP_SB_XOR_U5 - @m60_lib.M60	21C6
TP_SB_XOR_U7	TP_SB_XOR_U7 - @m60_lib.M60	21C6
TP_SB_XOR_V3	TP_SB_XOR_V3 - @m60_lib.M60	21C6
TP_SB_XOR_V4	TP_SB_XOR_V4 - @m60_lib.M60	21C6
TP_SB_XOR_V6	TP_SB_XOR_V6 - @m60_lib.M60	21C6
TP_SB_XOR_V7	TP_SB_XOR_V7 - @m60_lib.M60	21C6
TP_SB_XOR_W1	TP_SB_XOR_W1 - @m60_lib.M60	21C6
TP_SB_XOR_W3	TP_SB_XOR_W3 - @m60_lib.M60	21C6
TP_SB_XOR_Y1	TP_SB_XOR_Y1 - @m60_lib.M60	21C6
TP_SB_XOR_Y2	TP_SB_XOR_Y2 - @m60_lib.M60	21C6
TP_U8400_AG14	TP_U8400_AG14 - @m60_lib.M60	91A5
TP_U8900_J2	TP_U8900_J2 - @m60_lib.M60	89A7
TP_U8900_J3	TP_U8900_J3 - @m60_lib.M60	89A7
TP_U8950_J2	TP_U8950_J2 - @m60_lib.M60	89A4
TP_U8950_J3	TP_U8950_J3 - @m60_lib.M60	89A4
TP_U9000_J2	TP_U9000_J2 - @m60_lib.M60	90A7
TP_U9000_J3	TP_U9000_J3 - @m60_lib.M60	90A7
TP_U9050_J2	TP_U9050_J2 - @m60_lib.M60	90A4
TP_U9050_J3	TP_U9050_J3 - @m60_lib.M60	90A4
TSENSE_GPU_DXP	TSENSE_GPU_DXP - @m60_lib.M60	61C5
TSENSE_NB_DXP	TSENSE_NB_DXP - @m60_lib.M60	61B5
TSENSE_NB_GPU_DXN	TSENSE_NB_GPU_DXN - @m60_lib.M60	61B5
TV_DACA_OUT	TV_DACA_OUT - @m60_lib.M60	13C5 19B1
	TV_DACB_OUT - @m60_lib.M60	13C5 19B1
	TV_DACC_OUT - @m60_lib.M60	13C5 19B1
	TV_IRTNA - @m60_lib.M60	13C5 19B1
	TV_IRTNB - @m60_lib.M60	13C5 19B1
	TV_IRTNC - @m60_lib.M60	13C5 19B1
	TV_IREF - @m60_lib.M60	13C5 19B1
	PP3V3_S0_NB_VCCA_TVBG - @m60_lib.M60	17C6 19B1
	PP3V3_S0_NB_VCCA_TVDACC - @m60_lib.M60	17C6 19B1
	PP3V3_S0_NB_VCCA_TVDACB - @m60_lib.M60	17C6 19B1
	PP3V3_S0_NB_VCCA_TVDACA - @m60_lib.M60	17C6 19B1
	PP1V5_S0_NB_VCCD_TVDAC - @m60_lib.M60	17C6 19B1
	PP1V5_S0_NB_VCCD_QTVDAC - @m60_lib.M60	17B6 19B1
	=PP1V5_S0_AIRPORT - @m60_lib.M60	6C4 53D3
	PP1V5_S0 - @m60_lib.M60	6C6 80C1
	=PP1V5_S0_SB - @m60_lib.M60	6C4 25A8 25C8
	=PP1V5_S0_SB_VCC1_5_A - @m60_lib.M60	6C4 24A3 25C1
	=PP1V5_S0_SB_VCC1_5_A_USB_CORE - @m60_lib.M60	6C4 24A3 25B1
	=PP1V5_S0_SB_VCCUSBPLL - @m60_lib.M60	6C4 24A5 25B6
	=PP1V5_S0_SB_VCC1_5_A_ATX - @m60_lib.M60	6C4 24A5 25C6
	=PP1V5_S0_SB_VCCSATAPLL - @m60_lib.M60	6C4 24B5 25D6
	=PP1V5_S0_SB_VCC1_5_A_ARX - @m60_lib.M60	6C4 24B5 25D6
	=PP1V5_S0_NB_3GPLL - @m60_lib.M60	6C4 19A6 19A6
	=PP1V5_S0_NB_PLL - @m60_lib.M60	6C4 19C8 19D7
	=PP1V5_S0_NB_VCCAUX - @m60_lib.M60	6C4 6C4 16D1 17B6 19A7 19D7
	=PP1V5_S0_NB_VCCD_HMPLL - @m60_lib.M60	6C4 17C6 19D7
	=PP1V5_S0_NB_PCIE - @m60_lib.M60	6C4 13D2 19D7
	=PP1V5_S0_CPU - @m60_lib.M60	6C4 8B6 8C5
U600_3	U600_3 - @m60_lib.M60	6C7
U600_6	U600_6 - @m60_lib.M60	6B7
U600_8	U600_8 - @m60_lib.M60	6B7
U600_11	U600_11 - @m60_lib.M60	6A7
U2698_4	U2698_4 - @m60_lib.M60	26C4
U3100_VDDQ	U3100_VDDQ - @m60_lib.M60	31C5
U6100_VCC	U6100_VCC - @m60_lib.M60	61C4
U7400_CEXT	U7400_CEXT - @m60_lib.M60	74C4
U8595_1	U8595_1 - @m60_lib.M60	85D2

U9700_8	U9700_8 - @m60_lib.M60	6A6
USB_A_N	USB_A_N - @m60_lib.M60	22C2 47D7
USB_A_OC_L	USB_A_OC_L - @m60_lib.M60	22C4 22D8 47B8
USB_A_P	USB_A_P - @m60_lib.M60	22C2 47C7
USB_B_N	USB_B_N - @m60_lib.M60	22C2 53B2
USB_B_OC_L	USB_B_OC_L - @m60_lib.M60	22C4 22D8
USB_B_P	USB_B_P - @m60_lib.M60	22C2 53B2
USB_CAMERA_N	USB_CAMERA_N - @m60_lib.M60	47B2
USB_CAMERA_P	USB_CAMERA_P - @m60_lib.M60	47B2
USB_C_N	USB_C_N - @m60_lib.M60	22C2 47B7
USB_C_OC_L	USB_C_OC_L - @m60_lib.M60	22C4 22D8 47B8
USB_C_P	USB_C_P - @m60_lib.M60	22C2 47B7
USB_D_N	USB_D_N - @m60_lib.M60	22C2 47B3
USB_D_OC_L	USB_D_OC_L - @m60_lib.M60	22C4 22D8
USB_D_P	USB_D_P - @m60_lib.M60	22C2 47B3
USB_E_N	USB_E_N - @m60_lib.M60	22C2 47A7
USB_E_OC_L	USB_E_OC_L - @m60_lib.M60	22C4 22D8 47B8
USB_E_P	USB_E_P - @m60_lib.M60	22C2 47A7
USB_F_N	USB_F_N - @m60_lib.M60	22C2
USB_F_P	USB_F_P - @m60_lib.M60	22C2
USB_G_N	USB_G_N - @m60_lib.M60	22C2 47A3
	USB_BT_N - @m60_lib.M60	47A3
USB_G_P	USB_G_P - @m60_lib.M60	22C2 47A3
	USB_BT_P - @m60_lib.M60	47A3
USB_H_N	USB_H_N - @m60_lib.M60	22C2 47C3
USB_H_P	USB_H_P - @m60_lib.M60	22C2 47C3
USB_IR_N	USB_IR_N - @m60_lib.M60	47C2
USB_IR_P	USB_IR_P - @m60_lib.M60	47C2
USB_PORT0_N	USB_PORT0_N - @m60_lib.M60	47D5
USB_PORT0_P	USB_PORT0_P - @m60_lib.M60	47C5
USB_PORT1_N	USB_PORT1_N - @m60_lib.M60	47B5
USB_PORT1_P	USB_PORT1_P - @m60_lib.M60	47B5
USB_PORT2_N	USB_PORT2_N - @m60_lib.M60	47A5
USB_PORT2_P	USB_PORT2_P - @m60_lib.M60	47A5
USB_RBIAS_PN	USB_RBIAS_PN - @m60_lib.M60	22C2
VGA_B	VGA_B - @m60_lib.M60	97B6 97C5
VGA_G	VGA_G - @m60_lib.M60	97A6 97C5
VGA_HSYNC	VGA_HSYNC - @m60_lib.M60	97A3 97C5
VGA_R	VGA_R - @m60_lib.M60	97A6 97C5
VGA_VSYNC	VGA_VSYNC - @m60_lib.M60	97A3 97C5
VMAIN_AVLBL	VMAIN_AVLBL - @m60_lib.M60	41C7
VR_PWRGD_CK410	VR_PWRGD_CK410 - @m60_lib.M60	23C5 26A8
VR_PWRGOOD_DELAY	VR_PWRGOOD_DELAY - @m60_lib.M60	5C7 14B6 26D5 75C6
XDP_BPM_L<0>	XDP_BPM_L<0> - @m60_lib.M60	7C6 11B3
XDP_BPM_L<1>	XDP_BPM_L<1> - @m60_lib.M60	7C6 11B3
XDP_BPM_L<2>	XDP_BPM_L<2> - @m60_lib.M60	7C6 11B3
XDP_BPM_L<3>	XDP_BPM_L<3> - @m60_lib.M60	7C6 11B3
XDP_BPM_L<4>	XDP_BPM_L<4> - @m60_lib.M60	7C6 11B3
XDP_BPM_L<5>	XDP_BPM_L<5> - @m60_lib.M60	7C6 11B3
XDP_DBRESET_L	XDP_DBRESET_L - @m60_lib.M60	7C6 11B4 26B5
XDP_TCK	XDP_TCK - @m60_lib.M60	5D1 7A8 7C6 11B3 11B3
XDP_TDI	XDP_TDI - @m60_lib.M60	5D1 7B8 7C6 11B3
XDP_TDO	XDP_TDO - @m60_lib.M60	5D1 7C6 11B5
XDP_TMS	XDP_TMS - @m60_lib.M60	5D1 7B8 7C6 11B3
XDP_TRST_L	XDP_TRST_L - @m60_lib.M60	5D1 7C6 11B3
ZH701P1	ZH701P1 - @m60_lib.M60	6A3
ZH702P1	ZH702P1 - @m60_lib.M60	6A3
ZH703P1	ZH703P1 - @m60_lib.M60	6A3

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Design: m60
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C85A0	CAP_402	m60[85D1]
C600	CAP_402	m60[6C7]
C601	CAP_402	m60[6A3]
C602	CAP_402	m60[6A3]
C603	CAP_402	m60[6A3]
C620	CAP_603	m60[6D6]
C621	CAP_603	m60[6D6]
C622	CAP_805	m60[6D7]
C623	CAP_805-2	m60[6D7]
C624	CAP_1210	m60[6D8]
C625	CAP_P_6.3X5.5-SM	m60[6D8]
C0800	CAP_402	m60[8B5]
C0801	CAP_603	m60[8B5]
C900	CAP_805	m60[9B6]
C901	CAP_805	m60[9B6]
C902	CAP_805	m60[9A6]
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C904	CAP_805	m60[9A6]
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C906	CAP_805	m60[9A6]
C907	CAP_805	m60[9B5]
C908	CAP_805	m60[9B7]
C909	CAP_805	m60[9B5]
C910	CAP_805	m60[9B7]
C911	CAP_805	m60[9B7]
C912	CAP_805	m60[9A7]
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C920	CAP_805	m60[9A5]
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C924	CAP_805	m60[9A7]
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C926	CAP_402	m60[9B7]
C928	CAP_805	m60[9B6]
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C930	CAP_805	m60[9A6]
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C932	CAP_805	m60[9A6]
C934	CAP_402	m60[9B7]
C935	CAP_402	m60[9B7]
C936	CAP_402	m60[9B7]
C937	CAP_402	m60[9B6]
C938	CAP_402	m60[9B6]
C939	CAP_805	m60[9A5]
C940	CAP_P_CASE-C1	m60[9C7]
C941	CAP_P_3P_D2T	m60[9A7]
C942	CAP_P_3P_D2T	m60[9A7]
C943	CAP_P_3P_D2T	m60[9A7]
C944	CAP_P_3P_D2T	m60[9A7]
C945	CAP_P_3P_D2T	m60[9A6]
C946	CAP_P_3P_D2T	m60[9A6]
C950	CAP_402	m60[9D4]
C951	CAP_402	m60[9D3]
C952	CAP_402	m60[9D3]
C953	CAP_402	m60[9D2]
C1000	CAP_402	m60[10C6]
C1001	CAP_402	m60[10D4]
C1100	CAP_402	m60[11A3]
C1211	CAP_402	m60[12C3]
C1226	CAP_402	m60[12B6]
C1236	CAP_402	m60[12A6]
C1610	CAP_402	m60[16B5]
C1611	CAP_402	m60[16B4]
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C1613	CAP_402	m60[16B8]
C1614	CAP_402	m60[16B8]
C1615	CAP_402	m60[16B6]
C1620	CAP_805-1	m60[16B5]
C1621	CAP_805-1	m60[16B5]
C1711	CAP_402	m60[17A3]
C1712	CAP_402	m60[17A3]
C1713	CAP_402	m60[17B3]
C1900	CAP_P_CASE-C1	m60[19B5]
C1901	CAP_P_CASE-C1	m60[19B5]
C1902	CAP_805-1	m60[19B5]
C1903	CAP_805-1	m60[19B4]
C1904	CAP_402	m60[19B4]
C1905	CAP_402	m60[19B4]
C1906	CAP_402	m60[19B3]
C1907	CAP_402	m60[19B3]
C1914	CAP_805-1	m60[19A8]
C1915	CAP_402	m60[19A7]
C1916	CAP_402	m60[19A8]
C1918	CAP_402	m60[19A7]
C1934	CAP_805	m60[19C7]
C1935	CAP_402	m60[19C7]
C1936	CAP_805	m60[19C7]
C1937	CAP_402	m60[19C7]
C1965	CAP_603	m60[19B8]
C1966	CAP_603	m60[19B7]
C1967	CAP_402	m60[19B7]
C1968	CAP_P_CASE-C1	m60[19B7]
C1970	CAP_P_SMB2	m60[19A5]
C1971	CAP_805-1	m60[19A4]
C1972	CAP_805-1	m60[19A4]
C1975	CAP_805-1	m60[19A4]
C1976	CAP_402	m60[19A4]
C1981	CAP_603	m60[19B6]
C1982	CAP_603	m60[19B8]
C2500	CAP_P_SMB2	m60[25B8]
C2501	CAP_402	m60[25A6]
C2502	CAP_402	m60[25D4]
C2503	CAP_402	m60[25D8]
C2504	CAP_402	m60[25C8]
C2505	CAP_402	m60[25B7]
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C2507	CAP_402	m60[25B7]
C2508	CAP_805-1	m60[25A6]
C2509	CAP_402	m60[25B8]
C2510	CAP_402	m60[25C1]
C2511	CAP_402	m60[25D6]
C2512	CAP_402	m60[25B1]
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C2515	CAP_402	m60[25B6]
C2516	CAP_P_CASE-C2	m60[25D3]
C2517	CAP_402	m60[25D6]
C2518	CAP_402	m60[25D4]
C2519	CAP_402	m60[25D3]
C2520	CAP_402	m60[25B6]
C2521	CAP_402	m60[25C3]
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C2523	CAP_402	m60[25B4]
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C2525	CAP_402	m60[25B3]
C2526	CAP_402	m60[25A4]
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C2611	CAP_402	m60[26B7]
C2698	CAP_402	m60[26C4]
C2699	CAP_402	m60[26C5]
C2800	CAP_402	m60[28D6]
C2801	CAP_603	m60[28B2]
C2802	CAP_603	m60[28B2]
C2803	CAP_603	m60[28B1]
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C2919	CAP_402	m60[29B1]
C2920	CAP_402	m60[29B2]
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C2923	CAP_402	m60[29B1]
C2950	CAP_603	m60[29D6]
C2951	CAP_603	m60[29A7]
C2952	CAP_402	m60[29A6]
C3004	CAP_402	m60[30B4]
C3005	CAP_402	m60[30D4]
C3006	CAP_402	m60[30B3]
C3007	CAP_402	m60[30D3]
C3008	CAP_402	m60[30A3]
C3009	CAP_402	m60[30A4]
C3010	CAP_402	m60[30D4]
C3011	CAP_402	m60[30D3]
C3013	CAP_402	m60[30A4]
C3014	CAP_402	m60[30A4]
C3015	CAP_402	m60[30A3]
C3030	CAP_402	m60[30C4]
C3033	CAP_402	m60[30C3]
C3035	CAP_402	m60[30C3]
C3100	CAP_402	m60[31C4]
C3101	CAP_805-1	m60[31B6]
C3102	CAP_805-1	m60[31B4]
C3105	CAP_P_SMC-LF	m60[31B4]
C3109	CAP_603	m60[31C5]
C3110	CAP_402	m60[31B6]
C3301	CAP_402	m60[33D6]
C3302	CAP_402	m60[33D6]
C3303	CAP_402	m60[33D6]
C3304	CAP_402	m60[33D6]
C3305	CAP_402	m60[33D4]
C3306	CAP_402	m60[33D4]
C3307	CAP_402	m60[33C4]
C3308	CAP_402	m60[33D4]
C3309	CAP_805-1	m60[33D4]
C3310	CAP_402	m60[33D3]
C3311	CAP_402	m60[33C6]
C3312	CAP_805-1	m60[33C6]
C3314	CAP_402	m60[33D8]
C3315	CAP_402	m60[33D7]
C3316	CAP_805-1	m60[33D7]
C3317	CAP_805-1	m60[33D4]
C3389	CAP_402	m60[33C7]
C3390	CAP_402	m60[33C7]
C3800	CAP_402	m60[38B7]
C3801	CAP_402	m60[38B7]
C3802	CAP_402	m60[38B7]
C3803	CAP_402	m60[38B7]
C3804	CAP_402	m60[38C3]
C3805	CAP_402	m60[38C2]
C3806	CAP_805-2	m60[38C1]
C4101	CAP_402	m60[41D7]
C4102	CAP_402	m60[41D6]
C4103	CAP_402	m60[41D6]
C4104	CAP_402	m60[41D6]
C4105	CAP_402	m60[41D5]
C4106	CAP_402	m60[41D2]
C4107	CAP_402	m60[41D2]
C4110	CAP_402	m60[41D4]
C4111	CAP_402	m60[41D4]
C4112	CAP_402	m60[41C4]
C4113	CAP_402	m60[41C4]
C4115	CAP_402	m60[41B5]
C4116	CAP_402	m60[41B5]
C4117	CAP_402	m60[41B2]
C4118	CAP_402	m60[41B2]
C4126	CAP_402	m60[41A8]
C4127	CAP_402	m60[41A8]
C4128	CAP_402	m60[41A8]
C4129	CAP_402	m60[41A8]
C4130	CAP_402	m60[41A7]
C4131	CAP_402	m60[41A7]
C4132	CAP_402	m60[41A7]
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C4136	CAP_402	m60[41A5]
C4137	CAP_402	m60[41A5]
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C4139	CAP_402	m60[41A4]
C4140	CAP_402	m60[41B3]
C4150	CAP_402	m60[41D5]
C4200	CAP_1210	m60[42D8]
C4201	CAP_402	m60[42D7]
C4202	CAP_1210	m60[42D7]
C4203	CAP_1206-1	m60[42D6]
C4204	CAP_402	m60[42D6]
C4205	CAP_1210	m60[42C5]
C4206	CAP_402	m60[42C5]
C4209	CAP_603	m60[42B7]
C4210	CAP_402	m60[42B6]
C4300	CAP_402	m60[43D7]
C4301	CAP_402	m60[43D6]
C4304	CAP_402	m60[43C6]
C4305	CAP_402	m60[43B6]
C4401	CAP_402	m60[44D1]
C4402	CAP_402	m60[44C1]
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C4412	CAP_402	m60[44D1]
C4500	CAP_402	m60[45D4]
C4501	CAP_402	m60[45D3]
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C4506	CAP_402	m60[45C5]
C4507	CAP_402	m60[45C5]
C4508	CAP_402	m60[45D5]
C4509	CAP_402	m60[45D5]
C4510	CAP_402	m60[45D5]
C4515	CAP_805-1	m60[45D6]
C4520	CAP_402	m60[45D5]
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C4522	CAP_402	m60[45D3]
C4523	CAP_402	m60[45D3]
C4609	CAP_603-1	m60[46D5]
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C4613	CAP_402	m60[46C4]
C4615	CAP_603-1	m60[46C2]
C4616	CAP_402	m60[46B2]
C4620	CAP_402	m60[46B4]
C4621	CAP_402	m60[46B4]
C4622	CAP_402	m60[46A4]
C4623	CAP_402	m60[46A4]
C4625	CAP_603-1	m60[46A2]
C4626	CAP_402	m60[46A2]
C4650	CAP_402	m60[46C7]
C4654	CAP_402	m60[46B8]
C4660	CAP_402	m60[46C7]
C4664	CAP_402	m60[46B7]
C4700	CAP_805-1	m60[47C8]
C4710	CAP_P_B2	m60[47D6]
C4712	CAP_402	m60[47D5]
C4713	CAP_402	m60[47D5]
C4720	CAP_P_B2	m60[47C6]
C4722	CAP_402	m60[47C5]
C4723	CAP_402	m60[47C5]
C4730	CAP_P_B2	m60[47B6]
C4732	CAP_402	m60[47A5]
C4733	CAP_402	m60[47A5]
C4742	CAP_402	m60[47D2]
C4743	CAP_402	m60[47D1]
C4750	CAP_402	m60[47B6]
C4751	CAP_402	m60[47C6]
C4752	CAP_402	m60[47D6]
C4796	CAP_402	m60[47C8]
C4797	CAP_805-2	m60[47D3]
C4798	CAP_402	m60[47A2]
C4799	CAP_805-2	m60[47A2]
C5300	CAP_402	m60[53B7]
C5301	CAP_402	m60[53B7]
C5304	CAP_402	m60[53D5]
C5305	CAP_402	m60[53D5]
C5306	CAP_402	m60[53D4]
C5307	CAP_402	m60[53C4]
C5308	CAP_402	m60[53C5]
C5309	CAP_402	m60[53C4]
C5310	CAP_402	m60[53C4]
C5311	CAP_805-1	m60[53C3]
C5312	CAP_805-1	m60[53D4]
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C5314	CAP_805-1	m60[53C4]
C5700	CAP_402	m60[57D6]
C5701	CAP_603	m60[57D4]
C5702	CAP_402	m60[57C4]
C5703	CAP_603	m60[57B6]
C5706	CAP_402	m60[57C5]
C5707	CAP_402	m60[57C2]
C5708	CAP_402	m60[57C4]
C5709	CAP_1206	m60[57C3]
C5711	CAP_1210	m60[57D3]
C5713	CAP_805-1	m60[57D2]
C5714	CAP_805-1	m60[57D2]
C5715	CAP_P_TH-KZJ-LF	m60[57D2]
C5720	CAP_805	m60[57D8]
C5721	CAP_805-1	m60[57C8]
C5722	CAP_805-1	m60[57C8]
C5723	CAP_402	m60[57D7]
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C5725	CAP_805-1	m60[57C8]
C5726	CAP_805-1	m60[57C7]
C5753	CAP_1210	m60[57D3]
C5792	CAP_603	m60[57D5]
C5797	CAP_1210	m60[57D2]
C5798	CAP_1210	m60[57D2]
C5799	CAP_1210	m60[57D3]
C5800	CAP_402	m60[59B8]
C5801	CAP_402	m60[59B8]
C5802	CAP_805	m60[58D3]
C5803	CAP_402	m60[58D2]
C5804	CAP_402	m60[58D2]
C5805	CAP_402	m60[58D2]
C5806	CAP_402	m60[58D1]
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C5943	CAP_402	m60[59A5]
C5951	CAP_402	m60[60B6]
C6000	CAP_402	m60[60D4]
C6001	CAP_402	m60[60D4]
C6002	CAP_402	m60[60D4]
C6003	CAP_402	m60[60D4]
C6100	CAP_402	m60[61B5]
C6101	CAP_402	m60[61B5]
C6301	CAP_402	m60[63C2]
C6308	CAP_402	m60[63C5]
C6309	CAP_402	m60[63C6]
C6311	CAP_402	m60[63C2]
C6312	CAP_402	m60[63D3]
C6500	CAP_603	m60[65D5]
C6501	CAP_805	m60[65D5]
C6502	CAP_603	m60[65B4]
C6503	CAP_805	m60[65B5]
C6504	CAP_P_6.3X11-TH-LF1	m60[65C4]
C6505	CAP_P_6.3X11-TH-LF1	m60[65B3]
C6600	CAP_603	m60[66D4]
C6601	CAP_805	m60[66C5]
C6602	CAP_P_SM-LF	m60[66C3]
C6654	CAP_402	m60[66B4]
C6655	CAP_402	m60[66B2]
C6700	CAP_402	m60[67C4]
C6701	CAP_402	m60[67C4]
C6702	CAP_402	m60[67C3]
C6703	CAP_402	m60[67C3]
C6704	CAP_402	m60[59B7]
C6705	CAP_402	m60[59B7]
C6800	CAP_805-1	m60[68D6]
C6801	CAP_402	m60[68D6]
C6802	CAP_P_6.3X5.5-SM	m60[68D4]
C6803	CAP_P_6.3X5.5-SM	m60[68D3]
C6804	CAP_P_SMA-LF	m60[68B4]
C6805	CAP_805	m60[68B3]
C6806	CAP_805	m60[68B3]
C6807	CAP_P_SMA-LF	m60[68B3]
C6810	CAP_P_SMA-LF	m60[68B2]
C6812	CAP_402	m60[68B4]
C6813	CAP_402	m60[68B3]
C6821	CAP_402	m60[68C6]
C6830	CAP_402	m60[68D4]
C6833	CAP_402	m60[68B2]
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C6836	CAP_402	m60[68D3]
C7200	CAP_P_6.3X8-SM	m60[72D5]
C7201	CAP_1210	m60[72D5]
C7202	CAP_805	m60[72D4]
C7203	CAP_1210	m60[72D3]
C7204	CAP_805	m60[72D6]
C7205	CAP_805	m60[72C6]
C7206	CAP_805	m60[72C6]
C7207	CAP_805	m60[72C6]
C7208	CAP_603-1	m60[72C4]
C7209	CAP_805	m60[72B4]
C7210	CAP_402	m60[72B3]
C7211	CAP_402	m60[72B2]
C7212	CAP_402	m60[72B2]
C7213	CAP_402	m60[72B2]
C7214	CAP_603	m60[72B5]
C7215	CAP_402	m60[72C6]
C7216	CAP_402	m60[72C6]
C7217	CAP_P_6.3X8-SM	m60[72D6]
C7218	CAP_603	m60[72D5]
C7219	CAP_603	m60[72D4]
C7221	CAP_402	m60[72B7]
C7223	CAP_1210	m60[72D3]
C7317	CAP_402	m60[73B4]
C7318	CAP_805-1	m60[73B4]
C7326	CAP_402	m60[73D8]
C7400	CAP_402	m60[74B4]
C7401	CAP_402	m60[74D5]
C7402	CAP_402	m60[74A4]
C7403	CAP_P_6.3X5.5-SM	m60[74B7]
C7404	CAP_P_6.3X5.5-SM	m60[74B6]
C7405	CAP_P_SMA-LF	m60[74C7]
C7406	CAP_P_SMA-LF	m60[74C6]
C7407	CAP_402	m60[74D8]
C7408	CAP_402	m60[74D7]
C7415	CAP_402	m60[74A8]
C7416	CAP_402	m60[74A8]
C7417	CAP_402	m60[74A8]
C7418	CAP_805	m60[74A5]
C7419	CAP_603-1	m60[74A4]
C7424	CAP_402	m60[74C3]
C7435	CAP_P_6.3X8-SM	m60[74A3]
C7500	CAP_402	m60[75C4]
C7501	CAP_P_TH-MCZ	m60[75C2]
C7502	CAP_402	m60[75B4]
C7503	CAP_402	m60[75C1]
C7504	CAP_402	m60[75B1]
C7505	CAP_402	m60[75C8]
C7506	CAP_402	m60[75B7]
C7507	CAP_402	m60[75B7]
C7508	CAP_1210	m60[75C2]
C7509	CAP_1210	m60[75D1]
C7510	CAP_402	m60[75C8]
C7511	CAP_603	m60[75B2]
C7512	CAP_603	m60[75C2]
C7513	CAP_402	m60[75B7]
C7514	CAP_402	m60[75B8]
C7515	CAP_603	m60[75C4]

C7516	CAP_402	m60[75B4]
C7517	CAP_P_SM-3	m60[75D2]
C7518	CAP_P_SM-3	m60[75D2]
C7521	CAP_402	m60[75A6]
C7526	CAP_603	m60[75D6]
C7527	CAP_603	m60[75C5]
C7528	CAP_402	m60[75B5]
C7529	CAP_402	m60[75B5]
C7530	CAP_402	m60[75D6]
C7531	CAP_402	m60[75B5]
C7532	CAP_402	m60[75B6]
C7533	CAP_402	m60[75B6]
C7534	CAP_402	m60[75B5]
C7535	CAP_603	m60[75D5]
C7550	CAP_603	m60[75D1]
C7551	CAP_603	m60[75D1]
C7590	CAP_402	m60[75C3]
C7592	CAP_402	m60[75B3]
C7596	CAP_402	m60[75D6]
C7597	CAP_1210	m60[75D1]
C7598	CAP_1210	m60[75D1]
C7599	CAP_402	m60[76D6]
C7612	CAP_402	m60[76B2]
C7633	CAP_402	m60[76C7]
C7710	CAP_402	m60[77C7]
C7711	CAP_402	m60[77B7]
C7712	CAP_402	m60[77C7]
C7750	CAP_402	m60[77B2]
C7751	CAP_805	m60[77C3]
C7752	CAP_805	m60[77C3]
C7753	CAP_402	m60[77B5]
C7754	CAP_402	m60[77B4]
C7755	CAP_805	m60[77B2]
C7756	CAP_805	m60[77B2]
C7757	CAP_402	m60[77B5]
C7797	CAP_402	m60[77C3]
C7798	CAP_603	m60[77B5]
C7799	CAP_402	m60[77A2]
C7800	CAP_1210	m60[78C3]
C7801	CAP_P_TH-MCZ	m60[78C4]
C7802	CAP_603	m60[78C6]
C7803	CAP_603	m60[78B7]
C7804	CAP_402	m60[78C7]
C7805	CAP_603	m60[78C5]
C7806	CAP_805-1	m60[78B3]
C7807	CAP_P_TH	m60[78B3]
C7809	CAP_402	m60[78B3]
C7810	CAP_402	m60[78B5]
C7811	CAP_402	m60[78B5]
C7813	CAP_1206	m60[78B4]
C7814	CAP_402	m60[78B5]
C7897	CAP_805-1	m60[78B2]
C7899	CAP_1210	m60[78C3]
C7900	CAP_402	m60[79D6]
C7901	CAP_603	m60[79D5]
C7902	CAP_402	m60[79C5]
C7903	CAP_603	m60[79C7]
C7906	CAP_402	m60[79C5]
C7907	CAP_402	m60[79C3]
C7908	CAP_402	m60[79C5]
C7909	CAP_1206	m60[79C3]
C7910	CAP_P_TH-MCZ	m60[79D4]
C7911	CAP_1210	m60[79D3]
C7912	CAP_P_CASE-D2E-LF	m60[79C2]
C7913	CAP_1206	m60[79C2]
C7980	CAP_402	m60[79A3]
C7992	CAP_603	m60[79D6]
C7997	CAP_1210	m60[79D3]
C7998	CAP_P_CASE-D2E-LF	m60[79C2]
C8000	CAP_1210	m60[80D3]
C8001	CAP_P_CASE-D2E-LF	m60[80C2]
C8002	CAP_603	m60[80D6]
C8003	CAP_402	m60[80C3]
C8004	CAP_1206	m60[80C3]
C8005	CAP_402	m60[80C4]
C8006	CAP_402	m60[80D6]
C8009	CAP_603	m60[80C6]
C8010	CAP_603	m60[80C4]
C8011	CAP_402	m60[80C5]
C8012	CAP_402	m60[80C5]
C8015	CAP_1210	m60[80D3]
C8016	CAP_805-1	m60[80C2]
C8090	CAP_1210	m60[80D3]
C8091	CAP_1210	m60[80D2]
C8092	CAP_1210	m60[80D2]
C8099	CAP_P_CASE-D2E-LF	m60[80C2]
C8100	CAP_402	m60[81D6]
C8101	CAP_603	m60[81C5]
C8102	CAP_402	m60[81C5]
C8103	CAP_603	m60[81C7]
C8106	CAP_402	m60[81C5]
C8107	CAP_402	m60[81C3]
C8108	CAP_402	m60[81C5]
C8109	CAP_1206	m60[81C3]
C8110	CAP_1210	m60[81D4]
C8111	CAP_1210	m60[81D3]
C8112	CAP_1210	m60[81D3]
C8114	CAP_P_CASE-D2E-LF	m60[81C2]
C8115	CAP_805-1	m60[81C2]
C8190	CAP_P_CASE-D2E-LF	m60[81C2]
C8192	CAP_603	m60[81D6]
C8198	CAP_1210	m60[81D3]
C8199	CAP_402	m60[81A5]
C8200	CAP_402	m60[82D6]
C8201	CAP_603	m60[82D4]
C8202	CAP_402	m60[82C4]
C8203	CAP_603	m60[82B6]
C8206	CAP_402	m60[82C5]
C8207	CAP_402	m60[82C2]
C8208	CAP_402	m60[82C4]
C8209	CAP_1206	m60[82C3]
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C8213	CAP_805-1	m60[82D2]
C8214	CAP_805-1	m60[82D2]
C8215	CAP_P_TH-KZJ-LF	m60[82D2]
C8220	CAP_805	m60[82D8]
C8221	CAP_805-1	m60[82C8]
C8222	CAP_805-1	m60[82C8]
C8223	CAP_402	m60[82D7]
C8224	CAP_402	m60[82C6]
C8225	CAP_805-1	m60[82C8]
C8226	CAP_805-1	m60[82C7]
C8253	CAP_P_TH-KZJ-LF	m60[82D3]
C8292	CAP_603	m60[82D5]

C8310	CAP_603-1	m60[83D8]
C8311	CAP_603-1	m60[83D7]
C8315	CAP_603-1	m60[83B5]
C8316	CAP_603	m60[83A6]
C8317	CAP_603-1	m60[83B8]
C8318	CAP_603-1	m60[83B7]
C8319	CAP_603	m60[83A7]
C8320	CAP_402	m60[83A7]
C8321	CAP_603-1	m60[83C5]
C8325	CAP_603-1	m60[83D6]
C8326	CAP_603-1	m60[83D5]
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C8399	CAP_603	m60[83D2]
C8400	CAP_805	m60[84C7]
C8401	CAP_402	m60[84C7]
C8402	CAP_402	m60[84C7]
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C8406	CAP_402	m60[84B7]
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C8410	CAP_805	m60[84B6]
C8411	CAP_402	m60[84B7]
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C8500	CAP_603	m60[85D6]
C8501	CAP_603	m60[85D6]
C8502	CAP_603	m60[85D6]
C8506	CAP_402	m60[85C8]
C8507	CAP_402	m60[85C7]
C8508	CAP_402	m60[85C7]
C8509	CAP_402	m60[85C5]
C8521	CAP_402	m60[85C4]
C8522	CAP_402	m60[85C5]
C8530	CAP_1210	m60[85D4]
C8531	CAP_1210	m60[85D4]
C8532	CAP_1210	m60[85D4]
C8540	CAP_805	m60[85C2]
C8541	CAP_805	m60[85C2]
C8542	CAP_P_CASE-D2E-LF	m60[85C2]
C8543	CAP_P_CASE-D2E-LF	m60[85C2]
C8590	CAP_402	m60[85D3]
C8592	CAP_402	m60[85C2]
C8595	CAP_402	m60[85D1]
C8598	CAP_402	m60[85D2]
C8599	CAP_1206	m60[85C4]
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C8601	CAP_805	m60[86C7]
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C8613	CAP_402	m60[86C6]
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C8615	CAP_402	m60[86C5]
C8616	CAP_402	m60[86C5]
C8630	CAP_805	m60[86C6]

C8631	CAP_402	m60[86C6]
C8632	CAP_402	m60[86C5]
C8633	CAP_402	m60[86C5]
C8634	CAP_402	m60[86C5]
C8650	CAP_805	m60[86B7]
C8651	CAP_805	m60[86B7]
C8652	CAP_805	m60[86B7]
C8653	CAP_805	m60[86B6]
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C8669	CAP_402	m60[86B6]
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C8675	CAP_402	m60[86B6]
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C8682	CAP_402	m60[86A5]
C8683	CAP_402	m60[86A5]
C8690	CAP_805	m60[86D5]
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C8723	CAP_402	m60[87B4]
C8725	CAP_402	m60[87A4]
C8726	CAP_402	m60[87A3]
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C8965	CAP_402	m60[89D3]
C8970	CAP_805	m60[89C5]
C8971	CAP_402	m60[89C4]
C8972	CAP_402	m60[89C4]
C8973	CAP_402	m60[89C4]
C8974	CAP_402	m60[89C4]
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C8981	CAP_402	m60[89C3]
C8983	CAP_402	m60[89C3]
C9000	CAP_805	m60[90D7]
C9001	CAP_402	m60[90D7]
C9002	CAP_402	m60[90D7]
C9003	CAP_402	m60[90D7]
C9004	CAP_402	m60[90D6]
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C9033	CAP_402	m60[90C6]
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C9065	CAP_402	m60[90D3]
C9070	CAP_805	m60[90C5]
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C9073	CAP_402	m60[90C4]
C9074	CAP_402	m60[90C4]
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C9076	CAP_402	m60[90C3]
C9081	CAP_402	m60[90C3]
C9083	CAP_402	m60[90C3]
C9100	CAP_805	m60[91C5]
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C9102	CAP_402	m60[91C5]
C9103	CAP_402	m60[91C5]
C9110	CAP_805	m60[91C5]
C9111	CAP_402	m60[91C5]
C9112	CAP_402	m60[91C5]
C9115	CAP_805	m60[91B5]
C9116	CAP_402	m60[91B5]
C9117	CAP_402	m60[91B5]
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C9126	CAP_402	m60[91B5]
C9127	CAP_402	m60[91B5]
C9130	CAP_805	m60[91A6]
C9131	CAP_402	m60[91A6]
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C9137	CAP_402	m60[91A5]
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C9142	CAP_402	m60[91A5]
C9191	CAP_402	m60[91D2]
C9300	CAP_805	m60[93C6]
C9301	CAP_402	m60[93C6]
C9302	CAP_402	m60[93C5]
C9305	CAP_805	m60[93C6]
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C9345	CAP_805	m60[93A6]
C9346	CAP_402	m60[93A5]
C9347	CAP_402	m60[93A5]
C9400	CAP_603-1	m60[94C7]
C9401	CAP_402	m60[94C6]
C9410	CAP_402	m60[94C6]
C9420	CAP_1210	m60[94C5]
C9470	CAP_402	m60[94B2]
C9700	CAP_402	m60[97C8]
C9710	CAP_603	m60[97C3]
C9711	CAP_402	m60[97D3]
C9713	CAP_402	m60[97C2]
C9714	CAP_402	m60[97C2]
C9740	CAP_402	m60[97A7]
C9741	CAP_402	m60[97A6]
C9742	CAP_402	m60[97A6]
C9750	CAP_402	m60[97B4]
D2500	DIODE_SCHOT_SOT23	m60[25C8]
D2501	DIODE_SCHOT_SOT23	m60[25D8]
D2600	DIODE_SCHOT_SOT23	m60[26D8]
D2601	DIODE_SCHOT_SOT23	m60[26C8]
D4600	DIODE_SMC	m60[46D5]
D4690	ZENER_SOT23	m60[46A6]
D4700	DIODE_SCHOT_3P_A_SC-75	m60[47C5]
D4701	DIODE_SCHOT_3P_A_SC-75	m60[47B5]
D4702	DIODE_SCHOT_3P_A_SC-75	m60[47A5]
D5700	DIODE_SCHOT_5P_TLM83	m60[57C4]
D6500	DIODE_SOT23	m60[65C4]
D6501	DIODE_SOT23	m60[65B4]
D6502	DIODE_SCHOT_SMB	m60[65C4]
D6503	DIODE_SCHOT_SMB	m60[65B4]
D6600	DIODE_SOT23	m60[66C4]
D6601	DIODE_SCHOT_SMB	m60[66C3]
D7500	DIODE_SCHOT_SMB	m60[75C3]
D7501	DIODE_SCHOT_SMB	m60[75B2]
D7599	DIODE_SOT23	m60[76D6]
D7800	DIODE_SCHOT_5P_TLM83	m60[78B4]
D7900	DIODE_SCHOT_5P_TLM83	m60[79C4]
D8000	DIODE_SCHOT_5P_TLM83	m60[80C4]
D8100	DIODE_SCHOT_5P_TLM83	m60[81C4]
D8200	DIODE_SCHOT_5P_TLM83	m60[82C3]
D8310	DIODE_SCHOT_SOD-123	m60[83A6]
D8520	DIODE_SCHOT_SMB	m60[85C3]
D9700	ZENER_CASE425	m60[97C1]
DP4610	DIODE_DUAL_6P_SOT-36	m60[46D4 46D3]
DP4611	DIODE_DUAL_6P_SOT-36	m60[46C4 46C3]
DP4620	DIODE_DUAL_6P_SOT-36	m60[46B4 46B3]
DP4621	DIODE_DUAL_6P_SOT-36	m60[46A4 46A3]
DZ7300	SUPPR_TRANSIENT1_402	m60[73D6]
DZ7301	SUPPR_TRANSIENT1_402	m60[73C6]
DZ7302	SUPPR_TRANSIENT1_402	m60[73C6]
DZ7311	SUPPR_TRANSIENT1_402	m60[73A7]
DZ7313	SUPPR_TRANSIENT1_402	m60[73A6]
DZ7314	SUPPR_TRANSIENT1_402	m60[73A6]
DZ7315	SUPPR_TRANSIENT1_402	m60[73A6]
DZ7323	SUPPR_TRANSIENT1_402	m60[73A5]
DZ7324	SUPPR_TRANSIENT1_402	m60[73C5]
DZ7325	SUPPR_TRANSIENT1_402	m60[73C3]
DZ7326	SUPPR_TRANSIENT1_402	m60[73C3]
DZ7380	SUPPR_TRANSIENT1_402	m60[73A7]
F4602	FUSE_MINISMD-LF	m60[46D3]
F4701	FUSE_MINISMD-LF	m60[47D3]
F9710	FUSE_SM-LF	m60[97D5]
FL4610	FILTER_4P_2012	m60[46C3]
FL4620	FILTER_4P_2012	m60[46B3]
FL9740	FILTER_LC_SM-220MHZ-LF	m60[97B7]
FL9741	FILTER_LC_SM-220MHZ-LF	m60[97A7]
FL9742	FILTER_LC_SM-220MHZ-LF	m60[97A7]
FLE011	FILTER_4P_2012	m60[46C3]
FLE021	FILTER_4P_2012	m60[46B3]

GV3801	HOLE_VIA	m60[38A8]
GV3802	HOLE_VIA	m60[38A7]
GV3803	HOLE_VIA	m60[38A8]
GV3804	HOLE_VIA	m60[38A7]
GV3805	HOLE_VIA	m60[38A8]
GV3806	HOLE_VIA	m60[38A7]
GV3807	HOLE_VIA	m60[38A8]
GV3808	HOLE_VIA	m60[38A7]
J3	CON_2RTSM_125_SM-2MT -BLK-LF	m60[61B6]
J600	CON_M14RT_D_THA_M-RT -TH1	m60[6D7]
J0700	CPU_YONAH_SKT_BGA	m60[7C3 7D7]
J0700	CPU_YONAH_SKT_BGA	m60[8D4 8D8]
J1000	CON_2RTSM_125_SM-2MT -BLK-LF	m60[10B7]
J1101	CON_F28RT_S2MT_SM_F- RT-SM	m60[11C2]
J2600	BATTERY_2P_SM	m60[26C8]
J2800	CON_F200RT_DDR2DIMM_ 5MT_SM_F-RT-SM1	m60[28D5]
J2900	CON_F200RT_DDR2DIMM_ 5MT_SM_F-RT-SM1	m60[29D5]
J2901	CON_F4ST_S2MT_SM_F-S T-SM	m60[59C7]
J2903	CON_M2ST_S2MT_SM_M-S T-SM	m60[59C8]
J4700	CON_F10ST_D_SMA_F-ST -SM	m60[47A2]
J5300	CON_F52RT_D2MT_SM_F- RT-SM	m60[53C5]
J6000	CON_F30STSM_5047_SM1	m60[60C3]
J6500	CON_M4RT_S2MT_SM_M-R T-SM	m60[65D3]
J6501	CON_M5RT_S2MT_SMA_M- RT-SM	m60[65B2]
J6600	CON_F4ST_S2MT_SM_F-S T-SM	m60[66C2]
J6601	CON_M4RT_S2MT_SM_M-R T-SM	m60[66B5]
J6602	CON_M4RT_S2MT_SM_M-R T-SM	m60[66B3]
J7300	CON_F9ANG_S4MT_TH3_F -ANG-TH	m60[73D8]
J7301	CON_M7RT_S2MT_SM_M-R T-SM	m60[73C1]
J7303	CON_F9ANG_S4MT_TH1_F -ANG-TH	m60[73B3]
J9402	CON_F30ST_D_SM_F-ST- SM	m60[94B6]
J9710	CON_DVI_F32ST_Q2MT_S M_F-ST-SM	m60[97D5]
JC900	CON_M7ST_SATA_SM_M-S T-SM	m60[38B8]
JC901	CON_M50SM_5MM_M-ST-S M2-LF	m60[38C2]
JD600	CON_RJ45_10ANG_S3MT_ TH1_F-ANG-TH	m60[43C6]
JE000	CON_F6ANG_S4MT_TH1_F -ANG-TH	m60[46C2]
JE001	CON_F6ANG_S4MT_TH1_F -ANG-TH	m60[46B2]
JE310	CON_F4ANG_3MT_USB_TH 1_F-ANG-TH	m60[47D4]
JE320	CON_F4ANG_3MT_USB_TH 1_F-ANG-TH	m60[47B4]
JE330	CON_F4ANG_3MT_USB_TH 1_F-ANG-TH	m60[47A4]
JE350	CON_M14RT_S2MT_SM_M- RT-SM	m60[47C1]
L1934	IND_0603	m60[19C7]
L1936	IND_0603	m60[19C7]
L1970	IND_1210	m60[19A5]
L1975	IND_0805	m60[19A5]
L2500	IND_SM-3	m60[25B8]
L2507	IND_1206	m60[25A7]
L3301	IND_0402-LF	m60[33D7]
L3302	IND_0402-LF	m60[33D3]
L4200	IND_0805	m60[42D7]
L4201	IND_0805	m60[42B7]
L4300	IND_SM	m60[43D7]
L4409	IND_0402	m60[44D6]
L4610	IND_1206-LF	m60[46D2]
L4620	IND_1206-LF	m60[46B2]
L4690	IND_SM-1	m60[46A6]
L4710	IND_SM	m60[47D6]
L4712	FILTER_4P_2012	m60[47C6]
L4720	IND_SM	m60[47C6]
L4722	FILTER_4P_2012	m60[47B6]
L4730	IND_SM	m60[47B6]
L4732	FILTER_4P_2012	m60[47A6]
L4740	IND_SM	m60[47D2]
L4742	FILTER_4P_2012	m60[47C2]
L4752	FILTER_4P_2012	m60[47B2]
L5703	IND_IHLP	m60[57D3]
L6801	IND_0603-LF	m60[68D6]
L6802	IND_0603-LF	m60[68A4]
L7200	IND_SM-1	m60[72D6]
L7201	IND_0603-LF	m60[72C2]
L7202	IND_0603-LF	m60[72C2]
L7203	IND_0603-LF	m60[72C3]
L7204	IND_0603-LF	m60[72C3]
L7205	IND_0603	m60[72D6]
L7206	IND_0603	m60[72C6]
L7207	IND_0603	m60[72C6]
L7208	IND_0603	m60[72C6]
L7300	IND_0603-LF	m60[73D6]
L7301	IND_0603-LF	m60[73D6]
L7302	IND_0603-LF	m60[73D6]
L7303	IND_0603-LF	m60[73D6]
L7304	IND_0603-LF	m60[73D5]
L7305	IND_0603-LF	m60[73D5]
L7306	IND_0603-LF	m60[73D5]
L7307	IND_0603-LF	m60[73D5]
L7309	IND_0603-LF	m60[73C4]
L7310	IND_0603-LF	m60[73C4]
L7312	IND_0603-LF	m60[73C3]
L7313	IND_0603-LF	m60[73C3]
L7315	IND_0603-LF	m60[73B7]
L7316	IND_0603-LF	m60[73B7]
L7317	IND_0603-LF	m60[73A7]
L7318	IND_0603-LF	m60[73B7]
L7319	IND_0603-LF	m60[73A7]
L7323	IND_0603-LF	m60[73B5]
L7324	IND_0603-LF	m60[73B5]
L7325	IND_0603-LF	m60[73A5]
L7326	IND_0603-LF	m60[73B5]
L7327	IND_0603-LF	m60[73A5]
L7381	IND_0603-LF	m60[73A5]
L7500	IND_SM	m60[75D1]
L7501	IND_SM	m60[75B2]
L7502	IND_TH-VERT-LF	m60[76D8]
L7750	IND_SM-LF	m60[77B2]
L7800	IND_3P_SM	m60[78C3]
L7880	IND_0603-LF	m60[73A7]
L7900	IND_3P_SM	m60[79C3]
L8000	IND_IHLP	m60[80C3]
L8100	IND_IHLP	m60[81C3]
L8203	IND_IHLP	m60[82D3]
L8400	IND_0402	m60[84B7]
L8520	IND_IHLP	m60[85C3]
L8715	IND_0402	m60[87A7]
L8725	IND_0402	m60[87A4]
L8910	IND_0402	m60[89D7]
L8915	IND_0402	m60[89D7]
L8960	IND_0402	m60[89D4]
L8965	IND_0402	m60[89D4]
L9010	IND_0402	m60[90D7]
L9015	IND_0402	m60[90D7]
L9060	IND_0402	m60[90D4]
L9065	IND_0402	m60[90D4]
L9120	IND_0402	m60[91B6]
L9125	IND_0402	m60[91B6]
L9130	IND_0402	m60[91B7]
L9135	IND_0402	m60[91A7]
L9140	IND_0402	m60[91A7]
L9300	IND_0402	m60[93C7]
L9305	IND_0402	m60[93C7]
L9310	IND_0402	m60[93C7]
L9315	IND_0402	m60[93C7]
L9320	IND_0402	m60[93B7]
L9325	IND_0402	m60[93B7]
L9330	IND_0402	m60[93B7]
L9345	IND_0402	m60[93B7]
L9400	IND_SM	m60[94C6]
L9700	FILTER_4P_2012H	m60[97D7]
L9701	FILTER_4P_2012H	m60[97D7]
L9702	FILTER_4P_2012H	m60[97C7]
L9703	FILTER_4P_SM-LF	m60[97C7]
L9710	IND_SM-1	m60[97D5]
LED601	LED_2.0X1.25MM-SM	m60[6A8]
LED602	LED_2.0X1.25MM-SM	m60[6A7]
LED603	LED_2.0X1.25MM-SM	m60[6A6]
LED3800	LED_2.0X1.25MM-SM	m60[38B3]
LED6000	LED_4P4_SM	m60[60A6]
LED7900	LED_2.0X1.25MM-SM	m60[79A4]
LED8000	LED_2.0X1.25MM-SM	m60[80A4]
LED8100	LED_2.0X1.25MM-SM	m60[81A4]
PP5E1	PROBEPOINT_SM	m60[5B8]
PP5E2	PROBEPOINT_SM	m60[5B8]
PP6A0	PROBEPOINT_SM	m60[5A6]
PP6A1	PROBEPOINT_SM	m60[5A6]
PP6A2	PROBEPOINT_SM	m60[5A6]
PP6A3	PROBEPOINT_SM	m60[5A6]
PP6A4	PROBEPOINT_SM	m60[5A6]
PP6A5	PROBEPOINT_SM	m60[5A6]
PP6A6	PROBEPOINT_SM	m60[5A6]
PP6A7	PROBEPOINT_SM	m60[5A6]
PP6A8	PROBEPOINT_SM	m60[5A6]
PP6A9	PROBEPOINT_SM	m60[5A6]
PP6B0	PROBEPOINT_SM	m60[5A6]
PP6B1	PROBEPOINT_SM	m60[5A6]
PP6B2	PROBEPOINT_SM	m60[5A6]
PP6B3	PROBEPOINT_SM	m60[5A6]
PP6B4	PROBEPOINT_SM	m60[5A6]
PP6B5	PROBEPOINT_SM	m60[5A6]
PP6B6	PROBEPOINT_SM	m60[5A6]
PP6B7	PROBEPOINT_SM	m60[5A6]
PP6B8	PROBEPOINT_SM	m60[5A6]
PP6B9	PROBEPOINT_SM	m60[5A6]
PP6C0	PROBEPOINT_SM	m60[5A6]
PP6C1	PROBEPOINT_SM	m60[5A6]
PP6C2	PROBEPOINT_SM	m60[5A6]
PP6C3	PROBEPOINT_SM	m60[5A6]
PP6C4	PROBEPOINT_SM	m60[5C8]
PP6C5	PROBEPOINT_SM	m60[5C8]
PP6C6	PROBEPOINT_SM	m60[5C8]
PP6C7	PROBEPOINT_SM	m60[5C8]
PP6C8	PROBEPOINT_SM	m60[5C8]
PP6D0	PROBEPOINT_SM	m60[5C8]
PP6D1	PROBEPOINT_SM	m60[5C8]
PP6D2	PROBEPOINT_SM	m60[5B8]
PP6D3	PROBEPOINT_SM	m60[5B8]
PP6D4	PROBEPOINT_SM	m60[5B8]
PP6D5	PROBEPOINT_SM	m60[5B8]
PP6D6	PROBEPOINT_SM	m60[5B8]
PP6D7	PROBEPOINT_SM	m60[5B8]
PP6D8	PROBEPOINT_SM	m60[5B8]
PP6D9	PROBEPOINT_SM	m60[5B8]
PP6E0	PROBEPOINT_SM	m60[5B8]
PP6E1	PROBEPOINT_SM	m60[5B6]
PP600	PROBEPOINT_SM	m60[5D8]
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PP619	PROBEPOINT_SM	m60[5D8]
PP620	PROBEPOINT_SM	m60[5D8]
PP621	PROBEPOINT_SM	m60[5C8]
PP622	PROBEPOINT_SM	m60[5C8]
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PP624	PROBEPOINT_SM	m60[5C8]
PP625	PROBEPOINT_SM	m60[5C8]
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PP628	PROBEPOINT_SM	m60[5C8]
PP629	PROBEPOINT_SM	m60[5C8]
PP630	PROBEPOINT_SM	m60[5C8]
PP631	PROBEPOINT_SM	m60[5D6]
PP632	PROBEPOINT_SM	m60[5D6]
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PP653	PROBEPOINT_SM	m60[5C6]
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PP695	PROBEPOINT_SM	m60[5B6]
PP696	PROBEPOINT_SM	m60[5B6]
PP697	PROBEPOINT_SM	m60[5B6]
PP698	PROBEPOINT_SM	m60[5B6]
PP699	PROBEPOINT_SM	m60[5B6]
PP700	TP_SM-TP50-TOP	m60[5D3]
PP701	TP_SM-TP50-TOP	m60[5D3]
PP702	TP_SM-TP50-TOP	m60[5D3]
PP1200	TP_SM-TP50-TOP	m60[5D3]
PP1201	TP_SM-TP50-TOP	m60[5D3]
PP1202	TP_SM-TP50-TOP	m60[5D3]
PP2800	TP_SM-TP50-TOP	m60[5C3]
PP2801	TP_SM-TP50-TOP	m60[5C3]
PP2802	TP_SM-TP50-TOP	m60[5C3]
PP4100	PROBEPOINT_SM	m60[5D4]
PP4101	PROBEPOINT_SM	m60[5D4]
PP8400	PROBEPOINT_SM	m60[5C5]
PP8401	PROBEPOINT_SM	m60[5C5]
PP8700	PROBEPOINT_SM	m60[5D5]
PP8701	PROBEPOINT_SM	m60[5D5]
PP8702	PROBEPOINT_SM	m60[5D5]
PP8703	PROBEPOINT_SM	m60[5D5]
PP8704	PROBEPOINT_SM	m60[5D5]
PP8705	PROBEPOINT_SM	m60[5D5]
PP8706	PROBEPOINT_SM	m60[5D5]
PP8707	PROBEPOINT_SM	m60[5D5]
PP8708	PROBEPOINT_SM	m60[5D5]
PP8709	PROBEPOINT_SM	m60[5D5]
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PP8711	PROBEPOINT_SM	m60[5D5]
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PP8715	PROBEPOINT_SM	m60[5D5]
PP8716	PROBEPOINT_SM	m60[5D5]
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PP8721	PROBEPOINT_SM	m60[5D5]
PP8722	PROBEPOINT_SM	m60[5D5]
PP8723	PROBEPOINT_SM	m60[5C5]
PP8724	PROBEPOINT_SM	m60[5C5]
PP8725	PROBEPOINT_SM	m60[5C5]
PP8726	PROBEPOINT_SM	m60[5C5]
PP8727	PROBEPOINT_SM	m60[5C5]
PP8728	PROBEPOINT_SM	m60[5C5]
PP8729	PROBEPOINT_SM	m60[5C5]
PP8730	PROBEPOINT_SM	m60[5C5]
PP8731	PROBEPOINT_SM	m60[5C5]
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PP8735	PROBEPOINT_SM	m60[5C5]
PP8736	PROBEPOINT_SM	m60[5C5]
PP8900	PROBEPOINT_SM	m60[5B5]
PP8901	PROBEPOINT_SM	m60[5B5]
PP8902	PROBEPOINT_SM	m60[5B5]
PP8903	PROBEPOINT_SM	m60[5B5]
PP8904	PROBEPOINT_SM	m60[5B5]
PP8905	PROBEPOINT_SM	m60[5B5]
PP8906	PROBEPOINT_SM	m60[5B5]
PP8907	PROBEPOINT_SM	m60[5B5]
PP8908	PROBEPOINT_SM	m60[5B5]
PP8909	PROBEPOINT_SM	m60[5B5]
PP8910	PROBEPOINT_SM	m60[5B5]
PP8911	PROBEPOINT_SM	m60[5B5]
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PP8922	PROBEPOINT_SM	m60[5A5]
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PP8924	PROBEPOINT_SM	m60[5A5]
PP8925	PROBEPOINT_SM	m60[5A5]
PP8926	PROBEPOINT_SM	m60[5A5]
PP8927	PROBEPOINT_SM	m60[5A5]
PP8928	PROBEPOINT_SM	m60[5A5]
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PP8930	PROBEPOINT_SM	m60[5A5]
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PP8932	PROBEPOINT_SM	m60[5A5]
PP8933	PROBEPOINT_SM	m60[5A5]
PP8934	PROBEPOINT_SM	m60[5A5]
PP8935	PROBEPOINT_SM	m60[5A5]
PP8936	PROBEPOINT_SM	m60[5A5]
PP9000	PROBEPOINT_SM	m60[5B4]
PP9001	PROBEPOINT_SM	m60[5B4]
PP9002	PROBEPOINT_SM	m60[5B4]
PP9003	PROBEPOINT_SM	m60[5B4]
PP9004	PROBEPOINT_SM	m60[5B4]
PP9005	PROBEPOINT_SM	m60[5B4]
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PP9007	PROBEPOINT_SM	m60[5B4]
PP9008	PROBEPOINT_SM	m60[5B4]
PP9009	PROBEPOINT_SM	m60[5B4]
PP9010	PROBEPOINT_SM	m60[5B4]
PP9011	PROBEPOINT_SM	m60[5B4]
PP9012	PROBEPOINT_SM	m60[5B4]
PP9013	PROBEPOINT_SM	m60[5B4]
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PP9015	PROBEPOINT_SM	m60[5A4]
PP9016	PROBEPOINT_SM	m60[5A4]
PP9020	PROBEPOINT_SM	m60[5A4]
PP9021	PROBEPOINT_SM	m60[5A4]
PP9022	PROBEPOINT_SM	m60[5A4]
PP9023	PROBEPOINT_SM	m60[5A4]
PP9024	PROBEPOINT_SM	m60[5A4]
PP9025	PROBEPOINT_SM	m60[5A4]
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PP9027	PROBEPOINT_SM	m60[5A4]
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PP9029	PROBEPOINT_SM	m60[5A4]
PP9030	PROBEPOINT_SM	m60[5A4]
PP9031	PROBEPOINT_SM	m60[5A4]
PP9032	PROBEPOINT_SM	m60[5A4]
PP9033	PROBEPOINT_SM	m60[5A4]
PP9034	PROBEPOINT_SM	m60[5A4]
PP9035	PROBEPOINT_SM	m60[5A4]
PP9036	PROBEPOINT_SM	m60[5A4]
Q4201	TRA_PBSS5540Z_SOT223	m60[42C6]
Q5700	TRA_IRLR7807Z_TO-252 AA	m60[57D4]
Q5701	TRA_IRLR7807Z_TO-252 AA	m60[57C4]
Q5702	TRA_2N7002_SOT23-LF	m60[57B7]
Q5703	TRA_IRF1902PBF_SO-8	m60[57D7]
Q5901	TRA_2N7002DW_SOT-363	m60[59C7 59C7]
Q5910	TRA_SINGLE_MOSFET_PC HN_SOT-23	m60[59A4]
Q5911	TRA_2N7002_SOT23-LF	m60[59A4]
Q5950	TRA_2N7002_SOT23-LF	m60[60B7]
Q5951	TRA_2N7002_SOT23-LF	m60[60B7]
Q5952	TRA_2N3906_SOT23-LF	m60[60B6]
Q6500	TRA_NTHS5443T1_1206A -03-LF	m60[65D4]
Q6502	TRA_2N7002_SOT23-LF	m60[65D6]
Q6503	TRA_NTHS5443T1_1206A -03-LF	m60[65B4]
Q6505	TRA_2N7002_SOT23-LF	m60[65B6]
Q6600	TRA_NTHS5443T1_1206A -03-LF	m60[66D4]
Q6602	TRA_2N7002_SOT23-LF	m60[66C5]
Q7200	TRA_2N7002DW_SOT-363	m60[72B6 72B7]
Q7400	TRA_2N7002DW_SOT-363	m60[74B3 74B3]
Q7401	TRA_2N7002_SOT23-LF	m60[74D5]
Q7402	TRA_2N7002DW_SOT-363	m60[74B2 74B2]
Q7500	TRA_HAT2168H_LFPAK	m60[75D3]
Q7501	TRA_HAT2165H_LFPAK	m60[75D3]
Q7502	TRA_HAT2168H_LFPAK	m60[75C3]
Q7503	TRA_HAT2165H_LFPAK	m60[75B3]
Q7504	TRA_HAT2165H_LFPAK	m60[75D3]
Q7505	TRA_HAT2165H_LFPAK	m60[75B3]
Q7570	TRA_HAT2168H_LFPAK	m60[75D2]
Q7572	TRA_HAT2168H_LFPAK	m60[75C3]
Q7701	TRA_SI3446DV_TSOP-LF	m60[77B2]
Q7703	TRA_2N7002DW_SOT-363	m60[77C7 77D7]
Q7799	TRA_2N7002_SOT23-LF	m60[77B6]
Q7800	TRA_NTD60N02R_CASE36 9-LF	m60[78C4]
Q7801	TRA_NTD60N02R_CASE36 9-LF	m60[78B5]
Q7802	TRA_2N7002_SOT23-LF	m60[78B8]
Q7900	TRA_NTD60N02R_CASE36 9-LF	m60[79D4]
Q7901	TRA_NTD60N02R_CASE36 9-LF	m60[79C4]
Q7902	TRA_2N7002_SOT23-LF	m60[79C7]
Q8000	TRA_NTD60N02R_CASE36 9-LF	m60[80D4]
Q8001	TRA_NTD60N02R_CASE36 9-LF	m60[80C4]
Q8003	TRA_2N7002_SOT23-LF	m60[80C7]
Q8102	TRA_NTD60N02R_CASE36 9-LF	m60[81D4]
Q8103	TRA_NTD60N02R_CASE36 9-LF	m60[81C4]
Q8104	TRA_2N7002_SOT23-LF	m60[81C7]
Q8200	TRA_IRLR7807Z_TO-252 AA	m60[82D4]
Q8201	TRA_IRLR7807Z_TO-252 AA	m60[82C4]
Q8202	TRA_2N7002_SOT23-LF	m60[82B7]
Q8203	TRA_IRF1902PBF_SO-8	m60[82D7]

Q8300	TRA_IRF7413_SO-8	m60[83D2]
Q8301	TRA_IRF7413_SO-8	m60[83C2]
Q8302	TRA_2N7002_SOT23-LF	m60[83C3]
Q8303	TRA_2N7002_SOT23-LF	m60[83D3]
Q8310	TRA_SI3446DV_TSOP-LF	m60[83D8]
Q8311	TRA_2N7002_SOT23-LF	m60[83C7]
Q8312	TRA_SI3446DV_TSOP-LF	m60[83C5]
Q8313	TRA_IRF7410_SO-8	m60[83B6]
Q8315	TRA_2N7002_SOT23-LF	m60[83B5]
Q8316	TRA_2N7002_SOT23-LF	m60[83C5]
Q8317	TRA_SI3446DV_TSOP-LF	m60[83D5]
Q8318	TRA_DUAL_2N7002A_SOT 563	m60[83A8 83A7]
Q8319	TRA_SI3446DV_TSOP-LF	m60[83C8]
Q8320	TRA_2N7002_SOT23-LF	m60[83B7]
Q8520	TRA_HAT2168H_LFPAK	m60[85D4]
Q8521	TRA_HAT2165H_LFPAK	m60[85C4]
Q8522	TRA_HAT2165H_LFPAK	m60[85C5]
Q9400	TRA_SI3443DV_TSOP-LF	m60[94C7]
Q9401	TRA_2N7002_SOT23-LF	m60[94C8]
Q9711	TRA_2N7002DW_SOT-363	m60[97D2 97C2]
R75A0	RES_402	m60[75C7]
R85A0	RES_402	m60[85D1]
R600	RES_402	m60[6A7]
R602	RES_402	m60[6A8]
R603	RES_402	m60[6B1]
R605	RES_603	m60[6A6]
R611	RES_402	m60[6B7]
R612	RES_402	m60[6B7]
R614	RES_402	m60[6B7]
R615	RES_402	m60[6B7]
R616	RES_402	m60[6A7]
R617	RES_402	m60[6A7]
R618	RES_402	m60[6C7]
R619	RES_402	m60[6B7]
R0701	RES_402	m60[7C6]
R0702	RES_402	m60[7D6]
R0703	RES_402	m60[7C5]
R0704	RES_402	m60[7C5]
R0705	RES_402	m60[7B4]
R0706	RES_402	m60[7B5]
R0707	RES_402	m60[7A4]
R0712	RES_402	m60[7A3]
R0716	RES_402	m60[7B1]
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R0718	RES_402	m60[7B1]
R0719	RES_402	m60[7B1]
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R0721	RES_402	m60[7B7]
R0722	RES_402	m60[7A7]
R0730	RES_402	m60[7A4]
R0802	RES_402	m60[8B7]
R0803	RES_402	m60[8A7]
R1000	RES_402	m60[10D3]
R1001	RES_402	m60[10D3]
R1002	RES_402	m60[10C6]
R1005	RES_402	m60[10D3]
R1017	RES_402	m60[10C6]
R1018	RES_402	m60[10B6]
R1019	RES_402	m60[10B6]
R1100	RES_402	m60[11B5]
R1101	RES_402	m60[11C5]
R1102	RES_402	m60[11B4]
R1103	RES_402	m60[11C5]
R1104	RES_402	m60[11B5]
R1106	RES_402	m60[11A3]
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R1211	RES_402	m60[12C3]
R1220	RES_402	m60[12B7]
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R1225	RES_402	m60[12B7]
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R1231	RES_402	m60[12A7]
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R1236	RES_402	m60[12A7]
R1310	RES_402	m60[13D3]
R1410	RES_402	m60[14C3]
R1411	RES_402	m60[14C3]
R1420	RES_402	m60[14B6]
R1430	RES_402	m60[14B6]
R1440	RES_402	m60[14D6]
R1441	RES_402	m60[14D6]
R1975	RES_402	m60[19A4]
R1980	RES_402	m60[19B7]
R1981	RES_402	m60[19B7]
R1982	RES_402	m60[19B8]
R1983	RES_402	m60[19B8]
R2058	RES_402	m60[20B4]
R2059	RES_402	m60[20B4]
R2060	RES_402	m60[20A4]
R2075	RES_402	m60[20C7]
R2077	RES_402	m60[20B7]
R2079	RES_402	m60[20B7]
R2085	RES_402	m60[20C4]
R2100	RES_402	m60[21C3]
R2101	RES_402	m60[21C4]
R2105	RES_402	m60[21D6]
R2107	RES_402	m60[21C2]
R2108	RES_402	m60[21C2]
R2110	RES_402	m60[21C2]
R2194	RES_402	m60[21D4]
R2195	RES_402	m60[21C6]
R2196	RES_402	m60[21C6]
R2197	RES_402	m60[21C6]
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R2200	RES_402	m60[22D7]
R2203	RES_402	m60[22C2]
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R2255	RES_402	m60[22D7]
R2298	RES_402	m60[22B5]
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R2390	RES_402	m60[23B3]
R2395	RES_402	m60[23D7]
R2396	RES_402	m60[23D6]
R2397	RES_402	m60[23D6]
R2398	RES_402	m60[23D8]
R2399	RES_402	m60[23C1]
R2500	RES_603	m60[25A8]
R2501	RES_402	m60[25C8]
R2502	RES_402	m60[25D8]
R2600	RES_402	m60[26C7]
R2606	RES_402	m60[26C7]
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R2800	RES_402	m60[28C7]
R2801	RES_402	m60[28C7]
R2900	RES_402	m60[29A3]
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R3009	RES_402	m60[30D4]
R3011	RES_402	m60[30C4]
R3025	RES_402	m60[30C4]
R3035	RES_402	m60[30B4]
R3100	RES_402	m60[31C5]
R3101	RES_402	m60[31C5]
R3300	RES_402	m60[33B6]
R3301	RES_402	m60[33B7]
R3302	RES_402	m60[33D4]
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R7754	RES_402	m60[77B5]
R7757	RES_402	m60[77C5]
R7793	RES_402	m60[77D7]
R7794	RES_402	m60[77C7]
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R7800	RES_402	m60[78C7]
R7801	RES_402	m60[78B7]
R7802	RES_402	m60[78B3]
R7803	RES_402	m60[78B3]
R7804	RES_1206	m60[78B4]
R7805	RES_402	m60[78B6]
R7812	RES_402	m60[78B3]
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R7892	RES_402	m60[78B7]
R7901	RES_402	m60[79C3]
R7902	RES_1206	m60[79C3]
R7903	RES_402	m60[79C3]
R7904	RES_402	m60[79C5]
R7905	RES_402	m60[79D7]
R7906	RES_402	m60[79A4]
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R7911	RES_402	m60[83B3]
R7912	RES_402	m60[83A3]
R7913	RES_402	m60[79A2]
R7914	RES_402	m60[79A3]
R7915	RES_402	m60[79A3]
R7940	RES_402	m60[79D5]
R7991	RES_402	m60[79C7]
R7992	RES_402	m60[79C7]
R7999	RES_402	m60[79C3]
R8000	RES_402	m60[80B3]
R8001	RES_402	m60[80C7]
R8002	RES_1206	m60[80C3]
R8003	RES_402	m60[80C3]
R8004	RES_402	m60[80C5]
R8005	RES_402	m60[80D7]
R8007	RES_402	m60[80A4]
R8010	RES_402	m60[80B2]
R8011	RES_402	m60[80B3]
R8012	RES_402	m60[80B3]
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R8092	RES_402	m60[80C7]
R8099	RES_402	m60[80C3]
R8101	RES_402	m60[81B3]
R8102	RES_1206	m60[81C3]
R8103	RES_402	m60[81C3]
R8104	RES_402	m60[81C5]
R8105	RES_402	m60[81D7]
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R8191	RES_402	m60[81C7]
R8192	RES_402	m60[81C7]
R8198	RES_402	m60[81A5]
R8199	RES_402	m60[81A5]
R8201	RES_402	m60[82C2]
R8202	RES_1206	m60[82C3]
R8203	RES_402	m60[82C2]
R8204	RES_402	m60[82C5]
R8205	RES_402	m60[82D6]
R8220	RES_402	m60[82C7]
R8221	RES_402	m60[82C7]
R8222	RES_402	m60[82C7]
R8240	RES_402	m60[82D5]
R8292	RES_402	m60[82B6]
R8299	RES_402	m60[82C2]
R8300	RES_402	m60[83C3]
R8301	RES_402	m60[83D3]
R8302	RES_402	m60[83C3]
R8303	RES_402	m60[83D3]
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R8315	RES_603	m60[83A6]
R8318	RES_603	m60[83B7]
R8325	RES_603	m60[83D5]
R8495	RES_402	m60[84A2]
R8496	RES_402	m60[84A2]
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R8502	RES_402	m60[85D6]
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R8504	RES_402	m60[85D7]
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R8596	RES_402	m60[85D3]
R8597	THERMISTER_0603-LF	m60[85D3]
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R8599	RES_1206	m60[85C4]
R8630	RES_603	m60[86C7]
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R8722	RES_402	m60[87B4]
R8723	RES_402	m60[87A4]
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R8732	RES_402	m60[87A3]
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R8804	RES_402	m60[88D4]
R8805	RES_402	m60[88C4]
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R8807	RES_402	m60[88C4]
R8808	RES_402	m60[88C4]
R8809	RES_402	m60[88C4]
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R8981	RES_402	m60[89C4]
R8982	RES_402	m60[89C4]
R8983	RES_402	m60[89C4]
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R8997	RES_402	m60[89B4]
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R9032	RES_402	m60[90C7]
R9033	RES_402	m60[90C7]
R9040	RES_402	m60[90B8]
R9041	RES_402	m60[90A8]
R9042	RES_402	m60[90B7]
R9043	RES_402	m60[90B7]
R9044	RES_402	m60[90B7]
R9045	RES_402	m60[90B7]
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R9048	RES_402	m60[90A7]
R9049	RES_402	m60[90A7]
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R9082	RES_402	m60[90C4]
R9083	RES_402	m60[90C4]
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R9097	RES_402	m60[90B4]
R9098	RES_402	m60[90A4]
R9099	RES_402	m60[90A4]
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R9191	RES_402	m60[91D2]
R9195	RES_402	m60[91A3]
R9202	RES_402	m60[92C6]
R9250	RES_402	m60[92C6]
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R9351	RES_402	m60[93A8]
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R9371	RES_402	m60[93D1]
R9372	RES_402	m60[93C1]
R9373	RES_402	m60[93C1]
R9390	RES_402	m60[93A1]
R9391	RES_402	m60[93A1]
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R9401	RES_402	m60[94C7]
R9410	RES_402	m60[94C6]
R9411	RES_402	m60[94C6]
R9450	RES_402	m60[94C2]
R9470	RES_402	m60[94B8]
R9472	RES_402	m60[94B3]
R9473	RES_402	m60[94B2]
R9474	RES_402	m60[94B2]
R9475	RES_402	m60[94B1]
R9490	RES_805	m60[94C6]
R9491	RES_805	m60[94D6]
R9499	RES_402	m60[94C8]
R9700	RES_402	m60[97D7]
R9701	RES_402	m60[97D8]
R9702	RES_402	m60[97D7]
R9703	RES_402	m60[97D7]
R9704	RES_402	m60[97C7]
R9705	RES_402	m60[97C7]
R9706	RES_402	m60[97D8]
R9707	RES_402	m60[97C8]
R9708	RES_402	m60[97C7]
R9709	RES_402	m60[97C7]
R9710	RES_402	m60[97D2]
R9711	RES_402	m60[97D2]
R9712	RES_402	m60[97D2]
R9713	RES_402	m60[97C2]
R9714	RES_402	m60[97C2]
R9715	RES_402	m60[97C7]
R9716	RES_402	m60[97C8]
R9717	RES_402	m60[97C8]
R9720	RES_402	m60[97D1]
R9721	RES_402	m60[97D1]
R9722	RES_402	m60[97C2]
R9740	RES_402	m60[97A8]
R9741	RES_402	m60[97A8]
R9742	RES_402	m60[97A7]
R9750	RES_402	m60[97A3]
R9751	RES_402	m60[97A3]
RP2300	RPAK4P_SM-LF	m60[23D5]
RP3000	RPAK4P_SM-LF	m60[30B4 30C4 30D4 30D4]
RP3001	RPAK4P_SM-LF	m60[30C4 30A4 30A4 30D4]
RP3002	RPAK4P_SM-LF	m60[30A4 30A4 30A4 30D4]
RP3003	RPAK4P_SM-LF	m60[30C4 30C4 30C4 30D4]
RP3004	RPAK4P_SM-LF	m60[30C4 30C4 30D4]
RP3005	RPAK4P_SM-LF	m60[30B4 30A4 30A4 30D4]
RP3006	RPAK4P_SM-LF	m60[30B4 30B4 30A4 30D4]
RP3007	RPAK4P_SM-LF	m60[30C4 30C4 30C4 30C4]
RP3008	RPAK4P_SM-LF	m60[30C4 30C4 30C4 30C4]
RP3009	RPAK4P_SM-LF	m60[30B4 30B4 30C4 30C4]
RP3010	RPAK4P_SM-LF	m60[30B4 30B4 30B4 30B4]
RP3011	RPAK4P_SM-LF	m60[30B4 30A4 30B4 30B4]
RP7200	RPAK4P_SM-LF	m60[72A4]
SDF3800	PCB_STANDOFF	m60[38B2]
SDF3801	PCB_STANDOFF	m60[38A2]
SDF4700	PCB_STANDOFF	m60[47A2]
SDF4701	PCB_STANDOFF	m60[47A2]
SDF5300	PCB_STANDOFF	m60[53A5]
SDF5301	PCB_STANDOFF	m60[53A5]
SDF9400	PCB_STANDOFF	m60[94B6]
SDF9401	PCB_STANDOFF	m60[94A6]
SW2600	SWI_TACT_4SM_EVQPH_S M-LF	m60[26C6]
SW5900	SWI_TACT_4SM_EVQPH_S M-LF	m60[59D8]
SW5901	SWI_TACT_4SM_EVQPH_S M-LF	m60[59B8]
U600	74LC125_TSSOP	m60[6A7 6B7 6B7 6C7]
U1000	ADT7461_MSOP	m60[10D5]
U1200	NB_945GM_BGA	m60[12D5]
U1200	NB_945GM_BGA	m60[13D4]
U1200	NB_945GM_BGA	m60[14D5]
U1200	NB_945GM_BGA	m60[15D3 15D7]
U1200	NB_945GM_BGA	m60[16D2 16C8]
U1200	NB_945GM_BGA	m60[17D5]
U1200	NB_945GM_BGA	m60[18D4 18D7]
U2100	SB_ICH7M_BGA	m60[21D6]
U2100	SB_ICH7M_BGA	m60[22B7 22D3]
U2100	SB_ICH7M_BGA	m60[23D4]
U2100	SB_ICH7M_BGA	m60[24D4 24D7]
U2601	MC74VHC1G08_SOT23-5- LF	m60[26D5]
U2603	SN74LVC1G04_SOT23-5	m60[26A7]
U2698	MC74VHC1G08_SOT23-5- LF	m60[26C4]
U2699	MAX6816_SOT143	m60[26C5]
U3100	LREG_BD3533FVM_MSOP-8	m60[31C5]
U3301	CLK_GEN_CY284455_QFN	m60[33C5]
U4101	88E8053_QFN	m60[41D5]
U4102	EEPROM_M24C08_SO8	m60[41A3]
U4400	FW32306_TQFP	m60[44D5]
U4700	SWI_TPS2043_SOI	m60[47C8]
U5700	ISL6549_QFN	m60[57D6]
U5800	SMC_H8S2116_BGA	m60[58A8 58C3 58C6 58D6]
U5900	VDET_RN5VD_SOT23-5	m60[59D8]
U5940	VREF_REF3133_SOT23-3	m60[59A4]
U5999	COMPARATOR_LM393_SOI -1-LF	m60[59A8 59A8]
U6100	MAX6695_UMAX	m60[61C4]
U6301	FLASH_SST25VF016B_SOI	m60[63D3]
U6700	TPM_TSSOP	m60[67C5]
U6800	AUDIO_STAC92204XR_LQFP	m60[68D5]
U7200	MAX9714_QFN-LF	m60[72C5]
U7400	MAX9890_UCSP1	m60[74C4]
U7500	ISL6262_QFN	m60[75C6]
U7501	ZXCT1010_SOT23-5	m60[76D7]
U7710	MC74VHC1G08_SOT23-5- LF	m60[77C7]
U7711	MC74VHC1G08_SOT23-5- LF	m60[77B7]
U7712	MC74VHC1G08_SOT23-5- LF	m60[77B7]
U7750	SN200505068_SOP	m60[77C4]
U7800	ISL6549_QFN	m60[78C7]
U7900	ISL6549_QFN	m60[79D6]
U7901	COMPARATOR_LM339A_SO I-LF	m60[79A5]
U7901	COMPARATOR_LM339A_SO I-LF	m60[80A4]
U7901	COMPARATOR_LM339A_SO I-LF	m60[81A5]
U7910	COMPARATOR_LM339A_SO I-LF	m60[79A3]
U7910	COMPARATOR_LM339A_SO I-LF	m60[80B2]
U7910	COMPARATOR_LM339A_SO I-LF	m60[81B3]
U7910	COMPARATOR_LM339A_SO I-LF	m60[83B3]
U8000	ISL6549_QFN	m60[80D6]
U8100	ISL6549_QFN	m60[81D6]
U8200	ISL6549_QFN	m60[82D6]
U8400	ATI_M56P_BGA	m60[84C8 84D4]
U8400	ATI_M56P_BGA	m60[86D4]
U8400	ATI_M56P_BGA	m60[87D2 87D6]
U8400	ATI_M56P_BGA	m60[91D4]
U8400	ATI_M56P_BGA	m60[93C4]
U8500	ISL6269_QFN	m60[85D6]
U8595	OPAMP_LMV2011_SOT23-5	m60[85D2]
U8900	SGRAM_16MX32_GDDR3_1 36H_FBGA	m60[89D6 89B6]
U8950	SGRAM_16MX32_GDDR3_1 36H_FBGA	m60[89D3 89B3]
U9000	SGRAM_16MX32_GDDR3_1 36_FBGA	m60[90D6 90B6]
U9050	SGRAM_16MX32_GDDR3_1 36_FBGA	m60[90D3 90B3]
U9470	MC74VHC1G08_SOT23-5- LF	m60[94B2]
U9700	74LC125_TSSOP	m60[6A8 6A6]
U9700	74LC125_TSSOP	m60[97A4 97A4]
XC7200	MTGHOLE	m60[72B3]
XW602	SHORT_SM	m60[6C2]
XW605	SHORT_SM	m60[6A5]
XW5800	SHORT_SM	m60[58B3]
XW5900	SHORT_SM	m60[59B1]
XW7201	SHORT_SM	m60[72B2]
XW7300	SHORT_SM	m60[73C3]
XW7307	SHORT_SM	m60[73C6]
XW7400	SHORT_SM	m60[74A4]
XW7429	SHORT_SM	m60[74C2]
XW7441	SHORT_SM	m60[74D2]
XW7500	SHORT_SM	m60[75A6]
XW7501	SHORT_SM	m60[75B2]
XW7502	SHORT_SM	m60[75B1]
XW7503	SHORT_SM	m60[75D2]
XW7504	SHORT_SM	m60[75D1]
XW7598	SHORT_SM	m60[76D7]
XW7750	SHORT_SM	m60[77A4]
XW8500	SHORT_SM	m60[85C6]
Y2600	CRYSTAL_4PIN_SM-LF	m60[26D8]
Y3301	CRYSTAL_5X3.2-SM	m60[33C7]
Y4101	CRYSTAL_SM-3-LF	m60[41B5]
Y4400	CRYSTAL_HC49-USMD	m60[44D2]
Y5800	CRYSTAL_SM-3	m60[59B8]
Y6700	CRYSTAL_4PIN_SM-LF	m60[59B7]
ZH500	HOLE_VIA	m60[5C1]
ZH501	HOLE_VIA	m60[5C1]
ZH502	HOLE_VIA	m60[5C1]
ZH503	HOLE_VIA	m60[5C1]
ZH504	HOLE_VIA	m60[5B1]
ZH505	HOLE_VIA	m60[5B1]
ZH506	HOLE_VIA	m60[5B1]
ZH507	HOLE_VIA	m60[5B1]
ZH508	HOLE_VIA	m60[5B1]
ZH509	HOLE_VIA	m60[5B1]
ZH510	HOLE_VIA	m60[5C1]
ZH511	HOLE_VIA	m60[5C1]
ZH512	HOLE_VIA	m60[5C1]
ZH513	HOLE_VIA	m60[5C1]
ZH514	HOLE_VIA	m60[5B1]
ZH515	HOLE_VIA	m60[5B1]
ZH516	HOLE_VIA	m60[5B1]
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ZH520	HOLE_VIA	m60[5C1]
ZH521	HOLE_VIA	m60[5C1]
ZH522	HOLE_VIA	m60[5C1]
ZH523	HOLE_VIA	m60[5C1]
ZH524	HOLE_VIA	m60[5B1]
ZH525	HOLE_VIA	m60[5B1]

ZH526	HOLE_VIA	m60[5B1]
ZH527	HOLE_VIA	m60[5B1]
ZH528	HOLE_VIA	m60[5B1]
ZH529	HOLE_VIA	m60[5B1]
ZH601	MTGHOLE	m60[6A3]
ZH602	MTGHOLE	m60[6A3]
ZH603	MTGHOLE	m60[6A3]
ZH606	MTGHOLE	m60[6A1]
ZH607	MTGHOLE	m60[9D4]
ZH608	MTGHOLE	m60[9D3]
ZH609	MTGHOLE	m60[9D2]
ZH610	MTGHOLE	m60[9D2]