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.

M42B MLB NO_LDO SCHEMATIC

3/22/2007

REV	ZONE	ECN	DESCRIPTION OF CHANGE	CK APPD DATE	ENG APPD DATE
07		355269	ENGINEERING RELEASED	12/10/04	?

Schematic / PCB #'s

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
051-7374	1	SCHEM,M42B,MLB NO_LDO	SCH	
820-1889	1	PCBF,M42,MLB NO_LDO	PCB	

EE DRIS:

RX-RAYMOND XU
DK-DINESH KUMAR
RC-RAY CHANG
MK-MARC KLINGELHOFER
LT-LAWRENCE TAN
LD-LINDA DUNN

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

METRIC

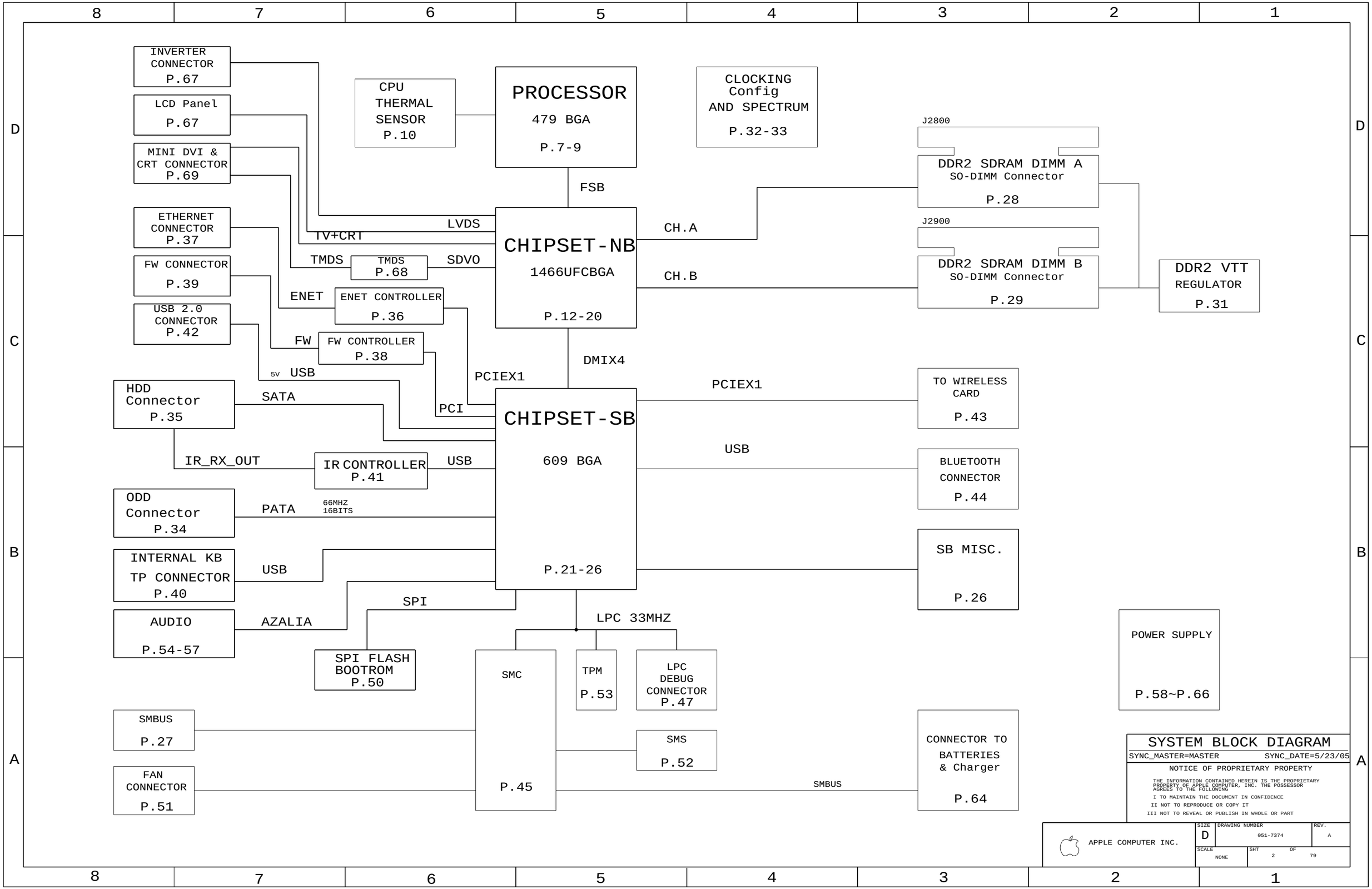
DRAFTER / DESIGN CK /
ENG APPD / MFG APPD /
QA APPD / DESIGNER /
RELEASE / SCALE NONE
MATERIAL/FINISH NOTED AS APPLICABLE
SIZE D

Apple Computer Inc.

TITLE: SCHEM,MLB NO_LDO,M42B

DRAWING NUMBER 051-7374 REV. A

SHT 1 OF 79



SYSTEM BLOCK DIAGRAM

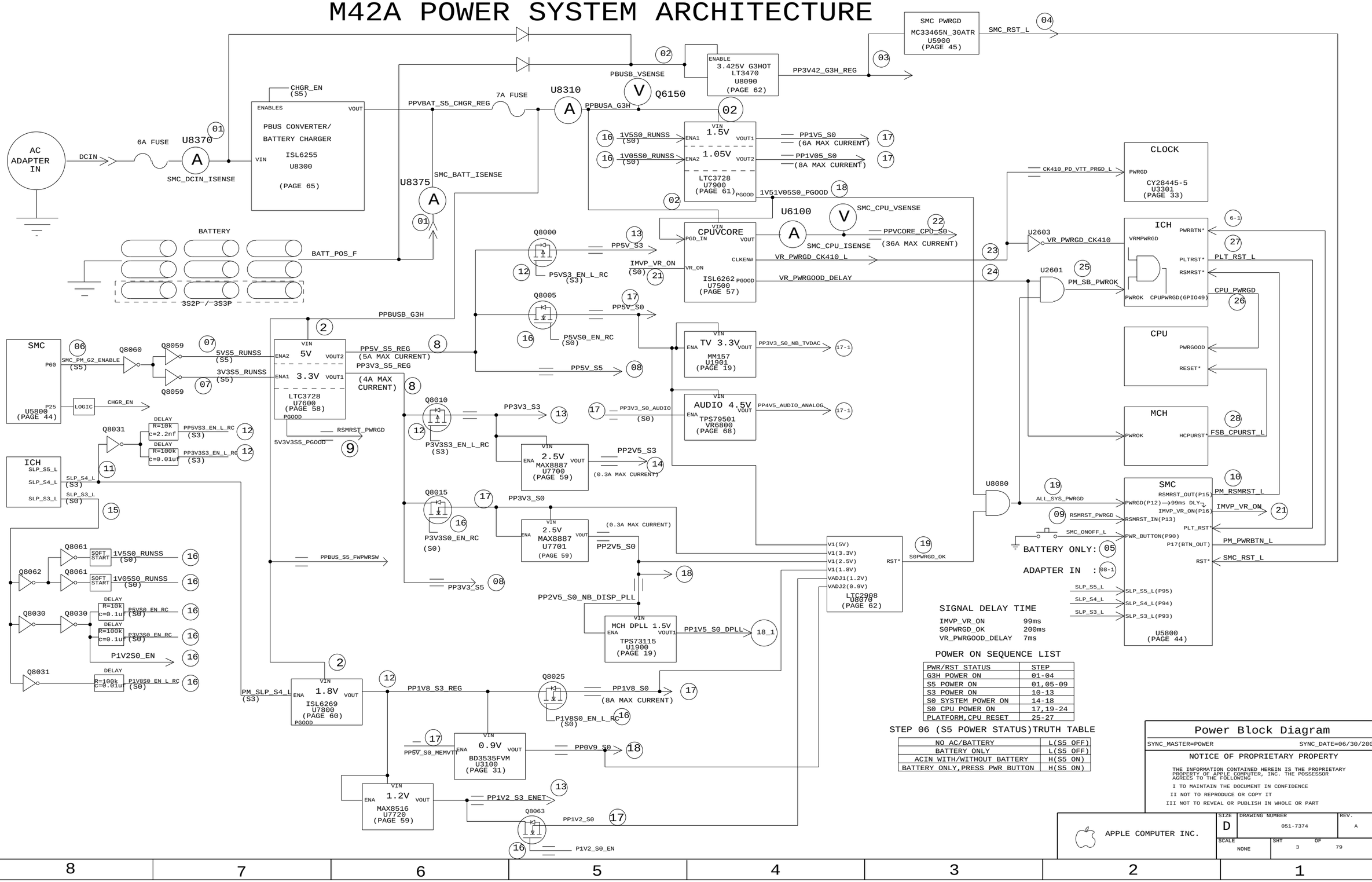
SYNC_MASTER=MASTER SYNC_DATE=5/23/05

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A

SCALE	SHT	OF
NONE	2	79

M42A POWER SYSTEM ARCHITECTURE



SIGNAL DELAY TIME

IMVP_VR_ON	99ms
S0PWRGD_OK	200ms
VR_PWRGOOD_DELAY	7ms

POWER ON SEQUENCE LIST

PWR/RST STATUS	STEP
G3H POWER ON	01-04
S5 POWER ON	01,05-09
S3 POWER ON	10-13
S0 SYSTEM POWER ON	14-18
S0 CPU POWER ON	17,19-24
PLATFORM,CPU RESET	25-27

STEP 06 (S5 POWER STATUS)TRUTH TABLE

NO AC/BATTERY	L(S5 OFF)
BATTERY ONLY	L(S5 OFF)
ACIN WITH/WITHOUT BATTERY	H(S5 ON)
BATTERY ONLY,PRESS PWR BUTTON	H(S5 ON)

Power Block Diagram

SYNC_MASTER=POWER SYNC_DATE=06/30/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 3 OF 79	

Page Notes

Power aliases required by this page:
(NONE)

Signal aliases required by this page:
(NONE)

BOM options provided by this page:
(NONE)

BOM OPTION

BOMOPTION	M42A GOOD ST MICRO 630-7795 EVT	M42A BETTER ST MICRO 630-7796 EVT	M42A BEST KIONIX 630-7799 EVT	M42A GOOD KIONIX 630-7798 EVT	M42A BETTER KIONIX 630-7736 EVT	M42A BEST ST MICRO 630-7797 EVT
1V51V05S0_CONT						
1V51V05S0_SKIP	V	V	V	V	V	V
5V3V3S3_CONT						
5V3V3S3_SKIP	V	V	V	V	V	V
ACCEL_KIONIX			V	V	V	
ACCEL_ST	V	V				V
INVERTER_BUF	V	V	V	V	V	V
INVERTER_UNBUF						
ITP						
LEMENU	V	V	V	V	V	V
MEMVTT_EN_PU	V	V	V	V	V	V
NBCFG_DMI_REVERSE						
NBCFG_DMI_X2						
NBCFG_DYN_ODT_DISABLE						
NBCFG_PEG_REVERSE						
NBCFG_SDVO_AND_PCIE						
NBCFG_VCC_1V5						
NO_REBOOT_MODE						
USB_C_OC_PU	V	V	V	V	V	V
USB_D_OC_PU	V	V	V	V	V	V
USB_E_OC_PU	V	V	V	V	V	V
GOOD	V			V		
BETTER		V			V	
BEST			V			V
M42A_PGM	V	V	V	V	V	V
ONEWIRE_PULLUP	V	V	V	V	V	V
ONEWIRE_PULLUP_OLD						
ONEWIRE_PU_PROT	V	V	V	V	V	V
ONEWIRE_PU_ACOK						
ONEWIRE_PWRCTL	V	V	V	V	V	V
ONEWIRE_ALWAYSON						
3V3_IND_2MM8	V	V	V	V	V	V
3V3_IND_3MM						
NORMAL	V	V		V	V	
FANCY			V			V
STANDOFF	V	V	V	V	V	V
FET_FDN6296	V	V	V	V	V	V
FET_STL8NH3LL						
GOOD-ST	V					
BETTER-ST		V				
BEST-KIONIX			V			
GOOD-KIONIX				V		
BETTER-KIONIX					V	
BEST-ST						V
TPM						
PVT-DIMM						
POST-RAMP-DIMM35	V	V	V	V	V	V
M42						
M42A	V	V	V	V	V	V

BOARD STACK-UP AND CONSTRUCTION

Top		SIGNAL
2		GROUND
3		SIGNAL(High Speed)
4		SIGNAL(High Speed)
5		GROUND
6		POWER
7		POWER
8		GROUND
9		SIGNAL(High Speed)
10		SIGNAL(High Speed)
11		GROUND
BOTTOM		SIGNAL

MLB STACKUP

LAYER	THICKNESS (MM)	TRACE WIDTH (MM)
CONFORMAL_COAT	0.018	
L1 SIGNAL(TOP)	0.047	0.1
L1-L2	0.07	
L2 GROUND	0.014	---
L2-L3	0.076	
L3 SIGNAL	0.014	0.079
L3-L4	0.156	
L4 SIGNAL	0.014	0.079
L4-L5	0.076	
L5 GND	0.014	---
L5-L6	0.07	
L6 POWER	0.031	---
L6-L7	0.076	
L7 POWER	0.031	---
L7-L8	0.07	
L8 GROUND	0.014	---
L8-L9	0.076	
L9 SIGNAL	0.014	0.1
L9-L10	0.156	
L10 SIGNAL	0.014	0.1
L10-L11	0.076	
L11 GROUND	0.014	0.1
L11-L12	0.07	
L12 SIGNAL(BOTTOM)	0.047	0.1
CONFORMAL_COAT	0.018	
TOTAL	1.276	---

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
337S3450	1	IC,MEROM,CPU L2 1.83GHZ,479 PGA	U0700	GOOD
337S3389	1	IC,MEROM,CPU 2.0GHZ,479 PGA	U0700	BETTER
337S3391	1	IC,MEROM,CPU 2.16GHZ,479 PGA	U0700	BEST

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
338S0268	1	IC,FW32306,1394A LINK,BGA,129P	U4400	LEMENU
338S0270	1	IC,88E8053,GIGABIT ENET XCVR,64P QFN, NO	U4101	LEMENU
359S0109	1	IC,SLG8LP436,CLOCK GEN,68PIN QFN	U3301	LEMENU

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
341S2131	1	IC, 16MBIT 8-PIN SPI SERIAL FLASH,SOIC8	U6301	M42A_PGM
341S1797	1	IC,EEPROM,SERIAL IIC,8KBIT,SO8	U4102	M42A_PGM
341S2133	1	IC,SMC,176P BGA,HS8/2116	U5800	M42A_PGM
341S1890	1	IC,PSOC+W/USB,56P,MLF,CY8C24794	U5100	M42A_PGM

341S2132 FOR M42B LOCKED BOOTROM

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
826-4393	1	LBL,P/N LABEL,PCB,28MMX6MM	EEE:YCT	CRITICAL	BEST-KIONIX
826-4393	1	LBL,P/N LABEL,PCB,28MMX6MM	EEE:YCS	CRITICAL	BETTER-KIONIX
826-4393	1	LBL,P/N LABEL,PCB,28MMX6MM	EEE:YCR	CRITICAL	GOOD-KIONIX

CONFIGURATION OPTIONS

SYNC_MASTER=SMC SYNC_DATE=07/18/2005

APPLE COMPUTER INC.

SIZE D | DRAWING NUMBER 051-7374 | REV. A

SCALE NONE | SHT 4 OF 79

Functional Test Points

Power Supply NO_TESTs

NO_TEST

I93		IMVP6_RBIAS	58A4 58B7
I94		IMVP6_COMP	58A4 58B7
I95		5VS5_RUNSS	59B4 63C7
I96		1V5S0_RUNSS	62B5 63B7
I101		1V8S3_COMP	61B6
I102		1V8S3_FSET	61C6
I103	TRUE	3V3S5_COMP	
I104	TRUE	3V3S5_FSET	
I106	TRUE	1V05S0_COMP	
I105	TRUE	1V05S0_FSET	
I107	TRUE	P3V42G3H_FB	63D2

CLOCK NO_TESTS

NO_TEST

I111	TRUE	CK410_CPU0_N	32C4 33D5
I112	TRUE	CK410_CPU0_P	32C4 33D5
I113	TRUE	CK410_CPU1_N	32C4 33D5
I114	TRUE	CK410_CPU1_P	32C4 33D5
I115	TRUE	CK410_CPU2_ITP_SRC10_N	32C4 33D5
I116	TRUE	CK410_CPU2_ITP_SRC10_P	32C4 33D5
I117	TRUE	CK410_DOT96_27M_N	32A4 33B5
I118	TRUE	CK410_DOT96_27M_P	32A4 33B5
I119	TRUE	CK410_LVDS_N	32B4 33A5
I120	TRUE	CK410_LVDS_P	32B4 33A5
I122	TRUE	CK410_PCI4_CLK_SPN	
I122	TRUE	CK410_PCIF1_CLK	32B6 33D8
I123	TRUE	CK410_SRC1_N_SPN	6B3
I122	TRUE	CK410_SRC1_P_SPN	6B3
I125	TRUE	CK410_SRC2_N	32B4 33C5
I183	TRUE	CK410_SRC2_P	32B4 33C5
I184	TRUE	CK410_SRC3_N_SPN	6B3
I185	TRUE	CK410_SRC3_P_SPN	6B3
I186	TRUE	CK410_SRC4_N	32B4 33B5
I187	TRUE	CK410_SRC4_P	32B4 33B5
I188	TRUE	CK410_SRC5_N	32B4 33C5
I189	TRUE	CK410_SRC5_P	32B4 33C5
I190	TRUE	CK410_SRC6_N	32B4 33C5
I191	TRUE	CK410_SRC6_P	32B4 33D5
I192	TRUE	CK410_SRC7_N_SPN	6B3
I193	TRUE	CK410_SRC7_P_SPN	6B3
I194	TRUE	CK410_SRC8_N	32A4 33C5
I197	TRUE	CK410_SRC8_P	32A4 33C5
I195	TRUE	CK410_SRC_CLKREQ1_L_SPN	6B3
I197	TRUE	CK410_SRC_CLKREQ3_L_SPN	6B3
I198	TRUE	CK410_SRC_CLKREQ8_L	32A4 33A5

FIREWARE NO_TESTS

NO_TEST

I199	TRUE	FW_B_TPA_N_SPN	6D1
I200	TRUE	FW_B_TPA_P_SPN	6D1
I201	TRUE	FW_B_TPBIAS_SPN	6D1
I202	TRUE	FW_B_TPB_N_SPN	6D1
I203	TRUE	FW_B_TPB_P_SPN	6D1
I204	TRUE	FW_C_TPA_N_SPN	6D1
I205	TRUE	FW_C_TPA_P_SPN	6D1
I206	TRUE	FW_C_TPBIAS_SPN	6D1
I207	TRUE	FW_C_TPB_N_SPN	6D1
I208	TRUE	FW_C_TPB_P_SPN	6D1

LVDS NO_TESTS

NO_TEST

I209	TRUE	LVDS_B_CLK_N_SPN	6D5
I210	TRUE	LVDS_B_CLK_P_SPN	6D5
I211	TRUE	LVDS_B_DATA_N0_SPN	6D5
I212	TRUE	LVDS_B_DATA_N1_SPN	6D5
I213	TRUE	LVDS_B_DATA_N2_SPN	6D5
I214	TRUE	LVDS_B_DATA_P1_SPN	6D5
I215	TRUE	LVDS_B_DATA_P2_SPN	6D5

ETHERNET NO_TESTS

NO_TEST

I216	TRUE	ENET_MDI_TRAN_P<2>	37B5
I217	TRUE	ENET_MDI_TRAN_N<2>	37B5
I218	TRUE	ENET_MDI_TRAN_P<3>	37B5

NO_TEST

I219	TRUE	SMC_FAN_3_TACH	45B8 46C3
I220	TRUE	ALS_LEFT	45A8 46C3

Fan Connectors

FUNC_TEST

I12	TRUE	=PP5V_S0_FAN_RT	51C4 64D3
I15	TRUE	FAN_RT_PWM	51B3
I16	TRUE	FAN_RT_TACH	51C3
I17	TRUE	=PP3V3_S0_FAN_RT	51C4 64A6
I156	TRUE	SMC_FAN_1_CTL	45B8 51B4
I155	TRUE	SMC_FAN_1_TACH	45B8 51C4

LPC+ Debug Connector

FUNC_TEST

I20	TRUE	=PP3V42_G3H_LPCPLUS	47C6 64D1
I19	TRUE	=PP5V_S0_LPCPLUS	47C6 64D3
I18	TRUE	LPC_AD<0>	21D4 45D8 47C6 53C6
I17	TRUE	LPC_AD<1>	21D4 45D8 47C6 53C6
I74	TRUE	LPC_FRAME_L	21C5 45C8 47C6 53C6
I72	TRUE	PM_CLKRUN_L	23C8 38A5 45D5 47C6 53C6
I73	TRUE	BOOT_LPC_SPI_L	22B3 45C8 47C6
I74	TRUE	SMC_TMS	45B5 46C6 47C6
I75	TRUE	DEBUG_RST_L	26B1 47C6
I76	TRUE	SMC_TRST_L	45C1 47C6
I77	TRUE	SMC_TDO	45C5 46C6 47B6
I78	TRUE	SMC_MD1	45C2 47B6
I79	TRUE	SMC_TX_L	45C8 46B2 46D6 47B6
I80	TRUE	FWH_INIT_L	6B2 21C4 47C5
I81	TRUE	PCI_CLK_PORT80_LPC	33D6 47C5
I82	TRUE	LPC_AD<2>	21D4 45D8 47C5 53C6
I83	TRUE	LPC_AD<3>	21D4 45D8 47C5 53C6
I84	TRUE	INT_SERIRQ	23C8 45C8 47C5 53C6
I85	TRUE	PM_SUS_STAT_L	23C5 45D5 46D3 47C5 53C6
I86	TRUE	SMC_TDI	45C5 46C6 47C5
I87	TRUE	SMC_TCK	45C5 46C6 47C5
I88	TRUE	SMC_RST_L	45C3 46D7 47C5
I89	TRUE	SMC_NMI	45C1 47B5
I90	TRUE	SMC_RX_L	45C8 46B2 46D6 47B5
I91	TRUE	SV_SET_UP	23B6 23C3 47B5
I60			

Other Func Test Points

FUNC_TEST

I62	TRUE	=PP1V05_S0_REG	62B1 64D8

SMBus FUNC_TEST

I182

	TRUE	SMBUS_SMC_MLB_SCL	27C5
I183	TRUE	SMBUS_SMC_MLB_SDA	27B5

FIREWIRE FUNC_TEST

I192	TRUE	PPFW_SWITCH	39D4

SLEEP LED FUNC_TEST

I155	TRUE	SYS_LED_ANODE	35C5 46A3

SMC FUNC_TEST

I150	TRUE	SMC_LID	40C4 45B5 46C6 65A8
I149	TRUE	SMC_MANUAL_RST_L	46D8
I100	TRUE	SMC_CPU_VSENSE	45D5 48B1

Power Supply FUNC_TEST

I160	TRUE	ALL_SYS_PWRGD	26A5 45D8 63B1
I161	TRUE	PPVCORE_CPU_S0	64D7
I162	TRUE	PP1V05_S0	64D7
I163	TRUE	PP1V5_S0	64C7
I164	TRUE	PP1V8_S0	64C7
I165	TRUE	PP2V5_S0	64B7
I166	TRUE	PP3V3_S0	64B7
I167	TRUE	PP5V_S0	64D4
I168	TRUE	PP1V2_S3	64C4
I169	TRUE	PP1V8_S3	64C4
I170	TRUE	PP2V5_S3	64C4
I171	TRUE	PP3V3_S3	64B4
I172	TRUE	PP5V_S3	64B4
I173	TRUE	PP3V3_S5	64A4
I174	TRUE	PP5V_S5	64A4
I175	TRUE	PP3V42_G3H	64D1
I176	TRUE	PPBUSA_G3H	
I177	TRUE	PPBUSB_G3H	64C1
I178	TRUE	PP18V5_G3H	64C1
I181	TRUE	PP0V9_S0	64D7

Battery Digital Connector

FUNC_TEST

I1	TRUE	SMC_BS_ALRT_L	45C5 46C6 65A2
I3	TRUE	SMBUS_BATT_SCL_F	65B6
I4	TRUE	SMBUS_BATT_SDA_F	65A6
I2	TRUE	BATT_IN	
I177	TRUE	BATT_POS	65A6
I160	TRUE	BATT_NEG	65A6

Audio FUNC_TEST

I9	TRUE	PP5V_S0_AUDIO_PWR	
I11	TRUE	PP5V_S0_AUDIO	
I10	TRUE	GND_AUDIO_PWR	64B2
I21	TRUE	GND_AUDIO_CODEC	64B2
I22	TRUE	ACZ_SDATAIN<0>	21C7 54D7
I24	TRUE	ACZ_SDATAOUT	21C7 54D7
I23	TRUE	ACZ_BITCLK	21C7 54D7
I26	TRUE	ACZ_RST_L	21C7 54C7 57C3
I45	TRUE	ACZ_SYNC	21C7 54D7

Battery FUNC_TEST

I29	TRUE	SMC_BATT_ISET	45B5 66B7
I32	TRUE	SMC_BATT_CHG_EN	45D8 46B6 66A4
I31	TRUE	SMC_BC_ACOK	45C5 46B6 65C3 65C7 66A5
I33	TRUE	SMC_PS_ON	39C6 65C3 45D5 46B3
I36	TRUE	SMC_BATT_TRICKLE_EN_L	45D8 46B6 66A3
I38	TRUE	SYS_ONEWIRE	45B8 46D6 65C8

USB FUNC_TEST

I44	TRUE	TP_USBP_E	6C2
I47	TRUE	TP_USBN_E	6C2
I46	TRUE	TP_USBP_F	
I48	TRUE	TP_USBN_F	

DC-JACK FUNC_TEST

I57	TRUE	ACIN_ENABLE_GATE	65C3

Battery charger FUNC_TEST

I58	TRUE	PPVBAT_G3H_CHGR_OUT	66B5 66C2

INVERTER CONNECTOR FUNC_TEST

I60	TRUE	PPBUS_ALL_INV_CONN	67D3
I59	TRUE	INV_GND	67D2
I61	TRUE	PP5V_INV_F	67D3
I63	TRUE	INV_BKLIGHT_PWM_L	67D2

FUNC TEST 1 OF 2

APPLE COMPUTER INC.	SIZE D	DRAWING NUMBER 051-7374	REV. A
	SCALE NONE	SHT 5 OF 79	

(EMI PAD FOR INVERTER GONNECTOR)

67C2 INVT_CHGND — 1 ZS0620 EMI-SPRING CLIP-SM-M42

NC — 1 ZS0621 SM (SPKR-MIC-CLIP-M42)

CHASSIS GND

BATTERY,AUDIO,DIP DIMM CONNECTOR CHASSIS GND

GND_CHASSIS_IO 6C7 — OMIT Z0606 5R2P3-7SQB

65A6 =GND_BATT_CHGND
56B8 =GND_CHASSIS_AUDIO_JACK
=GND_CHASSIS_AUDIO_SPKRCONN
57A6 =GND_CHASSIS_AUDIO_MIC
=GND_CHASSIS_AUDIO_SHIELD1
=GND_CHASSIS_AUDIO_SHIELD2
=GND_CHASSIS_AUDIO_SHIELD3
28A5 =GND_CHASSIS_DIPDIMM_LEFT

SATA,LVDS CONNECTOR CHASSIS GND

GND_CHASSIS_SATA 35C8 — OMIT Z0607 6P5R2P6-5P5B
VOLTAGE=0V MAKE_BASE=TRUE

67B2 67A2 =GND_CHASSIS_LVDS
C0607 0.1UF 10% 16V X5R 402
C0608 0.01UF 10% 16V CERM 402

DCIN CONNECTOR CHASSIS GND

GND_CHASSIS_DCIN — OMIT Z0602 5R2P3-7SQB
VOLTAGE=0V MAKE_BASE=TRUE

65C8 =GND_DCIN_CHGND
37A4 =GND_CHASSIS_RJ45
69C3 69A4 =GND_CHASSIS_TMDS_UPPER
C0630 0.1UF 10% 16V X5R 402

I/O CONNECTOR CHASSIS GND

GND_CHASSIS_IO 607 — OMIT Z0608 5P0R2P3-7BLB
VOLTAGE=0V MAKE_BASE=TRUE

39A1 =GND_CHASSIS_FW_DOWN
42C4 42C2 42A4 42A2 =GND_CHASSIS_USB
C0610 0.1UF 10% 16V X5R 402
C0611 0.01UF 10% 16V CERM 402

DIP DIMM CONNECTOR CHASSIS GND

GND_CHASSIS_CENTER — OMIT Z0610 5R2P3-7SQB
VOLTAGE=0V MAKE_BASE=TRUE

29A5 28D5 =GND_CHASSIS_DIPDIMM_CENTER
C0616 0.1UF 10% 16V X5R 402
C0617 0.01UF 10% 16V CERM 402

DIP DIMM CONNECTOR CHASSIS GND

GND_CHASSIS_RIGHT — OMIT Z0609 5R2P3-7SQB
VOLTAGE=0V MAKE_BASE=TRUE

29D4 =GND_CHASSIS_DIPDIMM_RIGHT
C0614 0.1UF 10% 16V X5R 402
C0615 0.01UF 10% 16V CERM 402

OMIT Z0601 5R2P3-7SQB — GND_CHASSIS_CPU

C0612 0.1UF 10% 16V X5R 402
C0613 0.01UF 10% 16V CERM 402

OMIT Z0611 5R2P3-7B — GND_CHASSIS_FANSCREW

C0618 0.1UF 10% 16V X5R 402
C0619 0.01UF 10% 16V CERM 402

DIGITAL GND SCREW HOLE OMIT

OMIT Z0603 STDOFF-4.5OD3.95H-1.1-3.7-TH1 — NB_RIGHT_DOWN_SCREW
R0612 0 5% 1/16W MF-LF 402

OMIT Z0604 STDOFF-4.5OD3.95H-1.1-3.7-TH1 — CPU_THERMAL_SCREW_UP
R0610 0 5% 1/16W MF-LF 402

OMIT Z0605 STDOFF-4.5OD3.95H-1.1-3.7-TH1 — CPU_THERMAL_SCREW_DOWN
R0611 0 5% 1/16W MF-LF 402

OMIT Z0621 STDOFF-4.5OD3.95H-1.1-3.7-TH1 — CPU_THERMAL_SCREW_RIGHT
R0621 0 5% 1/16W MF-LF 402

LVDS ALIASES

NO-CONNECT UNUSED LVDS INTERFACE PORTS

13C5	LVDS_B_CLK_N	LVDS_B_CLK_N_SPN	5A7
13C5	LVDS_B_CLK_P	LVDS_B_CLK_P_SPN	5A7
13C5	LVDS_B_DATA_N<0>	LVDS_B_DATA_N0_SPN	5A7
13C5	LVDS_B_DATA_N<1>	LVDS_B_DATA_N1_SPN	5A7
13C5	LVDS_B_DATA_N<2>	LVDS_B_DATA_N2_SPN	5A7
13C5	LVDS_B_DATA_P<0>	LVDS_B_DATA_P0_SPN	5A7
13C5	LVDS_B_DATA_P<1>	LVDS_B_DATA_P1_SPN	5A7
13C5	LVDS_B_DATA_P<2>	LVDS_B_DATA_P2_SPN	5A7

MAKE_BASE=TRUE

PCI_EXPRESS GRAPHICS ALIASES

NO-CONNECT UNUSED SDVO INTERFACE PORTS

13D3	PEG_D2R_N<0>	PEG_D2R_N0_SPN
13D3	PEG_D2R_N<2>	PEG_D2R_N2_SPN
13D3	PEG_D2R_N<3>	PEG_D2R_N3_SPN
13D3	PEG_D2R_N<4>	PEG_D2R_N4_SPN
13D3	PEG_D2R_N<5>	PEG_D2R_N5_SPN
13D3	PEG_D2R_N<6>	PEG_D2R_N6_SPN
13D3	PEG_D2R_N<7>	PEG_D2R_N7_SPN
13D3	PEG_D2R_N<8>	PEG_D2R_N8_SPN
13D3	PEG_D2R_N<9>	PEG_D2R_N9_SPN
13C3	PEG_D2R_N<10>	PEG_D2R_N10_SPN
13C3	PEG_D2R_N<11>	PEG_D2R_N11_SPN
13C3	PEG_D2R_N<12>	PEG_D2R_N12_SPN
13C3	PEG_D2R_N<13>	PEG_D2R_N13_SPN
13C3	PEG_D2R_N<14>	PEG_D2R_N14_SPN
13C3	PEG_D2R_N<15>	PEG_D2R_N15_SPN
13C3	PEG_D2R_P<0>	PEG_D2R_P0_SPN
13C3	PEG_D2R_P<2>	PEG_D2R_P2_SPN
13C3	PEG_D2R_P<3>	PEG_D2R_P3_SPN
13C3	PEG_D2R_P<4>	PEG_D2R_P4_SPN
13C3	PEG_D2R_P<5>	PEG_D2R_P5_SPN
13C3	PEG_D2R_P<6>	PEG_D2R_P6_SPN
13C3	PEG_D2R_P<7>	PEG_D2R_P7_SPN
13C3	PEG_D2R_P<8>	PEG_D2R_P8_SPN
13C3	PEG_D2R_P<9>	PEG_D2R_P9_SPN
13C3	PEG_D2R_P<10>	PEG_D2R_P10_SPN
13C3	PEG_D2R_P<11>	PEG_D2R_P11_SPN
13C3	PEG_D2R_P<12>	PEG_D2R_P12_SPN
13C3	PEG_D2R_P<13>	PEG_D2R_P13_SPN
13C3	PEG_D2R_P<14>	PEG_D2R_P14_SPN
13C3	PEG_D2R_P<15>	PEG_D2R_P15_SPN
13B3	PEG_R2D_C_N<4>	PEG_R2D_C_N4_SPN
13B3	PEG_R2D_C_N<5>	PEG_R2D_C_N5_SPN
13B3	PEG_R2D_C_N<6>	PEG_R2D_C_N6_SPN
13B3	PEG_R2D_C_N<7>	PEG_R2D_C_N7_SPN
13B3	PEG_R2D_C_N<8>	PEG_R2D_C_N8_SPN
13B3	PEG_R2D_C_N<9>	PEG_R2D_C_N9_SPN
13B3	PEG_R2D_C_N<10>	PEG_R2D_C_N10_SPN
13B3	PEG_R2D_C_N<11>	PEG_R2D_C_N11_SPN
13B3	PEG_R2D_C_N<12>	PEG_R2D_C_N12_SPN
13B3	PEG_R2D_C_N<13>	PEG_R2D_C_N13_SPN
13B3	PEG_R2D_C_N<14>	PEG_R2D_C_N14_SPN
13B3	PEG_R2D_C_N<15>	PEG_R2D_C_N15_SPN
13B3	PEG_R2D_C_P<4>	PEG_R2D_C_P4_SPN
13B3	PEG_R2D_C_P<5>	PEG_R2D_C_P5_SPN
13B3	PEG_R2D_C_P<6>	PEG_R2D_C_P6_SPN
13B3	PEG_R2D_C_P<7>	PEG_R2D_C_P7_SPN
13B3	PEG_R2D_C_P<8>	PEG_R2D_C_P8_SPN
13B3	PEG_R2D_C_P<9>	PEG_R2D_C_P9_SPN
13B3	PEG_R2D_C_P<10>	PEG_R2D_C_P10_SPN
13B3	PEG_R2D_C_P<11>	PEG_R2D_C_P11_SPN
13A3	PEG_R2D_C_P<12>	PEG_R2D_C_P12_SPN
13A3	PEG_R2D_C_P<13>	PEG_R2D_C_P13_SPN
13A3	PEG_R2D_C_P<14>	PEG_R2D_C_P14_SPN
13A3	PEG_R2D_C_P<15>	PEG_R2D_C_P15_SPN

MAKE_BASE=TRUE

69A3 =GND_CHASSIS_TMDS_DOWN
39A1 =GND_CHASSIS_FW_UPPER
I393
GND_CHASSIS_IO1 — VOLTAGE=0V MAKE_BASE=TRUE

OMIT Z0612 STDOFF-4.2OD2.15H-1.2-TH — NC

OMIT Z0613 STDOFF-4.2OD2.15H-1.2-TH — NC

NB CFG ALIASES

NO-CONNECT UNUSED CFG INTERFACE PORTS

14C6	NB_CFG<3>	TP_NB_CFG3
14C6	NB_CFG<4>	TP_NB_CFG4
14C6	NB_CFG<6>	TP_NB_CFG6
14C6	NB_CFG<8>	TP_NB_CFG8
14C6	NB_CFG<10>	TP_NB_CFG10
14C6	NB_CFG<11>	TP_NB_CFG11
14C6	NB_CFG<12>	TP_NB_CFG12
14C6	NB_CFG<13>	TP_NB_CFG13
14C6	NB_CFG<14>	TP_NB_CFG14
14C6	NB_CFG<15>	TP_NB_CFG15
14C6	NB_CFG<17>	TP_NB_CFG17

MAKE_BASE=TRUE

SATA ALIASES

NO-CONNECT UNUSED SATA INTERFACE PORTS

21B6	SATA_A_D2R_N	SATA_A_D2R_N_SPN
21B6	SATA_A_D2R_P	SATA_A_D2R_P_SPN
21B6	SATA_A_R2D_C_N	SATA_A_R2D_C_N_SPN
21B6	SATA_A_R2D_C_P	SATA_A_R2D_C_P_SPN

MAKE_BASE=TRUE

PCI_EXP ALIASES

NO-CONNECT UNUSED PCI_EXP INTERFACE PORTS

22D4	PCIE_C_D2R_N	PCIE_C_D2R_N_SPN
22D4	PCIE_C_D2R_P	PCIE_C_D2R_P_SPN
22D4	PCIE_C_R2D_C_N	PCIE_C_R2D_C_N_SPN
22D4	PCIE_C_R2D_C_P	PCIE_C_R2D_C_P_SPN
22D4	PCIE_D_D2R_N	PCIE_D_D2R_N_SPN
22D4	PCIE_D_D2R_P	PCIE_D_D2R_P_SPN
22D4	PCIE_D_R2D_C_N	PCIE_D_R2D_C_N_SPN
22D4	PCIE_D_R2D_C_P	PCIE_D_R2D_C_P_SPN
22C4	PCIE_E_D2R_N	PCIE_E_D2R_N_SPN
22C4	PCIE_E_D2R_P	PCIE_E_D2R_P_SPN
22C4	PCIE_E_R2D_C_N	PCIE_E_R2D_C_N_SPN
22C4	PCIE_E_R2D_C_P	PCIE_E_R2D_C_P_SPN
22C4	PCIE_F_D2R_N	PCIE_F_D2R_N_SPN
22C4	PCIE_F_D2R_P	PCIE_F_D2R_P_SPN
22C4	PCIE_F_R2D_C_N	PCIE_F_R2D_C_N_SPN
22C4	PCIE_F_R2D_C_P	PCIE_F_R2D_C_P_SPN

MAKE_BASE=TRUE

CLOCK ALIASES

NO-CONNECT UNUSED CLOCK INTERFACE PORTS

32B4	CK410_SRC1_N	CK410_SRC1_N_SPN 5C7
32B4	CK410_SRC1_P	CK410_SRC1_P_SPN 5C7
32B4	CK410_SRC3_N	CK410_SRC3_N_SPN 5C7
32B4	CK410_SRC3_P	CK410_SRC3_P_SPN 5C7
32B4	CK410_SRC7_N	CK410_SRC7_N_SPN 5C7
32B4	CK410_SRC7_P	CK410_SRC7_P_SPN 5C7
32B4	CK410_SRC_CLKREQ1_L	CK410_SRC_CLKREQ1_L_SPN 5B7
32B4	CK410_SRC_CLKREQ3_L	CK410_SRC_CLKREQ3_L_SPN 5B7

MAKE_BASE=TRUE

SB ALIASES

NO-CONNECT UNUSED CLOCK INTERFACE PORTS

23C3 SUS_CLK_SB — SUS_CLK_SB_SPN

MAKE_BASE=TRUE

SO-DIMM ALIASES

NO-CONNECT UNUSED ADDRESS INTERFACE PORTS

28C4	MEM_A_A<15>	MEM_A_A15_SPN
28C4	MEM_A_A<14>	MEM_A_A14_SPN
29C4	MEM_B_A<15>	MEM_B_A15_SPN
29C4	MEM_B_A<14>	MEM_B_A14_SPN

MAKE_BASE=TRUE

Ethernet ALIASES

36C8	ENET_CTRL12	ENET_CTRL12_SPN
36C8	ENET_CTRL25	ENET_CTRL25_SPN

MAKE_BASE=TRUE

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
860-0722	4	THERMAL STANDOFF	Z0603,Z0604,Z0605,Z0621	STANDOFF
860-0723	1	STANDOFF WIRELESS	Z0612	STANDOFF
860-0749	1	STANDOFF W/THRU HOLES,WIRELESS	Z0613	STANDOFF

FIREWIRE ALIASES

NO-CONNECT UNUSED FIREWIRE INTERFACE PORTS

38B3	FW_B_TPBIAS	FW_B_TPBIAS_SPN 5B7
38B3	FW_B_TPA_P	FW_B_TPA_P_SPN 5B7
38B3	FW_B_TPA_N	FW_B_TPA_N_SPN 5B7
38B3	FW_B_TPB_P	FW_B_TPB_P_SPN 5B7
38B3	FW_B_TPB_N	FW_B_TPB_N_SPN 5B7
38B3	FW_C_TPBIAS	FW_C_TPBIAS_SPN 5B7
38B3	FW_C_TPA_P	FW_C_TPA_P_SPN 5B7
38B3	FW_C_TPA_N	FW_C_TPA_N_SPN 5B7
38B3	FW_C_TPB_P	FW_C_TPB_P_SPN 5B7
38B3	FW_C_TPB_N	FW_C_TPB_N_SPN 5B7

MAKE_BASE=TRUE

39C6 =FWPWR_PWRON — NC_FWPWR_PWRON
NO_TEST=TRUE MAKE_BASE=TRUE

USB PORT A = External USB2.0 Port

42C5 =USB2_EXTA_P — USB2_EXTA_P — USB_A_P 22C2
42C5 =USB2_EXTA_N — USB2_EXTA_N — USB_A_N 22C2
42C8 =EXTAUSB_OC_L — EXTAUSB_OC_L — USB_A_OC_L 22C4 22D8
MAKE_BASE=TRUE

USB PORT B = Trackpad(Geyser)

40C7 =USB2_GEYSER_P — USB2_GEYSER_P — USB_B_P 22C2
40C7 =USB2_GEYSER_N — USB2_GEYSER_N — USB_B_N 22C2
MAKE_BASE=TRUE

USB PORT C = External USB2.0 Port B

42B5 =USB2_EXTB_P — USB2_EXTB_P — USB_C_P 22C2
42B5 =USB2_EXTB_N — USB2_EXTB_N — USB_C_N 22C2
42C8 =EXTBUSB_OC_L — EXTBUSB_OC_L — USB_C_OC_L 22C4 22D8
MAKE_BASE=TRUE

USB PORT D = CAMERA

67B4 =USB2_CAMERA_P — USB2_CAMERA_P — USB_D_P 22C2
67A4 =USB2_CAMERA_N — USB2_CAMERA_N — USB_D_N 22C2
MAKE_BASE=TRUE

USB PORT "E" = Unused

5C1 TP_USBP_E — USB_E_P 22C2
MAKE_BASE=TRUE
5C1 TP_USBN_E — USB_E_N 22C2
MAKE_BASE=TRUE

USB PORT "F" = IR CONTROLLER

41C6 =USB2_IR_P — USB_IR_P — USB_F_P 22C2
41C6 =USB2_IR_N — USB_IR_N — USB_F_N 22C2
MAKE_BASE=TRUE

USB PORT "G" = BLUETOOTH

44C6 =USB2_BT_P — USB_BT_P — USB_G_P 22C2
44C6 =USB2_BT_N — USB_BT_N — USB_G_N 22C2
MAKE_BASE=TRUE

USB PORT "H" = PCI-E Mini Card

43B4 =USB2_AIRPORT_P — USB2_AIRPORT_P — USB_H_P 22C2
43B4 =USB2_AIRPORT_N — USB2_AIRPORT_N — USB_H_N 22C2
MAKE_BASE=TRUE

ANALOG SWITCH GPIO

69A6 =SB_GPIO22 — SB_GPIO22 — TP_SB_GPIO22 22B6
MAKE_BASE=TRUE

45B8 14B7 PM_EXTTS_L<0> — DIMM_OVERTEMP_L 28C4 29C4
MAKE_BASE=TRUE 5B7

47C5 21C4 5C2 FWH_INIT_L — SMC_CPU_INIT_3_3_L 45D5
MAKE_BASE=TRUE

SIGNAL ALIAS /RESET

SYNC_MASTER=ENET — SYNC_DATE=08/19/2005

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APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 6 OF 79	

OMIT

U0700
YONAH
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*

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*

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*

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

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

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

=PP1V05_S0_CPU
R0702 54.9 1% 1/16W MF-LF 402
PLACE TESTPOINT ON FSB_IERR_L WITH A GND 0.1" AWAY

=PP1V05_S0_CPU
R0703 54.9 1% 1/16W MF-LF 402
R0704 68 5% 1/16W MF-LF 402
CPU_PROCHOT_L TO SMC AND CPU VR TO INFORM CPU IS HOT

PM_THRMTRIP# SHOULD CONNECT TO ICH7-M AND GMCH WITHOUT T-ING (NO STUB)

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

=PP1V05_S0_CPU
R0705 1K 1% 1/16W MF-LF 402
R0706 2.0K 1% 1/16W MF-LF 402
LAYOUT NOTE: 0.5" MAX LENGTH
CPU_GTLREF
CPU_TEST1
CPU_TEST2
CPU_BSEL<0>
CPU_BSEL<1>
CPU_BSEL<2>
NOSTUFF R0730 0
R0712 51 5% 1/16W MF-LF 402
NOSTUFF R0707 1K 5% 1/16W MF-LF 402

=PP1V05_S0_CPU
R0720 54.9 1% XDP_TMS
R0721 54.9 1% XDP_TDI
R0722 54.9 1% XDP_TCK

CHANGE THE PULLS RESISTOR VALUE PER NAPA PLATFORM DG REV 0.9

WE THROUGH THE ITP700FLEX CONNECTOR CONNECT TO PDB XDP BUFFER BOARD--ECM*50
SO THE TDI PULL UP THROUGH 54.9 OHM,TMS PULL UP THROUGH 54.9 OHM
TCK PULL DOWN THROUGH 54.9 OHM(FOLLOW UP XDP DESIGN REFERENCE)

OMIT

U0700
YONAH
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
FSB_D_L<32> AA23 D32*
FSB_D_L<33> AB24 D33*
FSB_D_L<34> V24 D34*
FSB_D_L<35> V26 D35*
FSB_D_L<36> W25 D36*
FSB_D_L<37> U23 D37*
FSB_D_L<38> U25 D38*
FSB_D_L<39> U22 D39*
FSB_D_L<40> AB25 D40*
FSB_D_L<41> W22 D41*
FSB_D_L<42> Y23 D42*
FSB_D_L<43> AA26 D43*
FSB_D_L<44> Y26 D44*
FSB_D_L<45> Y22 D45*
FSB_D_L<46> AC26 D46*
FSB_D_L<47> AA24 D47*
FSB_DSTBN_L<2> W24 DSTBN2*
FSB_DSTBP_L<2> Y25 DSTBP2*
FSB_DINV_L<2> V23 DINV2*

DATA GRP3
FSB_D_L<48> AC22 D48*
FSB_D_L<49> AC23 D49*
FSB_D_L<50> AB22 D50*
FSB_D_L<51> AA21 D51*
FSB_D_L<52> AB21 D52*
FSB_D_L<53> AC25 D53*
FSB_D_L<54> AD20 D54*
FSB_D_L<55> AE22 D55*
FSB_D_L<56> AF23 D56*
FSB_D_L<57> AD24 D57*
FSB_D_L<58> AE21 D58*
FSB_D_L<59> AD21 D59*
FSB_D_L<60> AE25 D60*
FSB_D_L<61> AF25 D61*
FSB_D_L<62> AF22 D62*
FSB_D_L<63> AF26 D63*
FSB_DSTBN_L<3> AD23 DSTBN3*
FSB_DSTBP_L<3> AE24 DSTBP3*
FSB_DINV_L<3> AC20 DINV3*

MISC
GTLREF AD26
NC A2
TEST1 C26
TEST2 D25
BSEL0 B22
BSEL1 B23
BSEL2 C21
CPU_COMP<0> R26
CPU_COMP<1> U26
CPU_COMP<2> U1
CPU_COMP<3> V1
CPU_DPRSTP_L E5
CPU_DPSLP_L B5
FSB_DPWR_L D24
CPU_PWRGD D6
FSB_SLPCPU_L D7
CPU_PSI_L AE6

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

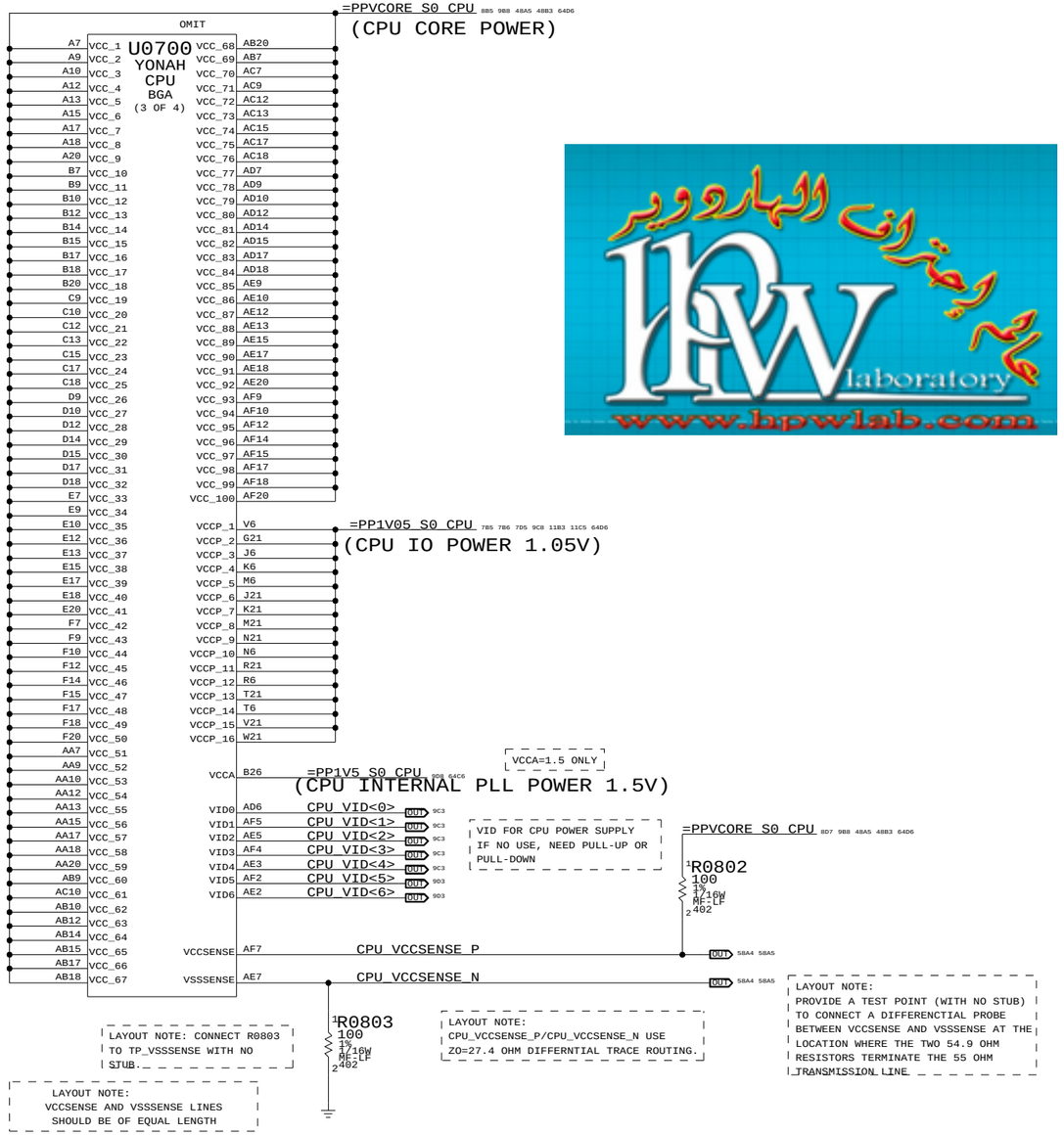
R0716 27.4 1% 402
R0717 54.9 1% 402
R0718 27.4 1% 402
R0719 54.9 1% 402

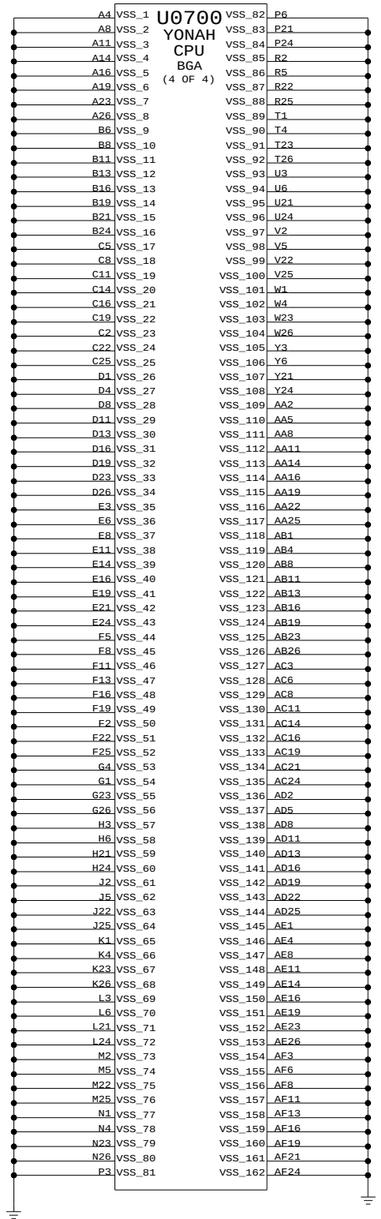
CPU 1 OF 2-FSB

SYNC_MASTER=MASTER SYNC_DATE=05/03/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 7 OF 79	





CPU 2 OF 2-PWR/GND

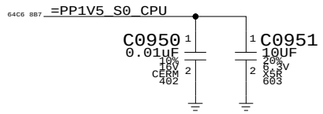
SYNC_MASTER=MASTER SYNC_DATE=05/03/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A

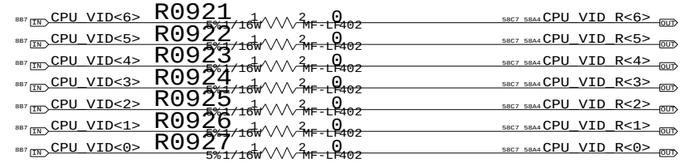
SCALE	SHT	OF
NONE	8	79

VCCA DECOUPLING
(CPU INTERNAL PLL POWER 1.5V)



PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S0603	138S0602	?	ALL	USE SAMSUNG AND MURATA ONLY
138S0606	138S0602	?	ALL	USE TAIYO

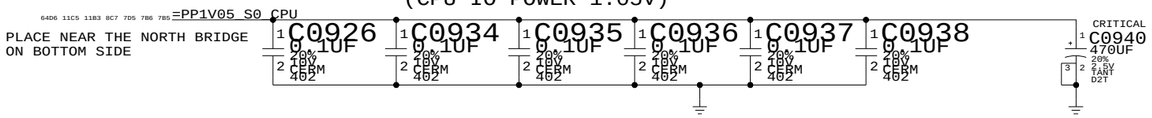
CPU CORE VID<> SETTINGS



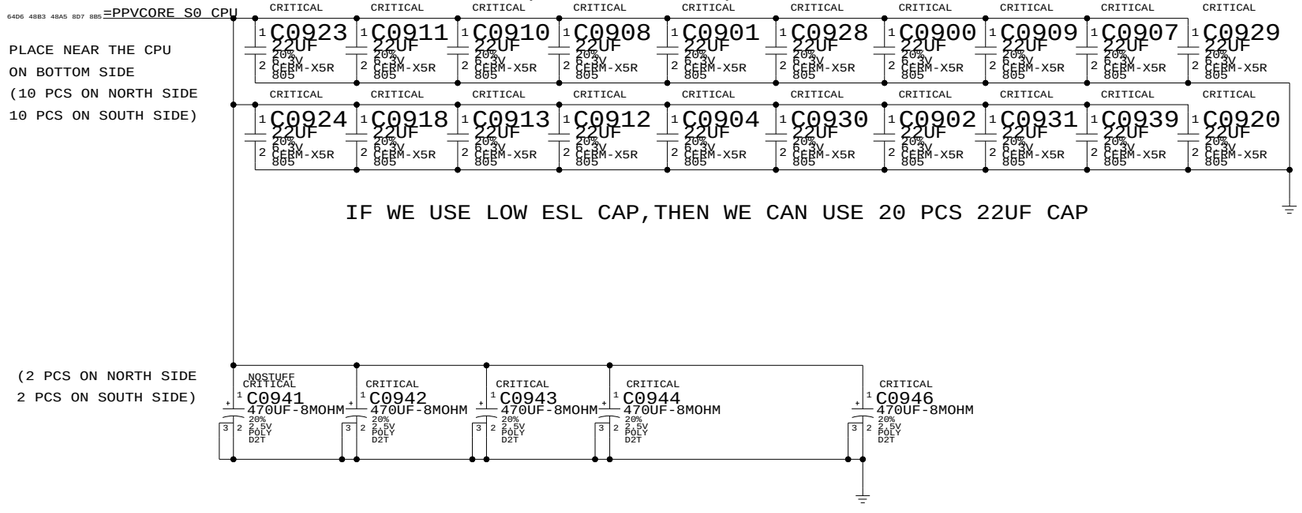
R0921~R0927 FOR CPU VOLTAGE MANUAL SETTING

VCCP CORE DECOUPLING
(CPU IO POWER 1.05V)

THIS 470UF FOR CPU,GMCH FSB BUS 1.05V



VCC CORE DECOUPLING
(CPU CORE POWER)



		MIN	TYP	MAX
DUAL CORE SV CPU	VCCHFM	1.1625		1.30
	VCCLFM	TBD		TBD
SINGLE CORE SV CPU	VCCHFM	1.1625		1.30
	VCCLFM		TBD	
DUAL CORE LV CPU	VCCHFM	1.0		1.1625
	VCCLFM		TBD	
ULV CPU	VCCHFM	TBD		TBD
	VCCLFM		TBD	

UNIT: V

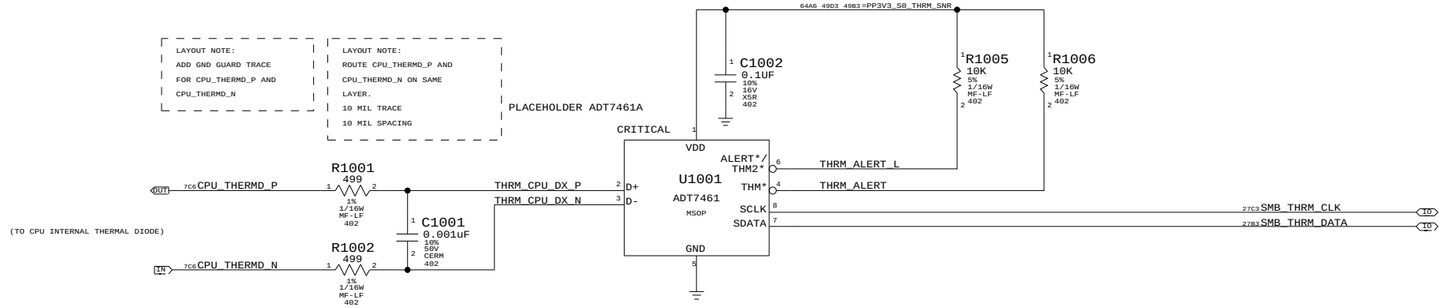
ALL PROCESSOR DEFAULT VCORE FOR INITIAL POWER UP IS 1.2V
TWO PROCESSORS AT THE SAME FREQUENCY MAY HAVE DIFFERENT SETTING WITH THE VID RANGE(VCORE VOLTAGE)!
REFER TO YONAH PROCESSOR EMTS REV 1.0
VCCHFM: VCORE AT HIGHEST FREQUENCY MODE
VCCLFM: VCORE AT LOWEST FREQUENCY MODE

CPU DECAPS & VID<>

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 9 OF 79	

CPU ZONE THERMAL SENSOR



PLACE U1001 NEAR THE U1200

CPU MISC1-TEMP SENSOR			
SYNC_MASTER=ENET	SYNC_DATE=08/19/2005		
NOTICE OF PROPRIETARY PROPERTY			
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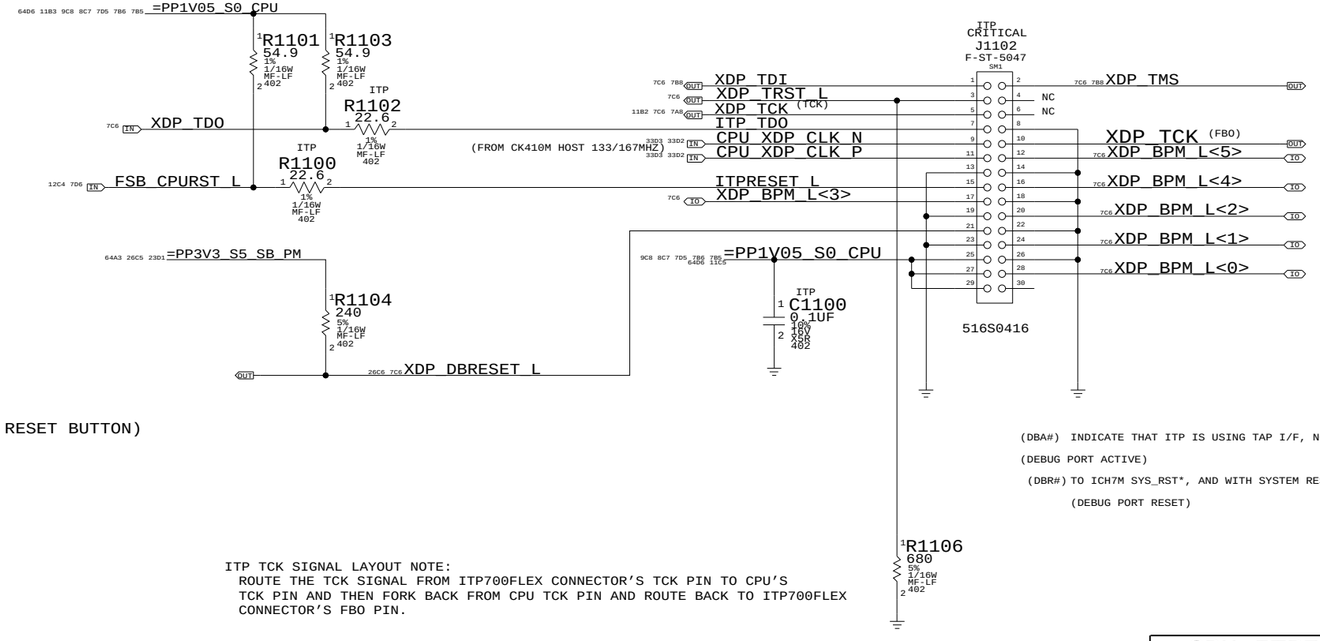
APPLE COMPUTER INC.	SIZE: D	DRAWING NUMBER: 051-7374	REV: A
	SCALE: NONE	SHT: 10 OF 79	

CPU ITP700FLEX DEBUG SUPPORT



(AND WITH RESET BUTTON)

(DBA#) INDICATE THAT ITP IS USING TAP I/F, NC IN 945GM CHIPSET SYSTEM.

(DEBUG PORT ACTIVE)

(DBR#) TO ICH7M SYS_RST*, AND WITH SYSTEM RESET LOGIC

(DEBUG PORT RESET)

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	051-7374	A
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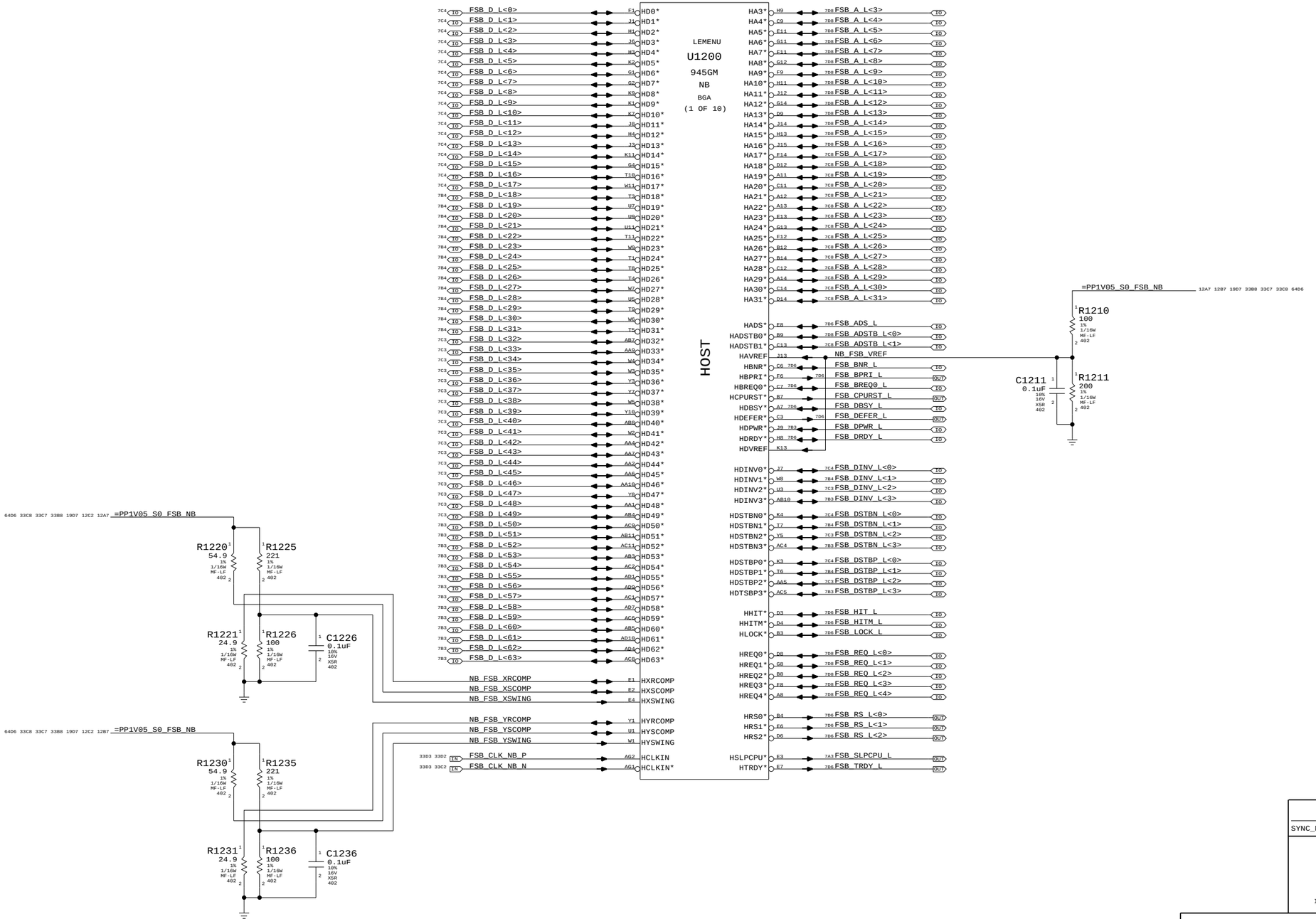

NB CPU Interface

SYNC_MASTER=NB SYNC_DATE=07/25/2005

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APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
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LVDS Disable

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

TV-Out Signal Usage:

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

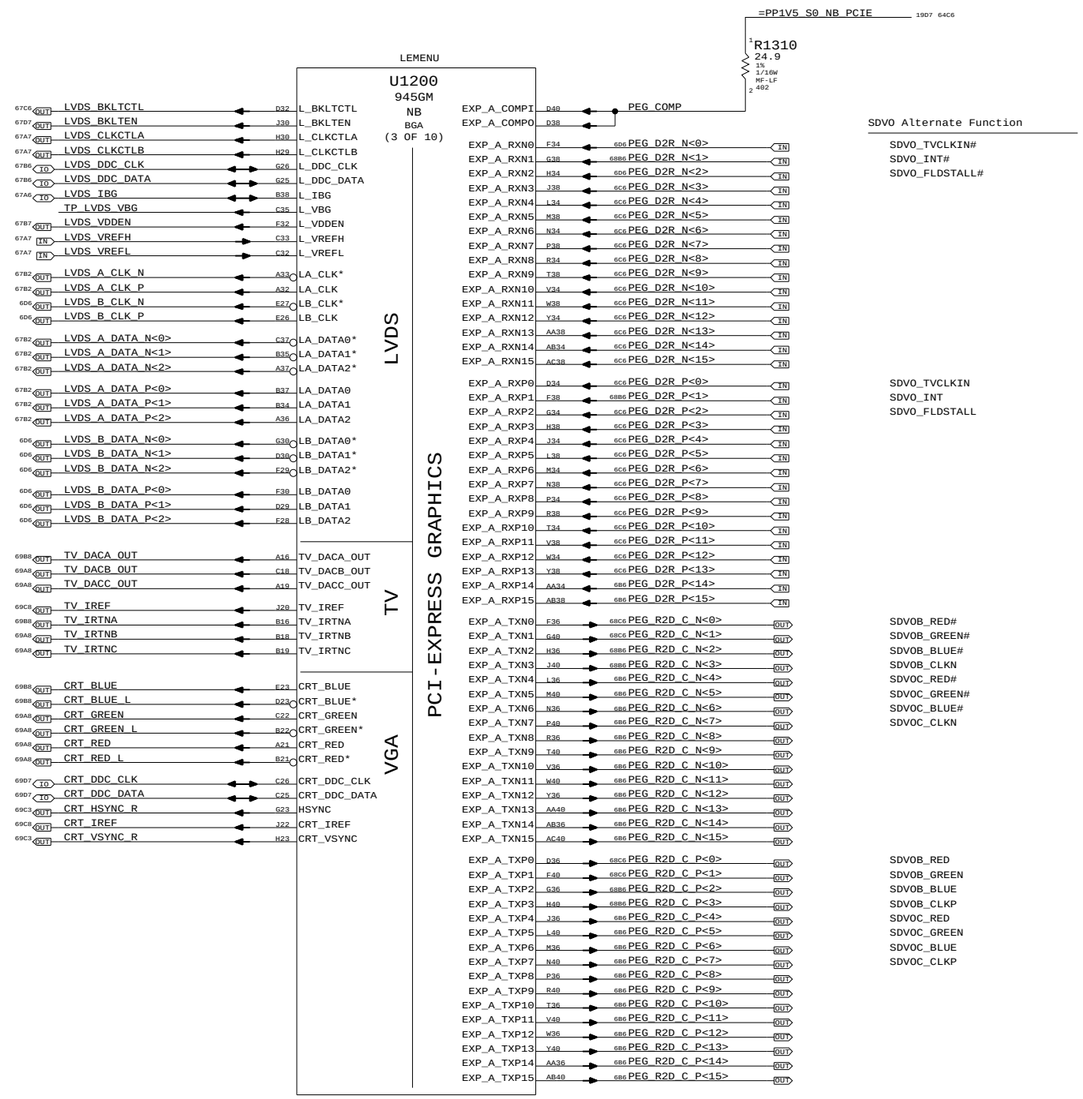
Unused DAC outputs must remain powered, but can omit
filtering components. Unused DAC outputs should
connect to GND through 75-ohm resistors.

TV-Out Disable

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

CRT Disable

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



SDVO Alternate Function

SDVO_TVCLKIN#
SDVO_INT#
SDVO_FLDSTALL#

SDVO_TVCLKIN
SDVO_INT
SDVO_FLDSTALL

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

SDVOB_RED
SDVOB_GREEN
SDVOB_BLUE
SDVOB_CLKP
SDVOC_RED
SDVOC_GREEN
SDVOC_BLUE
SDVOC_CLKP

NB PEG / Video Interfaces

SYNC_MASTER=NB SYNC_DATE=07/25/2005

APPLE COMPUTER INC.

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D	051-7374	A
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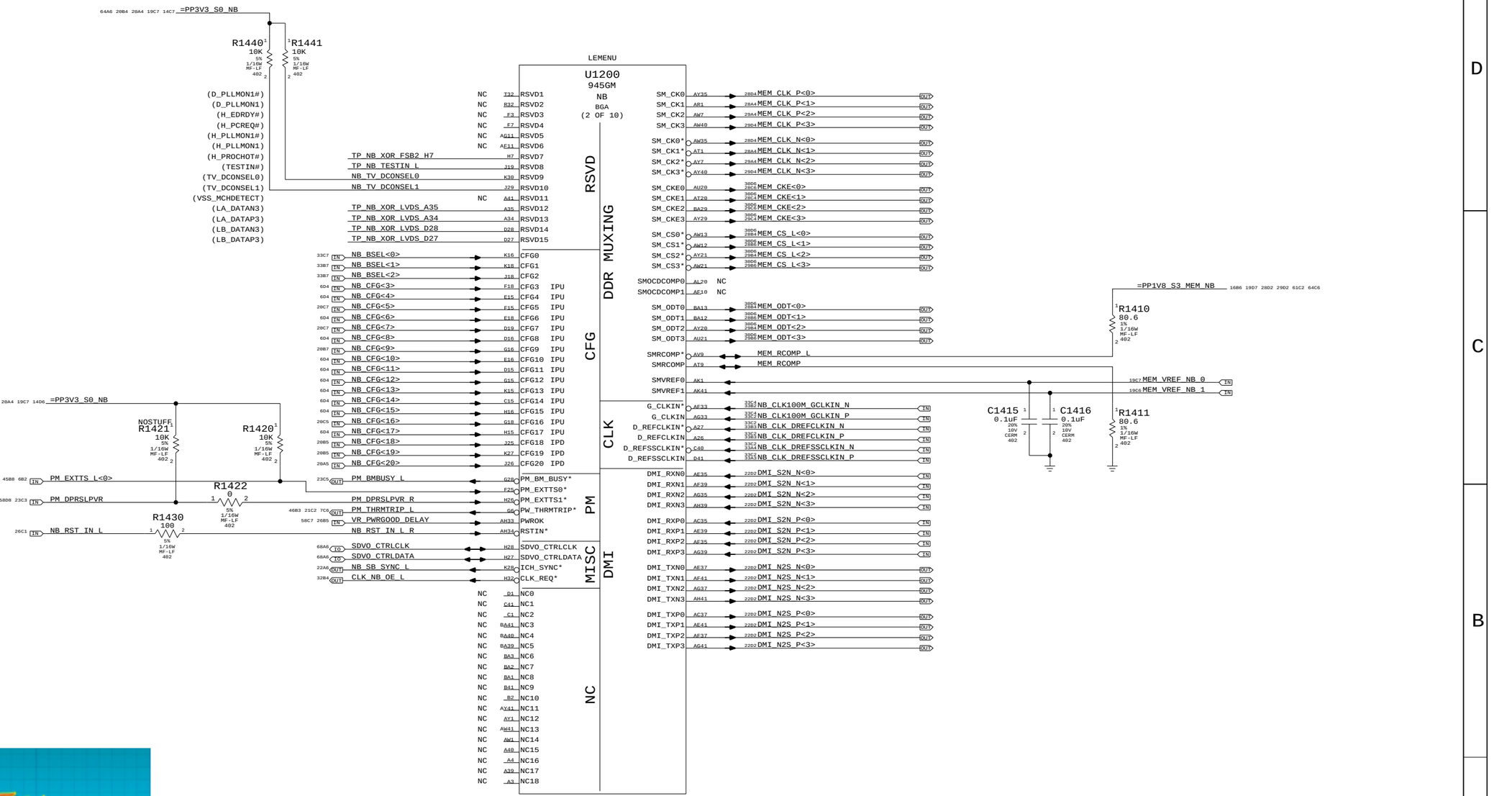

NB Misc Interfaces

SYNC_MASTER=NB SYNC_DATE=08/15/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 14 OF 79	

LEMENU

U1200
945GM
NB
BGA
(4 OF 10)

DDR SYSTEM MEMORY A

28D4	TO	MEM_A_DQ<0>	AJ35	SA_DQ0	AU12	30C6 28B4	MEM_A_BS<0>
28D4	TO	MEM_A_DQ<1>	AJ34	SA_DQ1	AV14	30C6 28B4	MEM_A_BS<1>
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28D6	TO	MEM_A_DQ<3>	AM33	SA_DQ3	AY13	30B6 28B4	MEM_A_CAS_L
28D4	TO	MEM_A_DQ<4>	AJ36	SA_DQ4	AJ33	28D4	MEM_A_DM<0>
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28A4	TO	MEM_A_DQ<62>	AF4	SA_DQ62			
28A6	TO	MEM_A_DQ<63>	AF8	SA_DQ63			

LEMENU

U1200
945GM
NB
BGA
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DDR SYSTEM MEMORY B

29D4	TO	MEM_B_DQ<0>	AK39	SB_DQ0	AT24	30A6 29B4	MEM_B_BS<0>
29D6	TO	MEM_B_DQ<1>	AJ37	SB_DQ1	AV23	30A6 29B4	MEM_B_BS<1>
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29D6	TO	MEM_B_DQ<3>	AR41	SB_DQ3	AR24	30A6 29B6	MEM_B_CAS_L
29D4	TO	MEM_B_DQ<4>	AJ38	SB_DQ4	AK36	29D4	MEM_B_DM<0>
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29B6	TO	MEM_B_DQ<57>	AR5	SB_DQ57			
29B6	TO	MEM_B_DQ<58>	AK4	SB_DQ58			
29B4	TO	MEM_B_DQ<59>	AK3	SB_DQ59			
29B6	TO	MEM_B_DQ<60>	AT4	SB_DQ60			
29B4	TO	MEM_B_DQ<61>	AK5	SB_DQ61			
29B6	TO	MEM_B_DQ<62>	AJ5	SB_DQ62			
29B4	TO	MEM_B_DQ<63>	AJ3	SB_DQ63			

NB DDR2 Interfaces

SYNC_MASTER=NB SYNC_DATE=07/25/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A

SCALE	SHT	OF
NONE	15	79

NCTF balls are Not Critical To Function

These connections can break without impacting part performance.

=PPVCORE_S0_NB 16D3 19C8 19D7 64D6

1.05V or 1.5V

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

VCC_0 AA33, VCC_1 AK3, VCC_2 P33, VCC_3 N33, VCC_4 L33, VCC_5 J33, VCC_6 AA32, VCC_7 Y32, VCC_8 W32, VCC_9 V32, VCC_10 P32, VCC_11 N32, VCC_12 M32, VCC_13 L32, VCC_14 J32, VCC_15 AA31, VCC_16 W31, VCC_17 V31, VCC_18 T31, VCC_19 R31, VCC_20 P31, VCC_21 N31, VCC_22 L31, VCC_23 AA30, VCC_24 W30, VCC_25 V30, VCC_26 U30, VCC_27 T30, VCC_28 R30, VCC_29 P30, VCC_30 N30, VCC_31 L30, VCC_32 AA29, VCC_33 L29, VCC_34 J29, VCC_35 W29, VCC_36 V29, VCC_37 U29, VCC_38 P29, VCC_39 M29, VCC_40 L29, VCC_41 W28, VCC_42 L28, VCC_43 AB28, VCC_44 AA28, VCC_45 Y28, VCC_46 V28, VCC_47 U28, VCC_48 T28, VCC_49 R28, VCC_50 P28, VCC_51 N28, VCC_52 M28, VCC_53 L28, VCC_54 P27, VCC_55 N27, VCC_56 M27, VCC_57 L27, VCC_58 P26, VCC_59 N26, VCC_60 L26, VCC_61 M25, VCC_62 L25, VCC_63 P24, VCC_64 M24, VCC_65 M23, VCC_66 L23, VCC_67 AB23, VCC_68 AA23, VCC_69 Y23, VCC_70 P23, VCC_71 N23, VCC_72 M23, VCC_73 L23, VCC_74 AC22, VCC_75 AB22, VCC_76 Y22, VCC_77 W22, VCC_78 P22, VCC_79 N22, VCC_80 M22, VCC_81 L22, VCC_82 AC21, VCC_83 AA21, VCC_84 W21, VCC_85 N21, VCC_86 M21, VCC_87 L21, VCC_88 AC20, VCC_89 AB20, VCC_90 W20, VCC_91 P20, VCC_92 N20, VCC_93 M20, VCC_94 L20, VCC_95 AB19, VCC_96 AA19, VCC_97 Y19, VCC_98 W19, VCC_99 N19, VCC_100 M19, VCC_101 L19, VCC_102 N18, VCC_103 L18, VCC_104 P17, VCC_105 N17, VCC_106 M17, VCC_107 N16, VCC_108 M16, VCC_109 L16, VCC_110

VCC_SM0 AU41, VCC_SM1 AT41, VCC_SM2 AM41, VCC_SM3 AU40, VCC_SM4 BA34, VCC_SM5 AW34, VCC_SM6 AV34, VCC_SM7 AU34, VCC_SM8 AT34, VCC_SM9 AR34, VCC_SM10 BA30, VCC_SM11 AY30, VCC_SM12 AW30, VCC_SM13 AV30, VCC_SM14 AU30, VCC_SM15 AT30, VCC_SM16 AR30, VCC_SM17 AP30, VCC_SM18 AN30, VCC_SM19 AM30, VCC_SM20 AM29, VCC_SM21 AL29, VCC_SM22 AK29, VCC_SM23 AJ29, VCC_SM24 AH29, VCC_SM25 AJ28, VCC_SM26 AH28, VCC_SM27 AJ27, VCC_SM28 AH27, VCC_SM29 BA26, VCC_SM30 AY26, VCC_SM31 AW26, VCC_SM32 AV26, VCC_SM33 AU26, VCC_SM34 AT26, VCC_SM35 AR26, VCC_SM36 AJ26, VCC_SM37 AH26, VCC_SM38 AJ25, VCC_SM39 AH25, VCC_SM40 AJ24, VCC_SM41 AH24, VCC_SM42 BA23, VCC_SM43 AJ23, VCC_SM44 BA22, VCC_SM45 AY22, VCC_SM46 AW22, VCC_SM47 AV22, VCC_SM48 AU22, VCC_SM49 AT22, VCC_SM50 AR22, VCC_SM51 AP22, VCC_SM52 AK22, VCC_SM53 AJ22, VCC_SM54 AK21, VCC_SM55 AK20, VCC_SM56 BA19, VCC_SM57 AY19, VCC_SM58 AW19, VCC_SM59 AV19, VCC_SM60 AU19, VCC_SM61 AT19, VCC_SM62 AR19, VCC_SM63 AP19, VCC_SM64 AK19, VCC_SM65 AJ19, VCC_SM66 AJ18, VCC_SM67 AH17, VCC_SM68 AJ16, VCC_SM69 AH16, VCC_SM70 BA15, VCC_SM71 AY15, VCC_SM72 AW15, VCC_SM73 AV15, VCC_SM74 AU15, VCC_SM75 AT15, VCC_SM76 AR15, VCC_SM77 AJ15, VCC_SM78 AH15, VCC_SM79 AJ14, VCC_SM80 AJ13, VCC_SM81 AH13, VCC_SM82 AK12, VCC_SM83 AJ12, VCC_SM84 AH12, VCC_SM85 AG12, VCC_SM86 AK11, VCC_SM87 BA8, VCC_SM88 AY8, VCC_SM89 AW8, VCC_SM90 AV8, VCC_SM91 AU8, VCC_SM92 AT8, VCC_SM93 AR8, VCC_SM94 AP8, VCC_SM95 BA6, VCC_SM96 AY6, VCC_SM97 AV6, VCC_SM98 AU6, VCC_SM99 AT6, VCC_SM100 AR6, VCC_SM101 AP6, VCC_SM102 AN6, VCC_SM103 AL6, VCC_SM104 AJ6, VCC_SM105 AV1, VCC_SM106 AU1, VCC_SM107 A31

NB_VCCSM_LF4

NB_VCCSM_LF5

C1614 0.47UF 10% 6.3V CERM-X5R 402

C1613 0.47UF 10% 6.3V CERM-X5R 402

C1615 0.47UF 10% 6.3V CERM-X5R 402 — Layout Note: Place near pin BA23

=PP1V8_S3_MEM_NB 28D2 19D7 14C2 64C6 61C2 29D2

C1620 10uF 20% 6.3V X5R 603

C1621 10uF 20% 6.3V X5R 603

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

C1610 0.47UF 10% 6.3V CERM-X5R 402 — Layout Note: Place near pin BA15

NB_VCCSM_LF2

NB_VCCSM_LF1

C1612 0.47UF 10% 6.3V CERM-X5R 402

C1611 0.47UF 10% 6.3V CERM-X5R 402

=PPVCORE_S0_NB 64D6 19D7 19C8 16C8

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

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

VSS_NCTF0 AE27, VSS_NCTF1 AE26, VSS_NCTF2 AE25, VSS_NCTF3 AE24, VSS_NCTF4 AE23, VSS_NCTF5 AE22, VSS_NCTF6 AE21, VSS_NCTF7 AE20, VSS_NCTF8 AE19, VSS_NCTF9 AE18, VSS_NCTF10 AC17, VSS_NCTF11 Y17, VSS_NCTF12 U17

=PP1V5_S0_NB_VCCAUX 17B5 19B6 19D7 64C6

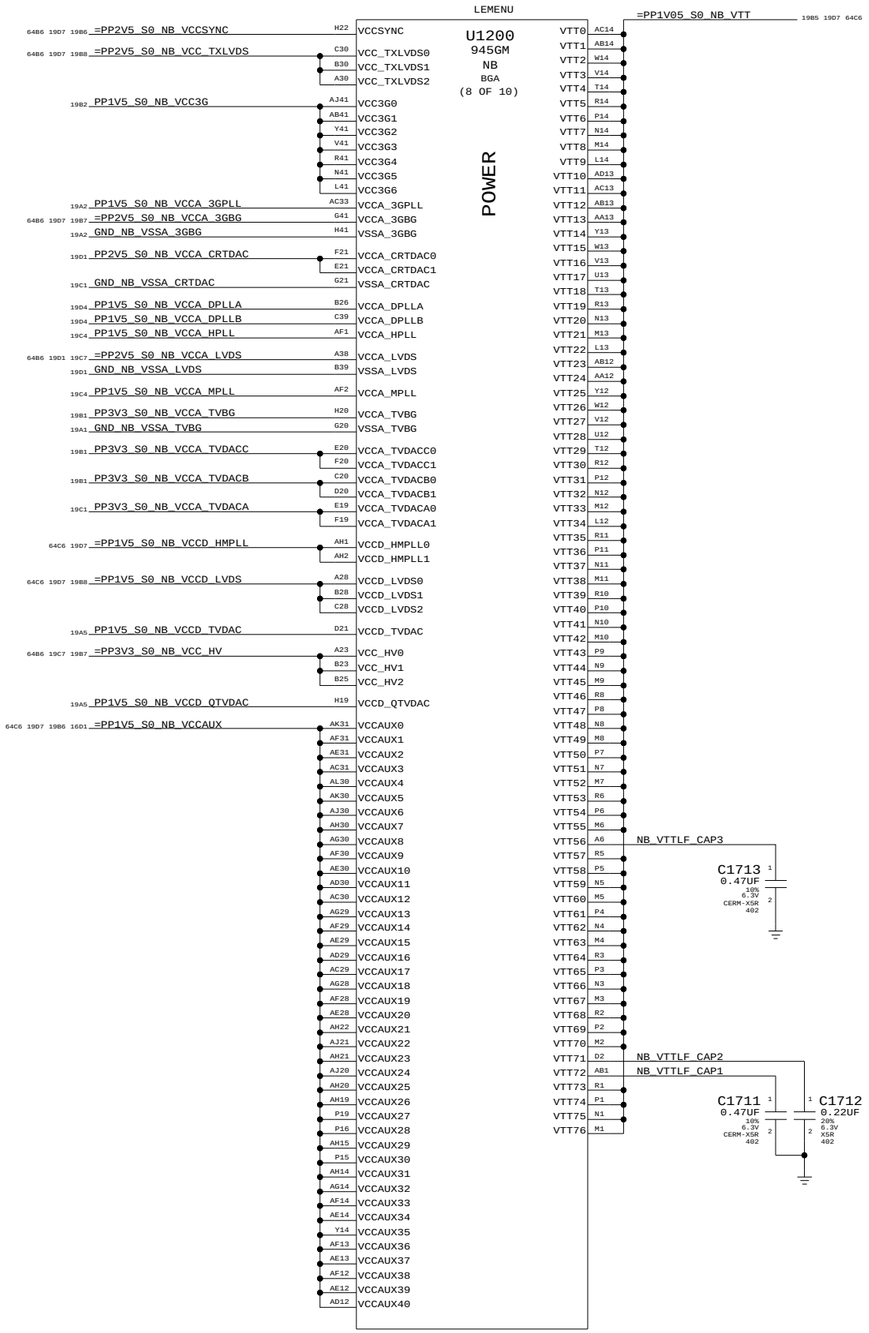
VCCAUX_NCTF0 AG27, VCCAUX_NCTF1 AF27, VCCAUX_NCTF2 AG26, VCCAUX_NCTF3 AF26, VCCAUX_NCTF4 AG25, VCCAUX_NCTF5 AF25, VCCAUX_NCTF6 AG24, VCCAUX_NCTF7 AF24, VCCAUX_NCTF8 AG23, VCCAUX_NCTF9 AF23, VCCAUX_NCTF10 AG22, VCCAUX_NCTF11 AF22, VCCAUX_NCTF12 AG21, VCCAUX_NCTF13 AF21, VCCAUX_NCTF14 AG20, VCCAUX_NCTF15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

NB Power 1

SYNC_MASTER=NB SYNC_DATE=07/25/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 16 OF 79	



NB Power 2

SYNC_MASTER=NB SYNC_DATE=07/25/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 17 OF 79	

LEMENU

U1200
945GM
NB
BGA
(9 OF 10)

VSS

AC41	VSS_0	VSS_97	AK34
AA41	VSS_1	VSS_98	AG34
W41	VSS_2	VSS_99	AF34
T41	VSS_3	VSS_100	AE34
P41	VSS_4	VSS_101	AC34
M41	VSS_5	VSS_102	C34
J41	VSS_6	VSS_103	AW33
F41	VSS_7	VSS_104	AV33
AV40	VSS_8	VSS_105	AR33
AP40	VSS_9	VSS_106	AE33
AN40	VSS_10	VSS_107	AB33
AK40	VSS_11	VSS_108	Y33
AJ40	VSS_12	VSS_109	V33
AH40	VSS_13	VSS_110	T33
AG40	VSS_14	VSS_111	R33
AF40	VSS_15	VSS_112	M33
AE40	VSS_16	VSS_113	H33
B40	VSS_17	VSS_114	G33
AY39	VSS_18	VSS_115	F33
AW39	VSS_19	VSS_116	D33
AV39	VSS_20	VSS_117	B33
AR39	VSS_21	VSS_118	AH32
AN39	VSS_22	VSS_119	AG32
AJ39	VSS_23	VSS_120	AF32
AC39	VSS_24	VSS_121	AE32
AB39	VSS_25	VSS_122	AC32
AA39	VSS_26	VSS_123	AB32
Y39	VSS_27	VSS_124	G32
W39	VSS_28	VSS_125	B32
V39	VSS_29	VSS_126	AY31
T39	VSS_30	VSS_127	AV31
R39	VSS_31	VSS_128	AN31
P39	VSS_32	VSS_129	AJ31
N39	VSS_33	VSS_130	AG31
M39	VSS_34	VSS_131	AB31
L39	VSS_35	VSS_132	Y31
J39	VSS_36	VSS_133	AB30
H39	VSS_37	VSS_134	E30
G39	VSS_38	VSS_135	AT29
F39	VSS_39	VSS_136	AN29
D39	VSS_40	VSS_137	AB29
AT38	VSS_41	VSS_138	T29
AM38	VSS_42	VSS_139	N29
AH38	VSS_43	VSS_140	K29
AG38	VSS_44	VSS_141	G29
AF38	VSS_45	VSS_142	E29
AE38	VSS_46	VSS_143	C29
C38	VSS_47	VSS_144	B29
AK37	VSS_48	VSS_145	A29
AH37	VSS_49	VSS_146	BA28
AB37	VSS_50	VSS_147	AW28
AA37	VSS_51	VSS_148	AU28
Y37	VSS_52	VSS_149	AP28
W37	VSS_53	VSS_150	AM28
V37	VSS_54	VSS_151	AD28
T37	VSS_55	VSS_152	AC28
R37	VSS_56	VSS_153	W28
P37	VSS_57	VSS_154	J28
N37	VSS_58	VSS_155	E28
M37	VSS_59	VSS_156	AP27
L37	VSS_60	VSS_157	AM27
J37	VSS_61	VSS_158	AK27
H37	VSS_62	VSS_159	J27
G37	VSS_63	VSS_160	G27
F37	VSS_64	VSS_161	F27
D37	VSS_65	VSS_162	C27
AY36	VSS_66	VSS_163	B27
AW36	VSS_67	VSS_164	AN26
AN36	VSS_68	VSS_165	M26
AH36	VSS_69	VSS_166	K26
AG36	VSS_70	VSS_167	F26
AF36	VSS_71	VSS_168	D26
AE36	VSS_72	VSS_169	AK25
AC36	VSS_73	VSS_170	P25
C36	VSS_74	VSS_171	K25
B36	VSS_75	VSS_172	H25
BA35	VSS_76	VSS_173	E25
AV35	VSS_77	VSS_174	D25
AR35	VSS_78	VSS_175	A25
AH35	VSS_79	VSS_176	BA24
AB35	VSS_80	VSS_177	AU24
AA35	VSS_81	VSS_178	AL24
Y35	VSS_82	VSS_179	AW23
W35	VSS_83		
V35	VSS_84		
T35	VSS_85		
R35	VSS_86		
P35	VSS_87		
N35	VSS_88		
M35	VSS_89		
L35	VSS_90		
J35	VSS_91		
H35	VSS_92		
G35	VSS_93		
F35	VSS_94		
D35	VSS_95		
AN34	VSS_96		

LEMENU

U1200
945GM
NB
BGA
(10 OF 10)

VSS

AT23	VSS_180	VSS_273	J11
AN23	VSS_181	VSS_274	D11
AM23	VSS_182	VSS_275	B11
AH23	VSS_183	VSS_276	AV10
AC23	VSS_184	VSS_277	AP10
W23	VSS_185	VSS_278	AL10
K23	VSS_186	VSS_279	AJ10
J23	VSS_187	VSS_280	AG10
F23	VSS_188	VSS_281	AC10
C23	VSS_189	VSS_282	W10
AA22	VSS_190	VSS_283	U10
K22	VSS_191	VSS_284	BA9
G22	VSS_192	VSS_285	AW9
F22	VSS_193	VSS_286	AR9
E22	VSS_194	VSS_287	AH9
D22	VSS_195	VSS_288	AB9
A22	VSS_196	VSS_289	Y9
BA21	VSS_197	VSS_290	R9
AV21	VSS_198	VSS_291	G9
AR21	VSS_199	VSS_292	E9
AN21	VSS_200	VSS_293	A9
AL21	VSS_201	VSS_294	AG8
AB21	VSS_202	VSS_295	AD8
Y21	VSS_203	VSS_296	AA8
P21	VSS_204	VSS_297	U8
K21	VSS_205	VSS_298	K8
J21	VSS_206	VSS_299	C8
H21	VSS_207	VSS_300	BA7
C21	VSS_208	VSS_301	AV7
AW20	VSS_209	VSS_302	AP7
AR20	VSS_210	VSS_303	AL7
AM20	VSS_211	VSS_304	AJ7
AA20	VSS_212	VSS_305	AH7
K20	VSS_213	VSS_306	AF7
B20	VSS_214	VSS_307	AC7
A20	VSS_215	VSS_308	R7
AN19	VSS_216	VSS_309	G7
AC19	VSS_217	VSS_310	D7
W19	VSS_218	VSS_311	AG6
K19	VSS_219	VSS_312	AD6
G19	VSS_220	VSS_313	AB6
C19	VSS_221	VSS_314	Y6
AH18	VSS_222	VSS_315	U6
P18	VSS_223	VSS_316	N6
H18	VSS_224	VSS_317	K6
D18	VSS_225	VSS_318	H6
A18	VSS_226	VSS_319	B6
AY17	VSS_227	VSS_320	AV5
AR17	VSS_228	VSS_321	AF5
AP17	VSS_229	VSS_322	AD5
AM17	VSS_230	VSS_323	AY4
AK17	VSS_231	VSS_324	AR4
AV16	VSS_232	VSS_325	AP4
AN16	VSS_233	VSS_326	AL4
AL16	VSS_234	VSS_327	AJ4
J16	VSS_235	VSS_328	Y4
F16	VSS_236	VSS_329	U4
C16	VSS_237	VSS_330	R4
AN15	VSS_238	VSS_331	J4
AM15	VSS_239	VSS_332	F4
AK15	VSS_240	VSS_333	C4
N15	VSS_241	VSS_334	AY3
M15	VSS_242	VSS_335	AW3
L15	VSS_243	VSS_336	AV3
B15	VSS_244	VSS_337	AL3
A15	VSS_245	VSS_338	AH3
BA14	VSS_246	VSS_339	AG3
AT14	VSS_247	VSS_340	AF3
AK14	VSS_248	VSS_341	AD3
AD14	VSS_249	VSS_342	AC3
AA14	VSS_250	VSS_343	AA3
U14	VSS_251	VSS_344	G3
K14	VSS_252	VSS_345	AT2
H14	VSS_253	VSS_346	AR2
E14	VSS_254	VSS_347	AP2
AV13	VSS_255	VSS_348	AK2
AR13	VSS_256	VSS_349	AJ2
AN13	VSS_257	VSS_350	AD2
AM13	VSS_258	VSS_351	AB2
AL13	VSS_259	VSS_352	Y2
AG13	VSS_260	VSS_353	U2
P13	VSS_261	VSS_354	T2
F13	VSS_262	VSS_355	N2
D13	VSS_263	VSS_356	J2
B13	VSS_264	VSS_357	H2
AY12	VSS_265	VSS_358	F2
AC12	VSS_266	VSS_359	C2
K12	VSS_267	VSS_360	AL1
H12	VSS_268		
E12	VSS_269		
AD11	VSS_270		
AA11	VSS_271		
Y11	VSS_272		

NB Grounds

SYNC_MASTER=NB SYNC_DATE=07/25/2005

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III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A

SCALE	SHT	OF
NONE	18	79

Power Interface

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

IN	=PP1V05_S0_FSB_NB	12A7 12B7 12C2 33B8 33C7 33C8 64D6
IN	=PPVCORE_S0_NB	16C8 16D3 19C8 64D6
IN	=PP1V05_S0_NB	19D1 64C6
IN	=PP1V05_S0_NB_VTT	17D3 19B5 64C6
IN	=PP1V5_S0_NB	19C1 64C6
IN	=PP1V5_S0_NB_PCIE	13D2 64C6
IN	=PP1V5_S0_NB_PLL	19C6 64C6
IN	=PP1V5_S0_NB_TVDAC	19A8 64C6
IN	=PP1V5_S0_NB_VCCD_HMPLL	17C6 64C6
IN	=PP1V5_S0_NB_VCCD_LVDS	17C6 19B8 64C6
IN	=PP1V5_S0_NB_VCCAUX	16D1 17B6 19B6 64C6
IN	=PP1V8_S3_MEM_NB	14C2 16B6 28D2 29D2 61C2 64C6
IN	=PP2V5_S0_NB_CRTDAC	19D4 64B6
IN	=PP2V5_S0_NB_VCCSYNC	17D6 19B6 64B6
IN	=PP2V5_S0_NB_VCC_TXLVDS	17D6 19B8 64B6
IN	=PP2V5_S0_NB_VCCA_3GBG	17D6 19B7 64B6
IN	=PP2V5_S0_NB_VCCA_LVDS	17C6 19D1 64B6
IN	=PP3V3_S0_NB	14C7 14D6 28A4 28B4 64A6
IN	=PP3V3_S0_NB_VCC_HV	17C6 19B7 64B6
IN	=PP5V_S0_NB_TVDAC	19C4 64D3

MCH DISPLAY PLL POWER LDO

64B6 =PP2V5_S0_NB_DISP_PLL

CRITICAL
U1900
TPS73115
SOT23-5
IN → OUT → PP1V5_S0_DPLL
EN → NR/FB → TPS73115_NR
GND

C1950 1UF 10% 6.3V CERM 402
C1951 0.01uF 10% 16V CERM 402
C1952 10uF 20% 6.3V X5R 603

MCH VCCA_DPLLA FILTER
(MCH DISPLAY A PLL 1.5V PWR)

R1950 0 5% 1/10W MF-LF 402
PP1V5_S0_NB_VCCA_DPLLA 17C6
VOLTAGE=1.5V
MIN_LINE_WIDTH=1.0 mm
MIN_NECK_WIDTH=1.0 mm
C1953 0.1uF 20% 10V CERM 402

GMCH VCCA_DPLL_B FILTER
(MCH DISPLAY B PLL 1.5V PWR)

R1951 0 5% 1/10W MF-LF 402
PP1V5_S0_NB_VCCA_DPLLB 17C6
VOLTAGE=1.5V
MIN_LINE_WIDTH=1.0 mm
MIN_NECK_WIDTH=1.0 mm
C1954 0.1uF 20% 10V CERM 402

Layout Note:
THESE 4 0.1UF CAPS SHOULD
be within 5 mm of NB edge

MCH VCCA_LVDS FILTER
(MCH LVDS ANALOG 2.5V PWR)

=PP2V5_S0_NB_VCCA_LVDS 17C6 19C7 64B6

Layout Note:
This 0.1uF cap should
be within 5 mm of NB edge

C1980 0.1uF 20% 10V CERM 402
C1981 0.01uF 10% 16V CERM 402
GND_NB_VSSA_LVDS 17C6

Layout Note: Route to caps, then GND

64B6 19D7 =PP2V5_S0_NB_CRTDAC
R1985 10 1% 1/16W MF-LF 402
PP2V5_S0_NB_CRTDAC_FOLLOW
VOLTAGE=2.5V
MIN_LINE_WIDTH=1.0 mm
MIN_NECK_WIDTH=1.0 mm
D1986 BAT54DW SOT-363 =PP1V05_S0_NB 19D7 64C6

L1985 180-OHM-1.5A 0603
PP2V5_S0_NB_CRTDAC_F

MCH VCCA_CRTDAC BYPASS
(MCH CRTDAC ANALOG 2.5V PWR)

C1986 22000pF-1000mA 16V NFM18
PP2V5_S0_NB_VCCA_CRTDAC 17D6
VOLTAGE=2.5V
MIN_LINE_WIDTH=1.0 mm
MIN_NECK_WIDTH=1.0 mm
C1985 0.1uF 20% 10V CERM 402

Layout Note:
These 2 caps should be
within 6.35 mm of NB edge

GND_NB_VSSA_CRTDAC 17D6

Layout Note: Route to caps, then GND

GMCH VCCA_HPLL FILTER
(HOST PLL 1.5V PWR)

64C6 19D7 =PP1V5_S0_NB_PLL
L1934 FERR-120-OHM-0.2A 0603
PP1V5_S0_NB_VCCA_HPLL 17C6
VOLTAGE=1.5V
MIN_LINE_WIDTH=1.0 mm
MIN_NECK_WIDTH=1.0 mm
CRITICAL
C1934 22UF 20% 6.3V CERM-X5R 805
C1935 0.1uF 20% 10V CERM 402

GMCH VCCA_MPLL FILTER
(MCH MEMORY PLL 1.5V PWR)

L1936 FERR-120-OHM-0.2A 0603
PP1V5_S0_NB_VCCA_MPLL 17C6
VOLTAGE=1.5V
MIN_LINE_WIDTH=1.0 mm
MIN_NECK_WIDTH=1.0 mm
CRITICAL
C1936 22UF 20% 6.3V CERM-X5R 805
C1937 0.1uF 20% 10V CERM 402

CRITICAL
U1901
MM157
SOT23-5-LF
64D3 19C7 =PP5V_S0_NB_TVDAC
VIN → VOUT → PP3V3_S0_NB_TVDAC
CONT → NOISE → MM1573DN_NR
GND

C1940 1UF 10% 6.3V CERM 402
C1941 0.01uF 10% 16V CERM 402
C1942 1UF 10% 6.3V CERM 402

R1990 10 1% 1/16W MF-LF 402
PP3V3_S0_NB_TVDAC_FOLLOW
VOLTAGE=3.3V
MIN_LINE_WIDTH=1.0 mm
MIN_NECK_WIDTH=1.0 mm
D1986 BAT54DW SOT-363 =PP1V5_S0_NB 19D7 64C6

L1990 180-OHM-1.5A 0603
PP3V3_S0_NB_TVDAC_F

MCH VCCA_TVDACC FILTER
(MCH TV OUT CHANNEL A 3.3V PWR)

C1992 22000pF-1000mA 16V NFM18
PP3V3_S0_NB_VCCA_TVDACA 17C6
VOLTAGE=3.3V
MIN_LINE_WIDTH=1.0 mm
MIN_NECK_WIDTH=1.0 mm
C1990 10uF 20% 6.3V X5R 603
C1991 0.1uF 20% 10V CERM 402

MCH VCCA_TVDACC FILTER
(MCH TV OUT CHANNEL B 3.3V PWR)

C1994 22000pF-1000mA 16V NFM18
PP3V3_S0_NB_VCCA_TVDACB 17C6
VOLTAGE=3.3V
MIN_LINE_WIDTH=1.0 mm
MIN_NECK_WIDTH=1.0 mm
C1993 0.1uF 20% 10V CERM 402

Layout Note:
These 8 caps should be
within 6.35 mm of NB edge

MCH VCCA_TVDACC FILTER
(MCH TV OUT CHANNEL C 3.3V PWR)

C1996 22000pF-1000mA 16V NFM18
PP3V3_S0_NB_VCCA_TVDACC 17C6
VOLTAGE=3.3V
MIN_LINE_WIDTH=1.0 mm
MIN_NECK_WIDTH=1.0 mm
C1995 0.1uF 20% 10V CERM 402

MCH VCCA_TVBG FILTER
(MCH TV DAC BAND GAP 3.3V PWR)

C1998 22000pF-1000mA 16V NFM18
PP3V3_S0_NB_VCCA_TVBG 17C6
VOLTAGE=3.3V
MIN_LINE_WIDTH=1.0 mm
MIN_NECK_WIDTH=1.0 mm
C1997 0.1uF 20% 10V CERM 402

GND_NB_VSSA_TVBG 17C6

Layout Note: Route to caps, then GND

GMCH CORE PWR 1.05V BYPASS
THIS 470UF FOR GMCH CORE 1.05V

19D7 16D3 =PPVCORE_S0_NB

CRITICAL
C1900 470UF 20% 2.5V TANT D2T
C1902 10uF 20% 6.3V X5R 603
C1903 10uF 20% 6.3V X5R 603
C1904 1UF 10% 6.3V CERM 402
C1905 0.22uF 20% 6.3V X5R 402
C1906 0.22uF 20% 6.3V X5R 402
C1907 0.22uF 20% 6.3V X5R 402

GMCH VCCD_LVDS BYPASS
(MCH LVDS DIGITAL 1.5V PWR)

64C6 19D7 17C6 =PP1V5_S0_NB_VCCD_LVDS
C1910 10uF 20% 6.3V X5R 603
C1911 0.1uF 20% 10V CERM 402

945 EDS: 5 mOhm, 1nH (1210?)

GMCH VCCTX_LVDS BYPASS
(MCH LVDS DATA/CLK TX 2.5V PWR)

64B6 19D7 17D6 =PP2V5_S0_NB_VCC_TXLVDS
C1912 4.7uF 20% 6.3V CERM 603
C1913 0.1uF 20% 10V CERM 402

945 EDS: 1210?

MCH VCC_HV BYPASS
(MCH HV BUFFER 3.3V PWR)

64B6 19C7 17C6 =PP3V3_S0_NB_VCC_HV
C1914 10uF 20% 6.3V X5R 603
C1915 0.1uF 20% 10V CERM 402

MCH VCCSYNC BYPASS
(MCH H/V SYNC 2.5V PWR)

19D7 17D6 64B6 =PP2V5_S0_NB_VCCSYNC
C1917 0.1uF 20% 10V CERM 402

MCH VCCA_3GBG BYPASS
(MCH PCIE/DMI BAND GAP 2.5V PWR)

64B6 19D7 17D6 =PP2V5_S0_NB_VCCA_3GBG
C1916 0.1uF 20% 10V CERM 402

GMCH VCCAUX FILTER
(MCH DDR DLL&IO, FSB HSIO&IO PWR 1.5V)

64C6 19D7 17B6 16D1 =PP1V5_S0_NB_VCCAUX
C1918 0.1uF 20% 10V CERM 402

64C3 29D6 29D4 29B2 28D6 28D4 28B2 19C8 =PP1V8_S3_MEM
64C3 29D6 29D4 =PP1V8_S3_MEM

PLACE THOSE COMPONENT
CLOSE TO GMCH

R1988 1K 1% 1/16W MF-LF 402
MEM_VREF_NB_0 14C2
VOLTAGE=0.9V
MIN_LINE_WIDTH=0.25 mm
MIN_NECK_WIDTH=0.25 mm
R1989 1K 1% 1/16W MF-LF 402

R1986 1K 1% 1/16W MF-LF 402
MEM_VREF_NB_1 14C2
VOLTAGE=0.9V
MIN_LINE_WIDTH=0.25 mm
MIN_NECK_WIDTH=0.25 mm
R1987 1K 1% 1/16W MF-LF 402

91NH, 20%, 20MOHM, 1.5A (1210 TYP)

GMCH VCC3G FILTER
(PCI-E/DMI ANALOG 1.5V PWR)

CRITICAL
L1970 91nH 1210
64C6 =PP1V5_S0_NB_3G
PP1V5_S0_NB_VCC3G 17D6
VOLTAGE=1.5V
MIN_LINE_WIDTH=1.0 mm
MIN_NECK_WIDTH=1.0 mm

Layout Note:
Place L and C
close to MCH

CRITICAL
C1970 220UF 20% 2.5V POLY SMB2
C1971 10uF 20% 6.3V X5R 603
C1972 10uF 20% 6.3V X5R 603

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

1uH, 20%

GMCH VCCA_3GPLL FILTER
(3GIO PLL 1.5V PWR)

L1975 1.0UH-220MA-0.12-OHM 0805
64C6 =PP1V5_S0_NB_3GPLL
PP1V5_S0_NB_3GPLL_F
VOLTAGE=1.5V
MIN_LINE_WIDTH=1.0 mm
MIN_NECK_WIDTH=1.0 mm
R1975 0.51 1% 1/16W MF-LF 402
PP1V5_S0_NB_VCCA_3GPLL 17D6
VOLTAGE=1.5V
MIN_LINE_WIDTH=1.0 mm
MIN_NECK_WIDTH=1.0 mm
C1975 10uF 20% 6.3V X5R 603
C1976 0.1uF 20% 10V CERM 402

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

GND_NB_VSSA_3GBG 17D6

Layout Note: Route to caps, then GND

64C6 19D7 =PP1V5_S0_NB_TVDAC
C1921 22000pF-1000mA 16V NFM18
PP1V5_S0_NB_VCCD_TVDAC 17C6
VOLTAGE=1.5V
MIN_LINE_WIDTH=1.0 mm
MIN_NECK_WIDTH=1.0 mm
C1920 0.1uF 20% 10V CERM 402

Layout Note:
These 4 caps should be
within 6.35 mm of NB edge

L1922 180-OHM-1.5A 0603
PP1V5_S0_NB_QTVDAC
C1923 22000pF-1000mA 16V NFM18
PP1V5_S0_NB_VCCD_QTVDAC 17B6
VOLTAGE=1.5V
MIN_LINE_WIDTH=1.0 mm
MIN_NECK_WIDTH=1.0 mm
C1922 0.1uF 20% 10V CERM 402

GMCH VCCSAUX BYPASS
(MCH VTT BYPASS)

64C6 19D7 17D3 =PP1V05_S0_NB_VTT
(SHARE C0940 470UF)

C1965 4.7uF 20% 6.3V CERM 603
C1966 2.2uF 20% 6.3V CERM1 603

Layout Note:
Place in cavity

C1967 0.22uF 20% 6.3V X5R 402

Layout Note:
Place on the edge

NB (GM) Decoupling

SYNC_MASTER=NB SYNC_DATE=06/22/2005

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SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 19 OF 79	

NB_CFG<3>	RESERVED

NB_CFG<4>	RESERVED

14C6 NB_CFG<5>
Internal pull-up

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

PROBABLY NOT NEEDED

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

NB_CFG<6>	RESERVED

14C6 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

14C6 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

14C6 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 14C7 14D6 19C7 20A4 20B4 64A6
NBCFG_VCC_1V5
R2058 2.2K 5% 1/16W MF-LF 402

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

14C6 NB_CFG<18>
Internal pull-down

=PP3V3_S0_NB 14C7 14D6 19C7 20A4 20B4 64A6
NBCFG_DMI_REVERSE
R2059 2.2K 5% 1/16W MF-LF 402

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

14C6 NB_CFG<19>
Internal pull-down

945 External Design Spec says reserved

=PP3V3_S0_NB 14C7 14D6 19C7 20B4 64A6
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

14B6 NB_CFG<20>
Internal pull-down

PROBABLY NOT NEEDED

NB Config Straps

SYNC_MASTER=NB SYNC_DATE=06/28/2005

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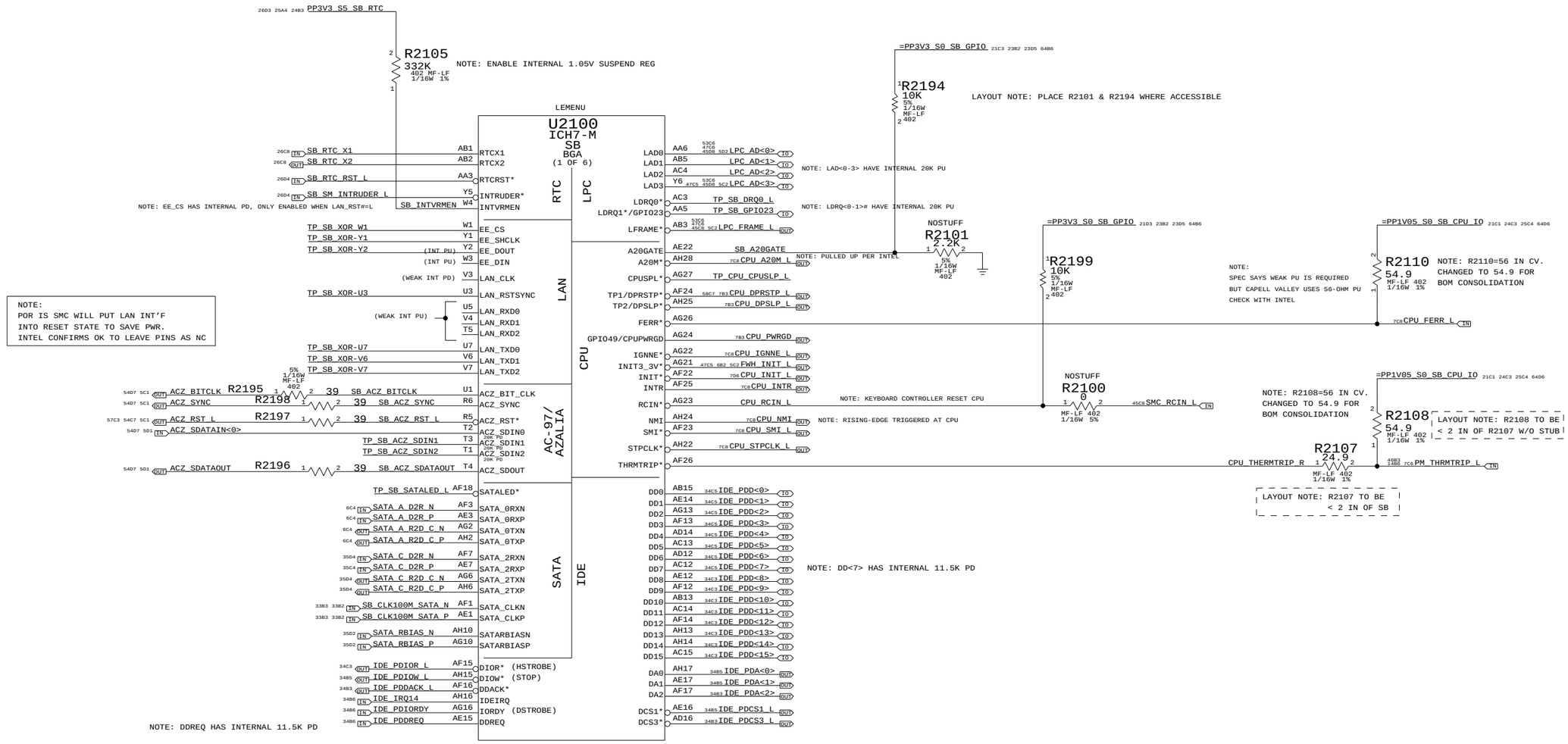
SIZE	DRAWING NUMBER	REV.
D	051-7374	A

SCALE	SHT	OF
NONE	20	79



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

SB: 1 OF 4

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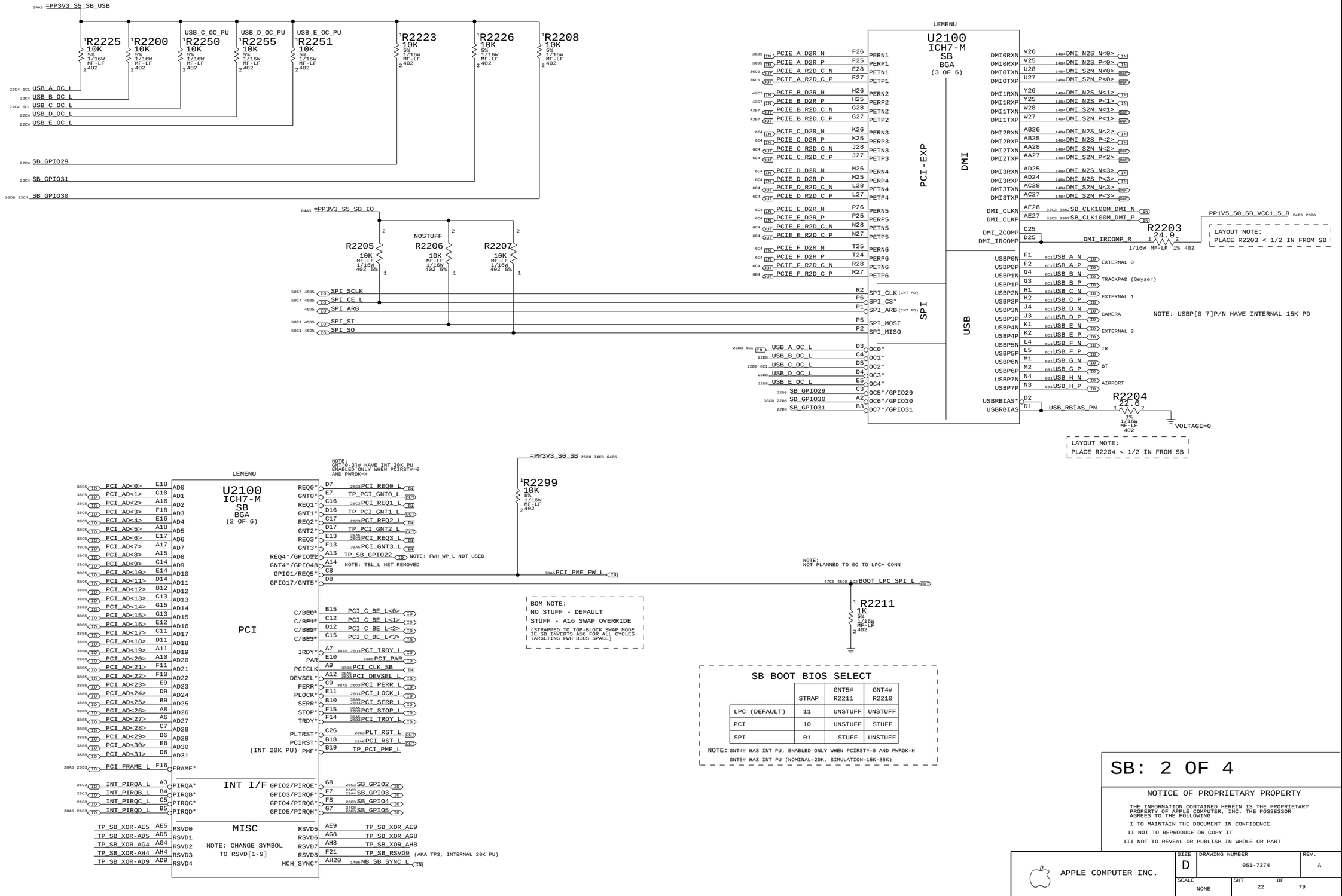
SCALE: NONE	SHT 21 OF 79	


=PP3V3_S5_SB_USB
R2225 10K 5% 1/16W MF-LF 402
R2200 10K 5% 1/16W MF-LF 402
USB_C_OC_PU
R2250 10K 5% 1/16W MF-LF 402
USB_D_OC_PU
R2255 10K 5% 1/16W MF-LF 402
USB_E_OC_PU
R2251 10K 5% 1/16W MF-LF 402
R2223 10K 5% 1/16W MF-LF 402
R2226 10K 5% 1/16W MF-LF 402
R2208 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_GPIO31
SB_GPIO30
=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
LEMENU
U2100
ICH7-M
SB
BGA
(3 OF 6)
PCIE_A_D2R_N
PCIE_A_D2R_P
PCIE_A_R2D_C_N
PCIE_A_R2D_C_P
PCIE_B_D2R_N
PCIE_B_D2R_P
PCIE_B_R2D_C_N
PCIE_B_R2D_C_P
PCIE_C_D2R_N
PCIE_C_D2R_P
PCIE_C_R2D_C_N
PCIE_C_R2D_C_P
PCIE_D_D2R_N
PCIE_D_D2R_P
PCIE_D_R2D_C_N
PCIE_D_R2D_C_P
PCIE_E_D2R_N
PCIE_E_D2R_P
PCIE_E_R2D_C_N
PCIE_E_R2D_C_P
PCIE_F_D2R_N
PCIE_F_D2R_P
PCIE_F_R2D_C_N
PCIE_F_R2D_C_P
PCI-EXP
DMI
DMI0RXN
DMI0RXP
DMI0TXN
DMI0TXP
DMI1RXN
DMI1RXP
DMI1TXN
DMI1TXP
DMI2RXN
DMI2RXP
DMI2TXN
DMI2TXP
DMI3RXN
DMI3RXP
DMI3TXN
DMI3TXP
DMI_CLKN
DMI_CLKP
DMI_ZCOMP
DMI_IRCOMP
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)
SPI_CS*
SPI_ARB (INT PD)
SPI_MOSI
SPI_MISO
USB
USBPON
USBP0P
USBP1N
USBP1P
USBP2N
USBP2P
USBP3N
USBP3P
USBP4N
USBP4P
USBP5N
USBP5P
USBP6N
USBP6P
USBP7N
USBP7P
USBRBIAS*
USBRBIAS
USB_RBIAS_PN
R2204 22.6 1% 1/16W MF-LF 402
VOLTAGE=0
LAYOUT NOTE: PLACE R2204 < 1/2 IN FROM SB
NOTE: USBP[0-7]P/N HAVE INTERNAL 15K PD
EXTERNAL 0
TRACKPAD (Geyser)
EXTERNAL 1
CAMERA
EXTERNAL 2
IR
BT
AIRPORT
USB_A_N
USB_A_P
USB_B_N
USB_B_P
USB_C_N
USB_C_P
USB_D_N
USB_D_P
USB_E_N
USB_E_P
USB_F_N
USB_F_P
USB_G_N
USB_G_P
USB_H_N
USB_H_P
OC0*
OC1*
OC2*
OC3*
OC4*
OC5*/GPIO29
OC6*/GPIO30
OC7*/GPIO31
SB_GPIO29
SB_GPIO30
SB_GPIO31
NOTE: GNT[0-3]# HAVE INT 20K PU ENABLED ONLY WHEN PCIRST#=0 AND PWROK=H
=PP3V3_S0_SB
R2299 10K 5% 1/16W MF-LF 402
LEMENU
U2100
ICH7-M
SB
BGA
(2 OF 6)
PCI_AD<0>
PCI_AD<1>
PCI_AD<2>
PCI_AD<3>
PCI_AD<4>
PCI_AD<5>
PCI_AD<6>
PCI_AD<7>
PCI_AD<8>
PCI_AD<9>
PCI_AD<10>
PCI_AD<11>
PCI_AD<12>
PCI_AD<13>
PCI_AD<14>
PCI_AD<15>
PCI_AD<16>
PCI_AD<17>
PCI_AD<18>
PCI_AD<19>
PCI_AD<20>
PCI_AD<21>
PCI_AD<22>
PCI_AD<23>
PCI_AD<24>
PCI_AD<25>
PCI_AD<26>
PCI_AD<27>
PCI_AD<28>
PCI_AD<29>
PCI_AD<30>
PCI_AD<31>
PCI_FRAME_L
PCI
REQ0*
GNT0*
REQ1*
GNT1*
REQ2*
GNT2*
REQ3*
GNT3*
REQ4*/GPIO22
GNT4*/GPIO48
GPIO1/REQ5*
GPIO17/GNT5*
PCI_REQ0_L
TP_PCI_GNT0_L
PCI_REQ1_L
TP_PCI_GNT1_L
PCI_REQ2_L
TP_PCI_GNT2_L
PCI_REQ3_L
PCI_GNT3_L
TP_SB_GPIO22
NOTE: FWH_WP_L NOT USED
NOTE: TBL_L NET REMOVED
PCI_PME_FW_L
C/BE0*
C/BE1*
C/BE2*
C/BE3*
PCI_C_BE_L<0>
PCI_C_BE_L<1>
PCI_C_BE_L<2>
PCI_C_BE_L<3>
IRDY*
PAR
PCICLK
DEVSEL*
PERR*
PLOCK*
SERR*
STOP*
TRDY*
PLTRST*
PCIRST*
(INT 20K PU) PME*
PCI_IRDY_L
PCI_PAR
PCI_CLK_SB
PCI_DEVSEL_L
PCI_PERR_L
PCI_LOCK_L
PCI_SERR_L
PCI_STOP_L
PCI_TRDY_L
PLT_RST_L
PCI_RST_L
TP_PCI_PME_L
INT I/F
PIRQA*
PIRQB*
PIRQC*
PIRQD*
GPIO2/PIRQE*
GPIO3/PIRQF*
GPIO4/PIRQG*
GPIO5/PIRQH*
INT_PIRQA_L
INT_PIRQB_L
INT_PIRQC_L
INT_PIRQD_L
SB_GPIO2
SB_GPIO3
SB_GPIO4
SB_GPIO5
MISC
RSVD0
RSVD1
RSVD2
RSVD3
RSVD4
NOTE: CHANGE SYMBOL TO RSVD[1-9]
RSVD5
RSVD6
RSVD7
RSVD8
MCH_SYNC*
TP_SB_XOR-AE5
TP_SB_XOR-AD5
TP_SB_XOR-AG4
TP_SB_XOR-AH4
TP_SB_XOR-AD9
TP_SB_XOR_AE9
TP_SB_XOR_AG8
TP_SB_XOR_AH8
TP_SB_RSVD9 (AKA TP3, INTERNAL 20K PU)
NB_SB_SYNC_L
BOM NOTE:
NO STUFF - DEFAULT
STUFF - A16 SWAP OVERRIDE
(STRAPPED TO TOP-BLOCK SWAP MODE IE SB INVERTS A16 FOR ALL CYCLES TARGETING FWH BIOS SPACE)
NOTE: NOT PLANNED TO GO TO LPC+ CONN
BOOT_LPC_SPI_L
R2211 1K 5% 1/16W MF-LF 402
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)
SB: 2 OF 4
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REV. A
SCALE NONE
SHT 22 OF 79

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

=PP3V3_S0_SB_GPIO 21C3 21D3 23B2 64B6

=PP3V3_S5_SB 23A7 23B7 23D8 25C8 64A3

64A3 25C8 23D4 23B7 23A7 =PP3V3_S5_SB

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 NOSTUFF 10K 1/16W 402 MF-LF 5%
R2326 NOSTUFF 10K 1/16W 402 MF-LF 5%
R2323 NO_REBOOT_MODE 1K 1/16W 402 MF-LF 5%

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

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%

LEMENU

U2100
ICH7-M
SB
BGA
(4 OF 6)

SMB
- SMBCLK C22 ← 27D8 SMB_CLK
- SMBDATA B22 ← 27D8 SMB_DATA
- LINKALERT* A26 ← SMB_LINK_ALERT_L
- SMLINK0 B25 ← SMLINK<0>
- SMLINK1 A25 ← SMLINK<1>
- RI* A28 ← PM_RI_L

NOT USED

SPKR (INT WEAK PD) A19 ← SB_SPKR

SYS GPIO / PWR MNGT
- SUS_STAT* A27 ← 53C6 47C5 46D3 45D5 5C2 OUT PM_SUS_STAT_L
- SYS_RST* A22 ← 45C8 26C5 IN PM_SYSRST_L
- GPIO0/BM_BUSY* AB18 ← 14B6 IN PM_BMBUSY_L
- GPIO11/SMBALERT* B23 ← SMB_ALERT_L
  NOTE: RESERVED FOR FUTURE
- GPIO18/STPPCI* AC20 → 32C4 OUT PM_STPPCI_L
- GPIO20/STPCPU* AF21 → 32C4 OUT PM_STPCPU_L
- GPIO26 A21 ← IN SB_GPIO26
- GPIO27 B21 ← 23A6 BIOS_REC
- GPIO28 E23 ← 23A6 FWH_MFG_MODE
- GPIO32/CLKRUN* AG18 ↔ 53C6 47C6 45D5 38A5 5C2 IO PM_CLKRUN_L
- GPIO33/AZ_DOCK_EN* AC19 → TP_AZ_DOCK_EN_L
- GPIO34/AZ_DOCK_RST* U2 → TP_AZ_DOCK_RST_L

RESERVED FOR MOBILE AZALIA DOCKING INT'F

- WAKE* F20 ← 43C6 36C6 IN PCIE_WAKE_L
- SERIRQ AH21 ↔ 53C6 47C5 45C8 5C2 IO INT_SERIRQ
- THERM* AF20 ← 45B8 IN PM_THRM_L
- VRMPWRGD AD22 ← 26A8 IN VR_PWRGD_CK410
- GPIO6 AC21 ↔ IO TP_SB_GPIO6
- GPIO7 AC18 ← SB_RUNTIME_SCI_L
- GPIO8 E21 ← 45B8 IN SMC_EXTSMI_L

R2300 0

45B8 IN SMC_RUNTIME_SCI_L

SATA GPIO
- GPIO21/SATA0GP AF19 → R2302 100 → SB_GPIO21
- GPIO19/SATA1GP AH18 → R2303 100 → SB_GPIO19
- GPIO36/SATA2GP AH19
- GPIO37/SATA3GP AE19 → R2305 100 → SB_GPIO37 → 35D2 SATA_C_DET_L IN

CLKS
- CLK14 AC1 ← 33A6 SB_CLK14P3M_TIMER IN
- CLK48 B2 ← 33C7 SB_CLK48M_USBCTLR IN
- SUSCLK C20 → 68A4 SUS_CLK_SB OUT

SYS GPIO / PWR MNGT
- SLP_S3* B24 → 63A7 63B8 45C5 PM_SLP_S3_L OUT
- SLP_S4* D23 → 63D6 61B8 68C8 45C5 PM_SLP_S4_L OUT
- SLP_S5* F22 → 46D3 45C5 PM_SLP_S5_L OUT
- PWROK AA4 ← 26A6 PM_SB_PWROK IN
- GPIO16/DPRSLPVR AC22 → 58D8 14B7 PM_DPRSLPVR OUT
- TP0/BATLOW* C21 ← NOTE: DPRSLPVR HAS INT 20K PD, ENABLED AT BOOT/RESET FOR STRAPPING FCN
- (INT 20K PU) PWRBTN* C23 ← 45D8 PM_PWRBTN_L IN
- LAN_RST* C19 ← 45D8 PM_LAN_ENABLE IN
  NOTE: SMC WILL DRIVE 0-1-0 TO KEEP LAN INT'F IN RESET STATE TO SAVE PWR
- RSMRST* Y4 ← 45D8 PM_RSMRST_L IN

GPIO
- GPIO9 E20 ↔ 46D6 45B5 SMS_INT_L IN
- GPIO10 A20 ↔ 45D8 SMC_SB_NMI IN
- DEF=GPI GPIO12 F19 → 23B3 PATA_PWR_EN_L OUT
- GPIO13 E19
- DEF=GPI GPIO14 R4 → 23A4 SB_GPIO14 OUT
- GPIO15 E22 ↔ SV_SET_UP 5C2 23B6 47B5
- GPIO24 R3 ↔ CRB_SV_DET 23B6
- GPIO25 D20 TP_SB_GPIO25_DO_NOT_USE
- OD GPIO35 AD21 → 32B4 SB_CLK100M_SATA_OE_L OUT
- GPIO38 AD20 TP_SB_GPIO38 IO
- DEF=GPI GPIO39 AE20 → 23A3 SATA_C_PWR_EN_L OUT

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)

=PP3V3_S5_SB_PM 11B5 26C5 64A3

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

45B8 PM_BATLOW_L IN

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

45D5 SMC_WAKE_SCI_L IN

NOTE: PATA_DET IS ACTUALLY CABLE TYPE DETECT

64A3 25C8 23D8 23D4 23A7 =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 5C2 23C3 47B5
CRB_SV_DET 23C3

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

LAYOUT NOTE:
PLACE R2306-14 WHERE PHYSICALLY ACCESSIBLE

64A3 25C8 23D8 23D4 23B7 =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 23C5
BIOS_REC 23C5

=PP3V3_S0_SB_GPIO 21C3 21D3 23D5 64B6

R2390 10K 5% 1/16W MF-LF 402
R2388 10K 5% 1/16W MF-LF 402

23C3 PATA_PWR_EN_L
23B3 SATA_C_PWR_EN_L

NOSTUFF R2312 0
26C3 22A6 SB_GPIO3 → IDE_RESET_L 34C5

R2315 0
23C3 SB_GPIO14

R2389 15K 5% 1/10W MF-LF 402

R2312,R2315 and R2389 close to SB

SB: 3 OF 4

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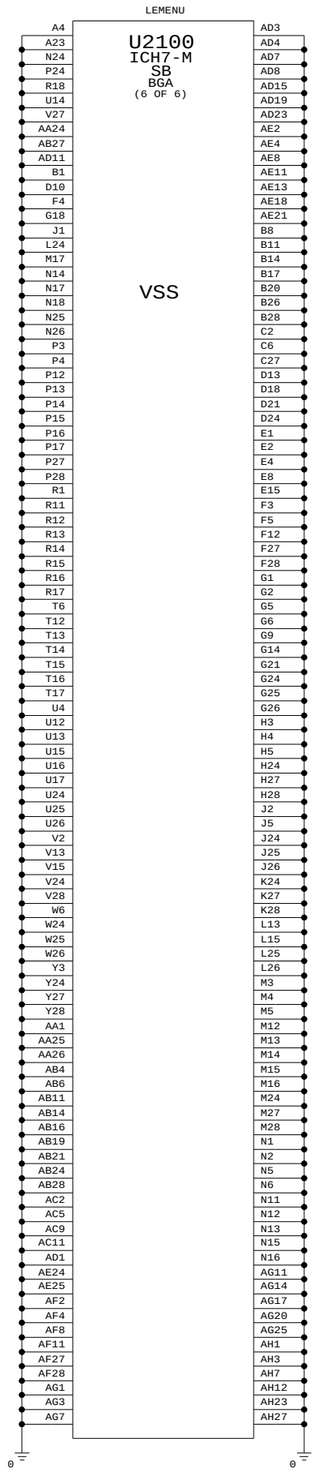
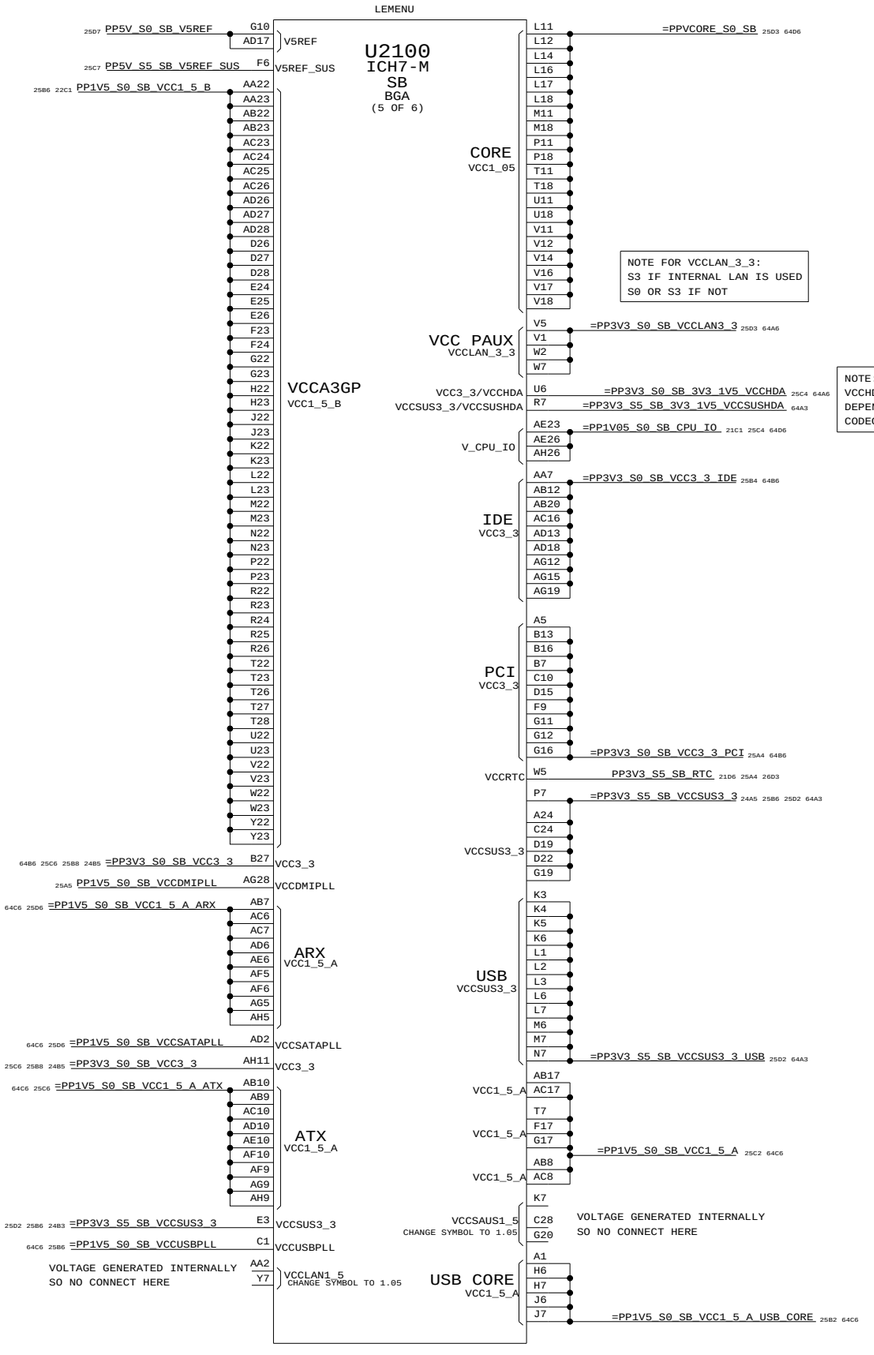
APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 23 OF 79	

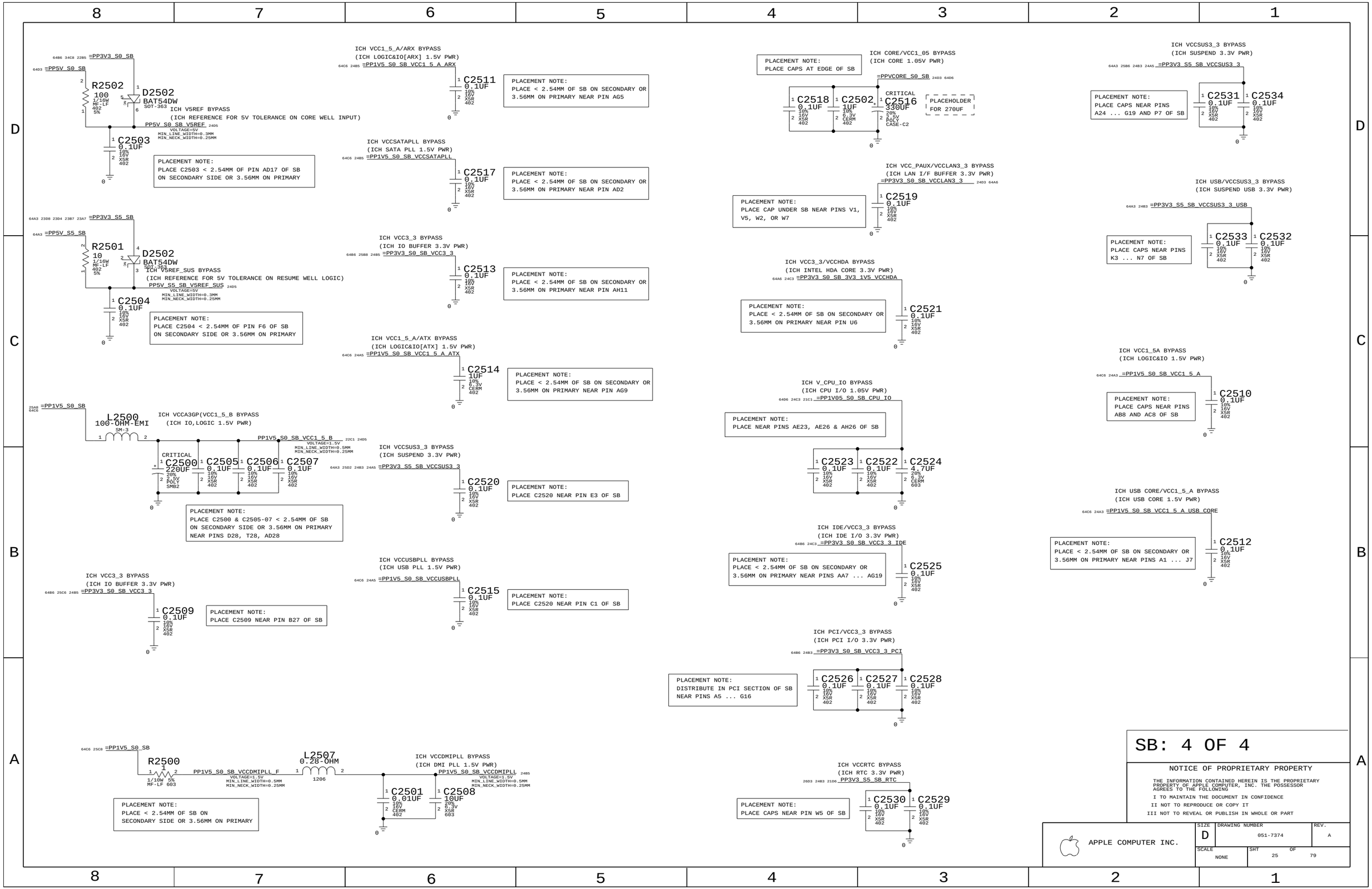




SB: 4 OF 4

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 24 OF 79	


ICH V5REF BYPASS
(ICH REFERENCE FOR 5V TOLERANCE ON CORE WELL INPUT)
PP5V_S0_SB_V5REF
PLACEMENT NOTE:
PLACE C2503 < 2.54MM OF PIN AD17 OF SB
ON SECONDARY SIDE OR 3.56MM ON PRIMARY
ICH V5REF_SUS BYPASS
(ICH REFERENCE FOR 5V TOLERANCE ON RESUME WELL LOGIC)
PP5V_S5_SB_V5REF_SUS
PLACEMENT NOTE:
PLACE C2504 < 2.54MM OF PIN F6 OF SB
ON SECONDARY SIDE OR 3.56MM ON PRIMARY
ICH VCCA3GP(VCC1_5_B BYPASS
(ICH IO,LOGIC 1.5V PWR)
PP1V5_S0_SB_VCC1_5_B
PLACEMENT NOTE:
PLACE C2500 & C2505-07 < 2.54MM OF SB
ON SECONDARY SIDE OR 3.56MM ON PRIMARY
NEAR PINS D28, T28, AD28
ICH VCC3_3 BYPASS
(ICH IO BUFFER 3.3V PWR)
PLACEMENT NOTE:
PLACE C2509 NEAR PIN B27 OF SB
ICH VCCSUS3_3 BYPASS
(ICH SUSPEND 3.3V PWR)
PLACEMENT NOTE:
PLACE C2520 NEAR PIN E3 OF SB
ICH VCCUSBPLL BYPASS
(ICH USB PLL 1.5V PWR)
PLACEMENT NOTE:
PLACE C2520 NEAR PIN C1 OF SB
ICH VCCSATAPLL BYPASS
(ICH SATA PLL 1.5V PWR)
PLACEMENT NOTE:
PLACE < 2.54MM OF SB ON SECONDARY OR
3.56MM ON PRIMARY NEAR PIN AD2
ICH VCC1_5_A/ARX BYPASS
(ICH LOGIC&IO[ARX] 1.5V PWR)
PLACEMENT NOTE:
PLACE < 2.54MM OF SB ON SECONDARY OR
3.56MM ON PRIMARY NEAR PIN AG5
ICH VCC3_3 BYPASS
(ICH IO BUFFER 3.3V PWR)
PLACEMENT NOTE:
PLACE < 2.54MM OF SB ON SECONDARY OR
3.56MM ON PRIMARY NEAR PIN AH11
ICH VCC1_5_A/ATX BYPASS
(ICH LOGIC&IO[ATX] 1.5V PWR)
PLACEMENT NOTE:
PLACE < 2.54MM OF SB ON SECONDARY OR
3.56MM ON PRIMARY NEAR PIN AG9
ICH VCCDMIPLL BYPASS
(ICH DMI PLL 1.5V PWR)
PLACEMENT NOTE:
PLACE < 2.54MM OF SB ON
SECONDARY SIDE OR 3.56MM ON PRIMARY
PLACEMENT NOTE:
PLACE CAPS AT EDGE OF SB
ICH CORE/VCC1_05 BYPASS
(ICH CORE 1.05V PWR)
PLACEMENT NOTE:
PLACE CAP UNDER SB NEAR PINS V1,
V5, W2, OR W7
ICH VCC_PAUX/VCCLAN3_3 BYPASS
(ICH LAN I/F BUFFER 3.3V PWR)
ICH VCC3_3/VCCHDA BYPASS
(ICH INTEL HDA CORE 3.3V PWR)
PLACEMENT NOTE:
PLACE < 2.54MM OF SB ON SECONDARY OR
3.56MM ON PRIMARY NEAR PIN U6
ICH V_CPU_IO BYPASS
(ICH CPU I/O 1.05V PWR)
PLACEMENT NOTE:
PLACE NEAR PINS AE23, AE26 & AH26 OF SB
ICH IDE/VCC3_3 BYPASS
(ICH IDE I/O 3.3V PWR)
PLACEMENT NOTE:
PLACE < 2.54MM OF SB ON SECONDARY OR
3.56MM ON PRIMARY NEAR PINS AA7 ... AG19
ICH PCI/VCC3_3 BYPASS
(ICH PCI I/O 3.3V PWR)
PLACEMENT NOTE:
DISTRIBUTE IN PCI SECTION OF SB
NEAR PINS A5 ... G16
ICH VCCRTC BYPASS
(ICH RTC 3.3V PWR)
PLACEMENT NOTE:
PLACE CAPS NEAR PIN W5 OF SB
ICH VCCSUS3_3 BYPASS
(ICH SUSPEND 3.3V PWR)
PLACEMENT NOTE:
PLACE CAPS NEAR PINS
A24 ... G19 AND P7 OF SB
ICH USB/VCCSUS3_3 BYPASS
(ICH SUSPEND USB 3.3V PWR)
PLACEMENT NOTE:
PLACE CAPS NEAR PINS
K3 ... N7 OF SB
ICH VCC1_5A BYPASS
(ICH LOGIC&IO 1.5V PWR)
PLACEMENT NOTE:
PLACE CAPS NEAR PINS
AB8 AND AC8 OF SB
ICH USB CORE/VCC1_5_A BYPASS
(ICH USB CORE 1.5V PWR)
PLACEMENT NOTE:
PLACE < 2.54MM OF SB ON SECONDARY OR
3.56MM ON PRIMARY NEAR PINS A1 ... J7
SB: 4 OF 4
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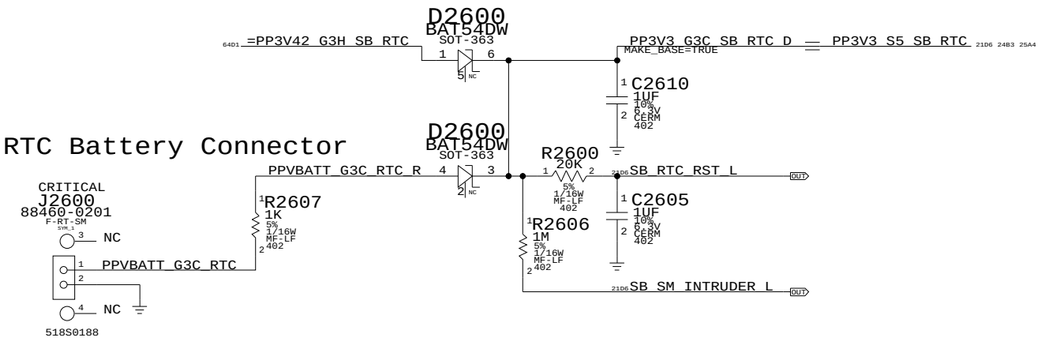
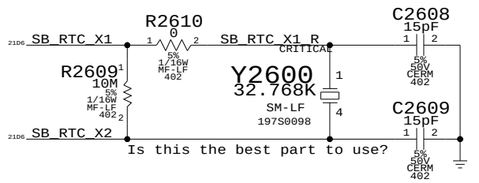
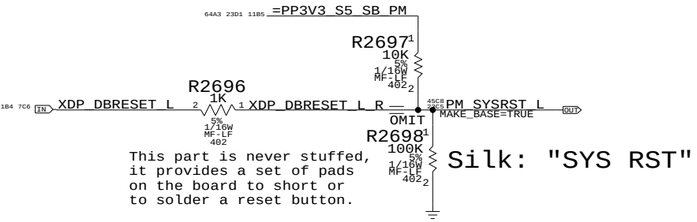
APPLE COMPUTER INC.
SIZE D
DRAWING NUMBER 051-7374
REV. A
SCALE NONE
SHT 25 OF 79

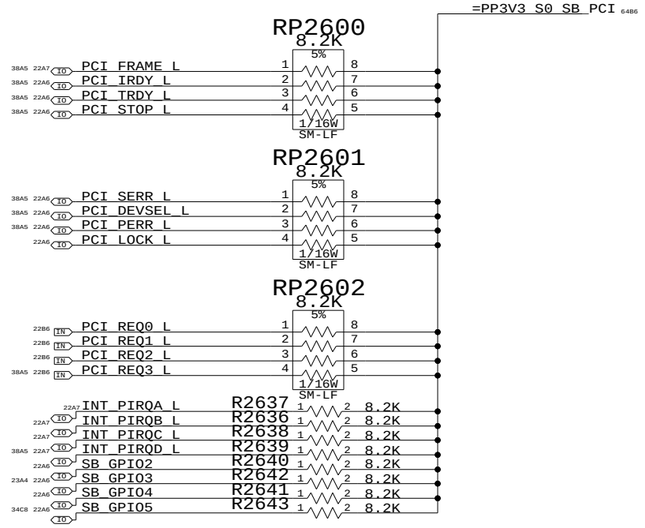
RTC Battery Connector



SB RTC Crystal Circuit

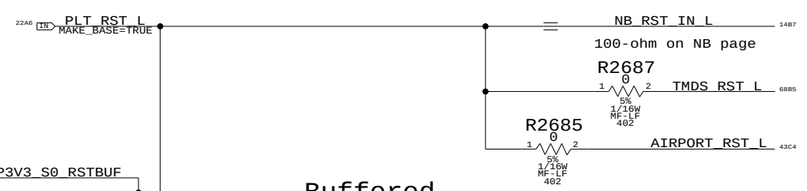




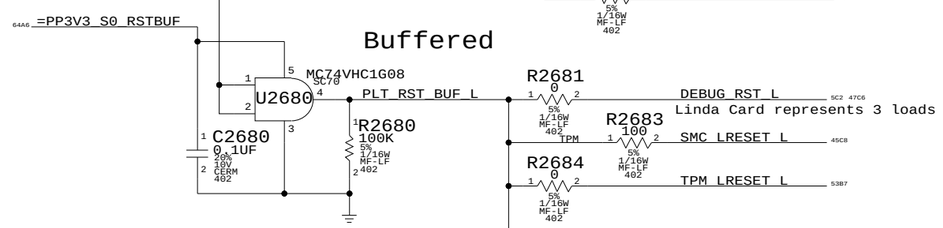


Platform Reset Connections

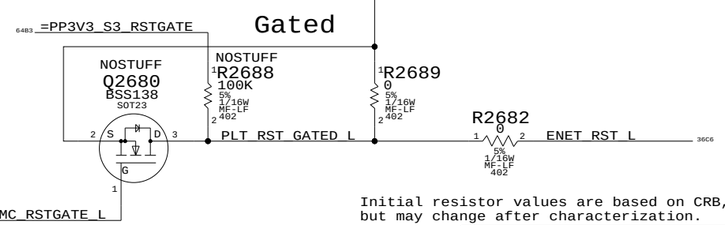
Unbuffered



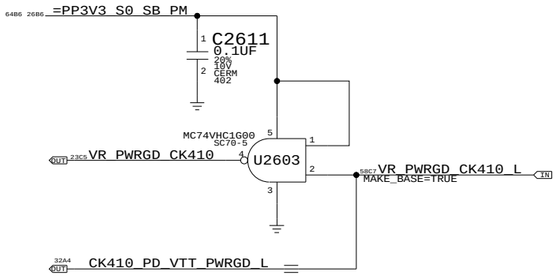
Buffered

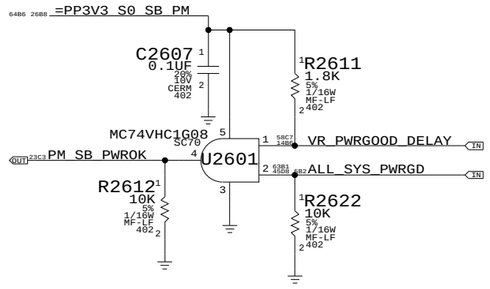


Gated



Initial resistor values are based on CRB,
but may change after characterization.





SB Misc

SYNC_MASTER=NB SYNC_DATE=07/26/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 26 OF 79	

ICH7-M SMBus Connections

64A6 =PP3V3_S0_SMBUS_SB

ICH7-M
U2100
(MASTER)

23D5 SMB_CLK — SMBUS_SB_SCL (MAKE_BASE=TRUE)
23D5 SMB_DATA — SMBUS_SB_SDA (MAKE_BASE=TRUE)

R2700[1] 2.0K 5% 1/16W MF-LF 402 2
R2701[1] 2.0K 5% 1/16W MF-LF 402 2

Clock Chip
CY28445-5: U3301
(Write: 0xD2 Read: 0xD3)

SMB_CK410_CLK 32B6
SMB_CK410_DATA 32B6

SO-DIMM "A"
J2800
(Write: 0xA0 Read: 0xA1)

=I2C_SODIMMA_SCL 28A6
=I2C_SODIMMA_SDA 28A6

SO-DIMM "B"
J2900
(Write: 0xA4 Read: 0xA5)

=I2C_SODIMMB_SCL 29A6
=I2C_SODIMMB_SDA 29A6

AIRPORT
J5300

=SMB_AIRPORT_CLK 43B4
=SMB_AIRPORT_DATA 43B4

GEYSER
J4900

=SMB_GEYSER_CLK 40C4
=SMB_GEYSER_DATA 40C4

SMC "0" SMBus Connections

64A6 =PP3V3_S0_SMBUS_SMC_0

SMC
U5800
(MASTER)

45C8 SMB_0_CLK — SMBUS_SMC_0_SCL (MAKE_BASE=TRUE)
45C5 SMB_0_DATA — SMBUS_SMC_0_SDA (MAKE_BASE=TRUE)

R2750[1] 2.0K 5% 1/16W MF-LF 402 2
R2751[1] 2.0K 5% 1/16W MF-LF 402 2

SKIN TEMP
MAX6695: U6250

THRM_DIMM1_SMB_CLK 49B4
THRM_DIMM1_SMB_DATA 49B4

SMC "MLB" SMBus Connections

64A6 =PP3V3_S0_SMBUS_SMC_MLB

SMC
U5800
(MASTER)

45B5 SMB_MLB_CLK — 5B2 SMBUS_SMC_MLB_SCL (MAKE_BASE=TRUE)
45B5 SMB_MLB_DATA — 5B2 SMBUS_SMC_MLB_SDA (MAKE_BASE=TRUE)

R2760[1] 2.0K 5% 1/16W MF-LF 402 2
R2761[1] 2.0K 5% 1/16W MF-LF 402 2

CPU Temp
ADT7461: U1001
(Write: 0x98 Read: 0x99)

SMB_THRM_CLK 10B3
SMB_THRM_DATA 10B3

Top-Case
U6200
(SEE TABLE)

THRM_DIMM0_SMB_CLK 49C4
THRM_DIMM0_SMB_DATA 49C4

SMC "RMT" SMBus Connections

NOTE: SMC RMT bus remains powered and may be active in S3 state

64B3 =PP3V3_S3_SMBUS_SMC_RMT

SMC
U5800
(MASTER)

45B9 SMB_RMT_CLK — SMBUS_SMC_RMT_SCL (MAKE_BASE=TRUE)
45B9 SMB_RMT_DATA — SMBUS_SMC_RMT_SDA (MAKE_BASE=TRUE)

R2770[1] 2.0K 5% 1/16W MF-LF 402 2
R2771[1] 2.0K 5% 1/16W MF-LF 402 2

Top-Case SMBus Connections:

AMBIENT THERMAL
ATS/ALS

=SMBUS_ATS_SCL 67A2
=SMBUS_ATS_SDA 67A2

SMC "Battery A" SMBus Connections

64D1 =PP3V42_G3H_SMBUS_SMC_BSA

SMC
U5800
(MASTER)

45B9 SMB_BSA_CLK — SMBUS_SMC_BSA_SCL (MAKE_BASE=TRUE)
45B9 SMB_BSA_DATA — SMBUS_SMC_BSA_SDA (MAKE_BASE=TRUE)

R2780[1] 8.2K 5% 1/16W MF-LF 402 2
R2781[1] 8.2K 5% 1/16W MF-LF 402 2

Battery
J8250

=SMBUS_BATT_SCL 65A2
=SMBUS_BATT_SDA 65A2

SMC "Battery B" SMBus Connections

=PP3V3_S0_SMBUS_SMC_BSB 64A6

SMC
U5800
(MASTER)

45C5 SMB_BSB_CLK
45C8 SMB_BSB_DATA

R2782[1] 100K 5% 1/16W MF-LF 402 2
R2783[1] 100K 5% 1/16W MF-LF 402 2

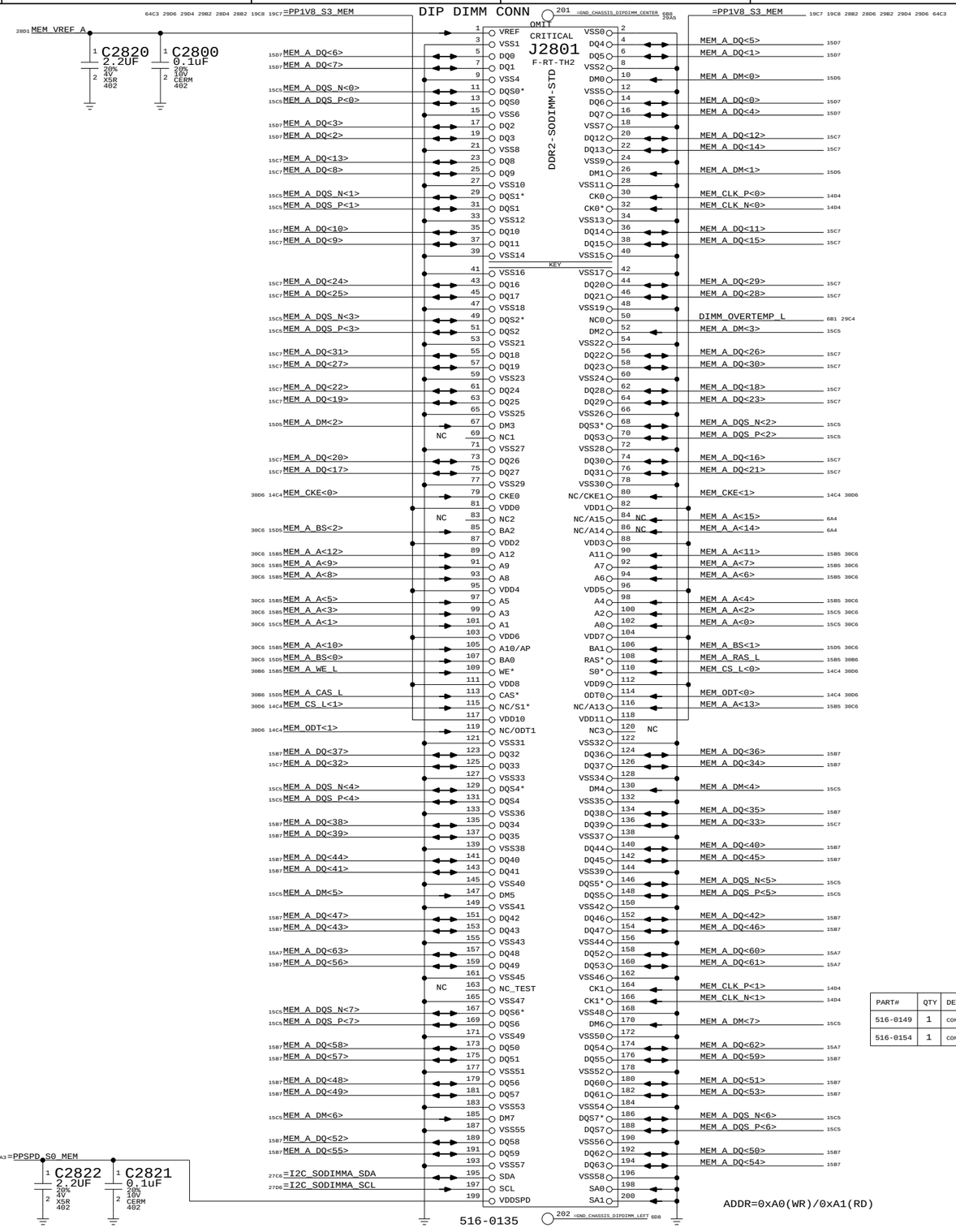
M42 SMBUS CONNECTIONS

SYNC_MASTER=ENET SYNC_DATE=08/30/2005

APPLE COMPUTER INC.

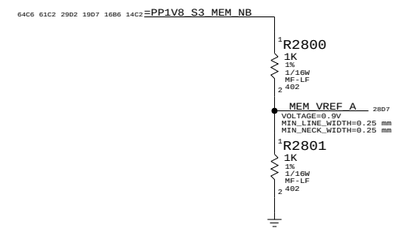
SIZE	DRAWING NUMBER	REV.
D	051-7374	A

SCALE	SHT	OF
NONE	27	79



DDR2 VRef

One 0.1uF per connector



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

Page Notes

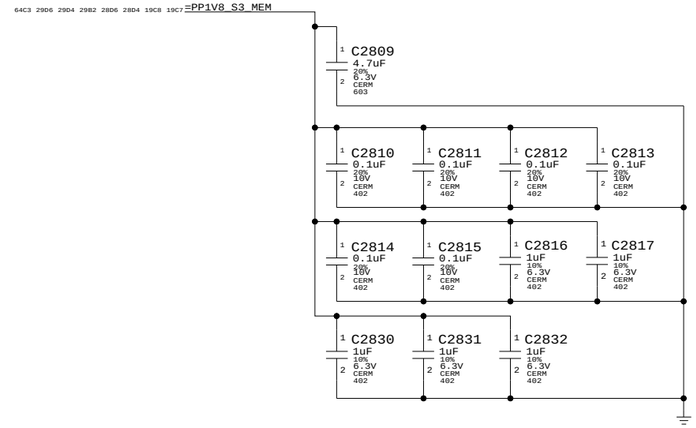
Power aliases required by this page:
- =PP1V8_S3_MEM
- =PPSPD_S0_MEM (2.5V - 3.3V)

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

BOM options provided by this page:
(NONE)

DDR2 Bypass Caps

(For return current)



The 4.7uF and 1.0uF caps can be changed to 5x 2.2uF caps,
when they get cheaper.

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
516-0149	1	CONN,200P STD SODIMM OLD REV	J2801	CRITICAL	PVT-DIMM
516-0154	1	CONN,200P STD SODIMM NEW REV 3.5	J2801	CRITICAL	POST-RAMP-DIMM35

DDR2 SO-DIMM Connector A

SYNC_MASTER=MEMORY SYNC_DATE=06/20/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 28 OF 79	

DDR2 VREF (FOR CONNECTOR B)

One 0.1uF per connector

=PP1V8_S3_MEM_NB

R2901 1K 1% 1/16W MF-LF 402

MEM_VREF_B

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

R2902 1K 1% 1/16W MF-LF 402

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

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.

DDR2 Bypass Caps

(For return current)

=PP1V8_S3_MEM

C2909 4.7uF 20% 6.3V CERM 603

C2910 0.1uF 20% 10V CERM 402
C2911 0.1uF 20% 10V CERM 402
C2912 0.1uF 20% 10V CERM 402
C2913 0.1uF 20% 10V CERM 402

C2914 0.1uF 20% 10V CERM 402
C2915 0.1uF 20% 10V CERM 402
C2916 1uF 10% 6.3V CERM 402
C2917 1uF 10% 6.3V CERM 402

C2930 1uF 10% 6.3V CERM 402
C2931 1uF 10% 6.3V CERM 402
C2932 1uF 10% 6.3V CERM 402

The 4.7uF and 1.0uF caps can be changed to 5x 2.2uF caps,
when they get cheaper.

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
516-0135	1	CONN,200P STD SODIMM OLD REV	J2901	CRITICAL	PVT-DIMM
516-0154	1	CONN,200P STD SODIMM NEW REV 3.5	J2901	CRITICAL	POST-RAMP-DIMM35

DIP DIMM CONN J2901 F-RT-TH2 (OMIT CRITICAL) — DDR2-SODIMM-STD

=PP1V8_S3_MEM

MEM_VREF_B

C2920 2.2UF 20% 4V X5R 402
C2900 0.1UF 20% 10V CERM 402

1	VREF	VSS0	2		
3	VSS1	DQ4	4	MEM_B_DQ<0>	15D4
5	DQ0	DQ5	6	MEM_B_DQ<4>	15D4
7	DQ1	VSS2	8		
9	VSS4	DM0	10	MEM_B_DM<0>	15D2
11	DQS0*	VSS5	12		
13	DQS0	DQ6	14	MEM_B_DQ<6>	15D4
15	VSS6	DQ7	16	MEM_B_DQ<7>	15D4
17	DQ2	VSS7	18		
19	DQ3	DQ12	20	MEM_B_DQ<15>	15C4
21	VSS8	DQ13	22	MEM_B_DQ<14>	15C4
23	DQ8	VSS9	24		
25	DQ9	DM1	26	MEM_B_DM<1>	15D2
27	VSS10	VSS11	28		
29	DQS1*	CK0	30	MEM_CLK_P<3>	14D4
31	DQS1	CK0*	32	MEM_CLK_N<3>	14D4
33	VSS12	VSS13	34		
35	DQ10	DQ14	36	MEM_B_DQ<11>	15C4
37	DQ11	DQ15	38	MEM_B_DQ<9>	15C4
39	VSS14	VSS15	40		
KEY					
41	VSS16	VSS17	42		
43	DQ16	DQ20	44	MEM_B_DQ<21>	15C4
45	DQ17	DQ21	46	MEM_B_DQ<16>	15C4
47	VSS18	VSS19	48		
49	DQS2*	NC0	50	DIMM_OVERTEMP_L	68I 28C4
51	DQS2	DM2	52	MEM_B_DM<2>	15D2
53	VSS21	VSS22	54		
55	DQ18	DQ22	56	MEM_B_DQ<23>	15C4
57	DQ19	DQ23	58	MEM_B_DQ<19>	15C4
59	VSS23	VSS24	60		
61	DQ24	DQ28	62	MEM_B_DQ<25>	15C4
63	DQ25	DQ29	66	MEM_B_DQ<24>	15C4
65	VSS25	VSS26	66		
67	DM3	DQS3*	68	MEM_B_DQS_N<3>	15C2
NC 69	NC1	DQS3	70	MEM_B_DQS_P<3>	15C2
71	VSS27	VSS28	72		
73	DQ26	DQ30	74	MEM_B_DQ<28>	15C4
75	DQ27	DQ31	76	MEM_B_DQ<26>	15C4
77	VSS29	VSS30	78		
79	CKE0	NC/CKE1	80	MEM_CKE<3>	14C4 30D6
81	VDD0	VDD1	82		
NC 83	NC2	NC/A15	84 NC	MEM_B_A<15>	6A4
85	BA2	NC/A14	86 NC	MEM_B_A<14>	6A4
87	VDD2	VDD3	88		
89	A12	A11	90	MEM_B_A<11>	15B2 30A5
91	A9	A7	92	MEM_B_A<7>	15B2 30B5
93	A8	A6	94	MEM_B_A<6>	15B2 30B5
95	VDD4	VDD5	96		
97	A5	A4	98	MEM_B_A<4>	15B2 30B5
99	A3	A2	100	MEM_B_A<2>	15C2 30B5
101	A1	A0	102	MEM_B_A<0>	15C2 30B5
103	VDD6	VDD7	104		
105	A10/AP	BA1	106	MEM_B_BS<1>	15D2 30A6
107	BA0	RAS*	108	MEM_B_RAS_L	15B2 30A6
109	WE*	S0*	110	MEM_CS_L<2>	14C4 30D6
111	VDD8	VDD9	112		
113	CAS*	ODT0	114	MEM_ODT<2>	14C4 30D6
115	NC/S1*	NC/A13	116	MEM_B_A<13>	15B2 30A5
117	VDD10	VDD11	118		
119	NC/ODT1	NC3	120 NC		
121	VSS31	VSS32	122		
123	DQ32	DQ36	124	MEM_B_DQ<63>	15A4
125	DQ33	DQ37	126	MEM_B_DQ<59>	15B4
127	VSS33	VSS34	128		
129	DQS4*	DM4	130	MEM_B_DM<7>	15C2
131	DQS4	VSS35	132		
133	VSS36	DQ38	134	MEM_B_DQ<61>	15A4
135	DQ34	DQ39	136	MEM_B_DQ<56>	15B4
137	DQ35	VSS37	138		
139	VSS38	DQ44	140	MEM_B_DQ<53>	15B4
141	DQ40	DQ45	142	MEM_B_DQ<48>	15B4
143	DQ41	VSS39	144		
145	VSS40	DQS5*	146	MEM_B_DQS_N<6>	15C2
147	DM5	DQS5	148	MEM_B_DQS_P<6>	15C2
149	VSS41	VSS42	150		
151	DQ42	DQ46	152	MEM_B_DQ<54>	15B4
153	DQ43	DQ47	154	MEM_B_DQ<51>	15B4
155	VSS43	VSS44	156		
157	DQ48	DQ52	158	MEM_B_DQ<33>	15C4
159	DQ49	DQ53	160	MEM_B_DQ<36>	15B4
161	VSS45	VSS46	162		
NC 163	NC_TEST	CK1	164	MEM_CLK_P<2>	
165	VSS47	CK1*	166	MEM_CLK_N<2>	14D4
167	DQS6*	VSS48	168		
169	DQS6	DM6	170	MEM_B_DM<4>	15C2
171	VSS49	VSS50	172		
173	DQ50	DQ54	174	MEM_B_DQ<35>	15B4
175	DQ51	DQ55	176	MEM_B_DQ<39>	15B4
177	VSS51	VSS52	178		
179	DQ56	DQ60	180	MEM_B_DQ<40>	15B4
181	DQ57	DQ61	182	MEM_B_DQ<42>	15B4
183	VSS53	VSS54	184		
185	DM7	DQS7*	186	MEM_B_DQS_N<5>	15C2
187	VSS55	DQS7	188	MEM_B_DQS_P<5>	15C2
189	DQ58	VSS56	190		
191	DQ59	DQ62	192	MEM_B_DQ<46>	15B4
193	VSS57	DQ63	194	MEM_B_DQ<47>	15B4
195	SDA	VSS58	196		
197	SCL	SA0	198		
199	VDDSPD	SA1	200	J2900_SA1	

516-0135

ADDR=0xA4(WR)/0xA5(RD)

=PPSPD_S0_MEM

C2922 2.2UF 20% 4V X5R 402
C2921 0.1UF 20% 10V CERM 402

R2900 10K 5% 1/10W MF-LF 402

Resistor prevents pwr-gnd short

DDR2 SO-DIMM Connector B

SYNC_MASTER=MEMORY SYNC_DATE=06/20/2005

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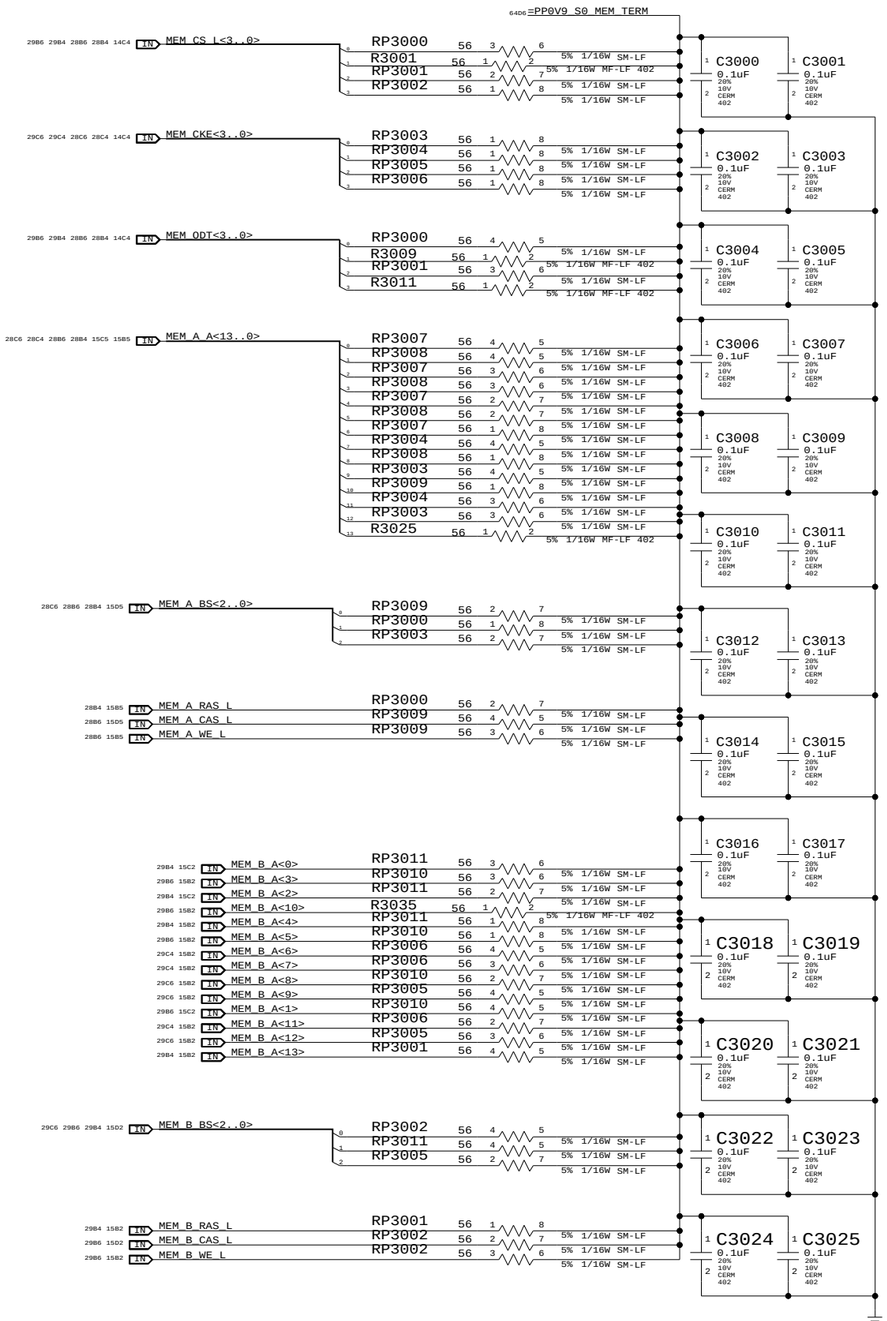
SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 29 OF 79	

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



LAYOUT NOTE:PLACE ONE CAP CLOSE TO EVERY TWO PULLUP RESISTORS TERMINATED TO PP0V9_S0_MEM_TERM

Memory Active Termination

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 30 OF 79	

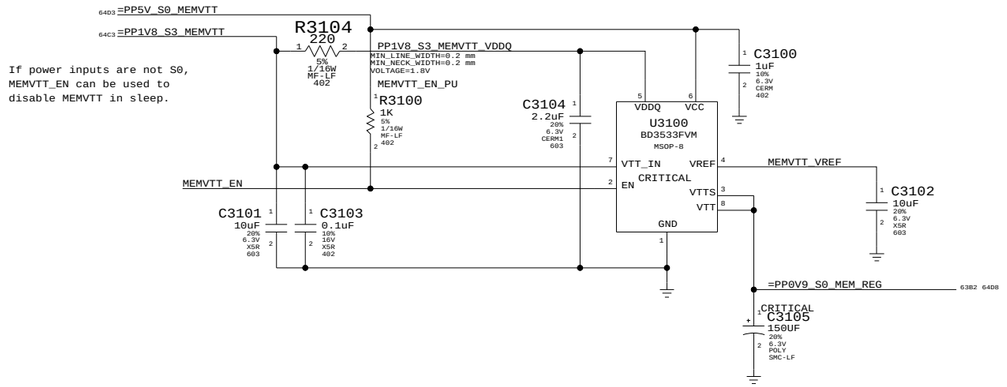
Page Notes

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	051-7374	A
SCALE: NONE	SHT 31 OF 79	

L3301
120-OHM-0.3A-EMI
0402-LF

64A6 32D3 32C7 =PP3V3_S0_CK410

C3314 1UF 10% 6.3V CERM 402

PP3V3_S0_CK410_VDD_CPU_SRC
VOLTAGE=3.3V
MIN_LINE_WIDTH=0.5mm
MIN_NECK_WIDTH=0.2mm

C3316 10UF 20% 6.3V X5R 603
C3315 0.1UF 10% 16V X5R 402
C3301 0.1UF 10% 16V X5R 402
C3302 0.1UF 10% 16V X5R 402
C3303 0.1UF 10% 16V X5R 402
C3304 0.1UF 10% 16V X5R 402

R3304 2.2 5% 1/10W MF-LF 402

PP3V3_S0_CK410_VDDA
VOLTAGE=3.3V
MIN_LINE_WIDTH=0.5mm
MIN_NECK_WIDTH=0.2mm

C3312 10UF 20% 6.3V X5R 603
C3311 0.1UF 10% 16V X5R 402

CRITICAL
Y3301 14.31818 5X3.2-SM
NEED TO CHECK CAP VALUE
C3389 15PF 5% 50V CERM 402
C3390 15PF 5% 50V CERM 402

64A6 32D8 32D3 =PP3V3_S0_CK410
R3301 10K 5% 1/16W MF-LF 402

(FW PCI 33MHZ)
(TPM LPC 33MHZ)
(SMC LPC 33MHZ)
(NO USED)
(PORT80 LPC 33MHZ)
(ICH7M PCI 33MHZ)
(PULL UP PIN 68 TO ENABLE ITP HOST CLK)
(ICH SM BUS)

R3300 475 1% 1/16W MF-LF 402

PP3V3_S0_CK410_VDD48
VOLTAGE=3.3V
MIN_LINE_WIDTH=0.5mm
MIN_NECK_WIDTH=0.2mm

C3308 0.1UF 10% 16V X5R 402
C3309 10UF 20% 6.3V X5R 603

R3302 2.2 5% 1/10W MF-LF 402

L3302
120-OHM-0.3A-EMI
0402-LF

=PP3V3_S0_CK410 32C7 32D8 64A6
C3310 1UF 10% 6.3V CERM 402

PP3V3_S0_CK410_VDD_PCI
VOLTAGE=3.3V
MIN_LINE_WIDTH=0.5mm
MIN_NECK_WIDTH=0.2mm

C3305 0.1UF 10% 16V X5R 402
C3306 0.1UF 10% 16V X5R 402
C3317 10UF 20% 6.3V X5R 603

R3303 1 5% 1/10W MF-LF 402

PP3V3_S0_CK410_VDD_REF
VOLTAGE=3.3V
MIN_LINE_WIDTH=0.5mm
MIN_NECK_WIDTH=0.2mm

C3307 0.1UF 10% 16V X5R 402

3 VDD_48
43 VDD_CPU
61 VDD_PCI
67 VDD_REF
49
12 VDD_SRC
17
28
35

(EACH POWER PIN PLACED ONE 0.1UF)
(PLACED 0.1UF NEAR THE RELATIVE POWER PIN)

OMIT
U3301
SLG8LP436
QFN
CRITICAL

38 VDD_A
39 VSS_A
51 XTAL_IN
50 XTAL_OUT
8 FS_B_TEST_MODE
57 PCI_1
58 PCI_2
63 PCI_3
64 PCI_4
65 PCI_5/FCT_SEL_1 (INT PD)
68 PCIF_0/ITP_EN
1 PCIF_1
47 SCL
48 SDA
40 NC
5 VSS_48
46 VSS_CPU
62 VSS_PCI
66
52 VSS_REF
31 VSS_SRC
69 THRML_PAD

CK410_XTAL_IN
CK410_XTAL_OUT
33B8 IN CK410_FSB_TEST_MODE
33D8 OUT CK410_PCI1_CLK
OUT CK410_PCI2_CLK
OUT CK410_PCI3_CLK
OUT CK410_PCI4_CLK
IO 33A8 CK410_PCI5_FCTSEL1
33D8 OUT CK410_PCIF0_CLK
33D8 5C7 OUT CK410_PCIF1_CLK
27D6 IN SMB_CK410_CLK
27D6 IO SMB_CK410_DATA
CK410_IREF

PCI_STOP* 56 (INT PU) 23C8 PM_STPPCI_L IN
CPU_STOP* 55 (INT PU) 23C8 PM_STPCPU_L IN
CPU_0* 44 33D5 5C7 CK410_CPU0_N OUT
CPU_0 45 33D5 5C7 CK410_CPU0_P OUT
CPU_1* 41 33D5 5C7 CK410_CPU1_N OUT
CPU_1 42 33D5 5C7 CK410_CPU1_P OUT
CPU_ITP/SRC_11* 36 CK410_CPU2_ITP_SRC10_N OUT
CPU_ITP/SRC_11 37 CK410_CPU2_ITP_SRC10_P OUT
SRC_0/LCD_CLK* 11 33A5 5C7 CK410_LVDS_N OUT
SRC_0/LCD_CLK 10 33A5 5C7 CK410_LVDS_P OUT
SRC_1* 14 68A CK410_SRC1_N OUT
SRC_1 13 68A CK410_SRC1_P OUT
(INT PU) CLKREQ_1* 9 68A CK410_SRC_CLKREQ1_L IN
SRC_2* 16 33C5 5C7 CK410_SRC2_N OUT
SRC_2 15 33C5 5C7 CK410_SRC2_P OUT
SRC_3* 19 68A CK410_SRC3_N OUT
SRC_3 18 68A CK410_SRC3_P OUT
(INT PU) CLKREQ_3* 59 68A CK410_SRC_CLKREQ3_L IN
SRC_4* 22 33B5 5C7 CK410_SRC4_N OUT
SRC_4 21 33B5 5C7 CK410_SRC4_P OUT
(INT PU) CLKREQ_4* 20 23C3 SB_CLK100M_SATA_OE_L IN
SRC_5* 24 33C5 5C7 CK410_SRC5_N OUT
SRC_5 23 33C5 5C7 CK410_SRC5_P OUT
(INT PU) CLKREQ_5* 60 14B8 CLK_NB_OE_L IN
SRC_6* 27 33C5 5C7 CK410_SRC6_N OUT
SRC_6 26 33D5 5C7 CK410_SRC6_P OUT
(INT PU) CLKREQ_6* 25 43C6 CK410_SRC_CLKREQ6_L IN
SRC_7* 30 68A CK410_SRC7_N OUT
SRC_7 29 68A CK410_SRC7_P OUT
SRC_8* 32 33C5 5B7 CK410_SRC8_N OUT
SRC_8 33 33C5 5B7 CK410_SRC8_P OUT
(INT PU) CLKREQ_8* 34 33A5 5B7 CK410_SRC_CLKREQ8_L IN
DOT_96*/27M_SS* 7 CK410_DOT96_27M_N OUT
DOT_96/27M 6 CK410_DOT96_27M_P OUT
(INT PD) VTT_PWRGD*/PD 2 26A8 CK410_PD_VTT_PWRGD_L IN
48M/FS_A 4 33C8 CK410_USB48_FSA OUT
REF_0/FS_C/TEST_SEL 54 33B8 CK410_CLK14P3M_TIMER OUT
(INT PD) REF_1/FCT_SEL_0 53 33A8 CK410_REF1_FCTSEL0 IO

(FROM ICH7 GPIO18 STPPCI*)
(FROM ICH7 GPIO20 STPCPU*)
(CPU HOST 133/167MHZ)
(GMCH HOST 133/167MHZ)
(ITP HOST 133/167MHZ)
(GMCH D_REFSSCLKIN DISPLAY PLL B 100MHZ)
(GPU PCI-E 100 MHZ)

NEED TO DECIDE THE CLKREQ CONNECTION,TO GPIO?

(ICH7M DMI 100 MHZ)
(FOR PCI-E CARD)
(ICH SATA 100 MHZ)
(FROM ICH7 GPIO35) (SIGNAL NAME WILL BE CHANGED POST PROTO TO REMOVE 100M FROM SIGNAL NAME)
(GMCH G_CLKIN 100 MHZ)
(FROM GMCH CLK_REQ*)
(WIRELESS PCI-E 100 MHZ)
(NOT USED)
(GIGA LAN PCI-E 100 MHZ)
(GMCH D_REFCLKIN DISPLAY PLL A 96MHZ)
(FROM CPU VCORE PWR GOOD)
(ICH7M USB 48MHZ)
(ICH7M,SIO,LPC REF. 14.318MHZ)

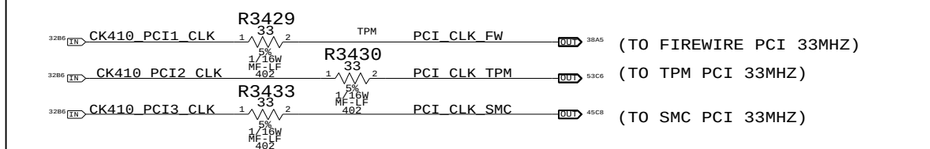
FCTSEL1	FCTSEL0	PIN 6	PIN 7	PIN 10	PIN 11	
0	0	DOT96T	DOT96C	100MT_SST	100MC_SST	* FOR INT. GRAPHIC SYSTEM
0	1	DOT96T	DOT96C	SRCT0	SRCC0	
1	0	27M NON SPREAD	27M SPREAD	SRCT0	SRCC0	* FOR EXT. GRAPHIC SYSTEM
1	1	OFF LOW	TBD	SRCT0	SRCC0	

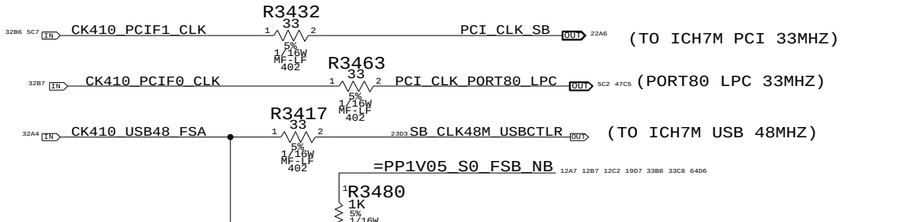
CLOCKS

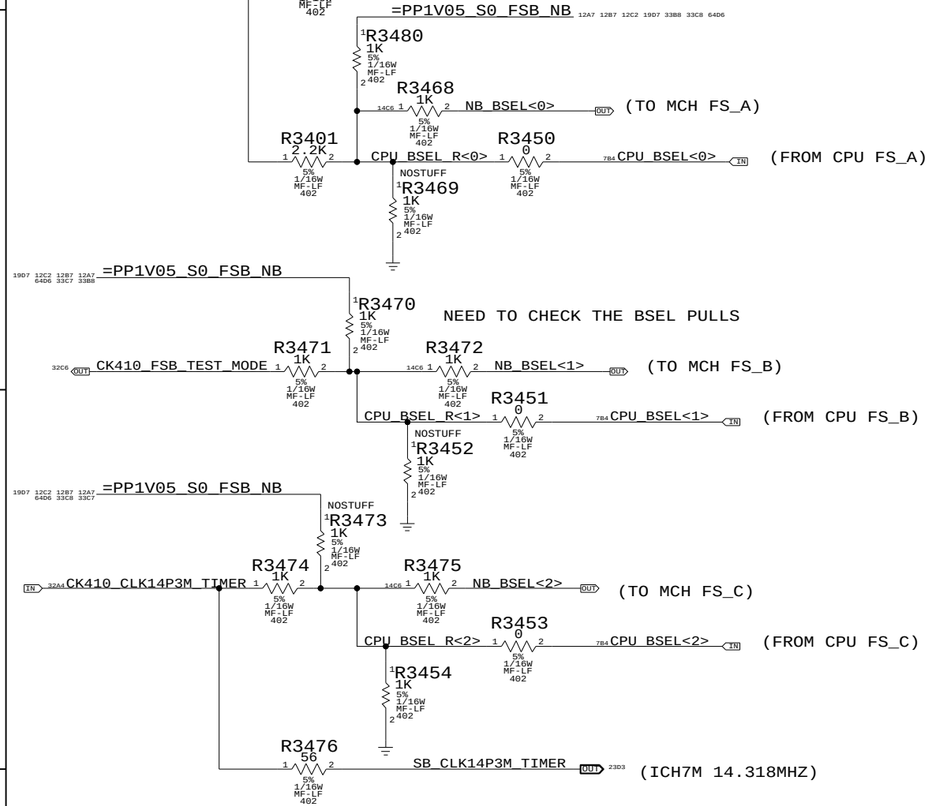
SYNC_MASTER=CLOCK SYNC_DATE=06/03/2005

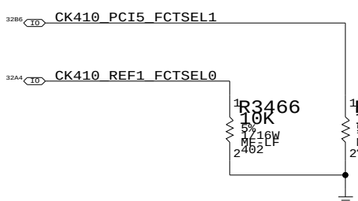
APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 32 OF 79	

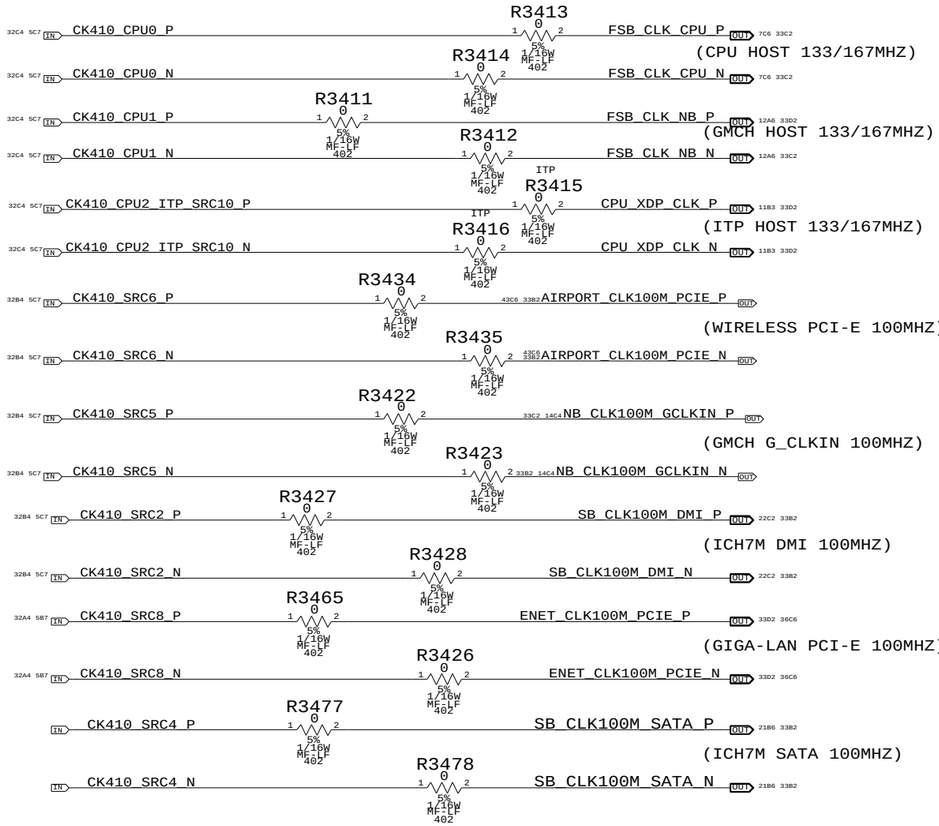


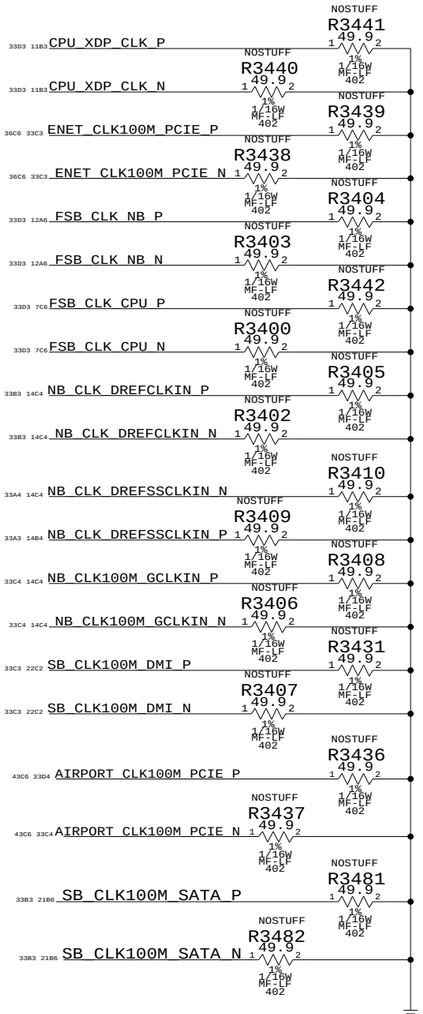






SET FCTSEL0,FCTSEL1 TO 00
EVEN THESE TWO PINS INTERNAL PULL DOWN,
CYPRESS RECOMMAND TO ADD EXTERNAL PULLS,





NOSTUFF R3450,R3451,R3453 FOR MANUAL CPU FREQUENCY

	FS_C	FS_B	FS_A	CPU
	1	0	1	100M
	0	0	1	133M
#	0	1	1	166M
	0	1	0	200M

NAPA PLATFORM ONLY SUPPORT 133M/166M CPU SPEED, M42 133MHZ

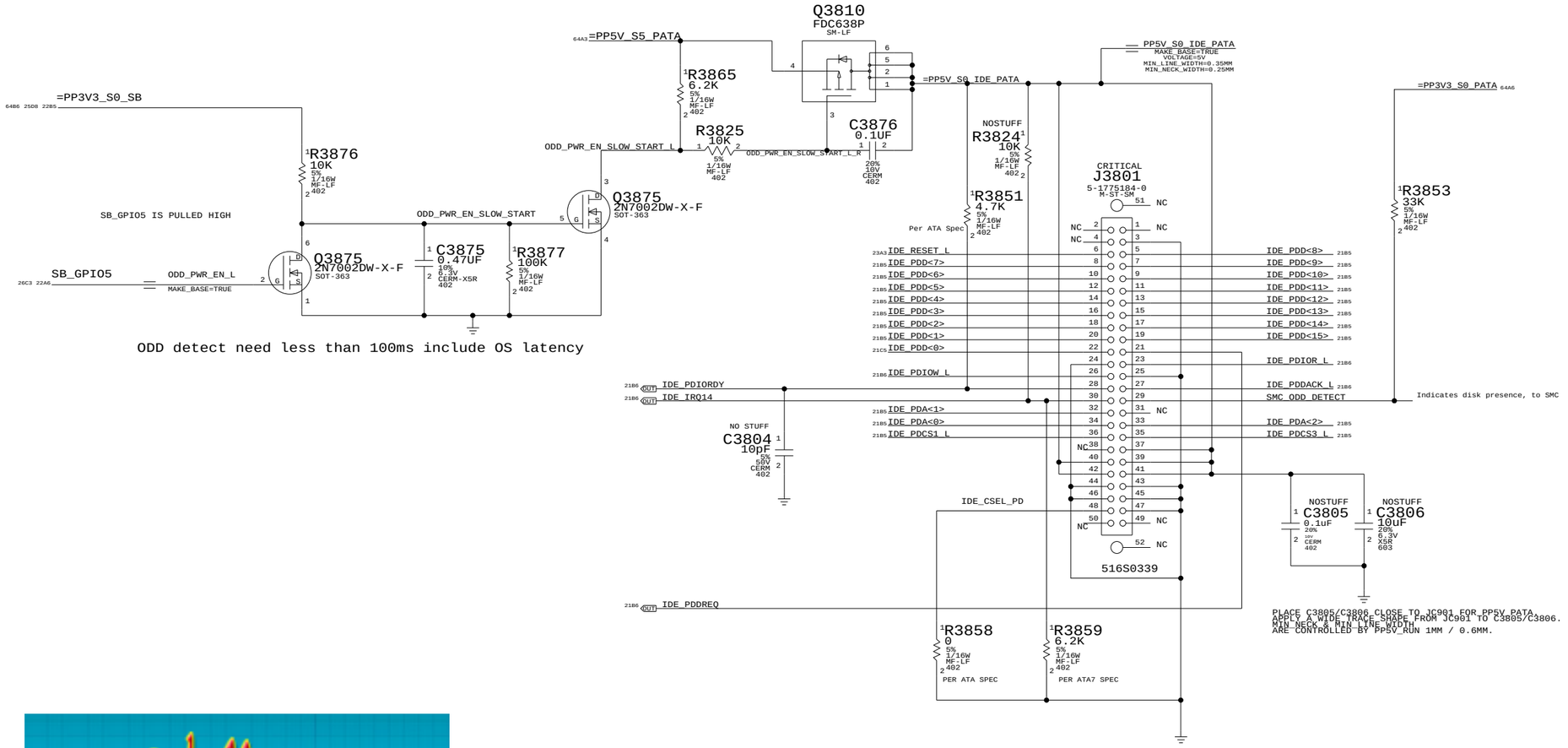
CLOCK TERMINATION

SYNC_MASTER=CLOCK SYNC_DATE=06/06/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A

SCALE	SHT	OF
NONE	33	79



PATA CONNECTOR

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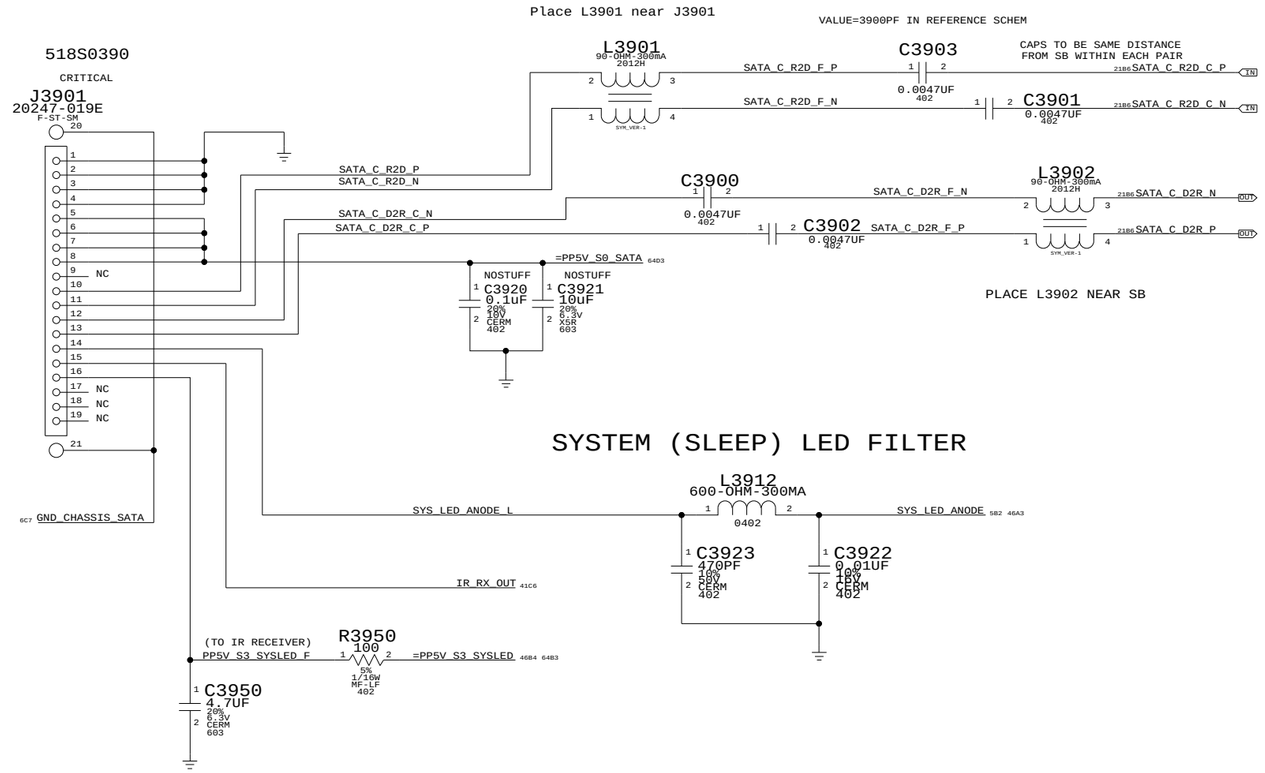
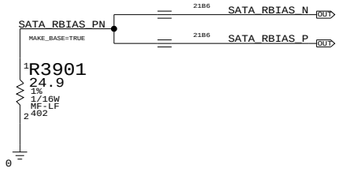
SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 34 OF 79	

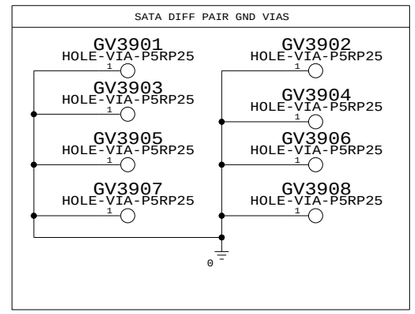
SATA CONNECTOR



PLACE NEAR ICH7 PIN



SYSTEM (SLEEP) LED FILTER

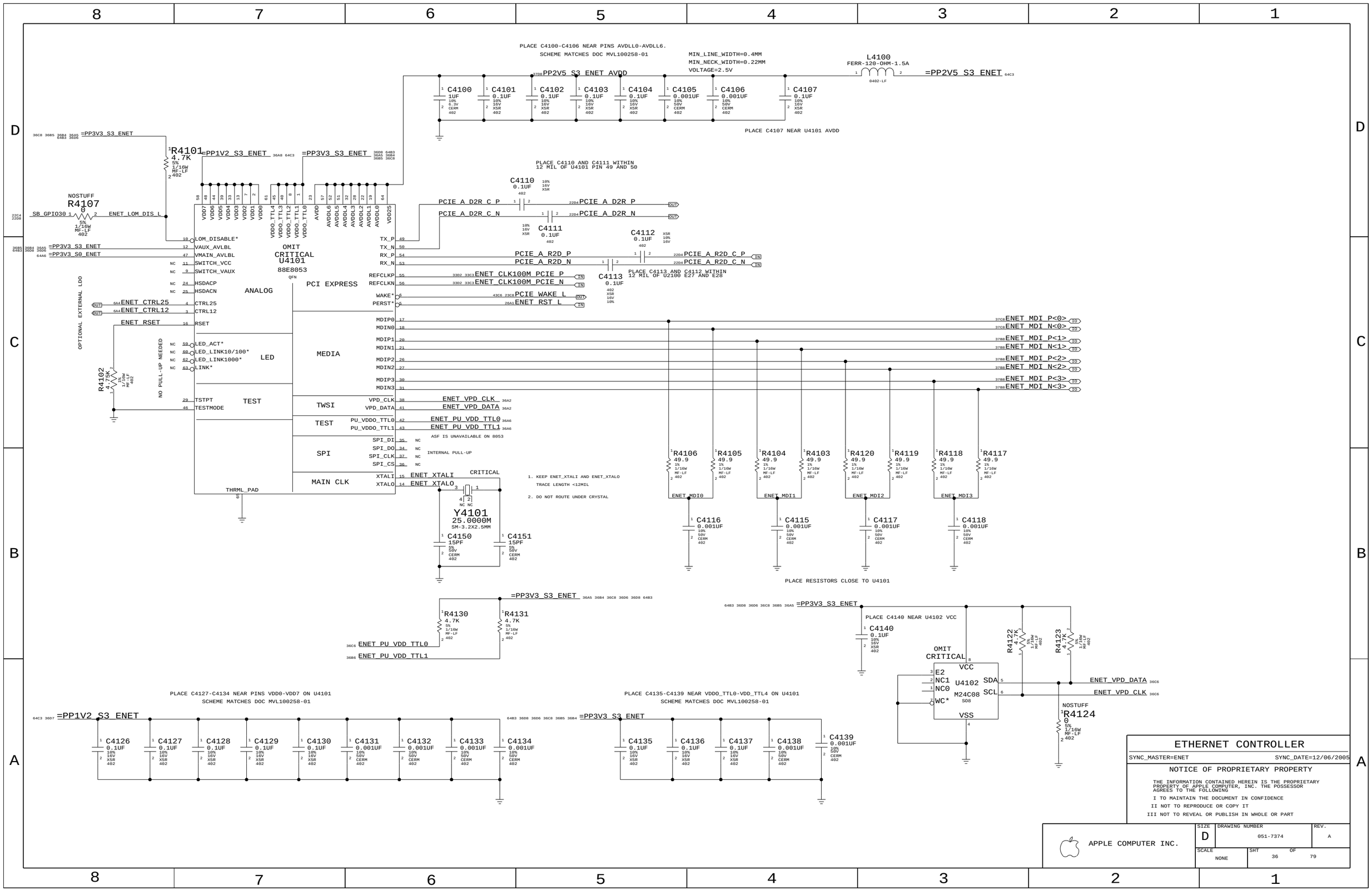


PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
155S0227	155S0164	?	L3901,L3902	KEEP MAG.LAYER IN BOM

SATA CONNECTOR

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 35 OF 79	


PLACE C4100-C4106 NEAR PINS AVDLL0-AVDLL6.
SCHEME MATCHES DOC MVL100258-01
MIN_LINE_WIDTH=0.4MM
MIN_NECK_WIDTH=0.22MM
VOLTAGE=2.5V
37D8 PP2V5_S3_ENET_AVDD
L4100
FERR-120-OHM-1.5A
=PP2V5_S3_ENET 64C3
C4100 1UF 10% 6.3V CERM 402
C4101 0.1UF 10% 16V X5R 402
C4102 0.1UF 10% 16V X5R 402
C4103 0.1UF 10% 16V X5R 402
C4104 0.1UF 10% 16V X5R 402
C4105 0.001UF 10% 50V CERM 402
C4106 0.001UF 10% 50V CERM 402
C4107 0.1UF 10% 16V X5R 402
PLACE C4107 NEAR U4101 AVDD
36C8 36B5 36B4 36A5 64B3 36D6 =PP3V3_S3_ENET
R4101 4.7K 5% 1/16W MF-LF 402
=PP1V2_S3_ENET 36A8 64C3
=PP3V3_S3_ENET 36D8 64B3 36A5 36B4 36B5 36C8
NOSTUFF
R4107 0 5% 1/16W MF-LF 402
22C4 22D8 SB_GPIO30
ENET_LOM_DIS_L
PLACE C4110 AND C4111 WITHIN
12 MIL OF U4101 PIN 49 AND 50
C4110 0.1UF 10% 16V X5R 402
PCIE_A_D2R_C_P
PCIE_A_D2R_C_N
22D4 PCIE_A_D2R_P
22D4 PCIE_A_D2R_N
C4111 0.1UF 10% 16V X5R 402
C4112 0.1UF X5R 10% 16V 402
PCIE_A_R2D_P
PCIE_A_R2D_N
22D4 PCIE_A_R2D_C_P
22D4 PCIE_A_R2D_C_N
C4113 0.1UF 402 X5R 16V 10%
PLACE C4113 AND C4112 WITHIN
12 MIL OF U2100 E27 AND E28
36B5 36B4 36A5 36D6 =PP3V3_S3_ENET
64A6 =PP3V3_S0_ENET
OMIT
CRITICAL
U4101
88E8053
QFN
OPTIONAL EXTERNAL LDO
ANALOG
PCI EXPRESS
MEDIA
LED
TEST
TWSI
SPI
MAIN CLK
LOM_DISABLE*
VAUX_AVLBL
VMAIN_AVLBL
SWITCH_VCC
SWITCH_VAUX
HSDACP
HSDACN
CTRL25
CTRL12
RSET
LED_ACT*
LED_LINK10/100*
LED_LINK1000*
LINK*
TSTPT
TESTMODE
TX_P
TX_N
RX_P
RX_N
REFCLKP
REFCLKN
WAKE*
PERST*
MDIP0
MDIN0
MDIP1
MDIN1
MDIP2
MDIN2
MDIP3
MDIN3
VPD_CLK
VPD_DATA
PU_VDDO_TTL0
PU_VDDO_TTL1
SPI_DI
SPI_DO
SPI_CLK
SPI_CS
XTALI
XTALO
THRML_PAD
ENET_CTRL25
ENET_CTRL12
ENET_RSET
NO PULL-UP NEEDED
R4102 4.75K 1% 1/16W MF-LF 402
ENET_CLK100M_PCIE_P 33D2 33C3
ENET_CLK100M_PCIE_N 33D2 33C3
PCIE_WAKE_L 43C6 23C8
ENET_RST_L 26A1
ENET_MDI_P<0> 37C8
ENET_MDI_N<0> 37C8
ENET_MDI_P<1> 37B8
ENET_MDI_N<1> 37B8
ENET_MDI_P<2> 37B8
ENET_MDI_N<2> 37B8
ENET_MDI_P<3> 37B8
ENET_MDI_N<3> 37B8
ENET_VPD_CLK 36A2
ENET_VPD_DATA 36A2
ENET_PU_VDD_TTL0 36A6
ENET_PU_VDD_TTL1 36A6
ASF IS UNAVAILABLE ON 8053
INTERNAL PULL-UP
CRITICAL
Y4101 25.0000M SM-3.2X2.5MM
C4150 15PF 5% 50V CERM 402
C4151 15PF 5% 50V CERM 402
1. KEEP ENET_XTALI AND ENET_XTALO TRACE LENGTH <12MIL
2. DO NOT ROUTE UNDER CRYSTAL
R4106 49.9 1% 1/16W MF-LF 402
R4105 49.9 1% 1/16W MF-LF 402
R4104 49.9 1% 1/16W MF-LF 402
R4103 49.9 1% 1/16W MF-LF 402
R4120 49.9 1% 1/16W MF-LF 402
R4119 49.9 1% 1/16W MF-LF 402
R4118 49.9 1% 1/16W MF-LF 402
R4117 49.9 1% 1/16W MF-LF 402
ENET_MDI0
ENET_MDI1
ENET_MDI2
ENET_MDI3
C4116 0.001UF 10% 50V CERM 402
C4115 0.001UF 10% 50V CERM 402
C4117 0.001UF 10% 50V CERM 402
C4118 0.001UF 10% 50V CERM 402
PLACE RESISTORS CLOSE TO U4101
R4130 4.7K 5% 1/16W MF-LF 402
R4131 4.7K 5% 1/16W MF-LF 402
=PP3V3_S3_ENET 36A5 36B4 36C8 36D6 36D8 64B3
36C6 ENET_PU_VDD_TTL0
36B6 ENET_PU_VDD_TTL1
64B3 36D8 36D6 36C8 36B5 36A5 =PP3V3_S3_ENET
PLACE C4140 NEAR U4102 VCC
C4140 0.1UF 10% 16V X5R 402
OMIT
CRITICAL
U4102
M24C08
SO8
VCC
E2
NC1
NC0
WC*
VSS
SDA
SCL
R4122 4.7K 5% 1/16W MF-LF 402
R4123 4.7K 5% 1/16W MF-LF 402
ENET_VPD_DATA 36C6
ENET_VPD_CLK 36C6
NOSTUFF
R4124 0 5% 1/16W MF-LF 402
PLACE C4127-C4134 NEAR PINS VDD0-VDD7 ON U4101
SCHEME MATCHES DOC MVL100258-01
64C3 36D7 =PP1V2_S3_ENET
C4126 0.1UF 10% 16V X5R 402
C4127 0.1UF 10% 16V X5R 402
C4128 0.1UF 10% 16V X5R 402
C4129 0.1UF 10% 16V X5R 402
C4130 0.1UF 10% 16V X5R 402
C4131 0.001UF 10% 50V CERM 402
C4132 0.001UF 10% 50V CERM 402
C4133 0.001UF 10% 50V CERM 402
C4134 0.001UF 10% 50V CERM 402
PLACE C4135-C4139 NEAR VDDO_TTL0-VDD_TTL4 ON U4101
SCHEME MATCHES DOC MVL100258-01
64B3 36D8 36D6 36C8 36B5 36B4 =PP3V3_S3_ENET
C4135 0.1UF 10% 16V X5R 402
C4136 0.1UF 10% 16V X5R 402
C4137 0.1UF 10% 16V X5R 402
C4138 0.001UF 10% 50V CERM 402
C4139 0.001UF 10% 50V CERM 402
ETHERNET CONTROLLER
SYNC_MASTER=ENET
SYNC_DATE=12/06/2005
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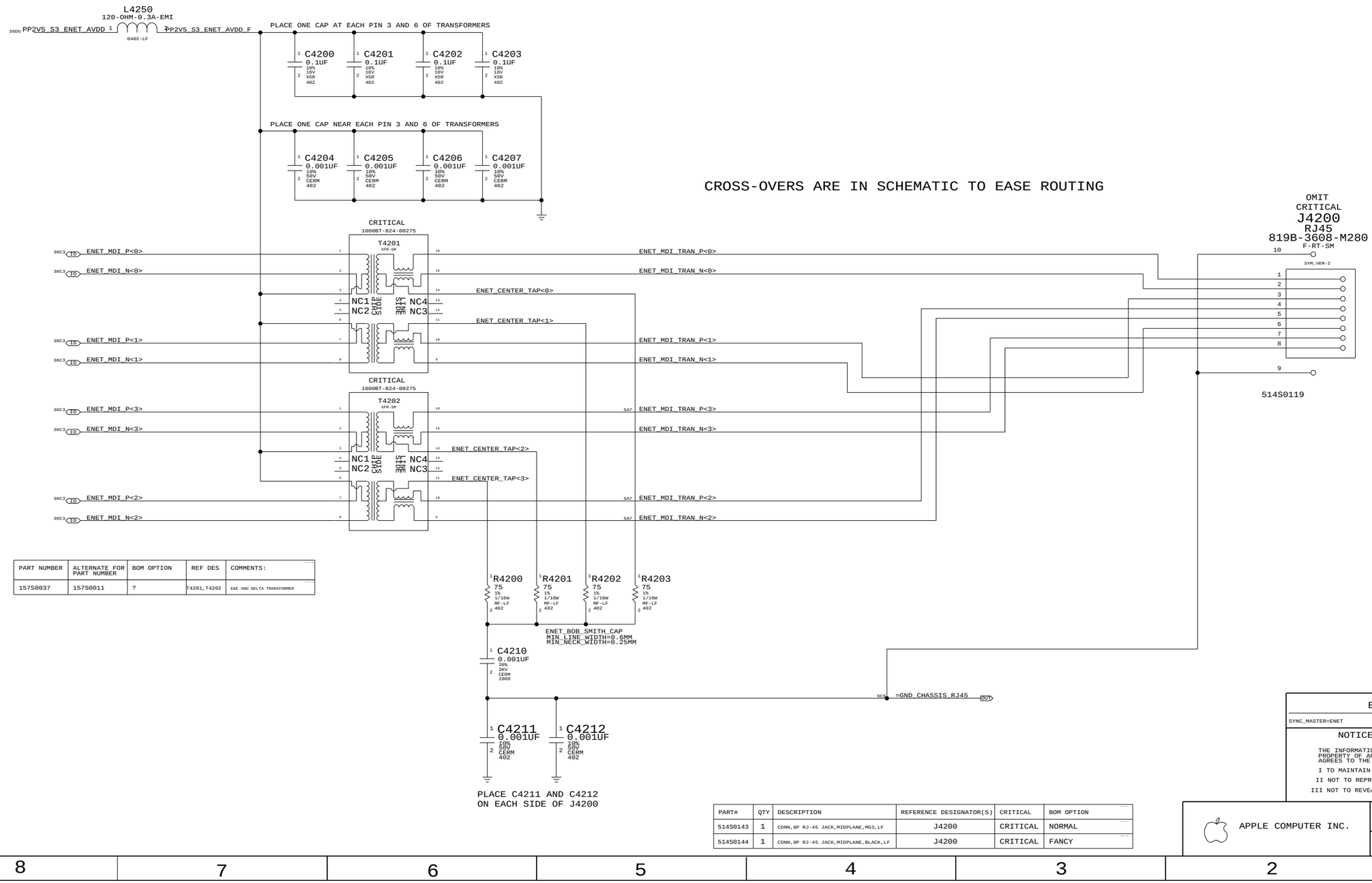
REV. A
SCALE NONE
SHT 36 OF 79



PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
157S0037	157S0011	?	T4201,T4202	E&E AND DELTA TRANSFORMER

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
514S0143	1	CONN,8P RJ-45 JACK,MIDPLANE,MG3,LF	J4200	CRITICAL	NORMAL
514S0144	1	CONN,8P RJ-45 JACK,MIDPLANE,BLACK,LF	J4200	CRITICAL	FANCY

ETHERNET CONNECTOR

SYNC_MASTER=ENET SYNC_DATE=11/14/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A

SCALE	SHT	OF
NONE	37	79

PAGE NOTES

INPUT

=PP3V3_S0_FW - 3.3V POWER FOR FIREWIRE (MOBILE: OFF DURING SLEEP)
=PP3V3_S0_PCI - 3.3V POWER FOR PCI FIREWIRE (MOBILE: OFF DURING SLEEP)
PCI_GNT3_L - PCI GRANT FROM SB
PCI_CLK_FW - NEED TO REFERENCE TO ALIAS PAGE
PCI_RST_L - PCI RESET FROM SB
FW_PC0 - FIREWIRE POWER CLASS IDENTIFIER

INPUT/OUTPUT

PCI_AD<0..31>,PCI_C_BE_L<0..3>,PCI_FRAME_L,PCI_IRDY_L,PCI_TRDY_L,
PCI_DEVSEL_L, PCI_STOP_L, PCI_PAR, PCI_PERR_L, PCI_SERR_L
FW_A_TPA_P/N, FW_A_TPB_P/N, FW_A_TPBIAS - PORT 0 FIREWIRE DIFF PAIRS
FW_B_TPA_P/N, FW_B_TPB_P/N, FW_B_TPBIAS - PORT 1 FIREWIRE DIFF PAIRS
FW_C_TPA_P/N, FW_C_TPB_P/N, FW_C_TPBIAS - PORT 2 FIREWIRE DIFF PAIRS

OUTPUT

PCI_REQ3_L - PCI REQUEST TO SB
PM_CLKRUN_L - CLOCK-RUN PCI PROTOCOL
INT_PIRQD_L - INTERRUPT TO SB
PCI_PME_FW_L - DEDICATED PME FOR FIREWIRE (SB GPIO1)

PAGE HISTORY

5/19/2005 - FIRST REVISION OF PAGE
6/20/2005 - BGA VERSION OF FW323-06 ADDED
6/21/2005 - CHANGED INT* TO INT_PIRQD_L (PER ARCHITECTURAL DEFINITION)
6/21/2005 - CHANGED PCI_ID TO ADIO (PER ARCHITECTURAL DEFINITION)
6/21/2005 - CHANGED REQ/GNT TO REQ3/GNT3 (PER ARCHITECTURAL DEFINITION)
6/22/2005 - ADDED 510R PULL-DOWN ON RST* AND REMOVED CONNECTION TO PLT_RST_L
6/22/2005 - CHANGED CLK_PME_DIFF_PAIR NAMES TO BE RE-USE COMPLIANT
6/22/2005 - REMOVED CONSTRAINT SETS AS THEY WILL BE MANAGED ON BOARD SIDE
6/22/2005 - REMOVED C4421 - REDUNDANT
6/22/2005 - BRING OUT PCB CONNECTION TO BE CONNECTED ON PORT PAGE
7/26/2005 - CONNECTED PIN E10 TO GND

MOBILE TURNS OFF CONTROLLER POWER DURING SLEEP
0.001A DURING SLEEP

6483 =PP3V3_S3_FW

PLACE ONE CAP PER TWO PINS STARTING WITH C4424 ON VDD0

C4424 10UF 20% 6.3V X5R 603
C4418 0.1UF 10% 10V CERM 402
C4422 0.1UF 10% 10V CERM 402
C4426 0.1UF 10% 10V CERM 402
C4428 0.1UF 10% 10V CERM 402
C4430 0.1UF 10% 10V CERM 402
C4432 0.1UF 10% 10V CERM 402

L4400 600-OHM-300MA 0402

PLACE ONE CAP PER TWO PINS STARTING WITH C4416 ON VDDA0

PP3V3_S3_FW_AVDD
VOLTAGE=3.3V
MIN_LINE_WIDTH=0.5MM
MIN_NECK_WIDTH=0.2MM

C4416 10UF 20% 6.3V X5R 603
C4417 0.1UF 10% 10V X5R 402
C4429 0.1UF 10% 10V X5R 402
C4425 0.1UF 10% 10V X5R 402

6483 =PP3V3_S3_PCI

CONNECT TO VDD FOR 3.3V OPERATION

OMIT
CRITICAL
U4400
FW32306
BGA

G4	VDD0	
M1	VDD1	
M2	VDD2	
K5	VDD3	
K6	VDD4	
K7	VDD5	
L13	VDD6	
H13	VDD7	
A2	VDD9	
D10	VDDA0	
A13	VDDA1	
B13	VDDA2	
A7	VDDA3	
A8	VDDA4	
D6	VDDA5	
G13	PCI_VIOS	
F10	PCI_AD0	PCI_AD<0>
G10	PCI_AD1	PCI_AD<1>
H10	PCI_AD2	PCI_AD<2>
H12	PCI_AD3	PCI_AD<3>
J13	PCI_AD4	PCI_AD<4>
J12	PCI_AD5	PCI_AD<5>
K13	PCI_AD6	PCI_AD<6>
K10	PCI_AD7	PCI_AD<7>
L12	PCI_AD8	PCI_AD<8>
M13	PCI_AD9	PCI_AD<9>
L11	PCI_AD10	PCI_AD<10>
M12	PCI_AD11	PCI_AD<11>
M11	PCI_AD12	PCI_AD<12>
N12	PCI_AD13	PCI_AD<13>
M10	PCI_AD14	PCI_AD<14>
N11	PCI_AD15	PCI_AD<15>
M4	PCI_AD16	PCI_AD<16>
N5	PCI_AD17	PCI_AD<17>
N4	PCI_AD18	PCI_AD<18>
M3	PCI_AD19	PCI_AD<19>
M2	PCI_AD20	PCI_AD<20>
N3	PCI_AD21	PCI_AD<21>
K4	PCI_AD22	PCI_AD<22>
M1	PCI_AD23	PCI_AD<23>
K2	PCI_AD24	PCI_AD<24>
J4	PCI_AD25	PCI_AD<25>
K1	PCI_AD26	PCI_AD<26>
J2	PCI_AD27	PCI_AD<27>
J1	PCI_AD28	PCI_AD<28>
H2	PCI_AD29	PCI_AD<29>
H4	PCI_AD30	PCI_AD<30>
H1	PCI_AD31	PCI_AD<31>
K12	PCI_CBE0*	PCI_C_BE_L<0>
M9	PCI_CBE1*	PCI_C_BE_L<1>
L3	PCI_CBE2*	PCI_C_BE_L<2>
L1	PCI_CBE3*	PCI_C_BE_L<3>
N10	PCI_PAR	PCI_PAR
N6	PCI_FRAME*	PCI_FRAME_L
M6	PCI_IRDY*	PCI_IRDY_L
N7	PCI_TRDY*	PCI_TRDY_L
N8	PCI_DEVSEL*	PCI_DEVSEL_L
M7	PCI_STOP*	PCI_STOP_L
L2	PCI_IDSEL	FW_PCI_IDSEL
E2	PCI_REQ*	PCI_REQ3_L
E1	PCI_GNT*	PCI_GNT3_L
M8	PCI_PERR*	PCI_PERR_L
N9	PCI_SERR*	PCI_SERR_L
G2	PCI_CLK	PCI_CLK_FW
D1	CLKRUN*	PM_CLKRUN_L
F1	PCI_RST*	FW_PCI_RST_L
D2	PCI_INTA*	INT_PIRQD_L
E2	PCI_PME*	PCI_PME_FW_L

R4431 22 5% 1/16W MF-LF 402

R4432 100 1% 1/16W MF-LF 402

THIS IS FROM ICH-7M

PLACE R4432 VERY CLOSE TO PIN B18 OF U2100

197S0030 3.2MMX2.5MM
CRITICAL
Y4403 SM-3.2X2.5MM 24.576MHZ

R4400 390 5% 1/16W MF-LF 402
C4411 15PF 5% 50V CERM 402
C4412 15PF 5% 50V CERM 402

NEED TO CHECK CRYSTAL LOAD CAPACITANCE

XI	A5	FW_XI
XO	B5	FW_XO
RESET*	B4	FW_PWRON_RST_L
R1	A6	FW_R1
R0	B7	FW_R0
TPBIAS0	B8	FW_A_TPBIAS
TPA0_P	A9	FW_A_TPA_P
TPA0_N	B9	FW_A_TPA_N
TPB0_P	B10	FW_A_TPB_P
TPB0_N	A10	FW_A_TPB_N
TPBIAS1	D8	FW_B_TPBIAS
TPA1_P	A11	FW_B_TPA_P
TPA1_N	B11	FW_B_TPA_N
TPB1_P	B12	FW_B_TPB_P
TPB1_N	A12	FW_B_TPB_N
TPBIAS2	C13	FW_C_TPBIAS
TPA2_P	C11	FW_C_TPA_P
TPA2_N	C12	FW_C_TPA_N
TPB2_P	D13	FW_C_TPB_P
TPB2_N	D12	FW_C_TPB_N

SPEC RECOMMENDS 2.49K

R4452 2.1K 1% 1/16W MF-LF 402
C4420 0.1UF 10% 10V X5R 402
R4420 510K 5% 1/10W MF-LF 402

MODE_420	M5	MODE FOR EXTERNAL LINK
MODE_A	B6	
PC0	E12	FW_PC0
PC1	F13	
PC2	F12	
CONTENDER	G12	LOW = NOT BUS MANAGER
CARDBUSN	B1	LOW = PCI OPERATION
MPCI_ACTN_323	E10	

DUAL PORT DEVICES ARE POWER CLASS 4 (’100’)
SINGLE PORT DEVICES ARE POWER CLASS 0 (’000’)

MANUFACTURING TEST PINS

TEST0	C2
TEST1	C1
PTEST	A4
SE	A3
SM	B3

VSS0	A1	
VSS1	B2	
VSS2	C3	
VSS3	D4	
VSS4	E4	
VSS5	E5	
VSS6	F4	
VSS7	F6	
VSS8	F7	
VSS9	F8	
VSS10	G1	
VSS11	G6	
VSS12	G7	
VSS13	G8	
VSS14	H6	
VSS15	H7	
VSS16	H8	
VSS17	J5	
VSS18	J9	
VSS19	J10	
VSS20	K8	
VSS21	K9	
VSS22	N13	
VSSA0	E13	
VSSA1	E9	
VSSA2	D9	
VSSA3	D7	
VSSA4	D5	

FIREWIRE CONTROLLER

SYNC_MASTER=ENET SYNC_DATE=08/30/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 38 OF 79	

Page Notes

INPUT:

=PPBUS_FW - PORT POWER

=PP3V3_S5_FW - DIGITAL POWER

=GND_CHASSIS_FW_PORT0 - CHASSIS GROUND

=FWPWR_PWRON - ADDITIONAL POWER CONTROL

INPUT/OUTPUT:

FW_TPA0_P/N,FW_TPB0_P/N,FW_TPBIAS0 - FIREWIRE DIFF PAIRS

OUTPUT:

FW_PC0 - POWER CLASS IDENTIFIER (SINGLE PORT - TIE LOW)

PAGE HISTORY

5/19/05 - INITIAL REVISION
6/22/05 - CHANGED DIFF PAIR NAMES TO MATCH REUSE
6/22/05 - REMOVED CONSTRAINTS BECAUSE USING ALLEGRO CONST MANAGER
6/22/05 - CONNECTED FW_PC0 FOR SINGLE PORT
7/26/05 - UPDATED LATE-VG POWER RAIL CIRCUIT FROM M1
7/26/05 - CHANGED CONNECTOR PORT NAMING TO PORT0
7/26/05 - SWITCHED TO 514-0124 FOR PRE-PROTO CONNECTOR
7/26/05 - REMOVED R4520 - IT HASN'T BEEN STUFFED FOR MANY PRODUCTS
7/26/05 - CHANGED FL4590 TO 1.1A VERSION
7/26/05 - REMOVED ETHERNET LOW-POWER MODE CIRCUIT
7/26/05 - UPDATED SIGNAL NAMES FOR FW PORT POWER ENABLE

1394b implementation based on Apple
FireWire Design Guide (FWDG 0.6, 5/14/03)

PORT POWER CLASS

0 FOR SINGLE PORT
1 FOR DUAL PORT

38A3 OUT FW_PC0

PPBUS_S5_FWPWRSW_F
VOLTAGE=18.5V
MIN_LINE_WIDTH=0.5MM
MIN_NECK_WIDTH=0.25MM

64C1 =PPBUS_S5_FWPWRSW

FL4590
1.1A-24V
MINISMDC

Q4590
FDC638P
SM-LF

PPFW_SWITCH 58Z
VOLTAGE=19V
MIN_LINE_WIDTH=0.5MM
MIN_NECK_WIDTH=0.25MM

D4590
SMB
B340LBXF

64A6 =PP3V3_S0_FW

R4590 470K 5% 1/16W MF-LF 402
C4590 0.01uF 10% 16V CERM 402

FWPWR_EN_L_DIV
MIN_LINE_WIDTH=0.05MM
MIN_NECK_WIDTH=0.05MM

R4593 100K 5% 1/16W MF-LF 402

D4591 BAS16TW-X-F SOT-363

FWPWR_RUN

R4591 330K 5% 1/16W MF-LF 402

FWPWR_EN_L 60C8
MIN_LINE_WIDTH=0.05MM
MIN_NECK_WIDTH=0.05MM

IF =FWPWR_PWRON IS NC:
ENABLES PORT POWER WHEN MACHINE IS RUNNING OR ON AC
IF =FWPWR_PWRON LOW WHEN OFF:
ENABLES PORT POWER WHEN MACHINE IS RUNNING OR ON AC AND NOT SHUTDOWN

6D2 =FWPWR_PWRON

D4591 BAS16TW-X-F SOT-363

Q4591 2N7002 SOT23-LF

FWPWR_EN

65C3 46B3 45D5 5C1 SMC_PS_ON

R4594 10K 5% 1/16W MF-LF 402

FWPWR_ACIN

D4591 BAS16TW-X-F SOT-363

R4595 470K 5% 1/16W MF-LF 402

Enables port power whenever
machine AC Adapter is plugged
or system at run state with battery only

Cable Power

PPFW_PORT0_VP_F
VOLTAGE=16.5V
MIN_LINE_WIDTH=0.5MM
MIN_NECK_WIDTH=0.25MM

L4510 FERR-250-OHM SM

PPFW_PORT0_VP
VOLTAGE=16.5V
MIN_LINE_WIDTH=0.5MM
MIN_NECK_WIDTH=0.25MM

C4510 0.001uF 10% 50V CERM 402

"Snapback" & "Late VG" Protection

39A6 PP3V3_S5_FWLATEVG

D4520 BAV99DW-X-F SOT-363

C4520 0.01UF 10% 16V CERM 402

C4521 0.01UF 10% 16V CERM 402

D4520 BAV99DW-X-F SOT-363

120-OHM 2012 SYM_VER-2

FL4520

FW_PORT0_TPA_P
FW_PORT0_TPA_N
FW_PORT0_TPB_P
FW_PORT0_TPB_N

FW_PORT0_TPA_P_FL
FW_PORT0_TPA_N_FL
FW_PORT0_TPB_P_FL
FW_PORT0_TPB_N_FL

D4521 BAV99DW-X-F SOT-363

C4522 0.01UF 10% 16V CERM 402

C4523 0.01UF 10% 16V CERM 402

D4521 BAV99DW-X-F SOT-363

120-OHM 2012 SYM_VER-2

FL4521

C4524 0.01uF 10% 50V X7R 603-1

C4525 0.01uF 10% 16V CERM 402

PORT 0
1394A
OMIT
CRITICAL
J4500
1394A
F-RT-TH1

TPO (TPA+)
TPO# (TPA-)
TPI (TPB+)
TPI# (TPB-)
VP (PPFW_PORT0_VP)
VGND (GND_FW_PORT0_VGND)

=GND_CHASSIS_FW_UPPER 6A6
Plexi: 514-0124
Enclosure: 514-0289
=GND_CHASSIS_FW_DOWN 6C8

[LATE VG NOTES]
CURRENT THROUGH THE BIAS RESISTOR SHOULD BE 5MA FOR A VOLTAGE DROP TO 2.2V
IT IS 2.2V INSTEAD OF 2.7V BECAUSE THE SNAPBACK ESD DIODES HAVE A 0.5V DROP

3883 FW_A_TPBIAS

R4500 56.2 1% 1/16W MF-LF 402
R4501 56.2 1% 1/16W MF-LF 402
C4500 0.33UF 10% 6.3V CERM-X5R 402

3883 FW_A_TPA_P
3883 FW_A_TPA_N
3883 FW_A_TPB_P
3883 FW_A_TPB_N

R4502 56.2 1% 1/16W MF-LF 402
R4503 56.2 1% 1/16W MF-LF 402

FW_PORT0_TPB

C4501 220PF 5% 25V CERM 402

R4504 4.99K 1% 1/16W MF-LF 402

LATE-VG PROTECTION POWER

64A3 =PP3V3_S5_FWLATEVG

R4550 330 5% 1/16W MF-LF 402

PP3V3_S5_FWLATEVG_F
VOLTAGE=3.3V
MIN_LINE_WIDTH=0.35MM
MIN_NECK_WIDTH=0.25MM

L4550 400-OHM-EMI SM-1

NO STUFF
C4551 0.1uF 20% 16V CERM 402

NO STUFF
C4552 0.001uF 10% 50V CERM 402

D4550 SOT23 MMBZ5227B

PP3V3_S5_FWLATEVG
VOLTAGE=3.3V
MIN_LINE_WIDTH=0.35MM
MIN_NECK_WIDTH=0.25MM
39B5

CAPS MAY NOT BE NECESSARY.
NO STUFF FOR NOW THOUGH

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
514-0359	1	CONN,6P 1394A RCPT,MIDPLANE,MG3,LF	J4500	CRITICAL	NORMAL
514-0316	1	CONN,6P 1394A RCPT,MIDPLANE,BLACK,LF	J4500	CRITICAL	FANCY

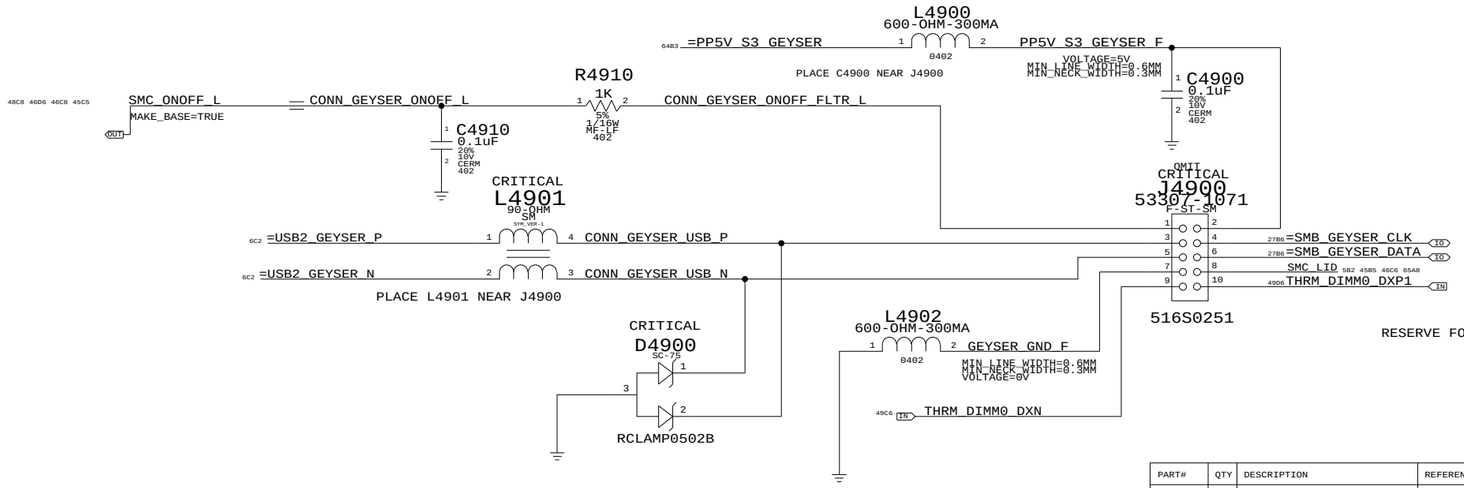
FIREWIRE PORT

SYNC_MASTER=ENET SYNC_DATE=11/16/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 39 OF 79	

GEYSER AND DIMM0 REMOTE TEMP SENSORS



PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
516S0482	1	ACES 88646-1071-NS	J4900	CRITICAL	NORMAL
516S0482	1	ACES 88646-1071-NS	J4900	CRITICAL	FANCY

CONNECTOR MISC

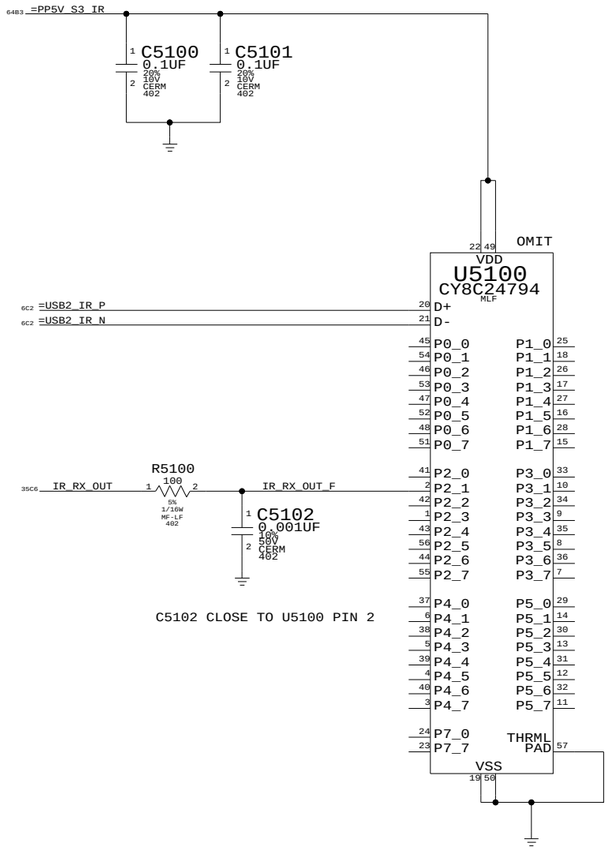
SYNC_MASTER=ENET SYNC_DATE=11/16/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A

SCALE	SHT	OF
NONE	40	79

PLACE C5100 AND C5101
NEAR U5100 PIN 22 AND 49



IR CONTROLLER

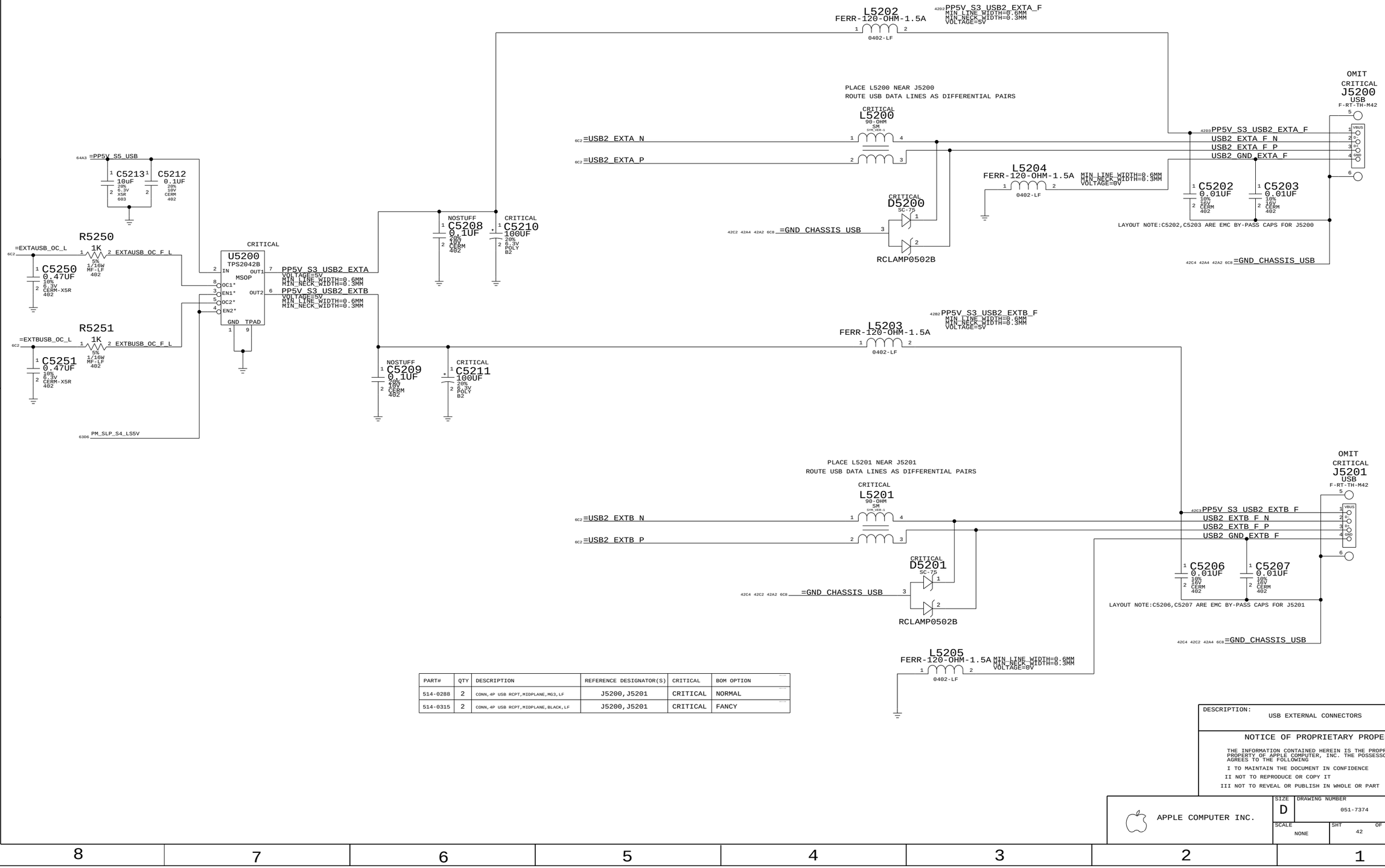
SYNC_MASTER=ENET SYNC_DATE=11/09/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A

SCALE	SHT	OF
NONE	41	79

USB 2.0 CONNECTORS

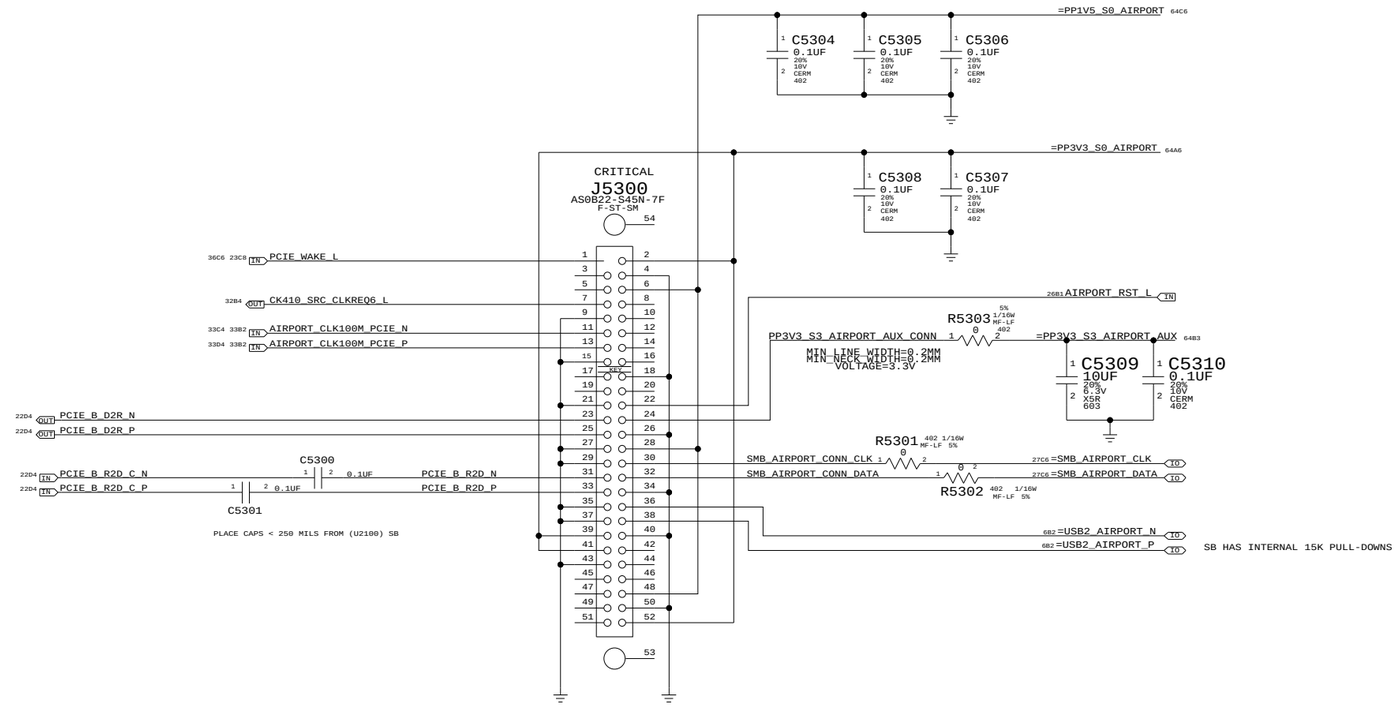


PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
514-0288	2	CONN,4P USB RCPT,MIDPLANE,MG3,LF	J5200,J5201	CRITICAL	NORMAL
514-0315	2	CONN,4P USB RCPT,MIDPLANE,BLACK,LF	J5200,J5201	CRITICAL	FANCY

DESCRIPTION:
USB EXTERNAL CONNECTORS

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 42 OF 79	



CONNECT TO M35 MODULE

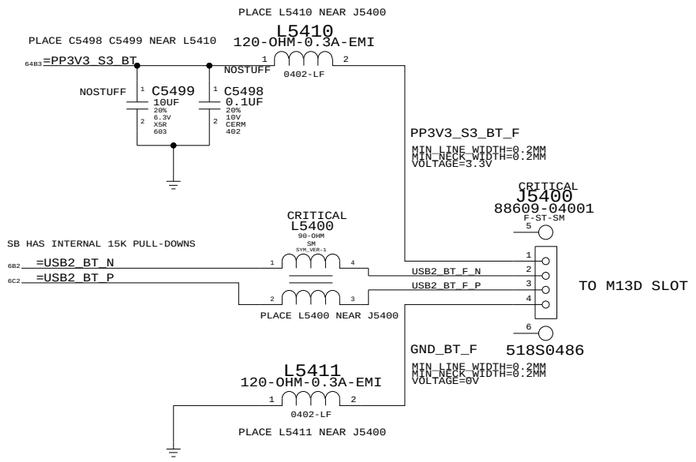
Plexi: 516S0363
* Enclosure: 516S0406

AIRPORT CONN

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A

SCALE	SHT	OF
NONE	43	79



BLUETOOTH INTERFACE

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D	051-7374	A
SCALE	SHT	OF
NONE	44	79

OMIT

U5800
SMC_H8S2116
BGA
(1 OF 4)

	PM_LAN_ENABLE	B12	P10	P60/KIN0*	L13	63C8	SMC_PM_G2_EN
	SMC_RSTGATE_L	C13	P11	P61/KIN1*	L14	65C3 46B3 39C6 5C1	SMC_PS_ON (Enable AC adapter PWR)
63B1 26A5 5B2	ALL_SYS_PWRGD	A15	P12	P62/KIN2*	L15	22C6	SPI_ARB
59A1 46D6	RSMRST_PWRGD	B14	P13	P63/KIN3*	K12	58C7 22C6	SPI_SCLK
23C3	SMC_SB_NMI	B15	P14	P64/KIN4*	K13	58C1 22C6	SPI_SI
23C1	PM_RSMRST_L	C14	P15	P65/KIN5*	K14	58C1 22C6	SPI_SO
58C7	IMVP_VR_ON	D12	P16	P66/IRQ6*/KIN6*	J12	46C1	SMC_PROCHOT_3_3_L
23C3	PM_PWRBTN_L	C15	P17	P67/IRQ7*/KIN7*	J13	6B1	SMC_CPU_INIT_3_3_L
46C6	SMC_P20	D13	P20	P70/AN0	N12	48C1	SMC_CPU_ISENSE
46C6	SMC_P21	D14	P21	P71/AN1	R13	48B1 5B2	SMC_CPU_VSENSE
46C6	SMC_P22	D15	P22	P72/AN2	P13	46C6	SMC_GPU_ISENSE
46C6	SMC_P23	E12	P23	P73/AN3	R14	46C6	SMC_GPU_VSENSE
66A3 46B6 5C1	SMC_BATT_TRICKLE_EN_L	E14	P24	P74/AN4	P14	66C2	SMC_DCIN_ISENSE
66A4 46B6 5C1	SMC_BATT_CHG_EN	E15	P25	P75/AN5	R15	48C1	SMC_PBUS_VSENSE
46C6	SMC_P26	E13	P26	P76/AN6	N13	66B1	SMC_BATT_ISENSE
46C6	SMC_P27	F14	P27	P77/AN7	P15	46B1	SMC_FWIRE_ISENSE
53C6 47C6 21D4 5D2	LPC_AD<0>	D9	P30/LAD0	P80/PME*	C7	23C1	SMC_WAKE_SCI_L
53C6 47C6 21D4 5D2	LPC_AD<1>	C9	P31/LAD1	P81/GA20	A7	46B2	SMC_TPM_GPIO
53C6 47C5 21D4 5C2	LPC_AD<2>	A9	P32/LAD2	P82/CLKRUN*	B7	47C6 38A5 53C6 23C8 5C2	PM_CLKRUN_L
53C6 47C5 21D4 5C2	LPC_AD<3>	B9	P33/LAD3	P83/LPCPD*	D6	47C5 46D3 53C6 23C5 5C2	PM_SUS_STAT_L
53C6 47C6 21C5 5C2	LPC_FRAME_L	D8	P34/LFRAME*	P84/IRQ3*/TXD1	C6	46B1	SC_TX_L (Serial Port Transmit)
26B1	SMC_LRESET_L	C8	P35/LRESET*	P85/IRQ4*/RXD1	A6	46B1	SC_RX_L (Serial Port Receive)
33D6	PCI_CLK_SMC	A8	P36/LCLK	P86/IRQ5*/SCK1/SCL1	B6	27B3	SMB_BSB_CLK (BAT B SMBUS CLK)
53C6 47C5 23C8 5C2	INT_SERIRQ	D7	P37/SERIRQ	P90/IRQ2*	K4	48C8 46D6 46C8 40C8	SMC_ONOFF_L
	SMC_DISPLAY_ENABLE	A5	P40/TMIO	P91/IRQ1*	J2	65C7 65C3 46B6 5C1	SMC_BC_ACOK (AC I/P detect)
46A4	SMC_SYS_LED_16B	B5	P41/TMO0	P92/IRQ0*	J1	65A2 46C6 5D1	SMC_BS_ALRT_L
27B3	SMB_BSB_DATA (BAT B SMBUS DATA)	D5	P42/SDA1	P93/IRQ12*	J3	63B8 63A7 23C3	PM_SLP_S3_L
53C7	SMC_TPM_PP (TPM physical presence)	C3	P43/TMI1/EXSCK1	P94/IRQ13*	J4	63D6 61B8 60C8 23C3	PM_SLP_S4_L
46C6	SMC_P44	B1	P44/TMO1	P95/IRQ14*	H2	46D3 23C3	PM_SLP_S5_L
	SMC_BKLIGHT_ENABLE	C2	P45	P96/EXCL	H1	46A6	SMC_SUS_CLK
46C6	SMC_P46	D3	P46/PWX0/PWM0	P97/IRQ15*/SDA0	G2	27D6	SMB_0_DATA
46C6	SMC_SYS_KBDLED	C1	P47/PWX1/PWM1				
47B6 46D6 46B2 5C2	SMC_TX_L (Debug feature,16550 Transmit)	G1	P50				
47B5 46D6 46B2 5C2	SMC_RX_L (Debug feature,16550 Receive)	G4	P51				
27D6	SMB_0_CLK	F2	P52/SCL0				

OMIT

U5800
SMC_H8S2116
BGA
(2 OF 4)

21C3	SMC_RCIN_L	R3	PA0/KIN8*/PA2DC	PE0	M3		SMC_CASE_OPEN (CASE OPEN/CLOSE DETECT) 46B3
47C6 22B3 5C2	BOOT_LPC_SPI_L	P3	PA1/KIN9*/PA2DD	PE1*/ETCK	M2	47C5 46C6 5C2	SMC_TCK
26C5 23C5	PM_SYSRST_L	R2	PA2/KIN10*/PS2AC	PE2*/ETDI	M1	47C5 46C6 5C2	SMC_TDI
53B7 46D6	SMC_TPM_RESET_L	N3	PA3/KIN11*/PS2AD	PE3*/ETDO	L4	47B6 46C6 5C2	SMC_TDO
14B7 6B2	PM_EXTTS_L<0>	R1	PA4/KIN12*/PS2BC	PE4*/ETMS	L2	47C6 46C6 5C2	SMC_TMS
23C8	PM_THRM_L	N2	PA5/KIN13*/PS2BD	PF0/IRQ8*/PWM2	M7		SMC_DISP_BKLT_B 46C3
65C8 46D6 5C1	SYS_ONEWIRE	M4	PA6/KIN14*/PS2CC	PF1/IRQ9*/PWM3	P6		SMC_DISP_BKLT_A
23C1	PM_BATLOW_L	N1	PA7/KIN15*/PS2CD	PF2/IRQ10*/TMOY	R6	65A8 46C6 40C4 5B2	SMC_LID (LID OPEN/CLOSE SW)
23B8	SMC_EXTSMI_L	B10	PB0/LSMI*	PF3/IRQ11*/TMOX	N6	46C1	SMC_CPU_RESET_3_3_L
23C8	SMC_RUNTIME_SCI_L	A10	PB1/LSCI	PF4/PWM4	M6	66B7 5C1	SMC_BATT_ISET
34B3	SMC_ODD_DETECT (Optical Disk Insert detect)	D10	PB2	PF5/PWM5	R5		SMC_BATT_VSET 46C3
48A8	ISENSE_CAL_EN	A11	PB3	PF6/PWM6	P5	66D7	SMC_SYS_ISET
46C3	SMC_EXCARD_CP	B11	PB4	PF7/PWM7	N5		SMC_SYS_VSET 46C3
46C3	SMC_EXCARD_PWR_EN	C11	PB5	PG0/EXIRQ8*/TMIX	P9	58C7 22C6	SPI_CE_L
46D3	SMC_EXCARD_PWR_OC_L	A12	PB6	PG1/EXIRQ9*/TMIY	R9		SMC_PG1 46C6
46C6	SMC_PB7	D11	PB7	PG2/EXIRQ10*/SDA2	N9	27C3	SMB_BSA_DATA
46C3	SMC_FAN_0_CTL	G14	PC0/TIOCA0/WUE8*	PG3/EXIRQ11*/SCL2	P8	27C3	SMB_BSA_CLK
51B4 5D2	SMC_FAN_1_CTL	G15	PC1/TIOCB0/WUE9*	PG4/EXIRQ12*/EXSDAA	R8	27D3	SMB_RMT_DATA
46C3	SMC_FAN_2_CTL	G13	PC2/TIOCC0/TCLKA/WUE10*	PG5/EXIRQ13*/EXSCLA	M8	27D3	SMB_RMT_CLK
46C3	SMC_FAN_3_CTL	G12	PC3/TIOCD0/TCLKB/WUE11*	PG6/EXIRQ14*/EXSDAB	P7	27B6	SMB_MLB_DATA
46C3	SMC_FAN_0_TACH	H14	PC4/TIOCA1/WUE12*	PG7/EXIRQ15*/EXSCLB	R7	27C6	SMB_MLB_CLK
51C4 5D2	SMC_FAN_1_TACH	H15	PC5/TIOCB1/TCLKC/WUE13*	PH0/EXIRQ6*	E1	46B6	SMC_PROCHOT
46C3	SMC_FAN_2_TACH	H13	PC6/TIOCA2/WUE14*	PH1/EXIRQ7*	F3	46B5	SMC_THRMTRIP
46C3 5A7	SMC_FAN_3_TACH	H12	PC7/TIOCB2/TCLKD/WUE15*	PH2/FWE	K2		SMC_FWE 46C6
52C2	SMS_X_AXIS	M11	PD0/AN8	PH3/EXEXCL	C4		ALS_GAIN 46C6
52C2	SMS_Y_AXIS	P11	PD1/AN9	PH4	D4	46D6 23C3	SMS_INT_L
52C2	SMS_Z_AXIS	R11	PD2/AN10	PH5	B3	52C7	SMS_ONOFF_L
46C3	SMC_PD3 (ANALOG_ID)	N11	PD3/AN11				
62A5 46B3	SMC_NB_ISENSE	P10	PD4/AN12				
61C1 46B3	SMC_MEM_ISENSE	R10	PD5/AN13				
46C3 5A7	ALS_LEFT	N10	PD6/AN14				
46C3	ALS_RIGHT	M10	PD7/AN15				

OMIT

U5800
SMC_H8S2116
BGA
(4 OF 4)

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

64D1 48C8 46D8 46D5 46D1 45D3 45D2 =PP3V42_G3H_SMC

CRITICAL
C5802 22UF 20% 6.3V CERM-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 R5899, C5820 NEAR SMC PIN N14, N15

(VCL IS INTERNAL RAIL)
SMC_VCL

64D1 48C8 46D8 46D5 46D1 45D3 45D2 =PP3V42_G3H_SMC

C5807 0.47UF 10% 6.3V CERM-X5R 402

LAYOUT NOTE:
PLACE C5807 NEAR PIN F1

64D1 48C8 46D8 46D5 46D1 45D3 =PP3V42_G3H_SMC

R5899 4.7 5% 1/16W MF-LF 402

R5809 10K 5% 1/16W MF-LF 402

R5801 10K 5% 1/16W MF-LF 402

PP3V3_AVREF_SMC 46C6

SMC_AVCC_RC

C5820 0.1UF 10% 16V CERM 402

66C2 66B1 62A5 61C1 48C1 48B5 48A1 46B6 45C2 GND_SMC_AVSS

47B6 5C2 SMC_MD1 (Should PD) (To debug card for mode select)
KBC_MDE (Should PU)

R5802 10K 5% 1/16W MF-LF 402

R5803 0 5% 1/16W MF-LF 402

NOSTUFF

AVCC N14, AVCC N15, VCC P2, VCC P1, VCC J15, VCC A1, VCC F1, VCL M14, AVREF M15, AVREF

OMIT
U5800
SMC_H8S2116
BGA
(3 OF 4)

47C5 46D7 5C2 SMC_RST_L → E3 RES*
46C7 SMC_XTAL → A2 XTAL
46C7 SMC_EXTAL → B2 EXTAL

MD1 E2
MD2 K1
NMI F4 (Should PD) (To debug card for mode select) 47B5 5C2 SMC_NMI
ETRST* L1 47C6 5C2 SMC_TRST_L

AVSS P12, R12

VSS: D1, F4, R4, F12, F13, B13, A13, A4, B4, D2

R5898 10K 5% 1/16W MF-LF 402

XW5800 SM 1 2

GND_SMC_AVSS 45C4 46B6 48A1 48B5 48C1 61C1 62A5 66B1 66C2

SMC

SYNC_MASTER=SMC SYNC_DATE=08/18/2005

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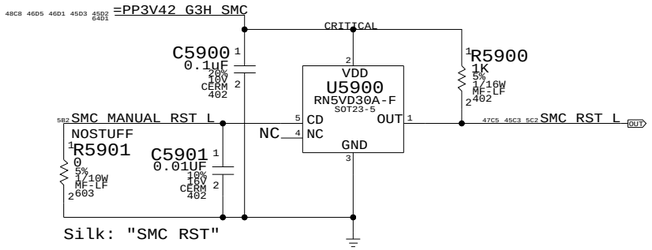
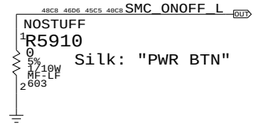
SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 45 OF 79	

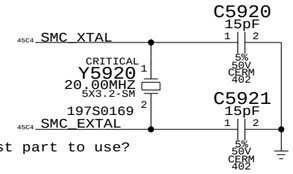
SMC Reset Button / Brownout Detect



Debug Power Button

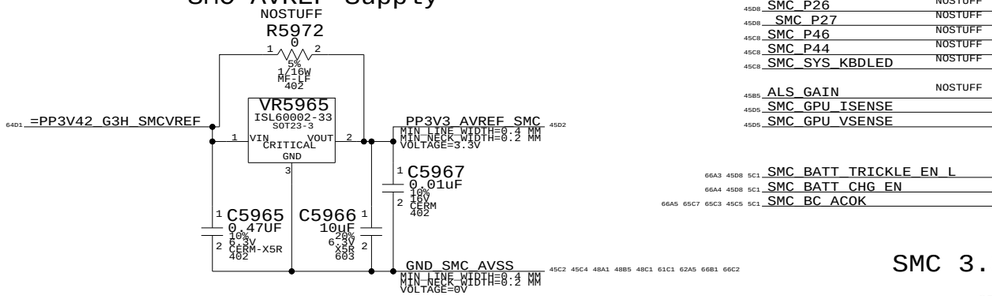


SMC Crystal Circuit



Is this the best part to use?

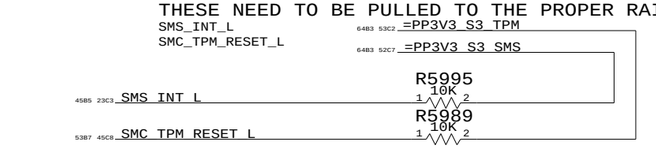
SMC AVREF Supply

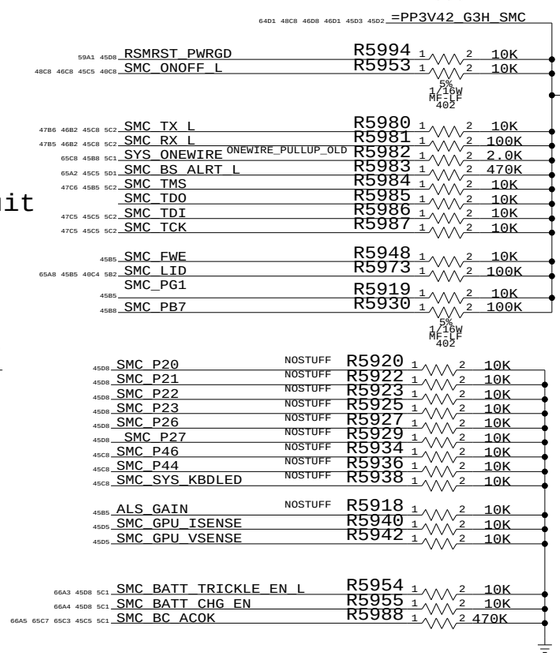


PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
353S1278	353S1381	?	VR5965	TI REF3133

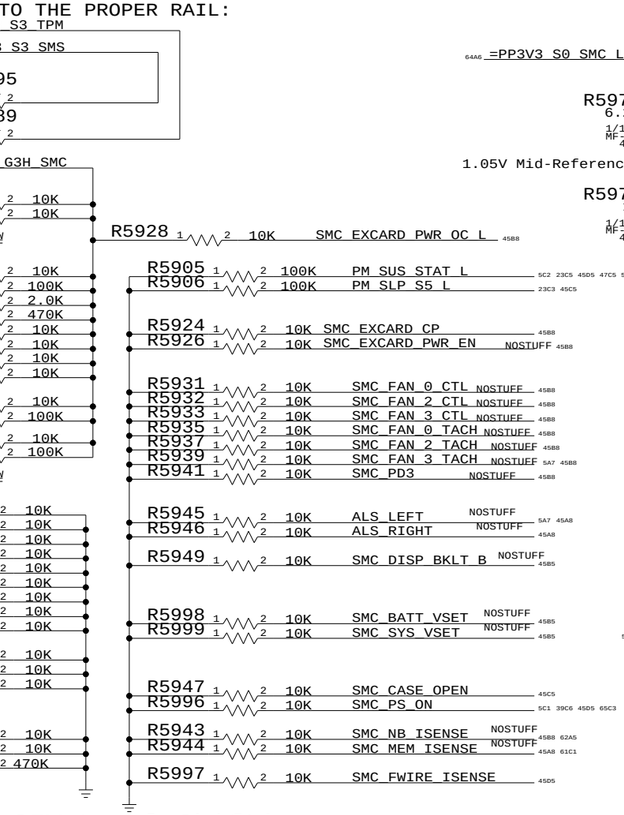
THESE NEED TO BE PULLED TO THE PROPER RAIL:

SMS_INT_L
SMC_TPM_RESET_L

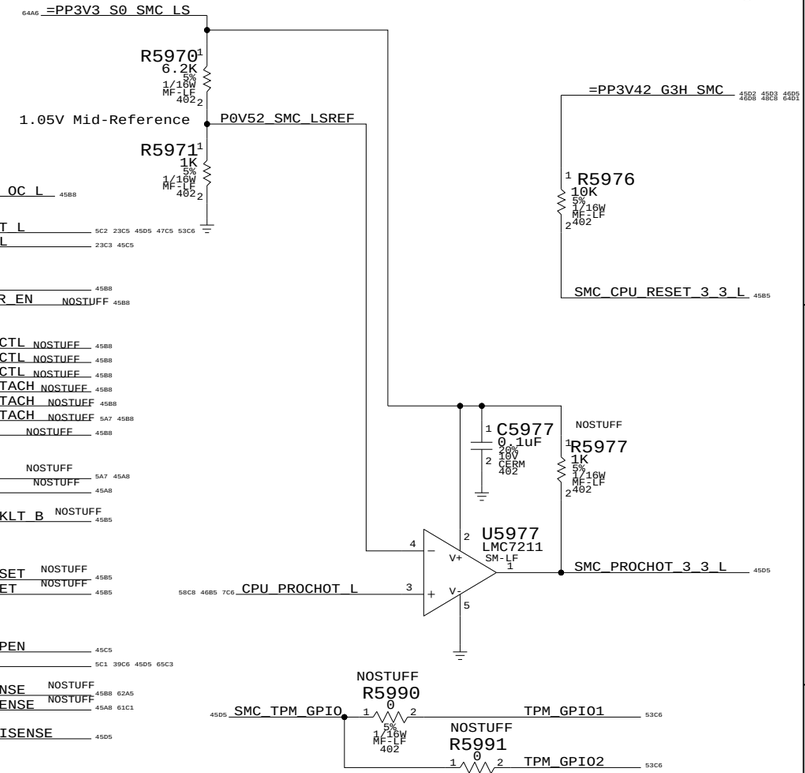




SMC 3.3V to 1.05V Level Shifting

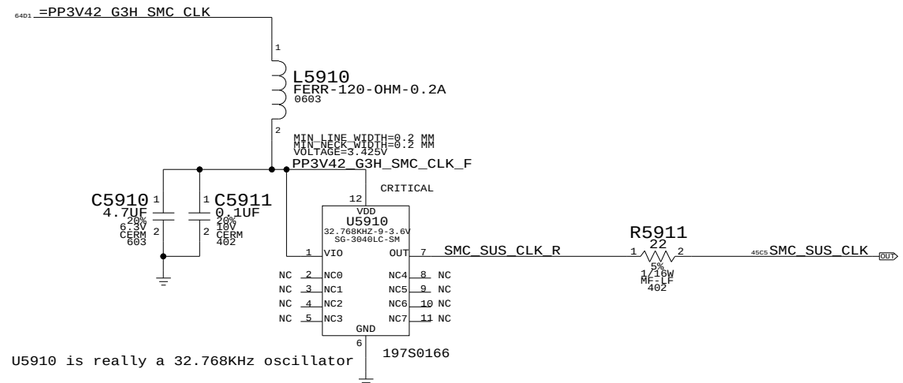


SMC 1.05V to 3.3V Level Shifting

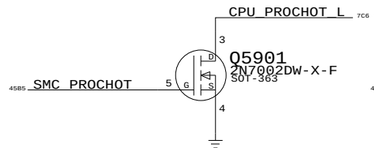


Stuff R5992, R5993 for development only

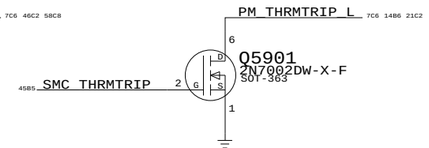
SMC G3HOT OSCILLATOR



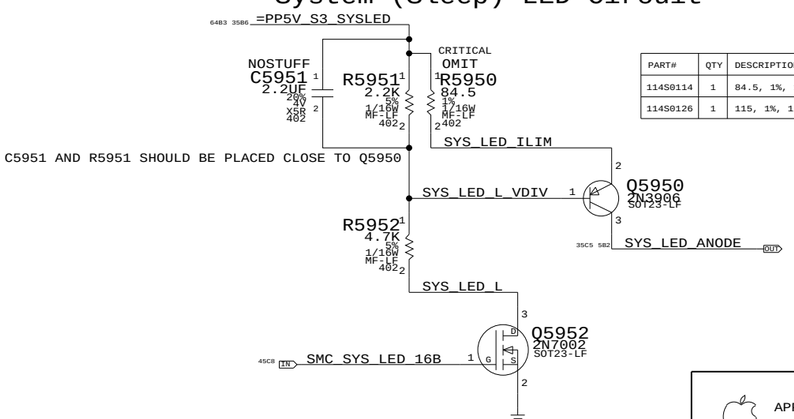
CPU_PROCHOT_L



PM_THRMTRIP_L



System (Sleep) LED Circuit



C5951 AND R5951 SHOULD BE PLACED CLOSE TO Q5950

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
114S0114	1	84.5, 1%, 1/16W, MF-LF, 402	R5950	NORMAL
114S0126	1	115, 1%, 1/16W, MF-LF, 402	R5950	FANCY

SMC SUPPORT

SYNC_MASTER=SMC SYNC_DATE=08/23/2005

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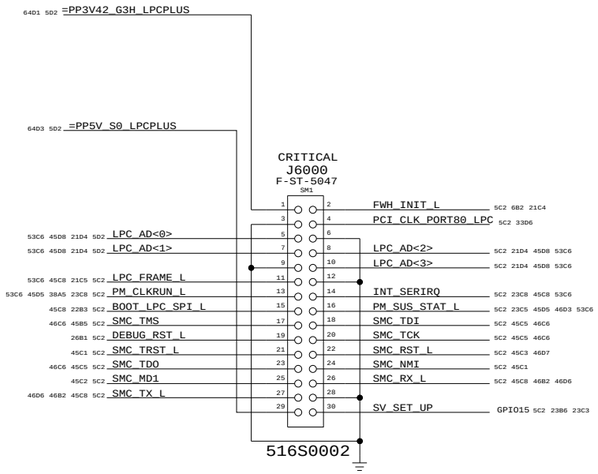
SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 46 OF 79	



LPC+ Debug Connector

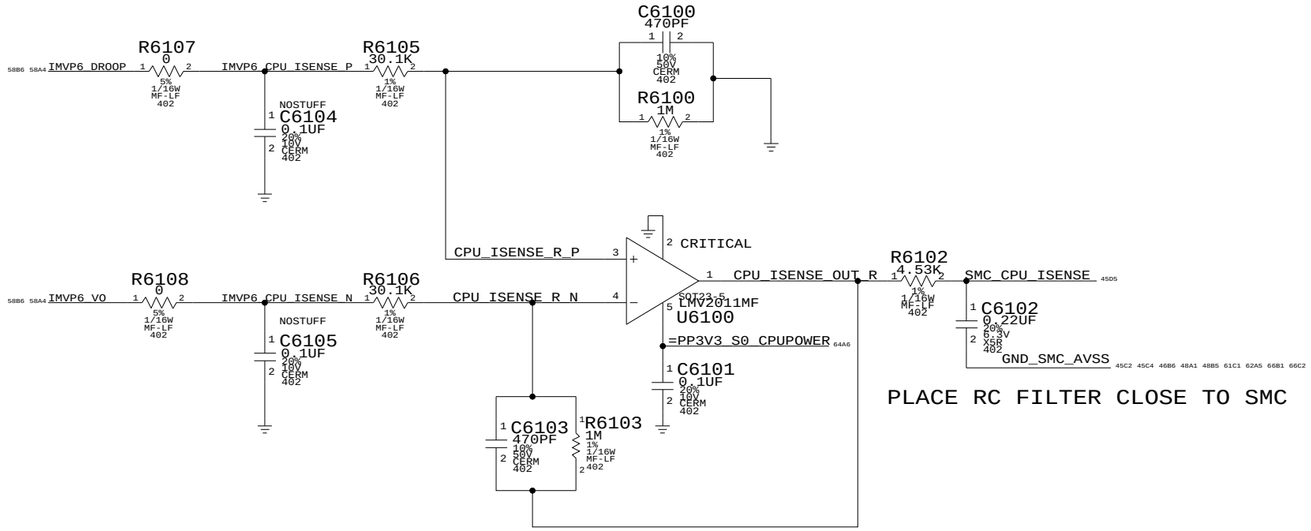
SYNC_MASTER=NB SYNC_DATE=06/30/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A

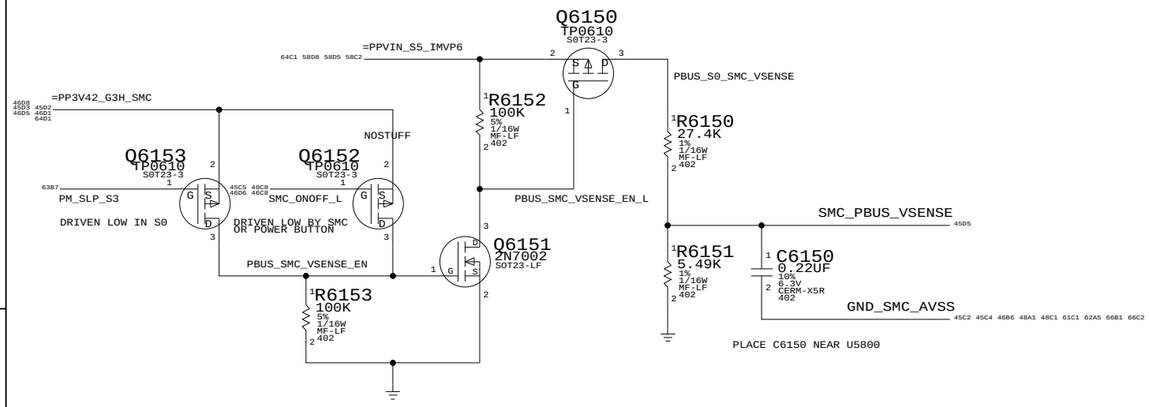
SCALE	SHT	OF
NONE	47	79

CPU CURRENT SENSE



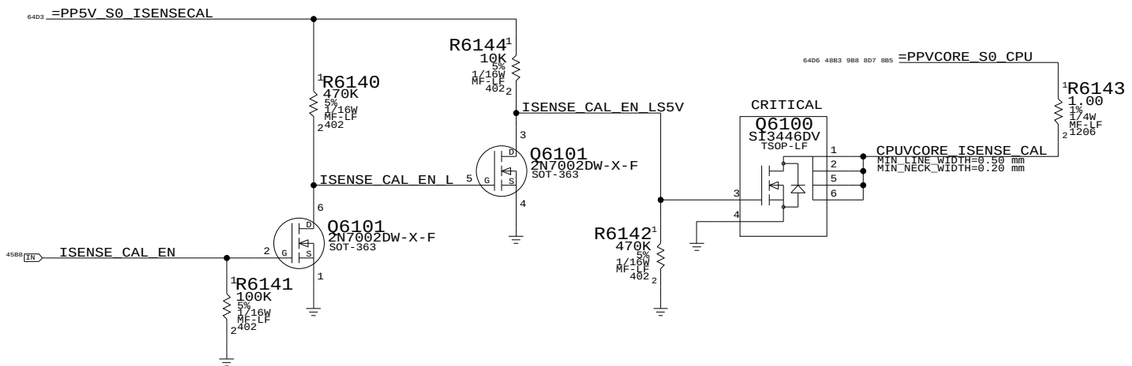
PLACE RC FILTER CLOSE TO SMC

PROCESSOR DCIN VOLTAGE SENSE

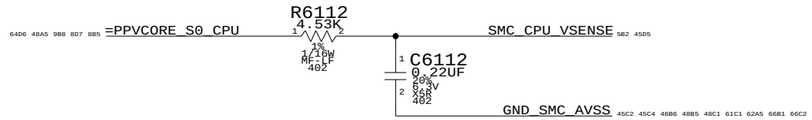


Current Sense Calibration Circuit

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



CPU VOLTAGE SENSE



PLACE RC FILTER CLOSE TO SMC

CPU Current & Voltage Sense

SYNC_MASTER=ENET SYNC_DATE=08/30/2005

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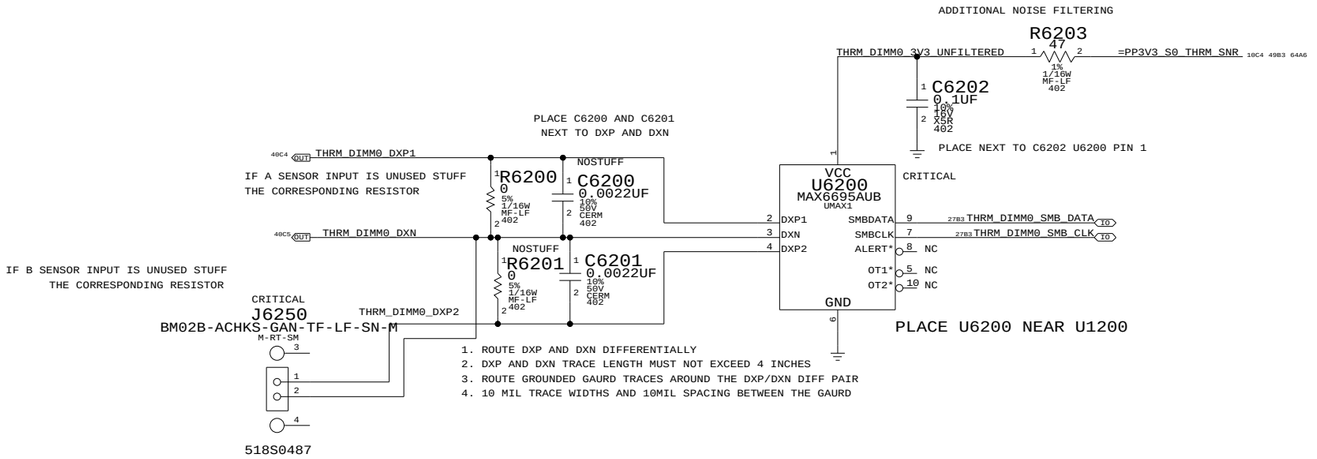
APPLE COMPUTER INC.

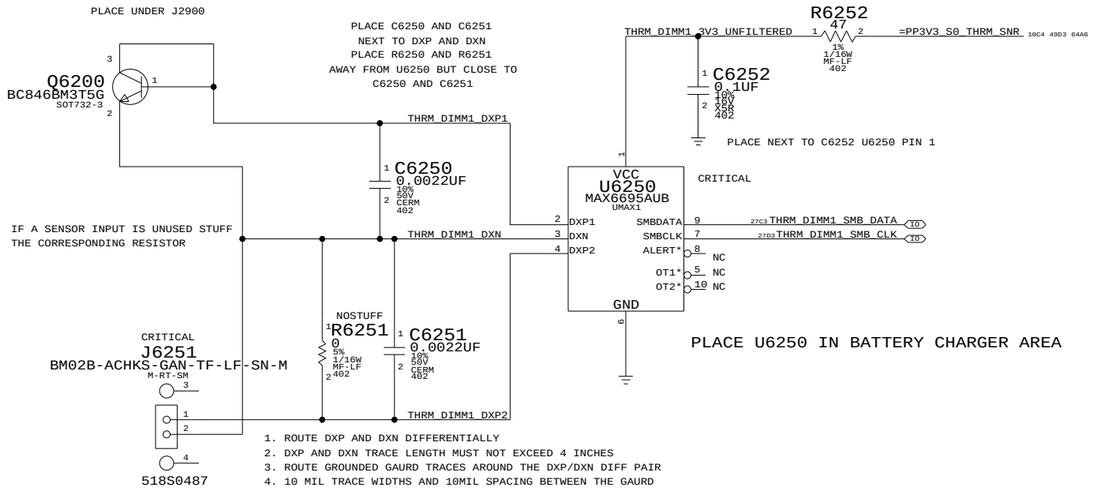
SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 48 OF 79	

DIMM0 TEMPERATURE ZONE



NOTE: REPLACE J6250 AND J6251 FROM 518S0332 TO 518S0452 AND THEN 518S0487
AFTER THIS CHANGE, THE SCHEAMTIC DOES NOT MATCH THE PCB ON THESE TWO LOCATIONS.

DIMM1 TEMPERATURE ZONE



NOTE: REPLACE J6250 AND J6251 FROM 518S0332 TO 518S0452 AND 518S0487
AFTER THIS CHANGE, THE SCHEAMTIC DOES NOT MATCH THE PCB ON THESE TWO LOCATIONS.

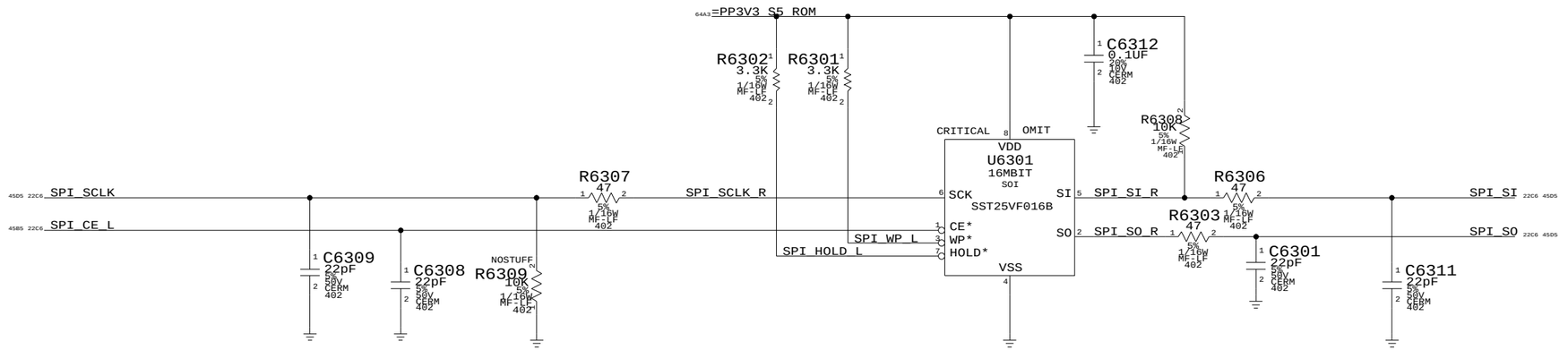
TEMPERATURE SENSE

SYNC_MASTER=ENET SYNC_DATE=11/09/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A

SCALE	SHT	OF
NONE	49	79



R6309 IS NOT NEEDED WHEN SHARING SPI FLASH WITH ICH7M AND TEKOA(LAN CHIP)

R6307 AND R6306 SHOULD BE PLACED LESS THAN 100 MILS FORM ICH7M

R6303 SHOULD BE PLACED LESS THAN 100 MILS FORM FLASH ROM

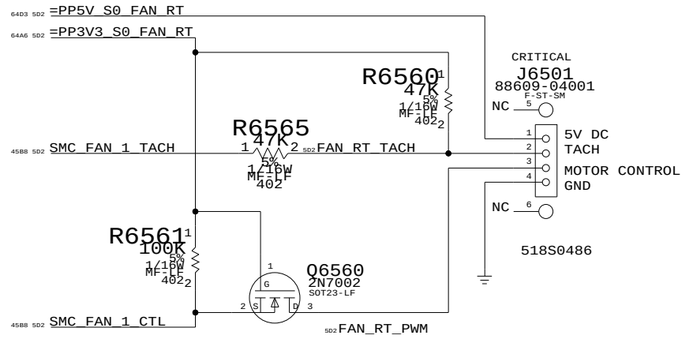
SPI BOOTROM

SYNC_MASTER=MASTER SYNC_DATE=5/23/05

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A

SCALE	SHT	OF
NONE	50	79



Fan

SYNC_MASTER=ENET SYNC_DATE=11/10/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 51 OF 79	

PAGE NOTES

INPUT

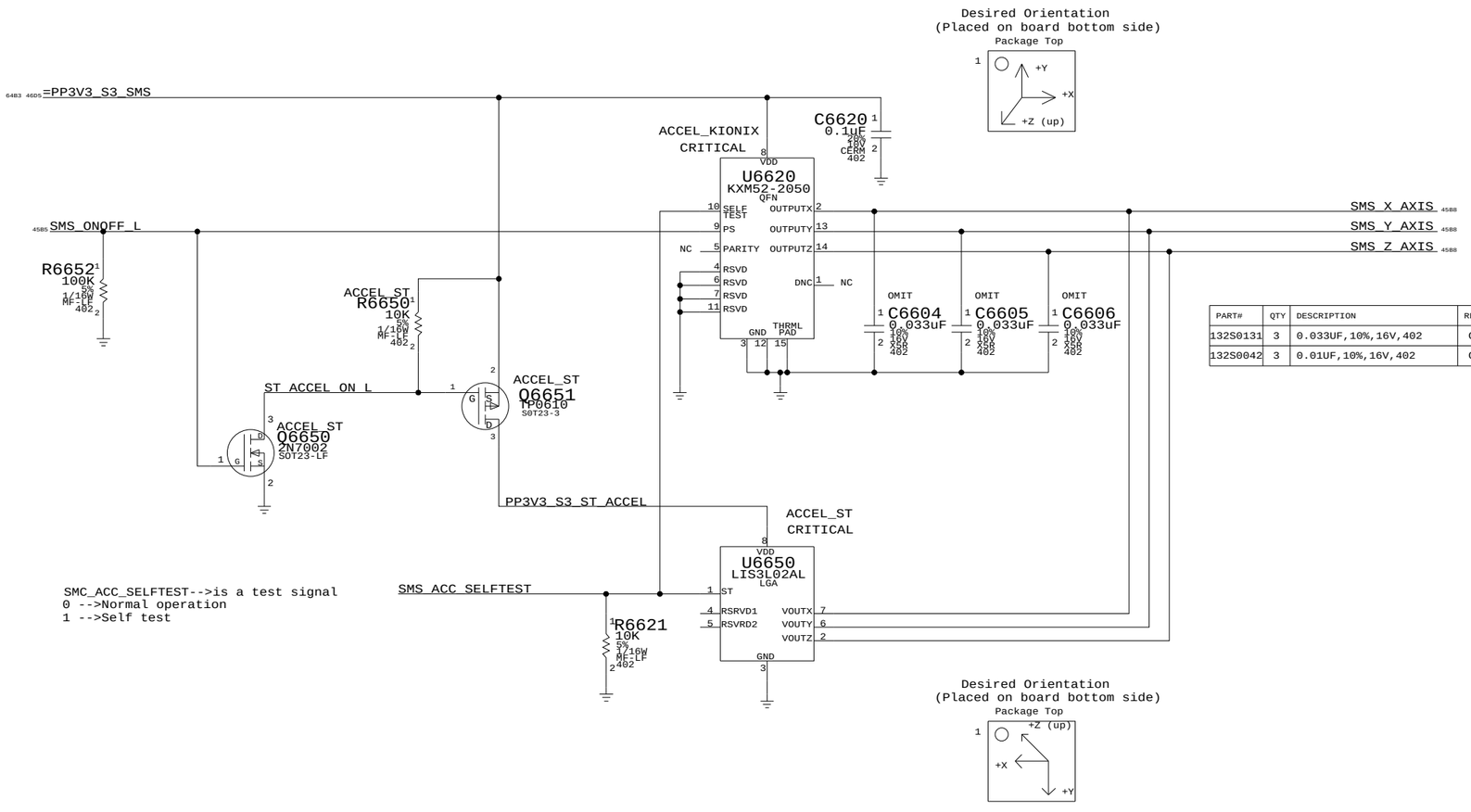
=PP3V3_S3_SMS - 3.3V POWER FOR SMS (STAYS ALIVE IN SLEEP)
SMS_ONOFF_L - CONNECT TO SMC TO BE ABLE TO PUT SMS INTO LOW-POWER MODE

OUTPUT

SMS_ACC_*_AXIS - ACCELEROMETER OUTPUT TO SCU

PAGE HISTORY

5/19/2005 - FIRST REVISION OF PAGE
7/26/2005 - REMOVED BOM TABLE AND UPDATED SYMBOL TO KXM52-2050
7/26/2005 - CONNECTED PD PIN TO SMC'S SMS_ONOFF_L
7/26/2005 -



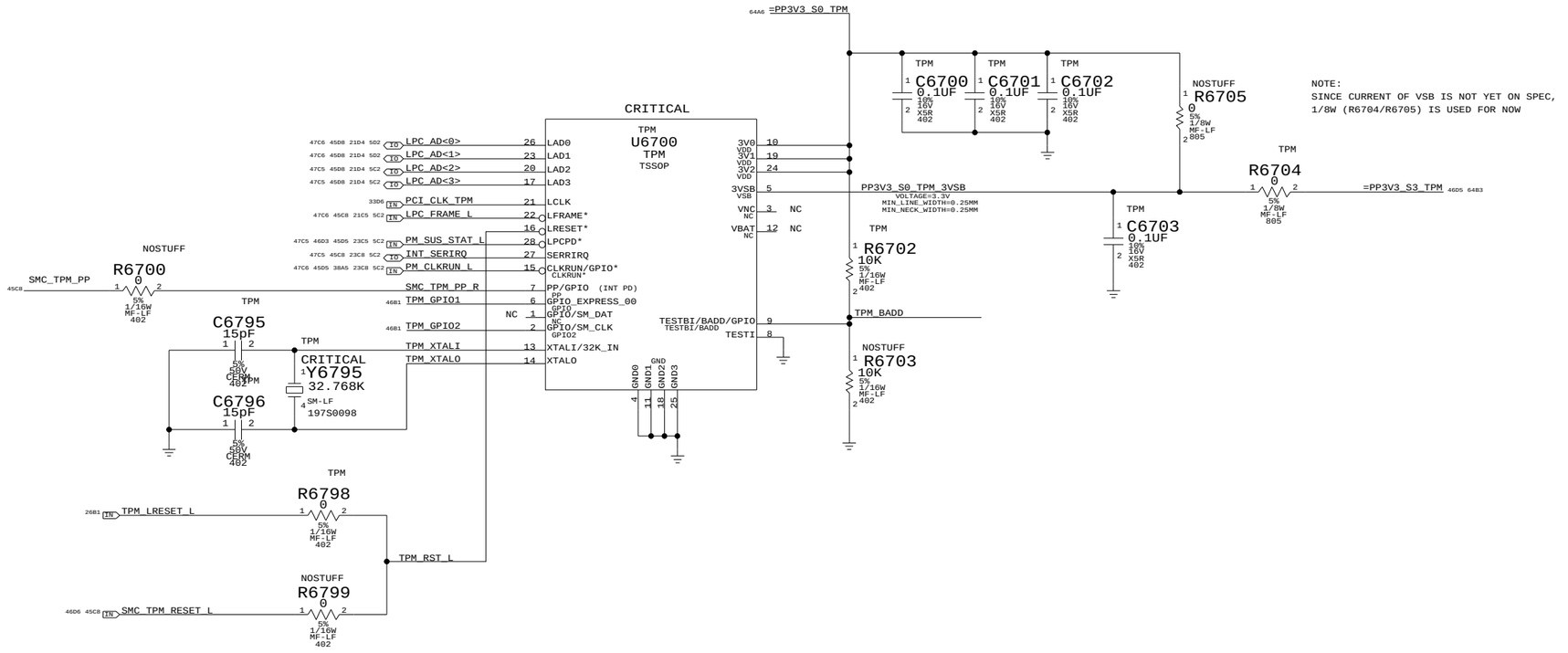
PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
132S0131	3	0.033UF,10%,16V,402	C6604,C6605,C6606		ACCEL_KIONIX
132S0042	3	0.01UF,10%,16V,402	C6604,C6605,C6606		ACCEL_ST

SMS

SYNC_MASTER=SMC SYNC_DATE=08/23/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 52 OF 79	



TPM

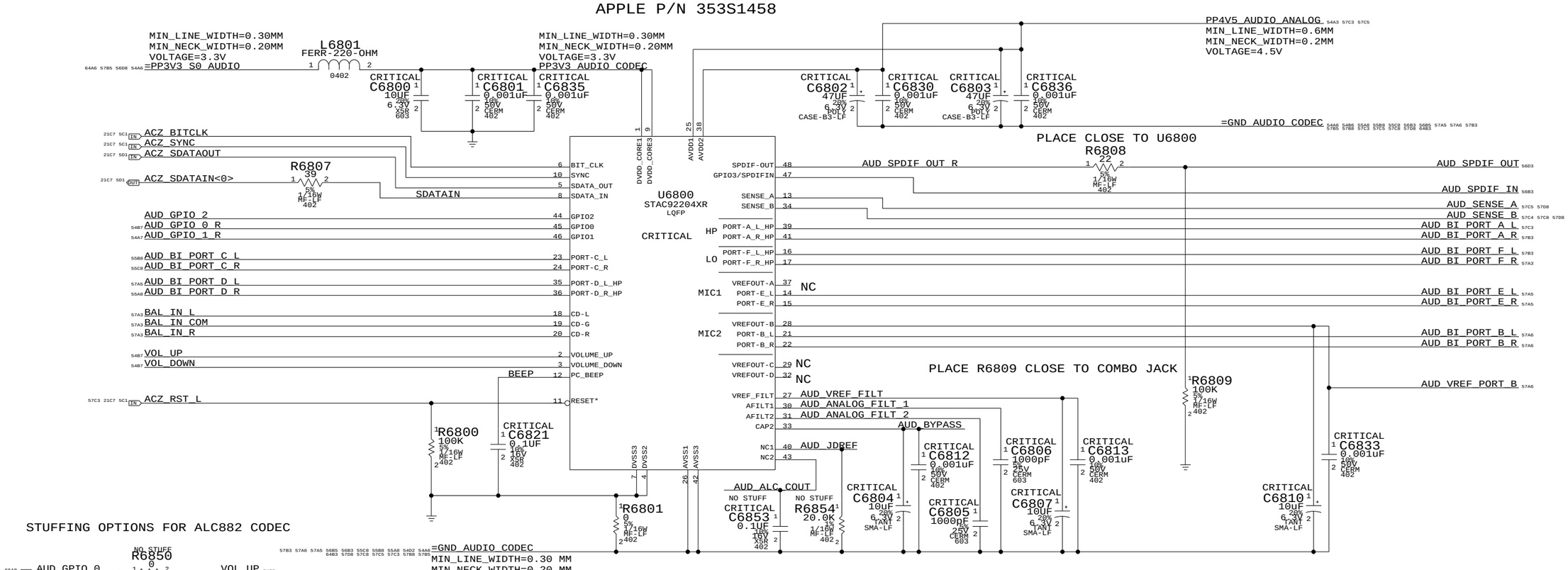
SYNC_MASTER=SMC SYNC_DATE=07/18/2005

APPLE COMPUTER INC.

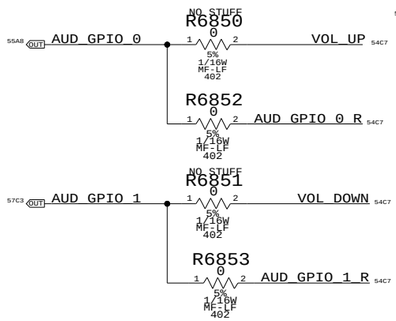
SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 53 OF 79	

AUDIO CODEC

APPLE P/N 353S1458

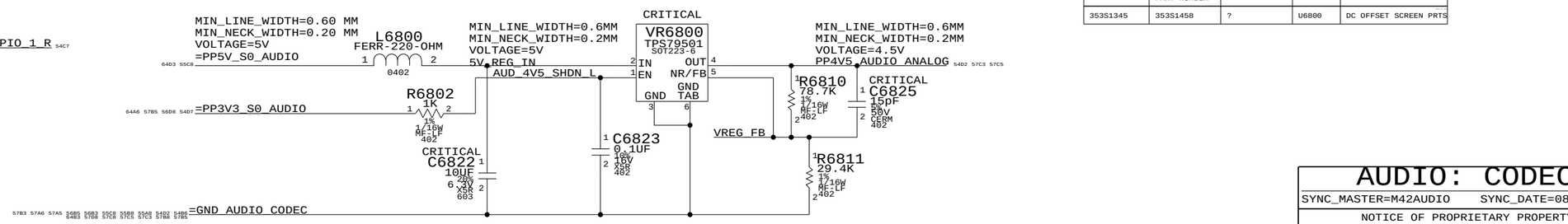


STUFFING OPTIONS FOR ALC882 CODEC



USING DC OFFSET SCREENED PART AS PRIMARY OPTION

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
353S1345	353S1458	?	U6800	DC OFFSET SCREEN PRTS



4.5V POWER SUPPLY FOR CODEC

AUDIO: CODEC

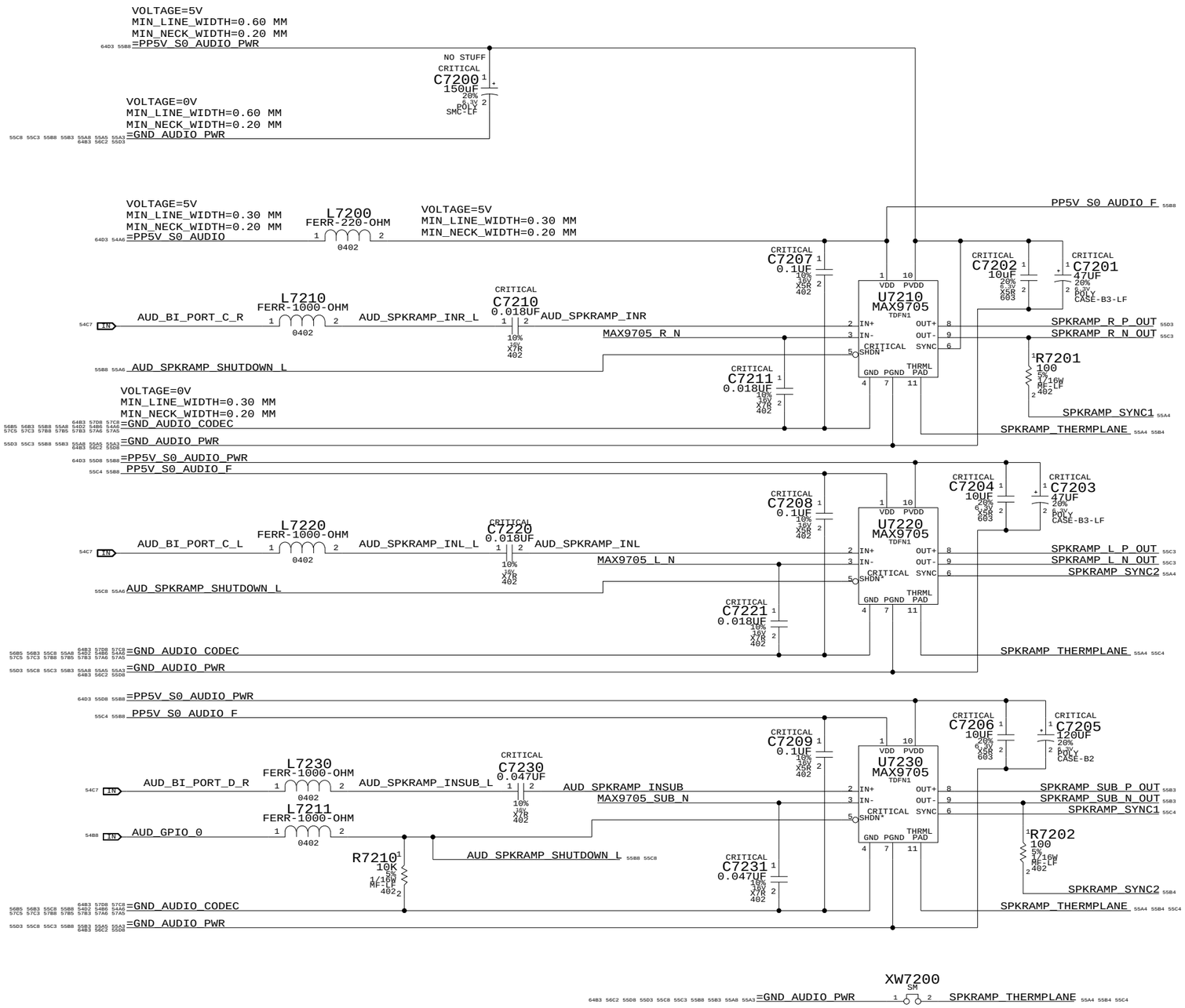
SYNC_MASTER=M42AUDIO SYNC_DATE=08/05/2006

APPLE COMPUTER INC.

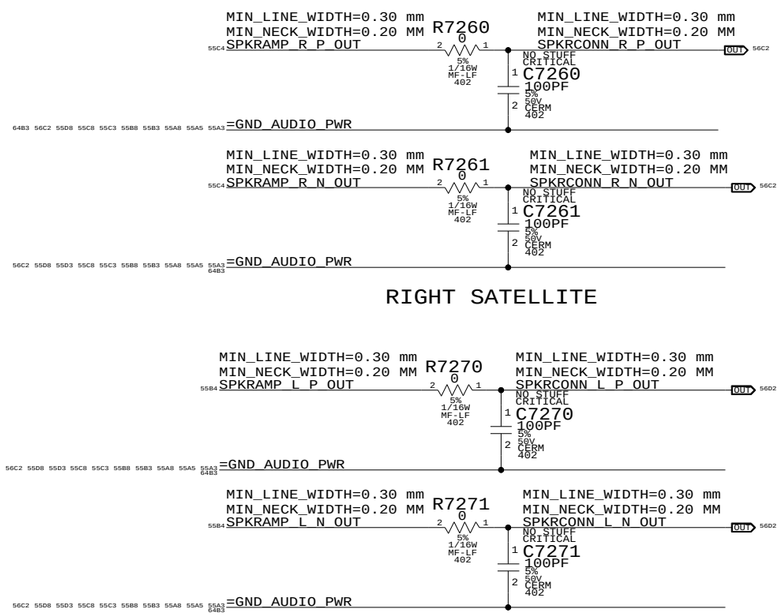
SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 54 OF 79	

SATELLITE & SUB TWEETER AMPLIFIER APN:353S1595

SATELLITE 442 Hz < FC < 736 Hz
SUB 169 Hz < FC < 282 Hz

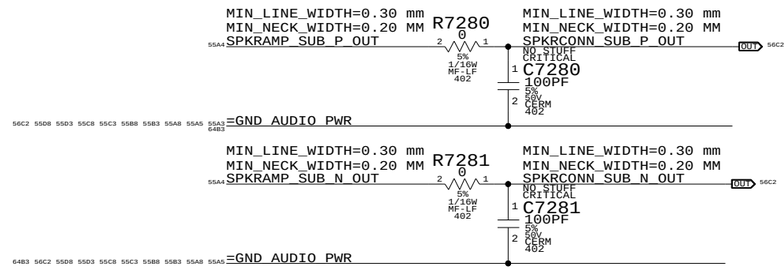


SPEAKER OUTPUT EMI FILTERS



RIGHT SATELLITE

LEFT SATELLITE



SUB-TWEETER

AUDIO: SPEAKER AMP

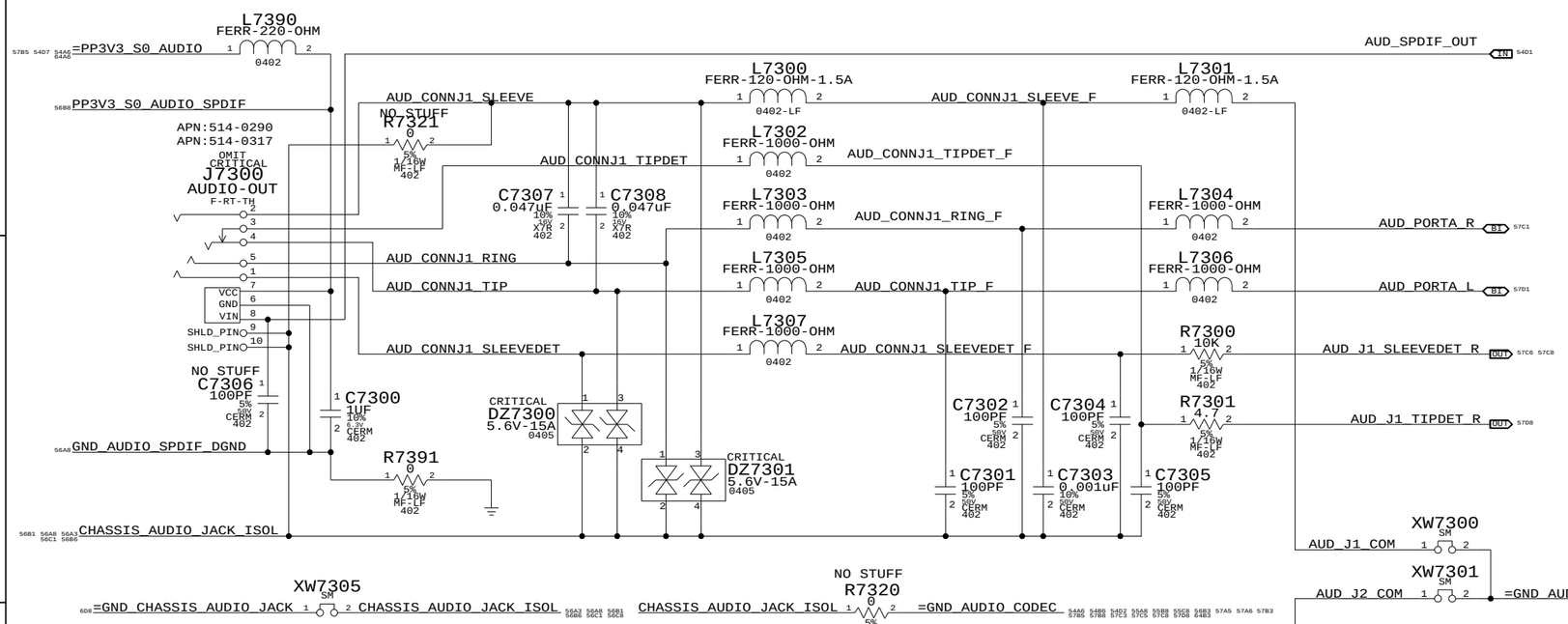
SYNC_MASTER=M42AUDIO SYNC_DATE=08/05/2006

APPLE COMPUTER INC.

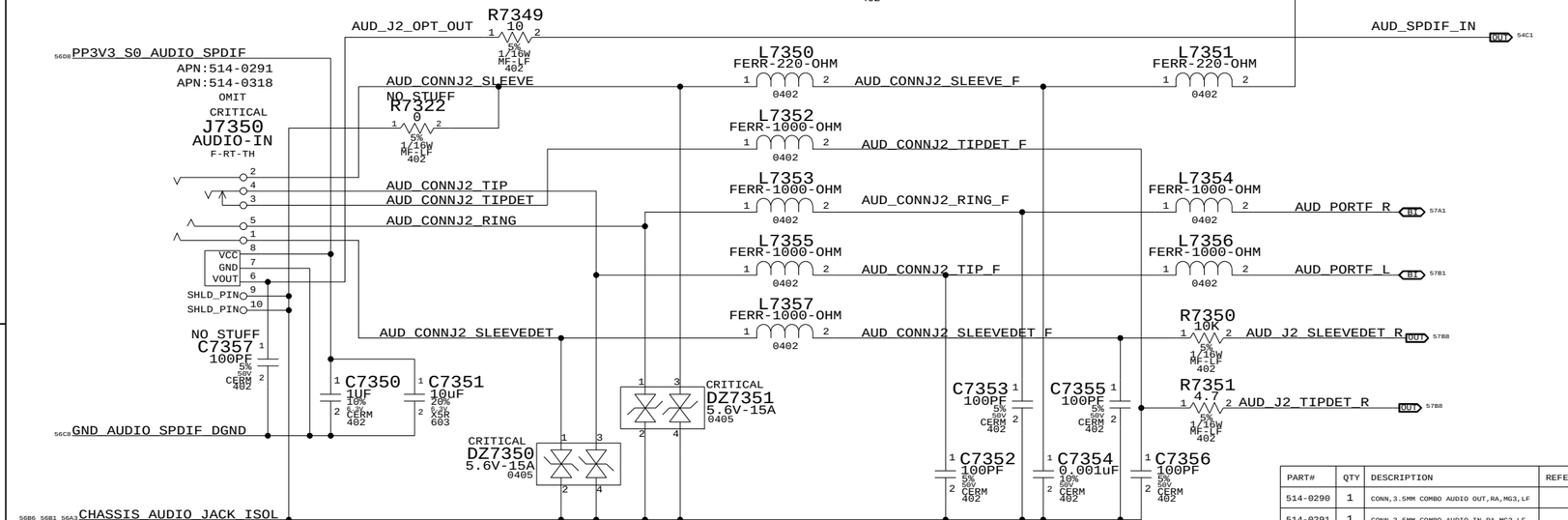
SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 55 OF 79	

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
518S0491	518S0332	?	J7302	IMPROVED TWO PIN CONNECTOR

AUDIO JACK 1: LO/HP CONNECTOR, SPDIF TX



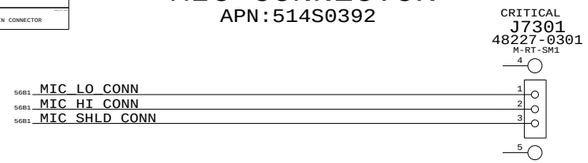
AUDIO JACK 2: LINE IN CONNECTOR, SPDIF RX



PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
514-0290	1	CONN,3.5MM COMBO AUDIO OUT,RA,MG3,LF	J7300	CRITICAL	NORMAL
514-0291	1	CONN,3.5MM COMBO AUDIO IN,RA,MG3,LF	J7350	CRITICAL	NORMAL
514-0317	1	CONN,3.5MM COMBO AUDIO OUT,RA,BLACK,LF	J7300	CRITICAL	FANCY
514-0318	1	CONN,3.5MM COMBO AUDIO IN,RA,BLACK,LF	J7350	CRITICAL	FANCY

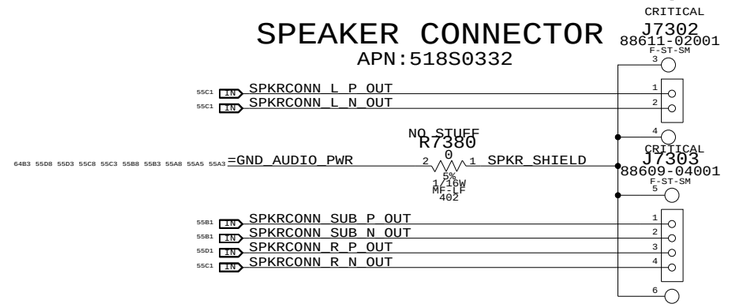
MIC CONNECTOR

APN:514S0392



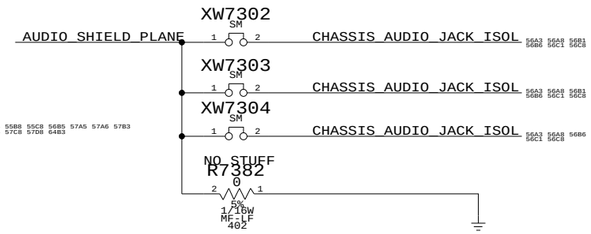
SPEAKER CONNECTOR

APN:518S0332

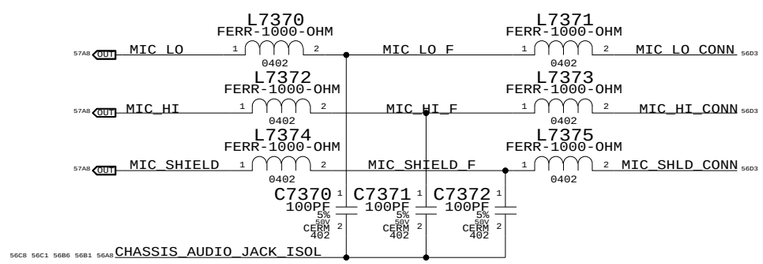


REPLACE 518S0334 WITH 518S0486

AUDIO SHIELD FILL



MIC EMI FILTER



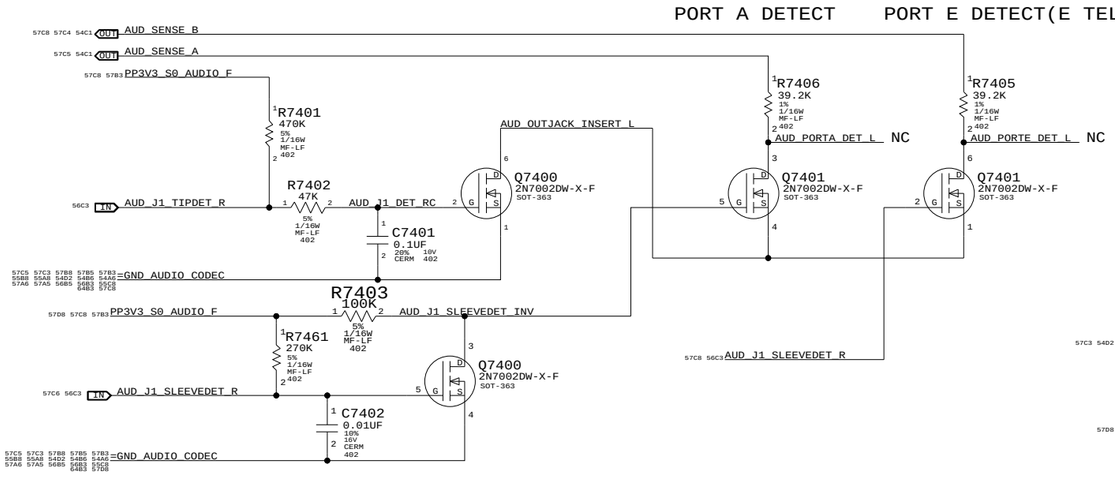
AUDIO: JACK

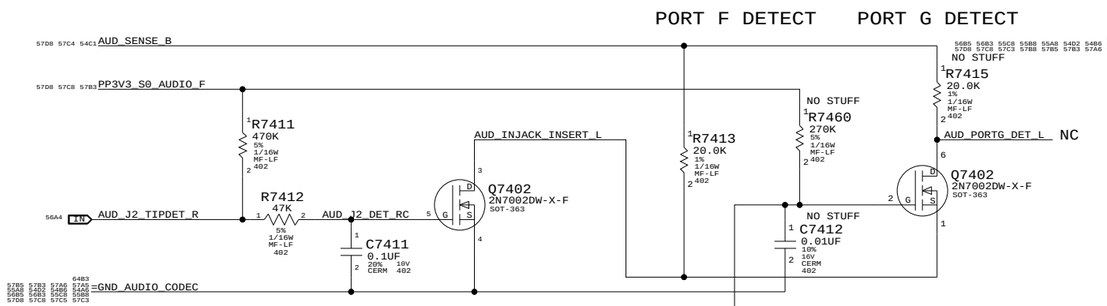
SYNC_MASTER=M42AUDIO SYNC_DATE=08/05/2006

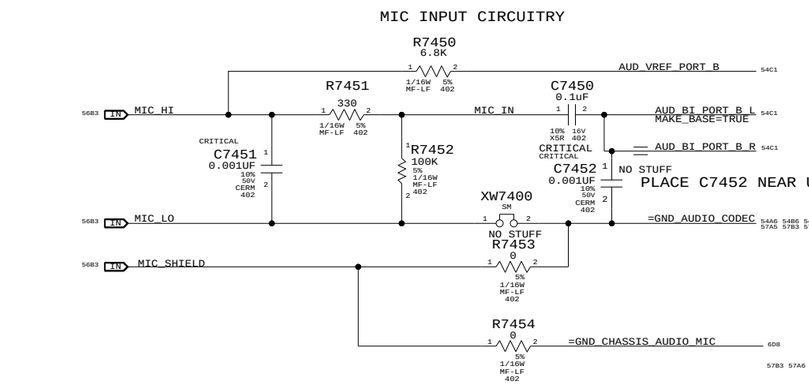
APPLE COMPUTER INC.

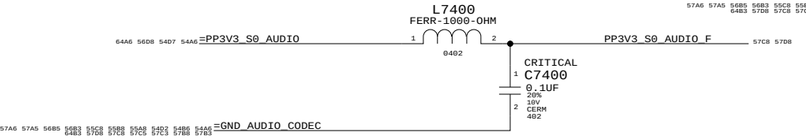
SIZE	DRAWING NUMBER	REV.
D	051-7374	A

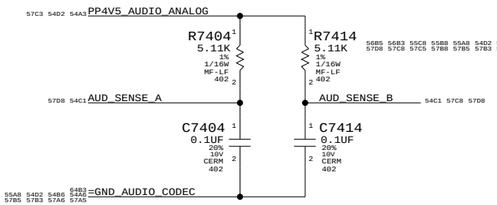
SCALE	SHT	OF
NONE	56	79

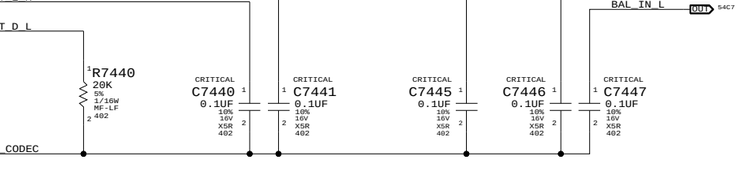






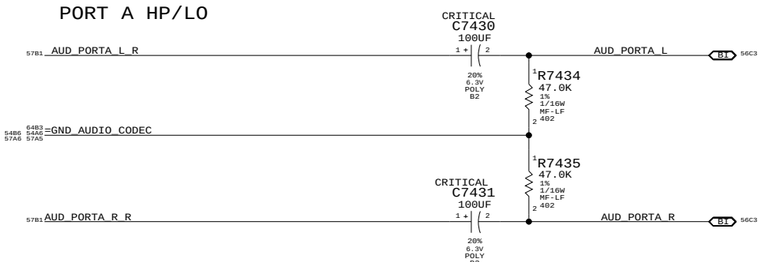


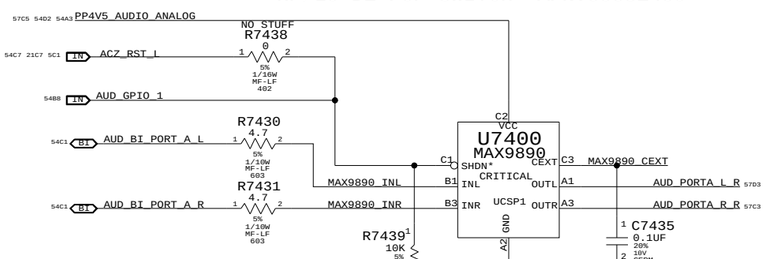


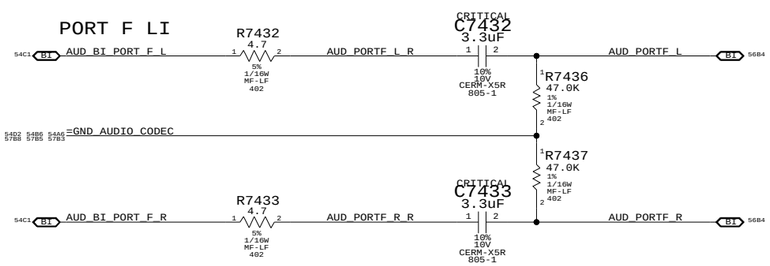


CODEC PORT ASSIGNMENTS

PORT A :HEADPHONE/LINE OUT
PORT B :MICROPHONE ON BOTH CH (ADC 0)
PORT C :SPEAKER AMP
PORT D :UNUSED
PORT E :SW USES TO TRIGGER DIGITAL OUT
PORT F :LINE IN (ADC 1)
CD INPUT :UNUSED







AUDIO: JACK TRANSLATORS

SYNC_MASTER=M42AUDIO SYNC_DATE=08/05/2006

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 57 OF 79	

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
128S0093	128S0092	?	C7501,C750B	KEMET T520V336M016ATE045?650
128S0093	128S0092	?	C7509,C7517	KEMET T520V336M016ATE045?650

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.

R0802/R0803 **on the CPU page** protect the IMVP6 if the CPU is not installed

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353S1465	1	ISL6262	U7500		M42
353S1461	1	ISL9504	U7500		M42A

	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
IMVP6_VO_R1	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	0.25 MM	0.25 MM
IMVP6_VO_R2	0.25 MM	0.25 MM

	MIN_LINE_WIDTH	MIN_NECK_WIDTH
IMVP6_OCSET	0.25 MM	0.20 MM
CPU_VID_R<0..6>	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	0.25 MM
IMVP6_VW	0.25 MM	0.25 MM
CPU_VCCSENSE_P	0.25 MM	0.25 MM
CPU_VCCSENSE_N	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

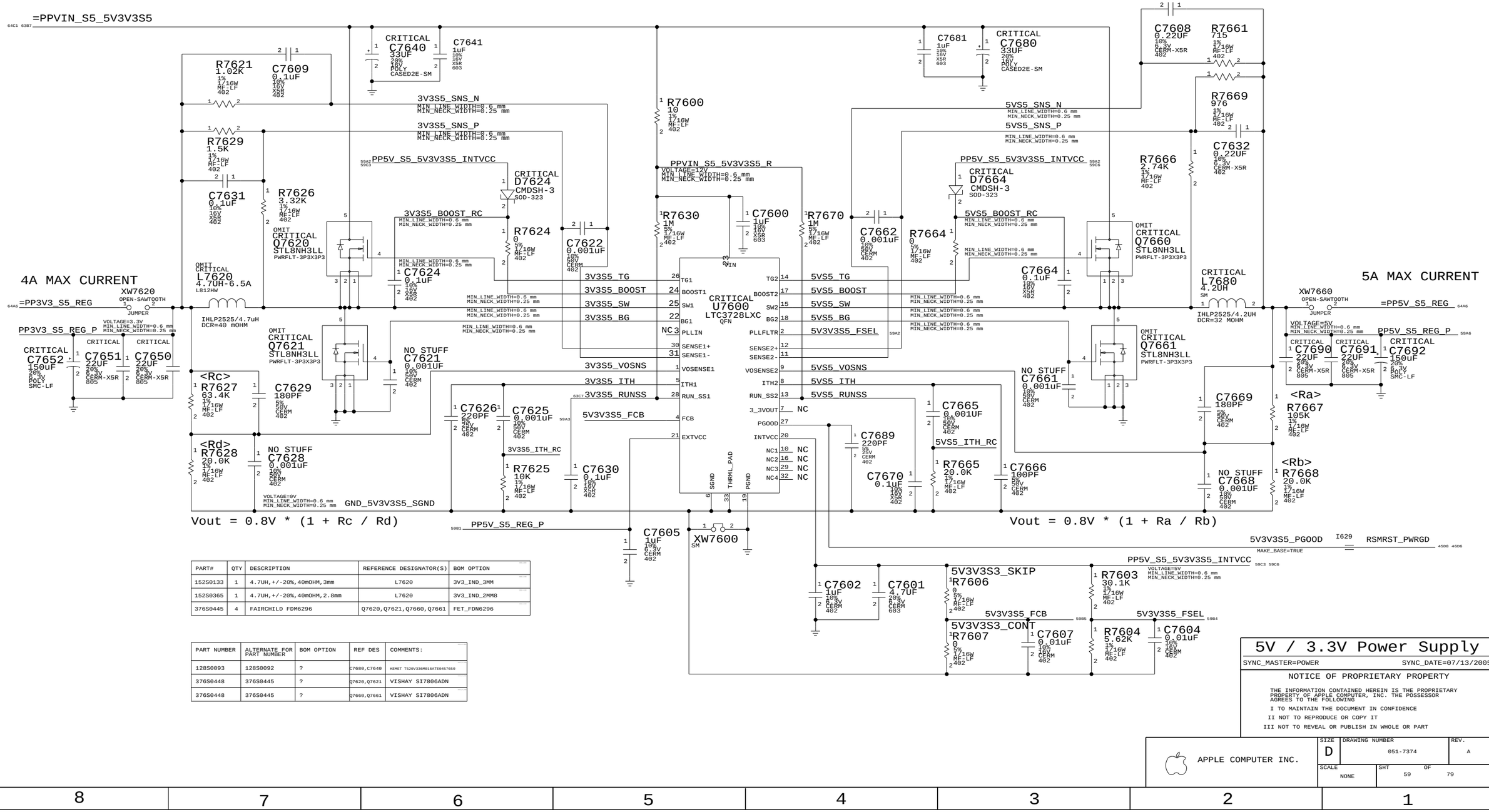
IMVP6 CPU VCore Regulator

SYNC_MASTER=POWER SYNC_DATE=07/13/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 58 OF 79	

5V/3.3V POWER SUPPLY



PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
152S0133	1	4.7UH,+/-20%,40mOHM,3mm	L7620	3V3_IND_3MM
152S0365	1	4.7UH,+/-20%,40mOHM,2.8mm	L7620	3V3_IND_2MM8
376S0445	4	FAIRCHILD FDM6296	Q7620,Q7621,Q7660,Q7661	FET_FDN6296

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
128S0093	128S0092	?	C7680,C7640	KEMET T520V336M016ATE0457650
376S0448	376S0445	?	Q7620,Q7621	VISHAY SI7806ADN
376S0448	376S0445	?	Q7660,Q7661	VISHAY SI7806ADN

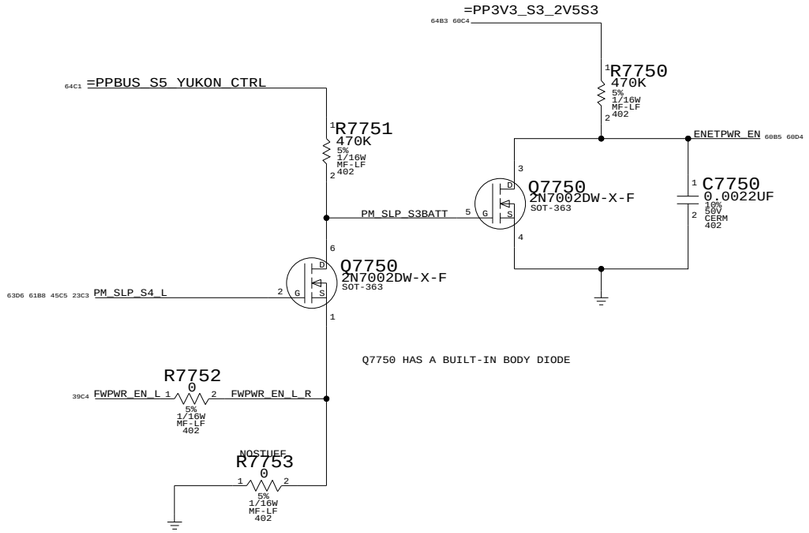
5V / 3.3V Power Supply

SYNC_MASTER=POWER SYNC_DATE=07/13/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 59 OF 79	

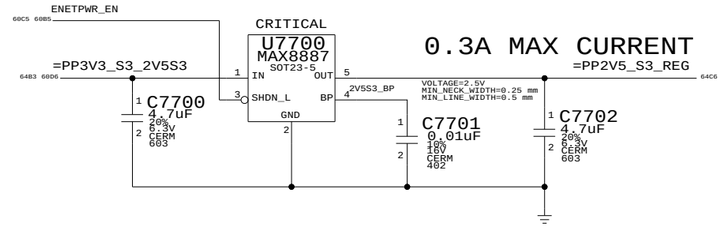
YUKON POWER CONTROL

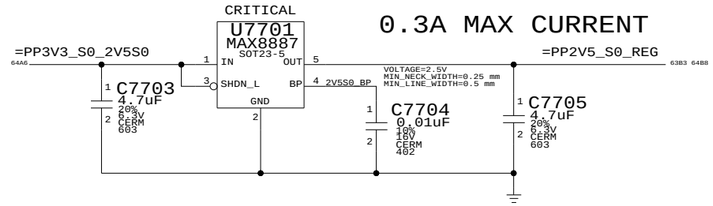


NAME	PM_SLP_S4_L	FWPWR_EN_L	PM_SLP_S3BATT	ENETPWR_EN
LOGIC	S3 | S0	~S0 | ~SMC_PS_ON		POWER YUKON
S3 ON BATTERY	TRUE (3.3V)	TRUE (PBUS 12.6V)	TRUE (PBUS 12.6V)	FALSE (0V)
S0 OR S3 ON AC	TRUE (3.3V)	FALSE (0V)	FALSE (0V)	TRUE (3.3V)
S5 ON AC	FALSE (0V)	TRUE (PBUS 12.6V)	TRUE (PBUS 12.6V)	FALSE (0V)
S5 ON BATT	FALSE (0V)	FALSE (0V)	TRUE (PBUS 12.6V)	FALSE (0V)

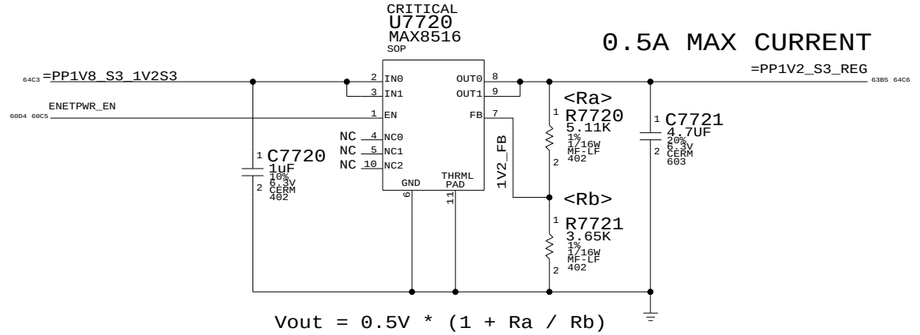
NOTE: IF CHANGE TO STUFFING R7753 THEN ENETPWR_EN IS BUFFERED PM_SLP_S4_L

2.5V REGULATORS





1.2V REGULATOR



Vout = 0.5V * (1 + Ra / Rb)

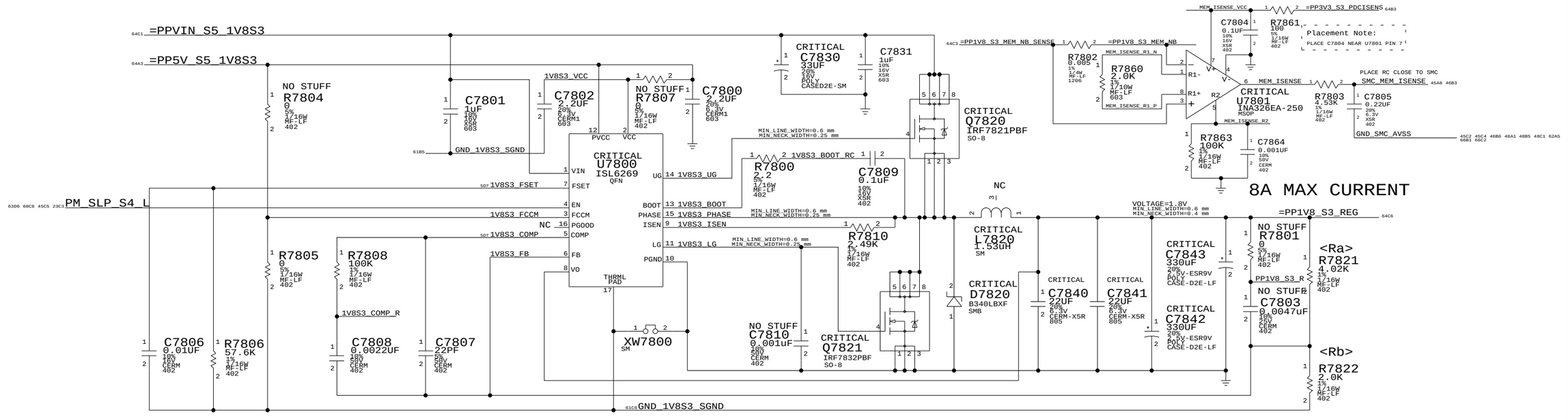
2.5V/1.2V Regulator

SYNC_MASTER=ENET SYNC_DATE=12/06/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 60 OF 79	

1.8V POWER SUPPLY



PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
128S0093	128S0092	?	C7830	KEMET T520V336M016ATE045760

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
128S0094	128S0060	?	C7842,C7843	PANASONIC EEFSX0D331ER
128S0095	128S0060	?	C7842,C7843	PANASONIC EEFSX0D331XE

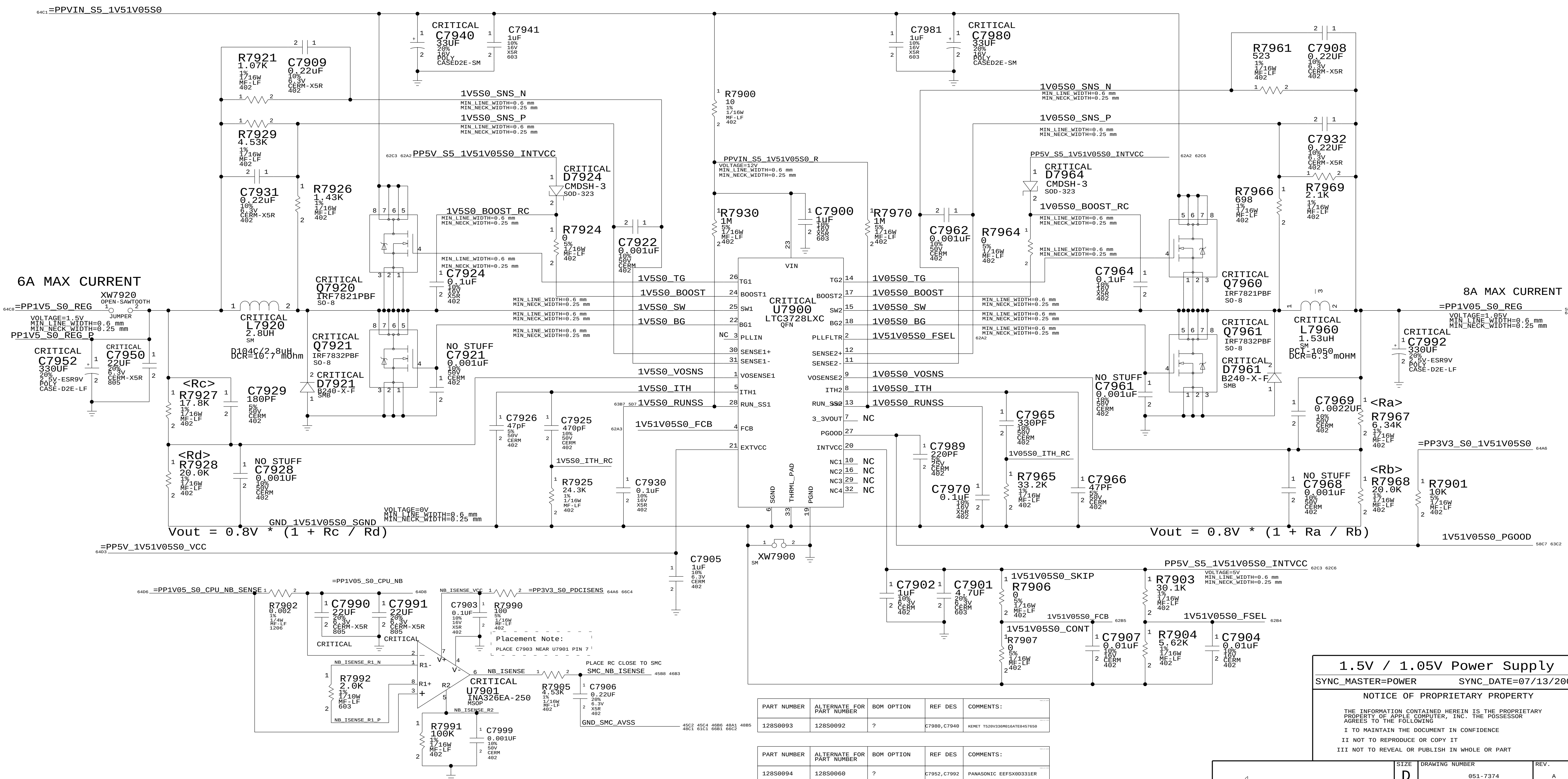
1.8V Supply

SYNC_MASTER=POWER SYNC_DATE=07/13/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 61 OF 79	

1.5V/1.05V POWER SUPPLY



PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
128S0093	128S0092	?	C7980,C7940	KEMET T520V336M016ATE0457650

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
128S0094	128S0060	?	C7952,C7992	PANASONIC EEFSX0D331ER
128S0095	128S0060	?	C7952,C7992	PANASONIC EEFSX0D331XE

1.5V / 1.05V Power Supply

SYNC_MASTER=POWER SYNC_DATE=07/13/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A

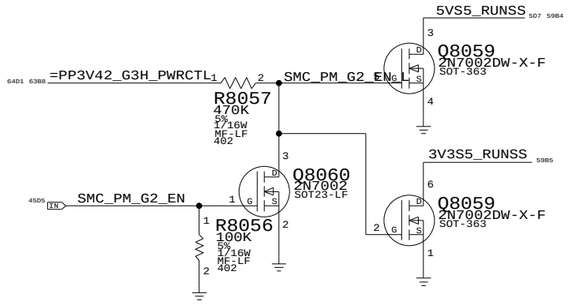
SCALE	SHT	OF
NONE	62	79

POWER CONTROL SIGNALS

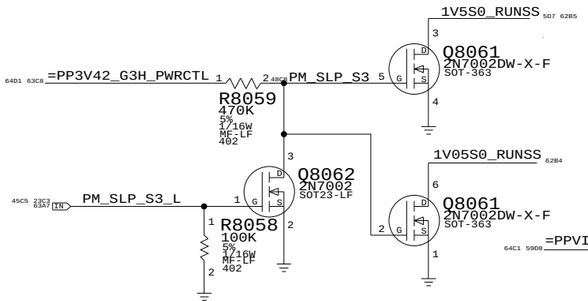
These rails are monitored by LTC2908

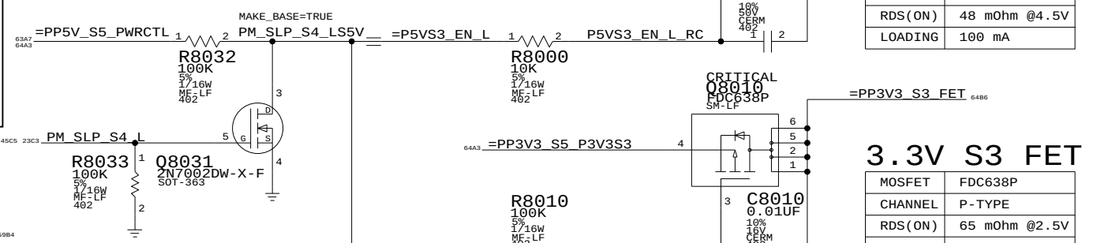
State	SMC_PM_G2_ENABLE	PM_SLP_S4_L	PM_SLP_S3_L
Run (S0)	1	1	1
Sleep (S3)	1	1	0
Soft-Off (S5)	1	0	0
Battery Off (G3Hot)	0	0	0

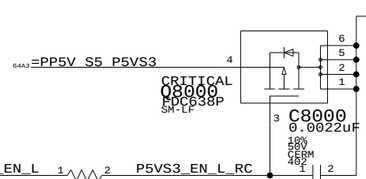
5V/3.3V S5 RUN/SS CONTROL



1.5V/1.05V S0 RUN/SS CONTROL







5V S3 FET

MOSFET	FDC638P
CHANNEL	P-TYPE
RDS(ON)	48 mOhm @4.5V
LOADING	100 mA

3.3V S3 FET

MOSFET	FDC638P
CHANNEL	P-TYPE
RDS(ON)	65 mOhm @2.5V
LOADING	1 A

5V S0 FET

MOSFET	STL8NH3LL
CHANNEL	N-TYPE
RDS(ON)	15 mOhm @10V
LOADING	3 A

3.3V S0 FET

MOSFET	STL8NH3LL
CHANNEL	N-TYPE
RDS(ON)	15 mOhm @10V
LOADING	2 A

1.2V S0 FET

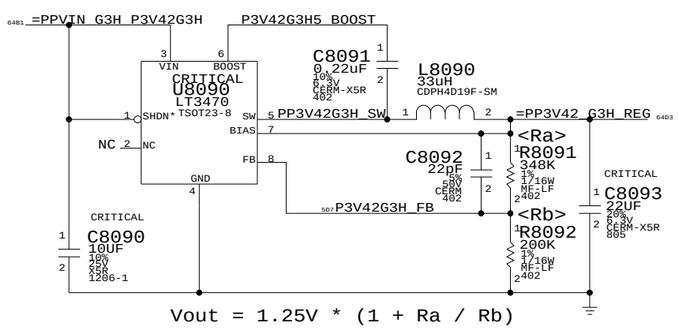
MOSFET	2N7002
CHANNEL	N-TYPE
RDS(ON)	13.5 Ohm
LOADING	Nothing

1.8V S0 FET

MOSFET	SI3447BDV
CHANNEL	P-TYPE
RDS(ON)	72 mOhm @1.8V
LOADING	320 mA

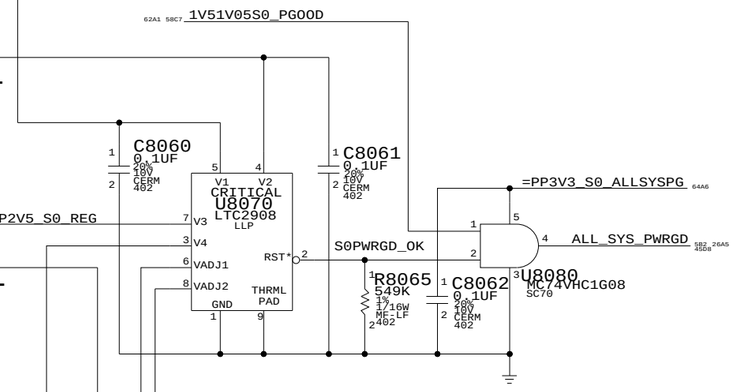
3.425V "G3Hot" SUPPLY

Supply needs to guarantee 3.31V delivered to SMC VRef generator



Vout = 1.25V * (1 + Ra / Rb)

ALL SYSTEM PWRGD CIRCUIT



PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	BOM OPTION
376S0445	2	FAIRCHILD FDM6296	Q8005,Q8015	FET_FDN6296

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
376S0448	376S0445	?	Q8005,Q8015	VISHAY SI7806ADN

S3/S0 FETS, G3H SUPPLY

SYNC_MASTER=ENET SYNC_DATE=08/30/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A

SCALE: NONE SHT 63 OF 79

"S0" RAILS ONLY ON IN RUN

PPVCORE_CPU_S0
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.5MM
MIN_NECK_WIDTH=0.4MM
VOLTAGE=0.9V

(REGULATOR OUTPUT CPU VCORE PWR) =PPVOUT_S0_IMVP6_REG (58D1)
(CPU VCORE PWR) =PPVCORE_S0_CPU — 8B5 8D7 9B8 48A5 48B3

PP0V9_S0
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.5MM
MIN_NECK_WIDTH=0.4MM
VOLTAGE=0.9V

(LDO OUTPUT 0.9V PWR) =PP0V9_S0_MEM_REG (63B2 31B3)
(DDR2 TERMINATION 0.9V PWR) =PP0V9_S0_MEM_TERM — 30D4

PP1V05_S0
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.4MM
VOLTAGE=1.05V

(REGULATOR OUTPUT 1.05V PWR) =PP1V05_S0_REG (62B1 5B2)
(ICH CPU I/O 1.05V PWR) =PP1V05_S0_SB_CPU_IO — 21C1 24C3 25C4
(ICH VCORE 1.05V PWR) =PPVCORE_S0_SB — 24D3 25D3
=PP1V05_S0_CPU_NB_SENSE — 62A8

PP1V05_S0_CPU_NB
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.4MM
VOLTAGE=1.05V

=PP1V05_S0_CPU_NB (62A6)
(MCH CORE 1.05V PWR) =PPVCORE_S0_NB — 16C8 16D3 19C8 19D7
(CPU FSB 1.05V PWR) =PP1V05_S0_CPU — 7B5 7B6 7D5 8C7 9C8 11B3 11C5
(MCH FSB 1.05V PWR) =PP1V05_S0_FSB_NB — 12A7 12B7 12C2 19D7 33B8 33C7 33C8
=PP1V05_S0_NB_VTT — 17D3 19B5 19D7
(MCH FSB 1.05V PWR) =PP1V05_S0_NB — 19D1 19D7

PP1V5_S0
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.4MM
VOLTAGE=1.5V

(REGULATOR OUTPUT 1.5V PWR) =PP1V5_S0_REG (62B8)
(CPU AVDD 1.5V PWR) =PP1V5_S0_CPU — 8B7 9D8
(MCH PCIE GRAPHICS O/P COMPENSATION 1.5V PWR) =PP1V5_S0_NB_PCIE — 13D2 19D7
(MCH DDR DLL&IO, FSB HSIO&IO PWR 1.5V) =PP1V5_S0_NB_VCCAUX — 16D1 17B6 19B6 19D7
(MCH DIGITAL DIVIDER IN HMPLL 1.5V PWR) =PP1V5_S0_NB_VCCD_HMPLL — 17C6 19D7
(MCH LVDS DIGITAL 1.5V PWR) =PP1V5_S0_NB_VCCD_LVDS — 17C6 19B8 19D7
(HOST/MEMORY PLL 1.5V PWR) =PP1V5_S0_NB_PLL — 19C6 19D7
=PP1V5_S0_NB — 19C1 19D7
(MCH TVDAC DEDICATED/QUIET PWR 1.5V) =PP1V5_S0_NB_TVDAC — 19A8 19D7
(MCH 3GIO[PCIE/DMI] 1.5V PWR) =PP1V5_S0_NB_3G — 19B5
(MCH 3GIO PLL 1.5V PWR) =PP1V5_S0_NB_3GPLL — 19A5
(ICH LOGIC&IO[ARX] 1.5V PWR) =PP1V5_S0_SB_VCC1_5_A_ARX — 24B5 25D6
(ICH SATA PLL 1.5V PWR) =PP1V5_S0_SB_VCCSATAPLL — 24B5 25D6
(ICH LOGIC&IO[ATX] 1.5V PWR) =PP1V5_S0_SB_VCC1_5_A_ATX — 24A5 25C6
(ICH USB PLL 1.5V PWR) =PP1V5_S0_SB_VCCUSBPLL — 24A5 25B6
(ICH USB CORE 1.5V PWR) =PP1V5_S0_SB_VCC1_5_A_USB_CORE — 24A3 25B2
(ICH LOGIC&IO 1.5V PWR) =PP1V5_S0_SB_VCC1_5_A — 24A3 25C2
=PP1V5_S0_SB — 25A8 25C8
(WIRELESS CARD 1.5V PWR) =PP1V5_S0_AIRPORT — 43D3

PP1V8_S0
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.4MM
VOLTAGE=1.8V

(COME FROM S3 TO S0 MOSFET) =PP1V8_S0_FET (63B3)
(DDR2 TERMINATION REGULATOR 1.8V SWITCH PWR) =PP1V8_S0_TMDS — 68D6

PP2V5_S0
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.5 mm
MIN_NECK_WIDTH=0.25 mm
VOLTAGE=2.5V

(COME FROM S3 TO S0 MOSFET) =PP2V5_S0_REG (63B3 60C2)
(MCH H/V SYNC 2.5V PWR) =PP2V5_S0_NB_VCCSYNC — 17D6 19B6 19D7
(MCH LVDS DATA/CLK TX 2.5V PWR) =PP2V5_S0_NB_VCC_TXLVDS — 17D6 19B8 19D7
(MCH PCIE/DMI BAND GAP 2.5V PWR) =PP2V5_S0_NB_VCCA_3GBG — 17D6 19B7 19D7
(MCH LVDS ANALOG 2.5V PWR) =PP2V5_S0_NB_VCCA_LVDS — 17C6 19C7 19D1
(MCH CRTDAC ANALOG 2.5V PWR) =PP2V5_S0_NB_CRTDAC — 19D4 19D7
(TMDS 2.5V PWR) =PP2V5_S0_TMDS — 68B7
=PP2V5_S0_NB_DISP_PLL — 19D6

PP3V3_S0
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.30MM
MIN_NECK_WIDTH=0.20MM
VOLTAGE=3.3V

(COME FROM S5 TO S0 MOSFET) =PP3V3_S0_FET (63C3)
(MCH HV BUFFER 3.3V PWR) =PP3V3_S0_NB_VCC_HV — 17C6 19B7 19C7
=PP3V3_S0_SB — 22B5 25D8 34C8
(ICH GPIO PULLS 3.3V PWR) =PP3V3_S0_SB_GPIO — 21C3 21D3 23B2 23D5
(ICH IO BUFFER 3.3V PWR) =PP3V3_S0_SB_VCC3_3 — 24B5 25B8 25C6
(ICH PCI I/O 3.3V PWR) =PP3V3_S0_SB_VCC3_3_PCI — 24B3 25A4
(ICH IDE I/O 3.3V PWR) =PP3V3_S0_SB_VCC3_3_IDE — 24C3 25B4
(ICH PCI PULLS 3.3V PWR) =PP3V3_S0_SB_PCI — 26D1
(ICH PM PULLS 3.3V PWR) =PP3V3_S0_SB_PM — 26B6 26B8
(PATA PULLS 3.3V PWR) =PP3V3_S0_PATA — 34C2
(SATA 3.3V PWR) =PP3V3_S0_SMC_LS — 46D3
(MCH PULLS 3.3V PWR) =PP3V3_S0_NB — 14C7 14D6 19C7 20A4 20B4
(ICH LAN I/F 3.3V PWR, NEED TO CHECK INTEL) =PP3V3_S0_SB_VCCLAN3_3 — 24D3 25D3
(ICH INTEL HDA CORE 3.3V PWR) =PP3V3_S0_SB_3V3_1V5_VCCHDA — 24C3 25C4
(DIMM SPD 3.3V PWR) =PPSPD_S0_MEM — 28A7 29A3 29A7
(CLOCK GENERATOR 3.3V PWR) =PP3V3_S0_CK410 — 32C7 32D3 32D8
(WIRELESS CARD 3.3V PWR) =PP3V3_S0_AIRPORT — 43C3
(TPM 3.3V PWR) =PP3V3_S0_TPM — 53D4
(AUDIO 3.3V PWR) =PP3V3_S0_AUDIO — 54A6 54D7 56D8 57B5
(TMDS 3.3V PWR) =PP3V3_S0_TMDS — 68B1 68B2 68C8 68D8 69B7 69D1 69D5
(CPU THERMAL SENSOR 3.3V PWR) =PP3V3_S0_THRM_SNR — 10C4 49B3 49D3
(ISL6262 3V3) =PP3V3_S0_IMVP6 — 58D8
=PP3V3_S0_RSTBUF — 26B4
=PP3V3_S0_SMBUS_SB — 27D8
=PP3V3_S0_SMBUS_SMC_0 — 27D5
=PP3V3_S0_SMBUS_SMC_MLB — 27C5
=PP3V3_S0_ALLSYSPG — 63B1
=PP3V3_S0_FAN_RT — 5D2 51C4
=PP3V3_S0_LCD — 67B5 67B7 67C6
=PP3V3_S0_PBATTISENS — 66B3
=PP3V3_S0_PDCISENS — 62A5 66C4
=PP3V3_S0_CPUPOWER — 48C2
=PP3V3_S0_SMBUS_SMC_BSB — 27B1
=PP3V3_S0_1V51V05S0 — 62B1
=PP3V3_S0_2V5S0 — 60C4
(FIREWIRE DIGITAL 3.3V PWR) =PP3V3_S0_FW — 39C6
=PP3V3_S0_ENET — 36C8

PP5V_S0
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.30 MM
MIN_NECK_WIDTH=0.20 MM
VOLTAGE=5V

(COME FROM S5 TO S0 MOSFET) =PP5V_S0_FET (63C3)
=PP5V_S0_SB — 25D8
(SATA 5V PWR) =PP5V_S0_SATA — 35C6
(DDR2 TERMINATION) =PP5V_S0_MEMVTT — 31C6
(AUDIO 5V PWR) =PP5V_S0_AUDIO — 54A6 55C8
(AUDIO SPEAKER 5V PWR) =PP5V_S0_AUDIO_PWR — 55B8 55D8
(LPC DEBUG BOARD 5V PWR) =PP5V_S0_LPCPLUS — 5D2 47C6
(MCH TV 3.3V LDO) =PP5V_S0_NB_TVDAC — 19C4 19C7
(ISL6262 VDD) =PP5V_S0_IMVP6 — 58D8
(LTC3728LXC EXTVCC) =PP5V_1V51V05S0_VCC — 62A8
(TMDS 5V PWR) =PP5V_S0_TMDS — 68B7 69C6
=PP5V_S0_FAN_RT — 5D2 51C4
=PP5V_S0_LCD — 67D7
=PP5V_S0_ISENSECAL — 48A8

"S3" RAILS
ON IN RUN AND SLEEP

PP1V2_S3
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.32MM
VOLTAGE=1.2V

(LDO OUTPUT 1.2V PWR) =PP1V2_S3_REG (63B5 60B2)
(ENET 1.2V PWR) =PP1V2_S3_ENET — 36A8 36D7

PP1V8_S3
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.4MM
VOLTAGE=1.8V

(REGULATOR OUTPUT 1.8V PWR) =PP1V8_S3_REG (61B1)
(DDR2 DIMM 1.8V PWR) =PP1V8_S3_MEM — 19C7 19C8 28B2 28D4 28D6 29B2 29D4 29D6
=PP1V8_S3_P1V8S0 — 63A5
=PP1V8_S3_MEMVTT — 31C6
=PP1V8_S3_MEM_NB_SENSE — 61C4
=PP1V8_S3_1V2S3 — 60B5

PP1V8_S3_MEM_NB
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.4MM
VOLTAGE=1.8V

=PP1V8_S3_MEM_NB (61C2 29D2 28D2 19D7 16B6 14C2)
(MCH DDR2 1.8V PWR)

PP2V5_S3
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.5 mm
MIN_NECK_WIDTH=0.25 mm
VOLTAGE=2.5V

(REGULATOR OUTPUT 2.5V PWR) =PP2V5_S3_REG (60C2)
(ENET 2.5V PWR) =PP2V5_S3_ENET — 36D3

PP3V3_S3
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.2 MM
MIN_NECK_WIDTH=0.16 MM
VOLTAGE=3.3V

(COME FROM S5 TO S3 MOSFET) =PP3V3_S3_FET (63D3)
=PP3V3_S3_SMBUS_SMC_RMT — 27D3
(ETHERNET 3.3V PWR) =PP3V3_S3_ENET — 36A5 36B4 36B5 36C8 36D6 36D8
(BLUETOOTH 3.3V PWR) =PP3V3_S3_BT — 44C6
(ACCELEROMETER 3.3V PWR) =PP3V3_S3_SMS — 46D5 52C7
(TPM 3.3V SUSPEND PWR) =PP3V3_S3_TPM — 46D5 53C2
(TPS62050 VIN) =PP3V3_S3_2V5S3 — 60C4 60D6
(FIREWIRE CHIP PCI SIGNAL INDICATOR) =PP3V3_S3_PCI — 38C5
=PP3V3_S3_RSTGATE — 26B3
=PP3V3_S3_AIRPORT_AUX — 43C3
=PP3V3_S3_FW — 38D5
=PP3V3_S3_PDCISENS — 61C1

PP5V_S3
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.3MM
VOLTAGE=5V

(COME FROM S5 TO S3 MOSFET) =PP5V_S3_FET (63D3)
(ISL6269 PVCC) =PP5V_S3_SYSLED — 35B6 46B4
(SYSTEM LED PWR) =PP5V_S3_CAMERA — 67A5
(USB IO PORT 5V PWR) =PP5V_S3_IR — 41D6
(USB IR CONTROLLER 5V PWR) =PP5V_S3_GEYSER — 40D6

"S5" RAILS
ALWAYS ON WHEN UNIT HAS AC POWER (TRICKLE)

PP3V3_S5
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.3MM
VOLTAGE=3.3V

(REGULATOR OUTPUT 3.3V PWR) =PP3V3_S5_REG (59B8)
=PP3V3_S5_SB — 23A7 23B7 23D4 23D8 25C8
(ICH USB CTL PULLS 3.3V PWR) =PP3V3_S5_SB_USB — 22D8
(ICH PM 3.3V PWR) =PP3V3_S5_SB_PM — 11B5 23D1 26C5
(ICH SUSPEND 3.3V PWR) =PP3V3_S5_SB_VCCSUS3_3 — 24A5 24B3 25B6 25D2
(ICH SUSPEND USB 3.3V PWR) =PP3V3_S5_SB_VCCSUS3_3_USB — 24B3 25D2
(ICH SUSPEND PULLS 3.3V PWR) =PP3V3_S5_SB_IO — 22C6
(ICH INTEL HDA SUSPEND 3.3V PWR) =PP3V3_S5_SB_3V3_1V5_VCCSUSHDA — 24C3
(SPI BOOTROM PWR) =PP3V3_S5_ROM — 50D4
=PP3V3_S5_P3V3S3 — 63D5
=PP3V3_S5_P3V3S0 — 63C5
=PP3V3_S5_FWLATEVG — 39A8
=PP3V3_S5_LCD — 67C7

PP5V_S5
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.3MM
VOLTAGE=5V

(REGULATOR OUTPUT 5 PWR) =PP5V_S5_REG (59B1)
=PP5V_S5_SB — 25C8
=PP5V_S5_P5VS3 — 63D5
=PP5V_S5_PWRCTL — 63A7 63D6
=PP5V_S5_P5VS0 — 63C5
=PP5V_S5_USB — 42C8
=PP5V_S5_PATA (PATA 5V PWR) — 34D6
=PP5V_S5_1V8S3 — 61C7

G3 HOT

PP3V42_G3H
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.2MM
MIN_NECK_WIDTH=0.2MM
VOLTAGE=3.425V

=PP3V42_G3H_REG (63D1)
=PP3V42_G3H_SMCVREF — 46C8
=PP3V42_G3H_SMBUS_SMC_BSA — 27C3
=PP3V42_G3H_PWRCTL — 63B8 63C8
=PP3V42_G3H_LIDSWITCH — 65A8
(LPC DEBUG BOARD) =PP3V42_G3H_LPCPLUS — 5D2 47C6
=PP3V42_G3H_SB_RTC — 26D6
=PP3V42_G3H_ACIN — 65C4 65C8 66A5
(SMC 32.768KHz OSC) =PP3V42_G3H_SMC_CLK — 46A8
(SMC 3.3V PWR) =PP3V42_G3H_SMC — 45D2 45D3 46D1 46D5 46D8 48C8

PBUS HOT

PPBUSA_G3H
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.3MM
VOLTAGE=12.6V

=PPBUSA_G3H (66C2)
(INVERTER PBUS PWR)
(ISL6262 VIN)
(LTC3728 VIN) =PPBUS_S5_INV — 67D4
=PPVIN_S5_IMVP6 — 48C7 58C2 58D5 58D8
=PPVIN_S5_1V51V05S0 — 62D8

PPBUSB_G3H
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.3MM
VOLTAGE=12.6V

=PPBUSB_G3H (66C2)
(LTC3728 VIN)
(ISL6269 VIN) =PPVIN_S5_5V3V3S5 — 59D8 63B7
(FIREWIRE PORT PBUS PWR) =PPVIN_S5_1V8S3 — 61C7
(YUKON POWER CONTROL) =PPBUS_S5_FWPWRSW — 39D6
=PPBUS_S5_YUKON_CTRL — 60C8

PP18V5_G3H
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.6 MM
MIN_NECK_WIDTH=0.20 MM
VOLTAGE=18.5V

=PP18V5_G3H_INRUSH (65D1)
(DC-IN OUTPUT 18.5V PWR)
(CHARGER INPUT 18.5V PWR) =PP18V5_G3H_CHGR — 66D8
(SMC INPUT 18.5V PWR)

DCIN G3HOT

PPDCIN_G3H
MAKE_BASE=TRUE
MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.3MM
VOLTAGE=18.5V

=PPDCIN_G3H (65D3)
=PPVBATT_G3H (66B2)
=PPVIN_G3H_P3V42G3H — 63D3

GND RAILS

XW8101 SM
XW8102 SM

=GND_AUDIO_CODEC (5D1) — GND_AUDIO_CODEC — MAKE_BASE=TRUE
=GND_AUDIO_PWR (5D1) — GND_AUDIO_PWR — MAKE_BASE=TRUE

57A6 57A5 56B5 56B3 55C8 55B8 55A8 54D2 54B6 54A5 57D8 57C8 57C5 57C3 57B8 57B5 57B3
56C2 55D8 55D3 55C8 55C3 55B8 55B3 55A8 55A5 55A3

Power Conn / Alias

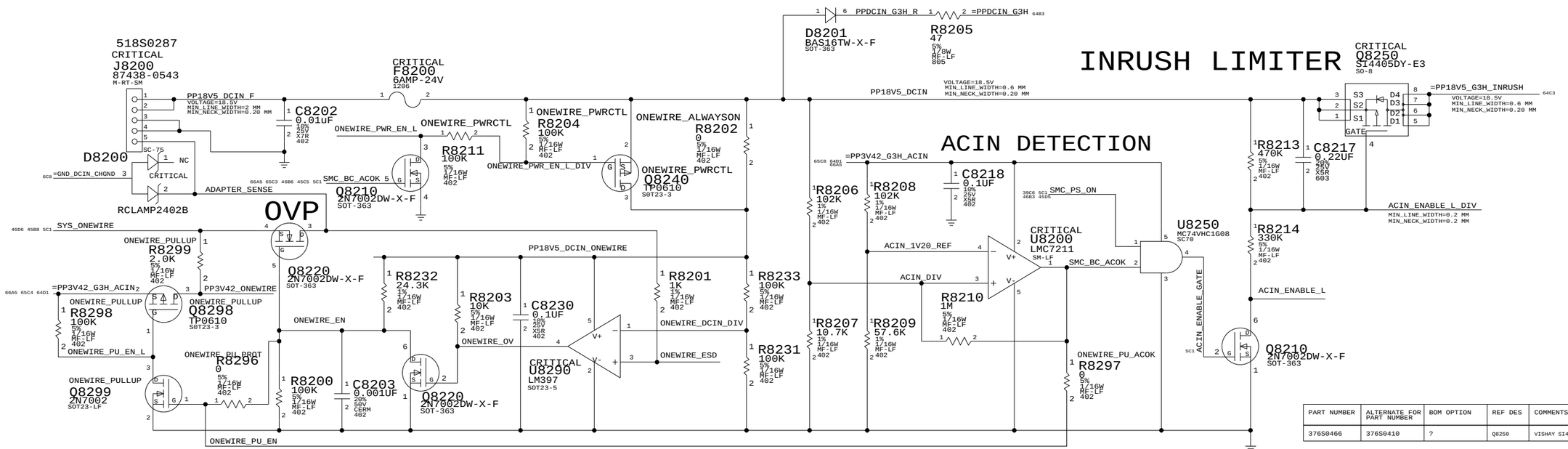
SYNC_MASTER=ENET SYNC_DATE=11/16/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A

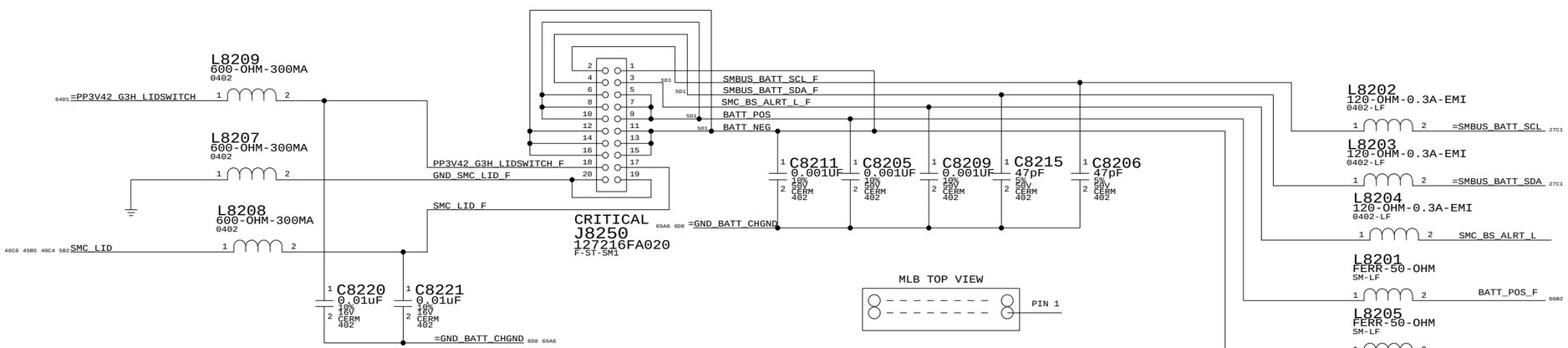
SCALE	SHT	OF
NONE	64	79

DC-JACK INTERFACE



PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
376S0466	376S0410	?	Q8250	VISHAY SI4413ADY

BATTERY INTERFACE



LID HALL EFFECT SENSOR

DC-In & Battery Connectors

SYNC_MASTER=POWER SYNC_DATE=07/13/2005

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A

SCALE: NONE SHT 65 OF 79

PBUS SUPPLY / BATTERY CHARGER

CHLIM circuit (R8362, R8363, C8328) subject to change pending M1 resolution (100mV offset, radar 4221420)

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
128S0093	128S0092	?	C8308,C8310	KEMET T520V336M016ATE045/650
376S0466	376S0410	?	Q8300,Q8320	VISHAY SI4413ADY
376S0466	376S0410	?	Q8321	VISHAY SI4413ADY

PBUS Supply/Battery Charger

SYNC_MASTER=SMC SYNC_DATE=08/19/2005

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APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 66 OF 79	

INVERTER CONNECTOR

=PP5V_S0_LCD
R9400 100K 1% 1/16W MF-LF 402
R9401 100K 1% 1/16W MF-LF 402
INV_PWREN_F_L
INV_PWREN_L
Q9405 TP0610 SOT23-3
Q9406 2N7002 SOT23-LF
LVDS_BKLTEN
C9414 0.0022UF 10% 50V CERM 402
PP5V_INV
MIN_LINE_WIDTH=0.30 MM
MIN_NECK_WIDTH=0.20 MM
VOLTAGE=5V

L9403 FERR-120-OHM-1.5A 0402-LF
=PPBUS_S5_INV
PPBUS_ALL_INV_CONN
VOLTAGE=12.6V
MIN_LINE_WIDTH=0.30 MM
MIN_NECK_WIDTH=0.20 MM
L9402 FERR-120-OHM-1.5A 0402-LF
L9400 120-OHM-0.3A-EMI 0402-LF
PP5V_INV_F
VOLTAGE=5V
MIN_LINE_WIDTH=0.30 MM
MIN_NECK_WIDTH=0.20 MM
L9401 120-OHM-0.3A-EMI 0402-LF

CRITICAL
J9400 88609-04001 F-ST-SM
INV_GND
INV_BKLIGHT_PWM_L

REPLACE 518S0334 WITH 518S0486

=PP3V3_S0_LCD
INVERTER_BUF
U9453 MC74VHC1G08 SC70
LVDS_BKLTCTL
C9459 0.1UF 10% 16V X5R 402
INVERTER_UNBUF
R9428 0 5% 1/16W MF-LF 402
BKLIGHT_CTL

C9401 100PF 5% 50V CERM 402
C9402 100PF 5% 50V CERM 402
C9403 100PF 5% 50V CERM 402
C9400 100PF 5% 50V CERM 402

INVT_CHGND
THIS GND CONECTS TO CHASSIS GND

LCD + CAMERA CONNECTOR

=PP3V3_S5_LCD
R9402 100K 5% 1/16W MF-LF 402
R9423 10K 5% 1/16W MF-LF 402
LCDVDD_PWREN_L
LCDVDD_PWREN_L_R
Q9404 2N7002 SOT23-LF
LVDS_VDDEN
R9414 100K 1% 1/16W MF-LF 402

Q9403 FDC638P SM-LF
C9413 0.0033UF 10% 50V CERM 402
C9411 0.1UF 10% 16V X5R 402
C9412 10UF 20% 6.3V X5R 603
PP3V3_LCDVDD_SW
VOLTAGE=3.3V
MIN_LINE_WIDTH=0.30 MM
MIN_NECK_WIDTH=0.20 MM

=PP3V3_S0_LCD
R9408 10K 5% 1/16W MF-LF 402
R9409 10K 5% 1/16W MF-LF 402
LVDS_DDC_CLK
LVDS_DDC_DATA

L9404 FERR-120-OHM-1.5A 0402-LF
L9408 120-OHM-0.3A-EMI 0402-LF
PP3V3_LCDVDD_SW_F
VOLTAGE=3.3V MIN_LINE_WIDTH=0.30 MM MIN_NECK_WIDTH=0.20 MM
PP3V3_S0_LCD_F (LVDS DDC POWER)
VOLTAGE=3.3V MIN_LINE_WIDTH=0.25 MM MIN_NECK_WIDTH=0.20 MM

C9409 0.001uF 10% 50V CERM 402
CRITICAL
J9401 S-050162B F-RT-SM
=GND_CHASSIS_LVDS

LVDS_A_DATA_N<0>
LVDS_A_DATA_P<0>
LVDS_A_DATA_N<1>
LVDS_A_DATA_P<1>
LVDS_A_DATA_N<2>
LVDS_A_DATA_P<2>
LVDS_A_CLK_N
LVDS_A_CLK_P
LCD I/F
CAMERA I/F

=PP3V3_S0_LCD
NOSTUFF
R9415 10K 5% 1/16W MF-LF 402
R9416 10K 5% 1/16W MF-LF 402
LVDS_CLKCTLA
LVDS_CLKCTLB

CRITICAL
L9407 90-OHM SM SYM_VER-1
=USB2_CAMERA_P
=USB2_CAMERA_N
USB2_CAMERA_CONN_P
USB2_CAMERA_CONN_N

L9405 FERR-120-OHM-1.5A 0402-LF
=PP5V_S3_CAMERA
PP5V_S3_CAMERA_F
VOLTAGE=5V
MIN_NECK_WIDTH=0.20 MM
MIN_LINE_WIDTH=0.30 MM

=SMBUS_ATS_SCL
=SMBUS_ATS_SDA

C9416 0.001uF 10% 50V CERM 402
C9415 0.001uF 10% 50V CERM 402
C9410 0.001uF 10% 50V CERM 402
C9408 0.001uF 10% 50V CERM 402

=GND_CHASSIS_LVDS
Plexi: 516S0212
*Enclosure: 518S0364

LVDS REFERENCE CURRENT,1.5K OHM PULL DOWN RESISTOR NEEDED
LVDS_VREFH
LVDS_VREFL
LVDS_IBG
R9413 1.5K 1% 1/16W MF-LF 402

INVERTER,LVDS,TMDS

SYNC_MASTER=GRAPHIC SYNC_DATE=06/06/2005

APPLE COMPUTER INC.

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D	051-7374	A
SCALE: NONE	SHT 67 OF 79	

L9506
120-OHM-0.3A-EMI
=PP3V3_S0_TMDS
0402-LF
PP3V3_S0_ANALOG_TMDS_F
VOLTAGE=3.3V
MIN_LINE_WIDTH=0.5MM
MIN_NECK_WIDTH=0.25MM
C9536 0.001UF 10% 50V CERM 402
C9537 0.001UF 10% 50V CERM 402
C9538 0.1UF 10% 16V X5R 402
C9539 0.1UF 10% 16V X5R 402
C9540 10UF 20% 6.3V X5R 603
ONE 0.1UF AND 0.001UF FOR EACH PIN

L9503
120-OHM-0.3A-EMI
=PP3V3_S0_TMDS
0402-LF
PP3V3_S0_ANALOG_SDVO_F
VOLTAGE=3.3V
MIN_LINE_WIDTH=0.3MM
MIN_NECK_WIDTH=0.25MM
C9530 0.001UF 10% 50V CERM 402
C9531 0.1UF 10% 16V X5R 402
C9514 0.1UF 10% 16V X5R 402

L9504
120-OHM-0.3A-EMI
=PP3V3_S0_TMDS
0402-LF
PP3V3_S0_PVCC1_TMDS_F
VOLTAGE=3.3V
MIN_LINE_WIDTH=0.3MM
MIN_NECK_WIDTH=0.25MM
C9532 0.001UF 10% 50V CERM 402
C9533 0.1UF 10% 16V X5R 402
C9506 0.1UF 10% 16V X5R 402

L9505
120-OHM-0.3A-EMI
=PP3V3_S0_TMDS
0402-LF
PP3V3_S0_PVCC2_TMDS_F
VOLTAGE=3.3V
MIN_LINE_WIDTH=0.3MM
MIN_NECK_WIDTH=0.25MM
C9534 0.001UF 10% 50V CERM 402
C9535 0.1UF 10% 16V X5R 402

L9501
120-OHM-0.3A-EMI
=PP1V8_S0_TMDS
0402-LF
PP1V8_S0_TMDS_F
VOLTAGE=1.8V
MIN_LINE_WIDTH=0.5MM
MIN_NECK_WIDTH=0.25MM
C9507 0.1UF 10% 16V X5R 402
C9508 0.001UF 10% 50V CERM 402
C9509 0.1UF 10% 16V X5R 402
C9510 0.001UF 10% 50V CERM 402
C9511 0.1UF 10% 16V X5R 402
C9512 0.001UF 10% 50V CERM 402
C9513 10UF 20% 6.3V X5R 603
ONE 0.1UF AND 0.001UF FOR EACH PIN

L9500
120-OHM-0.3A-EMI
=PP1V8_S0_TMDS
0402-LF
PP1V8_S0_ANALOG_SDVO_F
VOLTAGE=1.8V
MIN_LINE_WIDTH=0.5MM
MIN_NECK_WIDTH=0.25MM
C9500 0.001UF 10% 50V CERM 402
C9501 0.001UF 10% 50V CERM 402
C9502 0.1UF 10% 16V X5R 402
C9503 0.1UF 10% 16V X5R 402
C9504 10UF 20% 6.3V X5R 603
ONE 0.1UF AND 0.001UF FOR EACH PIN

R9507 49.9 1% 1/10W MF-LF 402 — TMDS_TX_P<0> — TMDS_TX<0> — R9537 49.9 1% 1/10W MF-LF 402 — TMDS_TX_N<0>
C9522 0.001UF 10% 50V CERM 402
R9508 49.9 1% 1/10W MF-LF 402 — TMDS_TX_P<1> — TMDS_TX<1> — R9538 49.9 1% 1/10W MF-LF 402 — TMDS_TX_N<1>
C9523 0.001UF 10% 50V CERM 402
R9509 49.9 1% 1/10W MF-LF 402 — TMDS_TX_P<2> — TMDS_TX<2> — R9539 49.9 1% 1/10W MF-LF 402 — TMDS_TX_N<2>
C9524 0.001UF 10% 50V CERM 402
R9510 49.9 1% 1/10W MF-LF 402 — TMDS_TX_CLK_P — TMDS_TX_CLK — R9540 49.9 1% 1/10W MF-LF 402 — TMDS_TX_CLK_N
NOSTUFF C9526 10pF 5% 50V CERM 402
C9525 0.001UF 10% 50V CERM 402
NOSTUFF C9527 10pF 5% 50V CERM 402
C9526,C9527 close to CHIP

MCH SDVO CHANNEL R,G,B,CLK SIGNAL TO TMDS CHIP
PLACE THE CAP NEAR THE NB SIDE
PEG_R2D_C_P<0>
PEG_R2D_C_N<0>
PEG_R2D_C_P<1>
PEG_R2D_C_N<1>
PEG_R2D_C_P<2>
PEG_R2D_C_N<2>
PEG_R2D_C_P<3>
PEG_R2D_C_N<3>
C9541 0.1UF 10% 16V X5R 402
C9542 0.1UF 10% 16V X5R 402
C9543 0.1UF 10% 16V X5R 402
C9544 0.1UF 10% 16V X5R 402
C9545 0.1UF 10% 16V X5R 402
C9546 0.1UF 10% 16V X5R 402
C9547 0.1UF 10% 16V X5R 402
C9548 0.1UF 10% 16V X5R 402

PP3V3_S0_ANALOG_SDVO_F
PP1V8_S0_ANALOG_SDVO_F
PP3V3_S0_PVCC2_TMDS_F
PP3V3_S0_PVCC1_TMDS_F
PP3V3_S0_ANALOG_TMDS_F
PP1V8_S0_TMDS_F

U9500
CRITICAL
SIL1362ACLU
LQFP

TMDS_SDR_P	37	SDR_P	
TMDS_SDR_N	38	SDR_N	
TMDS_SDG_P	40	SDG_P	
TMDS_SDG_N	41	SDG_N	
TMDS_SDB_P	43	SDB_P	
TMDS_SDB_N	44	SDB_N	
TMDS_SDC_P	46	SDC_P	
TMDS_SDC_N	47	SDC_N	
TMDS_INT_P	32	SDI_P	
TMDS_INT_N	33	SDI_N	
TMDS_EXT_RES	35	EXT_RES	
TMDS_RST_L	2	RESET*	
SDVO_CTRLCLK	5	SDSCL	
SDVO_CTRLDATA	4	SDSDA	
	6	A1	
TMDS_HTPLG_R	29	HTPLG	
	7	GND0	
	31	GND1	
	12	AGND0	
	18	AGND1	
	24	AGND2	
	27	PGND2	
	39	SGND0	
	45	SGND1	
	3	SPGND	
	10	VCC0	
	28	VCC1	
	34	VCC2	
	15	AVCC0	
	21	AVCC1	
	11	PVCC1	
	26	PVCC2	
	36	SVCC0	
	42	SVCC1	
	48	SPVCC	
	1	OVCC	

SDVO RCVR CORE
DIFF SIG DATA
I2C MASTER INTER
CONFIG/ PRGRM
TEST MODE

TMDS_TX_P<0>	17	TX0_P	OUT
TMDS_TX_N<0>	16	TX0_N	OUT
TMDS_TX_P<1>	20	TX1_P	OUT
TMDS_TX_N<1>	19	TX1_N	OUT
TMDS_TX_P<2>	23	TX2_P	OUT
TMDS_TX_N<2>	22	TX2_N	OUT
TMDS_TX_CLK_P	14	TXC_P	OUT
TMDS_TX_CLK_N	13	TXC_N	OUT
TMDS_EXT_SWING	25	EXT_SWING	
TMDS_I2C_SCL	8	SCLDDC	
TMDS_I2C_SDA	9	SDADDC	
	30	TEST	

=PP3V3_S0_TMDS
C9521 0.1UF 10% 16V X5R 402
C9505 10UF 20% 6.3V X5R 603
PP3V3_S0_ANALOG_TMDS_F
R9504 249 1% 1/16W MF-LF 402
=PP3V3_S0_TMDS
R9505 10K 5% 1/16W MF-LF 402
R9506 10K 5% 1/16W MF-LF 402
TMDS_I2C_SCL AND TMDS_I2C_SDA DON'T NEED TO CONNECT

PLACE IT CLOSE TO CONNECTOR
=PP5V_S0_TMDS
D9500 BAV99DW-X-F SOT-363
=PP2V5_S0_TMDS
R9501 3.3K 5% 1/16W MF-LF 402
R9502 3.3K 5% 1/16W MF-LF 402
PEG_D2R_P<1>
PEG_D2R_N<1>
C9519 0.1UF 10% 16V X5R 402
C9520 0.1UF 10% 16V X5R 402
TMDS CHIP SDVO INPUT INTERRUPT SIGNAL TO MCH
R9500 2.2K 5% 1/16W MF-LF 402
TMDS_HTPLG
TMDS_HTPLG_R
R9503 1K 5% 1/16W MF-LF 402
NC
D9500 BAV99DW-X-F SOT-363
PP5V_S0_DVIPORT
PP5V_S0_DVIPORT_D

EXTERNAL TMDS

SYNC_MASTER=GRAPHIC SYNC_DATE=06/06/2005

APPLE COMPUTER INC.

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D	051-7374	A
SCALE: NONE	SHT 68 OF 79	

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
155S0227	155S0164	?	L9805,L9806,L9807	KEEP MAG.LAYER IN BOM

Video Connectors

EXTERNAL VIDEO (VGA) INTERFACE

Isolation required for DVI power switch

TMDS(MINI DVI) INTERFACE

=PP3V3_S0_TMDS 64A6 68B1 68B2 68C8 68D8 69B7 69D1

Q9801 2N7002DW-X-F SOT-363

R9821 2.2K 5% 1/16W MF-LF 402

R9822 2.2K 5% 1/16W MF-LF 402

GPU_CRT_DDC_CLK 69B6

GPU_CRT_DDC_DATA 69B6

13B5 CRT_DDC_CLK

13B5 CRT_DDC_DATA

Q9801 2N7002DW-X-F SOT-363

=PP5V_S0_TMDS 68B7 64D3

F9804 0.5AMP-13.2V SM-LF

VOLTAGE=5V MIN_LINE_WIDTH=0.5 MM MIN_NECK_WIDTH=0.25 MM

PP5V_S0_TMDS_FUSE

L9844 400-OHM-EMI SM-1

VOLTAGE=5V MIN_LINE_WIDTH=0.5 MM MIN_NECK_WIDTH=0.25 MM

PP5V_S0_DVIPORT 68A6 69B4

C9804 0.1UF 20% 10V CERM 402

=GND_CHASSIS_TMDS_UPPER 6C8 69A4

PLACE THE RESISTOR CLOSE TO GMCH AND THE CAP NEAR CONNECTOR

=PP3V3_S0_TMDS 64A6 68B1 68B2 68C8 68D8 69B7 69D5

C9860 0.1UF 20% 10V CERM 402

U9804 SN74LVC2G125DCU

13B5 CRT_HSYNC_R

R9860 39 5% 1/16W MF-LF 402

CRT_HSYNC_LS_R

CRT_HSYNC_LS

R9870 39 5% 1/16W MF-LF 402

VGA_HSYNC 69B4

NOSTUFF C9842 33PF 5% 50V CERM 402

PLACE THE RESISTOR CLOSE TO GMCH AND THE CAP NEAR THE CONNECTOR

U9804 SN74LVC2G125DCU

13B5 CRT_VSYNC_R

R9861 39 5% 1/16W MF-LF 402

CRT_VSYNC_LS_R

CRT_VSYNC_LS

R9871 39 5% 1/16W MF-LF 402

VGA_VSYNC 69B4

NOSTUFF C9843 33PF 5% 50V CERM 402

A 255 OHM 1% RESISTOR IS REQUIRED BETWEEN CRT_IREF AND GROUND

13B5 CRT_IREF

R9869 255 1% 1/16W MF-LF 402

TV REFERENCE CURRENT,USES AN EXTERNAL RESISTOR OF 5K OHM 1% TO SET INTERNAL VOLTAGE LEVELS

13C5 TV_IREF

R9868 4.99K 1% 1/16W MF-LF 402

PP5V_S0_DVIPORT_D 68A8

DVI power DIODE on page 95 (D9500)

R9862 2.2K 5% 1/16W MF-LF 402

R9863 2.2K 5% 1/16W MF-LF 402

68A7 TMDS_HTPLG

C9808 0.001uF 10% 50V CERM 402

69D5 GPU_CRT_DDC_CLK

C9809 100pF 5% 50V CERM 402

69D5 GPU_CRT_DDC_DATA

C9812 100pF 5% 50V CERM 402

OMIT CRITICAL

J9801 MINI-DVI RT-TH

PP5V_S0_DVIPORT 68A6 69C3

NC NC

TMDS_TX_CONN_P<2>

TMDS_TX_CONN_N<2>

TMDS_TX_CONN_P<1>

TMDS_TX_CONN_N<1>

TMDS_TX_CONN_P<0>

TMDS_TX_CONN_N<0>

TMDS_TX_CONN_CLK_P

TMDS_TX_CONN_CLK_N

CRITICAL L9805 90-OHM-300MA 2012H SYM_VER-1

TMDS_TX_P<2> 68B2 68C3

TMDS_TX_N<2> 68B2 68C1

CRITICAL L9807 90-OHM-300MA 2012H SYM_VER-1

TMDS_TX_P<1> 68B2 68D3

TMDS_TX_N<1> 68B2 68D1

CRITICAL L9806 90-OHM-300MA 2012H SYM_VER-1

TMDS_TX_P<0> 68B2 68D3

TMDS_TX_N<0> 68B2 68D1

CRITICAL L9804 370-OHM-280MA SM1

TMDS_TX_CLK_P 68B2 68C3

TMDS_TX_CLK_N 68B2 68C1

PLACE THE RESISTOR CLOSE TO GMCH

13C5 TV_DACA_OUT

13B5 CRT_BLUE

R9850 75 1% 1/16W MF-LF 402

R9851 75 1% 1/16W MF-LF 402

13C5 TV_IRTNA

13B5 CRT_BLUE_L

68B2 68B1 69D5 64A6 68D1 68D8 68C8 =PP3V3_S0_TMDS

C9839 0.1UF 10% 16V X5R 402

EXT_COMPVID_B

FL9800 LCFILTER SM-220MHZ-LF

NOSTUFF R9856 150 1% 1/16W MF-LF 402

VGA_B 69C1 VGA_HSYNC

C9824 3.3PF 0.25% 50V CERM 402

PLACE THE RESISTOR CLOSE TO GMCH

13C5 TV_DACB_OUT

13B5 CRT_GREEN

R9852 75 1% 1/16W MF-LF 402

R9853 75 1% 1/16W MF-LF 402

13C5 TV_IRTNB

13B5 CRT_GREEN_L

CRITICAL U9801 TS3V330 SOP

S1A S2A S1B S2B S1C S2C S1D S2D DA DB DC DD IN EN_L VCC GND

EXT_Y_G

FL9801 LCFILTER SM-220MHZ-LF

NOSTUFF R9864 150 1% 1/16W MF-LF 402

VGA_G 69C1 VGA_VSYNC

C9834 3.3PF 0.25% 50V CERM 402

VGA_R

PLACE THE RESISTOR CLOSE TO GMCH

13C5 TV_DACC_OUT

13B5 CRT_RED

R9854 75 1% 1/16W MF-LF 402

R9855 75 1% 1/16W MF-LF 402

13C5 TV_IRTNC

13B5 CRT_RED_L

EXT_C_R

FL9802 LCFILTER SM-220MHZ-LF

NOSTUFF R9859 150 1% 1/16W MF-LF 402

C9820 3.3PF 0.25% 50V CERM 402

6C8 =GND_CHASSIS_TMDS_UPPER 69C3

6A6 =GND_CHASSIS_TMDS_DOWN

NOSTUFF C9821 0.1UF 10% 16V X5R 402

=SB_GPIO22 6B2

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
514-0292	1	CONN,32P MINI-DVI RCPT,RA,MG3,LF	J9801	CRITICAL	NORMAL
514-0319	1	CONN,32P MINI-DVI RCPT,RA,BLACK,LF	J9801	CRITICAL	FANCY

MINI-DVI CONNECTOR

SYNC_MASTER=EUGENE SYNC_DATE=05/21/05

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	051-7374	A
SCALE: NONE	SHT 69 OF 79	

Title: Basenet Report
Design: mlb_noldo
Date: Mar 22 15:44:50 2007

Base nets and synonyms for
mlb_noldo_lib.MLB_NOLDO(@mlb_noldo_lib.mlb_noldo(sch_1))

Base Signal	Synonyms	Location([Zone][dir])
1V2_FB	1V2_FB - @mlb_noldo_lib.MLB_NOLDO	60A3
1V05S0_BG	1V05S0_BG - @mlb_noldo_lib.MLB_NOLDO	62B4
1V05S0_BOOST	1V05S0_BOOST - @mlb_noldo_lib.MLB_NOLDO	62B4
1V05S0_BOOST_RC	1V05S0_BOOST_RC - @mlb_noldo_lib.MLB_NOLDO	62C3
1V05S0_COMP	1V05S0_COMP - @mlb_noldo_lib.MLB_NOLDO	5D7
1V05S0_FSET	1V05S0_FSET - @mlb_noldo_lib.MLB_NOLDO	5D7
1V05S0_ITH	1V05S0_ITH - @mlb_noldo_lib.MLB_NOLDO	62B4
1V05S0_ITH_RC	1V05S0_ITH_RC - @mlb_noldo_lib.MLB_NOLDO	62B3
1V05S0_RUNSS	1V05S0_RUNSS - @mlb_noldo_lib.MLB_NOLDO	62B4 63B7
1V05S0_SNS_N	1V05S0_SNS_N - @mlb_noldo_lib.MLB_NOLDO	62C3
1V05S0_SNS_P	1V05S0_SNS_P - @mlb_noldo_lib.MLB_NOLDO	62C3
1V05S0_SW	1V05S0_SW - @mlb_noldo_lib.MLB_NOLDO	62B4
1V05S0_TG	1V05S0_TG - @mlb_noldo_lib.MLB_NOLDO	62C4
1V05S0_VOSNS	1V05S0_VOSNS - @mlb_noldo_lib.MLB_NOLDO	62B4
1V5S0_BG	1V5S0_BG - @mlb_noldo_lib.MLB_NOLDO	62B5
1V5S0_BOOST	1V5S0_BOOST - @mlb_noldo_lib.MLB_NOLDO	62B5
1V5S0_BOOST_RC	1V5S0_BOOST_RC - @mlb_noldo_lib.MLB_NOLDO	62C6
1V5S0_ITH	1V5S0_ITH - @mlb_noldo_lib.MLB_NOLDO	62B5
1V5S0_ITH_RC	1V5S0_ITH_RC - @mlb_noldo_lib.MLB_NOLDO	62B5
1V5S0_RUNSS	1V5S0_RUNSS - @mlb_noldo_lib.MLB_NOLDO	5D7 62B5 63B7
1V5S0_SNS_N	1V5S0_SNS_N - @mlb_noldo_lib.MLB_NOLDO	62C6
1V5S0_SNS_P	1V5S0_SNS_P - @mlb_noldo_lib.MLB_NOLDO	62C6
1V5S0_SW	1V5S0_SW - @mlb_noldo_lib.MLB_NOLDO	62B5
1V5S0_TG	1V5S0_TG - @mlb_noldo_lib.MLB_NOLDO	62C5
1V5S0_VOSNS	1V5S0_VOSNS - @mlb_noldo_lib.MLB_NOLDO	62B5
1V8S3_BOOT	1V8S3_BOOT - @mlb_noldo_lib.MLB_NOLDO	61B5
1V8S3_BOOT_RC	1V8S3_BOOT_RC - @mlb_noldo_lib.MLB_NOLDO	61C4
1V8S3_COMP	1V8S3_COMP - @mlb_noldo_lib.MLB_NOLDO	5D7 61B6
1V8S3_COMP_R	1V8S3_COMP_R - @mlb_noldo_lib.MLB_NOLDO	61B6
1V8S3_FB	1V8S3_FB - @mlb_noldo_lib.MLB_NOLDO	61B6
1V8S3_FCCM	1V8S3_FCCM - @mlb_noldo_lib.MLB_NOLDO	61B6
1V8S3_FSET	1V8S3_FSET - @mlb_noldo_lib.MLB_NOLDO	5D7 61C6
1V8S3_ISEN	1V8S3_ISEN - @mlb_noldo_lib.MLB_NOLDO	61B5
1V8S3_LG	1V8S3_LG - @mlb_noldo_lib.MLB_NOLDO	61B5
1V8S3_PHASE	1V8S3_PHASE - @mlb_noldo_lib.MLB_NOLDO	61B5
1V8S3_UG	1V8S3_UG - @mlb_noldo_lib.MLB_NOLDO	61C5
1V8S3_VCC	1V8S3_VCC - @mlb_noldo_lib.MLB_NOLDO	61C6
1V51V05S0_FCB	1V51V05S0_FCB - @mlb_noldo_lib.MLB_NOLDO	62A3 62B5
1V51V05S0_FSEL	1V51V05S0_FSEL - @mlb_noldo_lib.MLB_NOLDO	62A2 62B4
1V51V05S0_PGOOD	1V51V05S0_PGOOD - @mlb_noldo_lib.MLB_NOLDO	58C7 62A1 63C2
2V5S0_BP	2V5S0_BP - @mlb_noldo_lib.MLB_NOLDO	60C3
2V5S3_BP	2V5S3_BP - @mlb_noldo_lib.MLB_NOLDO	60C3
3V3S5_BG	3V3S5_BG - @mlb_noldo_lib.MLB_NOLDO	59B5
3V3S5_BOOST	3V3S5_BOOST - @mlb_noldo_lib.MLB_NOLDO	59B5
3V3S5_BOOST_RC	3V3S5_BOOST_RC - @mlb_noldo_lib.MLB_NOLDO	59C6
3V3S5_COMP	3V3S5_COMP - @mlb_noldo_lib.MLB_NOLDO	5D7
3V3S5_FSET	3V3S5_FSET - @mlb_noldo_lib.MLB_NOLDO	5D7
3V3S5_ITH	3V3S5_ITH - @mlb_noldo_lib.MLB_NOLDO	59B5
3V3S5_ITH_RC	3V3S5_ITH_RC - @mlb_noldo_lib.MLB_NOLDO	59B5
3V3S5_RUNSS	3V3S5_RUNSS - @mlb_noldo_lib.MLB_NOLDO	59B5 63C7
3V3S5_SNS_N	3V3S5_SNS_N - @mlb_noldo_lib.MLB_NOLDO	59C6
3V3S5_SNS_P	3V3S5_SNS_P - @mlb_noldo_lib.MLB_NOLDO	59C6
3V3S5_SW	3V3S5_SW - @mlb_noldo_lib.MLB_NOLDO	59B5
3V3S5_TG	3V3S5_TG - @mlb_noldo_lib.MLB_NOLDO	59C5
3V3S5_VOSNS	3V3S5_VOSNS - @mlb_noldo_lib.MLB_NOLDO	59B5
5V3V3S5_FCB	5V3V3S5_FCB - @mlb_noldo_lib.MLB_NOLDO	59A3 59B5
5V3V3S5_FSEL	5V3V3S5_FSEL - @mlb_noldo_lib.MLB_NOLDO	59A2 59B4
5VS5_BG	5VS5_BG - @mlb_noldo_lib.MLB_NOLDO	59B4
5VS5_BOOST	5VS5_BOOST - @mlb_noldo_lib.MLB_NOLDO	59B4
5VS5_BOOST_RC	5VS5_BOOST_RC - @mlb_noldo_lib.MLB_NOLDO	59C3
5VS5_ITH	5VS5_ITH - @mlb_noldo_lib.MLB_NOLDO	59B4
5VS5_ITH_RC	5VS5_ITH_RC - @mlb_noldo_lib.MLB_NOLDO	59B3
5VS5_RUNSS	5VS5_RUNSS - @mlb_noldo_lib.MLB_NOLDO	5D7 59B4 63C7
5VS5_SNS_N	5VS5_SNS_N - @mlb_noldo_lib.MLB_NOLDO	59C3
5VS5_SNS_P	5VS5_SNS_P - @mlb_noldo_lib.MLB_NOLDO	59C3
5VS5_SW	5VS5_SW - @mlb_noldo_lib.MLB_NOLDO	59B4
5VS5_TG	5VS5_TG - @mlb_noldo_lib.MLB_NOLDO	59C4
5VS5_VOSNS	5VS5_VOSNS - @mlb_noldo_lib.MLB_NOLDO	59B4
5V_REG_IN	5V_REG_IN - @mlb_noldo_lib.MLB_NOLDO	54A5
=EXTBUSB_OC_L	=EXTBUSB_OC_L - @mlb_noldo_lib.MLB_NOLDO	6C2 42C8
	USB_C_OC_L - @mlb_noldo_lib.MLB_NOLDO	6C1 22C4 22D8
	EXTBUSB_OC_L - @mlb_noldo_lib.MLB_NOLDO	6C2
=FWPWR_PWRON	=FWPWR_PWRON - @mlb_noldo_lib.MLB_NOLDO	6D2 39C6
	NC_FWPWR_PWRON - @mlb_noldo_lib.MLB_NOLDO	6D1
=GND_BATT_CHGND	=GND_BATT_CHGND - @mlb_noldo_lib.MLB_NOLDO	6D8 65A6 65A6
	=GND_CHASSIS_AUDIO_JACK - @mlb_noldo_lib.MLB_NOLDO	6D8 56B8
	=GND_CHASSIS_AUDIO_MIC - @mlb_noldo_lib.MLB_NOLDO	6D8 57A6
	=GND_CHASSIS_DIPDIMM_LEFT - @mlb_noldo_lib.MLB_NOLDO	6D8 28A5
	GND_CHASSIS_IO - @mlb_noldo_lib.MLB_NOLDO	6C7 6D7
	=GND_CHASSIS_USB - @mlb_noldo_lib.MLB_NOLDO	6C8 42A2 42A4 42C2 42C4
	=GND_CHASSIS_FW_DOWN - @mlb_noldo_lib.MLB_NOLDO	6C8 39A1
	GND_CHASSIS_IO - @mlb_noldo_lib.MLB_NOLDO	6C7 6D7
	=GND_CHASSIS_USB - @mlb_noldo_lib.MLB_NOLDO	6C8 42A2 42A4 42C2 42C4
	=GND_CHASSIS_FW_DOWN - @mlb_noldo_lib.MLB_NOLDO	6C8 39A1
	=GND_CHASSIS_DIPDIMM_LEFT - @mlb_noldo_lib.MLB_NOLDO	6D8 28A5
	=GND_CHASSIS_AUDIO_SPKRCONN - @mlb_noldo_lib.MLB_NOLDO	6D8
	=GND_CHASSIS_AUDIO_SHIELD3 - @mlb_noldo_lib.MLB_NOLDO	6D8
	=GND_CHASSIS_AUDIO_SHIELD2 - @mlb_noldo_lib.MLB_NOLDO	6D8
	=GND_CHASSIS_AUDIO_SHIELD1 - @mlb_noldo_lib.MLB_NOLDO	6D8
	=GND_CHASSIS_AUDIO_MIC - @mlb_noldo_lib.MLB_NOLDO	6D8 57A6
	=GND_CHASSIS_AUDIO_JACK - @mlb_noldo_lib.MLB_NOLDO	6D8 56B8
=GND_CHASSIS_DIPDIMM_CENTER	=GND_CHASSIS_DIPDIMM_CENTER - @mlb_noldo_lib.MLB_NOLDO	6B8 28D5 29A5
=GND_CHASSIS_DIPDIMM_RIGHT	GND_CHASSIS_CENTER - @mlb_noldo_lib.MLB_NOLDO	6B7
	=GND_CHASSIS_DIPDIMM_RIGHT - @mlb_noldo_lib.MLB_NOLDO	6B8 29D4
=GND_CHASSIS_FW_UPPER	GND_CHASSIS_RIGHT - @mlb_noldo_lib.MLB_NOLDO	6B7
	=GND_CHASSIS_FW_UPPER - @mlb_noldo_lib.MLB_NOLDO	6A6 39A1
	=GND_CHASSIS_TMDS_DOWN - @mlb_noldo_lib.MLB_NOLDO	6A6 69A3
	GND_CHASSIS_IO1 - @mlb_noldo_lib.MLB_NOLDO	6A5
	=GND_CHASSIS_TMDS_DOWN - @mlb_noldo_lib.MLB_NOLDO	6A6 69A3
=GND_CHASSIS_LVDS	=GND_CHASSIS_LVDS - @mlb_noldo_lib.MLB_NOLDO	6C8 67A2 67B2
	GND_CHASSIS_SATA - @mlb_noldo_lib.MLB_NOLDO	6C7 35C8
=GND_CHASSIS_RJ45	=GND_CHASSIS_RJ45 - @mlb_noldo_lib.MLB_NOLDO	6C8 37A4
	=GND_CHASSIS_TMDS_UPPER - @mlb_noldo_lib.MLB_NOLDO	6C8 69A4 69C3
	GND_CHASSIS_DCIN - @mlb_noldo_lib.MLB_NOLDO	6C7
	=GND_DCIN_CHGND - @mlb_noldo_lib.MLB_NOLDO	6C8 65C8
	GND_CHASSIS_DCIN - @mlb_noldo_lib.MLB_NOLDO	6C7
	=GND_DCIN_CHGND - @mlb_noldo_lib.MLB_NOLDO	6C8 65C8
	=GND_CHASSIS_TMDS_UPPER - @mlb_noldo_lib.MLB_NOLDO	6C8 69A4 69C3
=P1V2S0_EN	=P1V2S0_EN - @mlb_noldo_lib.MLB_NOLDO	63B5
	PM_SLP_S3_LS12V6_L - @mlb_noldo_lib.MLB_NOLDO	63B6
	=P3V3S0_EN - @mlb_noldo_lib.MLB_NOLDO	63B5
	=P5VS0_EN - @mlb_noldo_lib.MLB_NOLDO	63C5
	PM_SLP_S3_LS12V6_L - @mlb_noldo_lib.MLB_NOLDO	63B6
=P1V8S0_EN_L	=P1V8S0_EN_L - @mlb_noldo_lib.MLB_NOLDO	63A5
	PM_SLP_S3_LS5V - @mlb_noldo_lib.MLB_NOLDO	63A6
=P3V3S3_EN_L	=P3V3S3_EN_L - @mlb_noldo_lib.MLB_NOLDO	63C5
	PM_SLP_S4_LS5V - @mlb_noldo_lib.MLB_NOLDO	42B8 63D6
	=P5VS3_EN_L - @mlb_noldo_lib.MLB_NOLDO	63D5
	PM_SLP_S4_LS5V - @mlb_noldo_lib.MLB_NOLDO	42B8 63D6
=PP1V05_S0_FSB_NB	=PP1V05_S0_FSB_NB - @mlb_noldo_lib.MLB_NOLDO	12A7 12B7 12C2 19D7 33B8
	@mlb_noldo_lib.MLB_NOLDO	33C7 33C8 64D6
	=PP1V05_S0_NB - @mlb_noldo_lib.MLB_NOLDO	19D1 19D7 64C6
	=PP1V05_S0_CPU_NB - @mlb_noldo_lib.MLB_NOLDO	62A6 64D8
	=PP1V05_S0_NB_VTT - @mlb_noldo_lib.MLB_NOLDO	17D3 19B5 19D7 64C6
	=PP1V05_S0_CPU - @mlb_noldo_lib.MLB_NOLDO	7B5 7B6 7D5 7D5 8C7 9C8
	=PPVCORE_S0_NB - @mlb_noldo_lib.MLB_NOLDO	16C8 16D3 19C8 19D7 64D6
	PP1V05_S0_CPU_NB - @mlb_noldo_lib.MLB_NOLDO	64D7
	=PPVCORE_S0_NB - @mlb_noldo_lib.MLB_NOLDO	16C8 16D3 19C8 19D7 64D6
	=PP1V05_S0_NB_VTT - @mlb_noldo_lib.MLB_NOLDO	17D3 19B5 19D7 64C6
	=PP1V05_S0_NB - @mlb_noldo_lib.MLB_NOLDO	19D1 19D7 64C6
	=PP1V05_S0_CPU_NB - @mlb_noldo_lib.MLB_NOLDO	62A6 64D8
	=PP1V05_S0_CPU - @mlb_noldo_lib.MLB_NOLDO	7B5 7B6 7D5 7D5 8C7 9C8
=PP1V05_S0_REG	=PP1V05_S0_REG - @mlb_noldo_lib.MLB_NOLDO	5B2 62B1 64D8
	=PP1V05_S0_CPU_NB_SENSE - @mlb_noldo_lib.MLB_NOLDO	62A8 64D6
	=PP1V05_S0_SB_CPU_IO - @mlb_noldo_lib.MLB_NOLDO	21C1 21C1 24C3 25C4 64D6
	=PPVCORE_S0_SB - @mlb_noldo_lib.MLB_NOLDO	24D3 25D3 64D6
	PP1V05_S0 - @mlb_noldo_lib.MLB_NOLDO	5B2 64D7
	=PPVCORE_S0_SB - @mlb_noldo_lib.MLB_NOLDO	24D3 25D3 64D6
	=PP1V05_S0_SB_CPU_IO - @mlb_noldo_lib.MLB_NOLDO	21C1 21C1 24C3 25C4 64D6
	=PP1V05_S0_CPU_NB_SENSE - @mlb_noldo_lib.MLB_NOLDO	62A8 64D6
=PP1V5_S0_NB	=PP1V5_S0_NB - @mlb_noldo_lib.MLB_NOLDO	19C1 19D7 64C6
	=PP1V5_S0_NB_PCIE - @mlb_noldo_lib.MLB_NOLDO	13D2 19D7 64C6
	=PP1V5_S0_AIRPORT - @mlb_noldo_lib.MLB_NOLDO	43D3 64C6
	=PP1V5_S0_SB_VCCSATAPLL - @mlb_noldo_lib.MLB_NOLDO	24B5 25D6 64C6
	=PP1V5_S0_SB_VCC1_5_A_ATX - @mlb_noldo_lib.MLB_NOLDO	24A5 25C6 64C6
	=PP1V5_S0_SB_VCCUSBPLL - @mlb_noldo_lib.MLB_NOLDO	24A5 25B6 64C6
	=PP1V5_S0_SB_VCC1_5_A_USB_CORE - @mlb_noldo_lib.MLB_NOLDO	24A3 25B2 64C6
	=PP1V5_S0_SB_VCC1_5_A - @mlb_noldo_lib.MLB_NOLDO	24A3 25C2 64C6
	=PP1V5_S0_SB - @mlb_noldo_lib.MLB_NOLDO	25A8 25C8 64C6
	=PP1V5_S0_NB_VCCAUX - @mlb_noldo_lib.MLB_NOLDO	16D1 17B6 19B6 19D7 64C6
	=PP1V5_S0_NB_TVDAC - @mlb_noldo_lib.MLB_NOLDO	19A8 19D7 64C6
	=PP1V5_S0_NB_PLL - @mlb_noldo_lib.MLB_NOLDO	19C6 19D7 64C6
	=PP1V5_S0_NB_3GPLL - @mlb_noldo_lib.MLB_NOLDO	19A5 64C6
	=PP1V5_S0_NB_3G - @mlb_noldo_lib.MLB_NOLDO	19B5 64C6
	=PP1V5_S0_CPU - @mlb_noldo_lib.MLB_NOLDO	8B7 9D8 64C6
	=PP1V5_S0_AIRPORT - @mlb_noldo_lib.MLB_NOLDO	43D3 64C6
=PP1V8_S3_MEM_NB	=PP1V8_S3_MEM_NB - @mlb_noldo_lib.MLB_NOLDO	14C2 16B6 19D7 28D2 29D2
	PP1V8_S3_MEM_NB - @mlb_noldo_lib.MLB_NOLDO	61C2 64C6
	=PP1V8_S3_MEM_NB - @mlb_noldo_lib.MLB_NOLDO	64C4
=PP2V5_S0_NB_CRTDAC	=PP2V5_S0_NB_CRTDAC - @mlb_noldo_lib.MLB_NOLDO	19D4 19D7 64B6
	=PP2V5_S0_NB_VCCA_3GBG - @mlb_noldo_lib.MLB_NOLDO	17D6 19B7 19D7 64B6
	=PP2V5_S0_NB_VCC_TXLVDS - @mlb_noldo_lib.MLB_NOLDO	17D6 19B8 19D7 64B6
	=PP2V5_S0_NB_DISP_PLL - @mlb_noldo_lib.MLB_NOLDO	19D6 64B6
	=PP2V5_S0_NB_VCCA_LVDS - @mlb_noldo_lib.MLB_NOLDO	17C6 19C7 19D1 64B6
	=PP2V5_S0_TMDS - @mlb_noldo_lib.MLB_NOLDO	64B6 68B7
	=PP2V5_S0_NB_VCCSYNC - @mlb_noldo_lib.MLB_NOLDO	17D6 19B6 19D7 64B6
	=PP2V5_S0_REG - @mlb_noldo_lib.MLB_NOLDO	60C2 63B3 64B8
	PP2V5_S0 - @mlb_noldo_lib.MLB_NOLDO	5B2 64B7
	=PP2V5_S0_TMDS - @mlb_noldo_lib.MLB_NOLDO	64B6 68B7
	=PP2V5_S0_REG - @mlb_noldo_lib.MLB_NOLDO	60C2 63B3 64B8
	=PP2V5_S0_NB_VCC_TXLVDS - @mlb_noldo_lib.MLB_NOLDO	17D6 19B8 19D7 64B6
	=PP2V5_S0_NB_VCCSYNC - @mlb_noldo_lib.MLB_NOLDO	17D6 19B6 19D7 64B6
	=PP2V5_S0_NB_VCCA_LVDS - @mlb_noldo_lib.MLB_NOLDO	17C6 19C7 19D1 64B6
	=PP2V5_S0_NB_VCCA_3GBG - @mlb_noldo_lib.MLB_NOLDO	17D6 19B7 19D7 64B6
	=PP2V5_S0_NB_DISP_PLL - @mlb_noldo_lib.MLB_NOLDO	19D6 64B6
=PP3V3_S0_FAN_RT	=PP3V3_S0_FAN_RT - @mlb_noldo_lib.MLB_NOLDO	5D2 51C4 64A6
	=PP3V3_S0_ENET - @mlb_noldo_lib.MLB_NOLDO	36C8 64A6
	=PP3V3_S0_FW - @mlb_noldo_lib.MLB_NOLDO	39C6 64A6
	=PP3V3_S0_2V5S0 - @mlb_noldo_lib.MLB_NOLDO	60C4 64A6
	=PP3V3_S0_1V51V05S0 - @mlb_noldo_lib.MLB_NOLDO	62B1 64A6
	=PP3V3_S0_SMBUS_SMC_BSB - @mlb_noldo_lib.MLB_NOLDO	27B1 64A6
	=PP3V3_S0_RSTBUF - @mlb_noldo_lib.MLB_NOLDO	26B4 64A6
	=PP3V3_S0_SMBUS_SB - @mlb_noldo_lib.MLB_NOLDO	27D8 64A6
	=PP3V3_S0_SMBUS_SMC_0 - @mlb_noldo_lib.MLB_NOLDO	27D5 64A6
	=PP3V3_S0_SMBUS_SMC_MLB - @mlb_noldo_lib.MLB_NOLDO	27C5 64A6
	=PP3V3_S0_ALLSYSPG - @mlb_noldo_lib.MLB_NOLDO	63B1 64A6
	=PP3V3_S0_LCD - @mlb_noldo_lib.MLB_NOLDO	64A6 67B5 67B7 67C6
	=PP3V3_S0_PBATTISENS - @mlb_noldo_lib.MLB_NOLDO	64A6 66B3
	=PP3V3_S0_PDCISENS - @mlb_noldo_lib.MLB_NOLDO	62A5 64A6 66C4
	=PP3V3_S0_CPUPOWER - @mlb_noldo_lib.MLB_NOLDO	48C2 64A6
	=PP3V3_S0_SB - @mlb_noldo_lib.MLB_NOLDO	22B5 25D8 34C8 64B6
	=PP3V3_S0_SB_GPIO - @mlb_noldo_lib.MLB_NOLDO	21C3 21D3 23B2 23D5 64B6
	=PP3V3_S0_SB_VCC3_3 - @mlb_noldo_lib.MLB_NOLDO	24B5 24B5 25B8 25C6 64B6
	=PP3V3_S0_SB_VCC3_3_PCI - @mlb_noldo_lib.MLB_NOLDO	24B3 25A4 64B6
	=PP3V3_S0_SB_VCC3_3_IDE - @mlb_noldo_lib.MLB_NOLDO	24C3 25B4 64B6
	=PP3V3_S0_SB_PCI - @mlb_noldo_lib.MLB_NOLDO	26D1 64B6
	=PP3V3_S0_SB_PM - @mlb_noldo_lib.MLB_NOLDO	26B6 26B8 64B6
	=PP3V3_S0_PATA - @mlb_noldo_lib.MLB_NOLDO	34C2 64A6
	=PP3V3_S0_SMC_LS - @mlb_noldo_lib.MLB_NOLDO	46D3 64A6
	=PP3V3_S0_NB - @mlb_noldo_lib.MLB_NOLDO	14C7 14D6 19C7 20A4 20B4
	=PP3V3_S0_SB_VCCLAN3_3 - @mlb_noldo_lib.MLB_NOLDO	24D3 25D3 64A6
	=PP3V3_S0_SB_3V3_1V5_VCCHDA - @mlb_noldo_lib.MLB_NOLDO	24C3 25C4 64A6
	=PPSPD_S0_MEM - @mlb_noldo_lib.MLB_NOLDO	28A7 29A3 29A7 64A6
	=PP3V3_S0_CK410 - @mlb_noldo_lib.MLB_NOLDO	32C7 32D3 32D8 64A6
	=PP3V3_S0_AIRPORT - @mlb_noldo_lib.MLB_NOLDO	43C3 64A6
	=PP3V3_S0_TPM - @mlb_noldo_lib.MLB_NOLDO	53D4 64A6
	=PP3V3_S0_AUDIO - @mlb_noldo_lib.MLB_NOLDO	54A6 54D7 56D8 57B5 64A6
	=PP3V3_S0_TMDS - @mlb_noldo_lib.MLB_NOLDO	64A6 68B1 68B2 68C8 68C8
	=PP3V3_S0_THRM_SNR - @mlb_noldo_lib.MLB_NOLDO	10C4 49B3 49D3 64A6
	=PP3V3_S0_IMVP6 - @mlb_noldo_lib.MLB_NOLDO	58D8 64A6
	=PP3V3_S0_NB_VCC_HV - @mlb_noldo_lib.MLB_NOLDO	17C6 19B7 19C7 64B6
	=PP3V3_S0_FET - @mlb_noldo_lib.MLB_NOLDO	63C3 64B8
	PP3V3_S0 - @mlb_noldo_lib.MLB_NOLDO	5A2 64B7
	=PPSPD_S0_MEM - @mlb_noldo_lib.MLB_NOLDO	28A7 29A3 29A7 64A6
	=PP3V3_S0_TPM - @mlb_noldo_lib.MLB_NOLDO	53D4 64A6
	=PP3V3_S0_TMDS - @mlb_noldo_lib.MLB_NOLDO	64A6 68B1 68B2 68C8 68C8
	=PP3V3_S0_THRM_SNR - @mlb_noldo_lib.MLB_NOLDO	10C4 49B3 49D3 64A6
	=PP3V3_S0_SMC_LS - @mlb_noldo_lib.MLB_NOLDO	46D3 64A6
	=PP3V3_S0_SMBUS_SMC_MLB - @mlb_noldo_lib.MLB_NOLDO	27C5 64A6
	=PP3V3_S0_SMBUS_SMC_BSB - @mlb_noldo_lib.MLB_NOLDO	27B1 64A6
	=PP3V3_S0_SMBUS_SMC_0 - @mlb_noldo_lib.MLB_NOLDO	27D5 64A6
	=PP3V3_S0_SMBUS_SB - @mlb_noldo_lib.MLB_NOLDO	27D8 64A6
	=PP3V3_S0_SB_VCCLAN3_3 - @mlb_noldo_lib.MLB_NOLDO	24D3 25D3 64A6
	=PP3V3_S0_SB_VCC3_3_PCI - @mlb_noldo_lib.MLB_NOLDO	24B3 25A4 64B6
	=PP3V3_S0_SB_VCC3_3_IDE - @mlb_noldo_lib.MLB_NOLDO	24C3 25B4 64B6
	=PP3V3_S0_SB_VCC3_3 - @mlb_noldo_lib.MLB_NOLDO	24B5 24B5 25B8 25C6 64B6
	=PP3V3_S0_SB_PM - @mlb_noldo_lib.MLB_NOLDO	26B6 26B8 64B6
	=PP3V3_S0_SB_PCI - @mlb_noldo_lib.MLB_NOLDO	26D1 64B6
	=PP3V3_S0_SB_GPIO - @mlb_noldo_lib.MLB_NOLDO	21C3 21D3 23B2 23D5 64B6
	=PP3V3_S0_SB_3V3_1V5_VCCHDA - @mlb_noldo_lib.MLB_NOLDO	24C3 25C4 64A6
	=PP3V3_S0_SB - @mlb_noldo_lib.MLB_NOLDO	22B5 25D8 34C8 64B6
	=PP3V3_S0_RSTBUF - @mlb_noldo_lib.MLB_NOLDO	26B4 64A6
	=PP3V3_S0_PDCISENS - @mlb_noldo_lib.MLB_NOLDO	62A5 64A6 66C4
	=PP3V3_S0_PBATTISENS - @mlb_noldo_lib.MLB_NOLDO	64A6 66B3

	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S0_SATA -	34C2 64A6
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S0_NB_VCC_HV -	17C6 19B7 19C7 64B6
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S0_NB -	14C7 14D6 19C7 20A4 20B4
	@mlb_noldo_lib.MLB_NOLDO	20B4 64A6
	=PP3V3_S0_LCD -	64A6 67B5 67B5 67B7 67C6
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S0_IMVP6 -	58D8 64A6
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S0_FW -	39C6 64A6
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S0_FET -	63C3 64B8
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S0_ENET -	36C8 64A6
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S0_CPUPOWER -	48C2 64A6
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S0_CK410 -	32C7 32D3 32D8 64A6
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S0_AUDIO -	54A6 54D7 56D8 57B5 64A6
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S0_ALLSYSPG -	63B1 64A6
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S0_AIRPORT -	43C3 64A6
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S0_2V5S0 -	60C4 64A6
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S0_1V51V05S0 -	62B1 64A6
	@mlb_noldo_lib.MLB_NOLDO	
=PP3V42_G3H_LPCPLUS	=PP3V42_G3H_LPCPLUS -	5D2 47C6 64D1
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V42_G3H_SMCVREF -	46C8 64D1
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V42_G3H_SMC -	45D2 45D3 45D3 46D1 46D5
	@mlb_noldo_lib.MLB_NOLDO	46D8 48C8 64D1
	=PP3V42_G3H_SB_RTC -	26D6 64D1
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V42_G3H_ACIN -	64D1 65C4 65C8 66A5
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V42_G3H_SMC_CLK -	46A8 64D1
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V42_G3H_LIDSWITCH -	64D1 65A8
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V42_G3H_REG -	63D1 64D3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V42_G3H_SMBUS_SMC_BSA -	27C3 64D1
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V42_G3H_PWRCTL -	63B8 63C8 64D1
	@mlb_noldo_lib.MLB_NOLDO	
	PP3V42_G3H -	5A2 64D1
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V42_G3H_SMC_CLK -	46A8 64D1
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V42_G3H_SMCVREF -	46C8 64D1
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V42_G3H_SMC -	45D2 45D3 45D3 46D1 46D5
	@mlb_noldo_lib.MLB_NOLDO	46D8 48C8 64D1
	=PP3V42_G3H_SMBUS_SMC_BSA -	27C3 64D1
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V42_G3H_SB_RTC -	26D6 64D1
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V42_G3H_REG -	63D1 64D3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V42_G3H_PWRCTL -	63B8 63C8 64D1
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V42_G3H_LIDSWITCH -	64D1 65A8
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V42_G3H_ACIN -	64D1 65C4 65C8 66A5
	@mlb_noldo_lib.MLB_NOLDO	
=PP5V_S0_FAN_RT	=PP5V_S0_FAN_RT -	5D2 51C4 64D3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S0_ISENSECAL -	48A8 64D3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S0_LCD -	64D3 67D7
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S0_TMDS -	64D3 68B7 69C6
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S0_IMVP6 -	58D8 64D3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_1V51V05S0_VCC -	62A8 64D3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S0_NB_TVDAC -	19C4 19C7 64D3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S0_LPCPLUS -	5D2 47C6 64D3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S0_AUDIO_PWR -	55B8 55B8 55D8 64D3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S0_AUDIO -	54A6 55C8 64D3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S0_MEMVTT -	31C6 64D3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S0_FET -	63C3 64D6
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S0_SATA -	35C6 64D3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S0_SB -	25D8 64D3
	@mlb_noldo_lib.MLB_NOLDO	
	PP5V_S0 - @mlb_noldo_lib.MLB_NOLDO	5A2 64D4
	=PP5V_S0_TMDS -	64D3 68B7 69C6
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S0_SB -	25D8 64D3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S0_SATA -	35C6 64D3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S0_NB_TVDAC -	19C4 19C7 64D3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S0_MEMVTT -	31C6 64D3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S0_LPCPLUS -	5D2 47C6 64D3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S0_LCD -	64D3 67D7
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S0_ISENSECAL -	48A8 64D3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S0_IMVP6 -	58D8 64D3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S0_FET -	63C3 64D6
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S0_AUDIO_PWR -	55B8 55B8 55D8 64D3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S0_AUDIO -	54A6 55C8 64D3
	@mlb_noldo_lib.MLB_NOLDO	

	=PP5V_1V51V05S0_VCC -	62A8 64D3
	@mlb_noldo_lib.MLB_NOLDO	
=PP5V_S0_IDE_PATA	=PP5V_S0_IDE_PATA -	34C5
	@mlb_noldo_lib.MLB_NOLDO	
	PP5V_S0_IDE_PATA -	34D3
	@mlb_noldo_lib.MLB_NOLDO	
=PPDCIN_G3H	=PPDCIN_G3H -	64B3 65D3
	@mlb_noldo_lib.MLB_NOLDO	
	=PPVBATT_G3H -	64B3 66B2
	@mlb_noldo_lib.MLB_NOLDO	
	=PPVIN_G3H_P3V42G3H -	63D3 64B1
	@mlb_noldo_lib.MLB_NOLDO	
	PPDCIN_G3H -	64B1
	@mlb_noldo_lib.MLB_NOLDO	
	=PPVIN_G3H_P3V42G3H -	63D3 64B1
	@mlb_noldo_lib.MLB_NOLDO	
	=PPVBATT_G3H -	64B3 66B2
	@mlb_noldo_lib.MLB_NOLDO	
=SMBUS_ATS_SCL	=SMBUS_ATS_SCL -	27D1 67A2
	@mlb_noldo_lib.MLB_NOLDO	
	SMBUS_SMC_RMT_SCL -	27D2
	@mlb_noldo_lib.MLB_NOLDO	
	SMB_RMT_CLK -	27D3 45B5
	@mlb_noldo_lib.MLB_NOLDO	
	SMBUS_SMC_RMT_SCL -	27D2
	@mlb_noldo_lib.MLB_NOLDO	
=SMBUS_ATS_SDA	=SMBUS_ATS_SDA -	27C1 67A2
	@mlb_noldo_lib.MLB_NOLDO	
	SMBUS_SMC_RMT_SDA -	27D2
	@mlb_noldo_lib.MLB_NOLDO	
	SMB_RMT_DATA -	27D3 45B5
	@mlb_noldo_lib.MLB_NOLDO	
	SMBUS_SMC_RMT_SDA -	27D2
	@mlb_noldo_lib.MLB_NOLDO	
=SMB_AIRPORT_CLK	=SMB_AIRPORT_CLK -	27C6 43B4
	@mlb_noldo_lib.MLB_NOLDO	
	=SMB_GEYSER_CLK -	27B6 40C4
	@mlb_noldo_lib.MLB_NOLDO	
	SMBUS_SB_SCL -	27D7
	@mlb_noldo_lib.MLB_NOLDO	
	=I2C_SODIMMB_SCL -	27C6 29A6
	@mlb_noldo_lib.MLB_NOLDO	
	SMB_CLK - @mlb_noldo_lib.MLB_NOLDO	23D5 27D8
	=I2C_SODIMMA_SCL -	27D6 28A6
	@mlb_noldo_lib.MLB_NOLDO	
	SMB_CK410_CLK -	27D6 32B6
	@mlb_noldo_lib.MLB_NOLDO	
	SMB_CLK - @mlb_noldo_lib.MLB_NOLDO	23D5 27D8
	SMB_CK410_CLK -	27D6 32B6
	@mlb_noldo_lib.MLB_NOLDO	
	SMBUS_SB_SCL -	27D7
	@mlb_noldo_lib.MLB_NOLDO	
	=SMB_GEYSER_CLK -	27B6 40C4
	@mlb_noldo_lib.MLB_NOLDO	
	=I2C_SODIMMB_SCL -	27C6 29A6
	@mlb_noldo_lib.MLB_NOLDO	
	=I2C_SODIMMA_SCL -	27D6 28A6
	@mlb_noldo_lib.MLB_NOLDO	
=SMB_AIRPORT_DATA	=SMB_AIRPORT_DATA -	27C6 43B4
	@mlb_noldo_lib.MLB_NOLDO	
	=SMB_GEYSER_DATA -	27B6 40C4
	@mlb_noldo_lib.MLB_NOLDO	
	SMBUS_SB_SDA -	27D7
	@mlb_noldo_lib.MLB_NOLDO	
	=I2C_SODIMMB_SDA -	27C6 29A6
	@mlb_noldo_lib.MLB_NOLDO	
	=I2C_SODIMMA_SDA -	27D6 28A6
	@mlb_noldo_lib.MLB_NOLDO	
=USB2_AIRPORT_N	=USB2_AIRPORT_N -	6B2 43B4
	@mlb_noldo_lib.MLB_NOLDO	
	USB_H_N - @mlb_noldo_lib.MLB_NOLDO	6B1 22C2
	USB2_AIRPORT_N -	6B2
	@mlb_noldo_lib.MLB_NOLDO	
=USB2_AIRPORT_P	=USB2_AIRPORT_P -	6B2 43B4
	@mlb_noldo_lib.MLB_NOLDO	
	USB_H_P - @mlb_noldo_lib.MLB_NOLDO	6B1 22C2
	USB2_AIRPORT_P -	6B2
	@mlb_noldo_lib.MLB_NOLDO	
=USB2_CAMERA_N	=USB2_CAMERA_N -	6C2 67A4
	@mlb_noldo_lib.MLB_NOLDO	
	USB_D_N - @mlb_noldo_lib.MLB_NOLDO	6C1 22C2
	USB2_CAMERA_N -	6C2
	@mlb_noldo_lib.MLB_NOLDO	
=USB2_CAMERA_P	=USB2_CAMERA_P -	6C2 67B4
	@mlb_noldo_lib.MLB_NOLDO	
	USB_D_P - @mlb_noldo_lib.MLB_NOLDO	6C1 22C2
	USB2_CAMERA_P -	6C2
	@mlb_noldo_lib.MLB_NOLDO	
ACIN_1V20_REF	ACIN_1V20_REF -	65C4
	@mlb_noldo_lib.MLB_NOLDO	
ACIN_DIV	ACIN_DIV - @mlb_noldo_lib.MLB_NOLDO	65C4
ACIN_ENABLE_GATE	ACIN_ENABLE_GATE -	5C1 65C3
	@mlb_noldo_lib.MLB_NOLDO	
ACIN_ENABLE_L	ACIN_ENABLE_L -	65C2
	@mlb_noldo_lib.MLB_NOLDO	
ACIN_ENABLE_L_DIV	ACIN_ENABLE_L_DIV -	65C1
	@mlb_noldo_lib.MLB_NOLDO	
ACZ_BITCLK	ACZ_BITCLK -	5C1 21C7 54D7
	@mlb_noldo_lib.MLB_NOLDO	
ACZ_RST_L	ACZ_RST_L -	5C1 21C7 54C7 57C3
	@mlb_noldo_lib.MLB_NOLDO	
ACZ_SDATAIN<0>	ACZ_SDATAIN<0> -	5D1 21C7 54D7
	@mlb_noldo_lib.MLB_NOLDO	
ACZ_SDATAOUT	ACZ_SDATAOUT -	5D1 21C7 54D7
	@mlb_noldo_lib.MLB_NOLDO	
ACZ_SYNC	ACZ_SYNC - @mlb_noldo_lib.MLB_NOLDO	5C1 21C7 54D7
ADAPTER_SENSE	ADAPTER_SENSE -	65C7
	@mlb_noldo_lib.MLB_NOLDO	
AIRPORT_CLK100M_PCIE_N	AIRPORT_CLK100M_PCIE_N -	33B2 33C4 43C6
	@mlb_noldo_lib.MLB_NOLDO	

AIRPORT_CLK100M_PCIE_P	AIRPORT_CLK100M_PCIE_P -	33B2 33D4 43C6
	@mlb_noldo_lib.MLB_NOLDO	
AIRPORT_RST_L	AIRPORT_RST_L -	26B1 43C4
	@mlb_noldo_lib.MLB_NOLDO	
ALL_SYS_PWRGD	ALL_SYS_PWRGD -	5B2 26A5 45D8 63B1
	@mlb_noldo_lib.MLB_NOLDO	
ALS_GAIN	ALS_GAIN - @mlb_noldo_lib.MLB_NOLDO	45B5 46C6
ALS_LEFT	ALS_LEFT - @mlb_noldo_lib.MLB_NOLDO	5A7 45A8 46C3
ALS_RIGHT	ALS_RIGHT -	45A8 46C3
	@mlb_noldo_lib.MLB_NOLDO	
AUDIO_SHIELD_PLANE	AUDIO_SHIELD_PLANE -	56C3
	@mlb_noldo_lib.MLB_NOLDO	
AUD_4V5_SHDN_L	AUD_4V5_SHDN_L -	54A5
	@mlb_noldo_lib.MLB_NOLDO	
AUD_ALC_COUT	AUD_ALC_COUT -	54B5
	@mlb_noldo_lib.MLB_NOLDO	
AUD_ANALOG_FILT_1	AUD_ANALOG_FILT_1 -	54C4
	@mlb_noldo_lib.MLB_NOLDO	
AUD_ANALOG_FILT_2	AUD_ANALOG_FILT_2 -	54C4
	@mlb_noldo_lib.MLB_NOLDO	
AUD_BI_PORT_A_L	AUD_BI_PORT_A_L -	54C1 57C3
	@mlb_noldo_lib.MLB_NOLDO	
AUD_BI_PORT_A_R	AUD_BI_PORT_A_R -	54C1 57B3
	@mlb_noldo_lib.MLB_NOLDO	
AUD_BI_PORT_B_L	AUD_BI_PORT_B_L -	54C1 57A6
	@mlb_noldo_lib.MLB_NOLDO	
	AUD_BI_PORT_B_R -	54C1 57A6
	@mlb_noldo_lib.MLB_NOLDO	
AUD_BI_PORT_C_L	AUD_BI_PORT_C_L -	54C7 55B8
	@mlb_noldo_lib.MLB_NOLDO	
AUD_BI_PORT_C_R	AUD_BI_PORT_C_R -	54C7 55C8
	@mlb_noldo_lib.MLB_NOLDO	
AUD_BI_PORT_D_L	AUD_BI_PORT_D_L -	54C7 57A5
	@mlb_noldo_lib.MLB_NOLDO	
AUD_BI_PORT_D_R	AUD_BI_PORT_D_R -	54C7 55A8
	@mlb_noldo_lib.MLB_NOLDO	
AUD_BI_PORT_E_L	AUD_BI_PORT_E_L -	54C1 57A5
	@mlb_noldo_lib.MLB_NOLDO	
AUD_BI_PORT_E_R	AUD_BI_PORT_E_R -	54C1 57A5
	@mlb_noldo_lib.MLB_NOLDO	
AUD_BI_PORT_F_L	AUD_BI_PORT_F_L -	54C1 57B3
	@mlb_noldo_lib.MLB_NOLDO	
AUD_BI_PORT_F_R	AUD_BI_PORT_F_R -	54C1 57A3
	@mlb_noldo_lib.MLB_NOLDO	
AUD_BYPASS	AUD_BYPASS -	54C4
	@mlb_noldo_lib.MLB_NOLDO	
AUD_CONNJ1_RING	AUD_CONNJ1_RING -	56C7
	@mlb_noldo_lib.MLB_NOLDO	
AUD_CONNJ1_RING_F	AUD_CONNJ1_RING_F -	56C6
	@mlb_noldo_lib.MLB_NOLDO	
AUD_CONNJ1_SLEEVE	AUD_CONNJ1_SLEEVE -	56D7
	@mlb_noldo_lib.MLB_NOLDO	
AUD_CONNJ1_SLEEVEDET	AUD_CONNJ1_SLEEVEDET -	56C7
	@mlb_noldo_lib.MLB_NOLDO	
AUD_CONNJ1_SLEEVEDET_F	AUD_CONNJ1_SLEEVEDET_F -	56C6
	@mlb_noldo_lib.MLB_NOLDO	
AUD_CONNJ1_SLEEVE_F	AUD_CONNJ1_SLEEVE_F -	56D5
	@mlb_noldo_lib.MLB_NOLDO	
AUD_CONNJ1_TIP	AUD_CONNJ1_TIP -	56C7
	@mlb_noldo_lib.MLB_NOLDO	
AUD_CONNJ1_TIPDET	AUD_CONNJ1_TIPDET -	56D7
	@mlb_noldo_lib.MLB_NOLDO	
AUD_CONNJ1_TIPDET_F	AUD_CONNJ1_TIPDET_F -	56D6
	@mlb_noldo_lib.MLB_NOLDO	
AUD_CONNJ1_TIP_F	AUD_CONNJ1_TIP_F -	56C6
	@mlb_noldo_lib.MLB_NOLDO	
AUD_CONNJ2_RING	AUD_CONNJ2_RING -	56B7
	@mlb_noldo_lib.MLB_NOLDO	
AUD_CONNJ2_RING_F	AUD_CONNJ2_RING_F -	56B6
	@mlb_noldo_lib.MLB_NOLDO	
AUD_CONNJ2_SLEEVE	AUD_CONNJ2_SLEEVE -	56B7
	@mlb_noldo_lib.MLB_NOLDO	
AUD_CONNJ2_SLEEVEDET	AUD_CONNJ2_SLEEVEDET -	56A7
	@mlb_noldo_lib.MLB_NOLDO	
AUD_CONNJ2_SLEEVEDET_F	AUD_CONNJ2_SLEEVEDET_F -	56A6
	@mlb_noldo_lib.MLB_NOLDO	
AUD_CONNJ2_SLEEVE_F	AUD_CONNJ2_SLEEVE_F -	56B6
	@mlb_noldo_lib.MLB_NOLDO	
AUD_CONNJ2_TIP	AUD_CONNJ2_TIP -	56B7
	@mlb_noldo_lib.MLB_NOLDO	
AUD_CONNJ2_TIPDET	AUD_CONNJ2_TIPDET -	56B7
	@mlb_noldo_lib.MLB_NOLDO	
AUD_CONNJ2_TIPDET_F	AUD_CONNJ2_TIPDET_F -	56B6
	@mlb_noldo_lib.MLB_NOLDO	
AUD_CONNJ2_TIP_F	AUD_CONNJ2_TIP_F -	56B6
	@mlb_noldo_lib.MLB_NOLDO	
AUD_GPIO_0	AUD_GPIO_0 -	54B8 55A8
	@mlb_noldo_lib.MLB_NOLDO	
AUD_GPIO_0_R	AUD_GPIO_0_R -	54B7 54C7
	@mlb_noldo_lib.MLB_NOLDO	
AUD_GPIO_1	AUD_GPIO_1 -	54B8 57C3
	@mlb_noldo_lib.MLB_NOLDO	
AUD_GPIO_1_R	AUD_GPIO_1_R -	54A7 54C7
	@mlb_noldo_lib.MLB_NOLDO	
AUD_GPIO_2	AUD_GPIO_2 -	54C7
	@mlb_noldo_lib.MLB_NOLDO	
AUD_INJACK_INSERT_L	AUD_INJACK_INSERT_L -	57C7
	@mlb_noldo_lib.MLB_NOLDO	
AUD_J1_COM	AUD_J1_COM -	56C4
	@mlb_noldo_lib.MLB_NOLDO	
AUD_J1_DET_RC	AUD_J1_DET_RC -	57D7
	@mlb_noldo_lib.MLB_NOLDO	
AUD_J1_SLEEVEDET_INV	AUD_J1_SLEEVEDET_INV -	57C7
	@mlb_noldo_lib.MLB_NOLDO	
AUD_J1_SLEEVEDET_R	AUD_J1_SLEEVEDET_R -	56C3 57C6 57C8
	@mlb_noldo_lib.MLB_NOLDO	
AUD_J1_TIPDET_R	AUD_J1_TIPDET_R -	56C3 57D8
	@mlb_noldo_lib.MLB_NOLDO	
AUD_J2_COM	AUD_J2_COM -	56B4
	@mlb_noldo_lib.MLB_NOLDO	
AUD_J2_DET_RC	AUD_J2_DET_RC -	57B7
	@mlb_noldo_lib.MLB_NOLDO	
AUD_J2_OPT_OUT	AUD_J2_OPT_OUT -	56B7
	@mlb_noldo_lib.MLB_NOLDO	
AUD_J2_SLEEVEDET_R	AUD_J2_SLEEVEDET_R -	56A4 57B8
	@mlb_noldo_lib.MLB_NOLDO	
AUD_J2_TIPDET_R	AUD_J2_TIPDET_R -	56A4 57B8
	@mlb_noldo_lib.MLB_NOLDO	
AUD_JDREF	AUD_JDREF -	54C4
	@mlb_noldo_lib.MLB_NOLDO	
AUD_OUTJACK_INSERT_L	AUD_OUTJACK_INSERT_L -	57D7
	@mlb_noldo_lib.MLB_NOLDO	
AUD_PORTA_DET_L	AUD_PORTA_DET_L -	57D5
	@mlb_noldo_lib.MLB_NOLDO	

AUD_PORTA_L	AUD_PORTA_L -	56C3 57D1
	@mlb_noldo_lib.MLB_NOLDO	
AUD_PORTA_L_R	AUD_PORTA_L_R -	57B1 57D3
	@mlb_noldo_lib.MLB_NOLDO	
AUD_PORTA_R	AUD_PORTA_R -	56C3 57C1
	@mlb_noldo_lib.MLB_NOLDO	
AUD_PORTA_R_R	AUD_PORTA_R_R -	57B1 57C3
	@mlb_noldo_lib.MLB_NOLDO	
AUD_PORTE_DET_L	AUD_PORTE_DET_L -	57D5
	@mlb_noldo_lib.MLB_NOLDO	
AUD_PORTF_L	AUD_PORTF_L -	56B4 57B1
	@mlb_noldo_lib.MLB_NOLDO	
AUD_PORTF_L_R	AUD_PORTF_L_R -	57B2
	@mlb_noldo_lib.MLB_NOLDO	
AUD_PORTF_R	AUD_PORTF_R -	56B4 57A1
	@mlb_noldo_lib.MLB_NOLDO	
AUD_PORTF_R_R	AUD_PORTF_R_R -	57A2
	@mlb_noldo_lib.MLB_NOLDO	
AUD_PORTG_DET_L	AUD_PORTG_DET_L -	57C5
	@mlb_noldo_lib.MLB_NOLDO	
AUD_SENSE_A	AUD_SENSE_A -	54C1 57C5 57D8
	@mlb_noldo_lib.MLB_NOLDO	
AUD_SENSE_B	AUD_SENSE_B -	54C1 57C4 57C8 57D8
	@mlb_noldo_lib.MLB_NOLDO	
AUD_SPDIF_IN	AUD_SPDIF_IN -	54C1 56B3
	@mlb_noldo_lib.MLB_NOLDO	
AUD_SPDIF_OUT	AUD_SPDIF_OUT -	54D1 56D3
	@mlb_noldo_lib.MLB_NOLDO	
AUD_SPDIF_OUT_R	AUD_SPDIF_OUT_R -	54D4
	@mlb_noldo_lib.MLB_NOLDO	
AUD_SPKRAMP_INL	AUD_SPKRAMP_INL -	55B6
	@mlb_noldo_lib.MLB_NOLDO	
AUD_SPKRAMP_INL_L	AUD_SPKRAMP_INL_L -	55B7
	@mlb_noldo_lib.MLB_NOLDO	
AUD_SPKRAMP_INR	AUD_SPKRAMP_INR -	55C6
	@mlb_noldo_lib.MLB_NOLDO	
AUD_SPKRAMP_INR_L	AUD_SPKRAMP_INR_L -	55C7
	@mlb_noldo_lib.MLB_NOLDO	
AUD_SPKRAMP_INSUB	AUD_SPKRAMP_INSUB -	55A6
	@mlb_noldo_lib.MLB_NOLDO	
AUD_SPKRAMP_INSUB_L	AUD_SPKRAMP_INSUB_L -	55A7
	@mlb_noldo_lib.MLB_NOLDO	
AUD_SPKRAMP_SHUTDOWN_L	AUD_SPKRAMP_SHUTDOWN_L -	55A6 55B8 55C8
	@mlb_noldo_lib.MLB_NOLDO	
AUD_VREF_FILT	AUD_VREF_FILT -	54C4
	@mlb_noldo_lib.MLB_NOLDO	
AUD_VREF_PORT_B	AUD_VREF_PORT_B -	54C1 57A6
	@mlb_noldo_lib.MLB_NOLDO	
BAL_IN_COM	BAL_IN_COM -	54C7 57A3
	@mlb_noldo_lib.MLB_NOLDO	
BAL_IN_L	BAL_IN_L - @mlb_noldo_lib.MLB_NOLDO	54C7 57A3
BAL_IN_R	BAL_IN_R - @mlb_noldo_lib.MLB_NOLDO	54C7 57A3
BATT_ENABLE_L	BATT_ENABLE_L -	66A4
	@mlb_noldo_lib.MLB_NOLDO	
BATT_FET_DRAIN	BATT_FET_DRAIN -	66A5
	@mlb_noldo_lib.MLB_NOLDO	
BATT_FET_GATE	BATT_FET_GATE -	66A4
	@mlb_noldo_lib.MLB_NOLDO	
BATT_IN	BATT_IN - @mlb_noldo_lib.MLB_NOLDO	5D1
BATT_ISENSE	BATT_ISENSE -	66B2
	@mlb_noldo_lib.MLB_NOLDO	
BATT_NEG	BATT_NEG - @mlb_noldo_lib.MLB_NOLDO	5D1 65A6
BATT_POS	BATT_POS - @mlb_noldo_lib.MLB_NOLDO	5D1 65A6
BATT_POS_F	BATT_POS_F -	65A2 66B2
	@mlb_noldo_lib.MLB_NOLDO	
BATT_RC	BATT_RC - @mlb_noldo_lib.MLB_NOLDO	66A5
BEEP	BEEP - @mlb_noldo_lib.MLB_NOLDO	54C6
BIOS_REC	BIOS_REC - @mlb_noldo_lib.MLB_NOLDO	23A6 23C5
BKLIGHT_CTL	BKLIGHT_CTL -	67C4
	@mlb_noldo_lib.MLB_NOLDO	
BOOT_LPC_SPI_L	BOOT_LPC_SPI_L -	5C2 22B3 45C8 47C6
	@mlb_noldo_lib.MLB_NOLDO	
BYPASS_R_DRV	BYPASS_R_DRV -	66A3
	@mlb_noldo_lib.MLB_NOLDO	
BYPASS_R_GATE	BYPASS_R_GATE -	66A3
	@mlb_noldo_lib.MLB_NOLDO	
CHASSIS_AUDIO_JACK_I SOL	CHASSIS_AUDIO_JACK_ISOL - @mlb_noldo_lib.MLB_NOLDO	56A3 56A8 56B1 56B6 56B6 56C1 56C1 56C8
CHGR_ACLIM	CHGR_ACLIM -	66C6
	@mlb_noldo_lib.MLB_NOLDO	
CHGR_ACPRN	CHGR_ACPRN -	66B6
	@mlb_noldo_lib.MLB_NOLDO	
CHGR_ACSET	CHGR_ACSET -	66C6
	@mlb_noldo_lib.MLB_NOLDO	
CHGR_ACSET_RC	CHGR_ACSET_RC -	66C8
	@mlb_noldo_lib.MLB_NOLDO	
CHGR_BGATE	CHGR_BGATE -	66C5
	@mlb_noldo_lib.MLB_NOLDO	
CHGR_BOOT	CHGR_BOOT -	66C5
	@mlb_noldo_lib.MLB_NOLDO	
CHGR_BOOT_RC	CHGR_BOOT_RC -	66C4
	@mlb_noldo_lib.MLB_NOLDO	
CHGR_CHLIM	CHGR_CHLIM -	66B6
	@mlb_noldo_lib.MLB_NOLDO	
CHGR_CSIN	CHGR_CSIN -	66C5
	@mlb_noldo_lib.MLB_NOLDO	
CHGR_CSON	CHGR_CSON -	66C6
	@mlb_noldo_lib.MLB_NOLDO	
CHGR_CSOP	CHGR_CSOP -	66C6
	@mlb_noldo_lib.MLB_NOLDO	
CHGR_DCIN	CHGR_DCIN -	66C5
	@mlb_noldo_lib.MLB_NOLDO	
CHGR_DCPRN	CHGR_DCPRN -	66B5
	@mlb_noldo_lib.MLB_NOLDO	
CHGR_DCSET	CHGR_DCSET -	66B5
	@mlb_noldo_lib.MLB_NOLDO	
CHGR_EN	CHGR_EN - @mlb_noldo_lib.MLB_NOLDO	66B5
CHGR_EN_L	CHGR_EN_L -	66A6
	@mlb_noldo_lib.MLB_NOLDO	
CHGR_ICM	CHGR_ICM - @mlb_noldo_lib.MLB_NOLDO	66C6
CHGR_ICM_R	CHGR_ICM_R -	66C6
	@mlb_noldo_lib.MLB_NOLDO	
CHGR_ICOMP	CHGR_ICOMP -	66C6
	@mlb_noldo_lib.MLB_NOLDO	
CHGR_ICOMP_RC	CHGR_ICOMP_RC -	66C7
	@mlb_noldo_lib.MLB_NOLDO	
CHGR_LGATE	CHGR_LGATE -	66C5
	@mlb_noldo_lib.MLB_NOLDO	
CHGR_PHASE	CHGR_PHASE -	66C5
	@mlb_noldo_lib.MLB_NOLDO	
CHGR_PHASE_RC	CHGR_PHASE_RC -	66B4
	@mlb_noldo_lib.MLB_NOLDO	
CHGR_SGATE	CHGR_SGATE -	66C5
	@mlb_noldo_lib.MLB_NOLDO	

CHGR_UGATE	CHGR_UGATE - @mlb_noldo_lib.MLB_NOLDO	66C5
CHGR_VADJ	CHGR_VADJ - @mlb_noldo_lib.MLB_NOLDO	66B6 66C6
CHGR_VCOMP	CHGR_VCOMP - @mlb_noldo_lib.MLB_NOLDO	66C6
CHGR_VCOMP_CC	CHGR_VCOMP_CC - @mlb_noldo_lib.MLB_NOLDO	66C7
CHGR_VCOMP_RC	CHGR_VCOMP_RC - @mlb_noldo_lib.MLB_NOLDO	66C7
CHGR_VDD	CHGR_VDD - @mlb_noldo_lib.MLB_NOLDO	66B6 66D6
CHGR_VDDP	CHGR_VDDP - @mlb_noldo_lib.MLB_NOLDO	66C5
CHGR_VREF	CHGR_VREF - @mlb_noldo_lib.MLB_NOLDO	66B6
CK410_CLK14P3M_TIMER	CK410_CLK14P3M_TIMER - @mlb_noldo_lib.MLB_NOLDO	32A4 33B8
CK410_CPU0_N	CK410_CPU0_N - @mlb_noldo_lib.MLB_NOLDO	5C7 32C4 33D5
CK410_CPU0_P	CK410_CPU0_P - @mlb_noldo_lib.MLB_NOLDO	5C7 32C4 33D5
CK410_CPU1_N	CK410_CPU1_N - @mlb_noldo_lib.MLB_NOLDO	5C7 32C4 33D5
CK410_CPU1_P	CK410_CPU1_P - @mlb_noldo_lib.MLB_NOLDO	5C7 32C4 33D5
CK410_CPU2_ITP_SRC10_N	CK410_CPU2_ITP_SRC10_N - @mlb_noldo_lib.MLB_NOLDO	5C7 32C4 33D5
CK410_CPU2_ITP_SRC10_P	CK410_CPU2_ITP_SRC10_P - @mlb_noldo_lib.MLB_NOLDO	5C7 32C4 33D5
CK410_DOT96_27M_N	CK410_DOT96_27M_N - @mlb_noldo_lib.MLB_NOLDO	5C7 32A4 33B5
CK410_DOT96_27M_P	CK410_DOT96_27M_P - @mlb_noldo_lib.MLB_NOLDO	5C7 32A4 33B5
CK410_FSB_TEST_MODE	CK410_FSB_TEST_MODE - @mlb_noldo_lib.MLB_NOLDO	32C6 33B8
CK410_IREF	CK410_IREF - @mlb_noldo_lib.MLB_NOLDO	32B6
CK410_LVDS_N	CK410_LVDS_N - @mlb_noldo_lib.MLB_NOLDO	5C7 32B4 33A5
CK410_LVDS_P	CK410_LVDS_P - @mlb_noldo_lib.MLB_NOLDO	5C7 32B4 33A5
CK410_PCI1_CLK	CK410_PCI1_CLK - @mlb_noldo_lib.MLB_NOLDO	32B6 33D8
CK410_PCI2_CLK	CK410_PCI2_CLK - @mlb_noldo_lib.MLB_NOLDO	32B6 33D8
CK410_PCI3_CLK	CK410_PCI3_CLK - @mlb_noldo_lib.MLB_NOLDO	32B6 33D8
CK410_PCI4_CLK	CK410_PCI4_CLK - @mlb_noldo_lib.MLB_NOLDO	32B6
CK410_PCI4_CLK_SPN	CK410_PCI4_CLK_SPN - @mlb_noldo_lib.MLB_NOLDO	5C7
CK410_PCI5_FCTSEL1	CK410_PCI5_FCTSEL1 - @mlb_noldo_lib.MLB_NOLDO	32B6 33A8
CK410_PCIF0_CLK	CK410_PCIF0_CLK - @mlb_noldo_lib.MLB_NOLDO	32B7 33D8
CK410_PCIF1_CLK	CK410_PCIF1_CLK - @mlb_noldo_lib.MLB_NOLDO	5C7 32B6 33D8
CK410_PD_VTT_PWRGD_L	CK410_PD_VTT_PWRGD_L - @mlb_noldo_lib.MLB_NOLDO	26A8 32A4
	VR_PWRGD_CK410_L - @mlb_noldo_lib.MLB_NOLDO	26A7 58C7
CK410_REF1_FCTSEL0	CK410_REF1_FCTSEL0 - @mlb_noldo_lib.MLB_NOLDO	32A4 33A8
CK410_SRC1_N	CK410_SRC1_N - @mlb_noldo_lib.MLB_NOLDO	6B4 32B4
	CK410_SRC1_N_SPN - @mlb_noldo_lib.MLB_NOLDO	5C7 6B3
CK410_SRC1_P	CK410_SRC1_P - @mlb_noldo_lib.MLB_NOLDO	6B4 32B4
	CK410_SRC1_P_SPN - @mlb_noldo_lib.MLB_NOLDO	5C7 6B3
CK410_SRC2_N	CK410_SRC2_N - @mlb_noldo_lib.MLB_NOLDO	5C7 32B4 33C5
CK410_SRC2_P	CK410_SRC2_P - @mlb_noldo_lib.MLB_NOLDO	5C7 32B4 33C5
CK410_SRC3_N	CK410_SRC3_N - @mlb_noldo_lib.MLB_NOLDO	6B4 32B4
	CK410_SRC3_N_SPN - @mlb_noldo_lib.MLB_NOLDO	5C7 6B3
CK410_SRC3_P	CK410_SRC3_P - @mlb_noldo_lib.MLB_NOLDO	6B4 32B4
	CK410_SRC3_P_SPN - @mlb_noldo_lib.MLB_NOLDO	5C7 6B3
CK410_SRC4_N	CK410_SRC4_N - @mlb_noldo_lib.MLB_NOLDO	5C7 32B4 33B5
CK410_SRC4_P	CK410_SRC4_P - @mlb_noldo_lib.MLB_NOLDO	5C7 32B4 33B5
CK410_SRC5_N	CK410_SRC5_N - @mlb_noldo_lib.MLB_NOLDO	5C7 32B4 33C5
CK410_SRC5_P	CK410_SRC5_P - @mlb_noldo_lib.MLB_NOLDO	5C7 32B4 33C5
CK410_SRC6_N	CK410_SRC6_N - @mlb_noldo_lib.MLB_NOLDO	5C7 32B4 33C5
CK410_SRC6_P	CK410_SRC6_P - @mlb_noldo_lib.MLB_NOLDO	5C7 32B4 33D5
CK410_SRC7_N	CK410_SRC7_N - @mlb_noldo_lib.MLB_NOLDO	6B4 32B4
	CK410_SRC7_N_SPN - @mlb_noldo_lib.MLB_NOLDO	5C7 6B3
CK410_SRC7_P	CK410_SRC7_P - @mlb_noldo_lib.MLB_NOLDO	6B4 32B4
	CK410_SRC7_P_SPN - @mlb_noldo_lib.MLB_NOLDO	5C7 6B3
CK410_SRC8_N	CK410_SRC8_N - @mlb_noldo_lib.MLB_NOLDO	5B7 32A4 33C5
CK410_SRC8_P	CK410_SRC8_P - @mlb_noldo_lib.MLB_NOLDO	5B7 32A4 33C5
CK410_SRC_CLKREQ1_L	CK410_SRC_CLKREQ1_L - @mlb_noldo_lib.MLB_NOLDO	6B4 32B4
	CK410_SRC_CLKREQ1_L_SPN - @mlb_noldo_lib.MLB_NOLDO	5B7 6B3
CK410_SRC_CLKREQ3_L	CK410_SRC_CLKREQ3_L - @mlb_noldo_lib.MLB_NOLDO	6B4 32B4
	CK410_SRC_CLKREQ3_L_SPN - @mlb_noldo_lib.MLB_NOLDO	5B7 6B3
CK410_SRC_CLKREQ6_L	CK410_SRC_CLKREQ6_L - @mlb_noldo_lib.MLB_NOLDO	32B4 43C6
CK410_SRC_CLKREQ8_L	CK410_SRC_CLKREQ8_L - @mlb_noldo_lib.MLB_NOLDO	5B7 32A4 33A5
CK410_USB48_FSA	CK410_USB48_FSA - @mlb_noldo_lib.MLB_NOLDO	32A4 33C8
CK410_XTAL_IN	CK410_XTAL_IN - @mlb_noldo_lib.MLB_NOLDO	32C6
CK410_XTAL_OUT	CK410_XTAL_OUT - @mlb_noldo_lib.MLB_NOLDO	32C6

	@mlb_noldo_lib.MLB_NOLDO	
CLK_NB_OE_L	CLK_NB_OE_L - @mlb_noldo_lib.MLB_NOLDO	14B6 32B4
CONN_GEYSER_ONOFF_FL	CONN_GEYSER_ONOFF_FLTR_L - @mlb_noldo_lib.MLB_NOLDO	40C6
TR_L		
CONN_GEYSER_USB_N	CONN_GEYSER_USB_N - @mlb_noldo_lib.MLB_NOLDO	40C6
CONN_GEYSER_USB_P	CONN_GEYSER_USB_P - @mlb_noldo_lib.MLB_NOLDO	40C6
CPUVCORE_ISENSE_CAL	CPUVCORE_ISENSE_CAL - @mlb_noldo_lib.MLB_NOLDO	48A5
CPU_A20M_L	CPU_A20M_L - @mlb_noldo_lib.MLB_NOLDO	7C8 21C4
CPU_BSEL<0>	CPU_BSEL<0> - @mlb_noldo_lib.MLB_NOLDO	7B4 33C6
CPU_BSEL<1>	CPU_BSEL<1> - @mlb_noldo_lib.MLB_NOLDO	7B4 33B6
CPU_BSEL<2>	CPU_BSEL<2> - @mlb_noldo_lib.MLB_NOLDO	7B4 33B6
CPU_BSEL_R<0>	CPU_BSEL_R<0> - @mlb_noldo_lib.MLB_NOLDO	33C7
CPU_BSEL_R<1>	CPU_BSEL_R<1> - @mlb_noldo_lib.MLB_NOLDO	33B7
CPU_BSEL_R<2>	CPU_BSEL_R<2> - @mlb_noldo_lib.MLB_NOLDO	33B7
CPU_COMP<0>	CPU_COMP<0> - @mlb_noldo_lib.MLB_NOLDO	7B3
CPU_COMP<1>	CPU_COMP<1> - @mlb_noldo_lib.MLB_NOLDO	7B3
CPU_COMP<2>	CPU_COMP<2> - @mlb_noldo_lib.MLB_NOLDO	7B3
CPU_COMP<3>	CPU_COMP<3> - @mlb_noldo_lib.MLB_NOLDO	7B3
CPU_DPRSTP_L	CPU_DPRSTP_L - @mlb_noldo_lib.MLB_NOLDO	7B3 21C4 58C7
CPU_DPSLP_L	CPU_DPSLP_L - @mlb_noldo_lib.MLB_NOLDO	7B3 21C4
CPU_FERR_L	CPU_FERR_L - @mlb_noldo_lib.MLB_NOLDO	7C8 21C2
CPU_GTLREF	CPU_GTLREF - @mlb_noldo_lib.MLB_NOLDO	7B4
CPU_IGNNE_L	CPU_IGNNE_L - @mlb_noldo_lib.MLB_NOLDO	7C8 21C4
CPU_INIT_L	CPU_INIT_L - @mlb_noldo_lib.MLB_NOLDO	7D6 21C4
CPU_INTR	CPU_INTR - @mlb_noldo_lib.MLB_NOLDO	7C8 21C4
CPU_ISENSE_OUT_R	CPU_ISENSE_OUT_R - @mlb_noldo_lib.MLB_NOLDO	48C3
CPU_ISENSE_R_N	CPU_ISENSE_R_N - @mlb_noldo_lib.MLB_NOLDO	48C3
CPU_ISENSE_R_P	CPU_ISENSE_R_P - @mlb_noldo_lib.MLB_NOLDO	48C3
CPU_NMI	CPU_NMI - @mlb_noldo_lib.MLB_NOLDO	7C8 21C4
CPU_PROCHOT_L	CPU_PROCHOT_L - @mlb_noldo_lib.MLB_NOLDO	7C6 46B5 46C2 58C8
CPU_PSI_L	CPU_PSI_L - @mlb_noldo_lib.MLB_NOLDO	7A3 58C7
CPU_PWRGD	CPU_PWRGD - @mlb_noldo_lib.MLB_NOLDO	7B3 21C4
CPU_RCIN_L	CPU_RCIN_L - @mlb_noldo_lib.MLB_NOLDO	21C4
CPU_SMI_L	CPU_SMI_L - @mlb_noldo_lib.MLB_NOLDO	7C8 21C4
CPU_STPCLK_L	CPU_STPCLK_L - @mlb_noldo_lib.MLB_NOLDO	7C8 21C4
CPU_TEST1	CPU_TEST1 - @mlb_noldo_lib.MLB_NOLDO	7B4
CPU_TEST2	CPU_TEST2 - @mlb_noldo_lib.MLB_NOLDO	7B4
CPU_THERMAL_SCREW_DOWN	CPU_THERMAL_SCREW_DOWN - @mlb_noldo_lib.MLB_NOLDO	6A8
CPU_THERMAL_SCREW_RIGHT	CPU_THERMAL_SCREW_RIGHT - @mlb_noldo_lib.MLB_NOLDO	6A7
CPU_THERMAL_SCREW_UP	CPU_THERMAL_SCREW_UP - @mlb_noldo_lib.MLB_NOLDO	6A7
CPU_THERMD_N	CPU_THERMD_N - @mlb_noldo_lib.MLB_NOLDO	7C6 10B6
CPU_THERMD_P	CPU_THERMD_P - @mlb_noldo_lib.MLB_NOLDO	7C6 10B6
CPU_THERMTRIP_R	CPU_THERMTRIP_R - @mlb_noldo_lib.MLB_NOLDO	21C2
CPU_VCCSENSE_N	CPU_VCCSENSE_N - @mlb_noldo_lib.MLB_NOLDO	8B6 58A4 58A5
CPU_VCCSENSE_P	CPU_VCCSENSE_P - @mlb_noldo_lib.MLB_NOLDO	8B6 58A4 58A5
CPU_VID<0>	CPU_VID<0> - @mlb_noldo_lib.MLB_NOLDO	8B7 9C3
CPU_VID<1>	CPU_VID<1> - @mlb_noldo_lib.MLB_NOLDO	8B7 9C3
CPU_VID<2>	CPU_VID<2> - @mlb_noldo_lib.MLB_NOLDO	8B7 9C3
CPU_VID<3>	CPU_VID<3> - @mlb_noldo_lib.MLB_NOLDO	8B7 9C3
CPU_VID<4>	CPU_VID<4> - @mlb_noldo_lib.MLB_NOLDO	8B7 9C3
CPU_VID<5>	CPU_VID<5> - @mlb_noldo_lib.MLB_NOLDO	8B7 9D3
CPU_VID<6>	CPU_VID<6> - @mlb_noldo_lib.MLB_NOLDO	8B7 9D3
CPU_VID_R<0>	CPU_VID_R<0> - @mlb_noldo_lib.MLB_NOLDO	9C2 58C7
CPU_VID_R<0..6>	CPU_VID_R<0..6> - @mlb_noldo_lib.MLB_NOLDO	58A4
CPU_VID_R<1>	CPU_VID_R<1> - @mlb_noldo_lib.MLB_NOLDO	9C2 58C7
CPU_VID_R<2>	CPU_VID_R<2> - @mlb_noldo_lib.MLB_NOLDO	9C2 58C7
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CPU_VID_R<5>	CPU_VID_R<5> - @mlb_noldo_lib.MLB_NOLDO	9D2 58C7
CPU_VID_R<6>	CPU_VID_R<6> - @mlb_noldo_lib.MLB_NOLDO	9D2 58C7
CPU_XDP_CLK_N	CPU_XDP_CLK_N - @mlb_noldo_lib.MLB_NOLDO	11B3 33D2 33D3
CPU_XDP_CLK_P	CPU_XDP_CLK_P - @mlb_noldo_lib.MLB_NOLDO	11B3 33D2 33D3
CRB_SV_DET	CRB_SV_DET - @mlb_noldo_lib.MLB_NOLDO	23B6 23C3
CRT_BLUE	CRT_BLUE - @mlb_noldo_lib.MLB_NOLDO	13B5 69B8
CRT_DDC_CLK	CRT_DDC_CLK - @mlb_noldo_lib.MLB_NOLDO	13B5 69D7

CRT_DDC_DATA	CRT_DDC_DATA - @mlb_noldo_lib.MLB_NOLDO	13B5 69D7
CRT_GREEN	CRT_GREEN - @mlb_noldo_lib.MLB_NOLDO	13B5 69A8
CRT_HSYNC_LS	CRT_HSYNC_LS - @mlb_noldo_lib.MLB_NOLDO	69C2
CRT_HSYNC_LS_R	CRT_HSYNC_LS_R - @mlb_noldo_lib.MLB_NOLDO	69C3
CRT_HSYNC_R	CRT_HSYNC_R - @mlb_noldo_lib.MLB_NOLDO	13B5 69C3
CRT_IREF	CRT_IREF - @mlb_noldo_lib.MLB_NOLDO	13B5 69C8
CRT_RED	CRT_RED - @mlb_noldo_lib.MLB_NOLDO	13B5 69A8
CRT_VSYNC_LS	CRT_VSYNC_LS - @mlb_noldo_lib.MLB_NOLDO	69C2
CRT_VSYNC_LS_R	CRT_VSYNC_LS_R - @mlb_noldo_lib.MLB_NOLDO	69C3
CRT_VSYNC_R	CRT_VSYNC_R - @mlb_noldo_lib.MLB_NOLDO	13B5 69C3
DCIN_ISENSE	DCIN_ISENSE - @mlb_noldo_lib.MLB_NOLDO	66C3
DEBUG_RST_L	DEBUG_RST_L - @mlb_noldo_lib.MLB_NOLDO	5C2 26B1 47C6
DMI_IRCOMP_R	DMI_IRCOMP_R - @mlb_noldo_lib.MLB_NOLDO	22C2
DMI_N2S_N<0>	DMI_N2S_N<0> - @mlb_noldo_lib.MLB_NOLDO	14B4 22D2
DMI_N2S_N<1>	DMI_N2S_N<1> - @mlb_noldo_lib.MLB_NOLDO	14B4 22D2
DMI_N2S_N<2>	DMI_N2S_N<2> - @mlb_noldo_lib.MLB_NOLDO	14B4 22D2
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DMI_S2N_N<0>	DMI_S2N_N<0> - @mlb_noldo_lib.MLB_NOLDO	14B4 22D2
DMI_S2N_N<1>	DMI_S2N_N<1> - @mlb_noldo_lib.MLB_NOLDO	14B4 22D2
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ENETPWR_EN	ENETPWR_EN - @mlb_noldo_lib.MLB_NOLDO	60B5 60C5 60D4
ENET_BOB_SMITH_CAP	ENET_BOB_SMITH_CAP - @mlb_noldo_lib.MLB_NOLDO	37A5
ENET_CENTER_TAP<0>	ENET_CENTER_TAP<0> - @mlb_noldo_lib.MLB_NOLDO	37C6
ENET_CENTER_TAP<1>	ENET_CENTER_TAP<1> - @mlb_noldo_lib.MLB_NOLDO	37B6
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ENET_CENTER_TAP<3>	ENET_CENTER_TAP<3> - @mlb_noldo_lib.MLB_NOLDO	37B6
ENET_CLK100M_PCIE_N	ENET_CLK100M_PCIE_N - @mlb_noldo_lib.MLB_NOLDO	33C3 33D2 36C6
ENET_CLK100M_PCIE_P	ENET_CLK100M_PCIE_P - @mlb_noldo_lib.MLB_NOLDO	33C3 33D2 36C6
ENET_CTRL12	ENET_CTRL12 - @mlb_noldo_lib.MLB_NOLDO	6A4 36C8
	ENET_CTRL12_SPN - @mlb_noldo_lib.MLB_NOLDO	6A3
ENET_CTRL25	ENET_CTRL25 - @mlb_noldo_lib.MLB_NOLDO	6A4 36C8
	ENET_CTRL25_SPN - @mlb_noldo_lib.MLB_NOLDO	6A3
ENET_LOM_DIS_L	ENET_LOM_DIS_L - @mlb_noldo_lib.MLB_NOLDO	36D8
ENET_MDI0	ENET_MDI0 - @mlb_noldo_lib.MLB_NOLDO	36B5
ENET_MDI1	ENET_MDI1 - @mlb_noldo_lib.MLB_NOLDO	36B4
ENET_MDI2	ENET_MDI2 - @mlb_noldo_lib.MLB_NOLDO	36B4
ENET_MDI3	ENET_MDI3 - @mlb_noldo_lib.MLB_NOLDO	36B3
ENET_MDI_N<0>	ENET_MDI_N<0> - @mlb_noldo_lib.MLB_NOLDO	36C3 37C8
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ENET_MDI_P<3>	ENET_MDI_P<3> - @mlb_noldo_lib.MLB_NOLDO	36C3 37B8
ENET_MDI_TRAN_N<0>	ENET_MDI_TRAN_N<0> - @mlb_noldo_lib.MLB_NOLDO	37C5
ENET_MDI_TRAN_N<1>	ENET_MDI_TRAN_N<1> - @mlb_noldo_lib.MLB_NOLDO	37B5
ENET_MDI_TRAN_N<2>	ENET_MDI_TRAN_N<2> - @mlb_noldo_lib.MLB_NOLDO	5A7 37B5
ENET_MDI_TRAN_N<3>	ENET_MDI_TRAN_N<3> - @mlb_noldo_lib.MLB_NOLDO	37B5
ENET_MDI_TRAN_P<0>	ENET_MDI_TRAN_P<0> - @mlb_noldo_lib.MLB_NOLDO	37C5
ENET_MDI_TRAN_P<1>	ENET_MDI_TRAN_P<1> - @mlb_noldo_lib.MLB_NOLDO	37B5
ENET_MDI_TRAN_P<2>	ENET_MDI_TRAN_P<2> - @mlb_noldo_lib.MLB_NOLDO	5A7 37B5
ENET_MDI_TRAN_P<3>	ENET_MDI_TRAN_P<3> - @mlb_noldo_lib.MLB_NOLDO	5A7 37B5
ENET_PU_VDD_TTL0	ENET_PU_VDD_TTL0 - @mlb_noldo_lib.MLB_NOLDO	36A6 36C6

ENET_PU_VDD_TTL1	ENET_PU_VDD_TTL1 - @mlb_noldo_lib.MLB_NOLDO	36A6 36B6
ENET_RSET	ENET_RSET - @mlb_noldo_lib.MLB_NOLDO	36C8
ENET_RST_L	ENET_RST_L - @mlb_noldo_lib.MLB_NOLDO	26A1 36C6
ENET_VPD_CLK	ENET_VPD_CLK - @mlb_noldo_lib.MLB_NOLDO	36A2 36C6
ENET_VPD_DATA	ENET_VPD_DATA - @mlb_noldo_lib.MLB_NOLDO	36A2 36C6
ENET_XTALI	ENET_XTALI - @mlb_noldo_lib.MLB_NOLDO	36B6
ENET_XTALO	ENET_XTALO - @mlb_noldo_lib.MLB_NOLDO	36B6
EXTAUSB_OC_F_L	EXTAUSB_OC_F_L - @mlb_noldo_lib.MLB_NOLDO	42C8
EXTBUSB_OC_F_L	EXTBUSB_OC_F_L - @mlb_noldo_lib.MLB_NOLDO	42C8
EXT_COMPVID_B	EXT_COMPVID_B - @mlb_noldo_lib.MLB_NOLDO	69B6
EXT_C_R	EXT_C_R - @mlb_noldo_lib.MLB_NOLDO	69A6
EXT_Y_G	EXT_Y_G - @mlb_noldo_lib.MLB_NOLDO	69A6
FAN_RT_PWM	FAN_RT_PWM - @mlb_noldo_lib.MLB_NOLDO	5D2 51B3
FAN_RT_TACH	FAN_RT_TACH - @mlb_noldo_lib.MLB_NOLDO	5D2 51C3
FSB_ADSTB_L<0>	FSB_ADSTB_L<0> - @mlb_noldo_lib.MLB_NOLDO	7D8 12C4
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FSB_ADS_L	FSB_ADS_L - @mlb_noldo_lib.MLB_NOLDO	7D6 12C4
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FSB_A_L<31>	FSB_A_L<31> - @mlb_noldo_lib.MLB_NOLDO	7C8 12C4
FSB_BNR_L	FSB_BNR_L - @mlb_noldo_lib.MLB_NOLDO	7D6 12C4
FSB_BPRI_L	FSB_BPRI_L - @mlb_noldo_lib.MLB_NOLDO	7D6 12C4
FSB_BREQ0_L	FSB_BREQ0_L - @mlb_noldo_lib.MLB_NOLDO	7D6 12C4
FSB_CLK_CPU_N	FSB_CLK_CPU_N - @mlb_noldo_lib.MLB_NOLDO	7C6 33C2 33D3
FSB_CLK_CPU_P	FSB_CLK_CPU_P - @mlb_noldo_lib.MLB_NOLDO	7C6 33C2 33D3
FSB_CLK_NB_N	FSB_CLK_NB_N - @mlb_noldo_lib.MLB_NOLDO	12A6 33C2 33D3
FSB_CLK_NB_P	FSB_CLK_NB_P - @mlb_noldo_lib.MLB_NOLDO	12A6 33D2 33D3
FSB_CPURST_L	FSB_CPURST_L - @mlb_noldo_lib.MLB_NOLDO	7D6 11B5 12C4
FSB_DBSY_L	FSB_DBSY_L - @mlb_noldo_lib.MLB_NOLDO	7D6 12B4
FSB_DEFER_L	FSB_DEFER_L - @mlb_noldo_lib.MLB_NOLDO	7D6 12B4
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FSB_DINV_L<3>	FSB_DINV_L<3> - @mlb_noldo_lib.MLB_NOLDO	7B3 12B4
FSB_DPWR_L	FSB_DPWR_L - @mlb_noldo_lib.MLB_NOLDO	7B3 12B4
FSB_DRDY_L	FSB_DRDY_L - @mlb_noldo_lib.MLB_NOLDO	7D6 12B4
FSB_DSTBN_L<0>	FSB_DSTBN_L<0> - @mlb_noldo_lib.MLB_NOLDO	7C4 12B4

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                    @mlb_noldo_lib.MLB_NOLDO
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                    SMC_CPU_INIT_3_3_L -                      6B1 45D5
                    @mlb_noldo_lib.MLB_NOLDO
FWH_MFG_MODE        FWH_MFG_MODE -                            23A6 23C5
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FWPWR_ACIN          FWPWR_ACIN -                              39C6
                    @mlb_noldo_lib.MLB_NOLDO
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                    @mlb_noldo_lib.MLB_NOLDO
FWPWR_EN_L_R        FWPWR_EN_L_R -                            60C7
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FWPWR_RUN           FWPWR_RUN -                               39C6
                    @mlb_noldo_lib.MLB_NOLDO
FW_A_TPA_N          FW_A_TPA_N -                              38B3 39B6
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                    FW_PORT0_TPA_N -                          39B5
                    @mlb_noldo_lib.MLB_NOLDO
FW_A_TPA_P          FW_A_TPA_P -                              38B3 39B6
                    @mlb_noldo_lib.MLB_NOLDO
                    FW_PORT0_TPA_P -                          39B5
                    @mlb_noldo_lib.MLB_NOLDO
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                    @mlb_noldo_lib.MLB_NOLDO
FW_A_TPB_N          FW_A_TPB_N -                              38B3 39B6
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FW_A_TPB_P          FW_A_TPB_P -                              38B3 39B6
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                    @mlb_noldo_lib.MLB_NOLDO
FW_PCI_RST_L        FW_PCI_RST_L -                            38A5
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FW_PORT0_TPA_P_FL   FW_PORT0_TPA_P_FL -                       39B2
                    @mlb_noldo_lib.MLB_NOLDO
FW_PORT0_TPB        FW_PORT0_TPB -                            39A5
                    @mlb_noldo_lib.MLB_NOLDO
FW_PORT0_TPB_N_FL   FW_PORT0_TPB_N_FL -                       39B2
                    @mlb_noldo_lib.MLB_NOLDO
FW_PORT0_TPB_P_FL   FW_PORT0_TPB_P_FL -                       39B2
                    @mlb_noldo_lib.MLB_NOLDO
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                    @mlb_noldo_lib.MLB_NOLDO
FW_R0               FW_R0 - @mlb_noldo_lib.MLB_NOLDO          38B3
FW_R1               FW_R1 - @mlb_noldo_lib.MLB_NOLDO          38C3
FW_XI               FW_XI - @mlb_noldo_lib.MLB_NOLDO          38C3
FW_XO               FW_XO - @mlb_noldo_lib.MLB_NOLDO          38C3
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GEYSER_GND_F        GEYSER_GND_F -                            40C5
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GND_1V51V05S0_SGND  GND_1V51V05S0_SGND -                      62B7
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                    @mlb_noldo_lib.MLB_NOLDO
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                                                              57B3 57B3 57B5 57B8 57C3
                                                              57C5 57C8 57D8 64B3
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                    @mlb_noldo_lib.MLB_NOLDO
GND_CHASSIS_FANSCREW GND_CHASSIS_FANSCREW -                   6B8
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IDE_PDD<12>         IDE_PDD<12> -                             21B5 34C3
                    @mlb_noldo_lib.MLB_NOLDO
IDE_PDD<13>         IDE_PDD<13> -                             21B5 34C3
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IDE_PDD<14>         IDE_PDD<14> -                             21B5 34C3
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IDE_PDD<15>         IDE_PDD<15> -                             21B5 34C3
                    @mlb_noldo_lib.MLB_NOLDO
IDE_PDDACK_L        IDE_PDDACK_L -                            21B6 34B3
                    @mlb_noldo_lib.MLB_NOLDO
IDE_PDDREQ          IDE_PDDREQ -                              21B6 34B6
                    @mlb_noldo_lib.MLB_NOLDO
IDE_PDIORDY         IDE_PDIORDY -                             21B6 34B6
                    @mlb_noldo_lib.MLB_NOLDO
IDE_PDIOR_L         IDE_PDIOR_L -                             21B6 34C3
                    @mlb_noldo_lib.MLB_NOLDO
IDE_PDIOW_L         IDE_PDIOW_L -                             21B6 34B5
                    @mlb_noldo_lib.MLB_NOLDO
IDE_RESET_L         IDE_RESET_L -                             23A3 34C5
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_BOOT1         IMVP6_BOOT1 -                             58A8 58C6
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_BOOT1_RC      IMVP6_BOOT1_RC -                          58D5
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_BOOT2         IMVP6_BOOT2 -                             58A6 58C6
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_BOOT2_RC      IMVP6_BOOT2_RC -                          58C5
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_COMP          IMVP6_COMP -                              5D7 58A4 58B7
                    @mlb_noldo_lib.MLB_NOLDO
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IMVP6_COMP_RC       IMVP6_COMP_RC -                           58B8
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_CPU_ISENSE_N  IMVP6_CPU_ISENSE_N -                      48C4
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_CPU_ISENSE_P  IMVP6_CPU_ISENSE_P -                      48D4
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_DFB           IMVP6_DFB -                               58A4 58B6
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_DROOP         IMVP6_DROOP -                             48D5 58A4 58B6
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_FB            IMVP6_FB - @mlb_noldo_lib.MLB_NOLDO       58A4 58B7
IMVP6_FB2           IMVP6_FB2 -                               58A4 58B7
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_FET_RC1       IMVP6_FET_RC1 -                           58A8 58C2
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_FET_RC2       IMVP6_FET_RC2 -                           58A6 58B2
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_ISEN1         IMVP6_ISEN1 -                             58A8 58C6
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_ISEN2         IMVP6_ISEN2 -                             58A6 58C6
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_LGATE1        IMVP6_LGATE1 -                            58A8 58C6
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_LGATE2        IMVP6_LGATE2 -                            58A6 58C6
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_NTC           IMVP6_NTC -                               58C7
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_NTC_R         IMVP6_NTC_R -                             58C7
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_OCSET         IMVP6_OCSET -                             58A4 58B6
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_PHASE1        IMVP6_PHASE1 -                            58A8 58C6
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_PHASE2        IMVP6_PHASE2 -                            58A6 58C6
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_RBIAS         IMVP6_RBIAS -                             5D7 58A4 58B7
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_RTN           IMVP6_RTN -                               58A4 58B6
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_SOFT          IMVP6_SOFT -                              58A4 58C7
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_UGATE1        IMVP6_UGATE1 -                            58A8 58C6
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_UGATE2        IMVP6_UGATE2 -                            58A6 58C6
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_VDIFF         IMVP6_VDIFF -                             58A4 58B7
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_VDIFF_RC      IMVP6_VDIFF_RC -                          58B7
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_VO            IMVP6_VO - @mlb_noldo_lib.MLB_NOLDO       48C5 58A4 58B6
IMVP6_VO_R          IMVP6_VO_R -                              58B4
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_VO_R1         IMVP6_VO_R1 -                             58A8
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_VO_R2         IMVP6_VO_R2 -                             58A6
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_VR_TT         IMVP6_VR_TT -                             58C7
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_VSEN          IMVP6_VSEN -                              58A4 58B5
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_VSUM          IMVP6_VSUM -                              58A4 58C6
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_VSUM_R1       IMVP6_VSUM_R1 -                           58A8
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_VSUM_R2       IMVP6_VSUM_R2 -                           58A6
                    @mlb_noldo_lib.MLB_NOLDO
IMVP6_VW            IMVP6_VW - @mlb_noldo_lib.MLB_NOLDO       58A4 58B7
IMVP_DPRSLPVR       IMVP_DPRSLPVR -                           58C7
                    @mlb_noldo_lib.MLB_NOLDO
IMVP_VR_ON          IMVP_VR_ON -                              45D8 58C7
                    @mlb_noldo_lib.MLB_NOLDO
INT_PIRQA_L         INT_PIRQA_L -                             22A7 26C3
                    @mlb_noldo_lib.MLB_NOLDO
INT_PIRQB_L         INT_PIRQB_L -                             22A7 26C3
                    @mlb_noldo_lib.MLB_NOLDO
INT_PIRQC_L         INT_PIRQC_L -                             22A7 26C3
                    @mlb_noldo_lib.MLB_NOLDO
INT_PIRQD_L         INT_PIRQD_L -                             22A7 26C3 38A5
                    @mlb_noldo_lib.MLB_NOLDO
INT_SERIRQ          INT_SERIRQ -                              5C2 23C8 45C8 47C5 53C6
                    @mlb_noldo_lib.MLB_NOLDO
INVT_CHGND          INVT_CHGND -                              6D8 67C2
                    @mlb_noldo_lib.MLB_NOLDO
INV_BKLIGHT_PWM_L   INV_BKLIGHT_PWM_L -                       5B1 67D2
                    @mlb_noldo_lib.MLB_NOLDO
INV_GND             INV_GND - @mlb_noldo_lib.MLB_NOLDO        5B1 67D2
INV_PWREN_F_L       INV_PWREN_F_L -                           67D6
                    @mlb_noldo_lib.MLB_NOLDO
INV_PWREN_L         INV_PWREN_L -                             67D6
                    @mlb_noldo_lib.MLB_NOLDO
IR_RX_OUT           IR_RX_OUT -                               35C6 41C6
                    @mlb_noldo_lib.MLB_NOLDO
IR_RX_OUT_F         IR_RX_OUT_F -                             41C5
                    @mlb_noldo_lib.MLB_NOLDO
ISENSE_CAL_EN       ISENSE_CAL_EN -                           45B8 48A8
                    @mlb_noldo_lib.MLB_NOLDO
ISENSE_CAL_EN_L     ISENSE_CAL_EN_L -                         48A7
                    @mlb_noldo_lib.MLB_NOLDO
ISENSE_CAL_EN_LS5V  ISENSE_CAL_EN_LS5V -                      48A6
                    @mlb_noldo_lib.MLB_NOLDO
ITPRESET_L          ITPRESET_L -                              11B3
                    @mlb_noldo_lib.MLB_NOLDO
ITP_TDO             ITP_TDO - @mlb_noldo_lib.MLB_NOLDO        11B3
J2900_SA1           J2900_SA1 -                               29A4
                    @mlb_noldo_lib.MLB_NOLDO
KBC_MDE             KBC_MDE - @mlb_noldo_lib.MLB_NOLDO        45C2
LCDVDD_PWREN_L      LCDVDD_PWREN_L -                          67B7
                    @mlb_noldo_lib.MLB_NOLDO
LCDVDD_PWREN_L_R    LCDVDD_PWREN_L_R -                        67B6
                    @mlb_noldo_lib.MLB_NOLDO
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                    @mlb_noldo_lib.MLB_NOLDO
LPC_AD<1>           LPC_AD<1> -                               5D2 21D4 45D8 47C6 53C6
                    @mlb_noldo_lib.MLB_NOLDO
LPC_AD<2>           LPC_AD<2> -                               5C2 21D4 45D8 47C5 53C6
                    @mlb_noldo_lib.MLB_NOLDO
LPC_AD<3>           LPC_AD<3> -                               5C2 21D4 45D8 47C5 53C6
                    @mlb_noldo_lib.MLB_NOLDO
LPC_FRAME_L         LPC_FRAME_L -                             5C2 21C5 45C8 47C6 53C6
                    @mlb_noldo_lib.MLB_NOLDO
LVDS_A_CLK_N        LVDS_A_CLK_N -                            13D5 67B2
                    @mlb_noldo_lib.MLB_NOLDO
LVDS_A_CLK_P        LVDS_A_CLK_P -                            13C5 67B2
                    @mlb_noldo_lib.MLB_NOLDO
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LVDS_A_DATA_N<2>	LVDS_A_DATA_N<2> - @mlb_noldo_lib.MLB_NOLDO	13C5 67B2
LVDS_A_DATA_P<0>	LVDS_A_DATA_P<0> - @mlb_noldo_lib.MLB_NOLDO	13C5 67B2
LVDS_A_DATA_P<1>	LVDS_A_DATA_P<1> - @mlb_noldo_lib.MLB_NOLDO	13C5 67B2
LVDS_A_DATA_P<2>	LVDS_A_DATA_P<2> - @mlb_noldo_lib.MLB_NOLDO	13C5 67B2
LVDS_BKLTCTL	LVDS_BKLTCTL - @mlb_noldo_lib.MLB_NOLDO	13D5 67C6
LVDS_BKLTEN	LVDS_BKLTEN - @mlb_noldo_lib.MLB_NOLDO	13D5 67D7
LVDS_B_CLK_N	LVDS_B_CLK_N - @mlb_noldo_lib.MLB_NOLDO	6D6 13C5
	LVDS_B_CLK_N_SPN - @mlb_noldo_lib.MLB_NOLDO	5A7 6D5
LVDS_B_CLK_P	LVDS_B_CLK_P - @mlb_noldo_lib.MLB_NOLDO	6D6 13C5
	LVDS_B_CLK_P_SPN - @mlb_noldo_lib.MLB_NOLDO	5A7 6D5
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	LVDS_B_DATA_N0_SPN - @mlb_noldo_lib.MLB_NOLDO	5A7 6D5
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	LVDS_B_DATA_N1_SPN - @mlb_noldo_lib.MLB_NOLDO	5A7 6D5
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	LVDS_B_DATA_N2_SPN - @mlb_noldo_lib.MLB_NOLDO	5A7 6D5
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	LVDS_B_DATA_P0_SPN - @mlb_noldo_lib.MLB_NOLDO	6D5
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	LVDS_B_DATA_P1_SPN - @mlb_noldo_lib.MLB_NOLDO	5A7 6D5
LVDS_B_DATA_P<2>	LVDS_B_DATA_P<2> - @mlb_noldo_lib.MLB_NOLDO	6D6 13C5
	LVDS_B_DATA_P2_SPN - @mlb_noldo_lib.MLB_NOLDO	5A7 6D5
LVDS_CLKCTLA	LVDS_CLKCTLA - @mlb_noldo_lib.MLB_NOLDO	13D5 67A7
LVDS_CLKCTLB	LVDS_CLKCTLB - @mlb_noldo_lib.MLB_NOLDO	13D5 67A7
LVDS_DDC_CLK	LVDS_DDC_CLK - @mlb_noldo_lib.MLB_NOLDO	13D5 67B6
LVDS_DDC_DATA	LVDS_DDC_DATA - @mlb_noldo_lib.MLB_NOLDO	13D5 67B6
LVDS_IBG	LVDS_IBG - @mlb_noldo_lib.MLB_NOLDO	13D5 67A6
LVDS_VDDEN	LVDS_VDDEN - @mlb_noldo_lib.MLB_NOLDO	13D5 67B7
MAX9705_L_N	MAX9705_L_N - @mlb_noldo_lib.MLB_NOLDO	55B6
MAX9705_R_N	MAX9705_R_N - @mlb_noldo_lib.MLB_NOLDO	55C6
MAX9705_SUB_N	MAX9705_SUB_N - @mlb_noldo_lib.MLB_NOLDO	55A6
MAX9890_CEXT	MAX9890_CEXT - @mlb_noldo_lib.MLB_NOLDO	57B1
MAX9890_INL	MAX9890_INL - @mlb_noldo_lib.MLB_NOLDO	57B2
MAX9890_INR	MAX9890_INR - @mlb_noldo_lib.MLB_NOLDO	57B2
MEMVTT_EN	MEMVTT_EN - @mlb_noldo_lib.MLB_NOLDO	31B5
MEMVTT_VREF	MEMVTT_VREF - @mlb_noldo_lib.MLB_NOLDO	31C4
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MEM_A_A<14>	MEM_A_A<14> - @mlb_noldo_lib.MLB_NOLDO	6A4 28C4
	MEM_A_A14_SPN - @mlb_noldo_lib.MLB_NOLDO	6A3
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	MEM_A_A15_SPN - @mlb_noldo_lib.MLB_NOLDO	6A3
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MEM_A_BS<2..0>	MEM_A_BS<2..0> - @mlb_noldo_lib.MLB_NOLDO	30C6
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MEM_A_BS<2>	MEM_A_BS<2> - @mlb_noldo_lib.MLB_NOLDO	15D5 28C6
MEM_A_CAS_L	MEM_A_CAS_L - @mlb_noldo_lib.MLB_NOLDO	15D5 28B6 30B6
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MEM_A_DQ<35>	MEM_A_DQ<35> - @mlb_noldo_lib.MLB_NOLDO	15B7 28B4
MEM_A_DQ<36>	MEM_A_DQ<36> - @mlb_noldo_lib.MLB_NOLDO	15B7 28B4
MEM_A_DQ<37>	MEM_A_DQ<37> - @mlb_noldo_lib.MLB_NOLDO	15B7 28B6
MEM_A_DQ<38>	MEM_A_DQ<38> - @mlb_noldo_lib.MLB_NOLDO	15B7 28B6
MEM_A_DQ<39>	MEM_A_DQ<39> - @mlb_noldo_lib.MLB_NOLDO	15B7 28B6
MEM_A_DQ<40>	MEM_A_DQ<40> - @mlb_noldo_lib.MLB_NOLDO	15B7 28B4
MEM_A_DQ<41>	MEM_A_DQ<41> - @mlb_noldo_lib.MLB_NOLDO	15B7 28B6
MEM_A_DQ<42>	MEM_A_DQ<42> - @mlb_noldo_lib.MLB_NOLDO	15B7 28A4
MEM_A_DQ<43>	MEM_A_DQ<43> - @mlb_noldo_lib.MLB_NOLDO	15B7 28A6
MEM_A_DQ<44>	MEM_A_DQ<44> - @mlb_noldo_lib.MLB_NOLDO	15B7 28B6
MEM_A_DQ<45>	MEM_A_DQ<45> - @mlb_noldo_lib.MLB_NOLDO	15B7 28B4
MEM_A_DQ<46>	MEM_A_DQ<46> - @mlb_noldo_lib.MLB_NOLDO	15B7 28A4
MEM_A_DQ<47>	MEM_A_DQ<47> - @mlb_noldo_lib.MLB_NOLDO	15B7 28A6
MEM_A_DQ<48>	MEM_A_DQ<48> - @mlb_noldo_lib.MLB_NOLDO	15B7 28A6
MEM_A_DQ<49>	MEM_A_DQ<49> - @mlb_noldo_lib.MLB_NOLDO	15B7 28A6
MEM_A_DQ<50>	MEM_A_DQ<50> - @mlb_noldo_lib.MLB_NOLDO	15B7 28A4
MEM_A_DQ<51>	MEM_A_DQ<51> - @mlb_noldo_lib.MLB_NOLDO	15B7 28A4
MEM_A_DQ<52>	MEM_A_DQ<52> - @mlb_noldo_lib.MLB_NOLDO	15B7 28A6
MEM_A_DQ<53>	MEM_A_DQ<53> - @mlb_noldo_lib.MLB_NOLDO	15B7 28A4
MEM_A_DQ<54>	MEM_A_DQ<54> - @mlb_noldo_lib.MLB_NOLDO	15B7 28A4
MEM_A_DQ<55>	MEM_A_DQ<55> - @mlb_noldo_lib.MLB_NOLDO	15B7 28A6
MEM_A_DQ<56>	MEM_A_DQ<56> - @mlb_noldo_lib.MLB_NOLDO	15B7 28A6
MEM_A_DQ<57>	MEM_A_DQ<57> - @mlb_noldo_lib.MLB_NOLDO	15B7 28A6
MEM_A_DQ<58>	MEM_A_DQ<58> - @mlb_noldo_lib.MLB_NOLDO	15B7 28A6
MEM_A_DQ<59>	MEM_A_DQ<59> - @mlb_noldo_lib.MLB_NOLDO	15B7 28A4
MEM_A_DQ<60>	MEM_A_DQ<60> - @mlb_noldo_lib.MLB_NOLDO	15A7 28A4
MEM_A_DQ<61>	MEM_A_DQ<61> - @mlb_noldo_lib.MLB_NOLDO	15A7 28A4
MEM_A_DQ<62>	MEM_A_DQ<62> - @mlb_noldo_lib.MLB_NOLDO	15A7 28A4
MEM_A_DQ<63>	MEM_A_DQ<63> - @mlb_noldo_lib.MLB_NOLDO	15A7 28A6
MEM_A_DQS_N<0>	MEM_A_DQS_N<0> - @mlb_noldo_lib.MLB_NOLDO	15C5 28D6
MEM_A_DQS_N<1>	MEM_A_DQS_N<1> - @mlb_noldo_lib.MLB_NOLDO	15C5 28D6
MEM_A_DQS_N<2>	MEM_A_DQS_N<2> - @mlb_noldo_lib.MLB_NOLDO	15C5 28C4
MEM_A_DQS_N<3>	MEM_A_DQS_N<3> - @mlb_noldo_lib.MLB_NOLDO	15C5 28C6
MEM_A_DQS_N<4>	MEM_A_DQS_N<4> - @mlb_noldo_lib.MLB_NOLDO	15C5 28B6
MEM_A_DQS_N<5>	MEM_A_DQS_N<5> - @mlb_noldo_lib.MLB_NOLDO	15C5 28B4
MEM_A_DQS_N<6>	MEM_A_DQS_N<6> - @mlb_noldo_lib.MLB_NOLDO	15C5 28A4
MEM_A_DQS_N<7>	MEM_A_DQS_N<7> - @mlb_noldo_lib.MLB_NOLDO	15C5 28A6
MEM_A_DQS_P<0>	MEM_A_DQS_P<0> - @mlb_noldo_lib.MLB_NOLDO	15C5 28D6
MEM_A_DQS_P<1>	MEM_A_DQS_P<1> - @mlb_noldo_lib.MLB_NOLDO	15C5 28D6
MEM_A_DQS_P<2>	MEM_A_DQS_P<2> - @mlb_noldo_lib.MLB_NOLDO	15C5 28C4
MEM_A_DQS_P<3>	MEM_A_DQS_P<3> - @mlb_noldo_lib.MLB_NOLDO	15C5 28C6
MEM_A_DQS_P<4>	MEM_A_DQS_P<4> - @mlb_noldo_lib.MLB_NOLDO	15C5 28B6
MEM_A_DQS_P<5>	MEM_A_DQS_P<5> - @mlb_noldo_lib.MLB_NOLDO	15C5 28B4
MEM_A_DQS_P<6>	MEM_A_DQS_P<6> - @mlb_noldo_lib.MLB_NOLDO	15C5 28A4
MEM_A_DQS_P<7>	MEM_A_DQS_P<7> - @mlb_noldo_lib.MLB_NOLDO	15C5 28A6
MEM_A_RAS_L	MEM_A_RAS_L - @mlb_noldo_lib.MLB_NOLDO	15B5 28B4 30B6
MEM_A_WE_L	MEM_A_WE_L - @mlb_noldo_lib.MLB_NOLDO	15B5 28B6 30B6
MEM_B_A<0>	MEM_B_A<0> - @mlb_noldo_lib.MLB_NOLDO	15C2 29B4 30B5
MEM_B_A<1>	MEM_B_A<1> - @mlb_noldo_lib.MLB_NOLDO	15C2 29B6 30B5
MEM_B_A<2>	MEM_B_A<2> - @mlb_noldo_lib.MLB_NOLDO	15C2 29B4 30B5
MEM_B_A<3>	MEM_B_A<3> - @mlb_noldo_lib.MLB_NOLDO	15B2 29B6 30B5
MEM_B_A<4>	MEM_B_A<4> - @mlb_noldo_lib.MLB_NOLDO	15B2 29B4 30B5
MEM_B_A<5>	MEM_B_A<5> - @mlb_noldo_lib.MLB_NOLDO	15B2 29B6 30B5
MEM_B_A<6>	MEM_B_A<6> - @mlb_noldo_lib.MLB_NOLDO	15B2 29C4 30B5
MEM_B_A<7>	MEM_B_A<7> - @mlb_noldo_lib.MLB_NOLDO	15B2 29C4 30B5
MEM_B_A<8>	MEM_B_A<8> - @mlb_noldo_lib.MLB_NOLDO	15B2 29C6 30B5
MEM_B_A<9>	MEM_B_A<9> - @mlb_noldo_lib.MLB_NOLDO	15B2 29C6 30B5
MEM_B_A<10>	MEM_B_A<10> - @mlb_noldo_lib.MLB_NOLDO	15B2 29B6 30B5
MEM_B_A<11>	MEM_B_A<11> - @mlb_noldo_lib.MLB_NOLDO	15B2 29C4 30A5
MEM_B_A<12>	MEM_B_A<12> - @mlb_noldo_lib.MLB_NOLDO	15B2 29C6 30A5
MEM_B_A<13>	MEM_B_A<13> - @mlb_noldo_lib.MLB_NOLDO	15B2 29B4 30A5
MEM_B_A<14>	MEM_B_A<14> - @mlb_noldo_lib.MLB_NOLDO	6A4 29C4
	MEM_B_A14_SPN - @mlb_noldo_lib.MLB_NOLDO	6A3
MEM_B_A<15>	MEM_B_A<15> - @mlb_noldo_lib.MLB_NOLDO	6A4 29C4
	MEM_B_A15_SPN - @mlb_noldo_lib.MLB_NOLDO	6A3
MEM_B_BS<0>	MEM_B_BS<0> - @mlb_noldo_lib.MLB_NOLDO	15D2 29B6
MEM_B_BS<2..0>	MEM_B_BS<2..0> - @mlb_noldo_lib.MLB_NOLDO	30A6
MEM_B_BS<1>	MEM_B_BS<1> - @mlb_noldo_lib.MLB_NOLDO	15D2 29B4
MEM_B_BS<2>	MEM_B_BS<2> - @mlb_noldo_lib.MLB_NOLDO	15D2 29C6
MEM_B_CAS_L	MEM_B_CAS_L - @mlb_noldo_lib.MLB_NOLDO	15D2 29B6 30A6
MEM_B_DM<0>	MEM_B_DM<0> - @mlb_noldo_lib.MLB_NOLDO	15D2 29D4
MEM_B_DM<1>	MEM_B_DM<1> - @mlb_noldo_lib.MLB_NOLDO	15D2 29D4
MEM_B_DM<2>	MEM_B_DM<2> - @mlb_noldo_lib.MLB_NOLDO	15D2 29C4
MEM_B_DM<3>	MEM_B_DM<3> - @mlb_noldo_lib.MLB_NOLDO	15C2 29C6
MEM_B_DM<4>	MEM_B_DM<4> - @mlb_noldo_lib.MLB_NOLDO	15C2 29A4
MEM_B_DM<5>	MEM_B_DM<5> - @mlb_noldo_lib.MLB_NOLDO	15C2 29A6
MEM_B_DM<6>	MEM_B_DM<6> - @mlb_noldo_lib.MLB_NOLDO	15C2 29A6
MEM_B_DM<7>	MEM_B_DM<7> - @mlb_noldo_lib.MLB_NOLDO	15C2 29B4
MEM_B_DQ<0>	MEM_B_DQ<0> - @mlb_noldo_lib.MLB_NOLDO	15D4 29D4
MEM_B_DQ<1>	MEM_B_DQ<1> - @mlb_noldo_lib.MLB_NOLDO	15D4 29D6
MEM_B_DQ<2>	MEM_B_DQ<2> - @mlb_noldo_lib.MLB_NOLDO	15D4 29D6
MEM_B_DQ<3>	MEM_B_DQ<3> - @mlb_noldo_lib.MLB_NOLDO	15D4 29D6
MEM_B_DQ<4>	MEM_B_DQ<4> - @mlb_noldo_lib.MLB_NOLDO	15D4 29D4
MEM_B_DQ<5>	MEM_B_DQ<5> - @mlb_noldo_lib.MLB_NOLDO	15D4 29D6
MEM_B_DQ<6>	MEM_B_DQ<6> - @mlb_noldo_lib.MLB_NOLDO	15D4 29D4
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MEM_B_DQ<8>	MEM_B_DQ<8> - @mlb_noldo_lib.MLB_NOLDO	15C4 29D6
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MEM_B_DQ<22>	MEM_B_DQ<22> - @mlb_noldo_lib.MLB_NOLDO	15C4 29C6
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MEM_B_DQ<25>	MEM_B_DQ<25> - @mlb_noldo_lib.MLB_NOLDO	15C4 29C4
MEM_B_DQ<26>	MEM_B_DQ<26> - @mlb_noldo_lib.MLB_NOLDO	15C4 29C4
MEM_B_DQ<27>	MEM_B_DQ<27> - @mlb_noldo_lib.MLB_NOLDO	15C4 29C6
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MEM_B_DQ<29>	MEM_B_DQ<29> - @mlb_noldo_lib.MLB_NOLDO	15C4 29C6
MEM_B_DQ<30>	MEM_B_DQ<30> - @mlb_noldo_lib.MLB_NOLDO	15C4 29C6
MEM_B_DQ<31>	MEM_B_DQ<31> - @mlb_noldo_lib.MLB_NOLDO	15C4 29C6
MEM_B_DQ<32>	MEM_B_DQ<32> - @mlb_noldo_lib.MLB_NOLDO	15C4 29A6
MEM_B_DQ<33>	MEM_B_DQ<33> - @mlb_noldo_lib.MLB_NOLDO	15C4 29A4
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MEM_B_DQ<38>	MEM_B_DQ<38> - @mlb_noldo_lib.MLB_NOLDO	15B4 29A6
MEM_B_DQ<39>	MEM_B_DQ<39> - @mlb_noldo_lib.MLB_NOLDO	15B4 29A4
MEM_B_DQ<40>	MEM_B_DQ<40> - @mlb_noldo_lib.MLB_NOLDO	15B4 29A4
MEM_B_DQ<41>	MEM_B_DQ<41> - @mlb_noldo_lib.MLB_NOLDO	15B4 29A6
MEM_B_DQ<42>	MEM_B_DQ<42> - @mlb_noldo_lib.MLB_NOLDO	15B4 29A4
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MEM_B_DQ<49>	MEM_B_DQ<49> - @mlb_noldo_lib.MLB_NOLDO	15B4 29A6
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MEM_B_DQ<59>	MEM_B_DQ<59> - @mlb_noldo_lib.MLB_NOLDO	15B4 29B4
MEM_B_DQ<60>	MEM_B_DQ<60> - @mlb_noldo_lib.MLB_NOLDO	15A4 29B6
MEM_B_DQ<61>	MEM_B_DQ<61> - @mlb_noldo_lib.MLB_NOLDO	15A4 29B4
MEM_B_DQ<62>	MEM_B_DQ<62> - @mlb_noldo_lib.MLB_NOLDO	15A4 29B6
MEM_B_DQ<63>	MEM_B_DQ<63> - @mlb_noldo_lib.MLB_NOLDO	15A4 29B4
MEM_B_DQS_N<0>	MEM_B_DQS_N<0> - @mlb_noldo_lib.MLB_NOLDO	15C2 29D6
MEM_B_DQS_N<1>	MEM_B_DQS_N<1> - @mlb_noldo_lib.MLB_NOLDO	15C2 29D6

	@mlb_noldo_lib.MLB_NOLDO	
MEM_B_DQS_N<2>	MEM_B_DQS_N<2> - @mlb_noldo_lib.MLB_NOLDO	15C2 29C6
MEM_B_DQS_N<3>	MEM_B_DQS_N<3> - @mlb_noldo_lib.MLB_NOLDO	15C2 29C4
MEM_B_DQS_N<4>	MEM_B_DQS_N<4> - @mlb_noldo_lib.MLB_NOLDO	15C2 29A6
MEM_B_DQS_N<5>	MEM_B_DQS_N<5> - @mlb_noldo_lib.MLB_NOLDO	15C2 29A4
MEM_B_DQS_N<6>	MEM_B_DQS_N<6> - @mlb_noldo_lib.MLB_NOLDO	15C2 29B4
MEM_B_DQS_N<7>	MEM_B_DQS_N<7> - @mlb_noldo_lib.MLB_NOLDO	15C2 29B6
MEM_B_DQS_P<0>	MEM_B_DQS_P<0> - @mlb_noldo_lib.MLB_NOLDO	15C2 29D6
MEM_B_DQS_P<1>	MEM_B_DQS_P<1> - @mlb_noldo_lib.MLB_NOLDO	15C2 29D6
MEM_B_DQS_P<2>	MEM_B_DQS_P<2> - @mlb_noldo_lib.MLB_NOLDO	15C2 29C6
MEM_B_DQS_P<3>	MEM_B_DQS_P<3> - @mlb_noldo_lib.MLB_NOLDO	15C2 29C4
MEM_B_DQS_P<4>	MEM_B_DQS_P<4> - @mlb_noldo_lib.MLB_NOLDO	15C2 29A6
MEM_B_DQS_P<5>	MEM_B_DQS_P<5> - @mlb_noldo_lib.MLB_NOLDO	15C2 29A4
MEM_B_DQS_P<6>	MEM_B_DQS_P<6> - @mlb_noldo_lib.MLB_NOLDO	15C2 29A4
MEM_B_DQS_P<7>	MEM_B_DQS_P<7> - @mlb_noldo_lib.MLB_NOLDO	15C2 29B6
MEM_B_RAS_L	MEM_B_RAS_L - @mlb_noldo_lib.MLB_NOLDO	15B2 29B4 30A6
MEM_B_WE_L	MEM_B_WE_L - @mlb_noldo_lib.MLB_NOLDO	15B2 29B6 30A6
MEM_CKE<0>	MEM_CKE<0> - @mlb_noldo_lib.MLB_NOLDO	14C4 28C6
MEM_CKE<3..0>	MEM_CKE<3..0> - @mlb_noldo_lib.MLB_NOLDO	30D6
MEM_CKE<1>	MEM_CKE<1> - @mlb_noldo_lib.MLB_NOLDO	14C4 28C4
MEM_CKE<2>	MEM_CKE<2> - @mlb_noldo_lib.MLB_NOLDO	14C4 29C6
MEM_CKE<3>	MEM_CKE<3> - @mlb_noldo_lib.MLB_NOLDO	14C4 29C4
MEM_CLK_N<0>	MEM_CLK_N<0> - @mlb_noldo_lib.MLB_NOLDO	14D4 28D4
MEM_CLK_N<1>	MEM_CLK_N<1> - @mlb_noldo_lib.MLB_NOLDO	14D4 28A4
MEM_CLK_N<2>	MEM_CLK_N<2> - @mlb_noldo_lib.MLB_NOLDO	14D4 29A4
MEM_CLK_N<3>	MEM_CLK_N<3> - @mlb_noldo_lib.MLB_NOLDO	14D4 29D4
MEM_CLK_P<0>	MEM_CLK_P<0> - @mlb_noldo_lib.MLB_NOLDO	14D4 28D4
MEM_CLK_P<1>	MEM_CLK_P<1> - @mlb_noldo_lib.MLB_NOLDO	14D4 28A4
MEM_CLK_P<2>	MEM_CLK_P<2> - @mlb_noldo_lib.MLB_NOLDO	14D4 29A4
MEM_CLK_P<3>	MEM_CLK_P<3> - @mlb_noldo_lib.MLB_NOLDO	14D4 29D4
MEM_CS_L<0>	MEM_CS_L<0> - @mlb_noldo_lib.MLB_NOLDO	14C4 28B4
MEM_CS_L<3..0>	MEM_CS_L<3..0> - @mlb_noldo_lib.MLB_NOLDO	30D6
MEM_CS_L<1>	MEM_CS_L<1> - @mlb_noldo_lib.MLB_NOLDO	14C4 28B6
MEM_CS_L<2>	MEM_CS_L<2> - @mlb_noldo_lib.MLB_NOLDO	14C4 29B4
MEM_CS_L<3>	MEM_CS_L<3> - @mlb_noldo_lib.MLB_NOLDO	14C4 29B6
MEM_ISENSE	MEM_ISENSE - @mlb_noldo_lib.MLB_NOLDO	61C2
MEM_ISENSE_R1_N	MEM_ISENSE_R1_N - @mlb_noldo_lib.MLB_NOLDO	61C3
MEM_ISENSE_R1_P	MEM_ISENSE_R1_P - @mlb_noldo_lib.MLB_NOLDO	61C3
MEM_ISENSE_R2	MEM_ISENSE_R2 - @mlb_noldo_lib.MLB_NOLDO	61C2
MEM_ISENSE_VCC	MEM_ISENSE_VCC - @mlb_noldo_lib.MLB_NOLDO	61C2
MEM_ODT<0>	MEM_ODT<0> - @mlb_noldo_lib.MLB_NOLDO	14C4 28B4
MEM_ODT<3..0>	MEM_ODT<3..0> - @mlb_noldo_lib.MLB_NOLDO	30D6
MEM_ODT<1>	MEM_ODT<1> - @mlb_noldo_lib.MLB_NOLDO	14C4 28B6
MEM_ODT<2>	MEM_ODT<2> - @mlb_noldo_lib.MLB_NOLDO	14C4 29B4
MEM_ODT<3>	MEM_ODT<3> - @mlb_noldo_lib.MLB_NOLDO	14C4 29B6
MEM_RCOMP	MEM_RCOMP - @mlb_noldo_lib.MLB_NOLDO	14C4
MEM_RCOMP_L	MEM_RCOMP_L - @mlb_noldo_lib.MLB_NOLDO	14C4
MEM_VREF_A	MEM_VREF_A - @mlb_noldo_lib.MLB_NOLDO	28D1 28D7
MEM_VREF_B	MEM_VREF_B - @mlb_noldo_lib.MLB_NOLDO	29D1 29D7
MEM_VREF_NB_0	MEM_VREF_NB_0 - @mlb_noldo_lib.MLB_NOLDO	14C2 19C7
MEM_VREF_NB_1	MEM_VREF_NB_1 - @mlb_noldo_lib.MLB_NOLDO	14C2 19C6
MIC_HI	MIC_HI - @mlb_noldo_lib.MLB_NOLDO	56B3 57A8
MIC_HI_CONN	MIC_HI_CONN - @mlb_noldo_lib.MLB_NOLDO	56B1 56D3
MIC_HI_F	MIC_HI_F - @mlb_noldo_lib.MLB_NOLDO	56B2
MIC_IN	MIC_IN - @mlb_noldo_lib.MLB_NOLDO	57A7
MIC_LO	MIC_LO - @mlb_noldo_lib.MLB_NOLDO	56B3 57A8
MIC_LO_CONN	MIC_LO_CONN - @mlb_noldo_lib.MLB_NOLDO	56B1 56D3
MIC_LO_F	MIC_LO_F - @mlb_noldo_lib.MLB_NOLDO	56B2
MIC_SHIELD	MIC_SHIELD - @mlb_noldo_lib.MLB_NOLDO	56B3 57A8
MIC_SHIELD_F	MIC_SHIELD_F - @mlb_noldo_lib.MLB_NOLDO	56B2
MIC_SHLD_CONN	MIC_SHLD_CONN - @mlb_noldo_lib.MLB_NOLDO	56B1 56D3
MM1573DN_NR	MM1573DN_NR - @mlb_noldo_lib.MLB_NOLDO	19C3
NB_BSEL<0>	NB_BSEL<0> - @mlb_noldo_lib.MLB_NOLDO	14C6 33C7
NB_BSEL<1>	NB_BSEL<1> - @mlb_noldo_lib.MLB_NOLDO	14C6 33B7
NB_BSEL<2>	NB_BSEL<2> - @mlb_noldo_lib.MLB_NOLDO	14C6 33B7
NB_CFG<3>	NB_CFG<3> - @mlb_noldo_lib.MLB_NOLDO	6D4 14C6
	TP_NB_CFG3 - @mlb_noldo_lib.MLB_NOLDO	6D3
NB_CFG<4>	NB_CFG<4> - @mlb_noldo_lib.MLB_NOLDO	6D4 14C6
	TP_NB_CFG4 - @mlb_noldo_lib.MLB_NOLDO	6D3
NB_CFG<5>	NB_CFG<5> - @mlb_noldo_lib.MLB_NOLDO	14C6 20C7
NB_CFG<6>	NB_CFG<6> - @mlb_noldo_lib.MLB_NOLDO	6D4 14C6
	TP_NB_CFG6 - @mlb_noldo_lib.MLB_NOLDO	6D3
NB_CFG<7>	NB_CFG<7> - @mlb_noldo_lib.MLB_NOLDO	14C6 20C7
NB_CFG<8>	NB_CFG<8> - @mlb_noldo_lib.MLB_NOLDO	6D4 14C6
	TP_NB_CFG8 - @mlb_noldo_lib.MLB_NOLDO	6D3
NB_CFG<9>	NB_CFG<9> - @mlb_noldo_lib.MLB_NOLDO	14C6 20B7
NB_CFG<10>	NB_CFG<10> - @mlb_noldo_lib.MLB_NOLDO	6D4 14C6
	TP_NB_CFG10 - @mlb_noldo_lib.MLB_NOLDO	6D3
NB_CFG<11>	NB_CFG<11> - @mlb_noldo_lib.MLB_NOLDO	6D4 14C6
	TP_NB_CFG11 - @mlb_noldo_lib.MLB_NOLDO	6D3
NB_CFG<12>	NB_CFG<12> - @mlb_noldo_lib.MLB_NOLDO	6D4 14C6
	TP_NB_CFG12 - @mlb_noldo_lib.MLB_NOLDO	6D3
NB_CFG<13>	NB_CFG<13> - @mlb_noldo_lib.MLB_NOLDO	6D4 14C6
	TP_NB_CFG13 - @mlb_noldo_lib.MLB_NOLDO	6D3
NB_CFG<14>	NB_CFG<14> - @mlb_noldo_lib.MLB_NOLDO	6D4 14C6
	TP_NB_CFG14 - @mlb_noldo_lib.MLB_NOLDO	6D3
NB_CFG<15>	NB_CFG<15> - @mlb_noldo_lib.MLB_NOLDO	6D4 14C6
	TP_NB_CFG15 - @mlb_noldo_lib.MLB_NOLDO	6D3
NB_CFG<16>	NB_CFG<16> - @mlb_noldo_lib.MLB_NOLDO	14C6 20C5
NB_CFG<17>	NB_CFG<17> - @mlb_noldo_lib.MLB_NOLDO	6D4 14C6
	TP_NB_CFG17 - @mlb_noldo_lib.MLB_NOLDO	6D3
NB_CFG<18>	NB_CFG<18> - @mlb_noldo_lib.MLB_NOLDO	14C6 20B5
NB_CFG<19>	NB_CFG<19> - @mlb_noldo_lib.MLB_NOLDO	14C6 20B5
NB_CFG<20>	NB_CFG<20> - @mlb_noldo_lib.MLB_NOLDO	14B6 20A5
NB_CLK100M_GCLKIN_N	NB_CLK100M_GCLKIN_N - @mlb_noldo_lib.MLB_NOLDO	14C4 33B2 33C4
NB_CLK100M_GCLKIN_P	NB_CLK100M_GCLKIN_P - @mlb_noldo_lib.MLB_NOLDO	14C4 33C2 33C4
NB_CLK_DREFCLKIN_N	NB_CLK_DREFCLKIN_N - @mlb_noldo_lib.MLB_NOLDO	14C4 33B3 33C2
NB_CLK_DREFCLKIN_P	NB_CLK_DREFCLKIN_P - @mlb_noldo_lib.MLB_NOLDO	14C4 33B3 33C2
NB_CLK_DREFSSCLKIN_N	NB_CLK_DREFSSCLKIN_N - @mlb_noldo_lib.MLB_NOLDO	14C4 33A4 33C2
NB_CLK_DREFSSCLKIN_P	NB_CLK_DREFSSCLKIN_P - @mlb_noldo_lib.MLB_NOLDO	14B4 33A3 33C2
NB_FSB_VREF	NB_FSB_VREF - @mlb_noldo_lib.MLB_NOLDO	12C4
NB_FSB_XRCOMP	NB_FSB_XRCOMP - @mlb_noldo_lib.MLB_NOLDO	12A6
NB_FSB_XSCOMP	NB_FSB_XSCOMP - @mlb_noldo_lib.MLB_NOLDO	12A6
NB_FSB_XSWING	NB_FSB_XSWING - @mlb_noldo_lib.MLB_NOLDO	12A6
NB_FSB_YRCOMP	NB_FSB_YRCOMP - @mlb_noldo_lib.MLB_NOLDO	12A6
NB_FSB_YSCOMP	NB_FSB_YSCOMP - @mlb_noldo_lib.MLB_NOLDO	12A6
NB_FSB_YSWING	NB_FSB_YSWING - @mlb_noldo_lib.MLB_NOLDO	12A6
NB_ISENSE	NB_ISENSE - @mlb_noldo_lib.MLB_NOLDO	62A6
NB_ISENSE_R1_N	NB_ISENSE_R1_N - @mlb_noldo_lib.MLB_NOLDO	62A7
NB_ISENSE_R1_P	NB_ISENSE_R1_P - @mlb_noldo_lib.MLB_NOLDO	62A7
NB_ISENSE_R2	NB_ISENSE_R2 - @mlb_noldo_lib.MLB_NOLDO	62A6
NB_ISENSE_VCC	NB_ISENSE_VCC - @mlb_noldo_lib.MLB_NOLDO	62A6
NB_RIGHT_DOWN_SCREW	NB_RIGHT_DOWN_SCREW - @mlb_noldo_lib.MLB_NOLDO	6A8
NB_RST_IN_L_R	NB_RST_IN_L_R - @mlb_noldo_lib.MLB_NOLDO	14B6
NB_SB_SYNC_L	NB_SB_SYNC_L - @mlb_noldo_lib.MLB_NOLDO	14B6 22A6
NB_TV_DCONSEL0	NB_TV_DCONSEL0 - @mlb_noldo_lib.MLB_NOLDO	14D6
NB_TV_DCONSEL1	NB_TV_DCONSEL1 - @mlb_noldo_lib.MLB_NOLDO	14C6
NB_VCCSM_LF1	NB_VCCSM_LF1 - @mlb_noldo_lib.MLB_NOLDO	16B4
NB_VCCSM_LF2	NB_VCCSM_LF2 - @mlb_noldo_lib.MLB_NOLDO	16B4
NB_VCCSM_LF4	NB_VCCSM_LF4 - @mlb_noldo_lib.MLB_NOLDO	16B8
NB_VCCSM_LF5	NB_VCCSM_LF5 - @mlb_noldo_lib.MLB_NOLDO	16B8
NB_VTTLF_CAP1	NB_VTTLF_CAP1 - @mlb_noldo_lib.MLB_NOLDO	17A4
NB_VTTLF_CAP2	NB_VTTLF_CAP2 - @mlb_noldo_lib.MLB_NOLDO	17A4
NB_VTTLF_CAP3	NB_VTTLF_CAP3 - @mlb_noldo_lib.MLB_NOLDO	17B4
ODD_PWR_EN_SLOW_START	ODD_PWR_EN_SLOW_START - @mlb_noldo_lib.MLB_NOLDO	34C7
ODD_PWR_EN_SLOW_START_L	ODD_PWR_EN_SLOW_START_L - @mlb_noldo_lib.MLB_NOLDO	34C6
ODD_PWR_EN_SLOW_START_L_R	ODD_PWR_EN_SLOW_START_L_R - @mlb_noldo_lib.MLB_NOLDO	34C5
ONEWIRE_DCIN_DIV	ONEWIRE_DCIN_DIV - @mlb_noldo_lib.MLB_NOLDO	65C5
ONEWIRE_EN	ONEWIRE_EN - @mlb_noldo_lib.MLB_NOLDO	65C7
ONEWIRE_ESD	ONEWIRE_ESD - @mlb_noldo_lib.MLB_NOLDO	65C5
ONEWIRE_OV	ONEWIRE_OV - @mlb_noldo_lib.MLB_NOLDO	65C6
ONEWIRE_PU_EN	ONEWIRE_PU_EN - @mlb_noldo_lib.MLB_NOLDO	65B7
ONEWIRE_PU_EN_L	ONEWIRE_PU_EN_L - @mlb_noldo_lib.MLB_NOLDO	65C8
ONEWIRE_PWR_EN_L	ONEWIRE_PWR_EN_L - @mlb_noldo_lib.MLB_NOLDO	65C7
ONEWIRE_PWR_EN_L_DIV	ONEWIRE_PWR_EN_L_DIV - @mlb_noldo_lib.MLB_NOLDO	65C6
P0V52_SMC_LSREF	P0V52_SMC_LSREF - @mlb_noldo_lib.MLB_NOLDO	46D3
P1V8S0_EN_L_RC	P1V8S0_EN_L_RC - @mlb_noldo_lib.MLB_NOLDO	63A5
P3V3S0_EN_RC	P3V3S0_EN_RC - @mlb_noldo_lib.MLB_NOLDO	63B5
P3V3S3_EN_L_RC	P3V3S3_EN_L_RC - @mlb_noldo_lib.MLB_NOLDO	63C5
P3V42G3H5_BOOST	P3V42G3H5_BOOST - @mlb_noldo_lib.MLB_NOLDO	63D2
P3V42G3H_FB	P3V42G3H_FB - @mlb_noldo_lib.MLB_NOLDO	5D7 63D2
P5VS0_EN_RC	P5VS0_EN_RC - @mlb_noldo_lib.MLB_NOLDO	63C5
P5VS3_EN_L_RC	P5VS3_EN_L_RC - @mlb_noldo_lib.MLB_NOLDO	63D5
PATA_PWR_EN_L	PATA_PWR_EN_L - @mlb_noldo_lib.MLB_NOLDO	23B3 23C3
PBUS_S0_SMC_VSENSE	PBUS_S0_SMC_VSENSE - @mlb_noldo_lib.MLB_NOLDO	48C6
PBUS_SMC_VSENSE_EN	PBUS_SMC_VSENSE_EN - @mlb_noldo_lib.MLB_NOLDO	48C8
PBUS_SMC_VSENSE_EN_L	PBUS_SMC_VSENSE_EN_L - @mlb_noldo_lib.MLB_NOLDO	48C7
PCIE_A_D2R_C_N	PCIE_A_D2R_C_N - @mlb_noldo_lib.MLB_NOLDO	36D6
PCIE_A_D2R_C_P	PCIE_A_D2R_C_P - @mlb_noldo_lib.MLB_NOLDO	36D6
PCIE_A_D2R_N	PCIE_A_D2R_N - @mlb_noldo_lib.MLB_NOLDO	22D4 36D5
PCIE_A_D2R_P	PCIE_A_D2R_P - @mlb_noldo_lib.MLB_NOLDO	22D4 36D5
PCIE_A_R2D_C_N	PCIE_A_R2D_C_N - @mlb_noldo_lib.MLB_NOLDO	22D4 36C5
PCIE_A_R2D_C_P	PCIE_A_R2D_C_P - @mlb_noldo_lib.MLB_NOLDO	22D4 36C5
PCIE_A_R2D_N	PCIE_A_R2D_N - @mlb_noldo_lib.MLB_NOLDO	36C6
PCIE_A_R2D_P	PCIE_A_R2D_P - @mlb_noldo_lib.MLB_NOLDO	36C6
PCIE_B_D2R_N	PCIE_B_D2R_N - @mlb_noldo_lib.MLB_NOLDO	22D4 43C7
PCIE_B_D2R_P	PCIE_B_D2R_P - @mlb_noldo_lib.MLB_NOLDO	22D4 43C7
PCIE_B_R2D_C_N	PCIE_B_R2D_C_N - @mlb_noldo_lib.MLB_NOLDO	22D4 43B7
PCIE_B_R2D_C_P	PCIE_B_R2D_C_P - @mlb_noldo_lib.MLB_NOLDO	22D4 43B7
PCIE_B_R2D_N	PCIE_B_R2D_N - @mlb_noldo_lib.MLB_NOLDO	43B6
PCIE_B_R2D_P	PCIE_B_R2D_P - @mlb_noldo_lib.MLB_NOLDO	43B6
PCIE_C_D2R_N	PCIE_C_D2R_N - @mlb_noldo_lib.MLB_NOLDO	6C4 22D4
	PCIE_C_D2R_N_SPN - @mlb_noldo_lib.MLB_NOLDO	6C3
PCIE_C_D2R_P	PCIE_C_D2R_P - @mlb_noldo_lib.MLB_NOLDO	6C4 22D4
	PCIE_C_D2R_P_SPN - @mlb_noldo_lib.MLB_NOLDO	6C3
PCIE_C_R2D_C_N	PCIE_C_R2D_C_N - @mlb_noldo_lib.MLB_NOLDO	6C4 22D4
	PCIE_C_R2D_C_N_SPN - @mlb_noldo_lib.MLB_NOLDO	6C3
PCIE_C_R2D_C_P	PCIE_C_R2D_C_P - @mlb_noldo_lib.MLB_NOLDO	6C4 22D4
	PCIE_C_R2D_C_P_SPN - @mlb_noldo_lib.MLB_NOLDO	6C3
PCIE_D_D2R_N	PCIE_D_D2R_N - @mlb_noldo_lib.MLB_NOLDO	6C4 22D4
	PCIE_D_D2R_N_SPN - @mlb_noldo_lib.MLB_NOLDO	6C3
PCIE_D_D2R_P	PCIE_D_D2R_P - @mlb_noldo_lib.MLB_NOLDO	6C4 22D4
	PCIE_D_D2R_P_SPN - @mlb_noldo_lib.MLB_NOLDO	6C3
PCIE_D_R2D_C_N	PCIE_D_R2D_C_N - @mlb_noldo_lib.MLB_NOLDO	6C4 22D4
	PCIE_D_R2D_C_N_SPN - @mlb_noldo_lib.MLB_NOLDO	6C3
PCIE_D_R2D_C_P	PCIE_D_R2D_C_P - @mlb_noldo_lib.MLB_NOLDO	6C4 22D4
	PCIE_D_R2D_C_P_SPN - @mlb_noldo_lib.MLB_NOLDO	6C3
PCIE_E_D2R_N	PCIE_E_D2R_N - @mlb_noldo_lib.MLB_NOLDO	6C4 22C4
	PCIE_E_D2R_N_SPN - @mlb_noldo_lib.MLB_NOLDO	6C3
PCIE_E_D2R_P	PCIE_E_D2R_P - @mlb_noldo_lib.MLB_NOLDO	6C4 22C4
	PCIE_E_D2R_P_SPN - @mlb_noldo_lib.MLB_NOLDO	6C3
PCIE_E_R2D_C_N	PCIE_E_R2D_C_N - @mlb_noldo_lib.MLB_NOLDO	6C4 22C4
	PCIE_E_R2D_C_N_SPN - @mlb_noldo_lib.MLB_NOLDO	6C3
PCIE_E_R2D_C_P	PCIE_E_R2D_C_P - @mlb_noldo_lib.MLB_NOLDO	6C4 22C4
	PCIE_E_R2D_C_P_SPN - @mlb_noldo_lib.MLB_NOLDO	6C3
PCIE_F_D2R_N	PCIE_F_D2R_N - @mlb_noldo_lib.MLB_NOLDO	6C4 22C4
	PCIE_F_D2R_N_SPN - @mlb_noldo_lib.MLB_NOLDO	6C3
PCIE_F_D2R_P	PCIE_F_D2R_P - @mlb_noldo_lib.MLB_NOLDO	6C4 22C4
	PCIE_F_D2R_P_SPN - @mlb_noldo_lib.MLB_NOLDO	6C3
PCIE_F_R2D_C_N	PCIE_F_R2D_C_N - @mlb_noldo_lib.MLB_NOLDO	6C4 22C4
	PCIE_F_R2D_C_N_SPN - @mlb_noldo_lib.MLB_NOLDO	6C3
PCIE_F_R2D_C_P	PCIE_F_R2D_C_P - @mlb_noldo_lib.MLB_NOLDO	6B4 22C4
	PCIE_F_R2D_C_P_SPN - @mlb_noldo_lib.MLB_NOLDO	6B3
PCIE_WAKE_L	PCIE_WAKE_L - @mlb_noldo_lib.MLB_NOLDO	23C8 36C6 43C6
PCI_AD<0>	PCI_AD<0> - @mlb_noldo_lib.MLB_NOLDO	22B7 38C5
PCI_AD<1>	PCI_AD<1> - @mlb_noldo_lib.MLB_NOLDO	22B7 38C5
PCI_AD<2>	PCI_AD<2> - @mlb_noldo_lib.MLB_NOLDO	22B7 38C5
PCI_AD<3>	PCI_AD<3> - @mlb_noldo_lib.MLB_NOLDO	22B7 38C5
PCI_AD<4>	PCI_AD<4> - @mlb_noldo_lib.MLB_NOLDO	22B7 38C5
PCI_AD<5>	PCI_AD<5> - @mlb_noldo_lib.MLB_NOLDO	22B7 38C5
PCI_AD<6>	PCI_AD<6> - @mlb_noldo_lib.MLB_NOLDO	22B7 38C5
PCI_AD<7>	PCI_AD<7> - @mlb_noldo_lib.MLB_NOLDO	22B7 38C5
PCI_AD<8>	PCI_AD<8> - @mlb_noldo_lib.MLB_NOLDO	22B7 38C5
PCI_AD<9>	PCI_AD<9> - @mlb_noldo_lib.MLB_NOLDO	22B7 38C5
PCI_AD<10>	PCI_AD<10> - @mlb_noldo_lib.MLB_NOLDO	22B7 38C5
PCI_AD<11>	PCI_AD<11> - @mlb_noldo_lib.MLB_NOLDO	22B7 38C5
PCI_AD<12>	PCI_AD<12> - @mlb_noldo_lib.MLB_NOLDO	22B7 38B5
PCI_AD<13>	PCI_AD<13> - @mlb_noldo_lib.MLB_NOLDO	22B7 38B5
PCI_AD<14>	PCI_AD<14> - @mlb_noldo_lib.MLB_NOLDO	22B7 38B5
PCI_AD<15>	PCI_AD<15> - @mlb_noldo_lib.MLB_NOLDO	22B7 38B5
PCI_AD<16>	PCI_AD<16> - @mlb_noldo_lib.MLB_NOLDO	22B7 38B5
PCI_AD<17>	PCI_AD<17> - @mlb_noldo_lib.MLB_NOLDO	22B7 38B5
PCI_AD<18>	PCI_AD<18> - @mlb_noldo_lib.MLB_NOLDO	22B7 38B5
PCI_AD<19>	PCI_AD<19> - @mlb_noldo_lib.MLB_NOLDO	22A7 38B6
PCI_AD<20>	PCI_AD<20> - @mlb_noldo_lib.MLB_NOLDO	22A7 38B5
PCI_AD<21>	PCI_AD<21> - @mlb_noldo_lib.MLB_NOLDO	22A7 38B5
PCI_AD<22>	PCI_AD<22> - @mlb_noldo_lib.MLB_NOLDO	22A7 38B5
PCI_AD<23>	PCI_AD<23> - @mlb_noldo_lib.MLB_NOLDO	22A7 38B5
PCI_AD<24>	PCI_AD<24> - @mlb_noldo_lib.MLB_NOLDO	22A7 38B5
PCI_AD<25>	PCI_AD<25> - @mlb_noldo_lib.MLB_NOLDO	22A7 38B5
PCI_AD<26>	PCI_AD<26> - @mlb_noldo_lib.MLB_NOLDO	22A7 38B5
PCI_AD<27>	PCI_AD<27> - @mlb_noldo_lib.MLB_NOLDO	22A7 38B5
PCI_AD<28>	PCI_AD<28> - @mlb_noldo_lib.MLB_NOLDO	22A7 38B5
PCI_AD<29>	PCI_AD<29> - @mlb_noldo_lib.MLB_NOLDO	22A7 38B5
PCI_AD<30>	PCI_AD<30> - @mlb_noldo_lib.MLB_NOLDO	22A7 38B5
PCI_AD<31>	PCI_AD<31> - @mlb_noldo_lib.MLB_NOLDO	22A7 38B5
PCI_CLK_FW	PCI_CLK_FW - @mlb_noldo_lib.MLB_NOLDO	33D6 38A5
PCI_CLK_PORT80_LPC	PCI_CLK_PORT80_LPC - @mlb_noldo_lib.MLB_NOLDO	5C2 33D6 47C5
PCI_CLK_SB	PCI_CLK_SB - @mlb_noldo_lib.MLB_NOLDO	22A6 33D6
PCI_CLK_SMC	PCI_CLK_SMC - @mlb_noldo_lib.MLB_NOLDO	33D6 45C8
PCI_CLK_TPM	PCI_CLK_TPM - @mlb_noldo_lib.MLB_NOLDO	33D6 53C6
PCI_C_BE_L<0>	PCI_C_BE_L<0> - @mlb_noldo_lib.MLB_NOLDO	22B6 38B5
PCI_C_BE_L<1>	PCI_C_BE_L<1> - @mlb_noldo_lib.MLB_NOLDO	22B6 38B5
PCI_C_BE_L<2>	PCI_C_BE_L<2> - @mlb_noldo_lib.MLB_NOLDO	22B6 38B5
PCI_C_BE_L<3>	PCI_C_BE_L<3> - @mlb_noldo_lib.MLB_NOLDO	22B6 38B5
PCI_DEVSEL_L	PCI_DEVSEL_L - @mlb_noldo_lib.MLB_NOLDO	22A6 26D3 38A5
PCI_FRAME_L	PCI_FRAME_L - @mlb_noldo_lib.MLB_NOLDO	22A7 26D3 38A5
PCI_GNT3_L	PCI_GNT3_L - @mlb_noldo_lib.MLB_NOLDO	22B6 38A5
PCI_IRDY_L	PCI_IRDY_L - @mlb_noldo_lib.MLB_NOLDO	22A6 26D3 38A5
PCI_LOCK_L	PCI_LOCK_L - @mlb_noldo_lib.MLB_NOLDO	22A6 26D3
PCI_PAR	PCI_PAR - @mlb_noldo_lib.MLB_NOLDO	22A6 38B5
PCI_PERR_L	PCI_PERR_L - @mlb_noldo_lib.MLB_NOLDO	22A6 26D3 38A5
PCI_PME_FW_L	PCI_PME_FW_L - @mlb_noldo_lib.MLB_NOLDO	22B5 38A5
PCI_REQ0_L	PCI_REQ0_L - @mlb_noldo_lib.MLB_NOLDO	22B6 26C3
PCI_REQ1_L	PCI_REQ1_L - @mlb_noldo_lib.MLB_NOLDO	22B6 26C3
PCI_REQ2_L	PCI_REQ2_L - @mlb_noldo_lib.MLB_NOLDO	22B6 26C3
PCI_REQ3_L	PCI_REQ3_L - @mlb_noldo_lib.MLB_NOLDO	22B6 26C3 38A5
PCI_RST_L	PCI_RST_L - @mlb_noldo_lib.MLB_NOLDO	22A6 38A6
PCI_SERR_L	PCI_SERR_L - @mlb_noldo_lib.MLB_NOLDO	22A6 26D3 38A5
PCI_STOP_L	PCI_STOP_L - @mlb_noldo_lib.MLB_NOLDO	22A6 26D3 38A5
PCI_TRDY_L	PCI_TRDY_L - @mlb_noldo_lib.MLB_NOLDO	22A6 26D3 38A5
PEG_COMP	PEG_COMP - @mlb_noldo_lib.MLB_NOLDO	13D3

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	PEG_D2R_N0_SPN - @mlb_noldo_lib.MLB_NOLDO	6D5
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PEG_D2R_N<2>	PEG_D2R_N<2> - @mlb_noldo_lib.MLB_NOLDO	6D6 13D3
	PEG_D2R_N2_SPN - @mlb_noldo_lib.MLB_NOLDO	6D5
PEG_D2R_N<3>	PEG_D2R_N<3> - @mlb_noldo_lib.MLB_NOLDO	6C6 13D3
	PEG_D2R_N3_SPN - @mlb_noldo_lib.MLB_NOLDO	6C5
PEG_D2R_N<4>	PEG_D2R_N<4> - @mlb_noldo_lib.MLB_NOLDO	6C6 13D3
	PEG_D2R_N4_SPN - @mlb_noldo_lib.MLB_NOLDO	6C5
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	PEG_D2R_N5_SPN - @mlb_noldo_lib.MLB_NOLDO	6C5
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	PEG_D2R_N6_SPN - @mlb_noldo_lib.MLB_NOLDO	6C5
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	PEG_D2R_N7_SPN - @mlb_noldo_lib.MLB_NOLDO	6C5
PEG_D2R_N<8>	PEG_D2R_N<8> - @mlb_noldo_lib.MLB_NOLDO	6C6 13D3
	PEG_D2R_N8_SPN - @mlb_noldo_lib.MLB_NOLDO	6C5
PEG_D2R_N<9>	PEG_D2R_N<9> - @mlb_noldo_lib.MLB_NOLDO	6C6 13D3
	PEG_D2R_N9_SPN - @mlb_noldo_lib.MLB_NOLDO	6C5
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	PEG_D2R_N11_SPN - @mlb_noldo_lib.MLB_NOLDO	6C5
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	PEG_D2R_N13_SPN - @mlb_noldo_lib.MLB_NOLDO	6C5
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	PEG_D2R_P15_SPN - @mlb_noldo_lib.MLB_NOLDO	6B5

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	PEG_R2D_C_P15_SPN - @mlb_noldo_lib.MLB_NOLDO	6B5
PLT_RST_BUF_L	PLT_RST_BUF_L - @mlb_noldo_lib.MLB_NOLDO	26B3
PLT_RST_GATED_L	PLT_RST_GATED_L - @mlb_noldo_lib.MLB_NOLDO	26A3
PLT_RST_L	PLT_RST_L - @mlb_noldo_lib.MLB_NOLDO	22A6 26C3
	NB_RST_IN_L - @mlb_noldo_lib.MLB_NOLDO	14B7 26C1
PM_BATLOW_L	PM_BATLOW_L - @mlb_noldo_lib.MLB_NOLDO	23C1 45B8
PM_BMBUSY_L	PM_BMBUSY_L - @mlb_noldo_lib.MLB_NOLDO	14B6 23C5

PM_CLKRUN_L	PM_CLKRUN_L - @mlb_noldo_lib.MLB_NOLDO	5C2 23C8 38A5 45D5 47C6 53C6
PM_DPRSLPVR	PM_DPRSLPVR - @mlb_noldo_lib.MLB_NOLDO	14B7 23C3 58D8
PM_DPRSLPVR_R	PM_DPRSLPVR_R - @mlb_noldo_lib.MLB_NOLDO	14B6
PM_EXTTS_L<0>	PM_EXTTS_L<0> - @mlb_noldo_lib.MLB_NOLDO	6B2 14B7 45B8
	DIMM_OVERTEMP_L - @mlb_noldo_lib.MLB_NOLDO	6B1 28C4 29C4
PM_LAN_ENABLE	PM_LAN_ENABLE - @mlb_noldo_lib.MLB_NOLDO	23C3 45D8
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PM_RI_L	PM_RI_L - @mlb_noldo_lib.MLB_NOLDO	23D5
PM_RSMRST_L	PM_RSMRST_L - @mlb_noldo_lib.MLB_NOLDO	23C1 45D8
PM_SB_PWROK	PM_SB_PWROK - @mlb_noldo_lib.MLB_NOLDO	23C3 26A6
PM_SLP_S3	PM_SLP_S3 - @mlb_noldo_lib.MLB_NOLDO	48C8 63B7
PM_SLP_S3BATT	PM_SLP_S3BATT - @mlb_noldo_lib.MLB_NOLDO	60C7
PM_SLP_S3_L	PM_SLP_S3_L - @mlb_noldo_lib.MLB_NOLDO	23C3 45C5 63A7 63A7 63B8
PM_SLP_S3_LS12V6	PM_SLP_S3_LS12V6 - @mlb_noldo_lib.MLB_NOLDO	63B7
PM_SLP_S4_L	PM_SLP_S4_L - @mlb_noldo_lib.MLB_NOLDO	23C3 45C5 60C8 61B8 63D6
PM_SLP_S5_L	PM_SLP_S5_L - @mlb_noldo_lib.MLB_NOLDO	23C3 45C5 46D3
PM_STPCPU_L	PM_STPCPU_L - @mlb_noldo_lib.MLB_NOLDO	23C8 32C4
PM_STPPCI_L	PM_STPPCI_L - @mlb_noldo_lib.MLB_NOLDO	23C8 32C4
PM_SUS_STAT_L	PM_SUS_STAT_L - @mlb_noldo_lib.MLB_NOLDO	5C2 23C5 45D5 46D3 47C5 53C6
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	XDP_DBRESET_L_R - @mlb_noldo_lib.MLB_NOLDO	26C6
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	=PP1V2_S3_REG - @mlb_noldo_lib.MLB_NOLDO	60B2 63B5 64C6
	=PP1V2_S3_ENET - @mlb_noldo_lib.MLB_NOLDO	36A8 36D7 64C3
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	=PP1V2_S3_ENET - @mlb_noldo_lib.MLB_NOLDO	36A8 36D7 64C3
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PP1V5_S0_NB_QTVDAC	PP1V5_S0_NB_QTVDAC - @mlb_noldo_lib.MLB_NOLDO	19A7
PP1V5_S0_NB_VCC3G	PP1V5_S0_NB_VCC3G - @mlb_noldo_lib.MLB_NOLDO	17D6 19B2
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PP1V5_S0_SB_VCC1_5_B	PP1V5_S0_SB_VCC1_5_B - @mlb_noldo_lib.MLB_NOLDO	22C1 24D5 25B6
PP1V5_S0_SB_VCCDMIPLL	PP1V5_S0_SB_VCCDMIPLL - @mlb_noldo_lib.MLB_NOLDO	24B5 25A5
PP1V5_S0_SB_VCCDMIPLL_F	PP1V5_S0_SB_VCCDMIPLL_F - @mlb_noldo_lib.MLB_NOLDO	25A7
PP1V8_S0	PP1V8_S0 - @mlb_noldo_lib.MLB_NOLDO	5B2 64C7
	=PP1V8_S0_TMDS - @mlb_noldo_lib.MLB_NOLDO	64B6 68D6 68D6
	=PP1V8_S0_FET - @mlb_noldo_lib.MLB_NOLDO	63B3 64B8
	=PP1V8_S0_TMDS - @mlb_noldo_lib.MLB_NOLDO	64B6 68D6 68D6
	=PP1V8_S0_FET - @mlb_noldo_lib.MLB_NOLDO	63B3 64B8
PP1V8_S0_ANALOG_SDVO_F	PP1V8_S0_ANALOG_SDVO_F - @mlb_noldo_lib.MLB_NOLDO	68C4 68D3
PP1V8_S0_TMDS_F	PP1V8_S0_TMDS_F - @mlb_noldo_lib.MLB_NOLDO	68B4 68D3
PP1V8_S3	PP1V8_S3 - @mlb_noldo_lib.MLB_NOLDO	5A2 64C4
	=PP1V8_S3_1V2S3 - @mlb_noldo_lib.MLB_NOLDO	60B5 64C3
	=PP1V8_S3_MEM_NB_SENSE - @mlb_noldo_lib.MLB_NOLDO	61C4 64C3
	=PP1V8_S3_MEMVTT - @mlb_noldo_lib.MLB_NOLDO	31C6 64C3
	=PP1V8_S3_P1V8S0 - @mlb_noldo_lib.MLB_NOLDO	63A5 64C3
	=PP1V8_S3_REG - @mlb_noldo_lib.MLB_NOLDO	61B1 64C6
	=PP1V8_S3_MEM - @mlb_noldo_lib.MLB_NOLDO	19C7 19C8 28B2 28D4 28D6 29B2 29D4 29D6 64C3
	=PP1V8_S3_REG - @mlb_noldo_lib.MLB_NOLDO	61B1 64C6
	=PP1V8_S3_P1V8S0 - @mlb_noldo_lib.MLB_NOLDO	63A5 64C3

	=PP1V8_S3_MEM_NB_SENSE - @mlb_noldo_lib.MLB_NOLDO	61C4 64C3
	=PP1V8_S3_MEMVTT - @mlb_noldo_lib.MLB_NOLDO	31C6 64C3
	=PP1V8_S3_MEM - @mlb_noldo_lib.MLB_NOLDO	19C7 19C8 28B2 28D4 28D6 29B2 29D4 29D6 64C3
	=PP1V8_S3_1V2S3 - @mlb_noldo_lib.MLB_NOLDO	60B5 64C3
PP1V8_S3_MEMVTT_VDDQ	PP1V8_S3_MEMVTT_VDDQ - @mlb_noldo_lib.MLB_NOLDO	31C5
PP1V8_S3_R	PP1V8_S3_R - @mlb_noldo_lib.MLB_NOLDO	61B2
PP2V5_S0_NB_CRTDAC_F	PP2V5_S0_NB_CRTDAC_F - @mlb_noldo_lib.MLB_NOLDO	19D3
PP2V5_S0_NB_CRTDAC_F	PP2V5_S0_NB_CRTDAC_FOLLOW - @mlb_noldo_lib.MLB_NOLDO	19D3
OLLOW		
PP2V5_S0_NB_VCCA_CRT	PP2V5_S0_NB_VCCA_CRTDAC - @mlb_noldo_lib.MLB_NOLDO	17D6 19D1
DAC		
PP2V5_S3	PP2V5_S3 - @mlb_noldo_lib.MLB_NOLDO	5A2 64C4
	=PP2V5_S3_REG - @mlb_noldo_lib.MLB_NOLDO	60C2 64C6
	=PP2V5_S3_ENET - @mlb_noldo_lib.MLB_NOLDO	36D3 64C3
	=PP2V5_S3_REG - @mlb_noldo_lib.MLB_NOLDO	60C2 64C6
	=PP2V5_S3_ENET - @mlb_noldo_lib.MLB_NOLDO	36D3 64C3
PP2V5_S3_ENET_AVDD	PP2V5_S3_ENET_AVDD - @mlb_noldo_lib.MLB_NOLDO	36D5 37D8
PP2V5_S3_ENET_AVDD_F	PP2V5_S3_ENET_AVDD_F - @mlb_noldo_lib.MLB_NOLDO	37D7
PP3V3_AUDIO_CODEC	PP3V3_AUDIO_CODEC - @mlb_noldo_lib.MLB_NOLDO	54D6
PP3V3_AVREF_SMC	PP3V3_AVREF_SMC - @mlb_noldo_lib.MLB_NOLDO	45D2 46C6
PP3V3_G3C_SB_RTC_D	PP3V3_G3C_SB_RTC_D - @mlb_noldo_lib.MLB_NOLDO	26D4
	PP3V3_S5_SB_RTC - @mlb_noldo_lib.MLB_NOLDO	21D6 24B3 25A4 26D3
PP3V3_LCDVDD_SW	PP3V3_LCDVDD_SW - @mlb_noldo_lib.MLB_NOLDO	67C5
PP3V3_LCDVDD_SW_F	PP3V3_LCDVDD_SW_F - @mlb_noldo_lib.MLB_NOLDO	67B2
PP3V3_S0_ANALOG_SDVO_F	PP3V3_S0_ANALOG_SDVO_F - @mlb_noldo_lib.MLB_NOLDO	68C4 68D6
PP3V3_S0_ANALOG_TMDS_F	PP3V3_S0_ANALOG_TMDS_F - @mlb_noldo_lib.MLB_NOLDO	68B1 68B4 68D6
PP3V3_S0_AUDIO_F	PP3V3_S0_AUDIO_F - @mlb_noldo_lib.MLB_NOLDO	57B3 57C8 57C8 57D8
PP3V3_S0_AUDIO_SPDIF	PP3V3_S0_AUDIO_SPDIF - @mlb_noldo_lib.MLB_NOLDO	56B8 56D8
PP3V3_S0_CK410_VDD48	PP3V3_S0_CK410_VDD48 - @mlb_noldo_lib.MLB_NOLDO	32D5
PP3V3_S0_CK410_VDDA	PP3V3_S0_CK410_VDDA - @mlb_noldo_lib.MLB_NOLDO	32C7
PP3V3_S0_CK410_VDD_C	PP3V3_S0_CK410_VDD_CPU_SRC - @mlb_noldo_lib.MLB_NOLDO	32D6
PU_SRC		
PP3V3_S0_CK410_VDD_P	PP3V3_S0_CK410_VDD_PCI - @mlb_noldo_lib.MLB_NOLDO	32D5
CI		
PP3V3_S0_CK410_VDD_R	PP3V3_S0_CK410_VDD_REF - @mlb_noldo_lib.MLB_NOLDO	32C5
EF		
PP3V3_S0_IMVP6_3V3	PP3V3_S0_IMVP6_3V3 - @mlb_noldo_lib.MLB_NOLDO	58D7
PP3V3_S0_LCD_F	PP3V3_S0_LCD_F - @mlb_noldo_lib.MLB_NOLDO	67B3
PP3V3_S0_NB_TVDAC	PP3V3_S0_NB_TVDAC - @mlb_noldo_lib.MLB_NOLDO	19C3
PP3V3_S0_NB_TVDAC_F	PP3V3_S0_NB_TVDAC_F - @mlb_noldo_lib.MLB_NOLDO	19C2
PP3V3_S0_NB_TVDAC_FO	PP3V3_S0_NB_TVDAC_FOLLOW - @mlb_noldo_lib.MLB_NOLDO	19C3
LLOW		
PP3V3_S0_NB_VCCA_TVB	PP3V3_S0_NB_VCCA_TVBG - @mlb_noldo_lib.MLB_NOLDO	17C6 19B1
G		
PP3V3_S0_NB_VCCA_TVD	PP3V3_S0_NB_VCCA_TVDACA - @mlb_noldo_lib.MLB_NOLDO	17C6 19C1
ACA		
PP3V3_S0_NB_VCCA_TVD	PP3V3_S0_NB_VCCA_TVDACB - @mlb_noldo_lib.MLB_NOLDO	17C6 19B1
ACB		
PP3V3_S0_NB_VCCA_TVD	PP3V3_S0_NB_VCCA_TVDACC - @mlb_noldo_lib.MLB_NOLDO	17C6 19B1
ACC		
PP3V3_S0_PVCC1_TMDS_F	PP3V3_S0_PVCC1_TMDS_F - @mlb_noldo_lib.MLB_NOLDO	68C4 68C6
PP3V3_S0_PVCC2_TMDS_F	PP3V3_S0_PVCC2_TMDS_F - @mlb_noldo_lib.MLB_NOLDO	68C4 68C7
PP3V3_S0_TPM_3VSB	PP3V3_S0_TPM_3VSB - @mlb_noldo_lib.MLB_NOLDO	53C4
PP3V3_S3	PP3V3_S3 - @mlb_noldo_lib.MLB_NOLDO	5A2 64B4
	=PP3V3_S3_PDCISENS - @mlb_noldo_lib.MLB_NOLDO	61C1 64B3
	=PP3V3_S3_FW - @mlb_noldo_lib.MLB_NOLDO	38D5 64B3
	=PP3V3_S3_AIRPORT_AUX - @mlb_noldo_lib.MLB_NOLDO	43C3 64B3
	=PP3V3_S3_RSTGATE - @mlb_noldo_lib.MLB_NOLDO	26B3 64B3
	=PP3V3_S3_PCI - @mlb_noldo_lib.MLB_NOLDO	38C5 64B3
	=PP3V3_S3_SMS - @mlb_noldo_lib.MLB_NOLDO	46D5 52C7 64B3
	=PP3V3_S3_TPM - @mlb_noldo_lib.MLB_NOLDO	46D5 53C2 64B3
	=PP3V3_S3_2V5S3 - @mlb_noldo_lib.MLB_NOLDO	60C4 60D6 64B3
	=PP3V3_S3_ENET - @mlb_noldo_lib.MLB_NOLDO	36A5 36B4 36B5 36C8 36D6 36D8 64B3
	=PP3V3_S3_BT - @mlb_noldo_lib.MLB_NOLDO	44C6 64B3
	=PP3V3_S3_FFET - @mlb_noldo_lib.MLB_NOLDO	63D3 64B6
	=PP3V3_S3_SMBUS_SMC_RMT - @mlb_noldo_lib.MLB_NOLDO	27D3 64B3
	=PP3V3_S3_TPM - @mlb_noldo_lib.MLB_NOLDO	46D5 53C2 64B3
	=PP3V3_S3_SMS - @mlb_noldo_lib.MLB_NOLDO	46D5 52C7 64B3
	=PP3V3_S3_SMBUS_SMC_RMT - @mlb_noldo_lib.MLB_NOLDO	27D3 64B3
	=PP3V3_S3_RSTGATE - @mlb_noldo_lib.MLB_NOLDO	26B3 64B3
	=PP3V3_S3_PDCISENS - @mlb_noldo_lib.MLB_NOLDO	61C1 64B3
	=PP3V3_S3_PCI - @mlb_noldo_lib.MLB_NOLDO	38C5 64B3
	=PP3V3_S3_FW - @mlb_noldo_lib.MLB_NOLDO	38D5 64B3

	=PP3V3_S3_FET -	63D3 64B6
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S3_ENET -	36A5 36B4 36B5 36C8 36D6
	@mlb_noldo_lib.MLB_NOLDO	36D8 64B3
	=PP3V3_S3_BT -	44C6 64B3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S3_AIRPORT_AUX -	43C3 64B3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S3_2VSS3 -	60C4 60D6 64B3
	@mlb_noldo_lib.MLB_NOLDO	
PP3V3_S3_AIRPORT_AUX_CONN	PP3V3_S3_AIRPORT_AUX_CONN -	43C4
	@mlb_noldo_lib.MLB_NOLDO	
PP3V3_S3_BT_F	PP3V3_S3_BT_F -	44C4
	@mlb_noldo_lib.MLB_NOLDO	
PP3V3_S3_FW_AVDD	PP3V3_S3_FW_AVDD -	38D3
	@mlb_noldo_lib.MLB_NOLDO	
PP3V3_S3_ST_ACCEL	PP3V3_S3_ST_ACCEL -	52B6
	@mlb_noldo_lib.MLB_NOLDO	
PP3V3_S5	PP3V3_S5 - @mlb_noldo_lib.MLB_NOLDO	5A2 64A4
	=PP3V3_S5_LCD -	64A3 67C7
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S5_FWLATEVG -	39A8 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S5_P3V3S3 -	63D5 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S5_P3V3S0 -	63C5 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S5_ROM -	50D4 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S5_SB_3V3_1V5_VCCSUSHDA -	24C3 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S5_SB_IO -	22C6 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S5_SB_VCCSUS3_3_USB -	24B3 25D2 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S5_SB_PM -	11B5 23D1 26C5 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S5_SB_VCCSUS3_3 -	24A5 24B3 25B6 25D2 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S5_REG -	59B8 64A6
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S5_SB -	23A7 23B7 23D4 23D8 25C8
	@mlb_noldo_lib.MLB_NOLDO	64A3
	=PP3V3_S5_SB_USB -	22D8 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S5_SB_VCCSUS3_3_USB -	24B3 25D2 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S5_SB_VCCSUS3_3 -	24A5 24B3 25B6 25D2 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S5_SB_USB -	22D8 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S5_SB_PM -	11B5 23D1 26C5 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S5_SB_IO -	22C6 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S5_SB_3V3_1V5_VCCSUSHDA -	24C3 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S5_SB -	23A7 23B7 23D4 23D8 25C8
	@mlb_noldo_lib.MLB_NOLDO	64A3
	=PP3V3_S5_ROM -	50D4 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S5_REG -	59B8 64A6
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S5_P3V3S3 -	63D5 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S5_P3V3S0 -	63C5 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S5_LCD -	64A3 67C7
	@mlb_noldo_lib.MLB_NOLDO	
	=PP3V3_S5_FWLATEVG -	39A8 64A3
	@mlb_noldo_lib.MLB_NOLDO	
PP3V3_S5_FWLATEVG	PP3V3_S5_FWLATEVG -	39A6 39B5
	@mlb_noldo_lib.MLB_NOLDO	
PP3V3_S5_FWLATEVG_F	PP3V3_S5_FWLATEVG_F -	39A7
	@mlb_noldo_lib.MLB_NOLDO	
PP3V3_S5_REG_P	PP3V3_S5_REG_P -	59B8
	@mlb_noldo_lib.MLB_NOLDO	
PP3V42G3H_SW	PP3V42G3H_SW -	63D2
	@mlb_noldo_lib.MLB_NOLDO	
PP3V42_G3H_LIDSWITCH_F	PP3V42_G3H_LIDSWITCH_F -	65A7
	@mlb_noldo_lib.MLB_NOLDO	
PP3V42_G3H_SMC_CLK_F	PP3V42_G3H_SMC_CLK_F -	46A7
	@mlb_noldo_lib.MLB_NOLDO	
PP3V42_ONEWIRE	PP3V42_ONEWIRE -	65C7
	@mlb_noldo_lib.MLB_NOLDO	
PP4V5_AUDIO_ANALOG	PP4V5_AUDIO_ANALOG -	54A3 54D2 57C3 57C5
	@mlb_noldo_lib.MLB_NOLDO	
PP5V_INV	PP5V_INV - @mlb_noldo_lib.MLB_NOLDO	67D5
PP5V_INV_F	PP5V_INV_F -	5B1 67D3
	@mlb_noldo_lib.MLB_NOLDO	
PP5V_S0_AUDIO	PP5V_S0_AUDIO -	5D1
	@mlb_noldo_lib.MLB_NOLDO	
PP5V_S0_AUDIO_F	PP5V_S0_AUDIO_F -	55B8 55B8 55C4
	@mlb_noldo_lib.MLB_NOLDO	
PP5V_S0_AUDIO_PWR	PP5V_S0_AUDIO_PWR -	5D1
	@mlb_noldo_lib.MLB_NOLDO	
PP5V_S0_DVIPORT	PP5V_S0_DVIPORT -	68A6 69B4 69C3
	@mlb_noldo_lib.MLB_NOLDO	
PP5V_S0_DVIPORT_D	PP5V_S0_DVIPORT_D -	68A8 69C5
	@mlb_noldo_lib.MLB_NOLDO	
PP5V_S0_IMVP6_VDD	PP5V_S0_IMVP6_VDD -	58D7
	@mlb_noldo_lib.MLB_NOLDO	
PP5V_S0_SB_V5REF	PP5V_S0_SB_V5REF -	24D5 25D7
	@mlb_noldo_lib.MLB_NOLDO	
PP5V_S0_TMDS_FUSE	PP5V_S0_TMDS_FUSE -	69C5
	@mlb_noldo_lib.MLB_NOLDO	
PP5V_S3	PP5V_S3 - @mlb_noldo_lib.MLB_NOLDO	5A2 64B4
	=PP5V_S3_IR -	41D6 64B3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S3_GEYSER -	40D6 64B3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S3_CAMERA -	64B3 67A5
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S3_FET -	63D3 64B6
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S3_SYSLED -	35B6 46B4 64B3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S3_IR -	41D6 64B3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S3_GEYSER -	40D6 64B3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S3_FET -	63D3 64B6
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S3_CAMERA -	64B3 67A5
	@mlb_noldo_lib.MLB_NOLDO	
PP5V_S3_CAMERA_F	PP5V_S3_CAMERA_F -	67A3
	@mlb_noldo_lib.MLB_NOLDO	
PP5V_S3_GEYSER_F	PP5V_S3_GEYSER_F -	40D5
	@mlb_noldo_lib.MLB_NOLDO	
PP5V_S3_SYSLED_F	PP5V_S3_SYSLED_F -	35B8
	@mlb_noldo_lib.MLB_NOLDO	
PP5V_S3_USB2_EXTA	PP5V_S3_USB2_EXTA -	42C7
	@mlb_noldo_lib.MLB_NOLDO	
PP5V_S3_USB2_EXTA_F	PP5V_S3_USB2_EXTA_F -	42D2 42D3
	@mlb_noldo_lib.MLB_NOLDO	
PP5V_S3_USB2_EXTB	PP5V_S3_USB2_EXTB -	42C7
	@mlb_noldo_lib.MLB_NOLDO	
PP5V_S3_USB2_EXTB_F	PP5V_S3_USB2_EXTB_F -	42B2 42C3
	@mlb_noldo_lib.MLB_NOLDO	
PP5V_S5	PP5V_S5 - @mlb_noldo_lib.MLB_NOLDO	5A2 64A4
	=PP5V_S5_1V8S3 -	61C7 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S5_PATA -	34D6 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S5_USB -	42C8 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S5_P5VS0 -	63C5 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S5_PWRCTL -	63A7 63D6 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S5_REG -	59B1 64A6
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S5_P5VS3 -	63D5 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S5_SB -	25C8 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S5_USB -	42C8 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S5_SB -	25C8 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S5_REG -	59B1 64A6
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S5_PWRCTL -	63A7 63D6 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S5_PATA -	34D6 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S5_P5VS3 -	63D5 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S5_P5VS0 -	63C5 64A3
	@mlb_noldo_lib.MLB_NOLDO	
	=PP5V_S5_1V8S3 -	61C7 64A3
	@mlb_noldo_lib.MLB_NOLDO	
PP5V_S5_1V51V05S0_IN	PP5V_S5_1V51V05S0_INTVCC -	62A2 62C3 62C6
TVCC	@mlb_noldo_lib.MLB_NOLDO	
PP5V_S5_5V3V3S5_INTV	PP5V_S5_5V3V3S5_INTVCC -	59A2 59C3 59C6
CC	@mlb_noldo_lib.MLB_NOLDO	
PP5V_S5_REG_P	PP5V_S5_REG_P -	59A6 59B1
	@mlb_noldo_lib.MLB_NOLDO	
PP5V_S5_SB_V5REF_SUS	PP5V_S5_SB_V5REF_SUS -	24D5 25C7
	@mlb_noldo_lib.MLB_NOLDO	
PP18V5_DCIN	PP18V5_DCIN -	65D4
	@mlb_noldo_lib.MLB_NOLDO	
PP18V5_DCIN_F	PP18V5_DCIN_F -	65D7
	@mlb_noldo_lib.MLB_NOLDO	
PP18V5_DCIN_ONEWIRE	PP18V5_DCIN_ONEWIRE -	65C6
	@mlb_noldo_lib.MLB_NOLDO	
PP18V5_G3H	PP18V5_G3H -	5A2 64C1
	@mlb_noldo_lib.MLB_NOLDO	
	=PP18V5_G3H_INRUSH -	64C3 65D1
	@mlb_noldo_lib.MLB_NOLDO	
	=PP18V5_G3H_CHGR -	64C1 66D8
	@mlb_noldo_lib.MLB_NOLDO	
	=PP18V5_G3H_INRUSH -	64C3 65D1
	@mlb_noldo_lib.MLB_NOLDO	
	=PP18V5_G3H_CHGR -	64C1 66D8
	@mlb_noldo_lib.MLB_NOLDO	
PP18V5_S5_CHGR_SW_R	PP18V5_S5_CHGR_SW_R -	66C4
	@mlb_noldo_lib.MLB_NOLDO	
PPBUSA_G3H	PPBUSA_G3H -	5A2
	@mlb_noldo_lib.MLB_NOLDO	
PPBUSB_G3H	PPBUSB_G3H -	5A2 64C1
	@mlb_noldo_lib.MLB_NOLDO	
	=PPBUS_S5_YUKON_CTRL -	60C8 64C1
	@mlb_noldo_lib.MLB_NOLDO	
	=PPVIN_S5_PWRVP5 -	48C7 58C2 58D5 58D8 64C1
	@mlb_noldo_lib.MLB_NOLDO	
	=PPVIN_S5_1V51V05S0 -	62D8 64C1
	@mlb_noldo_lib.MLB_NOLDO	
	=PPBUSB_G3H -	64C3 66C2
	@mlb_noldo_lib.MLB_NOLDO	
	=PPBUS_S5_INV -	64C1 67D4
	@mlb_noldo_lib.MLB_NOLDO	
	=PPBUS_S5_FWPWRSW -	39D6 64C1
	@mlb_noldo_lib.MLB_NOLDO	
	=PPVIN_S5_5V3V3S5 -	59D8 63B7 64C1
	@mlb_noldo_lib.MLB_NOLDO	
	=PPVIN_S5_1V8S3 -	61C7 64C1
	@mlb_noldo_lib.MLB_NOLDO	
	=PPVIN_S5_IMVP6 -	48C7 58C2 58D5 58D8 64C1
	@mlb_noldo_lib.MLB_NOLDO	
	=PPVIN_S5_5V3V3S5 -	59D8 63B7 64C1
	@mlb_noldo_lib.MLB_NOLDO	
	=PPVIN_S5_1V8S3 -	61C7 64C1
	@mlb_noldo_lib.MLB_NOLDO	
	=PPVIN_S5_1V51V05S0 -	62D8 64C1
	@mlb_noldo_lib.MLB_NOLDO	
	=PPBUS_S5_YUKON_CTRL -	60C8 64C1
	@mlb_noldo_lib.MLB_NOLDO	
	=PPBUS_S5_INV -	64C1 67D4
	@mlb_noldo_lib.MLB_NOLDO	
	=PPBUS_S5_FWPWRSW -	39D6 64C1
	@mlb_noldo_lib.MLB_NOLDO	
	=PPBUSB_G3H -	64C3 66C2
	@mlb_noldo_lib.MLB_NOLDO	
	=PPBUSA_G3H -	64C3 66C2
	@mlb_noldo_lib.MLB_NOLDO	
PPBUS_ALL_INV_CONN	PPBUS_ALL_INV_CONN -	5B1 67D3
	@mlb_noldo_lib.MLB_NOLDO	
PPBUS_S5_FWPWRSW_F	PPBUS_S5_FWPWRSW_F -	39D6
	@mlb_noldo_lib.MLB_NOLDO	
PPDCIN_G3H_R	PPDCIN_G3H_R -	65D4
	@mlb_noldo_lib.MLB_NOLDO	
PPFW_PORT0_VP	PPFW_PORT0_VP -	39C2
	@mlb_noldo_lib.MLB_NOLDO	
PPFW_PORT0_VP_F	PPFW_PORT0_VP_F -	39C3
	@mlb_noldo_lib.MLB_NOLDO	
PPFW_SWITCH	PPFW_SWITCH -	5B2 39D4
	@mlb_noldo_lib.MLB_NOLDO	
PPVBATT_G3C_RTC	PPVBATT_G3C_RTC -	26D6
	@mlb_noldo_lib.MLB_NOLDO	
PPVBATT_G3C_RTC_R	PPVBATT_G3C_RTC_R -	26D5
	@mlb_noldo_lib.MLB_NOLDO	
PPVBATT_G3H_PRE	PPVBATT_G3H_PRE -	66B3
	@mlb_noldo_lib.MLB_NOLDO	
PPVBATT_G3H_R	PPVBATT_G3H_R -	66B2
	@mlb_noldo_lib.MLB_NOLDO	
PPVBAT_G3H_CHGR_OUT	PPVBAT_G3H_CHGR_OUT -	5C1 66B5 66C2
	@mlb_noldo_lib.MLB_NOLDO	
PPVBAT_G3H_CHGR_REG	PPVBAT_G3H_CHGR_REG -	66C4
	@mlb_noldo_lib.MLB_NOLDO	
PPVCORE_CPU_S0	PPVCORE_CPU_S0 -	5B2 64D7
	@mlb_noldo_lib.MLB_NOLDO	
	=PPVCORE_S0_CPU -	8B5 8D7 9B8 48A5 48B3
	@mlb_noldo_lib.MLB_NOLDO	64D6
	=PPVOUT_S0_IMVP6_REG -	58D1 64D8
	@mlb_noldo_lib.MLB_NOLDO	
	=PPVCORE_S0_CPU -	8B5 8D7 9B8 48A5 48B3
	@mlb_noldo_lib.MLB_NOLDO	64D6
PPVDCIN_G3H_PRE	PPVDCIN_G3H_PRE -	66D4
	@mlb_noldo_lib.MLB_NOLDO	
PPVIN_S5_1V51V05S0_R	PPVIN_S5_1V51V05S0_R -	62C5
	@mlb_noldo_lib.MLB_NOLDO	
PPVIN_S5_5V3V3S5_R	PPVIN_S5_5V3V3S5_R -	59C5
	@mlb_noldo_lib.MLB_NOLDO	
PPVIN_S5_IMVP6_VIN	PPVIN_S5_IMVP6_VIN -	58D7
	@mlb_noldo_lib.MLB_NOLDO	
RSMRST_PWRGD	RSMRST_PWRGD -	45D8 46D6 59A1
	@mlb_noldo_lib.MLB_NOLDO	
	5V3V3S5_PGOOD -	59A2
	@mlb_noldo_lib.MLB_NOLDO	
S0PWRGD_0V9_DIV	S0PWRGD_0V9_DIV -	63B2
	@mlb_noldo_lib.MLB_NOLDO	
S0PWRGD_1V2_DIV	S0PWRGD_1V2_DIV -	63A2
	@mlb_noldo_lib.MLB_NOLDO	
S0PWRGD_OK	S0PWRGD_OK -	63B2
	@mlb_noldo_lib.MLB_NOLDO	
SATA_A_D2R_N	SATA_A_D2R_N -	6C4 21B6
	@mlb_noldo_lib.MLB_NOLDO	
	SATA_A_D2R_N_SPN -	6C3
	@mlb_noldo_lib.MLB_NOLDO	
SATA_A_D2R_P	SATA_A_D2R_P -	6C4 21B6
	@mlb_noldo_lib.MLB_NOLDO	
	SATA_A_D2R_P_SPN -	6C3
	@mlb_noldo_lib.MLB_NOLDO	
SATA_A_R2D_C_N	SATA_A_R2D_C_N -	6C4 21B6
	@mlb_noldo_lib.MLB_NOLDO	
	SATA_A_R2D_C_N_SPN -	6C3
	@mlb_noldo_lib.MLB_NOLDO	
SATA_A_R2D_C_P	SATA_A_R2D_C_P -	6C4 21B6
	@mlb_noldo_lib.MLB_NOLDO	
	SATA_A_R2D_C_P_SPN -	6C3
	@mlb_noldo_lib.MLB_NOLDO	
SATA_C_D2R_C_N	SATA_C_D2R_C_N -	35D7
	@mlb_noldo_lib.MLB_NOLDO	
SATA_C_D2R_C_P	SATA_C_D2R_C_P -	35C7
	@mlb_noldo_lib.MLB_NOLDO	
SATA_C_D2R_F_N	SATA_C_D2R_F_N -	35D5
	@mlb_noldo_lib.MLB_NOLDO	
SATA_C_D2R_F_P	SATA_C_D2R_F_P -	35C5
	@mlb_noldo_lib.MLB_NOLDO	
SATA_C_D2R_N	SATA_C_D2R_N -	21B6 35D4
	@mlb_noldo_lib.MLB_NOLDO	
SATA_C_D2R_P	SATA_C_D2R_P -	21B6 35C4
	@mlb_noldo_lib.MLB_NOLDO	
SATA_C_DET_L	SATA_C_DET_L -	23D2 35D2
	@mlb_noldo_lib.MLB_NOLDO	
SATA_C_PWR_EN_L	SATA_C_PWR_EN_L -	23A3 23B3
	@mlb_noldo_lib.MLB_NOLDO	
SATA_C_R2D_C_N	SATA_C_R2D_C_N -	21B6 35D4
	@mlb_noldo_lib.MLB_NOLDO	
SATA_C_R2D_C_P	SATA_C_R2D_C_P -	21B6 35D4
	@mlb_noldo_lib.MLB_NOLDO	
SATA_C_R2D_F_N	SATA_C_R2D_F_N -	35D6
	@mlb_noldo_lib.MLB_NOLDO	
SATA_C_R2D_F_P	SATA_C_R2D_F_P -	35D6
	@mlb_noldo_lib.MLB_NOLDO	
SATA_C_R2D_N	SATA_C_R2D_N -	35D7
	@mlb_noldo_lib.MLB_NOLDO	
SATA_C_R2D_P	SATA_C_R2D_P -	35D7
	@mlb_noldo_lib.MLB_NOLDO	
SATA_RBIAS_N	SATA_RBIAS_N -	21B6 35D2
	@mlb_noldo_lib.MLB_NOLDO	
	SATA_RBIAS_P -	21B6 35D2
	@mlb_noldo_lib.MLB_NOLDO	
	SATA_RBIAS_PN -	35D3
	@mlb_noldo_lib.MLB_NOLDO	
	SATA_RBIAS_P -	21B6 35D2
	@mlb_noldo_lib.MLB_NOLDO	
SB_A20GATE	SB_A20GATE -	21C4
	@mlb_noldo_lib.MLB_NOLDO	
SB_ACZ_BITCLK	SB_ACZ_BITCLK -	21C6
	@mlb_noldo_lib.MLB_NOLDO	
SB_ACZ_RST_L	SB_ACZ_RST_L -	21C6
	@mlb_noldo_lib.MLB_NOLDO	
SB_ACZ_SDATAOUT	SB_ACZ_SDATAOUT -	21C6
	@mlb_noldo_lib.MLB_NOLDO	
SB_ACZ_SYNC	SB_ACZ_SYNC -	21C6
	@mlb_noldo_lib.MLB_NOLDO	
SB_CLK14P3M_TIMER	SB_CLK14P3M_TIMER -	23D3 33A6
	@mlb_noldo_lib.MLB_NOLDO	
SB_CLK48M_USBCTLR	SB_CLK48M_USBCTLR -	23D3 33C7
	@mlb_noldo_lib.MLB_NOLDO	
SB_CLK100M_DMI_N	SB_CLK100M_DMI_N -	22C2 33B2 33C3
	@mlb_noldo_lib.MLB_NOLDO	
SB_CLK100M_DMI_P	SB_CLK100M_DMI_P -	22C2 33B2 33C3
	@mlb_noldo_lib.MLB_NOLDO	
SB_CLK100M_SATA_N	SB_CLK100M_SATA_N -	21B6 33B2 33B3
	@mlb_noldo_lib.MLB_NOLDO	
SB_CLK100M_SATA_OE_L	SB_CLK100M_SATA_OE_L -	23C3 32B4
	@mlb_noldo_lib.MLB_NOLDO	
SB_CLK100M_SATA_P	SB_CLK100M_SATA_P -	21B6 33B2 33B3
	@mlb_noldo_lib.MLB_NOLDO	
SB_GPIO2	SB_GPIO2 - @mlb_noldo_lib.MLB_NOLDO	22A6 26C3
SB_GPIO3	SB_GPIO3 - @mlb_noldo_lib.MLB_NOLDO	22A6 23A4 26C3
SB_GPIO4	SB_GPIO4 - @mlb_noldo_lib.MLB_NOLDO	22A6 26C3
SB_GPIO5	SB_GPIO5 - @mlb_noldo_lib.MLB_NOLDO	22A6 26C3 34C8
	ODD_PWR_EN_L -	34C8
	@mlb_noldo_lib.MLB_NOLDO	
SB_GPIO14	SB_GPIO14 -	23A4 23C3
	@mlb_noldo_lib.MLB_NOLDO	
SB_GPIO19	SB_GPIO19 -	23D3
	@mlb_noldo_lib.MLB_NOLDO	
SB_GPIO21	SB_GPIO21 -	23D3
	@mlb_noldo_lib.MLB_NOLDO	
SB_GPIO26	SB_GPIO26 -	23C8
	@mlb_noldo_lib.MLB_NOLDO	
SB_GPIO29	SB_GPIO29 -	22C4 22D8
	@mlb_noldo_lib.MLB_NOLDO	
SB_GPIO30	SB_GPIO30 -	22C4 22D8 36D8
	@mlb_noldo_lib.MLB_NOLDO	
SB_GPIO31	SB_GPIO31 -	22C4 22D8
	@mlb_noldo_lib.MLB_NOLDO	
SB_GPIO37	SB_GPIO37 -	23D3
	@mlb_noldo_lib.MLB_NOLDO	
SB_INTVRMEN	SB_INTVRMEN -	21D6
	@mlb_noldo_lib.MLB_NOLDO	
SB_RTC_RST_L	SB_RTC_RST_L -	21D6 26D4
	@mlb_noldo_lib.MLB_NOLDO	
SB_RTC_X1	SB_RTC_X1 -	21D6 26C8
	@mlb_noldo_lib.MLB_NOLDO	
SB_RTC_X1_R	SB_RTC_X1_R -	26C7
	@mlb_noldo_lib.MLB_NOLDO	
SB_RTC_X2	SB_RTC_X2 -	21D6 26C8
	@mlb_noldo_lib.MLB_NOLDO	
SB_RUNTIME_SCI_L	SB_RUNTIME_SCI_L -	23C5
	@mlb_noldo_lib.MLB_NOLDO	
SB_SM_INTRUDER_L	SB_SM_INTRUDER_L -	21D6 26D4
	@mlb_noldo_lib.MLB_NOLDO	
SB_SPKR	SB_SPKR - @mlb_noldo_lib.MLB_NOLDO	23C5
SC_RX_L	SC_RX_L - @mlb_noldo_lib.MLB_NOLDO	45C5 46B1
SC_TX_L	SC_TX_L - @mlb_noldo_lib.MLB_NOLDO	45C5 46B1
SDATAIN	SDATAIN - @mlb_noldo_lib.MLB_NOLDO	54C6
SDVO_CTRLCLK	SDVO_CTRLCLK -	14B6 68A6
	@mlb_noldo_lib.MLB_NOLDO	
SDVO_CTRLDATA	SDVO_CTRLDATA -	14B6 68A6
	@mlb_noldo_lib.MLB_NOLDO	
SMBUS_BATT_SCL_F	SMBUS_BATT_SCL_F -	5D1 65B6
	@mlb_noldo_lib.MLB_NOLDO	
SMBUS_BATT_SDA_F	SMBUS_BATT_SDA_F -	5D1 65A6
	@mlb_noldo_lib.MLB_NOLDO	
SMB_0_CLK	SMB_0_CLK -	27D6 45C8
	@mlb_noldo_lib.MLB_NOLDO	
	SMBUS_SMC_0_SCL -	27D5
	@mlb_noldo_lib.MLB_NOLDO	
	THRM_DIMM1_SMB_CLK -	27D3 49B4
	@mlb_noldo_lib.MLB_NOLDO	
	SMBUS_SMC_0_SCL -	27D5
	@mlb_noldo_lib.MLB_NOLDO	
SMB_0_DATA	SMB_0_DATA -	27D6 45C5
	@mlb_noldo_lib.MLB_NOLDO	
	SMBUS_SMC_0_SDA -	27D5
	@mlb_noldo_lib.MLB_NOLDO	
	THRM_DIMM1_SMB_DATA -	27C3 49B4
	@mlb_noldo_lib.MLB_NOLDO	
	SMBUS_SMC_0_SDA -	27D5
	@mlb_noldo_lib.MLB_NOLDO	
SMB_AIRPORT_CONN_CLK	SMB_AIRPORT_CONN_CLK -	43B5
	@mlb_noldo_lib.MLB_NOLDO	
SMB_AIRPORT_CONN_DAT	SMB_AIRPORT_CONN_DATA -	43B5
A	@mlb_noldo_lib.MLB_NOLDO	
SMB_ALERT_L	SMB_ALERT_L -	23C5
	@mlb_noldo_lib.MLB_NOLDO	
SMB_BSA_CLK	SMB_BSA_CLK -	27C3 45B5
	@mlb_noldo_lib.MLB_NOLDO	
	SMBUS_SMC_BSA_SCL -	27C2
	@mlb_noldo_lib.MLB_NOLDO	
	=SMBUS_BATT_SCL -	27C1 65A2
	@mlb_noldo_lib.MLB_NOLDO	
	SMBUS_SMC_BSA_SCL -	27C2
	@mlb_noldo_lib.MLB_NOLDO	
	=SMBUS_BATT_SCL -	27C1 65A2
	@mlb_noldo_lib.MLB_NOLDO	
SMB_BSA_DATA	SMB_BSA_DATA -	27C3 45B5
	@mlb_noldo_lib.MLB_NOLDO	
	SMBUS_SMC_BSA_SDA -	27C2
	@mlb_noldo_lib.MLB_NOLDO	
	=SMBUS_BATT_SDA -	27C1 65A2
	@mlb_noldo_lib.MLB_NOLDO	
	SMBUS_SMC_BSA_SDA -	27C2
	@mlb_noldo_lib.MLB_NOLDO	
	=SMBUS_BATT_SDA -	27C1 65A2
	@mlb_noldo_lib.MLB_NOLDO	
SMB_BSB_CLK	SMB_BSB_CLK -	27B3 45C5
	@mlb_noldo_lib.MLB_NOLDO	
SMB_BSB_DATA	SMB_BSB_DATA -	27B3 45C8
	@mlb_noldo_lib.MLB_NOLDO	
SMB_LINK_ALERT_L	SMB_LINK_ALERT_L -	23D5
	@mlb_noldo_lib.MLB_NOLDO	
SMB_MLB_CLK	SMB_MLB_CLK -	27C6 45B5
	@mlb_noldo_lib.MLB_NOLDO	
	THRM_DIMM0_SMB_CLK -	27B3 49C4
	@mlb_noldo_lib.MLB_NOLDO	
	SMBUS_SMC_MLB_SCL -	5B2 27C5
	@mlb_noldo_lib.MLB_NOLDO	
	SMB_THRM_CLK -	10B3 27C3
	@mlb_noldo_lib.MLB_NOLDO	
	THRM_DIMM0_SMB_CLK -	27B3 49C4
	@mlb_noldo_lib.MLB_NOLDO	
	SMB_THRM_CLK -	10B3 27C3
	@mlb_noldo_lib.MLB_NOLDO	
	SMBUS_SMC_MLB_SCL -	5B2 27C5
	@mlb_noldo_lib.MLB_NOLDO	
SMB_MLB_DATA	SMB_MLB_DATA -	27B6 45B5
	@mlb_noldo_lib.MLB_NOLDO	
	THRM_DIMM0_SMB_DATA -	27B3 49C4
	@mlb_noldo_lib.MLB_NOLDO	
	SMBUS_SMC_MLB_SDA -	5B2 27B5
	@mlb_noldo_lib.MLB_NOLDO	
	SMB_THRM_DATA -	10B3 27B3
	@mlb_noldo_lib.MLB_NOLDO	
	THRM_DIMM0_SMB_DATA -	27B3 49C4
	@mlb_noldo_lib.MLB_NOLDO	
	SMB_THRM_DATA -	10B3 27B3
	@mlb_noldo_lib.MLB_NOLDO	
	SMBUS_SMC_MLB_SDA -	5B2 27B5
	@mlb_noldo_lib.MLB_NOLDO	
SMC_AVCC_RC	SMC_AVCC_RC -	45D3
	@mlb_noldo_lib.MLB_NOLDO	
SMC_BATT_CHG_EN	SMC_BATT_CHG_EN -	5C1 45D8 46B6 66A4
	@mlb_noldo_lib.MLB_NOLDO	
SMC_BATT_ISENSE	SMC_BATT_ISENSE -	45D5 66B1
	@mlb_noldo_lib.MLB_NOLDO	
SMC_BATT_ISET	SMC_BATT_ISET -	5C1 45B5 66B7
	@mlb_noldo_lib.MLB_NOLDO	
SMC_BATT_TRICKLE_EN_	SMC_BATT_TRICKLE_EN_L -	5C1 45D8 46B6 66A3
L	@mlb_noldo_lib.MLB_NOLDO	

SMC_BATT_VSET	SMC_BATT_VSET - @mlb_noldo_lib.MLB_NOLDO	45B5 46C3
SMC_BC_ACOK	SMC_BC_ACOK - @mlb_noldo_lib.MLB_NOLDO	5C1 45C5 46B6 65C3 65C7 66A5
SMC_BKLIGHT_ENABLE	SMC_BKLIGHT_ENABLE - @mlb_noldo_lib.MLB_NOLDO	45C8
SMC_BS_ALRT_L	SMC_BS_ALRT_L - @mlb_noldo_lib.MLB_NOLDO	5D1 45C5 46C6 65A2
SMC_BS_ALRT_L_F	SMC_BS_ALRT_L_F - @mlb_noldo_lib.MLB_NOLDO	65A6
SMC_CASE_OPEN	SMC_CASE_OPEN - @mlb_noldo_lib.MLB_NOLDO	45C5 46B3
SMC_CPU_ISENSE	SMC_CPU_ISENSE - @mlb_noldo_lib.MLB_NOLDO	45D5 48C1
SMC_CPU_RESET_3_3_L	SMC_CPU_RESET_3_3_L - @mlb_noldo_lib.MLB_NOLDO	45B5 46C1
SMC_CPU_VSENSE	SMC_CPU_VSENSE - @mlb_noldo_lib.MLB_NOLDO	5B2 45D5 48B1
SMC_DCIN_ISENSE	SMC_DCIN_ISENSE - @mlb_noldo_lib.MLB_NOLDO	45D5 66C2
SMC_DISPLAY_ENABLE	SMC_DISPLAY_ENABLE - @mlb_noldo_lib.MLB_NOLDO	45C8
SMC_DISP_BKLT_A	SMC_DISP_BKLT_A - @mlb_noldo_lib.MLB_NOLDO	45B5
SMC_DISP_BKLT_B	SMC_DISP_BKLT_B - @mlb_noldo_lib.MLB_NOLDO	45B5 46C3
SMC_EXCARD_CP	SMC_EXCARD_CP - @mlb_noldo_lib.MLB_NOLDO	45B8 46C3
SMC_EXCARD_PWR_EN	SMC_EXCARD_PWR_EN - @mlb_noldo_lib.MLB_NOLDO	45B8 46C3
SMC_EXCARD_PWR_OC_L	SMC_EXCARD_PWR_OC_L - @mlb_noldo_lib.MLB_NOLDO	45B8 46D3
SMC_EXTAL	SMC_EXTAL - @mlb_noldo_lib.MLB_NOLDO	45C4 46C7
SMC_EXTSMI_L	SMC_EXTSMI_L - @mlb_noldo_lib.MLB_NOLDO	23B8 45B8
SMC_FAN_0_CTL	SMC_FAN_0_CTL - @mlb_noldo_lib.MLB_NOLDO	45B8 46C3
SMC_FAN_0_TACH	SMC_FAN_0_TACH - @mlb_noldo_lib.MLB_NOLDO	45B8 46C3
SMC_FAN_1_CTL	SMC_FAN_1_CTL - @mlb_noldo_lib.MLB_NOLDO	5D2 45B8 51B4
SMC_FAN_1_TACH	SMC_FAN_1_TACH - @mlb_noldo_lib.MLB_NOLDO	5D2 45B8 51C4
SMC_FAN_2_CTL	SMC_FAN_2_CTL - @mlb_noldo_lib.MLB_NOLDO	45B8 46C3
SMC_FAN_2_TACH	SMC_FAN_2_TACH - @mlb_noldo_lib.MLB_NOLDO	45B8 46C3
SMC_FAN_3_CTL	SMC_FAN_3_CTL - @mlb_noldo_lib.MLB_NOLDO	45B8 46C3
SMC_FAN_3_TACH	SMC_FAN_3_TACH - @mlb_noldo_lib.MLB_NOLDO	5A7 45B8 46C3
SMC_FWE	SMC_FWE - @mlb_noldo_lib.MLB_NOLDO	45B5 46C6
SMC_FWIRE_ISENSE	SMC_FWIRE_ISENSE - @mlb_noldo_lib.MLB_NOLDO	45D5 46B3
SMC_GPU_ISENSE	SMC_GPU_ISENSE - @mlb_noldo_lib.MLB_NOLDO	45D5 46C6
SMC_GPU_VSENSE	SMC_GPU_VSENSE - @mlb_noldo_lib.MLB_NOLDO	45D5 46C6
SMC_LID	SMC_LID - @mlb_noldo_lib.MLB_NOLDO	5B2 40C4 45B5 46C6 65A8
SMC_LID_F	SMC_LID_F - @mlb_noldo_lib.MLB_NOLDO	65A7
SMC_LRESET_L	SMC_LRESET_L - @mlb_noldo_lib.MLB_NOLDO	26B1 45C8
SMC_MANUAL_RST_L	SMC_MANUAL_RST_L - @mlb_noldo_lib.MLB_NOLDO	5B2 46D8
SMC_MD1	SMC_MD1 - @mlb_noldo_lib.MLB_NOLDO	5C2 45C2 47B6
SMC_MEM_ISENSE	SMC_MEM_ISENSE - @mlb_noldo_lib.MLB_NOLDO	45A8 46B3 61C1
SMC_NB_ISENSE	SMC_NB_ISENSE - @mlb_noldo_lib.MLB_NOLDO	45B8 46B3 62A5
SMC_NMI	SMC_NMI - @mlb_noldo_lib.MLB_NOLDO	5C2 45C1 47B5
SMC_ODD_DETECT	SMC_ODD_DETECT - @mlb_noldo_lib.MLB_NOLDO	34B3 45B8
SMC_ONOFF_L	SMC_ONOFF_L - @mlb_noldo_lib.MLB_NOLDO	40C8 45C5 46C8 46D6 48C8
	CONN_GEYSER_ONOFF_L - @mlb_noldo_lib.MLB_NOLDO	40C7
SMC_P20	SMC_P20 - @mlb_noldo_lib.MLB_NOLDO	45D8 46C6
SMC_P21	SMC_P21 - @mlb_noldo_lib.MLB_NOLDO	45D8 46C6
SMC_P22	SMC_P22 - @mlb_noldo_lib.MLB_NOLDO	45D8 46C6
SMC_P23	SMC_P23 - @mlb_noldo_lib.MLB_NOLDO	45D8 46C6
SMC_P26	SMC_P26 - @mlb_noldo_lib.MLB_NOLDO	45D8 46C6
SMC_P27	SMC_P27 - @mlb_noldo_lib.MLB_NOLDO	45D8 46C6
SMC_P44	SMC_P44 - @mlb_noldo_lib.MLB_NOLDO	45C8 46C6
SMC_P46	SMC_P46 - @mlb_noldo_lib.MLB_NOLDO	45C8 46C6
SMC_PB7	SMC_PB7 - @mlb_noldo_lib.MLB_NOLDO	45B8 46C6
SMC_PBUS_VSENSE	SMC_PBUS_VSENSE - @mlb_noldo_lib.MLB_NOLDO	45D5 48C5
SMC_PD3	SMC_PD3 - @mlb_noldo_lib.MLB_NOLDO	45B8 46C3
SMC_PG1	SMC_PG1 - @mlb_noldo_lib.MLB_NOLDO	45B5 46C6
SMC_PM_G2_EN	SMC_PM_G2_EN - @mlb_noldo_lib.MLB_NOLDO	45D5 63C8
SMC_PM_G2_EN_L	SMC_PM_G2_EN_L - @mlb_noldo_lib.MLB_NOLDO	63C7
SMC_PROCHOT	SMC_PROCHOT - @mlb_noldo_lib.MLB_NOLDO	45B5 46B6
SMC_PROCHOT_3_3_L	SMC_PROCHOT_3_3_L - @mlb_noldo_lib.MLB_NOLDO	45D5 46C1
SMC_PS_ON	SMC_PS_ON - @mlb_noldo_lib.MLB_NOLDO	5C1 39C6 45D5 46B3 65C3
SMC_RCIN_L	SMC_RCIN_L - @mlb_noldo_lib.MLB_NOLDO	21C3 45C8
SMC_RSTGATE_L	SMC_RSTGATE_L - @mlb_noldo_lib.MLB_NOLDO	26A3 45D8
SMC_RST_L	SMC_RST_L - @mlb_noldo_lib.MLB_NOLDO	5C2 45C3 46D7 47C5
SMC_RUNTIME_SCI_L	SMC_RUNTIME_SCI_L - @mlb_noldo_lib.MLB_NOLDO	23C8 45B8
SMC_RX_L	SMC_RX_L - @mlb_noldo_lib.MLB_NOLDO	5C2 45C8 46B2 46D6 47B5
SMC_SB_NMI	SMC_SB_NMI - @mlb_noldo_lib.MLB_NOLDO	23C3 45D8
SMC_SUS_CLK	SMC_SUS_CLK - @mlb_noldo_lib.MLB_NOLDO	45C5 46A6
SMC_SUS_CLK_R	SMC_SUS_CLK_R - @mlb_noldo_lib.MLB_NOLDO	46A7
SMC_SYS_ISET	SMC_SYS_ISET - @mlb_noldo_lib.MLB_NOLDO	45B5 66D7
SMC_SYS_KBDLED	SMC_SYS_KBDLED - @mlb_noldo_lib.MLB_NOLDO	45C8 46C6
SMC_SYS_LED_16B	SMC_SYS_LED_16B - @mlb_noldo_lib.MLB_NOLDO	45C8 46A4
SMC_SYS_VSET	SMC_SYS_VSET - @mlb_noldo_lib.MLB_NOLDO	45B5 46C3
SMC_TCK	SMC_TCK - @mlb_noldo_lib.MLB_NOLDO	5C2 45C5 46C6 47C5
SMC_TDI	SMC_TDI - @mlb_noldo_lib.MLB_NOLDO	5C2 45C5 46C6 47C5
SMC_TDO	SMC_TDO - @mlb_noldo_lib.MLB_NOLDO	5C2 45C5 46C6 47B6
SMC_THRMTRIP	SMC_THRMTRIP - @mlb_noldo_lib.MLB_NOLDO	45B5 46B5
SMC_TMS	SMC_TMS - @mlb_noldo_lib.MLB_NOLDO	5C2 45B5 46C6 47C6
SMC_TPM_GPIO	SMC_TPM_GPIO - @mlb_noldo_lib.MLB_NOLDO	45D5 46B2
SMC_TPM_PP	SMC_TPM_PP - @mlb_noldo_lib.MLB_NOLDO	45C8 53C7
SMC_TPM_PP_R	SMC_TPM_PP_R - @mlb_noldo_lib.MLB_NOLDO	53C6
SMC_TPM_RESET_L	SMC_TPM_RESET_L - @mlb_noldo_lib.MLB_NOLDO	45C8 46D6 53B7
SMC_TRST_L	SMC_TRST_L - @mlb_noldo_lib.MLB_NOLDO	5C2 45C1 47C6
SMC_TX_L	SMC_TX_L - @mlb_noldo_lib.MLB_NOLDO	5C2 45C8 46B2 46D6 47B6
SMC_VCL	SMC_VCL - @mlb_noldo_lib.MLB_NOLDO	45D3
SMC_WAKE_SCI_L	SMC_WAKE_SCI_L - @mlb_noldo_lib.MLB_NOLDO	23C1 45D5
SMC_XTAL	SMC_XTAL - @mlb_noldo_lib.MLB_NOLDO	45C4 46C7
SMLINK<0>	SMLINK<0> - @mlb_noldo_lib.MLB_NOLDO	23D5
SMLINK<1>	SMLINK<1> - @mlb_noldo_lib.MLB_NOLDO	23D5
SMS_ACC_SELFTEST	SMS_ACC_SELFTEST - @mlb_noldo_lib.MLB_NOLDO	52B6
SMS_INT_L	SMS_INT_L - @mlb_noldo_lib.MLB_NOLDO	23C3 45B5 46D6
SMS_ONOFF_L	SMS_ONOFF_L - @mlb_noldo_lib.MLB_NOLDO	45B5 52C7
SMS_X_AXIS	SMS_X_AXIS - @mlb_noldo_lib.MLB_NOLDO	45B8 52C2
SMS_Y_AXIS	SMS_Y_AXIS - @mlb_noldo_lib.MLB_NOLDO	45B8 52C2
SMS_Z_AXIS	SMS_Z_AXIS - @mlb_noldo_lib.MLB_NOLDO	45B8 52C2
SPI_ARB	SPI_ARB - @mlb_noldo_lib.MLB_NOLDO	22C6 45D5
SPI_CE_L	SPI_CE_L - @mlb_noldo_lib.MLB_NOLDO	22C6 45B5 50C7
SPI_HOLD_L	SPI_HOLD_L - @mlb_noldo_lib.MLB_NOLDO	50C4
SPI_SCLK	SPI_SCLK - @mlb_noldo_lib.MLB_NOLDO	22C6 45D5 50C7
SPI_SCLK_R	SPI_SCLK_R - @mlb_noldo_lib.MLB_NOLDO	50C4
SPI_SI	SPI_SI - @mlb_noldo_lib.MLB_NOLDO	22C6 45D5 50C1
SPI_SI_R	SPI_SI_R - @mlb_noldo_lib.MLB_NOLDO	50C3
SPI_SO	SPI_SO - @mlb_noldo_lib.MLB_NOLDO	22C6 45D5 50C1
SPI_SO_R	SPI_SO_R - @mlb_noldo_lib.MLB_NOLDO	50C3
SPI_WP_L	SPI_WP_L - @mlb_noldo_lib.MLB_NOLDO	50C4
SPKRAMP_L_N_OUT	SPKRAMP_L_N_OUT - @mlb_noldo_lib.MLB_NOLDO	55B4 55C3
SPKRAMP_L_P_OUT	SPKRAMP_L_P_OUT - @mlb_noldo_lib.MLB_NOLDO	55B4 55C3
SPKRAMP_R_N_OUT	SPKRAMP_R_N_OUT - @mlb_noldo_lib.MLB_NOLDO	55C3 55C4
SPKRAMP_R_P_OUT	SPKRAMP_R_P_OUT - @mlb_noldo_lib.MLB_NOLDO	55C4 55D3
SPKRAMP_SUB_N_OUT	SPKRAMP_SUB_N_OUT - @mlb_noldo_lib.MLB_NOLDO	55A4 55B3
SPKRAMP_SUB_P_OUT	SPKRAMP_SUB_P_OUT - @mlb_noldo_lib.MLB_NOLDO	55A4 55B3
SPKRAMP_SYNC1	SPKRAMP_SYNC1 - @mlb_noldo_lib.MLB_NOLDO	55A4 55C4
SPKRAMP_SYNC2	SPKRAMP_SYNC2 - @mlb_noldo_lib.MLB_NOLDO	55A4 55B4
SPKRAMP_THERMPLANE	SPKRAMP_THERMPLANE - @mlb_noldo_lib.MLB_NOLDO	55A4 55A4 55B4 55C4
SPKRCONN_L_N_OUT	SPKRCONN_L_N_OUT - @mlb_noldo_lib.MLB_NOLDO	55C1 56D2
SPKRCONN_L_P_OUT	SPKRCONN_L_P_OUT - @mlb_noldo_lib.MLB_NOLDO	55C1 56D2
SPKRCONN_R_N_OUT	SPKRCONN_R_N_OUT - @mlb_noldo_lib.MLB_NOLDO	55C1 56C2
SPKRCONN_R_P_OUT	SPKRCONN_R_P_OUT - @mlb_noldo_lib.MLB_NOLDO	55D1 56C2
SPKRCONN_SUB_N_OUT	SPKRCONN_SUB_N_OUT - @mlb_noldo_lib.MLB_NOLDO	55B1 56C2
SPKRCONN_SUB_P_OUT	SPKRCONN_SUB_P_OUT - @mlb_noldo_lib.MLB_NOLDO	55B1 56C2
SPKR_SHIELD	SPKR_SHIELD - @mlb_noldo_lib.MLB_NOLDO	56C2
ST_ACCEL_ON_L	ST_ACCEL_ON_L - @mlb_noldo_lib.MLB_NOLDO	52B6
SUS_CLK_SB	SUS_CLK_SB - @mlb_noldo_lib.MLB_NOLDO	6B4 23C3
	SUS_CLK_SB_SPN - @mlb_noldo_lib.MLB_NOLDO	6B3
SV_SET_UP	SV_SET_UP - @mlb_noldo_lib.MLB_NOLDO	5C2 23B6 23C3 47B5
SYS_LED_ANODE	SYS_LED_ANODE - @mlb_noldo_lib.MLB_NOLDO	5B2 35C5 46A3
SYS_LED_ANODE_L	SYS_LED_ANODE_L - @mlb_noldo_lib.MLB_NOLDO	35C7
SYS_LED_ILIM	SYS_LED_ILIM - @mlb_noldo_lib.MLB_NOLDO	46A3
SYS_LED_L	SYS_LED_L - @mlb_noldo_lib.MLB_NOLDO	46A3
SYS_LED_L_VDIV	SYS_LED_L_VDIV - @mlb_noldo_lib.MLB_NOLDO	46A3
SYS_ONEWIRE	SYS_ONEWIRE - @mlb_noldo_lib.MLB_NOLDO	5C1 45B8 46D6 65C8
THRM_ALERT	THRM_ALERT - @mlb_noldo_lib.MLB_NOLDO	10B4
THRM_ALERT_L	THRM_ALERT_L - @mlb_noldo_lib.MLB_NOLDO	10C4
THRM_CPU_DX_N	THRM_CPU_DX_N - @mlb_noldo_lib.MLB_NOLDO	10B5
THRM_CPU_DX_P	THRM_CPU_DX_P - @mlb_noldo_lib.MLB_NOLDO	10B5
THRM_DIMM0_3V3_UNFILTERED	THRM_DIMM0_3V3_UNFILTERED - @mlb_noldo_lib.MLB_NOLDO	49D4
THRM_DIMM0_DXN	THRM_DIMM0_DXN - @mlb_noldo_lib.MLB_NOLDO	40C5 49C6
THRM_DIMM0_DXP1	THRM_DIMM0_DXP1 - @mlb_noldo_lib.MLB_NOLDO	40C4 49D6
THRM_DIMM0_DXP2	THRM_DIMM0_DXP2 - @mlb_noldo_lib.MLB_NOLDO	49C6
THRM_DIMM1_3V3_UNFILTERED	THRM_DIMM1_3V3_UNFILTERED - @mlb_noldo_lib.MLB_NOLDO	49B4
THRM_DIMM1_DXN	THRM_DIMM1_DXN - @mlb_noldo_lib.MLB_NOLDO	49B5
THRM_DIMM1_DXP1	THRM_DIMM1_DXP1 - @mlb_noldo_lib.MLB_NOLDO	49B5
THRM_DIMM1_DXP2	THRM_DIMM1_DXP2 - @mlb_noldo_lib.MLB_NOLDO	49A5
TMDS_EXT_RES	TMDS_EXT_RES - @mlb_noldo_lib.MLB_NOLDO	68B4
TMDS_EXT_SWING	TMDS_EXT_SWING - @mlb_noldo_lib.MLB_NOLDO	68B3
TMDS_HTPLG	TMDS_HTPLG - @mlb_noldo_lib.MLB_NOLDO	68A7 69C6
TMDS_HTPLG_R	TMDS_HTPLG_R - @mlb_noldo_lib.MLB_NOLDO	68A7
TMDS_I2C_SCL	TMDS_I2C_SCL - @mlb_noldo_lib.MLB_NOLDO	68B2
TMDS_I2C_SDA	TMDS_I2C_SDA - @mlb_noldo_lib.MLB_NOLDO	68B2
TMDS_INT_N	TMDS_INT_N - @mlb_noldo_lib.MLB_NOLDO	68B5
TMDS_INT_P	TMDS_INT_P - @mlb_noldo_lib.MLB_NOLDO	68B5
TMDS_RST_L	TMDS_RST_L - @mlb_noldo_lib.MLB_NOLDO	26B1 68B5
TMDS_SDB_N	TMDS_SDB_N - @mlb_noldo_lib.MLB_NOLDO	68B4
TMDS_SDB_P	TMDS_SDB_P - @mlb_noldo_lib.MLB_NOLDO	68B4
TMDS_SDC_N	TMDS_SDC_N - @mlb_noldo_lib.MLB_NOLDO	68B4
TMDS_SDC_P	TMDS_SDC_P - @mlb_noldo_lib.MLB_NOLDO	68B4
TMDS_SDG_N	TMDS_SDG_N - @mlb_noldo_lib.MLB_NOLDO	68B4
TMDS_SDG_P	TMDS_SDG_P - @mlb_noldo_lib.MLB_NOLDO	68B4
TMDS_SDR_N	TMDS_SDR_N - @mlb_noldo_lib.MLB_NOLDO	68B4
TMDS_SDR_P	TMDS_SDR_P - @mlb_noldo_lib.MLB_NOLDO	68B4
TMDS_TX<0>	TMDS_TX<0> - @mlb_noldo_lib.MLB_NOLDO	68D2
TMDS_TX<1>	TMDS_TX<1> - @mlb_noldo_lib.MLB_NOLDO	68D2
TMDS_TX<2>	TMDS_TX<2> - @mlb_noldo_lib.MLB_NOLDO	68C2
TMDS_TX_CLK	TMDS_TX_CLK - @mlb_noldo_lib.MLB_NOLDO	68C2
TMDS_TX_CLK_N	TMDS_TX_CLK_N - @mlb_noldo_lib.MLB_NOLDO	68B2 68C1 69A2
TMDS_TX_CLK_P	TMDS_TX_CLK_P - @mlb_noldo_lib.MLB_NOLDO	68B2 68C3 69A2
TMDS_TX_CONN_CLK_N	TMDS_TX_CONN_CLK_N - @mlb_noldo_lib.MLB_NOLDO	69B3
TMDS_TX_CONN_CLK_P	TMDS_TX_CONN_CLK_P - @mlb_noldo_lib.MLB_NOLDO	69B3
TMDS_TX_CONN_N<0>	TMDS_TX_CONN_N<0> - @mlb_noldo_lib.MLB_NOLDO	69B3
TMDS_TX_CONN_N<1>	TMDS_TX_CONN_N<1> - @mlb_noldo_lib.MLB_NOLDO	69B3
TMDS_TX_CONN_N<2>	TMDS_TX_CONN_N<2> - @mlb_noldo_lib.MLB_NOLDO	69B3
TMDS_TX_CONN_P<0>	TMDS_TX_CONN_P<0> - @mlb_noldo_lib.MLB_NOLDO	69B3
TMDS_TX_CONN_P<1>	TMDS_TX_CONN_P<1> - @mlb_noldo_lib.MLB_NOLDO	69B3
TMDS_TX_CONN_P<2>	TMDS_TX_CONN_P<2> - @mlb_noldo_lib.MLB_NOLDO	69B3
TMDS_TX_N<0>	TMDS_TX_N<0> - @mlb_noldo_lib.MLB_NOLDO	68B2 68D1 69B2
TMDS_TX_N<1>	TMDS_TX_N<1> - @mlb_noldo_lib.MLB_NOLDO	68B2 68D1 69B2
TMDS_TX_N<2>	TMDS_TX_N<2> - @mlb_noldo_lib.MLB_NOLDO	68B2 68C1 69B2
TMDS_TX_P<0>	TMDS_TX_P<0> - @mlb_noldo_lib.MLB_NOLDO	68B2 68D3 69B2
TMDS_TX_P<1>	TMDS_TX_P<1> - @mlb_noldo_lib.MLB_NOLDO	68B2 68D3 69B2
TMDS_TX_P<2>	TMDS_TX_P<2> - @mlb_noldo_lib.MLB_NOLDO	68B2 68C3 69B2
TPM_BADD	TPM_BADD - @mlb_noldo_lib.MLB_NOLDO	53C3
TPM_GPIO1	TPM_GPIO1 - @mlb_noldo_lib.MLB_NOLDO	46B1 53C6
TPM_GPIO2	TPM_GPIO2 - @mlb_noldo_lib.MLB_NOLDO	46B1 53C6
TPM_LRESET_L	TPM_LRESET_L - @mlb_noldo_lib.MLB_NOLDO	26B1 53B7
TPM_RST_L	TPM_RST_L - @mlb_noldo_lib.MLB_NOLDO	53B6
TPM_XTALI	TPM_XTALI - @mlb_noldo_lib.MLB_NOLDO	53C6
TPM_XTALO	TPM_XTALO - @mlb_noldo_lib.MLB_NOLDO	53C6
TPS73115_NR	TPS73115_NR - @mlb_noldo_lib.MLB_NOLDO	19D5
TP_AZ_DOCK_EN_L	TP_AZ_DOCK_EN_L - @mlb_noldo_lib.MLB_NOLDO	23C5
TP_AZ_DOCK_RST_L	TP_AZ_DOCK_RST_L - @mlb_noldo_lib.MLB_NOLDO	23C5
TP_CPU_A32_L	TP_CPU_A32_L - @mlb_noldo_lib.MLB_NOLDO	7C8
TP_CPU_A33_L	TP_CPU_A33_L - @mlb_noldo_lib.MLB_NOLDO	7B8
TP_CPU_A34_L	TP_CPU_A34_L - @mlb_noldo_lib.MLB_NOLDO	7B8
TP_CPU_A35_L	TP_CPU_A35_L - @mlb_noldo_lib.MLB_NOLDO	7B8
TP_CPU_A36_L	TP_CPU_A36_L - @mlb_noldo_lib.MLB_NOLDO	7B8
TP_CPU_A37_L	TP_CPU_A37_L - @mlb_noldo_lib.MLB_NOLDO	7B8
TP_CPU_A38_L	TP_CPU_A38_L - @mlb_noldo_lib.MLB_NOLDO	7B8
TP_CPU_A39_L	TP_CPU_A39_L - @mlb_noldo_lib.MLB_NOLDO	7B8
TP_CPU_APM0_L	TP_CPU_APM0_L - @mlb_noldo_lib.MLB_NOLDO	7B8
TP_CPU_APM1_L	TP_CPU_APM1_L - @mlb_noldo_lib.MLB_NOLDO	7B8
TP_CPU_CPUSLP_L	TP_CPU_CPUSLP_L - @mlb_noldo_lib.MLB_NOLDO	21C4
TP_CPU_EXTBREF	TP_CPU_EXTBREF - @mlb_noldo_lib.MLB_NOLDO	7B6
TP_CPU_HFPLL	TP_CPU_HFPLL - @mlb_noldo_lib.MLB_NOLDO	7B8
TP_CPU_SPARE0	TP_CPU_SPARE0 - @mlb_noldo_lib.MLB_NOLDO	7B6
TP_CPU_SPARE1	TP_CPU_SPARE1 - @mlb_noldo_lib.MLB_NOLDO	7B6
TP_CPU_SPARE2	TP_CPU_SPARE2 - @mlb_noldo_lib.MLB_NOLDO	7B6
TP_CPU_SPARE3	TP_CPU_SPARE3 - @mlb_noldo_lib.MLB_NOLDO	7B6
TP_CPU_SPARE4	TP_CPU_SPARE4 - @mlb_noldo_lib.MLB_NOLDO	7B6
TP_CPU_SPARE5	TP_CPU_SPARE5 - @mlb_noldo_lib.MLB_NOLDO	7B6
TP_CPU_SPARE6	TP_CPU_SPARE6 - @mlb_noldo_lib.MLB_NOLDO	7B6
TP_CPU_SPARE7	TP_CPU_SPARE7 - @mlb_noldo_lib.MLB_NOLDO	7B6
TP_LVDS_VBG	TP_LVDS_VBG - @mlb_noldo_lib.MLB_NOLDO	13D5
TP_NB_TESTIN_L	TP_NB_TESTIN_L - @mlb_noldo_lib.MLB_NOLDO	14D6
TP_NB_XOR_FSB2_H7	TP_NB_XOR_FSB2_H7 - @mlb_noldo_lib.MLB_NOLDO	14D6
TP_NB_XOR_LVDS_A34	TP_NB_XOR_LVDS_A34 - @mlb_noldo_lib.MLB_NOLDO	14C6
TP_NB_XOR_LVDS_A35	TP_NB_XOR_LVDS_A35 - @mlb_noldo_lib.MLB_NOLDO	14C6
TP_NB_XOR_LVDS_D27	TP_NB_XOR_LVDS_D27 - @mlb_noldo_lib.MLB_NOLDO	14C6
TP_NB_XOR_LVDS_D28	TP_NB_XOR_LVDS_D28 - @mlb_noldo_lib.MLB_NOLDO	14C6
TP_PCI_GNT0_L	TP_PCI_GNT0_L - @mlb_noldo_lib.MLB_NOLDO	22B6
TP_PCI_GNT1_L	TP_PCI_GNT1_L - @mlb_noldo_lib.MLB_NOLDO	22B6
TP_PCI_GNT2_L	TP_PCI_GNT2_L - @mlb_noldo_lib.MLB_NOLDO	22B6
TP_PCI_PME_L	TP_PCI_PME_L - @mlb_noldo_lib.MLB_NOLDO	22A6
TP_SB_ACZ_SDIN1	TP_SB_ACZ_SDIN1 - @mlb_noldo_lib.MLB_NOLDO	21C6
TP_SB_ACZ_SDIN2	TP_SB_ACZ_SDIN2 - @mlb_noldo_lib.MLB_NOLDO	21C6
TP_SB_DRQ0_L	TP_SB_DRQ0_L - @mlb_noldo_lib.MLB_NOLDO	21D4
TP_SB_GPIO6	TP_SB_GPIO6 - @mlb_noldo_lib.MLB_NOLDO	23C5
TP_SB_GPIO22	TP_SB_GPIO22 - @mlb_noldo_lib.MLB_NOLDO	6B1 22B6
	=SB_GPIO22 - @mlb_noldo_lib.MLB_NOLDO	6B2 69A6
	SB_GPIO22 - @mlb_noldo_lib.MLB_NOLDO	6B2
	=SB_GPIO22 - @mlb_noldo_lib.MLB_NOLDO	6B2 69A6
TP_SB_GPIO23	TP_SB_GPIO23 - @mlb_noldo_lib.MLB_NOLDO	21D5
TP_SB_GPIO25_DO_NOT_USE	TP_SB_GPIO25_DO_NOT_USE - @mlb_noldo_lib.MLB_NOLDO	23C3
TP_SB_GPIO38	TP_SB_GPIO38 - @mlb_noldo_lib.MLB_NOLDO	23C3
TP_SB_RCVENIN_L	TP_SB_RCVENIN_L - @mlb_noldo_lib.MLB_NOLDO	15B2
TP_SB_RSVD9	TP_SB_RSVD9 - @mlb_noldo_lib.MLB_NOLDO	22A6
TP_SB_SATALED_L	TP_SB_SATALED_L - @mlb_noldo_lib.MLB_NOLDO	21C6
TP_SB_XOR-AD5	TP_SB_XOR-AD5 - @mlb_noldo_lib.MLB_NOLDO	22A7
TP_SB_XOR-AD9	TP_SB_XOR-AD9 - @mlb_noldo_lib.MLB_NOLDO	22A7
TP_SB_XOR-AE5	TP_SB_XOR-AE5 - @mlb_noldo_lib.MLB_NOLDO	22A7
TP_SB_XOR-AG4	TP_SB_XOR-AG4 - @mlb_noldo_lib.MLB_NOLDO	22A7
TP_SB_XOR-AH4	TP_SB_XOR-AH4 - @mlb_noldo_lib.MLB_NOLDO	22A7
TP_SB_XOR-U3	TP_SB_XOR-U3 - @mlb_noldo_lib.MLB_NOLDO	21C6
TP_SB_XOR-U7	TP_SB_XOR-U7 - @mlb_noldo_lib.MLB_NOLDO	21C6
TP_SB_XOR-V6	TP_SB_XOR-V6 - @mlb_noldo_lib.MLB_NOLDO	21C6
TP_SB_XOR-V7	TP_SB_XOR-V7 - @mlb_noldo_lib.MLB_NOLDO	21C6
TP_SB_XOR-Y1	TP_SB_XOR-Y1 - @mlb_noldo_lib.MLB_NOLDO	21C6
TP_SB_XOR-Y2	TP_SB_XOR-Y2 - @mlb_noldo_lib.MLB_NOLDO	21C6
TP_SB_XOR_AE9	TP_SB_XOR_AE9 - @mlb_noldo_lib.MLB_NOLDO	22A6
TP_SB_XOR_AG8	TP_SB_XOR_AG8 - @mlb_noldo_lib.MLB_NOLDO	22A6
TP_SB_XOR_AH8	TP_SB_XOR_AH8 - @mlb_noldo_lib.MLB_NOLDO	22A6
TP_SB_XOR_W1	TP_SB_XOR_W1 - @mlb_noldo_lib.MLB_NOLDO	21C6
TP_USBN_F	TP_USBN_F - @mlb_noldo_lib.MLB_NOLDO	5C1
TP_USBP_F	TP_USBP_F - @mlb_noldo_lib.MLB_NOLDO	5C1
TV_DACA_OUT	TV_DACA_OUT - @mlb_noldo_lib.MLB_NOLDO	13C5 69B8
TV_DACB_OUT	TV_DACB_OUT - @mlb_noldo_lib.MLB_NOLDO	13C5 69A8
TV_DACC_OUT	TV_DACC_OUT - @mlb_noldo_lib.MLB_NOLDO	13C5 69A8
TV_IREF	TV_IREF - @mlb_noldo_lib.MLB_NOLDO	13C5 69C8
USB2_BT_F_N	USB2_BT_F_N - @mlb_noldo_lib.MLB_NOLDO	44C4
USB2_BT_F_P	USB2_BT_F_P - @mlb_noldo_lib.MLB_NOLDO	44B4
USB2_CAMERA_CONN_N	USB2_CAMERA_CONN_N - @mlb_noldo_lib.MLB_NOLDO	67A2
USB2_CAMERA_CONN_P	USB2_CAMERA_CONN_P - @mlb_noldo_lib.MLB_NOLDO	67B2
USB2_EXTA_F_N	USB2_EXTA_F_N - @mlb_noldo_lib.MLB_NOLDO	42C2
USB2_EXTA_F_P	USB2_EXTA_F_P - @mlb_noldo_lib.MLB_NOLDO	42C2
USB2_EXTB_F_N	USB2_EXTB_F_N - @mlb_noldo_lib.MLB_NOLDO	42B2
USB2_EXTB_F_P	USB2_EXTB_F_P - @mlb_noldo_lib.MLB_NOLDO	42B2
USB2_GND_EXTA_F	USB2_GND_EXTA_F - @mlb_noldo_lib.MLB_NOLDO	42C2
USB2_GND_EXTB_F	USB2_GND_EXTB_F - @mlb_noldo_lib.MLB_NOLDO	42B2
USB_A_N	USB_A_N - @mlb_noldo_lib.MLB_NOLDO	6C1 22C2

	=USB2_EXTA_N -	6C2 42C5
	@mlb_noldo_lib.MLB_NOLDO	
	USB2_EXTA_N -	6C2
	@mlb_noldo_lib.MLB_NOLDO	
	=USB2_EXTA_N -	6C2 42C5
	@mlb_noldo_lib.MLB_NOLDO	
USB_A_OC_L	USB_A_OC_L -	6C1 22C4 22D8
	@mlb_noldo_lib.MLB_NOLDO	
	=EXTAUSB_OC_L -	6C2 42C8
	@mlb_noldo_lib.MLB_NOLDO	
	EXTAUSB_OC_L -	6C2
	@mlb_noldo_lib.MLB_NOLDO	
	=EXTAUSB_OC_L -	6C2 42C8
	@mlb_noldo_lib.MLB_NOLDO	
USB_A_P	USB_A_P - @mlb_noldo_lib.MLB_NOLDO	6C1 22C2
	=USB2_EXTA_P -	6C2 42C5
	@mlb_noldo_lib.MLB_NOLDO	
	USB2_EXTA_P -	6C2
	@mlb_noldo_lib.MLB_NOLDO	
	=USB2_EXTA_P -	6C2 42C5
	@mlb_noldo_lib.MLB_NOLDO	
USB_B_N	USB_B_N - @mlb_noldo_lib.MLB_NOLDO	6C1 22C2
	=USB2_GEYSER_N -	6C2 40C7
	@mlb_noldo_lib.MLB_NOLDO	
	USB2_GEYSER_N -	6C2
	@mlb_noldo_lib.MLB_NOLDO	
	=USB2_GEYSER_N -	6C2 40C7
	@mlb_noldo_lib.MLB_NOLDO	
USB_B_OC_L	USB_B_OC_L -	22C4 22D8
	@mlb_noldo_lib.MLB_NOLDO	
USB_B_P	USB_B_P - @mlb_noldo_lib.MLB_NOLDO	6C1 22C2
	=USB2_GEYSER_P -	6C2 40C7
	@mlb_noldo_lib.MLB_NOLDO	
	USB2_GEYSER_P -	6C2
	@mlb_noldo_lib.MLB_NOLDO	
	=USB2_GEYSER_P -	6C2 40C7
	@mlb_noldo_lib.MLB_NOLDO	
USB_C_N	USB_C_N - @mlb_noldo_lib.MLB_NOLDO	6C1 22C2
	=USB2_EXTB_N -	6C2 42B5
	@mlb_noldo_lib.MLB_NOLDO	
	USB2_EXTB_N -	6C2
	@mlb_noldo_lib.MLB_NOLDO	
	=USB2_EXTB_N -	6C2 42B5
	@mlb_noldo_lib.MLB_NOLDO	
USB_C_P	USB_C_P - @mlb_noldo_lib.MLB_NOLDO	6C1 22C2
	=USB2_EXTB_P -	6C2 42B5
	@mlb_noldo_lib.MLB_NOLDO	
	USB2_EXTB_P -	6C2
	@mlb_noldo_lib.MLB_NOLDO	
	=USB2_EXTB_P -	6C2 42B5
	@mlb_noldo_lib.MLB_NOLDO	
USB_D_OC_L	USB_D_OC_L -	22C4 22D8
	@mlb_noldo_lib.MLB_NOLDO	
USB_E_N	USB_E_N - @mlb_noldo_lib.MLB_NOLDO	6C1 22C2
	TP_USBN_E -	5C1 6C2
	@mlb_noldo_lib.MLB_NOLDO	
USB_E_OC_L	USB_E_OC_L -	22C4 22D8
	@mlb_noldo_lib.MLB_NOLDO	
USB_E_P	USB_E_P - @mlb_noldo_lib.MLB_NOLDO	6C1 22C2
	TP_USBP_E -	5C1 6C2
	@mlb_noldo_lib.MLB_NOLDO	
USB_F_N	USB_F_N - @mlb_noldo_lib.MLB_NOLDO	6C1 22C2
	=USB2_IR_N -	6C2 41C6
	@mlb_noldo_lib.MLB_NOLDO	
	USB_IR_N - @mlb_noldo_lib.MLB_NOLDO	6C2
	=USB2_IR_N -	6C2 41C6
	@mlb_noldo_lib.MLB_NOLDO	
USB_F_P	USB_F_P - @mlb_noldo_lib.MLB_NOLDO	6C1 22C2
	=USB2_IR_P -	6C2 41C6
	@mlb_noldo_lib.MLB_NOLDO	
	USB_IR_P - @mlb_noldo_lib.MLB_NOLDO	6C2
	=USB2_IR_P -	6C2 41C6
	@mlb_noldo_lib.MLB_NOLDO	
USB_G_N	USB_G_N - @mlb_noldo_lib.MLB_NOLDO	6B1 22C2
	=USB2_BT_N -	6B2 44C6
	@mlb_noldo_lib.MLB_NOLDO	
	USB_BT_N - @mlb_noldo_lib.MLB_NOLDO	6B2
	=USB2_BT_N -	6B2 44C6
	@mlb_noldo_lib.MLB_NOLDO	
USB_G_P	USB_G_P - @mlb_noldo_lib.MLB_NOLDO	6B1 22C2
	=USB2_BT_P -	6C2 44C6
	@mlb_noldo_lib.MLB_NOLDO	
	USB_BT_P - @mlb_noldo_lib.MLB_NOLDO	6C2
	=USB2_BT_P -	6C2 44C6
	@mlb_noldo_lib.MLB_NOLDO	
USB_RBIAS_PN	USB_RBIAS_PN -	22C2
	@mlb_noldo_lib.MLB_NOLDO	
VGA_B	VGA_B - @mlb_noldo_lib.MLB_NOLDO	69B4
VGA_G	VGA_G - @mlb_noldo_lib.MLB_NOLDO	69B4
VGA_HSYNC	VGA_HSYNC -	69B4 69C1
	@mlb_noldo_lib.MLB_NOLDO	
VGA_R	VGA_R - @mlb_noldo_lib.MLB_NOLDO	69A4
VGA_VSYNC	VGA_VSYNC -	69B4 69C1
	@mlb_noldo_lib.MLB_NOLDO	
VOL_DOWN	VOL_DOWN - @mlb_noldo_lib.MLB_NOLDO	54B7 54C7
VOL_UP	VOL_UP - @mlb_noldo_lib.MLB_NOLDO	54B7 54C7
VREG_FB	VREG_FB - @mlb_noldo_lib.MLB_NOLDO	54A4
VR_PWRGD_CK410	VR_PWRGD_CK410 -	23C5 26A8
	@mlb_noldo_lib.MLB_NOLDO	
VR_PWRGOOD_DELAY	VR_PWRGOOD_DELAY -	14B6 26B5 58C7
	@mlb_noldo_lib.MLB_NOLDO	
XDP_BPM_L<0>	XDP_BPM_L<0> -	7C6 11B2
	@mlb_noldo_lib.MLB_NOLDO	
XDP_BPM_L<1>	XDP_BPM_L<1> -	7C6 11B2
	@mlb_noldo_lib.MLB_NOLDO	
XDP_BPM_L<2>	XDP_BPM_L<2> -	7C6 11B2
	@mlb_noldo_lib.MLB_NOLDO	
XDP_BPM_L<3>	XDP_BPM_L<3> -	7C6 11B3
	@mlb_noldo_lib.MLB_NOLDO	
XDP_BPM_L<4>	XDP_BPM_L<4> -	7C6 11B2
	@mlb_noldo_lib.MLB_NOLDO	
XDP_BPM_L<5>	XDP_BPM_L<5> -	7C6 11B2
	@mlb_noldo_lib.MLB_NOLDO	
XDP_DBRESET_L	XDP_DBRESET_L -	7C6 11B4 26C6
	@mlb_noldo_lib.MLB_NOLDO	
XDP_TCK	XDP_TCK - @mlb_noldo_lib.MLB_NOLDO	7A8 7C6 11B2 11B3
XDP_TDI	XDP_TDI - @mlb_noldo_lib.MLB_NOLDO	7B8 7C6 11B3
XDP_TDO	XDP_TDO - @mlb_noldo_lib.MLB_NOLDO	7C6 11B5
XDP_TMS	XDP_TMS - @mlb_noldo_lib.MLB_NOLDO	7B8 7C6 11B2
XDP_TRST_L	XDP_TRST_L -	7C6 11B3
	@mlb_noldo_lib.MLB_NOLDO	

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C0607	CAP_402	mlb_noldo[6C7]
C0608	CAP_402	mlb_noldo[6C7]
C0610	CAP_402	mlb_noldo[6C7]
C0611	CAP_402	mlb_noldo[6C7]
C0612	CAP_402	mlb_noldo[6A8]
C0613	CAP_402	mlb_noldo[6A8]
C0614	CAP_402	mlb_noldo[6B7]
C0615	CAP_402	mlb_noldo[6B7]
C0616	CAP_402	mlb_noldo[6B7]
C0617	CAP_402	mlb_noldo[6B7]
C0618	CAP_402	mlb_noldo[6A8]
C0619	CAP_402	mlb_noldo[6A7]
C0630	CAP_402	mlb_noldo[6C7]
C0900	CAP_805	mlb_noldo[9B5]
C0901	CAP_805	mlb_noldo[9B6]
C0902	CAP_805	mlb_noldo[9A5]
C0904	CAP_805	mlb_noldo[9A6]
C0907	CAP_805	mlb_noldo[9B4]
C0908	CAP_805	mlb_noldo[9B6]
C0909	CAP_805	mlb_noldo[9B5]
C0910	CAP_805	mlb_noldo[9B7]
C0911	CAP_805	mlb_noldo[9B7]
C0912	CAP_805	mlb_noldo[9A6]
C0913	CAP_805	mlb_noldo[9A7]
C0918	CAP_805	mlb_noldo[9A7]
C0920	CAP_805	mlb_noldo[9A4]
C0923	CAP_805	mlb_noldo[9B7]
C0924	CAP_805	mlb_noldo[9A7]
C0926	CAP_402	mlb_noldo[9B7]
C0928	CAP_805	mlb_noldo[9B5]
C0929	CAP_805	mlb_noldo[9B4]
C0930	CAP_805	mlb_noldo[9A5]
C0931	CAP_805	mlb_noldo[9A5]
C0934	CAP_402	mlb_noldo[9B7]
C0935	CAP_402	mlb_noldo[9B7]
C0936	CAP_402	mlb_noldo[9B6]
C0937	CAP_402	mlb_noldo[9B6]
C0938	CAP_402	mlb_noldo[9B5]
C0939	CAP_805	mlb_noldo[9A4]
C0940	CAP_P_3P_D2T	mlb_noldo[9B5]
C0941	CAP_P_3P_D2T	mlb_noldo[9A7]
C0942	CAP_P_3P_D2T	mlb_noldo[9A7]
C0943	CAP_P_3P_D2T	mlb_noldo[9A6]
C0944	CAP_P_3P_D2T	mlb_noldo[9A6]
C0946	CAP_P_3P_D2T	mlb_noldo[9A5]
C0950	CAP_402	mlb_noldo[9D7]
C0951	CAP_603	mlb_noldo[9D7]
C1001	CAP_402	mlb_noldo[10B5]
C1002	CAP_402	mlb_noldo[10C4]
C1100	CAP_402	mlb_noldo[11B3]
C1211	CAP_402	mlb_noldo[12C3]
C1226	CAP_402	mlb_noldo[12B6]
C1236	CAP_402	mlb_noldo[12A6]
C1415	CAP_402	mlb_noldo[14C3]
C1416	CAP_402	mlb_noldo[14C2]
C1610	CAP_402	mlb_noldo[16B5]
C1611	CAP_402	mlb_noldo[16B4]
C1612	CAP_402	mlb_noldo[16B4]
C1613	CAP_402	mlb_noldo[16B8]
C1614	CAP_402	mlb_noldo[16B8]
C1615	CAP_402	mlb_noldo[16B6]
C1620	CAP_603	mlb_noldo[16B5]
C1621	CAP_603	mlb_noldo[16B5]
C1711	CAP_402	mlb_noldo[17A3]
C1712	CAP_402	mlb_noldo[17A3]
C1713	CAP_402	mlb_noldo[17B3]
C1900	CAP_P_3P_D2T	mlb_noldo[19B8]
C1902	CAP_603	mlb_noldo[19B7]
C1903	CAP_603	mlb_noldo[19B7]
C1904	CAP_402	mlb_noldo[19B6]
C1905	CAP_402	mlb_noldo[19B6]
C1906	CAP_402	mlb_noldo[19B6]
C1907	CAP_402	mlb_noldo[19B5]
C1910	CAP_603	mlb_noldo[19B8]
C1911	CAP_402	mlb_noldo[19B7]
C1912	CAP_603	mlb_noldo[19B8]
C1913	CAP_402	mlb_noldo[19B7]
C1914	CAP_603	mlb_noldo[19B6]
C1915	CAP_402	mlb_noldo[19B6]
C1916	CAP_402	mlb_noldo[19B6]
C1917	CAP_402	mlb_noldo[19B5]
C1918	CAP_402	mlb_noldo[19B5]
C1920	CAP_402	mlb_noldo[19A6]
C1921	FILTER_3P_A_NFM18	mlb_noldo[19A6]
C1922	CAP_402	mlb_noldo[19A6]
C1923	FILTER_3P_A_NFM18	mlb_noldo[19A6]
C1934	CAP_805	mlb_noldo[19C5]
C1935	CAP_402	mlb_noldo[19C5]
C1936	CAP_805	mlb_noldo[19C5]
C1937	CAP_402	mlb_noldo[19C5]
C1940	CAP_402	mlb_noldo[19C4]
C1941	CAP_402	mlb_noldo[19C3]
C1942	CAP_402	mlb_noldo[19C3]
C1950	CAP_402	mlb_noldo[19D6]
C1951	CAP_402	mlb_noldo[19D5]
C1952	CAP_603	mlb_noldo[19D5]
C1953	CAP_402	mlb_noldo[19D4]
C1954	CAP_402	mlb_noldo[19C4]
C1965	CAP_603	mlb_noldo[19B4]
C1966	CAP_603	mlb_noldo[19B4]
C1967	CAP_402	mlb_noldo[19B4]
C1970	CAP_P_SMB2	mlb_noldo[19A4]
C1971	CAP_603	mlb_noldo[19A3]
C1972	CAP_603	mlb_noldo[19A3]
C1975	CAP_603	mlb_noldo[19A3]
C1976	CAP_402	mlb_noldo[19A3]
C1980	CAP_402	mlb_noldo[19D2]
C1981	CAP_402	mlb_noldo[19D2]
C1985	CAP_402	mlb_noldo[19C2]
C1986	FILTER_3P_A_NFM18	mlb_noldo[19D2]
C1990	CAP_603	mlb_noldo[19C2]
C1991	CAP_402	mlb_noldo[19C2]
C1992	FILTER_3P_A_NFM18	mlb_noldo[19C2]
C1993	CAP_402	mlb_noldo[19B2]
C1994	FILTER_3P_A_NFM18	mlb_noldo[19B2]
C1995	CAP_402	mlb_noldo[19B2]
C1996	FILTER_3P_A_NFM18	mlb_noldo[19B2]
C1997	CAP_402	mlb_noldo[19A2]
C1998	FILTER_3P_A_NFM18	mlb_noldo[19A2]
C2500	CAP_P_SMB2	mlb_noldo[25B8]
C2501	CAP_402	mlb_noldo[25A6]
C2502	CAP_402	mlb_noldo[25D4]
C2503	CAP_402	mlb_noldo[25D8]
C2504	CAP_402	mlb_noldo[25C8]
C2505	CAP_402	mlb_noldo[25B7]
C2506	CAP_402	mlb_noldo[25B7]
C2507	CAP_402	mlb_noldo[25B7]
C2508	CAP_603	mlb_noldo[25A6]
C2509	CAP_402	mlb_noldo[25B8]
C2510	CAP_402	mlb_noldo[25C1]
C2511	CAP_402	mlb_noldo[25D6]
C2512	CAP_402	mlb_noldo[25B1]
C2513	CAP_402	mlb_noldo[25C6]
C2514	CAP_402	mlb_noldo[25C6]
C2515	CAP_402	mlb_noldo[25B6]
C2516	CAP_P_CASE-C2	mlb_noldo[25D3]
C2517	CAP_402	mlb_noldo[25D6]
C2518	CAP_402	mlb_noldo[25D4]
C2519	CAP_402	mlb_noldo[25D3]
C2520	CAP_402	mlb_noldo[25B6]
C2521	CAP_402	mlb_noldo[25C3]
C2522	CAP_402	mlb_noldo[25B3]
C2523	CAP_402	mlb_noldo[25B4]
C2524	CAP_603	mlb_noldo[25B3]
C2525	CAP_402	mlb_noldo[25B3]
C2526	CAP_402	mlb_noldo[25A4]
C2527	CAP_402	mlb_noldo[25A3]
C2528	CAP_402	mlb_noldo[25A3]
C2529	CAP_402	mlb_noldo[25A3]
C2530	CAP_402	mlb_noldo[25A3]
C2531	CAP_402	mlb_noldo[25D1]
C2532	CAP_402	mlb_noldo[25C1]
C2533	CAP_402	mlb_noldo[25C1]
C2534	CAP_402	mlb_noldo[25D1]
C2605	CAP_402	mlb_noldo[26D4]
C2607	CAP_402	mlb_noldo[26B5]
C2608	CAP_402	mlb_noldo[26C7]
C2609	CAP_402	mlb_noldo[26C7]
C2610	CAP_402	mlb_noldo[26D4]
C2611	CAP_402	mlb_noldo[26B8]
C2680	CAP_402	mlb_noldo[26B3]
C2800	CAP_402	mlb_noldo[28D7]
C2809	CAP_603	mlb_noldo[28B2]
C2810	CAP_402	mlb_noldo[28B2]
C2811	CAP_402	mlb_noldo[28B2]
C2812	CAP_402	mlb_noldo[28B1]
C2813	CAP_402	mlb_noldo[28B1]
C2814	CAP_402	mlb_noldo[28B2]
C2815	CAP_402	mlb_noldo[28B2]
C2816	CAP_402	mlb_noldo[28B1]
C2817	CAP_402	mlb_noldo[28B1]
C2820	CAP_402	mlb_noldo[28D7]
C2821	CAP_402	mlb_noldo[28A7]
C2822	CAP_402	mlb_noldo[28A7]
C2830	CAP_402	mlb_noldo[28B2]
C2831	CAP_402	mlb_noldo[28B2]
C2832	CAP_402	mlb_noldo[28B1]
C2900	CAP_402	mlb_noldo[29D7]
C2909	CAP_603	mlb_noldo[29B2]
C2910	CAP_402	mlb_noldo[29B2]
C2911	CAP_402	mlb_noldo[29B2]
C2912	CAP_402	mlb_noldo[29B1]
C2913	CAP_402	mlb_noldo[29B1]
C2914	CAP_402	mlb_noldo[29B2]
C2915	CAP_402	mlb_noldo[29B2]
C2916	CAP_402	mlb_noldo[29B1]
C2917	CAP_402	mlb_noldo[29B1]
C2920	CAP_402	mlb_noldo[29D7]
C2921	CAP_402	mlb_noldo[29A7]
C2922	CAP_402	mlb_noldo[29A7]
C2930	CAP_402	mlb_noldo[29B2]
C2931	CAP_402	mlb_noldo[29B2]
C2932	CAP_402	mlb_noldo[29B1]
C3000	CAP_402	mlb_noldo[30D4]
C3001	CAP_402	mlb_noldo[30D3]
C3002	CAP_402	mlb_noldo[30D4]
C3003	CAP_402	mlb_noldo[30D3]
C3004	CAP_402	mlb_noldo[30D4]
C3005	CAP_402	mlb_noldo[30D3]
C3006	CAP_402	mlb_noldo[30C4]
C3007	CAP_402	mlb_noldo[30C3]
C3008	CAP_402	mlb_noldo[30C4]
C3009	CAP_402	mlb_noldo[30C3]
C3010	CAP_402	mlb_noldo[30C4]
C3011	CAP_402	mlb_noldo[30C3]
C3012	CAP_402	mlb_noldo[30B4]
C3013	CAP_402	mlb_noldo[30B3]
C3014	CAP_402	mlb_noldo[30B4]
C3015	CAP_402	mlb_noldo[30B3]
C3016	CAP_402	mlb_noldo[30B4]
C3017	CAP_402	mlb_noldo[30B3]
C3018	CAP_402	mlb_noldo[30B4]
C3019	CAP_402	mlb_noldo[30B3]
C3020	CAP_402	mlb_noldo[30A4]
C3021	CAP_402	mlb_noldo[30A3]
C3022	CAP_402	mlb_noldo[30A4]
C3023	CAP_402	mlb_noldo[30A3]
C3024	CAP_402	mlb_noldo[30A4]
C3025	CAP_402	mlb_noldo[30A3]
C3100	CAP_402	mlb_noldo[31C4]
C3101	CAP_603	mlb_noldo[31B5]
C3102	CAP_603	mlb_noldo[31B3]
C3103	CAP_402	mlb_noldo[31B5]
C3104	CAP_603	mlb_noldo[31C4]
C3105	CAP_P_SMC-LF	mlb_noldo[31B4]
C3301	CAP_402	mlb_noldo[32D6]
C3302	CAP_402	mlb_noldo[32D6]
C3303	CAP_402	mlb_noldo[32D6]
C3304	CAP_402	mlb_noldo[32D6]
C3305	CAP_402	mlb_noldo[32D4]
C3306	CAP_402	mlb_noldo[32D4]
C3307	CAP_402	mlb_noldo[32C4]
C3308	CAP_402	mlb_noldo[32D4]
C3309	CAP_603	mlb_noldo[32D4]
C3310	CAP_402	mlb_noldo[32D3]
C3311	CAP_402	mlb_noldo[32C6]
C3312	CAP_603	mlb_noldo[32C6]
C3314	CAP_402	mlb_noldo[32D8]
C3315	CAP_402	mlb_noldo[32D7]
C3316	CAP_603	mlb_noldo[32D7]
C3317	CAP_603	mlb_noldo[32D4]
C3389	CAP_402	mlb_noldo[32C7]
C3390	CAP_402	mlb_noldo[32C7]
C3804	CAP_402	mlb_noldo[34B5]
C3805	CAP_402	mlb_noldo[34B3]
C3806	CAP_603	mlb_noldo[34B3]
C3875	CAP_402	mlb_noldo[34C7]
C3876	CAP_402	mlb_noldo[34C5]
C3900	CAP_402	mlb_noldo[35D6]
C3901	CAP_402	mlb_noldo[35D5]
C3902	CAP_402	mlb_noldo[35C6]
C3903	CAP_402	mlb_noldo[35D5]
C3920	CAP_402	mlb_noldo[35C7]
C3921	CAP_603	mlb_noldo[35C6]
C3922	CAP_402	mlb_noldo[35C5]
C3923	CAP_402	mlb_noldo[35C6]
C3950	CAP_603	mlb_noldo[35B8]
C4100	CAP_402	mlb_noldo[36D6]
C4101	CAP_402	mlb_noldo[36D6]
C4102	CAP_402	mlb_noldo[36D5]
C4103	CAP_402	mlb_noldo[36D5]
C4104	CAP_402	mlb_noldo[36D5]
C4105	CAP_402	mlb_noldo[36D5]
C4106	CAP_402	mlb_noldo[36D4]
C4107	CAP_402	mlb_noldo[36D4]
C4110	CAP_402	mlb_noldo[36D5]
C4111	CAP_402	mlb_noldo[36D5]
C4112	CAP_402	mlb_noldo[36C5]
C4113	CAP_402	mlb_noldo[36C5]
C4115	CAP_402	mlb_noldo[36B4]
C4116	CAP_402	mlb_noldo[36B4]
C4117	CAP_402	mlb_noldo[36B3]
C4118	CAP_402	mlb_noldo[36B3]
C4126	CAP_402	mlb_noldo[36A8]
C4127	CAP_402	mlb_noldo[36A8]
C4128	CAP_402	mlb_noldo[36A7]
C4129	CAP_402	mlb_noldo[36A7]
C4130	CAP_402	mlb_noldo[36A7]
C4131	CAP_402	mlb_noldo[36A6]
C4132	CAP_402	mlb_noldo[36A6]
C4133	CAP_402	mlb_noldo[36A6]
C4134	CAP_402	mlb_noldo[36A6]
C4135	CAP_402	mlb_noldo[36A5]
C4136	CAP_402	mlb_noldo[36A5]
C4137	CAP_402	mlb_noldo[36A4]
C4138	CAP_402	mlb_noldo[36A4]
C4139	CAP_402	mlb_noldo[36A4]
C4140	CAP_402	mlb_noldo[36B3]
C4150	CAP_402	mlb_noldo[36B6]
C4151	CAP_402	mlb_noldo[36B6]
C4200	CAP_402	mlb_noldo[37C7]
C4201	CAP_402	mlb_noldo[37C6]
C4202	CAP_402	mlb_noldo[37C6]
C4203	CAP_402	mlb_noldo[37C6]
C4204	CAP_402	mlb_noldo[37C7]
C4205	CAP_402	mlb_noldo[37C6]
C4206	CAP_402	mlb_noldo[37C6]
C4207	CAP_402	mlb_noldo[37C6]
C4210	CAP_1808	mlb_noldo[37A6]
C4211	CAP_402	mlb_noldo[37A6]
C4212	CAP_402	mlb_noldo[37A5]
C4411	CAP_402	mlb_noldo[38C2]
C4412	CAP_402	mlb_noldo[38C2]
C4416	CAP_603	mlb_noldo[38D4]
C4417	CAP_402	mlb_noldo[38D4]
C4418	CAP_402	mlb_noldo[38D4]
C4420	CAP_402	mlb_noldo[38C3]
C4422	CAP_402	mlb_noldo[38D4]
C4424	CAP_603	mlb_noldo[38D5]
C4425	CAP_402	mlb_noldo[38D3]
C4426	CAP_402	mlb_noldo[38D4]
C4428	CAP_402	mlb_noldo[38D3]
C4429	CAP_402	mlb_noldo[38D3]
C4430	CAP_402	mlb_noldo[38D3]
C4432	CAP_402	mlb_noldo[38D3]
C4500	CAP_402	mlb_noldo[39B5]
C4501	CAP_402	mlb_noldo[39A5]
C4510	CAP_402	mlb_noldo[39C3]
C4520	CAP_402	mlb_noldo[39B4]
C4521	CAP_402	mlb_noldo[39B3]
C4522	CAP_402	mlb_noldo[39A4]
C4523	CAP_402	mlb_noldo[39A3]
C4524	CAP_603-1	mlb_noldo[39A2]
C4525	CAP_402	mlb_noldo[39A2]
C4551	CAP_402	mlb_noldo[39A7]
C4552	CAP_402	mlb_noldo[39A7]
C4590	CAP_402	mlb_noldo[39C5]
C4900	CAP_402	mlb_noldo[40C4]
C4910	CAP_402	mlb_noldo[40C6]
C5100	CAP_402	mlb_noldo[41D6]
C5101	CAP_402	mlb_noldo[41D6]
C5102	CAP_402	mlb_noldo[41B5]
C5202	CAP_402	mlb_noldo[42C2]
C5203	CAP_402	mlb_noldo[42C2]
C5206	CAP_402	mlb_noldo[42B2]
C5207	CAP_402	mlb_noldo[42B2]
C5208	CAP_402	mlb_noldo[42C6]
C5209	CAP_402	mlb_noldo[42B6]
C5210	CAP_P_B2	mlb_noldo[42C6]
C5211	CAP_P_B2	mlb_noldo[42B6]
C5212	CAP_402	mlb_noldo[42C8]
C5213	CAP_603	mlb_noldo[42C8]
C5250	CAP_402	mlb_noldo[42C8]
C5251	CAP_402	mlb_noldo[42B8]
C5300	CAP_402	mlb_noldo[43B6]
C5301	CAP_402	mlb_noldo[43B6]
C5304	CAP_402	mlb_noldo[43D4]
C5305	CAP_402	mlb_noldo[43D4]
C5306	CAP_402	mlb_noldo[43D4]
C5307	CAP_402	mlb_noldo[43C4]
C5308	CAP_402	mlb_noldo[43C4]
C5309	CAP_603	mlb_noldo[43C3]
C5310	CAP_402	mlb_noldo[43C3]
C5498	CAP_402	mlb_noldo[44C5]
C5499	CAP_603	mlb_noldo[44C5]
C5802	CAP_805	mlb_noldo[45D3]
C5803	CAP_402	mlb_noldo[45D2]
C5804	CAP_402	mlb_noldo[45D2]
C5805	CAP_402	mlb_noldo[45D2]
C5806	CAP_402	mlb_noldo[45D1]
C5807	CAP_402	mlb_noldo[45D2]
C5820	CAP_402	mlb_noldo[45C3]
C5900	CAP_402	mlb_noldo[46D8]
C5901	CAP_402	mlb_noldo[46D8]
C5910	CAP_603	mlb_noldo[46A7]
C5911	CAP_402	mlb_noldo[46A7]
C5920	CAP_402	mlb_noldo[46C6]
C5921	CAP_402	mlb_noldo[46C6]
C5951	CAP_402	mlb_noldo[46A4]
C5965	CAP_402	mlb_noldo[46B8]
C5966	CAP_603	mlb_noldo[46B7]
C5967	CAP_402	mlb_noldo[46B7]
C5977	CAP_402	mlb_noldo[46C2]
C6100	CAP_402	mlb_noldo[48D3]
C6101	CAP_402	mlb_noldo[48C3]
C6102	CAP_402	mlb_noldo[48C2]
C6103	CAP_402	mlb_noldo[48C3]
C6104	CAP_402	mlb_noldo[48B4]
C6105	CAP_402	mlb_noldo[48C4]
C6112	CAP_402	mlb_noldo[48B2]
C6150	CAP_402	mlb_noldo[48C6]
C6200	CAP_402	mlb_noldo[49C5]
C6201	CAP_402	mlb_noldo[49C5]
C6202	CAP_402	mlb_noldo[49D4]
C6250	CAP_402	mlb_noldo[49B5]
C6251	CAP_402	mlb_noldo[49A5]
C6252	CAP_402	mlb_noldo[49B4]
C6301	CAP_402	mlb_noldo[50C2]
C6308	CAP_402	mlb_noldo[50C5]
C6309	CAP_402	mlb_noldo[50C6]
C6311	CAP_402	mlb_noldo[50C2]
C6312	CAP_402	mlb_noldo[50D3]
C6604	CAP_402	mlb_noldo[52B4]
C6605	CAP_402	mlb_noldo[52B4]
C6606	CAP_402	mlb_noldo[52B4]
C6620	CAP_402	mlb_noldo[52C4]
C6700	CAP_402	mlb_noldo[53C4]
C6701	CAP_402	mlb_noldo[53C4]
C6702	CAP_402	mlb_noldo[53C3]
C6703	CAP_402	mlb_noldo[53C3]
C6795	CAP_402	mlb_noldo[53C6]
C6796	CAP_402	mlb_noldo[53B6]
C6800	CAP_603	mlb_noldo[54D6]
C6801	CAP_402	mlb_noldo[54D6]
C6802	CAP_P_CASE-B3-LF	mlb_noldo[54D4]
C6803	CAP_P_CASE-B3-LF	mlb_noldo[54D3]
C6804	CAP_P_SMA-LF	mlb_noldo[54B4]
C6805	CAP_603	mlb_noldo[54B4]
C6806	CAP_603	mlb_noldo[54B3]
C6807	CAP_P_SMA-LF	mlb_noldo[54B3]
C6810	CAP_P_SMA-LF	mlb_noldo[54B2]
C6812	CAP_402	mlb_noldo[54B4]
C6813	CAP_402	mlb_noldo[54B3]
C6821	CAP_402	mlb_noldo[54C6]
C6822	CAP_603	mlb_noldo[54A5]
C6823	CAP_402	mlb_noldo[54A5]
C6825	CAP_402	mlb_noldo[54B4]
C6830	CAP_402	mlb_noldo[54D4]
C6833	CAP_402	mlb_noldo[54B2]
C6835	CAP_402	mlb_noldo[54D6]
C6836	CAP_402	mlb_noldo[54D3]
C6853	CAP_402	mlb_noldo[54B4]
C7200	CAP_P_SMC-LF	mlb_noldo[55D6]
C7201	CAP_P_CASE-B3-LF	mlb_noldo[55C4]
C7202	CAP_603	mlb_noldo[55C4]
C7203	CAP_P_CASE-B3-LF	mlb_noldo[55B4]
C7204	CAP_603	mlb_noldo[55B4]
C7205	CAP_P_CASE-B2	mlb_noldo[55B4]
C7206	CAP_603	mlb_noldo[55B4]
C7207	CAP_402	mlb_noldo[55C5]
C7208	CAP_402	mlb_noldo[55B5]
C7209	CAP_402	mlb_noldo[55B5]
C7210	CAP_402	mlb_noldo[55C6]
C7211	CAP_402	mlb_noldo[55C5]
C7220	CAP_402	mlb_noldo[55B6]
C7221	CAP_402	mlb_noldo[55B5]
C7230	CAP_402	mlb_noldo[55A6]
C7231	CAP_402	mlb_noldo[55A5]
C7260	CAP_402	mlb_noldo[55D2]
C7261	CAP_402	mlb_noldo[55C2]
C7270	CAP_402	mlb_noldo[55C2]
C7271	CAP_402	mlb_noldo[55B2]
C7280	CAP_402	mlb_noldo[55B2]
C7281	CAP_402	mlb_noldo[55B2]
C7300	CAP_402	mlb_noldo[56C7]
C7301	CAP_402	mlb_noldo[56C5]
C7302	CAP_402	mlb_noldo[56C5]
C7303	CAP_402	mlb_noldo[56C5]
C7304	CAP_402	mlb_noldo[56C5]
C7305	CAP_402	mlb_noldo[56C5]
C7306	CAP_402	mlb_noldo[56C8]
C7307	CAP_402	mlb_noldo[56C6]
C7308	CAP_402	mlb_noldo[56C6]
C7350	CAP_402	mlb_noldo[56A7]
C7351	CAP_603	mlb_noldo[56A7]
C7352	CAP_402	mlb_noldo[56A5]
C7353	CAP_402	mlb_noldo[56A5]
C7354	CAP_402	mlb_noldo[56A5]
C7355	CAP_402	mlb_noldo[56A5]
C7356	CAP_402	mlb_noldo[56A5]
C7357	CAP_402	mlb_noldo[56A8]
C7370	CAP_402	mlb_noldo[56A2]
C7371	CAP_402	mlb_noldo[56A2]
C7372	CAP_402	mlb_noldo[56A1]
C7400	CAP_402	mlb_noldo[57B4]
C7401	CAP_402	mlb_noldo[57D7]
C7402	CAP_402	mlb_noldo[57C7]
C7404	CAP_402	mlb_noldo[57C4]
C7411	CAP_402	mlb_noldo[57B7]
C7412	CAP_402	mlb_noldo[57B6]
C7414	CAP_402	mlb_noldo[57C4]
C7430	CAP_P_B2	mlb_noldo[57D2]
C7431	CAP_P_B2	mlb_noldo[57C2]
C7432	CAP_805-1	mlb_noldo[57B2]
C7433	CAP_805-1	mlb_noldo[57A2]
C7435	CAP_402	mlb_noldo[57B1]
C7440	CAP_402	mlb_noldo[57A4]
C7441	CAP_402	mlb_noldo[57A4]
C7445	CAP_402	mlb_noldo[57A3]
C7446	CAP_402	mlb_noldo[57A3]
C7447	CAP_402	mlb_noldo[57A3]
C7450	CAP_402	mlb_noldo[57A6]
C7451	CAP_402	mlb_noldo[57A7]
C7452	CAP_402	mlb_noldo[57A6]
C7500	CAP_402	mlb_noldo[58C4]
C7501	CAP_P_CASED2E-SM	mlb_noldo[58C3]
C7502	CAP_402	mlb_noldo[58B4]
C7503	CAP_402	mlb_noldo[58C2]
C7504	CAP_402	mlb_noldo[58B2]
C7505	CAP_402	mlb_noldo[58C8]
C7506	CAP_402	mlb_noldo[58B8]

C7507	CAP_402	mlb_noldo[58B7]
C7508	CAP_P_CASED2E-SM	mlb_noldo[58C3]
C7509	CAP_P_CASED2E-SM	mlb_noldo[58D3]
C7510	CAP_402	mlb_noldo[58C8]
C7511	CAP_402	mlb_noldo[58B3]
C7512	CAP_402	mlb_noldo[58C3]
C7513	CAP_402	mlb_noldo[58B7]
C7514	CAP_402	mlb_noldo[58B8]
C7515	CAP_402	mlb_noldo[58C5]
C7516	CAP_402	mlb_noldo[58B4]
C7517	CAP_P_CASED2E-SM	mlb_noldo[58D3]
C7518	CAP_603	mlb_noldo[58D2]
C7521	CAP_402	mlb_noldo[58A6]
C7526	CAP_603	mlb_noldo[58D7]
C7527	CAP_402	mlb_noldo[58C5]
C7528	CAP_402	mlb_noldo[58B5]
C7529	CAP_402	mlb_noldo[58B5]
C7530	CAP_402	mlb_noldo[58C7]
C7531	CAP_402	mlb_noldo[58B5]
C7532	CAP_402	mlb_noldo[58B6]
C7533	CAP_402	mlb_noldo[58B6]
C7534	CAP_402	mlb_noldo[58B5]
C7535	CAP_603	mlb_noldo[58D6]
C7590	CAP_402	mlb_noldo[58C3]
C7592	CAP_402	mlb_noldo[58B3]
C7596	CAP_402	mlb_noldo[58D7]
C7599	CAP_603	mlb_noldo[58C2]
C7600	CAP_603	mlb_noldo[59C4]
C7601	CAP_603	mlb_noldo[59A4]
C7602	CAP_402	mlb_noldo[59A4]
C7604	CAP_402	mlb_noldo[59A2]
C7605	CAP_402	mlb_noldo[59A5]
C7607	CAP_402	mlb_noldo[59A3]
C7608	CAP_402	mlb_noldo[59D2]
C7609	CAP_402	mlb_noldo[59D7]
C7621	CAP_402	mlb_noldo[59B6]
C7622	CAP_402	mlb_noldo[59C5]
C7624	CAP_402	mlb_noldo[59C6]
C7625	CAP_402	mlb_noldo[59B6]
C7626	CAP_402	mlb_noldo[59B6]
C7628	CAP_402	mlb_noldo[59B7]
C7629	CAP_402	mlb_noldo[59B7]
C7630	CAP_402	mlb_noldo[59B5]
C7631	CAP_402	mlb_noldo[59C7]
C7632	CAP_402	mlb_noldo[59C2]
C7640	CAP_P_CASED2E-SM	mlb_noldo[59D6]
C7641	CAP_603	mlb_noldo[59D6]
C7650	CAP_805	mlb_noldo[59B7]
C7651	CAP_805	mlb_noldo[59B8]
C7652	CAP_P_SMC-LF	mlb_noldo[59B8]
C7661	CAP_402	mlb_noldo[59B3]
C7662	CAP_402	mlb_noldo[59C4]
C7664	CAP_402	mlb_noldo[59C3]
C7665	CAP_402	mlb_noldo[59B4]
C7666	CAP_402	mlb_noldo[59B3]
C7668	CAP_402	mlb_noldo[59B2]
C7669	CAP_402	mlb_noldo[59B2]
C7670	CAP_402	mlb_noldo[59B4]
C7680	CAP_P_CASED2E-SM	mlb_noldo[59D3]
C7681	CAP_603	mlb_noldo[59D4]
C7689	CAP_402	mlb_noldo[59B4]
C7690	CAP_805	mlb_noldo[59B2]
C7691	CAP_805	mlb_noldo[59B1]
C7692	CAP_P_SMC-LF	mlb_noldo[59B1]
C7700	CAP_603	mlb_noldo[60C4]
C7701	CAP_402	mlb_noldo[60C3]
C7702	CAP_603	mlb_noldo[60C3]
C7703	CAP_603	mlb_noldo[60C4]
C7704	CAP_402	mlb_noldo[60C3]
C7705	CAP_603	mlb_noldo[60C3]
C7720	CAP_402	mlb_noldo[60B4]
C7721	CAP_603	mlb_noldo[60B3]
C7750	CAP_402	mlb_noldo[60C6]
C7800	CAP_603	mlb_noldo[61C5]
C7801	CAP_603	mlb_noldo[61C6]
C7802	CAP_603	mlb_noldo[61C5]
C7803	CAP_402	mlb_noldo[61B2]
C7804	CAP_402	mlb_noldo[61C2]
C7805	CAP_402	mlb_noldo[61C2]
C7806	CAP_402	mlb_noldo[61B7]
C7807	CAP_402	mlb_noldo[61B6]
C7808	CAP_402	mlb_noldo[61B6]
C7809	CAP_402	mlb_noldo[61C4]
C7810	CAP_402	mlb_noldo[61B4]
C7830	CAP_P_CASED2E-SM	mlb_noldo[61C4]
C7831	CAP_603	mlb_noldo[61C4]
C7840	CAP_805	mlb_noldo[61B3]
C7841	CAP_805	mlb_noldo[61B3]
C7842	CAP_P_CASE-D2E-LF	mlb_noldo[61B3]
C7843	CAP_P_CASE-D2E-LF	mlb_noldo[61B2]
C7864	CAP_402	mlb_noldo[61C2]
C7900	CAP_603	mlb_noldo[62C4]
C7901	CAP_603	mlb_noldo[62A4]
C7902	CAP_402	mlb_noldo[62A4]
C7903	CAP_402	mlb_noldo[62A6]
C7904	CAP_402	mlb_noldo[62A2]
C7905	CAP_402	mlb_noldo[62A5]
C7906	CAP_402	mlb_noldo[62A6]
C7907	CAP_402	mlb_noldo[62A3]
C7908	CAP_402	mlb_noldo[62D2]
C7909	CAP_402	mlb_noldo[62C7]
C7921	CAP_402	mlb_noldo[62B6]
C7922	CAP_402	mlb_noldo[62C5]
C7924	CAP_402	mlb_noldo[62C6]
C7925	CAP_402	mlb_noldo[62B6]
C7926	CAP_402	mlb_noldo[62B6]
C7928	CAP_402	mlb_noldo[62B7]
C7929	CAP_402	mlb_noldo[62B7]
C7930	CAP_402	mlb_noldo[62B5]
C7931	CAP_402	mlb_noldo[62C7]
C7932	CAP_402	mlb_noldo[62C2]
C7940	CAP_P_CASED2E-SM	mlb_noldo[62C6]
C7941	CAP_603	mlb_noldo[62C6]
C7950	CAP_805	mlb_noldo[62B8]
C7952	CAP_P_CASE-D2E-LF	mlb_noldo[62B8]
C7961	CAP_402	mlb_noldo[62B3]
C7962	CAP_402	mlb_noldo[62C4]
C7964	CAP_402	mlb_noldo[62C3]
C7965	CAP_402	mlb_noldo[62B3]
C7966	CAP_402	mlb_noldo[62B3]
C7968	CAP_402	mlb_noldo[62B2]
C7969	CAP_402	mlb_noldo[62B2]
C7970	CAP_402	mlb_noldo[62B4]
C7980	CAP_P_CASED2E-SM	mlb_noldo[62C4]
C7981	CAP_603	mlb_noldo[62C4]
C7989	CAP_402	mlb_noldo[62B4]
C7990	CAP_805	mlb_noldo[62A7]
C7991	CAP_805	mlb_noldo[62A7]
C7992	CAP_P_CASE-D2E-LF	mlb_noldo[62B1]
C7999	CAP_402	mlb_noldo[62A6]
C8000	CAP_402	mlb_noldo[63D4]
C8005	CAP_402	mlb_noldo[63C4]
C8010	CAP_402	mlb_noldo[63C4]
C8015	CAP_402	mlb_noldo[63B4]
C8025	CAP_402	mlb_noldo[63A4]
C8060	CAP_402	mlb_noldo[63B3]
C8061	CAP_402	mlb_noldo[63B2]
C8062	CAP_402	mlb_noldo[63B2]
C8090	CAP_1206-1	mlb_noldo[63C3]
C8091	CAP_402	mlb_noldo[63D2]
C8092	CAP_402	mlb_noldo[63D1]
C8093	CAP_805	mlb_noldo[63D1]
C8202	CAP_402	mlb_noldo[65D7]
C8203	CAP_402	mlb_noldo[65C7]
C8205	CAP_402	mlb_noldo[65A5]
C8206	CAP_402	mlb_noldo[65A4]
C8209	CAP_402	mlb_noldo[65A5]
C8211	CAP_402	mlb_noldo[65A5]
C8215	CAP_402	mlb_noldo[65A4]
C8217	CAP_603	mlb_noldo[65C2]
C8218	CAP_402	mlb_noldo[65C4]
C8220	CAP_402	mlb_noldo[65A7]
C8221	CAP_402	mlb_noldo[65A7]
C8230	CAP_402	mlb_noldo[65C6]
C8300	CAP_402	mlb_noldo[66C7]
C8301	CAP_402	mlb_noldo[66C7]
C8302	CAP_402	mlb_noldo[66C7]
C8303	CAP_402	mlb_noldo[66C4]
C8304	CAP_402	mlb_noldo[66C5]
C8305	CAP_1206-1	mlb_noldo[66C4]
C8306	CAP_1206-1	mlb_noldo[66C3]
C8307	CAP_1206-1	mlb_noldo[66C3]
C8308	CAP_P_CASED2E-SM	mlb_noldo[66B4]
C8309	CAP_P_6.3X5.5SM1	mlb_noldo[66B3]
C8310	CAP_P_CASED2E-SM	mlb_noldo[66B3]
C8311	CAP_402	mlb_noldo[66C7]
C8312	CAP_402	mlb_noldo[66C5]
C8313	CAP_402	mlb_noldo[66C6]
C8316	CAP_402	mlb_noldo[66B4]
C8317	CAP_402	mlb_noldo[66B5]
C8318	CAP_402	mlb_noldo[66B4]
C8320	CAP_402	mlb_noldo[66B5]
C8321	CAP_402	mlb_noldo[66B5]
C8322	CAP_402	mlb_noldo[66B4]
C8323	CAP_402	mlb_noldo[66A5]
C8324	CAP_402	mlb_noldo[66A4]
C8325	CAP_402	mlb_noldo[66C7]
C8326	CAP_402	mlb_noldo[66C7]
C8327	CAP_402	mlb_noldo[66D7]
C8328	CAP_402	mlb_noldo[66B6]
C8340	CAP_402	mlb_noldo[66C7]
C8341	CAP_402	mlb_noldo[66B8]
C8370	CAP_402	mlb_noldo[66C3]
C8371	CAP_402	mlb_noldo[66C2]
C8372	CAP_402	mlb_noldo[66B1]
C8375	CAP_402	mlb_noldo[66B3]
C8381	CAP_603	mlb_noldo[66B3]
C9400	CAP_402	mlb_noldo[67C3]
C9401	CAP_402	mlb_noldo[67C3]
C9402	CAP_402	mlb_noldo[67C3]
C9403	CAP_402	mlb_noldo[67C3]
C9408	CAP_402	mlb_noldo[67A3]
C9409	CAP_402	mlb_noldo[67B2]
C9410	CAP_402	mlb_noldo[67A3]
C9411	CAP_402	mlb_noldo[67B5]
C9412	CAP_603	mlb_noldo[67B5]
C9413	CAP_402	mlb_noldo[67B6]
C9414	CAP_402	mlb_noldo[67D5]
C9415	CAP_402	mlb_noldo[67A3]
C9416	CAP_402	mlb_noldo[67A4]
C9459	CAP_402	mlb_noldo[67C5]
C9500	CAP_402	mlb_noldo[68D5]
C9501	CAP_402	mlb_noldo[68D4]
C9502	CAP_402	mlb_noldo[68D4]
C9503	CAP_402	mlb_noldo[68D4]
C9504	CAP_603	mlb_noldo[68D4]
C9505	CAP_603	mlb_noldo[68B2]
C9506	CAP_402	mlb_noldo[68C7]
C9507	CAP_402	mlb_noldo[68D5]
C9508	CAP_402	mlb_noldo[68D5]
C9509	CAP_402	mlb_noldo[68D4]
C9510	CAP_402	mlb_noldo[68D4]
C9511	CAP_402	mlb_noldo[68D4]
C9512	CAP_402	mlb_noldo[68D3]
C9513	CAP_603	mlb_noldo[68D3]
C9514	CAP_402	mlb_noldo[68D7]
C9519	CAP_402	mlb_noldo[68B6]
C9520	CAP_402	mlb_noldo[68B6]
C9521	CAP_402	mlb_noldo[68B3]
C9522	CAP_402	mlb_noldo[68D2]
C9523	CAP_402	mlb_noldo[68D2]
C9524	CAP_402	mlb_noldo[68C2]
C9525	CAP_402	mlb_noldo[68C2]
C9526	CAP_402	mlb_noldo[68C3]
C9527	CAP_402	mlb_noldo[68C1]
C9530	CAP_402	mlb_noldo[68D7]
C9531	CAP_402	mlb_noldo[68D7]
C9532	CAP_402	mlb_noldo[68C7]
C9533	CAP_402	mlb_noldo[68C7]
C9534	CAP_402	mlb_noldo[68C7]
C9535	CAP_402	mlb_noldo[68C7]
C9536	CAP_402	mlb_noldo[68D7]
C9537	CAP_402	mlb_noldo[68D7]
C9538	CAP_402	mlb_noldo[68D7]
C9539	CAP_402	mlb_noldo[68D7]
C9540	CAP_603	mlb_noldo[68D6]
C9541	CAP_402	mlb_noldo[68B5]
C9542	CAP_402	mlb_noldo[68B5]
C9543	CAP_402	mlb_noldo[68B5]
C9544	CAP_402	mlb_noldo[68B5]
C9545	CAP_402	mlb_noldo[68B5]
C9546	CAP_402	mlb_noldo[68B4]
C9547	CAP_402	mlb_noldo[68B4]
C9548	CAP_402	mlb_noldo[68B4]
C9804	CAP_402	mlb_noldo[69C4]
C9808	CAP_402	mlb_noldo[69C5]
C9809	CAP_402	mlb_noldo[69B5]
C9812	CAP_402	mlb_noldo[69B5]
C9820	CAP_402	mlb_noldo[69A4]
C9821	CAP_402	mlb_noldo[69A3]
C9824	CAP_402	mlb_noldo[69B5]
C9834	CAP_402	mlb_noldo[69A4]
C9839	CAP_402	mlb_noldo[69B7]
C9842	CAP_402	mlb_noldo[69C1]
C9843	CAP_402	mlb_noldo[69C1]
C9860	CAP_402	mlb_noldo[69C2]
D1986	DIODE_SCHOT_6PB_SOT-363	mlb_noldo[19C2 19D2]
D2502	DIODE_SCHOT_6PB_SOT-363	mlb_noldo[25C8 25D8]
D2600	DIODE_SCHOT_6PB_SOT-363	mlb_noldo[26D5 26D5]
D4520	DIODE_DUAL_6P_SOT-363	mlb_noldo[39B4 39B3]
D4521	DIODE_DUAL_6P_SOT-363	mlb_noldo[39A4 39A3]
D4550	ZENER_SOT23	mlb_noldo[39A6]
D4590	DIODE_SCHOT_SMB	mlb_noldo[39D4]
D4591	DPAK3P_SOT-363	mlb_noldo[39C5 39C5 39C5]
D4900	DIODE_SCHOT_3P_A_SC-75	mlb_noldo[40C6]
D5200	DIODE_SCHOT_3P_A_SC-75	mlb_noldo[42C3]
D5201	DIODE_SCHOT_3P_A_SC-75	mlb_noldo[42A3]
D7500	DIODE_SCHOT_SMB	mlb_noldo[58C3]
D7501	DIODE_SCHOT_SMB	mlb_noldo[58B3]
D7624	DIODE_SCHOT_SOD-323	mlb_noldo[59C6]
D7664	DIODE_SCHOT_SOD-323	mlb_noldo[59C3]
D7820	DIODE_SCHOT_SMB	mlb_noldo[61B4]
D7921	DIODE_SMB	mlb_noldo[62B7]
D7924	DIODE_SCHOT_SOD-323	mlb_noldo[62C6]
D7961	DIODE_SMB	mlb_noldo[62B2]
D7964	DIODE_SCHOT_SOD-323	mlb_noldo[62C3]
D8200	RCLAMP2402B_SC-75	mlb_noldo[59C7]
D8201	DPAK3P_SOT-363	mlb_noldo[65D4]
D8201	DPAK3P_SOT-363	mlb_noldo[66B3]
D8300	DIODE_SCHOT_SOD-123	mlb_noldo[66C5]
D8322	DPAK3P_SOT-363	mlb_noldo[66C8 66A5 66A6]
D9500	DIODE_DUAL_6P_SOT-363	mlb_noldo[68A7 68B7]
DZ7300	SUPPR_TRANSIENT_4P1_0405	mlb_noldo[56C6]
DZ7301	SUPPR_TRANSIENT_4P1_0405	mlb_noldo[56C6]
DZ7350	SUPPR_TRANSIENT_4P1_0405	mlb_noldo[56A6]
DZ7351	SUPPR_TRANSIENT_4P1_0405	mlb_noldo[56A6]
F8200	FUSE_1206	mlb_noldo[65D6]
F8300	FUSE_1206	mlb_noldo[66C3]
F9804	FUSE_SM-LF	mlb_noldo[69C5]
FL4520	FILTER_4P_2012	mlb_noldo[39B3]
FL4521	FILTER_4P_2012	mlb_noldo[39B3]
FL4590	FUSE_MINISMDC	mlb_noldo[39D5]
FL9800	FILTER_LC_SM-220MHZ-LF	mlb_noldo[69B5]
FL9801	FILTER_LC_SM-220MHZ-LF	mlb_noldo[69A5]
FL9802	FILTER_LC_SM-220MHZ-LF	mlb_noldo[69A5]
GV3901	HOLE_VIA	mlb_noldo[35C2]
GV3902	HOLE_VIA	mlb_noldo[35C2]
GV3903	HOLE_VIA	mlb_noldo[35C2]
GV3904	HOLE_VIA	mlb_noldo[35C2]
GV3905	HOLE_VIA	mlb_noldo[35B2]
GV3906	HOLE_VIA	mlb_noldo[35B2]
GV3907	HOLE_VIA	mlb_noldo[35B2]
GV3908	HOLE_VIA	mlb_noldo[35B2]
J1102	CON_F30STSM_5047_SM1	mlb_noldo[11B2]
J2600	CON_F2RT_S2MT_SM_F-RT-SM	mlb_noldo[26D6]
J2801	CON_F200RT_DDR2DIMM_TH1_F-RT-TH2	mlb_noldo[28D6]
J2901	CON_F200RT_DDR2DIMM_TH1_F-RT-TH2	mlb_noldo[29D5]
J3801	CON_M50ST_D2MT_SM_M-ST-SM	mlb_noldo[34C4]
J3901	CON_F19ST_S2MT_SM_F-ST-SM	mlb_noldo[35D8]
J4200	CON_RJ45_8RT_S2MT_SM_F-RT-SM	mlb_noldo[37C2]
J4500	CON_F6RT_S2MT_TH_F-RT-TH1	mlb_noldo[39B2]
J4900	CON_F10ST_D_SMA_F-ST-SM	mlb_noldo[40C4]
J5200	CON_F4RT_USB_S2MT_TH_F-RT-TH-M42	mlb_noldo[42D1]
J5201	CON_F4RT_USB_S2MT_TH_F-RT-TH-M42	mlb_noldo[42B1]
J5300	CON_F52RT_D2MT_SM_F-ST-SM	mlb_noldo[43C5]
J5400	CON_F4ST_S2MT_SM_F-ST-SM	mlb_noldo[44C4]
J6000	CON_F30STSM_5047_SM1	mlb_noldo[47C6]
J6250	CON_M2RT_S2MT_SM_M-RT-SM	mlb_noldo[49C6]
J6251	CON_M2RT_S2MT_SM_M-RT-SM	mlb_noldo[49A6]
J6501	CON_F4ST_S2MT_SM_F-ST-SM	mlb_noldo[51C3]
J7300	CON_F8RT_2MT_AUDIOOUT_TH_F-RT-TH	mlb_noldo[56C8]
J7301	CON_M3RT_S2MT_SM_M-RT-SM1	mlb_noldo[56D1]
J7302	CON_F2ST_S2MT_SM_F-ST-SM	mlb_noldo[56D1]
J7303	CON_F4ST_S2MT_SM_F-ST-SM	mlb_noldo[56C1]
J7350	CON_F8RT_2MT_AUDIOIN_TH_F-RT-TH	mlb_noldo[56B8]
J8200	CON_M5RT_S_SM_M-RT-SM	mlb_noldo[65D7]
J8250	CON_F20ST_D_SM_F-ST-SM1	mlb_noldo[65B6]
J9400	CON_F4ST_S2MT_SM_F-ST-SM	mlb_noldo[67D2]
J9401	CON_F22RT_S4MT_SM_F-RT-SM	mlb_noldo[67B1]
J9801	CON_DVI_30RT_Q4MT_TH_1_RT-TH	mlb_noldo[69B4]
L1922	IND_0603	mlb_noldo[19A7]
L1934	IND_0603	mlb_noldo[19C5]
L1936	IND_0603	mlb_noldo[19C5]
L1970	IND_1210	mlb_noldo[19B4]
L1975	IND_0805	mlb_noldo[19A4]
L1985	IND_0603	mlb_noldo[19D3]
L1990	IND_0603	mlb_noldo[19C3]
L2500	IND_SM-3	mlb_noldo[25B8]
L2507	IND_1206	mlb_noldo[25A7]
L3301	IND_0402-LF	mlb_noldo[32D7]
L3302	IND_0402-LF	mlb_noldo[32D3]
L3901	FILTER_4P_2012H	mlb_noldo[35D6]
L3902	FILTER_4P_2012H	mlb_noldo[35D5]
L3912	IND_0402	mlb_noldo[35C6]
L4100	IND_0402-LF	mlb_noldo[36D3]
L4250	IND_0402-LF	mlb_noldo[37D7]
L4400	IND_0402	mlb_noldo[38D4]
L4510	IND_SM	mlb_noldo[39C3]
L4550	IND_SM-1	mlb_noldo[39A7]
L4900	IND_0402	mlb_noldo[40D5]
L4901	FILTER_4P_SM	mlb_noldo[40C6]
L4902	IND_0402	mlb_noldo[40C5]
L5200	FILTER_4P_SM	mlb_noldo[42C4]
L5201	FILTER_4P_SM	mlb_noldo[42B4]
L5202	IND_0402-LF	mlb_noldo[42D4]
L5203	IND_0402-LF	mlb_noldo[42C4]
L5204	IND_0402-LF	mlb_noldo[42C3]
L5205	IND_0402-LF	mlb_noldo[42A3]
L5400	FILTER_4P_SM	mlb_noldo[44B5]
L5410	IND_0402-LF	mlb_noldo[44C5]
L5411	IND_0402-LF	mlb_noldo[44B5]
L5910	IND_0603	mlb_noldo[46A7]
L6800	IND_0402	mlb_noldo[54A5]
L6801	IND_0402	mlb_noldo[54D6]
L7200	IND_0402	mlb_noldo[55C7]
L7210	IND_0402	mlb_noldo[55C7]
L7211	IND_0402	mlb_noldo[55A7]
L7220	IND_0402	mlb_noldo[55C7]
L7230	IND_0402	mlb_noldo[55A7]
L7300	IND_0402-LF	mlb_noldo[56D6]
L7301	IND_0402-LF	mlb_noldo[56D4]
L7302	IND_0402	mlb_noldo[56D6]
L7303	IND_0402	mlb_noldo[56C6]
L7304	IND_0402	mlb_noldo[56C4]
L7305	IND_0402	mlb_noldo[56C5]
L7306	IND_0402	mlb_noldo[56C4]
L7307	IND_0402	mlb_noldo[56C6]
L7350	IND_0402	mlb_noldo[56B6]
L7351	IND_0402	mlb_noldo[56B4]
L7352	IND_0402	mlb_noldo[56B6]
L7353	IND_0402	mlb_noldo[56B6]
L7354	IND_0402	mlb_noldo[56B4]
L7355	IND_0402	mlb_noldo[56B6]
L7356	IND_0402	mlb_noldo[56B4]
L7357	IND_0402	mlb_noldo[56A6]
L7370	IND_0402	mlb_noldo[56B2]
L7371	IND_0402	mlb_noldo[56B1]
L7372	IND_0402	mlb_noldo[56B2]
L7373	IND_0402	mlb_noldo[56B1]
L7374	IND_0402	mlb_noldo[56B2]
L7375	IND_0402	mlb_noldo[56B1]
L7390	IND_0402	mlb_noldo[56D8]
L7400	IND_0402	mlb_noldo[57B4]
L7500	IND_SM	mlb_noldo[58D2]
L7501	IND_SM	mlb_noldo[58B2]
L7620	IND_L812HW	mlb_noldo[59B7]
L7680	IND_SM	mlb_noldo[59B2]
L7820	IND_3P_SM	mlb_noldo[61B3]
L7920	IND_SM	mlb_noldo[62B7]
L7960	IND_3P_SM	mlb_noldo[62B2]
L8090	IND_CDPH4D19F-SM	mlb_noldo[63D1]
L8201	IND_SM-LF	mlb_noldo[65A3]
L8202	IND_0402-LF	mlb_noldo[65A3]
L8203	IND_0402-LF	mlb_noldo[65A3]
L8204	IND_0402-LF	mlb_noldo[65A3]
L8205	IND_SM-LF	mlb_noldo[65A3]
L8207	IND_0402	mlb_noldo[65A7]
L8208	IND_0402	mlb_noldo[65A7]
L8209	IND_0402	mlb_noldo[65A7]
L8300	IND_3P_SM	mlb_noldo[66C4]
L9400	IND_0402-LF	mlb_noldo[67D4]
L9401	IND_0402-LF	mlb_noldo[67C4]
L9402	IND_0402-LF	mlb_noldo[67D4]
L9403	IND_0402-LF	mlb_noldo[67D4]
L9404	IND_0402-LF	mlb_noldo[67B4]
L9405	IND_0402-LF	mlb_noldo[67A4]
L9407	FILTER_4P_SM	mlb_noldo[67A4]
L9408	IND_0402-LF	mlb_noldo[67B4]
L9500	IND_0402-LF	mlb_noldo[68D5]
L9501	IND_0402-LF	mlb_noldo[68D5]
L9503	IND_0402-LF	mlb_noldo[68D8]
L9504	IND_0402-LF	mlb_noldo[68C8]
L9505	IND_0402-LF	mlb_noldo[68C8]
L9506	IND_0402-LF	mlb_noldo[68D8]
L9804	FILTER_4P_SM1	mlb_noldo[69A2]
L9805	FILTER_4P_2012H	mlb_noldo[69B2]
L9806	FILTER_4P_2012H	mlb_noldo[69B2]
L9807	FILTER_4P_2012H	mlb_noldo[69B2]
L9844	IND_SM-1	mlb_noldo[69C4]
Q2680	TRA_SINGLE_MOSFET_NCHN_SOT23	mlb_noldo[26A3]
Q3810	TRA_FDC638P_SM-LF	mlb_noldo[34C5]
Q3875	TRA_2N7002DW_SOT-363	mlb_noldo[34C6 34C7]
Q4590	TRA_FDC638P_SM-LF	mlb_noldo[39D5]
Q4591	TRA_2N7002_SOT23-LF	mlb_noldo[39C5]
Q5901	TRA_2N7002DW_SOT-363	mlb_noldo[46B4 46B5]
Q5950	TRA_2N3906_SOT23-LF	mlb_noldo[46A3]
Q5952	TRA_2N7002_SOT23-LF	mlb_noldo[46A3]
Q6100	TRA_SI3446DV_TSOP-LF	mlb_noldo[48A5]
Q6101	TRA_2N7002DW_SOT-363	mlb_noldo[48A6 48A7]
Q6150	TRA_TP0610_SOT23-3	mlb_noldo[48C6]
Q6151	TRA_2N7002_SOT23-LF	mlb_noldo[48C7]
Q6152	TRA_TP0610_SOT23-3	mlb_noldo[48C7]
Q6153	TRA_TP0610_SOT23-3	mlb_noldo[48C8]
Q6200	TRA_BCB40BM3T5G_NPN_SOT732-3	mlb_noldo[49B6]
Q6560	TRA_2N7002_SOT23-LF	mlb_noldo[51B3]
Q6650	TRA_2N7002_SOT23-LF	mlb_noldo[52B6]
Q6651	TRA_TP0610_SOT23-3	mlb_noldo[52B6]
Q7400	TRA_2N7002DW_SOT-363	mlb_noldo[57C7 57D7]
Q7401	TRA_2N7002DW_SOT-363	mlb_noldo[57D5 57D6]
Q7402	TRA_2N7002DW_SOT-363	mlb_noldo[57B7 57C5]
Q7500	TRA_HAT2168H_LFPAK	mlb_noldo[58D3]
Q7501	TRA_HAT2165H_LFPAK	mlb_noldo[58D4]
Q7502	TRA_HAT2168H_LFPAK	mlb_noldo[58C3]

Q7503	TRA_HAT2165H_LFPAK	mlb_noldo[58B4]
Q7504	TRA_HAT2165H_LFPAK	mlb_noldo[58D3]
Q7505	TRA_HAT2165H_LFPAK	mlb_noldo[58B3]
Q7620	TRA_STL8NH3LL_COMBO_PWRFLT-3P3X3P3	mlb_noldo[59C7]
Q7621	TRA_STL8NH3LL_COMBO_PWRFLT-3P3X3P3	mlb_noldo[59B7]
Q7660	TRA_STL8NH3LL_COMBO_PWRFLT-3P3X3P3	mlb_noldo[59C3]
Q7661	TRA_STL8NH3LL_COMBO_PWRFLT-3P3X3P3	mlb_noldo[59B3]
Q7750	TRA_2N7002DW_SOT-363	mlb_noldo[60C6 60C7]
Q7820	TRA_IRF7821_SO-8	mlb_noldo[61C4]
Q7821	TRA_IRF7832_SO-8	mlb_noldo[61B4]
Q7920	TRA_IRF7821_SO-8	mlb_noldo[62C6]
Q7921	TRA_IRF7832_SO-8	mlb_noldo[62B6]
Q7960	TRA_IRF7821_SO-8	mlb_noldo[62C3]
Q7961	TRA_IRF7832_SO-8	mlb_noldo[62B3]
Q8000	TRA_FDC638P_SM-LF	mlb_noldo[63D4]
Q8005	TRA_STL8NH3LL_COMBO_PWRFLT-3P3X3P3	mlb_noldo[63C4]
Q8010	TRA_FDC638P_SM-LF	mlb_noldo[63D4]
Q8015	TRA_STL8NH3LL_COMBO_PWRFLT-3P3X3P3	mlb_noldo[63C4]
Q8025	TRA_SI3447BDV_SOT-6	mlb_noldo[63A4]
Q8030	TRA_2N7002DW_SOT-363	mlb_noldo[63A6 63B6]
Q8031	TRA_2N7002DW_SOT-363	mlb_noldo[63D6 63A6]
Q8059	TRA_2N7002DW_SOT-363	mlb_noldo[63C7 63C7]
Q8060	TRA_2N7002_SOT23-LF	mlb_noldo[63C8]
Q8061	TRA_2N7002DW_SOT-363	mlb_noldo[63B7 63B7]
Q8062	TRA_2N7002_SOT23-LF	mlb_noldo[63B8]
Q8063	TRA_2N7002_SOT23-LF	mlb_noldo[63B4]
Q8210	TRA_2N7002DW_SOT-363	mlb_noldo[65C6 65C3]
Q8220	TRA_2N7002DW_SOT-363	mlb_noldo[65C7 65C6]
Q8240	TRA_TP0610_SOT23-3	mlb_noldo[65C5]
Q8250	TRA_SI4405DY_SO-8	mlb_noldo[65D2]
Q8298	TRA_TP0610_SOT23-3	mlb_noldo[65C7]
Q8299	TRA_2N7002_SOT23-LF	mlb_noldo[65C7]
Q8300	TRA_SI4405DY_SO-8	mlb_noldo[66D5]
Q8301	TRA_HAT2168H_LFPAK	mlb_noldo[66C4]
Q8302	TRA_HAT2165H_LFPAK	mlb_noldo[66B4]
Q8320	TRA_SI4405DY_SO-8	mlb_noldo[66B3]
Q8321	TRA_SI4405DY_SO-8	mlb_noldo[66B3]
Q8322	TRA_2N7002DW_SOT-363	mlb_noldo[66A4 66A4]
Q8324	TRA_2N7002DW_SOT-363	mlb_noldo[66A3 66A4]
Q8340	TRA_IRLML5203_SM	mlb_noldo[66C8]
Q8350	TRA_2N7002_SOT23-LF	mlb_noldo[66A6]
Q9403	TRA_FDC638P_SM-LF	mlb_noldo[67B6]
Q9404	TRA_2N7002_SOT23-LF	mlb_noldo[67B7]
Q9405	TRA_TP0610_SOT23-3	mlb_noldo[67D5]
Q9406	TRA_2N7002_SOT23-LF	mlb_noldo[67D6]
Q9801	TRA_2N7002DW_SOT-363	mlb_noldo[69D6 69D6]
R0610	RES_402	mlb_noldo[6A7]
R0611	RES_402	mlb_noldo[6A8]
R0612	RES_402	mlb_noldo[6A8]
R0621	RES_402	mlb_noldo[6A7]
R0702	RES_402	mlb_noldo[7D5]
R0703	RES_402	mlb_noldo[7C5]
R0704	RES_402	mlb_noldo[7C5]
R0705	RES_402	mlb_noldo[7B4]
R0706	RES_402	mlb_noldo[7B4]
R0707	RES_402	mlb_noldo[7A4]
R0712	RES_402	mlb_noldo[7A4]
R0716	RES_402	mlb_noldo[7B2]
R0717	RES_402	mlb_noldo[7B2]
R0718	RES_402	mlb_noldo[7B2]
R0719	RES_402	mlb_noldo[7B2]
R0720	RES_402	mlb_noldo[7B7]
R0721	RES_402	mlb_noldo[7B7]
R0722	RES_402	mlb_noldo[7A7]
R0730	RES_402	mlb_noldo[7A4]
R0802	RES_402	mlb_noldo[8B6]
R0803	RES_402	mlb_noldo[8A7]
R0921	RES_402	mlb_noldo[9D2]
R0922	RES_402	mlb_noldo[9D2]
R0923	RES_402	mlb_noldo[9C2]
R0924	RES_402	mlb_noldo[9C2]
R0925	RES_402	mlb_noldo[9C2]
R0926	RES_402	mlb_noldo[9C2]
R0927	RES_402	mlb_noldo[9C2]
R1001	RES_402	mlb_noldo[10B6]
R1002	RES_402	mlb_noldo[10B6]
R1005	RES_402	mlb_noldo[10C4]
R1006	RES_402	mlb_noldo[10C3]
R1100	RES_402	mlb_noldo[11B5]
R1101	RES_402	mlb_noldo[11C5]
R1102	RES_402	mlb_noldo[11B4]
R1103	RES_402	mlb_noldo[11C5]
R1104	RES_402	mlb_noldo[11B5]
R1106	RES_402	mlb_noldo[11A3]
R1210	RES_402	mlb_noldo[12C3]
R1211	RES_402	mlb_noldo[12C3]
R1220	RES_402	mlb_noldo[12B7]
R1221	RES_402	mlb_noldo[12B7]
R1225	RES_402	mlb_noldo[12B7]
R1226	RES_402	mlb_noldo[12B7]
R1230	RES_402	mlb_noldo[12A7]
R1231	RES_402	mlb_noldo[12A7]
R1235	RES_402	mlb_noldo[12A7]
R1236	RES_402	mlb_noldo[12A7]
R1310	RES_402	mlb_noldo[13D3]
R1410	RES_402	mlb_noldo[14C2]
R1411	RES_402	mlb_noldo[14C2]
R1420	RES_402	mlb_noldo[14C6]
R1421	RES_402	mlb_noldo[14C6]
R1422	RES_402	mlb_noldo[14B6]
R1430	RES_402	mlb_noldo[14B6]
R1440	RES_402	mlb_noldo[14D6]
R1441	RES_402	mlb_noldo[14D6]
R1950	RES_402	mlb_noldo[19D5]
R1951	RES_402	mlb_noldo[19D5]
R1975	RES_402	mlb_noldo[19A4]
R1985	RES_402	mlb_noldo[19D3]
R1986	RES_402	mlb_noldo[19C6]
R1987	RES_402	mlb_noldo[19C6]
R1988	RES_402	mlb_noldo[19C7]
R1989	RES_402	mlb_noldo[19C7]
R1990	RES_402	mlb_noldo[19C3]
R2058	RES_402	mlb_noldo[20B4]
R2059	RES_402	mlb_noldo[20B4]
R2060	RES_402	mlb_noldo[20A4]
R2075	RES_402	mlb_noldo[20C7]
R2077	RES_402	mlb_noldo[20B7]
R2079	RES_402	mlb_noldo[20B7]

R2085	RES_402	mlb_noldo[20C4]
R2100	RES_402	mlb_noldo[21C3]
R2101	RES_402	mlb_noldo[21C4]
R2105	RES_402	mlb_noldo[21D6]
R2107	RES_402	mlb_noldo[21C2]
R2108	RES_402	mlb_noldo[21C2]
R2110	RES_402	mlb_noldo[21C2]
R2194	RES_402	mlb_noldo[21D4]
R2195	RES_402	mlb_noldo[21C6]
R2196	RES_402	mlb_noldo[21C6]
R2197	RES_402	mlb_noldo[21C6]
R2198	RES_402	mlb_noldo[21C6]
R2199	RES_402	mlb_noldo[21C3]
R2200	RES_402	mlb_noldo[22D7]
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R2204	RES_402	mlb_noldo[22C2]
R2205	RES_402	mlb_noldo[22C6]
R2206	RES_402	mlb_noldo[22C5]
R2207	RES_402	mlb_noldo[22C5]
R2208	RES_402	mlb_noldo[22D5]
R2211	RES_402	mlb_noldo[22B3]
R2223	RES_402	mlb_noldo[22D6]
R2225	RES_402	mlb_noldo[22D7]
R2226	RES_402	mlb_noldo[22D5]
R2250	RES_402	mlb_noldo[22D7]
R2251	RES_402	mlb_noldo[22D6]
R2255	RES_402	mlb_noldo[22D7]
R2299	RES_402	mlb_noldo[22B5]
R2300	RES_402	mlb_noldo[23C7]
R2302	RES_402	mlb_noldo[23D3]
R2303	RES_402	mlb_noldo[23D3]
R2305	RES_402	mlb_noldo[23D3]
R2306	RES_402	mlb_noldo[23B7]
R2307	RES_402	mlb_noldo[23A7]
R2308	RES_402	mlb_noldo[23B7]
R2309	RES_402	mlb_noldo[23A7]
R2310	RES_402	mlb_noldo[23A7]
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R2312	RES_402	mlb_noldo[23A3]
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R2326	RES_402	mlb_noldo[23D6]
R2327	RES_402	mlb_noldo[23D6]
R2343	RES_402	mlb_noldo[23D1]
R2388	RES_402	mlb_noldo[23B2]
R2389	RES_402	mlb_noldo[23A4]
R2390	RES_402	mlb_noldo[23B3]
R2395	RES_402	mlb_noldo[23D7]
R2396	RES_402	mlb_noldo[23D6]
R2397	RES_402	mlb_noldo[23D6]
R2398	RES_402	mlb_noldo[23D8]
R2399	RES_402	mlb_noldo[23C1]
R2500	RES_603	mlb_noldo[25A8]
R2501	RES_402	mlb_noldo[25C8]
R2502	RES_402	mlb_noldo[25D8]
R2600	RES_402	mlb_noldo[26D4]
R2606	RES_402	mlb_noldo[26D5]
R2607	RES_402	mlb_noldo[26D5]
R2609	RES_402	mlb_noldo[26C7]
R2610	RES_402	mlb_noldo[26C7]
R2611	RES_402	mlb_noldo[26B5]
R2612	RES_402	mlb_noldo[26A5]
R2622	RES_402	mlb_noldo[26A5]
R2636	RES_402	mlb_noldo[26C2]
R2637	RES_402	mlb_noldo[26C2]
R2638	RES_402	mlb_noldo[26C2]
R2639	RES_402	mlb_noldo[26C2]
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R2697	RES_402	mlb_noldo[26C5]
R2698	RES_402	mlb_noldo[26C5]
R2700	RES_402	mlb_noldo[27D7]
R2701	RES_402	mlb_noldo[27D7]
R2750	RES_402	mlb_noldo[27D4]
R2751	RES_402	mlb_noldo[27D4]
R2760	RES_402	mlb_noldo[27C4]
R2761	RES_402	mlb_noldo[27C4]
R2770	RES_402	mlb_noldo[27D2]
R2771	RES_402	mlb_noldo[27D2]
R2780	RES_402	mlb_noldo[27C2]
R2781	RES_402	mlb_noldo[27C2]
R2782	RES_402	mlb_noldo[27B2]
R2783	RES_402	mlb_noldo[27B2]
R2800	RES_402	mlb_noldo[28D2]
R2801	RES_402	mlb_noldo[28D2]
R2900	RES_402	mlb_noldo[29A4]
R2901	RES_402	mlb_noldo[29D2]
R2902	RES_402	mlb_noldo[29D2]
R3001	RES_402	mlb_noldo[30D4]
R3009	RES_402	mlb_noldo[30D4]
R3011	RES_402	mlb_noldo[30C4]
R3025	RES_402	mlb_noldo[30C4]
R3035	RES_402	mlb_noldo[30B4]
R3100	RES_402	mlb_noldo[31C5]
R3104	RES_402	mlb_noldo[31C5]
R3300	RES_402	mlb_noldo[32B6]
R3301	RES_402	mlb_noldo[32B7]
R3302	RES_402	mlb_noldo[32D4]
R3303	RES_402	mlb_noldo[32C4]
R3304	RES_402	mlb_noldo[32C7]
R3400	RES_402	mlb_noldo[33C1]
R3401	RES_402	mlb_noldo[33C7]
R3402	RES_402	mlb_noldo[33C1]
R3403	RES_402	mlb_noldo[33C1]
R3404	RES_402	mlb_noldo[33D1]

R3405	RES_402	mlb_noldo[33C1]
R3406	RES_402	mlb_noldo[33B1]
R3407	RES_402	mlb_noldo[33B1]
R3408	RES_402	mlb_noldo[33C1]
R3409	RES_402	mlb_noldo[33C1]
R3410	RES_402	mlb_noldo[33C1]
R3411	RES_402	mlb_noldo[33D4]
R3412	RES_402	mlb_noldo[33D4]
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R3414	RES_402	mlb_noldo[33D4]
R3415	RES_402	mlb_noldo[33D4]
R3416	RES_402	mlb_noldo[33D4]
R3417	RES_402	mlb_noldo[33C7]
R3418	RES_402	mlb_noldo[33B4]
R3419	RES_402	mlb_noldo[33B4]
R3420	RES_402	mlb_noldo[33A4]
R3421	RES_402	mlb_noldo[33A4]
R3422	RES_402	mlb_noldo[33C4]
R3423	RES_402	mlb_noldo[33C4]
R3426	RES_402	mlb_noldo[33C4]
R3427	RES_402	mlb_noldo[33C4]
R3428	RES_402	mlb_noldo[33C4]
R3429	RES_402	mlb_noldo[33D8]
R3430	RES_402	mlb_noldo[33D7]
R3431	RES_402	mlb_noldo[33B1]
R3432	RES_402	mlb_noldo[33D7]
R3433	RES_402	mlb_noldo[33D8]
R3434	RES_402	mlb_noldo[33D4]
R3435	RES_402	mlb_noldo[33C4]
R3436	RES_402	mlb_noldo[33B1]
R3437	RES_402	mlb_noldo[33B1]
R3438	RES_402	mlb_noldo[33D1]
R3439	RES_402	mlb_noldo[33D1]
R3440	RES_402	mlb_noldo[33D1]
R3441	RES_402	mlb_noldo[33D1]
R3442	RES_402	mlb_noldo[33C1]
R3450	RES_402	mlb_noldo[33C7]
R3451	RES_402	mlb_noldo[33B7]
R3452	RES_402	mlb_noldo[33B7]
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R3454	RES_402	mlb_noldo[33B7]
R3463	RES_402	mlb_noldo[33D7]
R3465	RES_402	mlb_noldo[33C4]
R3466	RES_402	mlb_noldo[33A7]
R3467	RES_402	mlb_noldo[33A7]
R3468	RES_402	mlb_noldo[33C7]
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R3474	RES_402	mlb_noldo[33B8]
R3475	RES_402	mlb_noldo[33B7]
R3476	RES_402	mlb_noldo[33A7]
R3477	RES_402	mlb_noldo[33B4]
R3478	RES_402	mlb_noldo[33B4]
R3480	RES_402	mlb_noldo[33C7]
R3481	RES_402	mlb_noldo[33B1]
R3482	RES_402	mlb_noldo[33B1]
R3490	RES_402	mlb_noldo[33A4]
R3824	RES_402	mlb_noldo[34C4]
R3825	RES_402	mlb_noldo[34C5]
R3851	RES_402	mlb_noldo[34C4]
R3853	RES_402	mlb_noldo[34C3]
R3858	RES_402	mlb_noldo[34B5]
R3859	RES_402	mlb_noldo[34B4]
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R3876	RES_402	mlb_noldo[34C7]
R3877	RES_402	mlb_noldo[34C6]
R3900	RES_402	mlb_noldo[35D3]
R3901	RES_402	mlb_noldo[35C3]
R3950	RES_402	mlb_noldo[35B7]
R4101	RES_402	mlb_noldo[36D8]
R4102	RES_402	mlb_noldo[36C8]
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R4106	RES_402	mlb_noldo[36B5]
R4107	RES_402	mlb_noldo[36D8]
R4117	RES_402	mlb_noldo[36B3]
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R4119	RES_402	mlb_noldo[36B3]
R4120	RES_402	mlb_noldo[36B4]
R4122	RES_402	mlb_noldo[36A3]
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R4124	RES_402	mlb_noldo[36A2]
R4130	RES_402	mlb_noldo[36B6]
R4131	RES_402	mlb_noldo[36B6]
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R4202	RES_402	mlb_noldo[37A5]
R4203	RES_402	mlb_noldo[37A5]
R4400	RES_402	mlb_noldo[38C3]
R4420	RES_402	mlb_noldo[38C2]
R4431	RES_402	mlb_noldo[38A6]
R4432	RES_402	mlb_noldo[38A6]
R4452	RES_402	mlb_noldo[38C3]
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R4502	RES_402	mlb_noldo[39B5]
R4503	RES_402	mlb_noldo[39B5]
R4504	RES_402	mlb_noldo[39A5]
R4550	RES_402	mlb_noldo[39A7]
R4590	RES_402	mlb_noldo[39C5]
R4591	RES_402	mlb_noldo[39C5]
R4593	RES_402	mlb_noldo[39C6]
R4594	RES_402	mlb_noldo[39C6]
R4595	RES_402	mlb_noldo[39C5]
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R5100	RES_402	mlb_noldo[41C6]
R5250	RES_402	mlb_noldo[42C8]
R5251	RES_402	mlb_noldo[42C8]
R5301	RES_402	mlb_noldo[43B4]
R5302	RES_402	mlb_noldo[43B4]
R5303	RES_402	mlb_noldo[43C4]
R5801	RES_402	mlb_noldo[45D1]
R5802	RES_402	mlb_noldo[45C1]
R5803	RES_402	mlb_noldo[45C1]
R5809	RES_402	mlb_noldo[45D2]
R5898	RES_402	mlb_noldo[45C2]
R5899	RES_402	mlb_noldo[45D3]
R5900	RES_402	mlb_noldo[46D7]
R5901	RES_603	mlb_noldo[46D8]
R5905	RES_402	mlb_noldo[46D4]

R5906	RES_402	mlb_noldo[46D4]
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R5911	RES_402	mlb_noldo[46A6]
R5918	RES_402	mlb_noldo[46C5]
R5919	RES_402	mlb_noldo[46C5]
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R6152	RES_402	mlb_noldo[48C7]
R6153	RES_402	mlb_noldo[48B7]
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R6201	RES_402	mlb_noldo[49C5]
R6203	RES_402	mlb_noldo[49D3]
R6251	RES_402	mlb_noldo[49A5]
R6252	RES_402	mlb_noldo[49B3]
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R6306	RES_402	mlb_noldo[50C2]
R6307	RES_402	mlb_noldo[50C5]
R6308	RES_402	mlb_noldo[50D3]
R6309	RES_402	mlb_noldo[50C5]
R6560	RES_402	mlb_noldo[51C3]
R6561	RES_402	mlb_noldo[51B4]
R6565	RES_402	mlb_noldo[51C3]
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R6650	RES_402	mlb_noldo[52B6]
R6652	RES_402	mlb_noldo[52B7]
R6700	RES_402	mlb_noldo[53C7]
R6702	RES_402	mlb_noldo[53C4]
R6703	RES_402	mlb_noldo[53C4]
R6704	RES_805	mlb_noldo[53C2]
R6705	RES_805	mlb_noldo[53C3]
R6798	RES_402	mlb_noldo[53B6]
R6799	RES_402	mlb_noldo[53B6]
R6800	RES_402	mlb_noldo[54C6]
R6801	RES_402	mlb_noldo[54B5]
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R6807	RES_402	mlb_noldo[54D7]
R6808	RES_402	mlb_noldo[54D3]
R6809	RES_402	mlb_noldo[54C3]
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R6853	RES_402	mlb_noldo[54A7]
R6854	RES_402	mlb_noldo[54B4]
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R7202	RES_402	mlb_noldo[55A4]
R7210	RES_402	mlb_noldo[55A7]

R7260	RES_402	mlb_noldo[55D2]
R7261	RES_402	mlb_noldo[55C2]
R7270	RES_402	mlb_noldo[55C2]
R7271	RES_402	mlb_noldo[55C2]
R7280	RES_402	mlb_noldo[55B2]
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R7300	RES_402	mlb_noldo[56C4]
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R7320	RES_402	mlb_noldo[56B5]
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R7322	RES_402	mlb_noldo[56B7]
R7349	RES_402	mlb_noldo[56B7]
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R7380	RES_402	mlb_noldo[56C2]
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R7391	RES_402	mlb_noldo[56C7]
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R7412	RES_402	mlb_noldo[57B7]
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R7414	RES_402	mlb_noldo[57C4]
R7415	RES_402	mlb_noldo[57C5]
R7430	RES_603	mlb_noldo[57C3]
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R7460	RES_402	mlb_noldo[57C6]
R7461	RES_402	mlb_noldo[57C7]
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R7501	RES_402	mlb_noldo[58C2]
R7502	RES_805	mlb_noldo[58B3]
R7503	RES_805	mlb_noldo[58D3]
R7504	RES_402	mlb_noldo[58C1]
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R7506	RES_402	mlb_noldo[58C7]
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R7511	RES_402	mlb_noldo[58B8]
R7512	RES_402	mlb_noldo[58D7]
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R7514	RES_402	mlb_noldo[58B8]
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R7524	RES_402	mlb_noldo[58D5]
R7525	RES_402	mlb_noldo[58C5]
R7526	THERMISTER_402	mlb_noldo[58C7]
R7527	RES_402	mlb_noldo[58C8]
R7530	RES_402	mlb_noldo[58B4]
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R7543	RES_402	mlb_noldo[58B2]
R7545	RES_402	mlb_noldo[58C7]
R7600	RES_402	mlb_noldo[59C5]
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R7606	RES_402	mlb_noldo[59A3]
R7607	RES_402	mlb_noldo[59A3]
R7621	RES_402	mlb_noldo[59C7]
R7624	RES_402	mlb_noldo[59C6]
R7625	RES_402	mlb_noldo[59B6]
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R7664	RES_402	mlb_noldo[59C3]
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R7803	RES_402	mlb_noldo[61C2]
R7804	RES_402	mlb_noldo[61C7]
R7805	RES_402	mlb_noldo[61B7]
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R7807	RES_402	mlb_noldo[61C5]
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R7822	RES_402	mlb_noldo[61B2]
R7860	RES_603	mlb_noldo[61C3]
R7861	RES_402	mlb_noldo[61C2]
R7863	RES_402	mlb_noldo[61C2]
R7900	RES_402	mlb_noldo[62C5]
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R7907	RES_402	mlb_noldo[62A3]
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R8005	RES_402	mlb_noldo[63C5]
R8010	RES_402	mlb_noldo[63C5]
R8015	RES_402	mlb_noldo[63B5]
R8025	RES_402	mlb_noldo[63A5]
R8030	RES_402	mlb_noldo[63B6]
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R8033	RES_402	mlb_noldo[63D6]
R8050	RES_402	mlb_noldo[63A6]
R8056	RES_402	mlb_noldo[63C8]
R8057	RES_402	mlb_noldo[63C8]
R8058	RES_402	mlb_noldo[63B8]
R8059	RES_402	mlb_noldo[63B8]
R8061	RES_402	mlb_noldo[63B1]
R8062	RES_402	mlb_noldo[63B1]
R8063	RES_402	mlb_noldo[63A1]
R8064	RES_402	mlb_noldo[63A1]
R8065	RES_402	mlb_noldo[63B2]
R8091	RES_402	mlb_noldo[63D1]
R8092	RES_402	mlb_noldo[63C1]
R8200	RES_402	mlb_noldo[65B7]
R8201	RES_402	mlb_noldo[65C5]
R8202	RES_402	mlb_noldo[65C5]
R8203	RES_402	mlb_noldo[65C6]
R8204	RES_402	mlb_noldo[65C6]
R8205	RES_805	mlb_noldo[65D4]
R8206	RES_402	mlb_noldo[65C4]
R8207	RES_402	mlb_noldo[65C4]
R8208	RES_402	mlb_noldo[65C4]
R8209	RES_402	mlb_noldo[65C4]
R8210	RES_402	mlb_noldo[65C4]
R8211	RES_402	mlb_noldo[65C6]
R8213	RES_402	mlb_noldo[65C2]
R8214	RES_402	mlb_noldo[65C2]
R8231	RES_402	mlb_noldo[65C5]
R8232	RES_402	mlb_noldo[65C6]
R8233	RES_402	mlb_noldo[65C5]
R8296	RES_402	mlb_noldo[65B7]
R8297	RES_402	mlb_noldo[65C3]
R8298	RES_402	mlb_noldo[65C8]
R8299	RES_402	mlb_noldo[65C7]
R8300	RES_402	mlb_noldo[66C6]
R8301	RES_402	mlb_noldo[66C7]
R8302	RES_402	mlb_noldo[66C5]
R8303	RES_402	mlb_noldo[66C5]
R8304	RES_805	mlb_noldo[66B2]
R8305	RES_402	mlb_noldo[66C5]
R8306	RES_402	mlb_noldo[66C7]
R8308	RES_0612	mlb_noldo[66C3]
R8309	RES_402	mlb_noldo[66B6]
R8310	RES_402	mlb_noldo[66C5]
R8311	RES_402	mlb_noldo[66B7]
R8312	RES_402	mlb_noldo[66C7]
R8320	RES_2525	mlb_noldo[66B3]
R8322	RES_402	mlb_noldo[66A3]
R8323	RES_402	mlb_noldo[66A3]
R8324	RES_402	mlb_noldo[66A4]
R8325	RES_402	mlb_noldo[66A5]
R8330	RES_402	mlb_noldo[66B4]
R8331	RES_402	mlb_noldo[66A4]
R8340	RES_402	mlb_noldo[66C8]
R8341	RES_402	mlb_noldo[66B8]
R8342	RES_402	mlb_noldo[66C8]
R8343	RES_402	mlb_noldo[66B8]
R8344	RES_402	mlb_noldo[66B8]
R8350	RES_402	mlb_noldo[66B5]
R8351	RES_402	mlb_noldo[66B6]
R8352	RES_402	mlb_noldo[66B5]
R8360	RES_402	mlb_noldo[66D7]
R8361	RES_402	mlb_noldo[66C7]
R8362	RES_402	mlb_noldo[66B7]
R8363	RES_402	mlb_noldo[66B6]
R8364	RES_402	mlb_noldo[66B6]
R8365	RES_402	mlb_noldo[66B6]
R8367	RES_402	mlb_noldo[66C6]
R8370	RES_402	mlb_noldo[66C2]
R8371	RES_402	mlb_noldo[66B2]
R8381	RES_603	mlb_noldo[66B4]
R8397	RES_0612	mlb_noldo[66C4]
R9400	RES_402	mlb_noldo[67D6]
R9401	RES_402	mlb_noldo[67D6]
R9402	RES_402	mlb_noldo[67C7]
R9408	RES_402	mlb_noldo[67B5]
R9409	RES_402	mlb_noldo[67B5]
R9413	RES_402	mlb_noldo[67A6]
R9414	RES_402	mlb_noldo[67B7]
R9415	RES_402	mlb_noldo[67B7]
R9416	RES_402	mlb_noldo[67B7]
R9423	RES_402	mlb_noldo[67B6]
R9428	RES_402	mlb_noldo[67C5]
R9500	RES_402	mlb_noldo[68A7]
R9501	RES_402	mlb_noldo[68B6]
R9502	RES_402	mlb_noldo[68B6]
R9503	RES_402	mlb_noldo[68A4]
R9504	RES_402	mlb_noldo[68B2]
R9505	RES_402	mlb_noldo[68B2]
R9506	RES_402	mlb_noldo[68B1]
R9507	RES_402	mlb_noldo[68D2]
R9508	RES_402	mlb_noldo[68D2]
R9509	RES_402	mlb_noldo[68C2]
R9510	RES_402	mlb_noldo[68C2]
R9537	RES_402	mlb_noldo[68D1]
R9538	RES_402	mlb_noldo[68D1]
R9539	RES_402	mlb_noldo[68C1]
R9540	RES_402	mlb_noldo[68C1]
R9821	RES_402	mlb_noldo[69D7]
R9822	RES_402	mlb_noldo[69D6]
R9850	RES_402	mlb_noldo[69B8]
R9851	RES_402	mlb_noldo[69B8]
R9852	RES_402	mlb_noldo[69A8]
R9853	RES_402	mlb_noldo[69A8]
R9854	RES_402	mlb_noldo[69A8]
R9855	RES_402	mlb_noldo[69A8]
R9856	RES_402	mlb_noldo[69B6]
R9859	RES_402	mlb_noldo[69A6]
R9860	RES_402	mlb_noldo[69C3]
R9861	RES_402	mlb_noldo[69C3]
R9862	RES_402	mlb_noldo[69C5]
R9863	RES_402	mlb_noldo[69C5]
R9864	RES_402	mlb_noldo[69A6]
R9868	RES_402	mlb_noldo[69C8]
R9869	RES_402	mlb_noldo[69C8]
R9870	RES_402	mlb_noldo[69C1]
R9871	RES_402	mlb_noldo[69C1]
RP2300	RPAK4P_SM-LF	mlb_noldo[23D5]
RP2600	RPAK4P_SM-LF	mlb_noldo[26D2]
RP2601	RPAK4P_SM-LF	mlb_noldo[26D2]
RP2602	RPAK4P_SM-LF	mlb_noldo[26C2]
RP3000	RPAK4P_SM-LF	mlb_noldo[30B4 30C4 30D4 30D4]
RP3001	RPAK4P_SM-LF	mlb_noldo[30C4 30A4 30A4 30D4]
RP3002	RPAK4P_SM-LF	mlb_noldo[30A4 30A4 30A4 30D4]
RP3003	RPAK4P_SM-LF	mlb_noldo[30C4 30C4 30C4 30D4]
RP3004	RPAK4P_SM-LF	mlb_noldo[30C4 30C4 30D4]
RP3005	RPAK4P_SM-LF	mlb_noldo[30B4 30A4 30A4 30D4]
RP3006	RPAK4P_SM-LF	mlb_noldo[30B4 30B4 30A4 30D4]
RP3007	RPAK4P_SM-LF	mlb_noldo[30C4 30C4 30C4 30C4]
RP3008	RPAK4P_SM-LF	mlb_noldo[30C4 30C4 30C4 30C4]
RP3009	RPAK4P_SM-LF	mlb_noldo[30B4 30B4 30C4 30C4]
RP3010	RPAK4P_SM-LF	mlb_noldo[30B4 30B4 30B4 30B4]
RP3011	RPAK4P_SM-LF	mlb_noldo[30B4 30A4 30B4 30B4]
T4201	XFR_1000BT_82400275_XFR-SM	mlb_noldo[37C6]
T4202	XFR_1000BT_82400275_XFR-SM	mlb_noldo[37B6]
U0700	CPU_YONAH_BGA	mlb_noldo[7C3 7D7]
U0700	CPU_YONAH_BGA	mlb_noldo[8D8 8D4]
U1001	ADT7461_MSOP	mlb_noldo[10C5]
U1200	NB_945GM_BGA	mlb_noldo[12D5]
U1200	NB_945GM_BGA	mlb_noldo[13D4]
U1200	NB_945GM_BGA	mlb_noldo[14D5]
U1200	NB_945GM_BGA	mlb_noldo[15D3 15D7]
U1200	NB_945GM_BGA	mlb_noldo[16D2 16C8]
U1200	NB_945GM_BGA	mlb_noldo[17D5]
U1200	NB_945GM_BGA	mlb_noldo[18D4 18D7]
U1900	LREG_TPS73115_SOT23-5	mlb_noldo[19D6]
U1901	MM157_SOT23-5-LF	mlb_noldo[19C4]
U2100	SB_ICH7M_BGA	mlb_noldo[21D6]
U2100	SB_ICH7M_BGA	mlb_noldo[22B7 22D3]
U2100	SB_ICH7M_BGA	mlb_noldo[23D4]
U2100	SB_ICH7M_BGA	mlb_noldo[24D4 24D7]
U2601	MC74VHC1G08_SC70	mlb_noldo[26A5]
U2603	MC74VHC1G00_SC70-5	mlb_noldo[26A7]
U2680	MC74VHC1G08_SC70	mlb_noldo[26B3]
U3100	LREG_BD3533FVM_MSOP-8	mlb_noldo[31C4]
U3301	CLK_SYN_SLG8LP436_QFN	mlb_noldo[32C5]
U4101	88E8053_QFN	mlb_noldo[36D6]
U4102	EEPROM_M24C08_SO8	mlb_noldo[36A3]
U4400	FW32306_BGA_BGA	mlb_noldo[38C5]
U5100	CY8C24794_MLF	mlb_noldo[41C5]
U5200	SWI_TPS2042B_MSOP	mlb_noldo[42C7]
U5800	SMC_H8S2116_BGA	mlb_noldo[45A8 45C3 45C7 45D7]
U5900	VDET_RN5VD_SOT23-5	mlb_noldo[46D7]
U5910	OSC_12P_SG-3040LC-SM	mlb_noldo[46A7]
U5977	COMPARATOR_LMC7211_SM-LF	mlb_noldo[46C2]
U6100	OPAMP_LMV2011_SOT23-5	mlb_noldo[48C3]
U6200	MAX6695_UMAX1	mlb_noldo[49D4]
U6250	MAX6695_UMAX1	mlb_noldo[49B4]
U6301	FLASH_SST25VF016B_SOI	mlb_noldo[50D3]
U6620	KXM52_QFN	mlb_noldo[52C5]
U6650	LIS3L02AL_LGA	mlb_noldo[52B5]
U6700	TPM_TSSOP	mlb_noldo[53C5]
U6800	AUDIO_STAC92204XR_LQFP	mlb_noldo[54D5]
U7210	MAX9705_TDFN1	mlb_noldo[55C5]
U7220	MAX9705_TDFN1	mlb_noldo[55B5]
U7230	MAX9705_TDFN1	mlb_noldo[55A5]
U7400	MAX9890_UCSP1	mlb_noldo[57C2]
U7500	ISL6262_QFN	mlb_noldo[58C6]
U7600	LTC3728L_QFN	mlb_noldo[59C5]
U7700	MAX8887_SOT23-5	mlb_noldo[60D4]
U7701	MAX8887_SOT23-5	mlb_noldo[60C4]
U7720	LREG_MAX8516_SOP	mlb_noldo[60B3]
U7800	ISL6269_QFN	mlb_noldo[61C5]
U7801	AMP_INA326_MSOP	mlb_noldo[61C2]
U7900	LTC3728L_QFN	mlb_noldo[62C5]
U7901	AMP_INA326_MSOP	mlb_noldo[62A6]
U8070	LTC2908_LLP	mlb_noldo[63B2]
U8080	MC74VHC1G08_SC70	mlb_noldo[63B1]
U8090	LT3470_TSOT23-8	mlb_noldo[63D3]
U8200	COMPARATOR_LMC7211_SM-LF	mlb_noldo[65C4]
U8250	MC74VHC1G08_SC70	mlb_noldo[65C3]
U8290	COMPARATOR_LM397_SOT23-5	mlb_noldo[65C5]
U8300	ISL6255_QFN	mlb_noldo[66C6]
U8370	INA193_SOT23-5	mlb_noldo[66C3]
U8375	INA193_SOT23-5	mlb_noldo[66B2]
U9453	MC74VHC1G08_SC70	mlb_noldo[67C5]
U9500	SIL1362_LQFP	mlb_noldo[68B4]
U9801	VIDEO_TS3V330_SOP	mlb_noldo[69B7]
U9804	SN74LVC2G125_US	mlb_noldo[69C2 69C2]
VR5965	VREF_ISL6000233_SOT23-3	mlb_noldo[46C7]
VR6800	LREG_TPS79501_SOT223-6	mlb_noldo[54A5]
XW5800	SHORT_SM	mlb_noldo[45C3]
XW7200	SHORT_SM	mlb_noldo[55A5]
XW7300	SHORT_SM	mlb_noldo[56C4]
XW7301	SHORT_SM	mlb_noldo[56B4]
XW7302	SHORT_SM	mlb_noldo[56C2]
XW7303	SHORT_SM	mlb_noldo[56C2]
XW7304	SHORT_SM	mlb_noldo[56B2]
XW7305	SHORT_SM	mlb_noldo[56B7]
XW7400	SHORT_SM	mlb_noldo[57A7]
XW7500	SHORT_SM	mlb_noldo[58A6]
XW7600	SHORT_SM	mlb_noldo[59A5]
XW7620	JUMPER_OPEN-SAWTOOTH	mlb_noldo[59B8]
XW7660	JUMPER_OPEN-SAWTOOTH	mlb_noldo[59B1]
XW7800	SHORT_SM	mlb_noldo[61B5]
XW7900	SHORT_SM	mlb_noldo[62A5]
XW7920	JUMPER_OPEN-SAWTOOTH	mlb_noldo[62B8]
XW8101	SHORT_SM	mlb_noldo[64B2]
XW8102	SHORT_SM	mlb_noldo[64B2]
XW8300	SHORT_SM	mlb_noldo[66B4]
Y2600	CRYSTAL_4PIN_SM-LF	mlb_noldo[26C7]
Y3301	CRYSTAL_5X3.2-SM	mlb_noldo[32C7]
Y4101	CRYSTAL_4PIN_SM-3.2X2.5MM	mlb_noldo[36B6]
Y4403	CRYSTAL_4PIN_SM-3.2X2.5MM	mlb_noldo[38C2]
Y5920	CRYSTAL_5X3.2-SM	mlb_noldo[46C7]
Y6795	CRYSTAL_4PIN_SM-LF	mlb_noldo[53B6]
Z0601	MTGHOLE	mlb_noldo[6B8]
Z0602	MTGHOLE	mlb_noldo[6C6]
Z0603	PCB_STANDOFF	mlb_noldo[6A8]
Z0604	PCB_STANDOFF	mlb_noldo[6A6]
Z0605	PCB_STANDOFF	mlb_noldo[6A8]
Z0606	MTGHOLE	mlb_noldo[6D6]
Z0607	MTGHOLE	mlb_noldo[6C6]
Z0608	MTGHOLE	mlb_noldo[6C6]
Z0609	MTGHOLE	mlb_noldo[6B7]
Z0610	MTGHOLE	mlb_noldo[6B6]
Z0611	MTGHOLE	mlb_noldo[6B7]
Z0612	PCB_STANDOFF	mlb_noldo[6A6]
Z0613	PCB_STANDOFF	mlb_noldo[6A5]
Z0621	PCB_STANDOFF	mlb_noldo[6A6]
ZS0620	SPRING_CLIP_1P_EMI_CLIP-SM-M42	mlb_noldo[6D7]
ZS0621	CLIP_SM	mlb_noldo[6D6]