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.

REV	ZONE	ECN	DESCRIPTION OF CHANGE	CK APPD DATE	ENG APPD DATE
?		?	?	?	?

Q45 INTERFACE BOARD

920-0163-03 (PCB)
951-0292-03 (SCHEMATIC)

REV 1: 11/12/2003 TEF

REV 2: 1/19/2004 TEF

REV 3: 4/09/2004 TEF

TOM FUSSELMAN EXT 4-8994

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

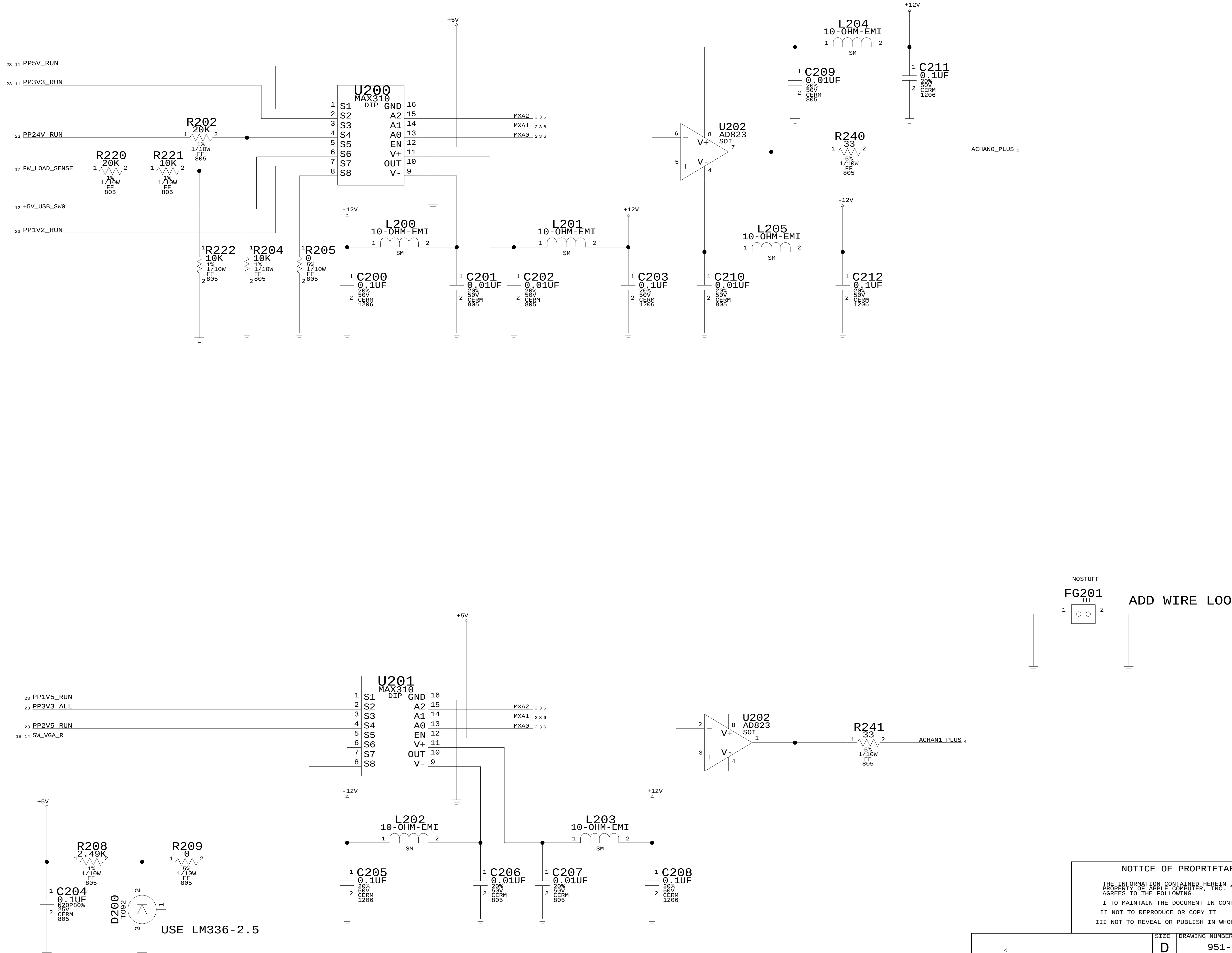
METRIC

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

MATERIAL/FINISH NOTED AS APPLICABLE
SIZE D

Apple Computer Inc.

TITLE Q45 INTERFACE BOARD
DRAWING NUMBER 951-0292
REV. 3
SHT 1 OF 26



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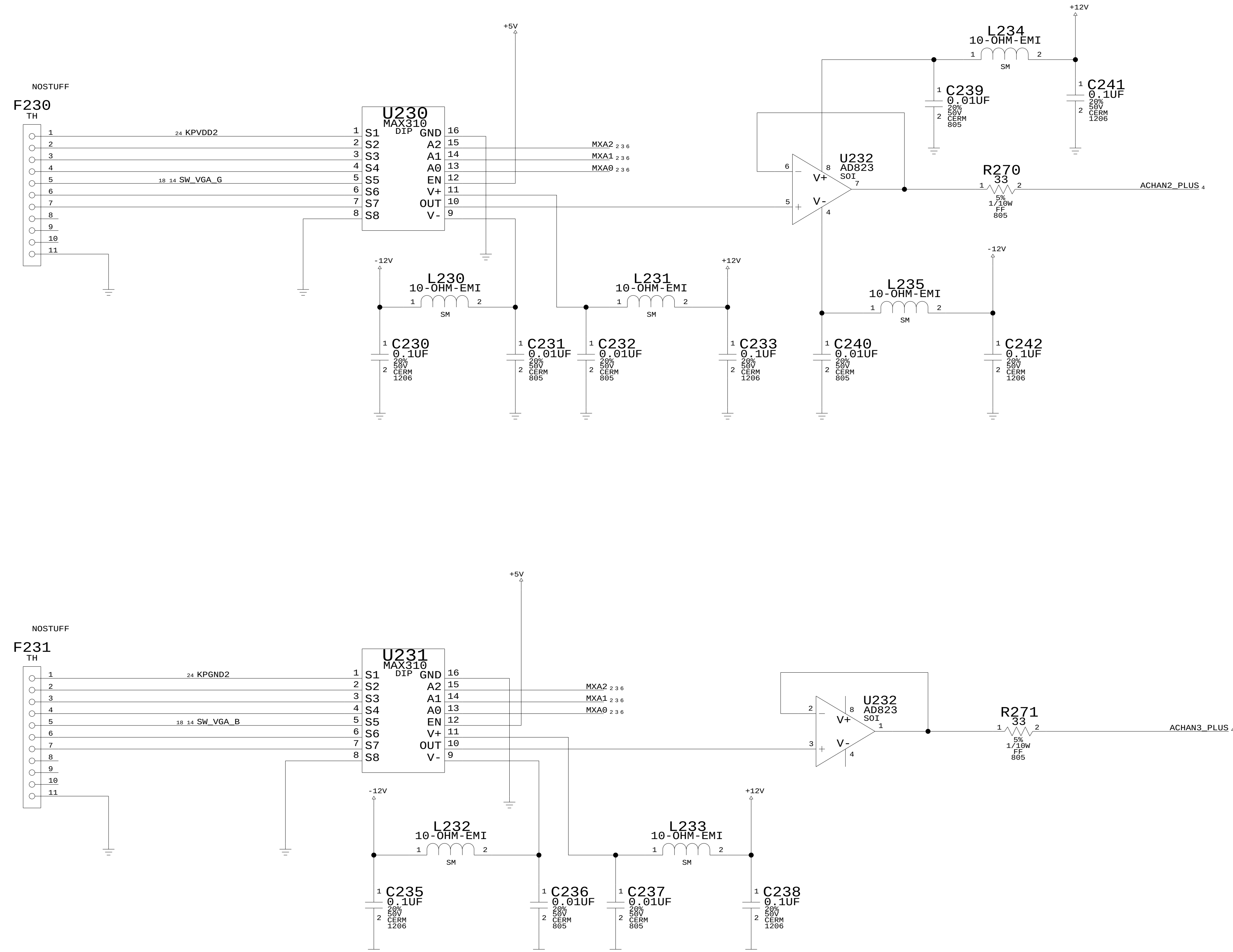
D	951-0292	3
SCALE NONE	SHT 2	OF 26



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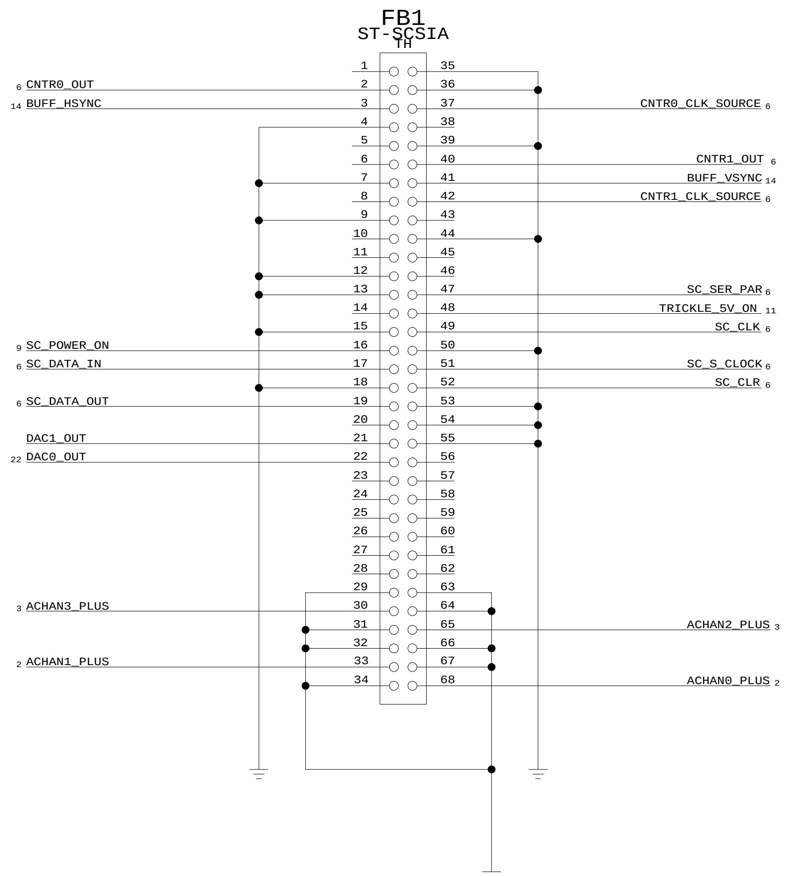
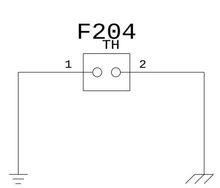
D	951-0292	3
SCALE NONE	SHT 3	OF 26





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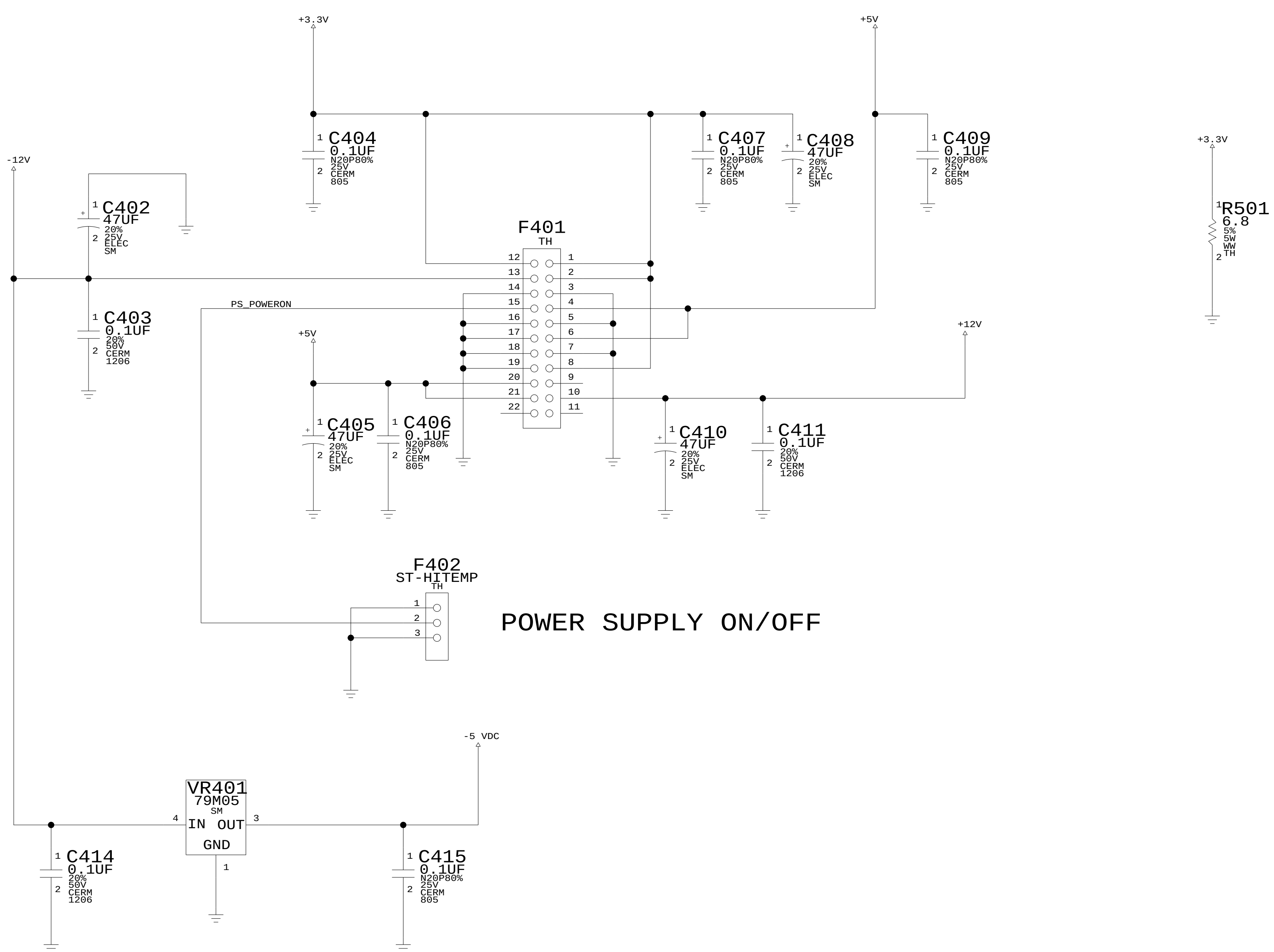
D	951-0292	3
SCALE NONE	SHT 4	OF 26

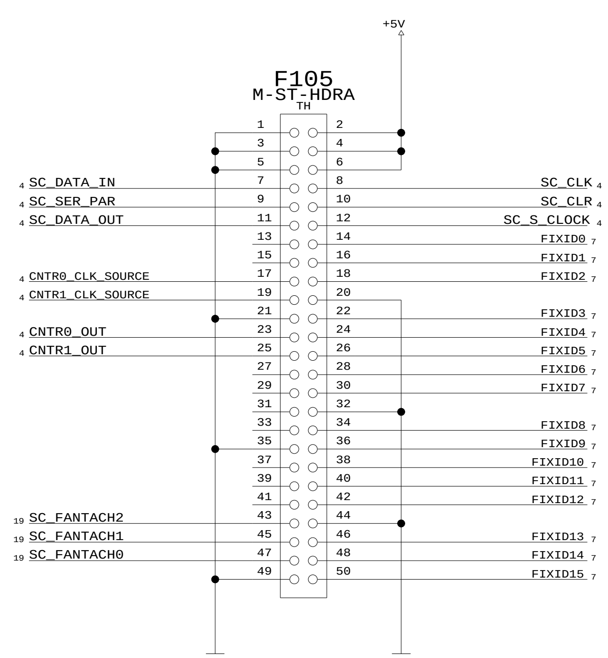
INTERFACE BOARD POWER CONNECTOR

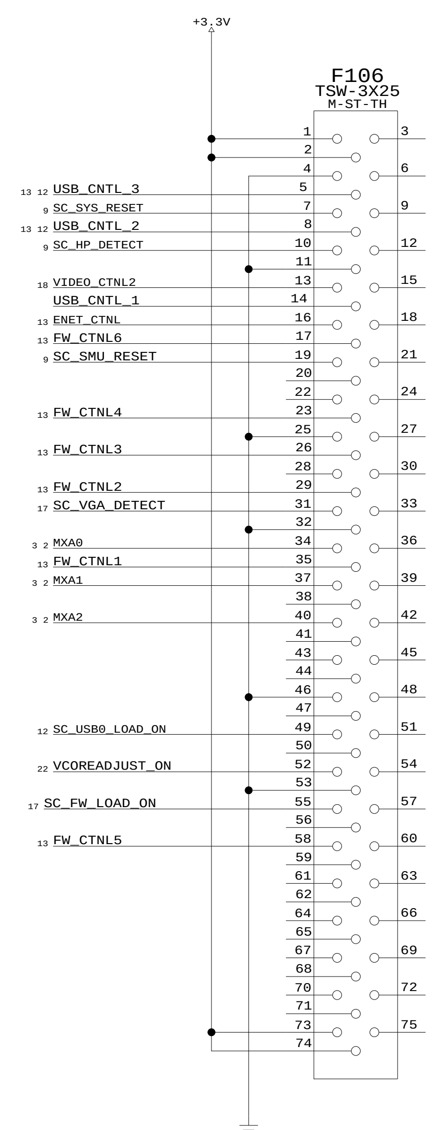


APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	951-0292	3
SCALE NONE	SHT 5	OF 26

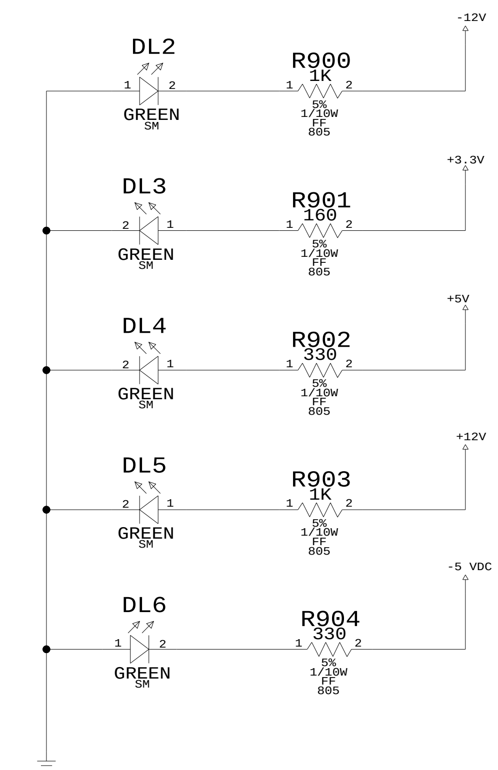
SCAN CARD CONNECTORS



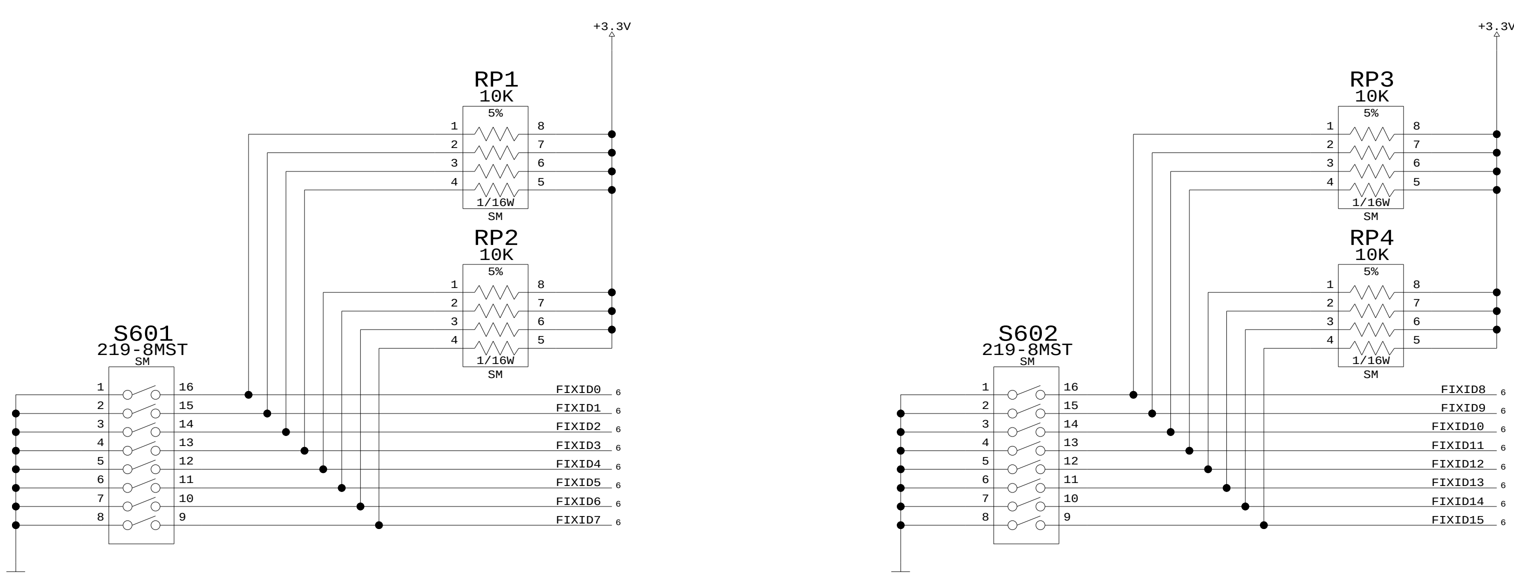


APPLE COMPUTER INC.	SIZE D	DRAWING NUMBER 951-0292	REV. 3
	SCALE NONE	SHT 6	OF 26

FIXTURE POWER ON LEDS

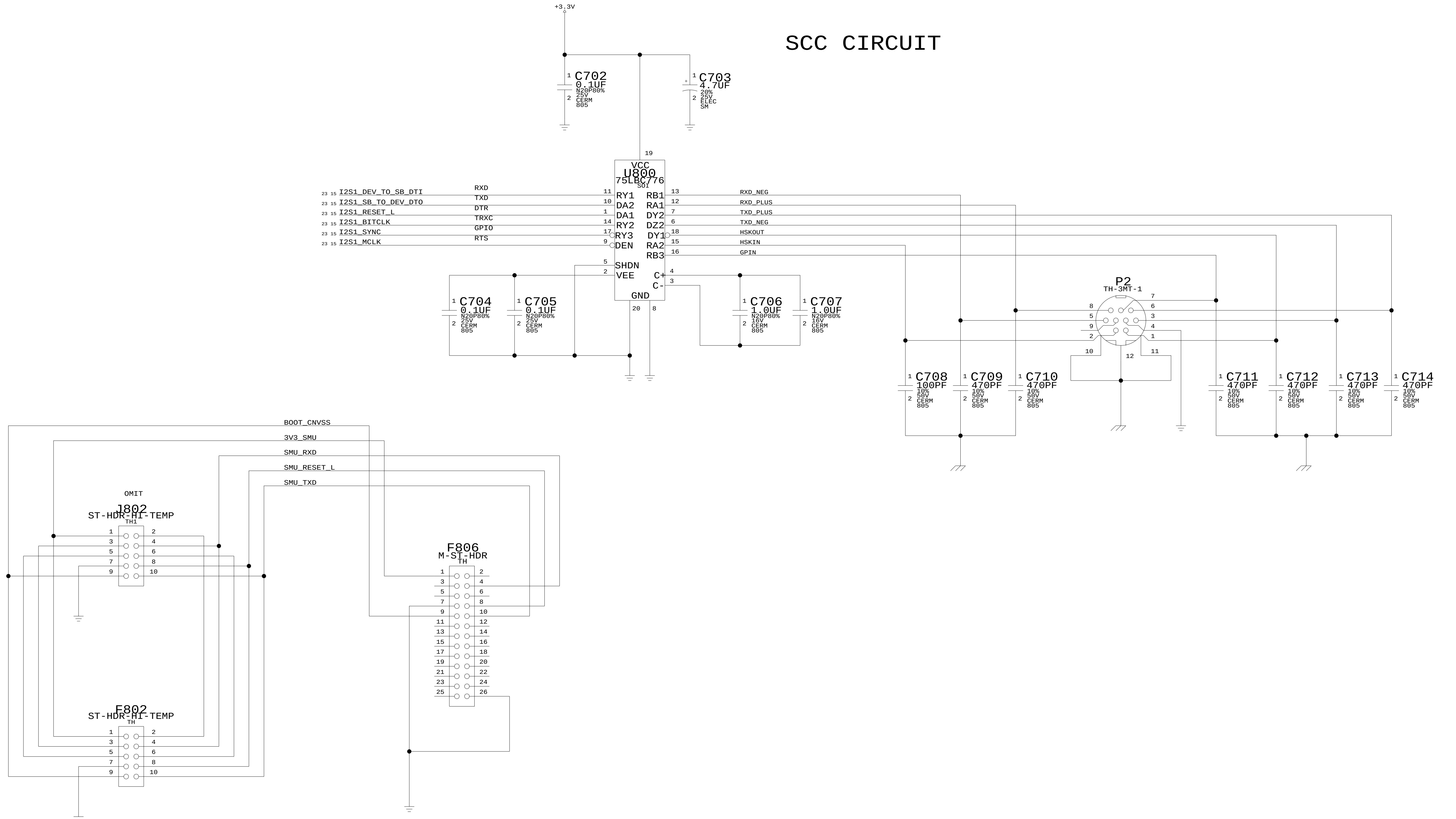


FIXTURE ID SWITCHES



APPLE COMPUTER INC.	SIZE D	DRAWING NUMBER 951-0292	REV. 3
	SCALE NONE	SHT 7 OF 26	

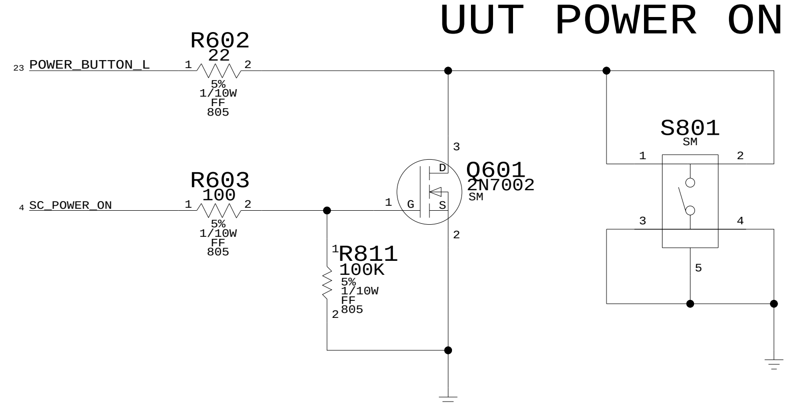
SCC CIRCUIT



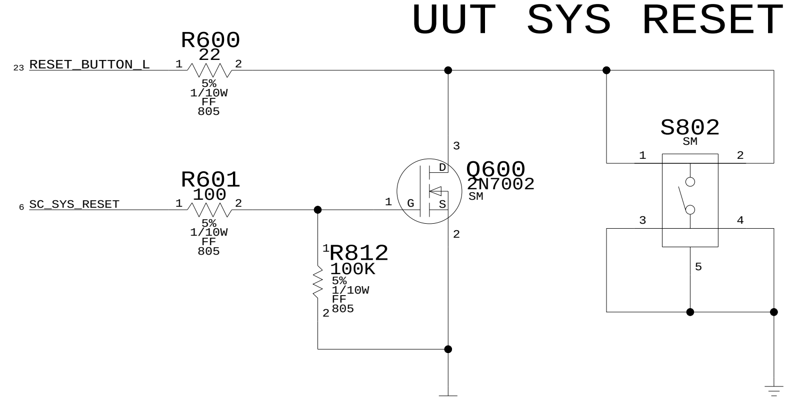
SMU DOWNLOAD CONNECTOR

APPLE COMPUTER INC.	SIZE D	DRAWING NUMBER 951-0292	REV. 3
	SCALE NONE	SHT 8	OF 26

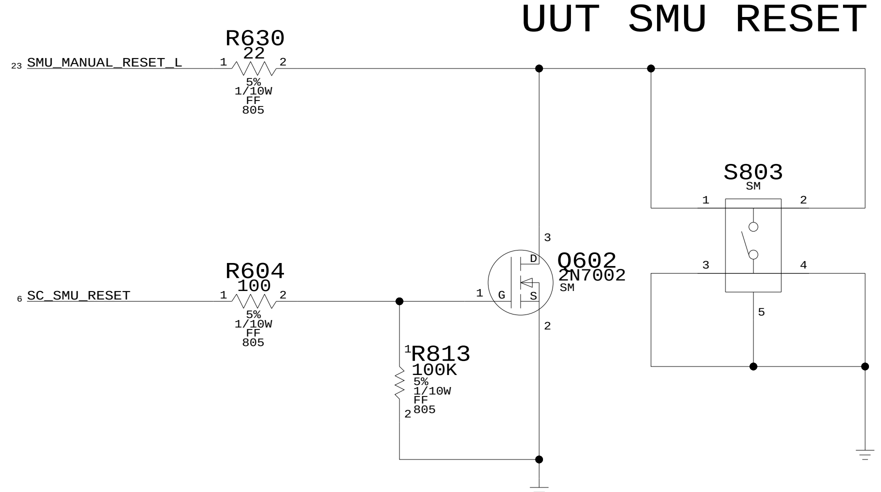
UUT POWER ON



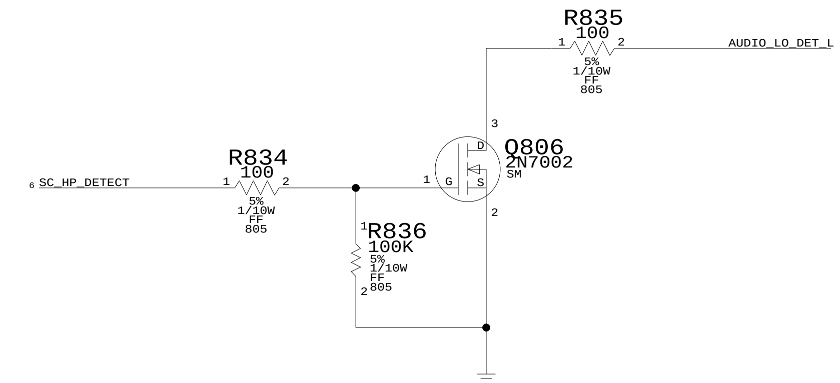
UUT SYS RESET



UUT SMU RESET



HEADPHONE DETECT PULL DOWN RESISTOR



APPLE COMPUTER INC.	SIZE D	DRAWING NUMBER 951-0292	REV. 3
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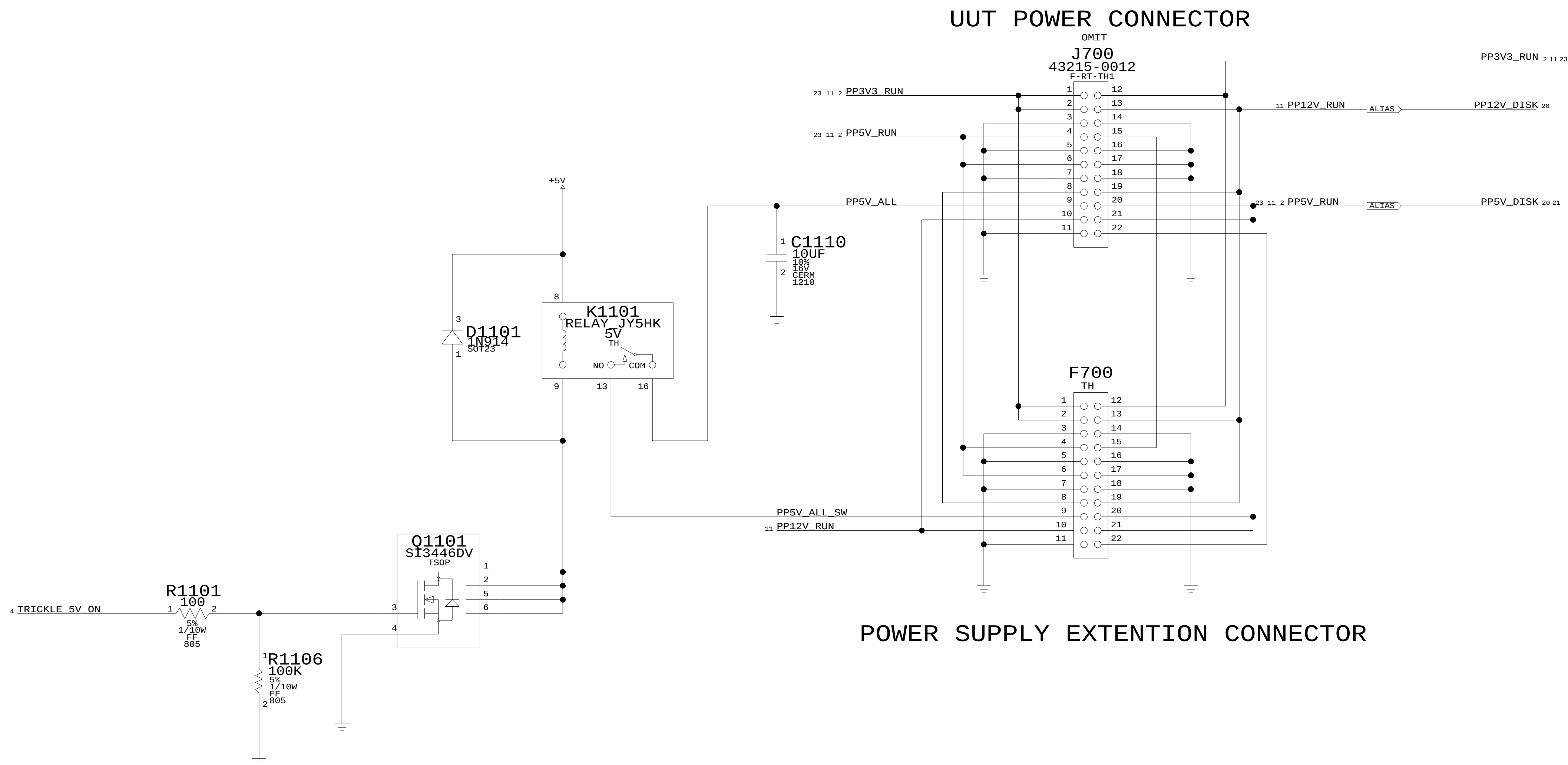
APPLE COMPUTER INC.	SIZE D	DRAWING NUMBER 951-0292	REV. 3
	SCALE NONE	SHT 10	OF 26



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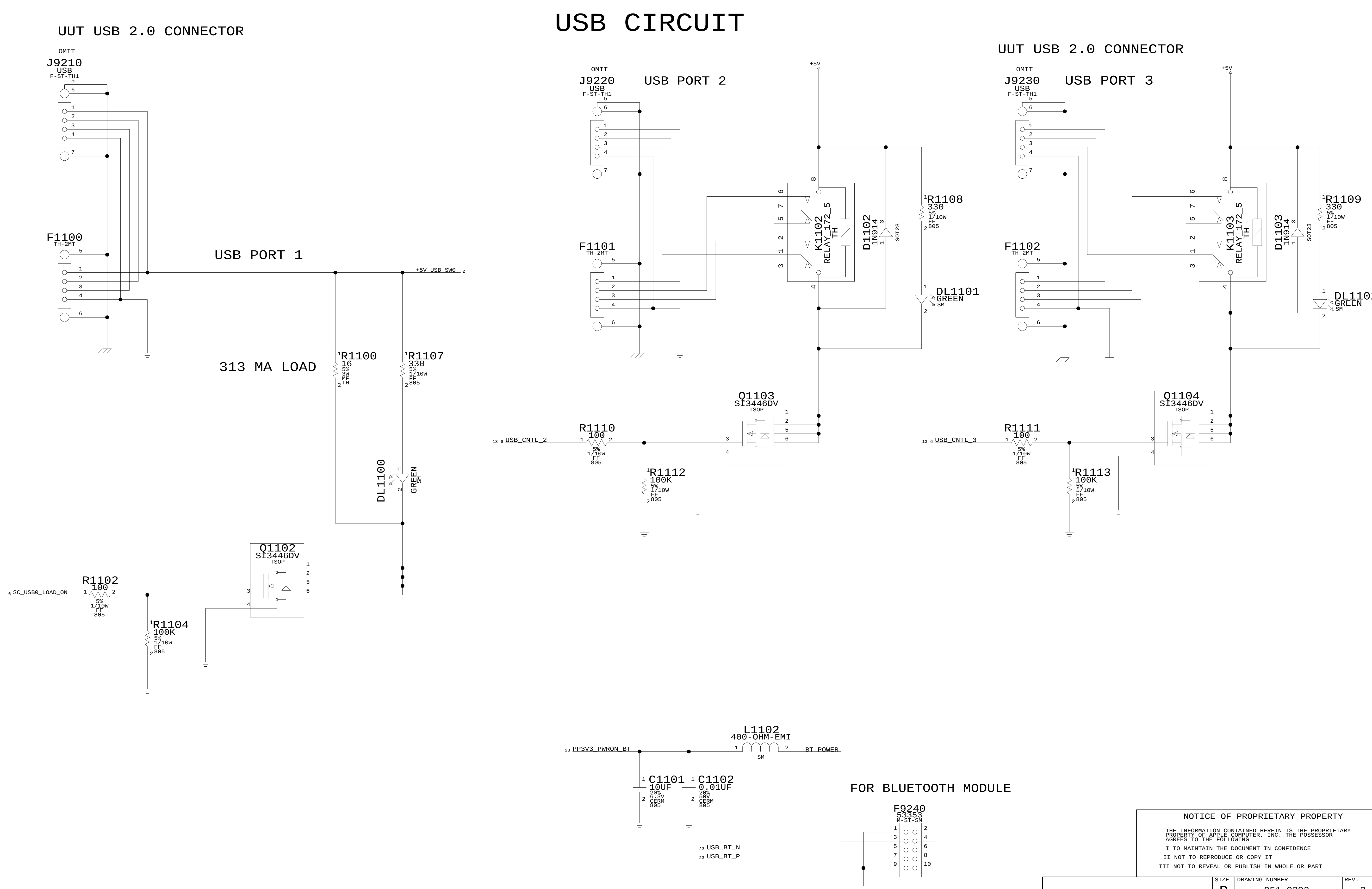
SIZE	DRAWING NUMBER	REV.
D	951-0292	3
SCALE NONE	SHT 11	OF 26

USB CIRCUIT



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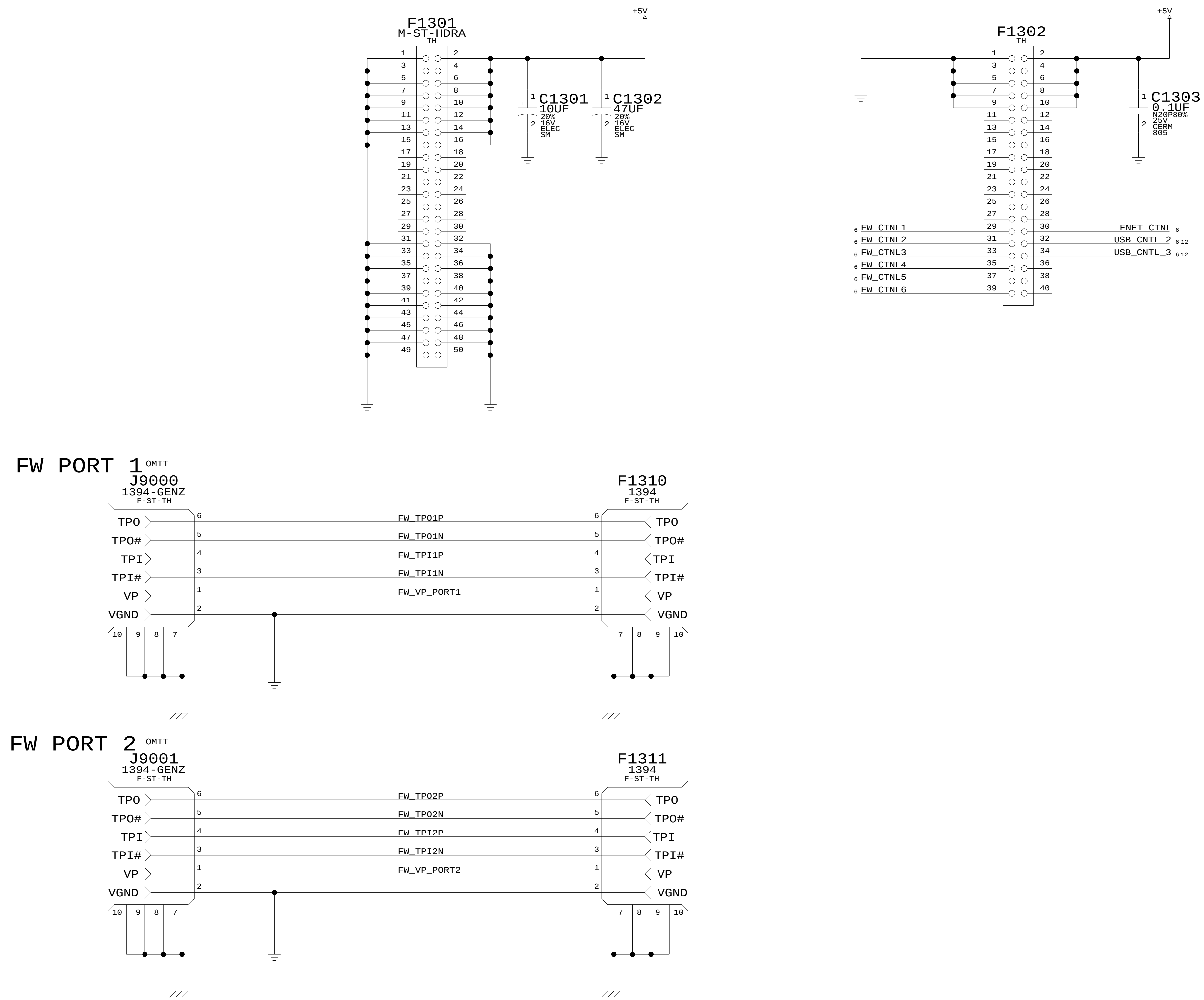
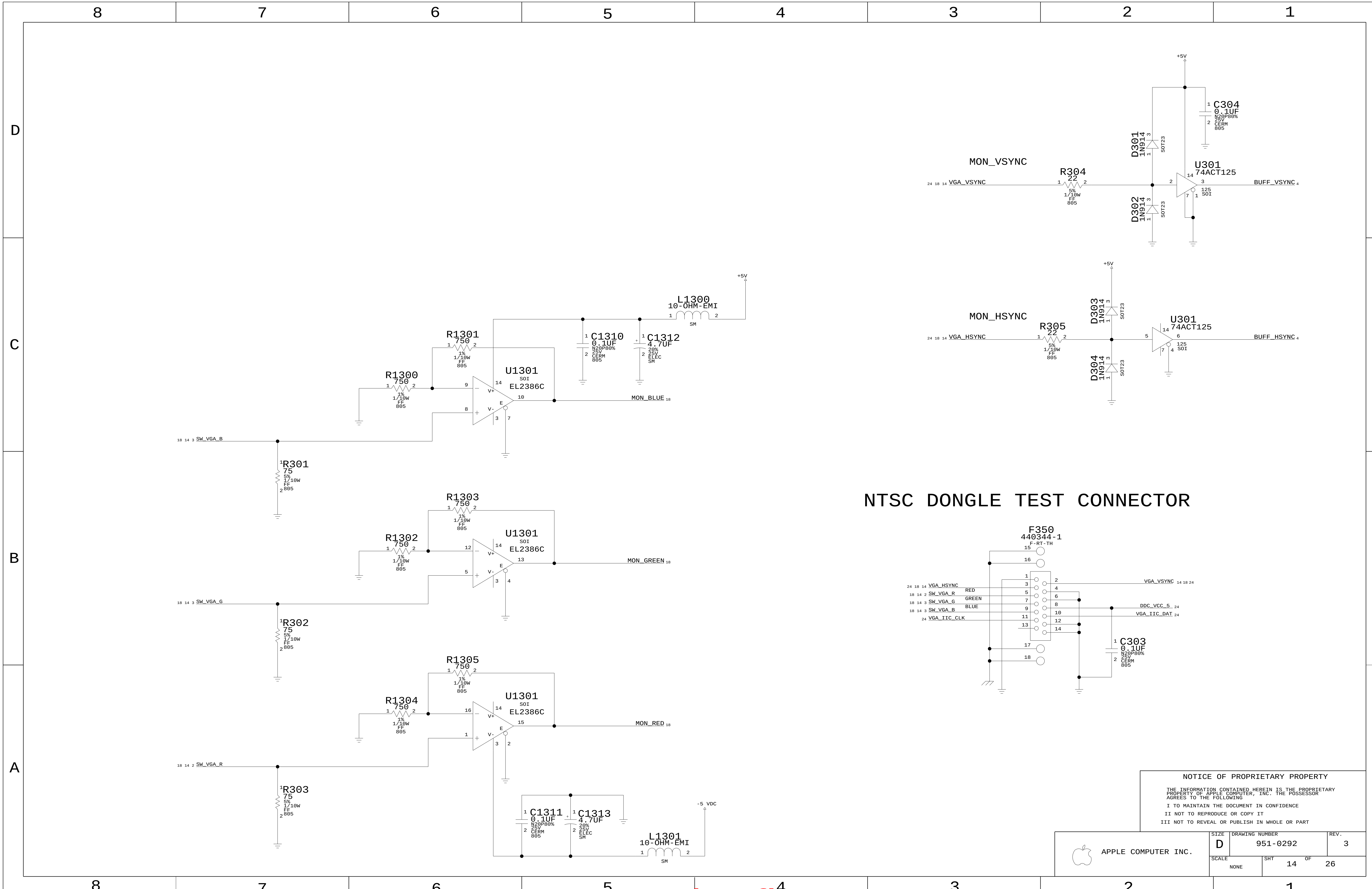
	SCALE NONE	SHT 12	OF 26

ETHERNET SWITCHING (EFU_MUX)



APPLE COMPUTER INC.	SIZE	DRAWING NUMBER	REV.
	D	951-0292	3
	SCALE NONE	SHT 13	OF 26


NTSC DONGLE TEST CONNECTOR
MON_VSYNC
VGA_VSYNC
R304
22
5%
1/10W
FF
805
D301
1N914
SOT23
D302
1N914
SOT23
C304
0.1UF
N20P80%
25V
CERM
805
+5V
U301
74ACT125
125
SOI
BUFF_VSYNC
MON_HSYNC
VGA_HSYNC
R305
22
D303
1N914
D304
1N914
U301
74ACT125
BUFF_HSYNC
L1300
10-OHM-EMI
SM
C1310
0.1UF
C1312
4.7UF
20%
25V
ELEC
SM
R1300
750
R1301
750
1%
1/10W
U1301
SOI
EL2386C
MON_BLUE
SW_VGA_B
R301
75
R1302
750
R1303
750
MON_GREEN
SW_VGA_G
R302
75
R1304
750
R1305
750
MON_RED
SW_VGA_R
R303
75
C1311
0.1UF
C1313
4.7UF
L1301
10-OHM-EMI
-5 VDC
F350
440344-1
F-RT-TH
VGA_HSYNC
SW_VGA_R
SW_VGA_G
SW_VGA_B
VGA_IIC_CLK
RED
GREEN
BLUE
VGA_VSYNC
DDC_VCC_5
VGA_IIC_DAT
C303
0.1UF
N20P80%
25V
CERM
805
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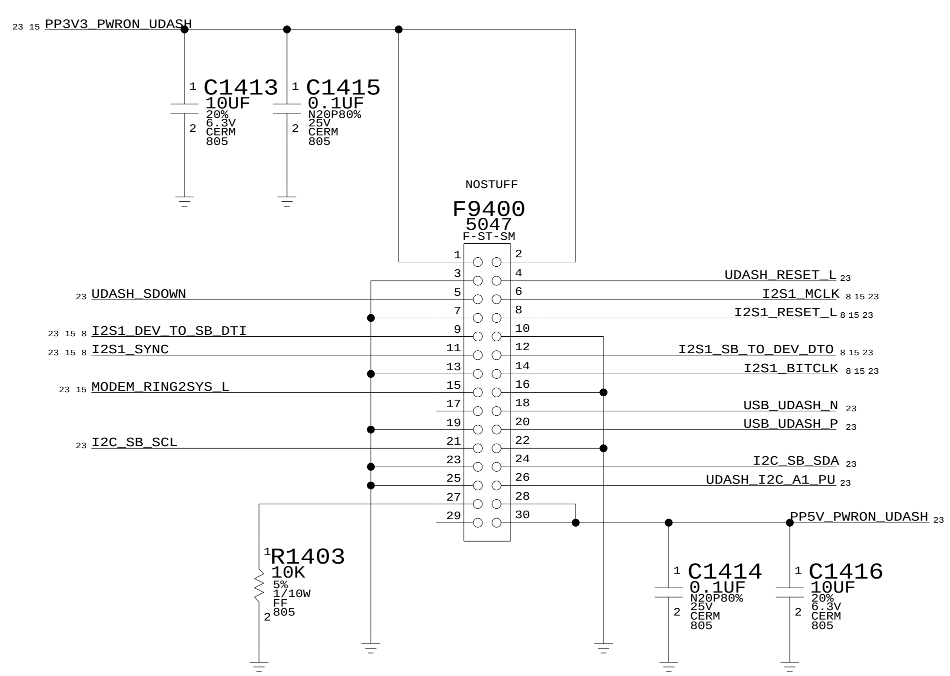
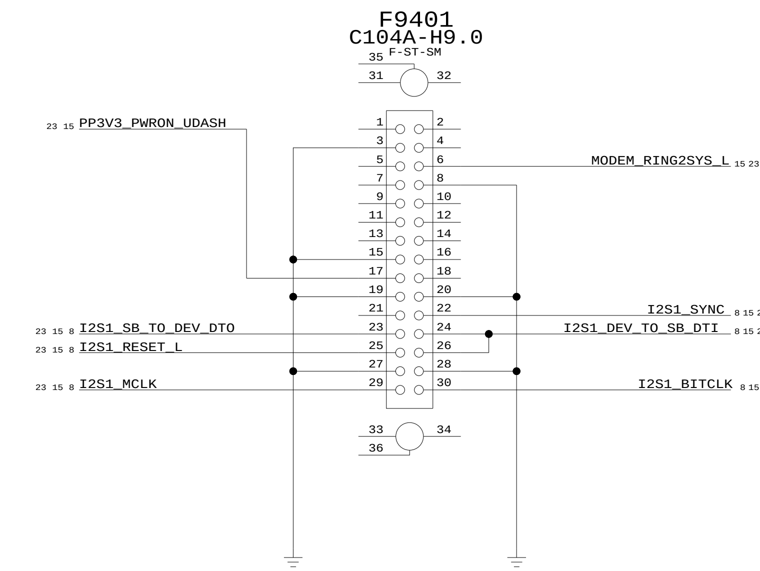
APPLE COMPUTER INC.
SIZE
D
DRAWING NUMBER
951-0292
REV.
3
SCALE
NONE
SHT
14
OF
26

DASH MODEM CONNECTOR



SOFT MODEM



APPLE COMPUTER INC.	SIZE D	DRAWING NUMBER 951-0292	REV. 3
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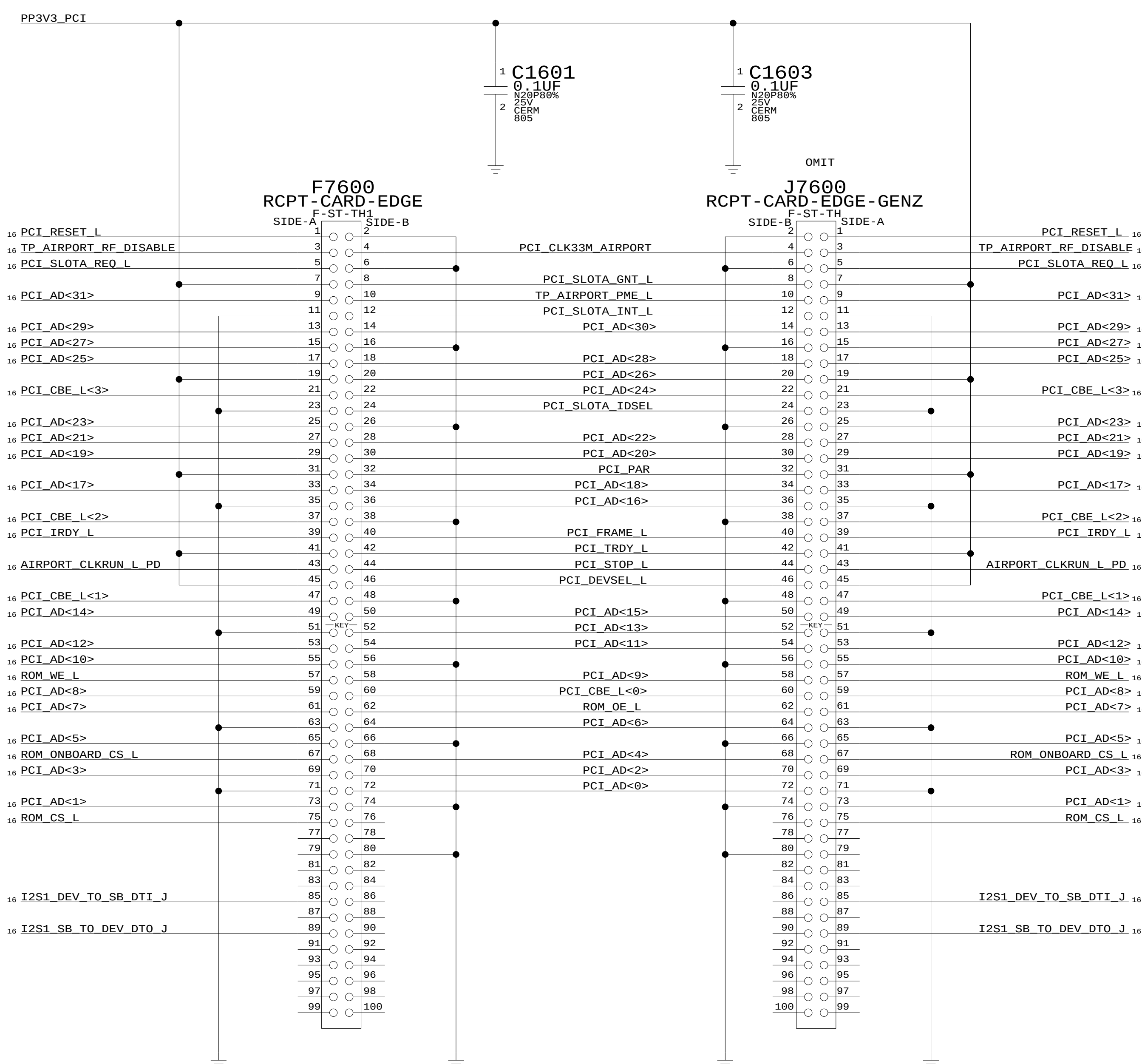
AIRPORT CARD CONNECTOR



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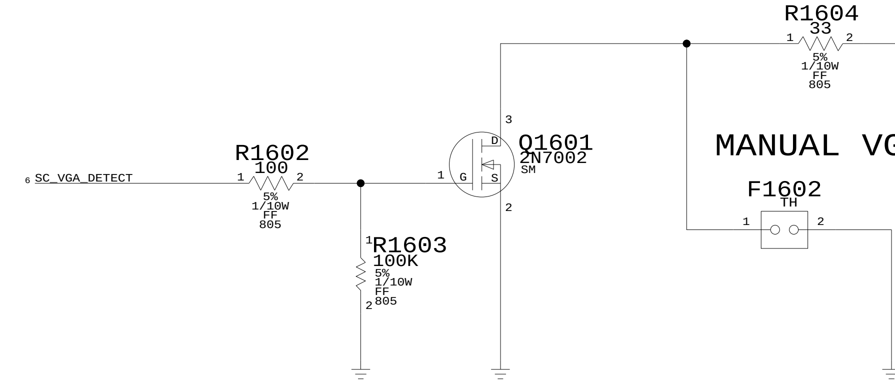
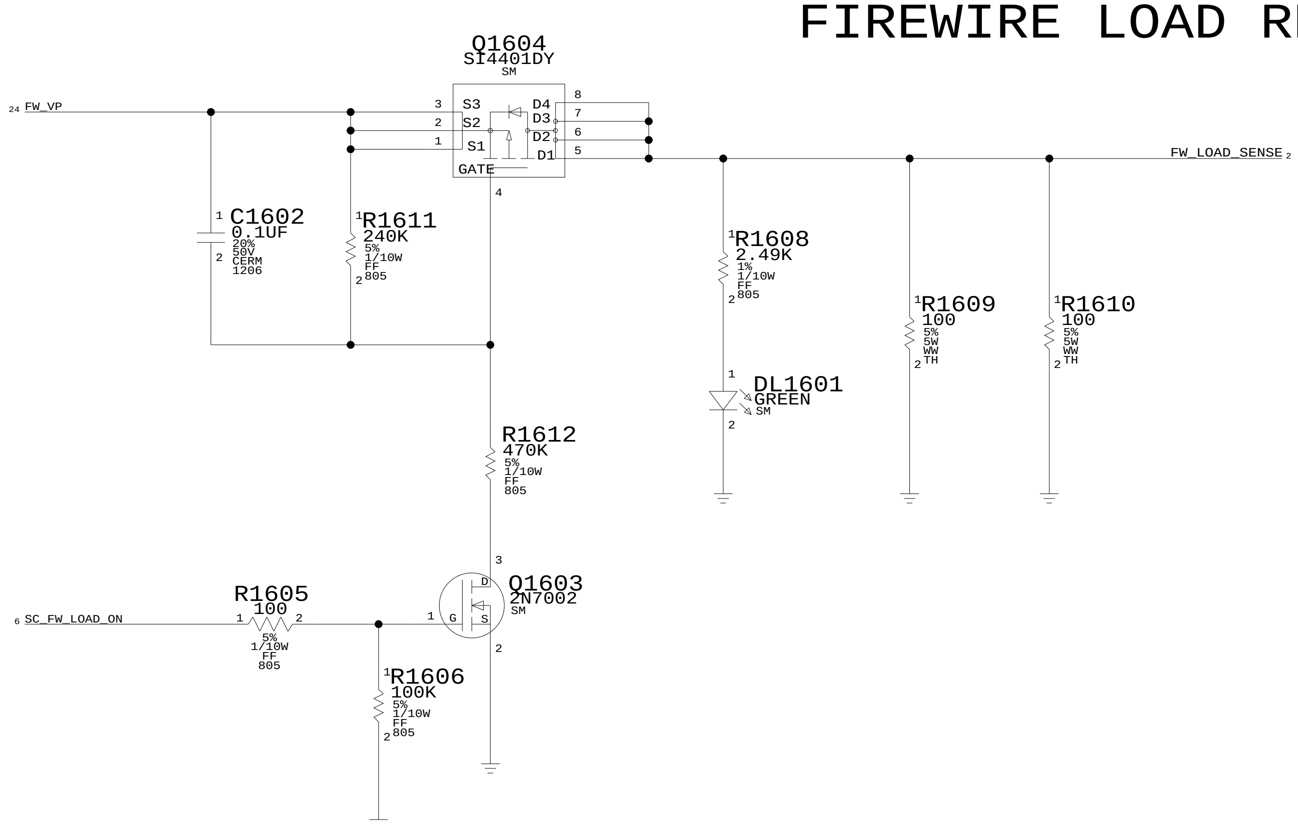
	SCALE NONE	SHT 16	OF 26

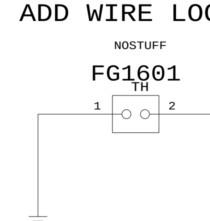
VGA DETECT FOR S-VIDEO/COMPOSITE AND SVGA MONITOR



FIREWIRE LOAD RESISTOR



ADD WIRE LOOP



APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	951-0292	3
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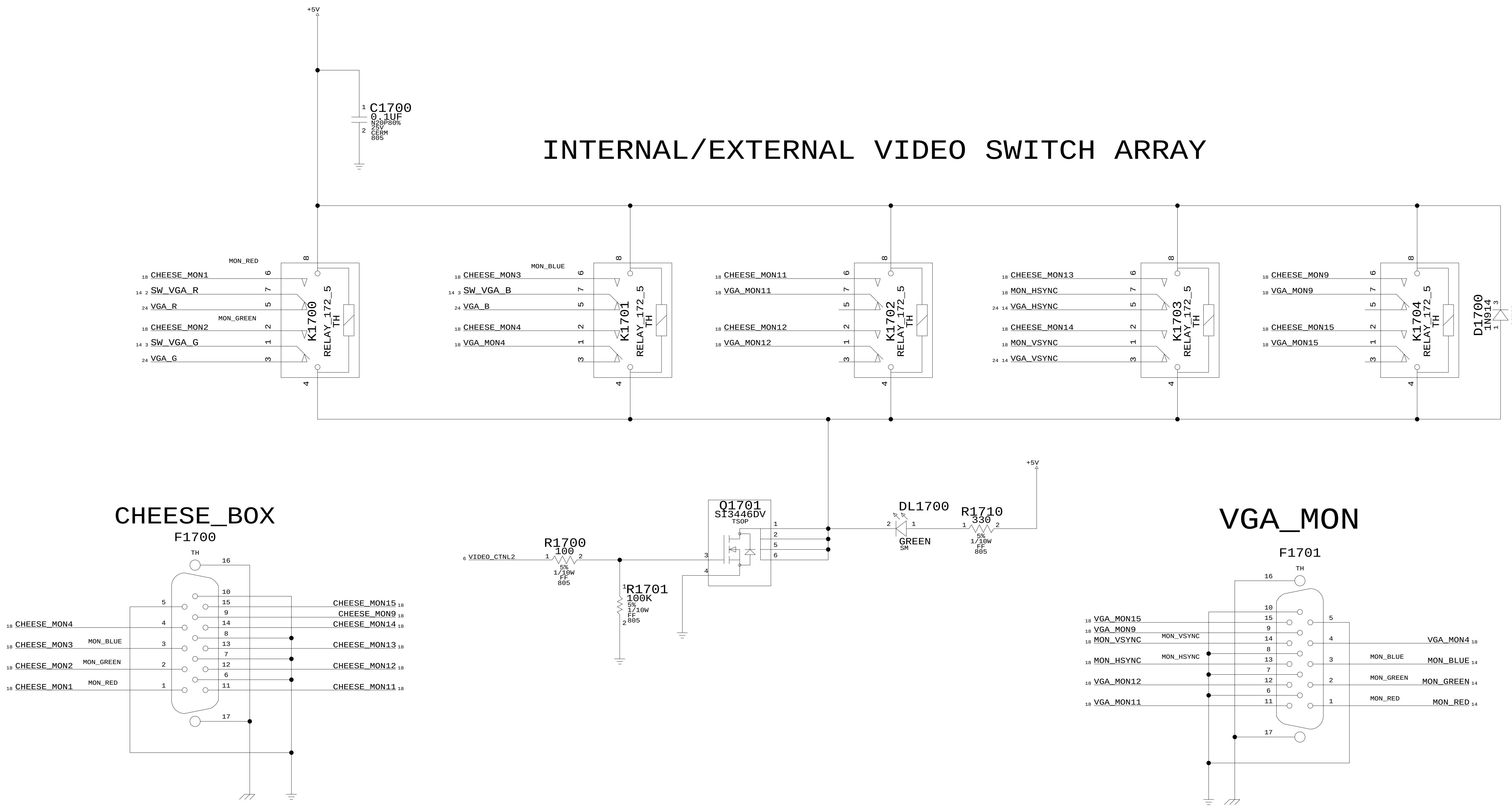
INTERNAL/EXTERNAL VIDEO SWITCH ARRAY



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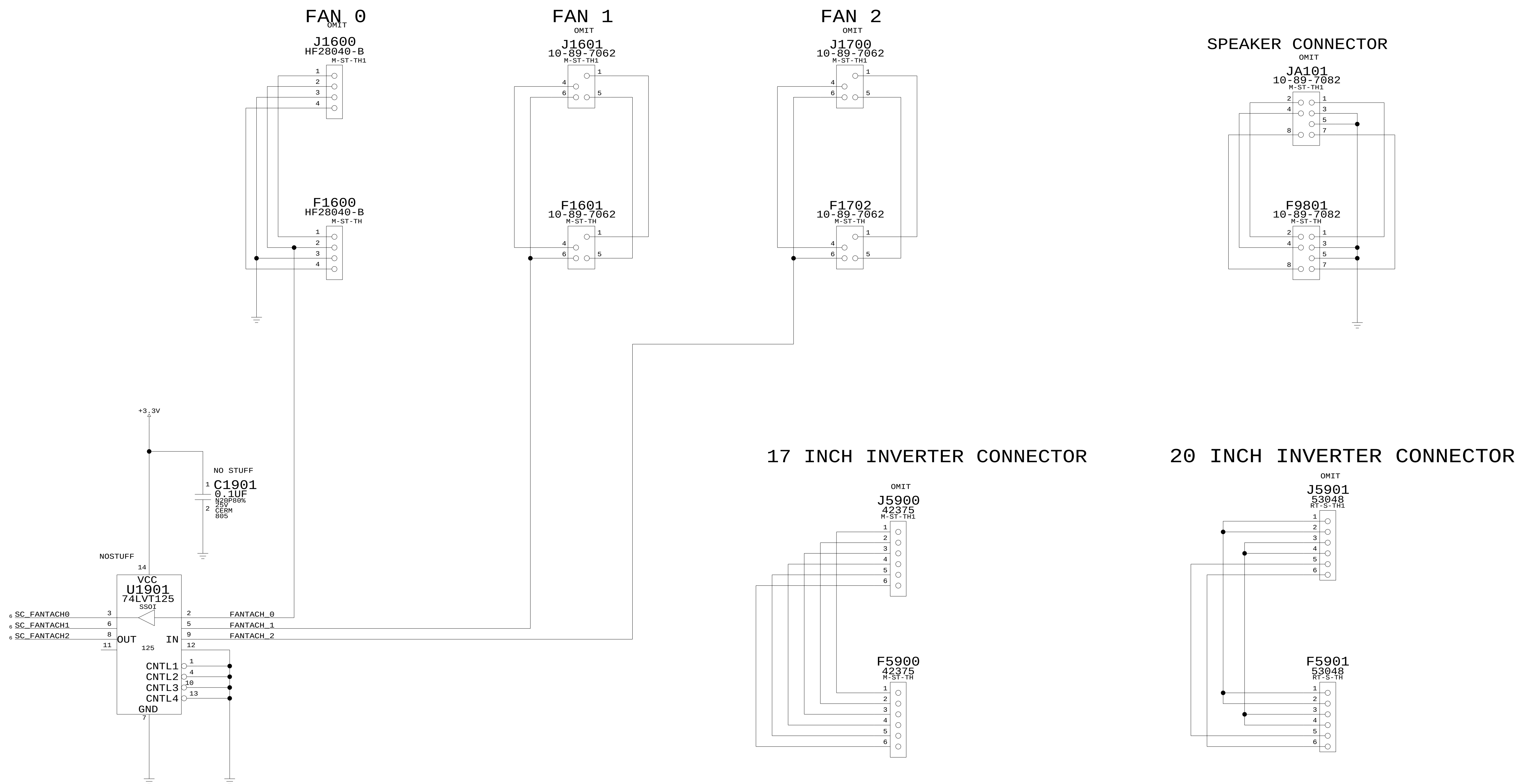

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SIZE	DRAWING NUMBER	REV.
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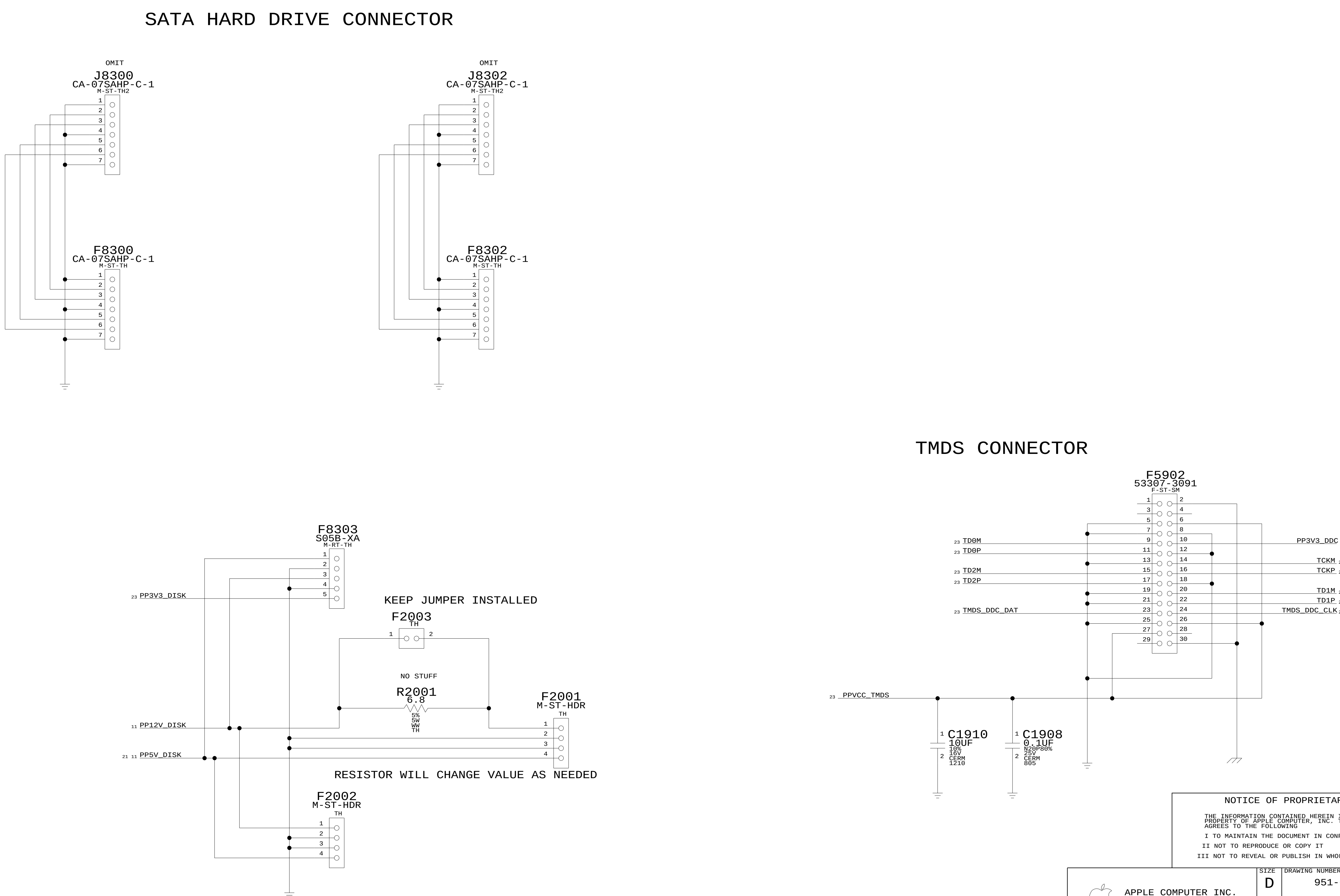
SCALE NONE	SHT 19	OF 26



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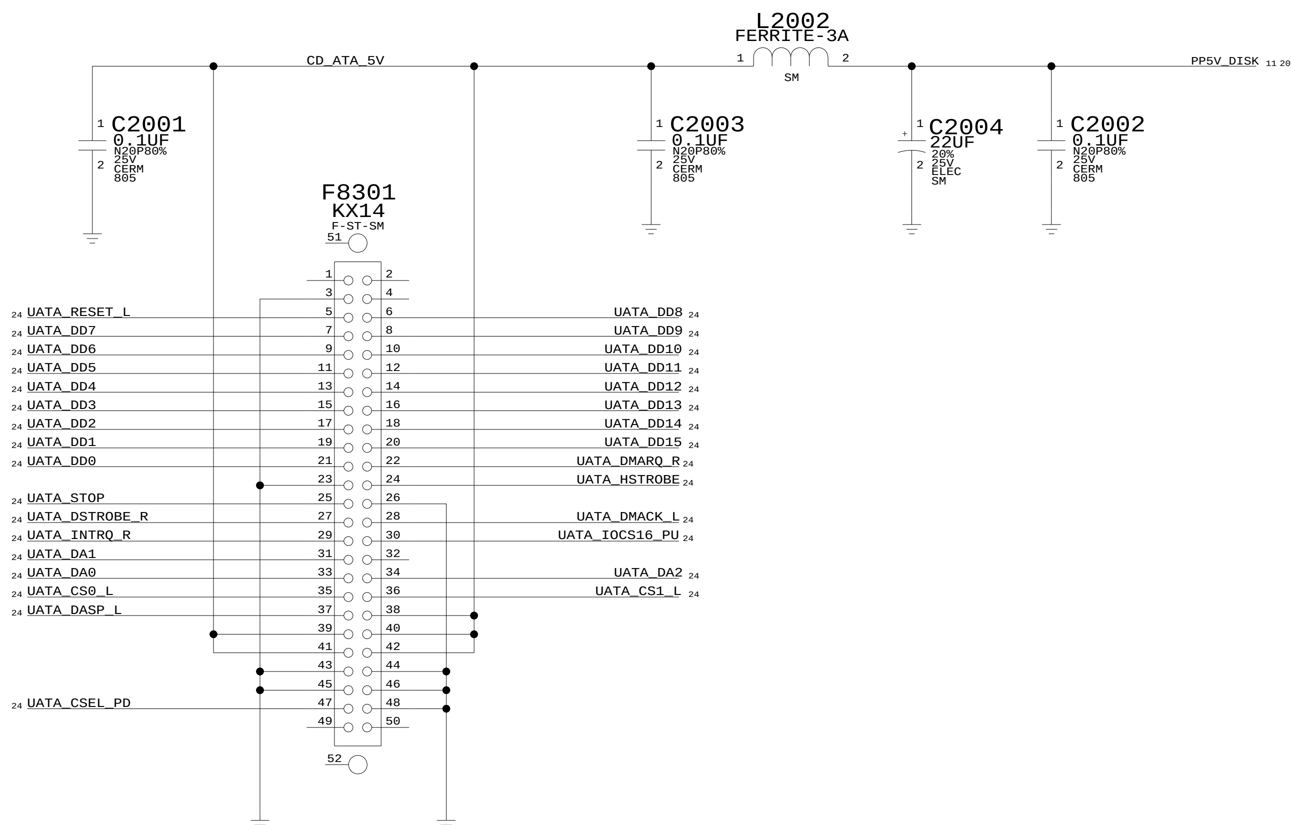
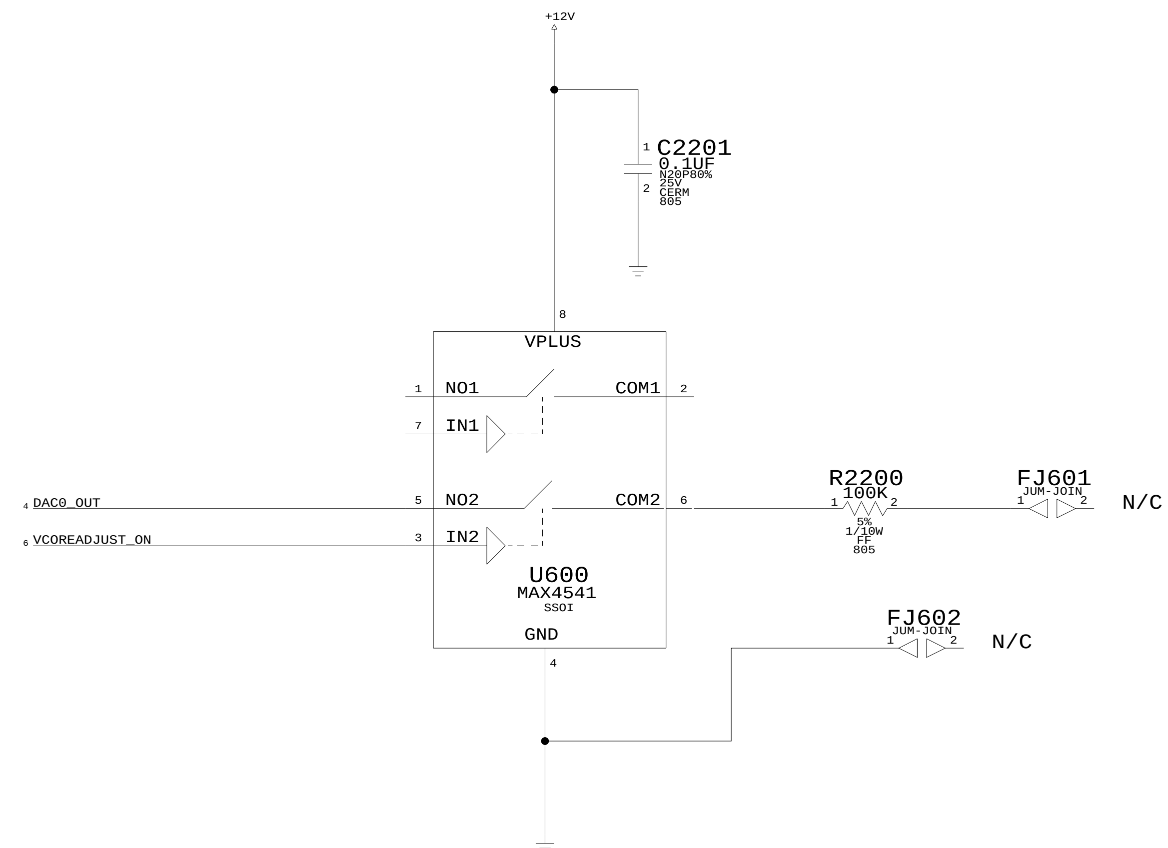
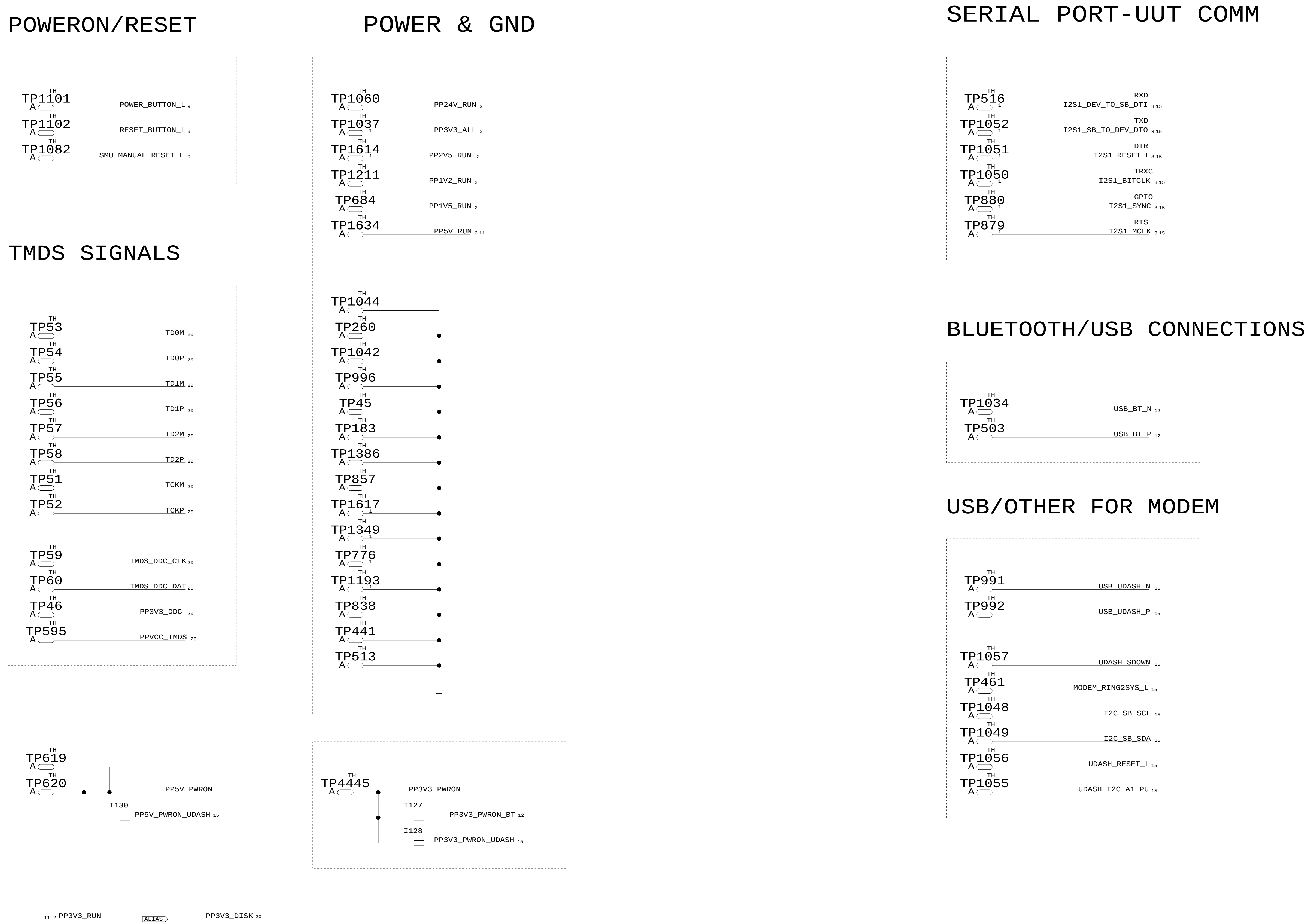


CONNECTOR FOR CD

APPLE COMPUTER INC.	SIZE D	DRAWING NUMBER 951-0292	REV. 3
	SCALE NONE	SHT 21	OF 26



APPLE COMPUTER INC.	SIZE: D	DRAWING NUMBER: 951-0292	REV.: 3
	SCALE: NONE	SHT 22 OF 26	



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CD TP'S

Test point	Signal	Sheet
TP33	UATA_DD15	21
TP32	UATA_DD14	21
TP31	UATA_DD13	21
TP22	UATA_DD12	21
TP21	UATA_DD11	21
TP20	UATA_DD10	21
TP24	UATA_DD9	21
TP4	UATA_DD8	21
TP3	UATA_DD7	21
TP23	UATA_DD6	21
TP2	UATA_DD5	21
TP1	UATA_DD4	21
TP34	UATA_DD3	21
TP10	UATA_DD2	21
TP9	UATA_DD1	21
TP8	UATA_DD0	21
TP535	UATA_RESET_L	21
TP15	UATA_STOP	21
TP17	UATA_DSTROBE_R	21
TP18	UATA_INTRQ_R	21
TP30	UATA_DA2	21
TP7	UATA_DA1	21
TP29	UATA_DA0	21
TP41	UATA_DASP_L	21
TP27	UATA_CS1_L	21
TP5	UATA_CS0_L	21
TP16	UATA_CSEL_PD	21
TP42	UATA_DMARQ_R	21
TP43	UATA_IOCS16_PU	21
TP35	UATA_DMACK_L	21
TP38	UATA_HSTROBE	21

EXTERNAL VIDEO

Test point	Signal	Sheet
TP378	VGA_R	18
TP376	VGA_B	18
TP377	VGA_G	18
TP643	VGA_HSYNC	14 18
TP1000	VGA_VSYNC	14 18
TP859	MON_DETECT	17
TP373	VGA_IIC_CLK	14
TP374	VGA_IIC_DAT	14
TP375	DDC_VCC_5	14

MISC SIGNALS

Test point	Signal	Sheet
TP794	FW_VP	17
TP2347	AUDIO_LO_DET_L	9
TP1399	KPVDD2	3
TP1398	KPGND2	3

APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
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*** Signal Cross-Reference for the entire design ***

+5V_USB_SW0        2D7< 12C5<>
3V3_SMU            8C7<>
ACHAN0_PLUS        2D2< 4C6<
ACHAN1_PLUS        2A2< 4C8<
ACHAN2_PLUS        3C2< 4C6<
ACHAN3_PLUS        3B2< 4C8<
AIRPORT_CLKRUN_L_PD  16B4< 16B7<
AUDIO_LO_DET_L     9D1< 24C2<>
BOOT_CNVSS         8C7<>
BT_POWER           12A4<>
BUFF_HSYNC         4D8< 14C1<>
BUFF_VSYNC         4D6< 14D1<>
CD_ATA_5V          21C7<>
CHEESE_MON1        18A8<> 18C7<>
CHEESE_MON2        18B8<> 18C7<>
CHEESE_MON3        18B8<> 18C6<>
CHEESE_MON4        18B8<> 18C6<>
CHEESE_MON9        18B6<> 18C2<>
CHEESE_MON11       18A6<> 18C5<>
CHEESE_MON12       18B6<> 18C5<>
CHEESE_MON13       18B6<> 18C3<>
CHEESE_MON14       18B6<> 18C3<>
CHEESE_MON15       18B6<> 18C2<>
CNTR0_CLK_SOURCE   4D6< 6B8<>
CNTR0_OUT          4D8< 6A8<>
CNTR1_CLK_SOURCE   4D6< 6B8<>
CNTR1_OUT          4D6< 6A8<>
DAC0_OUT           4C8< 22C5<>
DAC1_OUT           4C8<
DDC_VCC_5          14B2<> 24C4<>
ENET_CTNL          6B5<> 13C3<>
FANTACH_0          19B7<>
FANTACH_1          19B7<>
FANTACH_2          19B7<>
FIXID0             6B6<> 7A6<>
FIXID1             6B6<> 7A6<>
FIXID2             6B6<> 7A6<>
FIXID3             6B6<> 7A6<>
FIXID4             6A6<> 7A6<>
FIXID5             6A6<> 7A6<>
FIXID6             6A6<> 7A6<>
FIXID7             6A6<> 7A6<>
FIXID8             6A6<> 7A4<>
FIXID9             6A6<> 7A4<>
FIXID10            6A6<> 7A4<>
FIXID11            6A6<> 7A4<>
FIXID12            6A6<> 7A4<>
FIXID13            6A6<> 7A4<>
FIXID14            6A6<> 7A4<>
FIXID15            6A6<> 7A4<>
FW_CTNL1           6B5<> 13C4<>
FW_CTNL2           6B5<> 13C4<>
FW_CTNL3           6B5<> 13C4<>
FW_CTNL4           6B5<> 13C4<>
FW_CTNL5           6A5<> 13C4<>
FW_CTNL6           6B5<> 13C4<>
FW_LOAD_SENSE      2D7< 17B4<>
FW_TPI1N           13B6<
FW_TPI1P           13B6<
FW_TPI2N           13A6<
FW_TPI2P           13A6<
FW_TPO1N           13B6>
FW_TPO1P           13B6>
FW_TPO2N           13A6>
FW_TPO2P           13A6>
FW_VP              17B8<> 24C2<>
FW_VP_PORT1        13B6<
FW_VP_PORT2        13A6<
GPIN               8C4<>
HSKIN              8C4<>
HSKOUT             8C4<>
I2C_SB_SCL         15C7<> 23A3<>
I2C_SB_SDA         15C5<> 23A3<>
I2S1_BITCLK        8C6<> 15C1<> 15C5<> 23C3<>
I2S1_DEV_TO_SB_DTI  8D6<> 15C1<> 15C7<> 23D3<>
I2S1_DEV_TO_SB_DTI_J  16B4< 16B7<
I2S1_MCLK          8C6<> 15C3<> 15C5<> 23C3<>
I2S1_RESET_L       8C6< 15C3<> 15C5<> 23D3<>
I2S1_SB_TO_DEV_DTO  8D6<> 15C3<> 15C5<> 23D3<>
I2S1_SB_TO_DEV_DTO_J  16A4< 16A7<
I2S1_SYNC          8C6<> 15C1<> 15C7<> 23C3<>
KPGND2             3B6<> 24C2<>
KPVDD2             3C6<> 24C2<>
MODEM_RING2SYS_L  15C1<> 15C7<> 23B3<>
MON_BLUE           14C5<> 18B1<>
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PCI_SLOTA_REQ_L    16C4< 16C7<
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PP1V5_RUN          2B7< 23C6<>
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PP12V_DISK         11D1> 20A7<>
PP12V_RUN          11B4<> 11D2<>
PP24V_RUN          2D7< 23D6<>
PPVCC_TMDS         20A3<> 23B7<>
PS_POWERON         5C7<>
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SC_FANTACH2        6A8<> 19B8<>
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SMU_TXD            8B7<>
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TD2P               20B3<> 23B7<>
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APPLE COMPUTER INC.

SIZE	DRAWING NUMBER	REV.
D	951-0292	3

SCALE	SHT	OF
NONE	25	26

*** Part Cross-Reference for the entire design ***

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C200  CAP       2
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C1302 CAP_P     13
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C1700 CAP       18
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C1908 CAP       20
C1910 CAP       20
C2001 CAP       21
C2002 CAP       21
C2003 CAP       21
C2004 CAP_P     21
C2201 CAP       22
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D302  DIODE     14
D303  DIODE     14
D304  DIODE     14
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D1102 DIODE     12
D1103 DIODE     12
D1700 DIODE     18
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DL3   LED       7
DL4   LED       7
DL5   LED       7
DL6   LED       7
DL1100 LED       12
DL1101 LED       12
DL1102 LED       12
DL1601 LED       17
DL1700 LED       18
F105  CON_M50ST_HDRA 6
F106  CON_M75ST_T_TH 6
F204  CON_M2ST_HDR_SNAP 4
F230  CON_M11ST_100P 3
F231  CON_M11ST_100P 3
F350  CON_F14RT_D4MT_TH2 14
F401  CON_M22ST_HTEMP 5
F402  CON3      5
F700  CON_M22ST_HTEMP 11
F802  CON_10ST_HDR 8
F806  CON_M26ST_HDR 8
F1100 CON_F4RT_USB_A 12
F1101 CON_F4RT_USB_A 12
F1102 CON_F4RT_USB_A 12
F1301 CON_M50ST_HDRA 13
F1302 CON_M40ST_HDR 13
F1310 CON_F6ST_S4MT_TH1 13
F1311 CON_F6ST_S4MT_TH1 13
F1600 CON_M4ST_LCK 19
F1601 CON_M4ST_D_TH1 19
F1602 CON_M2ST_HDR_SNAP 17
F1700 CON_F15ST_DBLP 18
F1701 CON_F15ST_DBLP 18
F1702 CON_M4ST_D_TH1 19
F2001 CON_M4ST_HDR 20
F2002 CON_M4ST_HDR 20
F2003 CON_M2ST_HDR_SNAP 20
F5900 CON_M6ST_S_TH 19
F5901 CON_M6RT_S_TH 19
F5902 CON_F30ST_D_SM 20
F7600 CON_F100ST_D_TH 16
F8300 CON_M7ST_SATA_TH 20
F8301 CON_F50ST_D2MT_SM 21
F8302 CON_M7ST_SATA_TH 20
F8303 CON_M5RT_S_TH 20
F9240 CON_M10ST_D_SMA 12
F9400 CON_F30ST_D_SM 15
F9401 CON_F30ST_D6MT_SM 15
F9801 CON_M7ST_D_TH1 19
FB1   CON_68ST_SCSIA 4
FG201 CON_M2ST_HDR_SNAP 2
FG1601 CON_M2ST_HDR_SNAP 17
FJ601 JUM_JOIN  22
FJ602 JUM_JOIN  22
J700  CON_F22RT_D_TH1 11
J802  CON_10ST_HDR 8
J1600 CON_M4ST_LCK 19
J1601 CON_M4ST_D_TH1 19
J1700 CON_M4ST_D_TH1 19
J5900 CON_M6ST_S_TH 19
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J7600 CON_F100ST_D_TH 16
J8300 CON_M7ST_SATA_TH 20
J8302 CON_M7ST_SATA_TH 20
J9000 CON_F6ST_S4MT_TH1 13
J9001 CON_F6ST_S4MT_TH1 13
J9210 CON_F4ST_USB_S3MT_TH 12
J9220 CON_F4ST_USB_S3MT_TH 12
J9230 CON_F4ST_USB_S3MT_TH 12
JA101 CON_M7ST_D_TH1 19
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K1102 RELAY_172_5 12
K1103 RELAY_172_5 12
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K1703 RELAY_172_5 18
K1704 RELAY_172_5 18
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L1300 IND       14
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L2002 IND       21
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Q602  TRA_2N7002 9
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Q1603 TRA_2N7002 17
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Q1701 TRA_SI3446DV 18
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S602  SWI_8PAK  7
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TP2347 TP        24
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U231  MAX310    3
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U600  SWI_MAX4541 22
U800  75LBC776  8
U1301 VIDBUF_EL2386C 14
U1901 74125     19
VR401 VREG_79M05 5
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	SCALE NONE	SHT 26	OF 26