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TV OUT
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CRT DISPLAY
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ATi M24-P_A23
M26-P_A13
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DDR 1.8V
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DDR DRAM
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SYS POWER

M24-POWER

REGULAR
VCCP
VCCA
VCC_MCH
VCC FOR M24

CHARGER

CPU POWER

DDR POWER

+3V +5V

DC JACK &
SELECTOR

14MHZ CRYSTAL

100/133MHZ HOST
66MHZ DMI
33MHZ PCI
100 MHZ PCI Express

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ICS 954201
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14MHZ VGA& SB

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5789
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MDC
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PCI Express x1

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AC97 CODEC
&
AMPLIFIER
ALC655 PAGE 30

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USB

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Read
RICOH
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INT_PIRQE- P_AD22
INT_PIRQF-

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INT_PIRQG- P_AD19
INT_PIRQH- P_AD18

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SMART FAN

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SM Bus

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HISTORY

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RTC AND POWER CONTROL

SMBUS Table

1	SB P.21	Pull 3.3VAUX	SMB_DAT1 SMB_CLK1	For Clock , DDR , GbLan P.32 P.9 P.31	
2	KBC P.23	Pull ECVCC	SMB_DAT2 SMB_CLK2	For Battery P.36	For CPU_LM90 P.2
3	KBC P.23	Pull ECVCC	SMB_DAT3 SMB_CLK3	For VGA_LM90 P.12	
4	VGA P.12	Pull 3.3V	SMB_DAT4 SMB_CLK4	For SSIC P.19	
5	VGA P.12	Pull 3.3V	SMB_DAT5 SMB_CLK5	For Panel ID P.11	
6	VGA P.12	Pull 3.3V	SMB_DAT6 SMB_CLK6	For CRT P.11	

ICH-6 IRQ Table

ICH-6 P.21	P_REQ0- P_GNT0-	CARDREAD CARDBUS 1394 P.27~P.29
	P_REQ1- P_GNT1-	For Mini PCI I P.24
	P_REQ2- P_GNT2-	For Mini PCI II P.25

ICH-6 Interrupt Table

ICH-6 P.21	A	GbLAN	P.31
	B	CARD BUS	R5C841 P.28
	C	CARD READ	
	D	1394	
	E	MiniPCI I	P.24
	F		
	G	MiniPCI II	P.25
	H		

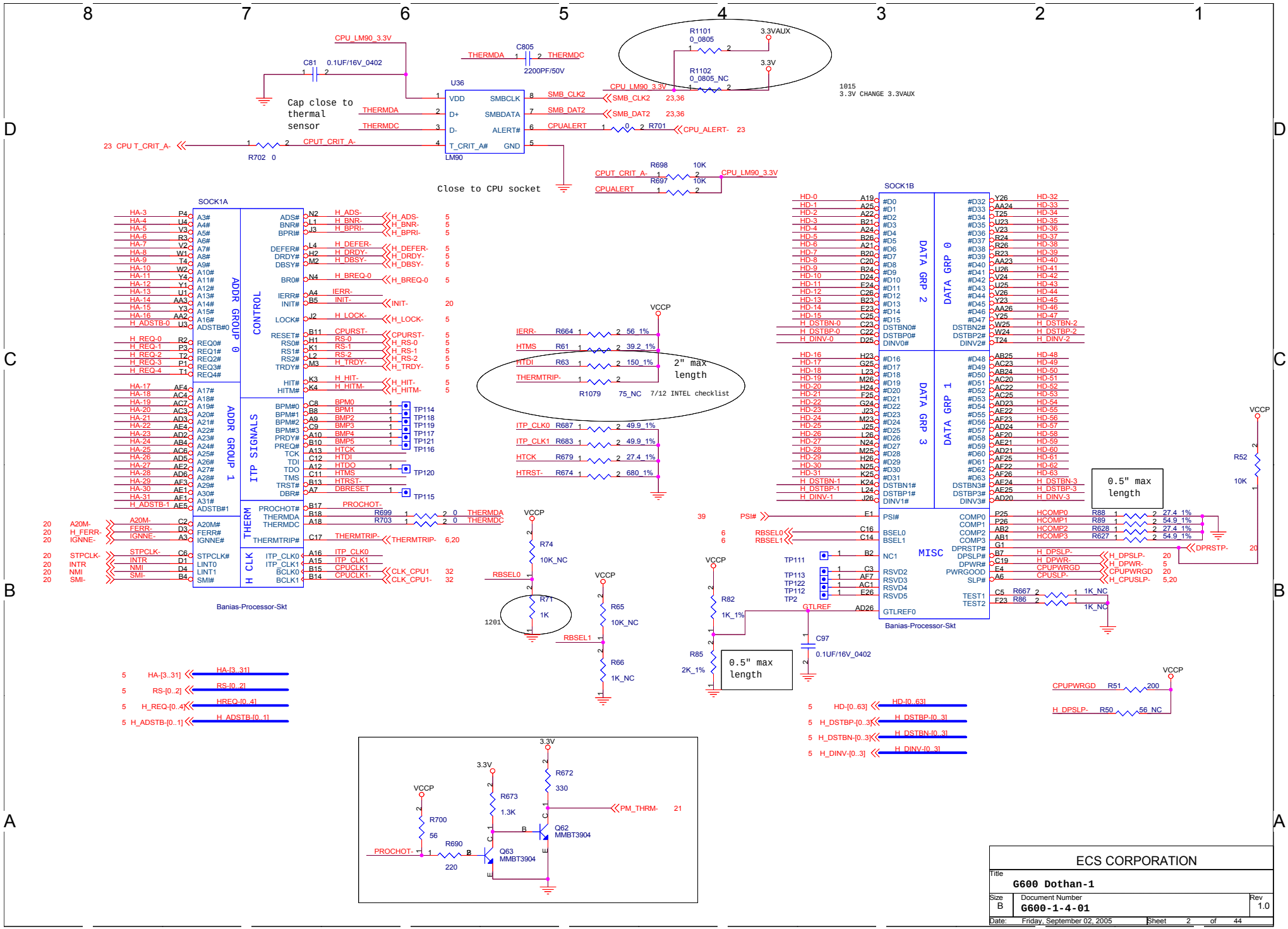
PAGE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
REV	1.D	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.D	1.0	1.D
DATE	9/2 2005	4/6 2005	4/6 2005	4/6 2005	4/6 2005	4/6 2005	4/6 2005	4/6 2005	4/6 2005	4/6 2005	4/27 2005	4/6 2005	4/6 2005	4/6 2005	4/6 2005	4/6 2005	4/6 2005	4/6 2005	4/6 2005	4/6 2005	9/2 2005	4/6 2005	9/2 2005

PAGE	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
REV	1.0	1.0	1.A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.D	1.0	1.0	1.B	1.B	1.B	1.0	1.0	1.D	1.0	1.D
DATE	4/6 2005	4/6 2005	4/27 2005	4/6 2005	4/6 2005	4/6 2005	4/6 2005	4/6 2005	4/6 2005	4/6 2005	9/2 2005	4/6 2005	4/6 2005	5/30 2005	5/30 2005	5/30 2005	4/6 2005	4/6 2005	9/2 2005	4/6 2005	9/2 2005

PCB 1.0 NO:15-F53-011000

Diễn Đàn
KyThuatViTinh.Com

Digitally signed by fdsf
DN: cn=fdsf, o=fsdfsd, ou=ffsdf, email=fdfsd@fsdff, c=US
Date: 2010.01.06 06:04:38 +07'00'


CPU_LM90_3.3V
C81 0.1UF/16V_0402
Cap close to thermal sensor
THERMDA
THERMDC
C805
2200PF/50V
U36
VDD
D+
D-
T_CRIT_A#
SMBCLK
SMBDATA
ALERT#
GND
LM90
SMB_CLK2
SMB_DAT2
CPUALERT
CPUT_CRIT_A-
R702 0
R1101 0_0805
R1102 0_0805_NC
3.3VAUX
3.3V
1015
3.3V CHANGE 3.3VAUX
Close to CPU socket
R698 10K
R697 10K
SOCK1A
ADDR GROUP 0
ADDR GROUP 1
CONTROL
ITP SIGNALS
THERM
H CLK
Banias-Processor-Skt
SOCK1B
DATA GRP 0
DATA GRP 1
DATA GRP 2
DATA GRP 3
MISC
Banias-Processor-Skt
IERR- R664 56_1%
HTMS R61 39.2_1%
HTDI R63 150_1%
THERMTRIP- R1079 75_NC
2" max length
7/12 INTEL checklist
ITP_CLK0 R687 49.9_1%
ITP_CLK1 R683 49.9_1%
HTCK R679 27.4_1%
HTRST- R674 680_1%
R74 10K_NC
R71 1K
1201
R65 10K_NC
R66 1K_NC
RBSEL0
RBSEL1
R82 1K_1%
R85 2K_1%
C97 0.1UF/16V_0402
0.5" max length
R52 10K
0.5" max length
R698 10K
R697 10K
R672 330
R673 1.3K
R700 56
R690 220
Q62 MMBT3904
Q63 MMBT3904
PM_THRM- 21
PROCHOT-
CPUPWRGD R51 200
H_DPSLP- R50 56_NC
ECS CORPORATION
Title
G600 Dothan-1
Size B
Document Number G600-1-4-01
Rev 1.0
Date: Friday, September 02, 2005
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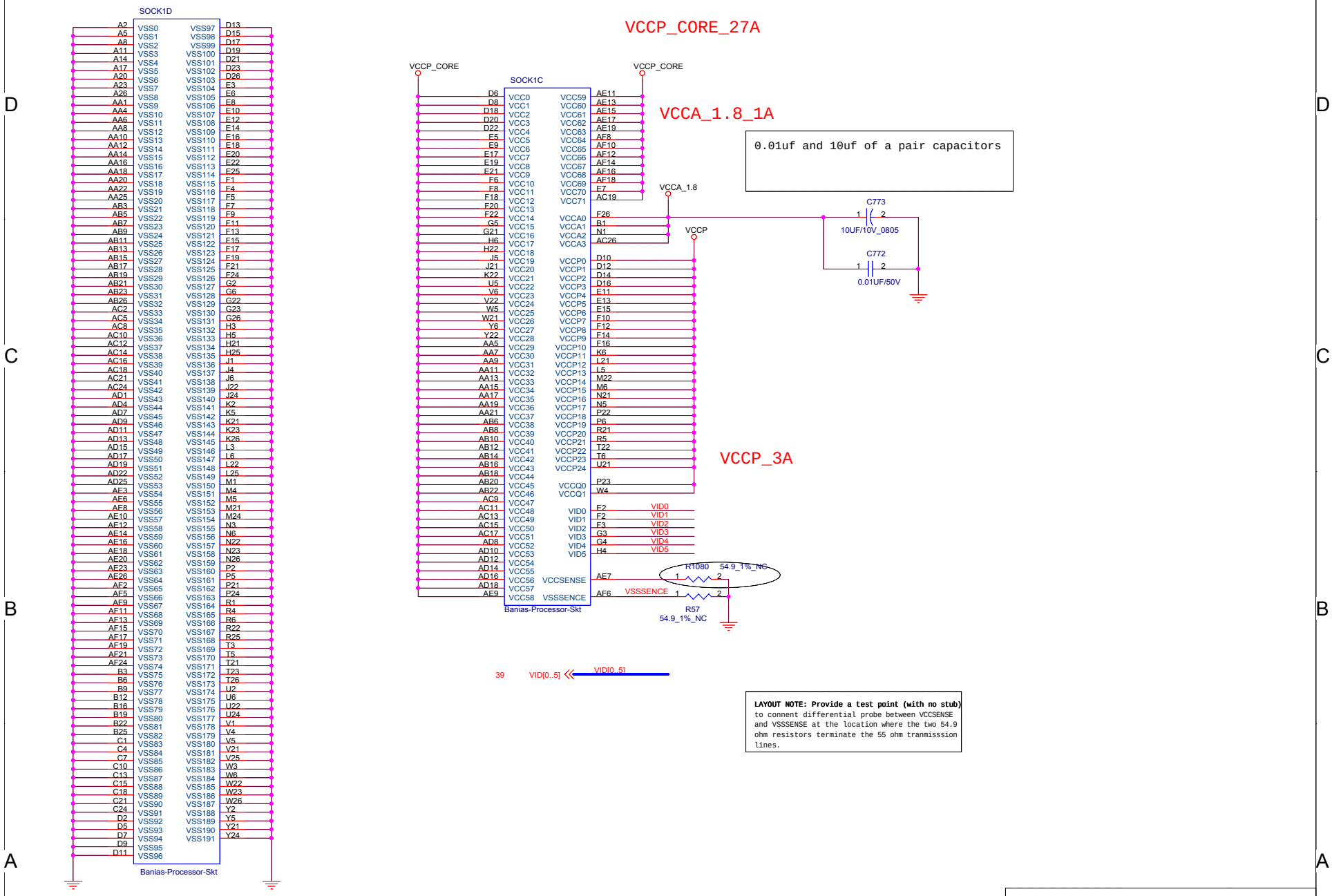
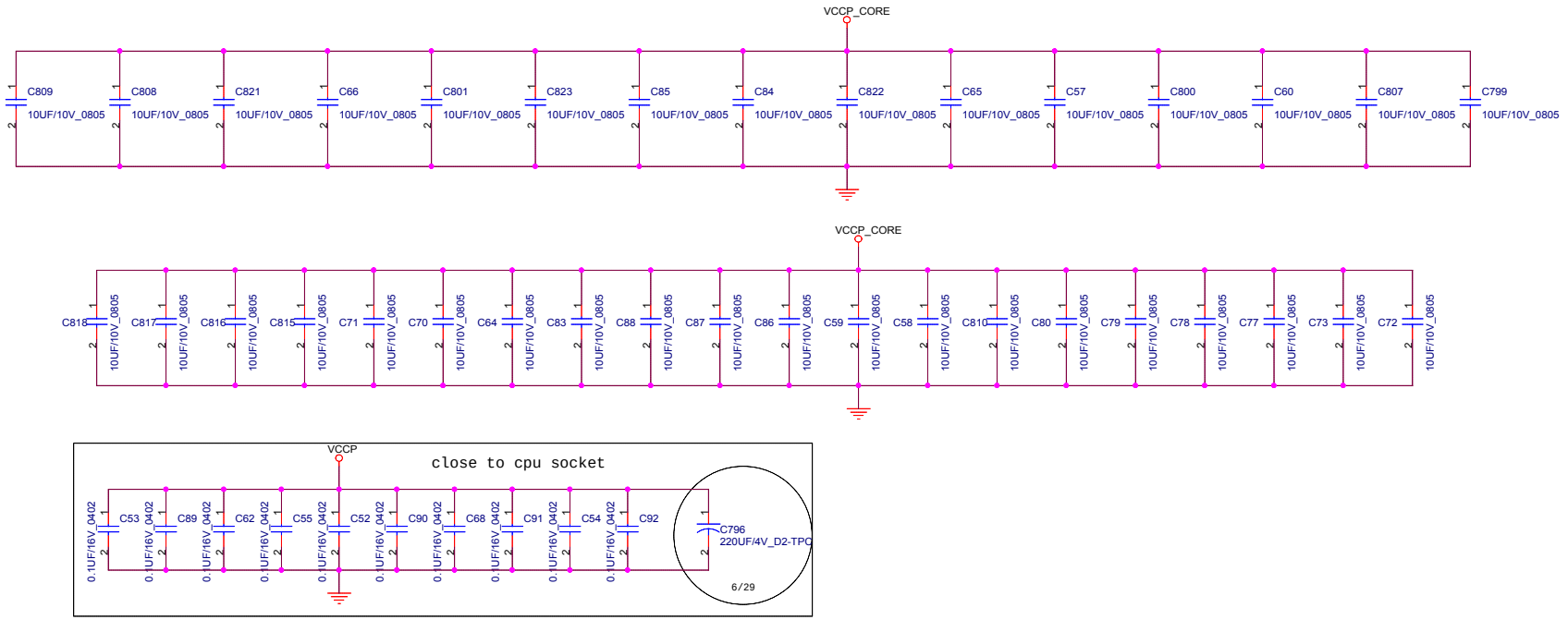
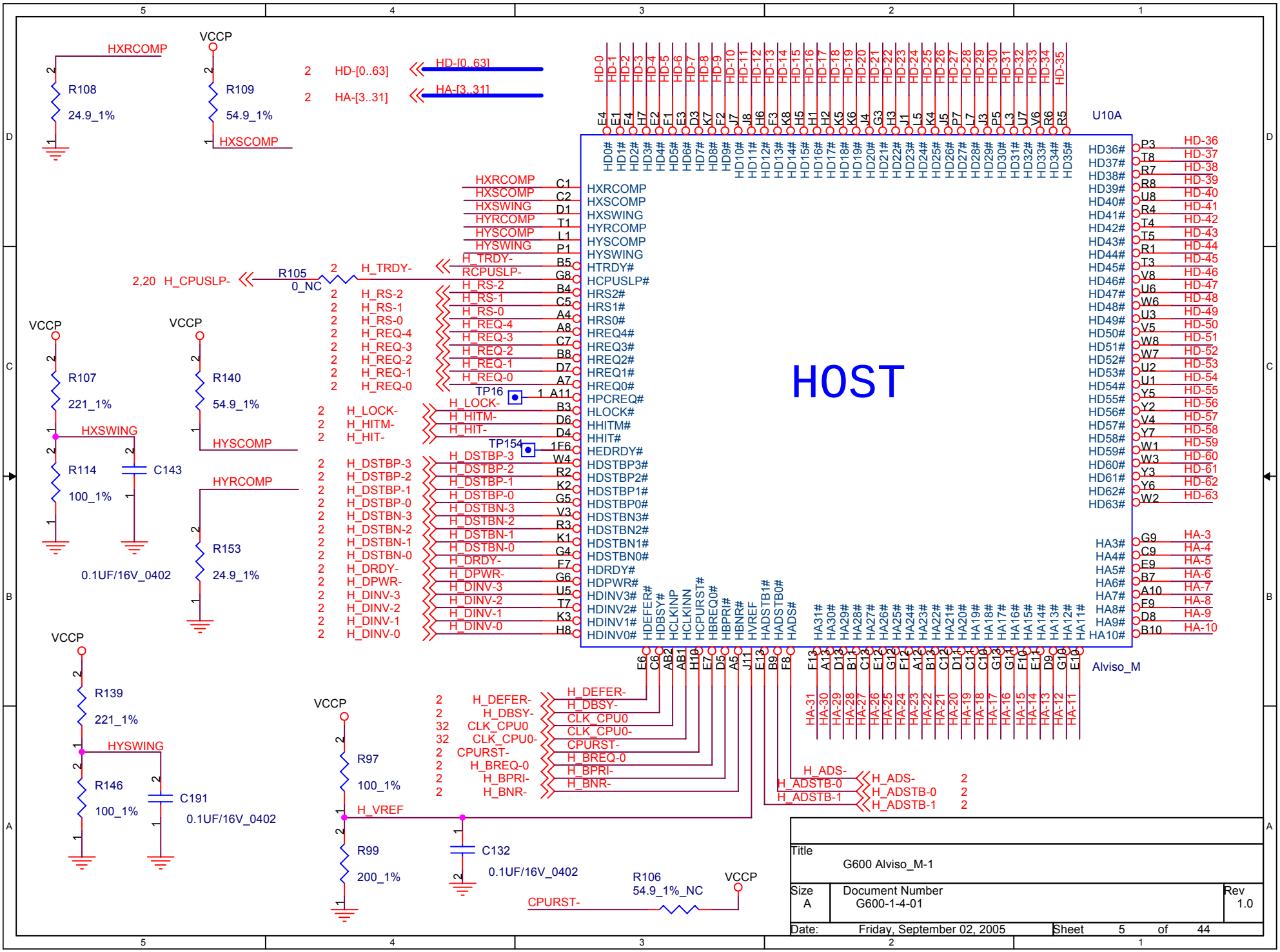


ECS CORPORATION	
Title	G600 Dothan-2
Size: B	Document Number: G600-1-4-01
Rev	1.0
Date: Friday, September 02, 2005	Sheet 3 of 44



ECS CORPORATION		
Title: G600 Dothan-3		
Size: B	Document Number: G600-1-4-01	Rev: 1.0
Date: Friday, September 02, 2005	Sheet 4 of 44	



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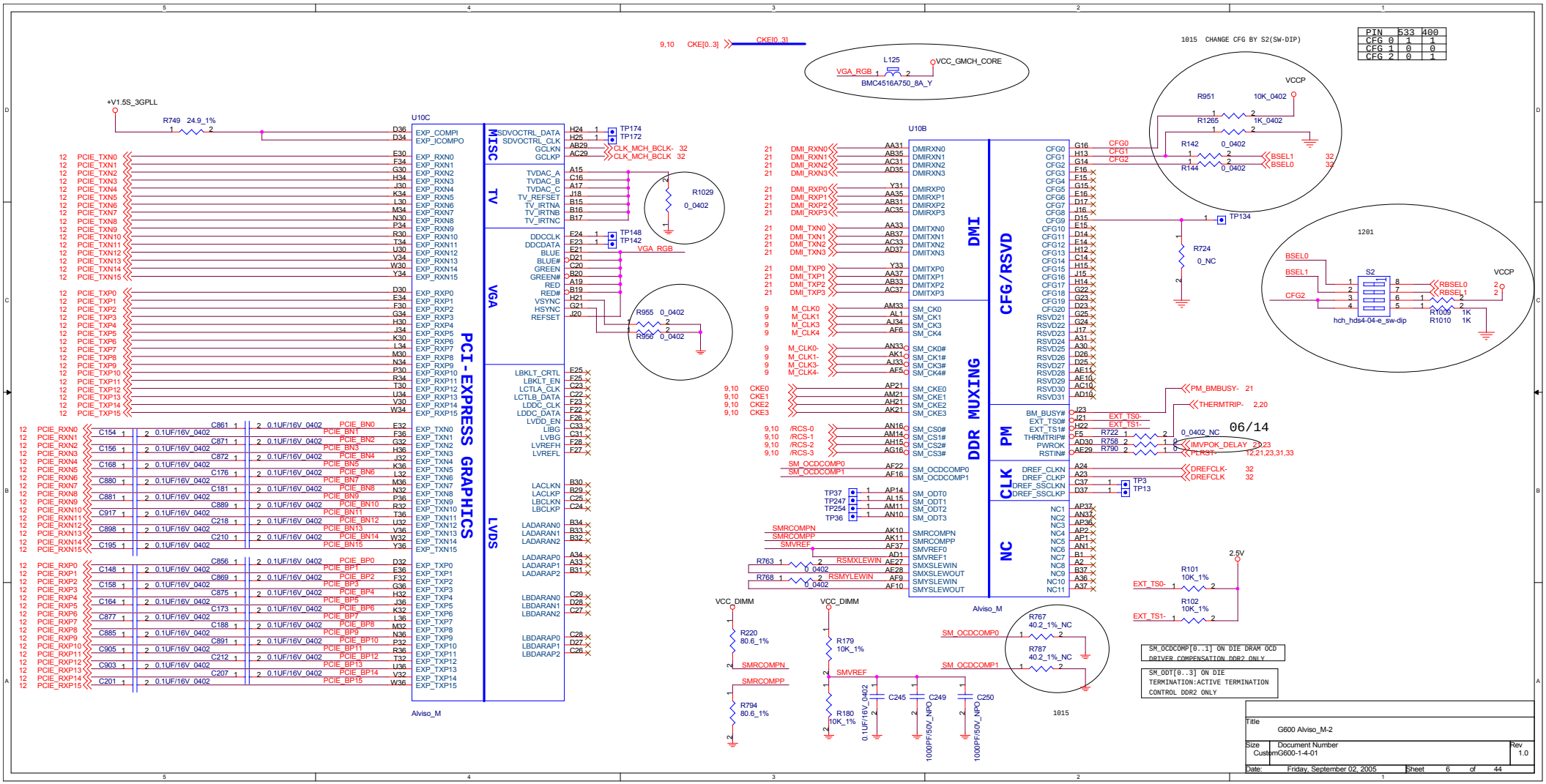
Size A	Document Number G600-1-4-01	Rev 1.0
Date: Friday, September 02, 2005	Sheet 5 of 44	


+V1.5S_3GPLL
R749 24.9_1%
U10C
PCI-EXPRESS GRAPHICS
EXP_COMPI
EXP_ICOMPO
PCIE_TXN0
PCIE_TXN1
PCIE_TXN2
PCIE_TXN3
PCIE_TXN4
PCIE_TXN5
PCIE_TXN6
PCIE_TXN7
PCIE_TXN8
PCIE_TXN9
PCIE_TXN10
PCIE_TXN11
PCIE_TXN12
PCIE_TXN13
PCIE_TXN14
PCIE_TXN15
PCIE_TXP0
PCIE_TXP1
PCIE_TXP2
PCIE_TXP3
PCIE_TXP4
PCIE_TXP5
PCIE_TXP6
PCIE_TXP7
PCIE_TXP8
PCIE_TXP9
PCIE_TXP10
PCIE_TXP11
PCIE_TXP12
PCIE_TXP13
PCIE_TXP14
PCIE_TXP15
C154 0.1UF/16V_0402
C156 0.1UF/16V_0402
C168 0.1UF/16V_0402
C880 0.1UF/16V_0402
C881 0.1UF/16V_0402
C889 0.1UF/16V_0402
C917 0.1UF/16V_0402
C898 0.1UF/16V_0402
C195 0.1UF/16V_0402
C148 0.1UF/16V_0402
C158 0.1UF/16V_0402
C164 0.1UF/16V_0402
C877 0.1UF/16V_0402
C885 0.1UF/16V_0402
C905 0.1UF/16V_0402
C903 0.1UF/16V_0402
C201 0.1UF/16V_0402
C861 0.1UF/16V_0402
C871 0.1UF/16V_0402
C872 0.1UF/16V_0402
C176 0.1UF/16V_0402
C181 0.1UF/16V_0402
C218 0.1UF/16V_0402
C210 0.1UF/16V_0402
C856 0.1UF/16V_0402
C869 0.1UF/16V_0402
C875 0.1UF/16V_0402
C173 0.1UF/16V_0402
C188 0.1UF/16V_0402
C891 0.1UF/16V_0402
C212 0.1UF/16V_0402
C207 0.1UF/16V_0402
Alviso_M
MISC
TV
VGA
LVDS
SDVOCTRL_DATA
SDVOCTRL_CLK
GCLKN
GCLKP
TVDAC_A
TVDAC_B
TVDAC_C
TV_REFSET
TV_IRTNA
TV_IRTNB
TV_IRTNC
DDCCLK
DDCDATA
BLUE
BLUE#
GREEN
GREEN#
RED
RED#
VSYNC
HSYNC
REFSET
LBKLT_CRTL
LBKLT_EN
LCTLA_CLK
LCTLB_DATA
LDDC_CLK
LDDC_DATA
LVDD_EN
LIBG
LVBG
LVREFH
LVREFL
LACLKN
LACLKP
LBCLKN
LBCLKP
LADARAN0
LADARAN1
LADARAN2
LADARAP0
LADARAP1
LADARAP2
LBDARAN0
LBDARAN1
LBDARAN2
LBDARAP0
LBDARAP1
LBDARAP2
TP174
TP172
CLK_MCH_BCLK-
CLK_MCH_BCLK
R1029 0_0402
TP148
TP142
VGA_RGB
R955 0_0402
R956 0_0402
9,10 CKE[0..3]
L125
VGA_RGB
VCC_GMCH_CORE
BMC4516A750_8A_Y
U10B
DMI
DDR MUXING
CFG/RSVD
PM
CLK
NC
DMIRXN0
DMIRXN1
DMIRXN2
DMIRXN3
DMIRXP0
DMIRXP1
DMIRXP2
DMIRXP3
DMITXN0
DMITXN1
DMITXN2
DMITXN3
DMITXP0
DMITXP1
DMITXP2
DMITXP3
SM_CK0
SM_CK1
SM_CK3
SM_CK4
SM_CK0#
SM_CK1#
SM_CK3#
SM_CK4#
SM_CKE0
SM_CKE1
SM_CKE2
SM_CKE3
SM_CS0#
SM_CS1#
SM_CS2#
SM_CS3#
SM_OCDCOMP0
SM_OCDCOMP1
SM_ODT0
SM_ODT1
SM_ODT2
SM_ODT3
SMRCOMPN
SMRCOMPP
SMVREF0
SMVREF1
SMXSLEWIN
SMXSLEWOUT
SMYSLEWIN
SMYSLEWOUT
CFG0
CFG1
CFG2
CFG3
CFG4
CFG5
CFG6
CFG7
CFG8
CFG9
CFG10
CFG11
CFG12
CFG13
CFG14
CFG15
CFG16
CFG17
CFG18
CFG19
CFG20
RSVD21
RSVD22
RSVD23
RSVD24
RSVD25
RSVD26
RSVD27
RSVD28
RSVD29
RSVD30
RSVD31
BM_BUSY#
EXT_TS0#
EXT_TS1#
THRMTRIP#
PWROK
RSTIN#
DREF_CLKN
DREF_CLKP
DREF_SSCLKN
DREF_SSCLKP
NC1
NC2
NC3
NC4
NC5
NC6
NC7
NC8
NC9
NC10
NC11
1015 CHANGE CFG BY S2(SW-DIP)
PIN 533 400
CFG 0 1 1
CFG 1 0 0
CFG 2 0 1
VCCP
R951 10K_0402
R1265 1K_0402
R142 0_0402
R144 0_0402
BSEL1
BSEL0
TP134
R724 0_NC
1201
S2
hch_hds4-04-e_sw-dip
RBSEL0
RBSEL1
R1009 1K
R1010 1K
PM_BMBUSY-
THERMTRIP-
06/14
0_0402_NC
IMVPOK_DELAY
PLRST-
DREFCLK-
DREFCLK
TP3
TP13
2.5V
R101 10K_1%
R102 10K_1%
EXT_TS0-
EXT_TS1-
SM_OCDCOMP[0..1] ON DIE DRAM OCD DRIVER COMPENSATION DDR2 ONLY
SM_ODT[0..3] ON DIE TERMINATION:ACTIVE TERMINATION CONTROL DDR2 ONLY
VCC_DIMM
R220 80.6_1%
R794 80.6_1%
R763 0_0402
R768 0_0402
RSMXLEWIN
RSMYLEWIN
R179 10K_1%
R180 10K_1%
SMVREF
C245 0.1UF/16V_0402
C249 1000PF/50V_NPO
C250 1000PF/50V_NPO
R767 40.2_1%_NC
R787 40.2_1%_NC
1015
Title
G600 Alviso_M-2
Size
Custom
Document Number
G600-1-4-01
Rev
1.0
Date: Friday, September 02, 2005
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/RMD[0..63] /RMD[0..63] 9,10 /RDQM[0..7] /RDQM[0..7] 9,10

/RDQS[0..7] /RDQS[0..7] 9,10

Resistors place close to DIMM

RP44 10_8P4R_0402: MD3 /RMD3, MD2 /RMD2, MD1 /RMD1, MD0 /RMD0
RP31 10_8P4R_0402: MD7 /RMD7, MD6 /RMD6, MD4 /RMD4, MD5 /RMD5
RP42 10_8P4R_0402: MD11 /RMD11, MD10 /RMD10, MD9 /RMD9, MD8 /RMD8
RP30 10_8P4R_0402: MD15 /RMD15, MD14 /RMD14, MD13 /RMD13, MD12 /RMD12
RP41 10_8P4R_0402: MD19 /RMD19, MD18 /RMD18, MD17 /RMD17, MD16 /RMD16
RP29 10_8P4R_0402: MD23 /RMD23, MD22 /RMD22, MD20 /RMD20, MD21 /RMD21
RP40 10_8P4R_0402: MD27 /RMD27, MD26 /RMD26, MD25 /RMD25, MD24 /RMD24
RP33 10_8P4R_0402: MD28 /RMD28, MD29 /RMD29, MD30 /RMD30, MD31 /RMD31
RP43 10_8P4R_0402: MD35 /RMD35, MD34 /RMD34, MD33 /RMD33, MD32 /RMD32
RP25 10_8P4R_0402: MD39 /RMD39, MD38 /RMD38, MD36 /RMD36, MD37 /RMD37
RP39 10_8P4R_0402: MD43 /RMD43, MD42 /RMD42, MD41 /RMD41, MD40 /RMD40
RP24 10_8P4R_0402: MD44 /RMD44, MD45 /RMD45, MD46 /RMD46, MD47 /RMD47
RP38 10_8P4R_0402: MD51 /RMD51, MD50 /RMD50, MD49 /RMD49, MD48 /RMD48
RP32 10_8P4R_0402: MD55 /RMD55, MD54 /RMD54, MD52 /RMD52, MD53 /RMD53
RP34 10_8P4R_0402: MD59 /RMD59, MD58 /RMD58, MD57 /RMD57, MD56 /RMD56
RP23 10_8P4R_0402: MD60 /RMD60, MD61 /RMD61, MD62 /RMD62, MD63 /RMD63

U10D

MD0 AG35, MD1 AH35, MD2 AL35, MD3 AL37, MD4 AH36, MD5 AJ35, MD6 AK37, MD7 AL34, MD8 AM36, MD9 AN35, MD10 AP32, MD11 AM31, MD12 AM34, MD13 AM35, MD14 AL32, MD15 AM32, MD16 AN31, MD17 AP31, MD18 AN28, MD19 AP28, MD20 AL30, MD21 AM30, MD22 AM28, MD23 AL28, MD24 AP27, MD25 AM27, MD26 AM23, MD27 AM22, MD28 AL23, MD29 AM24, MD30 AN22, MD31 AP22, MD32 AM9, MD33 AL9, MD34 AL6, MD35 AP7, MD36 AP11, MD37 AP10, MD38 AL7, MD39 AM7, MD40 AN5, MD41 AN6, MD42 AN3, MD43 AP3, MD44 AP6, MD45 AM6, MD46 AL4, MD47 AM3, MD48 AK2, MD49 AK3, MD50 AG2, MD51 AG1, MD52 AL3, MD53 AM2, MD54 AH3, MD55 AG3, MD56 AF3, MD57 AE3, MD58 AD6, MD59 AC4, MD60 AF2, MD61 AF1, MD62 AD4, MD63 AD5

DDR SYSTEM MEMORY A

SADQ0 SADQ1 SADQ2 SADQ3 SADQ4 SADQ5 SADQ6 SADQ7 SADQ8 SADQ9 SADQ10 SADQ11 SADQ12 SADQ13 SADQ14 SADQ15 SADQ16 SADQ17 SADQ18 SADQ19 SADQ20 SADQ21 SADQ22 SADQ23 SADQ24 SADQ25 SADQ26 SADQ27 SADQ28 SADQ29 SADQ30 SADQ31 SADQ32 SADQ33 SADQ34 SADQ35 SADQ36 SADQ37 SADQ38 SADQ39 SADQ40 SADQ41 SADQ42 SADQ43 SADQ44 SADQ45 SADQ46 SADQ47 SADQ48 SADQ49 SADQ50 SADQ51 SADQ52 SADQ53 SADQ54 SADQ55 SADQ56 SADQ57 SADQ58 SADQ59 SADQ60 SADQ61 SADQ62 SADQ63

SA_BS0# AK15 M_BS0 → M_BS0 9,10
SA_BS1# AK16 M_BS1 → M_BS1 9,10
SA_BS2# AL21 → TP256

SA_BS2# DDR2 ONLY

SA_DM0 AJ37 DQM0 R337 10_1%_0402 /RDQM0
SA_DM1 AP35 DQM1 R336 10_1%_0402 /RDQM1
SA_DM2 AL29 DQM2 R343 10_1%_0402 /RDQM2
SA_DM3 AP24 DQM3 R342 10_1%_0402 /RDQM3
SA_DM4 AP9 DQM4 R339 10_1%_0402 /RDQM4
SA_DM5 AP4 DQM5 R338 10_1%_0402 /RDQM5
SA_DM6 AJ2 DQM6 R335 10_1%_0402 /RDQM6
SA_DM7 AD3 DQM7 R334 10_1%_0402 /RDQM7

SA_DQS0 AK36 DQS0 R368 10_1%_0402 /RDQS0
SA_DQS1 AP33 DQS1 R369 10_1%_0402 /RDQS1
SA_DQS2 AN29 DQS2 R366 10_1%_0402 /RDQS2
SA_DQS3 AP23 DQS3 R367 10_1%_0402 /RDQS3
SA_DQS4 AM8 DQS4 R372 10_1%_0402 /RDQS4
SA_DQS5 AM4 DQS5 R370 10_1%_0402 /RDQS5
SA_DQS6 AJ1 DQS6 R371 10_1%_0402 /RDQS6
SA_DQS7 AE5 DQS7 R361 10_1%_0402 /RDQS7

SA_DQS0# AK35, SA_DQS1# AP34, SA_DQS2# AN30, SA_DQS3# AN23, SA_DQS4# AN8, SA_DQS5# AM5, SA_DQS6# AH1, SA_DQS7# AE4

SA_MA0 AL17 M_A0, SA_MA1 AP17 M_A1, SA_MA2 AP18 M_A2, SA_MA3 AM17 M_A3, SA_MA4 AN18 M_A4, SA_MA5 AM18 M_A5, SA_MA6 AL19 M_A6, SA_MA7 AP20 M_A7, SA_MA8 AM19 M_A8, SA_MA9 AL20 M_A9, SA_MA10 AM16 M_A10, SA_MA11 AN20 M_A11, SA_MA12 AM20 M_A12, SA_MA13 AM15 M_A13

M_A[0..13] → M_A[0..13] 9,10

SA_DQS#[0..7] DDR2 ONLY

SA_MA13 IS FOR SUPPORT OF 1-Gb DEVICES.

SA_CAS# AN15 M_CAS- → M_CAS- 9,10
SA_RAS# AP16 M_RAS- → M_RAS- 9,10
SARCVENIN# AF29 ASARCVENIN- R772 0_NC
SA_RCVENOUT# AF28
SA_WE# AP15 M_WE- → M_WE- 9,10

Alviso_M

U10E

SBDQ0 AE31, SBDQ1 AE32, SBDQ2 AG32, SBDQ3 AG36, SBDQ4 AE34, SBDQ5 AE33, SBDQ6 AE31, SBDQ7 AE30, SBDQ8 AH33, SBDQ9 AH32, SBDQ10 AK31, SBDQ11 AG30, SBDQ12 AG34, SBDQ13 AG33, SBDQ14 AH31, SBDQ15 AJ31, SBDQ16 AK30, SBDQ17 AJ30, SBDQ18 AH29, SBDQ19 AH28, SBDQ20 AK29, SBDQ21 AH30, SBDQ22 AH27, SBDQ23 AG28, SBDQ24 AF24, SBDQ25 AG23, SBDQ26 AJ22, SBDQ27 AK22, SBDQ28 AH24, SBDQ29 AH23, SBDQ30 AG22, SBDQ31 AJ21, SBDQ32 AG10, SBDQ33 AG9, SBDQ34 AG8, SBDQ35 AH8, SBDQ36 AH11, SBDQ37 AH10, SBDQ38 AJ9, SBDQ39 AK9, SBDQ40 AJ7, SBDQ41 AK6, SBDQ42 AJ4, SBDQ43 AH5, SBDQ44 AK8, SBDQ45 AJ8, SBDQ46 AJ5, SBDQ47 AK4, SBDQ48 AG5, SBDQ49 AG4, SBDQ50 AD8, SBDQ51 AD9, SBDQ52 AH4, SBDQ53 AG6, SBDQ54 AE8, SBDQ55 AD7, SBDQ56 AC5, SBDQ57 AB8, SBDQ58 AB6, SBDQ59 AA8, SBDQ60 AC8, SBDQ61 AC7, SBDQ62 AA4, SBDQ63 AA5

DDR SYSTEM MEMORY B

SB_BS0# AJ15 MB_BS0 → MB_BS0 9,10
SB_BS1# AG17 MB_BS1 → MB_BS1 9,10
SB_BS2# AG21 → TP211

SB_DM0 AE32, SB_DM1 AK34, SB_DM2 AK27, SB_DM3 AK24, SB_DM4 AJ10, SB_DM5 AK5, SB_DM6 AE7, SB_DM7 AB7

SB_DQS0 AE34, SB_DQS1 AK32, SB_DQS2 AJ28, SB_DQS3 AK23, SB_DQS4 AM10, SB_DQS5 AH6, SB_DQS6 AF8, SB_DQS7 AB4

SB_DQS0# AE35, SB_DQS1# AK33, SB_DQS2# AK28, SB_DQS3# AJ23, SB_DQS4# AL10, SB_DQS5# AH7, SB_DQS6# AE7, SB_DQS7# AB5

0420C

SB_MA0 AH17 M_B0, SB_MA1 AK17 M_B1, SB_MA2 AH18 M_B2, SB_MA3 AJ18 M_B3, SB_MA4 AK18 M_B4, SB_MA5 AJ19 M_B5, SB_MA6 AK19 M_B6, SB_MA7 AH19 M_B7, SB_MA8 AJ20 M_B8, SB_MA9 AH20 M_B9, SB_MA10 AJ16 M_B10, SA_MA11 AG18 M_B11, SB_MA12 AG20 M_B12, SB_MA13 AG15 M_B13

M_B[0..13] 9,10

SB_CAS# AH14 MB_CAS- → MB_CAS- 9,10
SB_RAS# AK14 MB_RAS- → MB_RAS- 9,10
SBRCVENIN# AF15 BSARCVENIN- R766 0_NC
SB_RCVENOUT# AF14
SB_WE# AH16 MB_WE- → MB_WE- 9,10

Alviso_M

Title	G600 Alviso_M-3	
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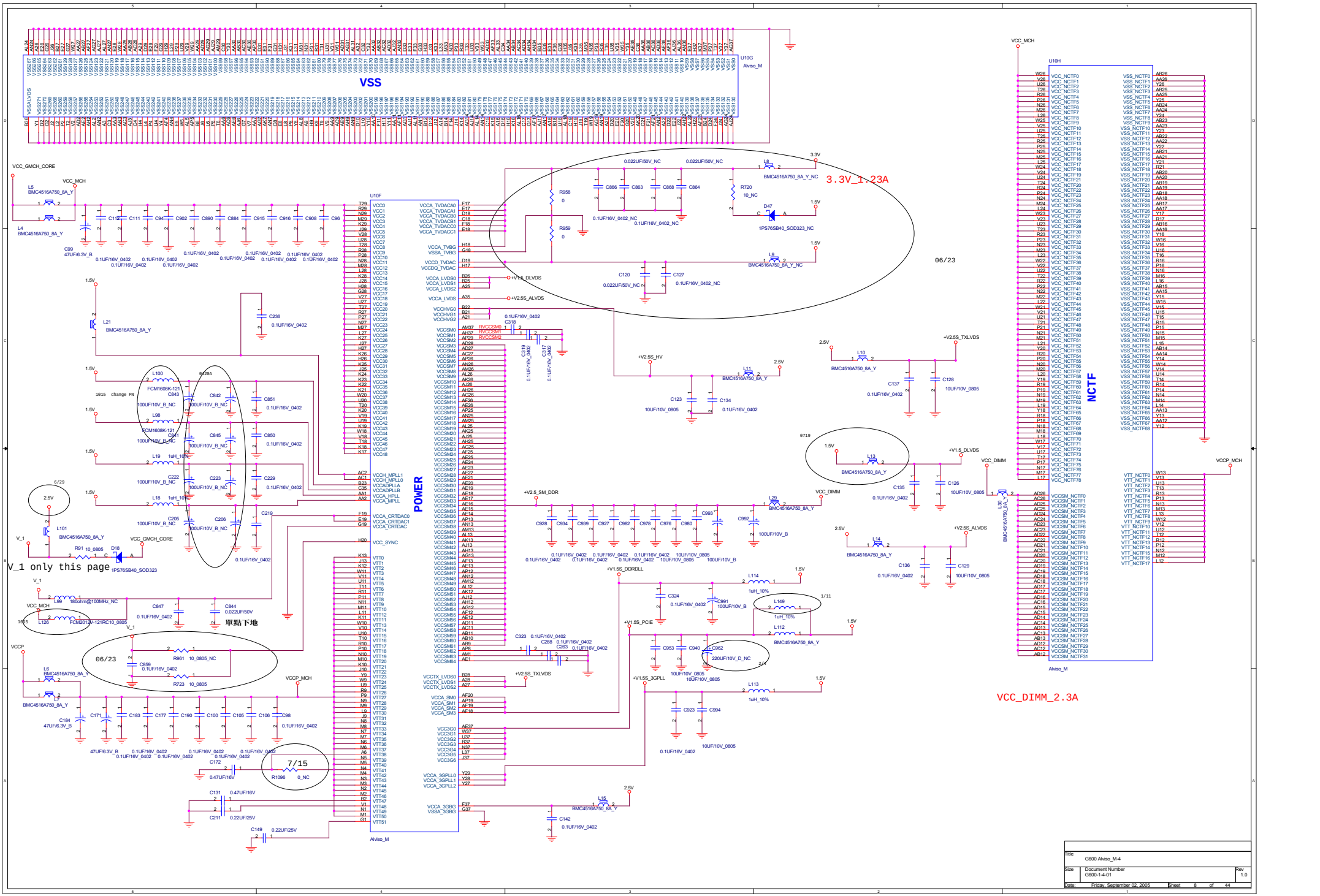
VSS
U10G
Alviso_M
U10F
POWER
U10H
NCTF
3.3V_1.23A
06/23
VCC_DIMM_2.3A
V_1 only this page
單點下地
1015 change PN
7/15
Title
G600 Alviso_M-4
Size
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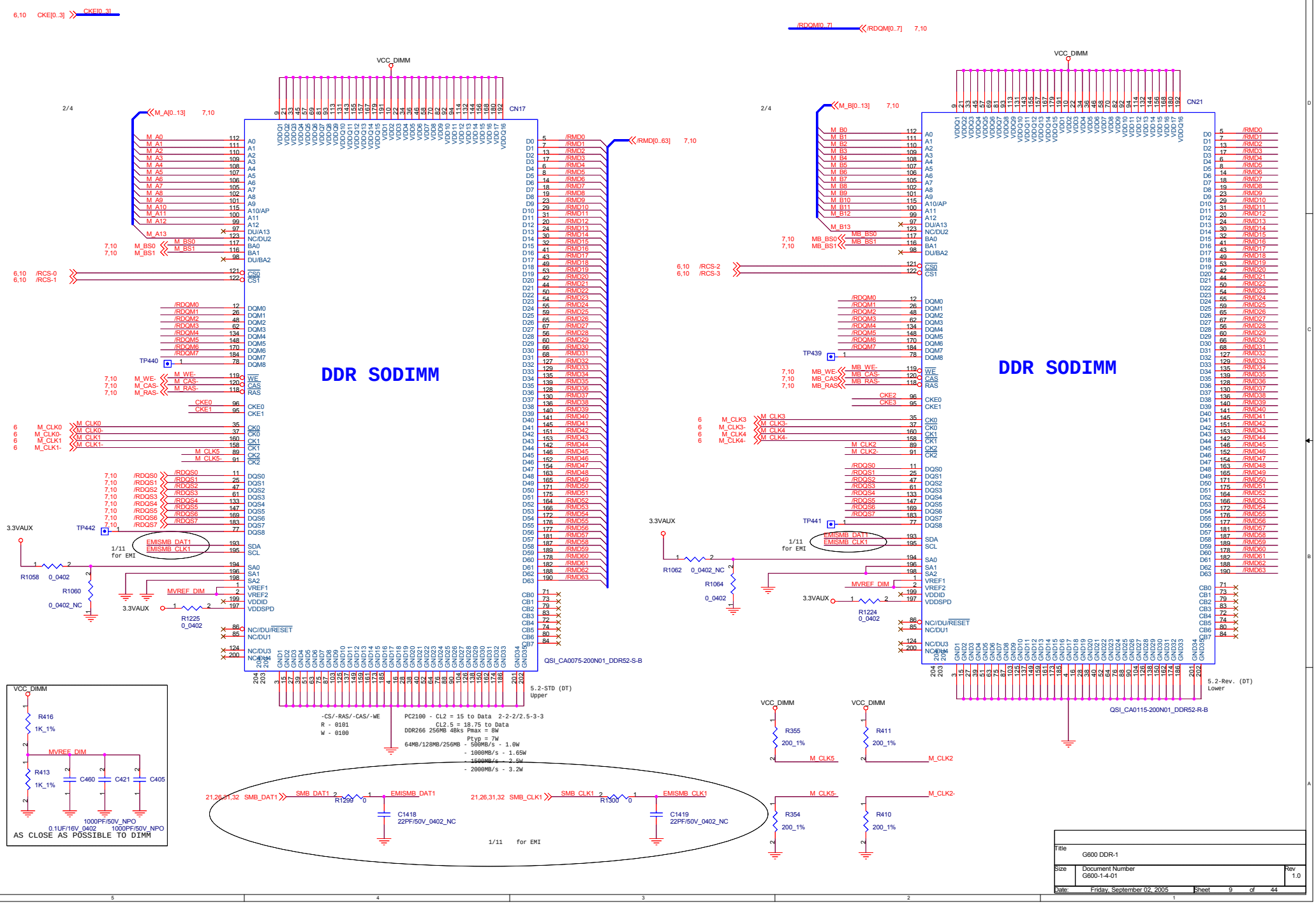
DDR SODIMM
DDR SODIMM
VCC_DIMM
VCC_DIMM
CN17
CN21
2/4
2/4
M_A[0..13]
M_B[0..13]
/RDQM[0..7]
/RMD[0..63]
CKE[0..3]
/RCS-0
/RCS-1
/RCS-2
/RCS-3
M_BS0
M_BS1
MB_BS0
MB_BS1
M_WE-
M_CAS-
M_RAS-
MB_WE-
MB_CAS-
MB_RAS-
M_CLK0
M_CLK0-
M_CLK1
M_CLK1-
M_CLK3
M_CLK3-
M_CLK4
M_CLK4-
M_CLK5
M_CLK5-
M_CLK2
M_CLK2-
/RDQS0
/RDQS1
/RDQS2
/RDQS3
/RDQS4
/RDQS5
/RDQS6
/RDQS7
MVREF_DIM
EMISMB_DAT1
EMISMB_CLK1
SMB_DAT1
SMB_CLK1
3.3VAUX
TP440
TP442
TP439
TP441
R1058 0_0402
R1060 0_0402_NC
R1225 0_0402
R1062 0_0402_NC
R1064 0_0402
R1224 0_0402
R1299 0
R1300 0
C1418 22PF/50V_0402_NC
C1419 22PF/50V_0402_NC
R355 200_1%
R354 200_1%
R411 200_1%
R410 200_1%
R416 1K_1%
R413 1K_1%
C460
C421
C405
1000PF/50V_NPO
0.1UF/16V_0402
1000PF/50V_NPO
AS CLOSE AS POSSIBLE TO DIMM
1/11 for EMI
5.2-STD (DT) Upper
5.2-Rev. (DT) Lower
-CS/-RAS/-CAS/-WE
R - 0101
W - 0100
PC2100 - CL2 = 15 to Data 2-2-2/2.5-3-3
CL2.5 = 18.75 to Data
DDR266 256MB 4Bks Pmax = 8W
Ptyp = 7W
64MB/128MB/256MB - 500MB/s - 1.0W
- 1000MB/s - 1.65W
- 1500MB/s - 2.5W
- 2000MB/s - 3.2W
QSI_CA0075-200N01_DDR52-S-B
QSI_CA0115-200N01_DDR52-R-B
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G600 DDR-1
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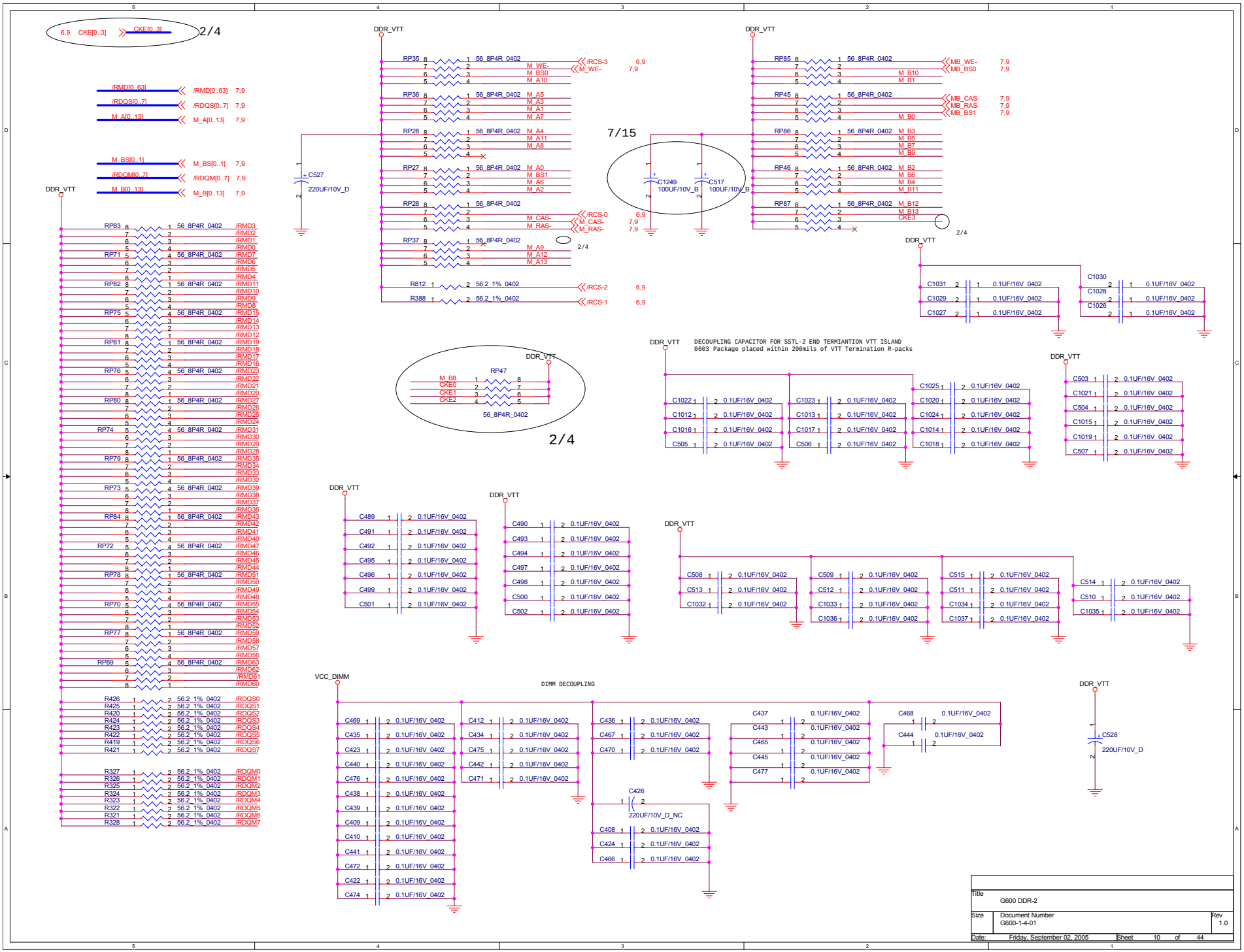
6,9 CKE[0..3]
CKE[0..3]
2/4
/RMD[0..63]
/RDQS[0..7]
M_A[0..13]
/RMD[0..63] 7,9
/RDQS[0..7] 7,9
M_A[0..13] 7,9
M_BS[0..1]
/RDQM[0..7]
M_B[0..13]
M_BS[0..1] 7,9
/RDQM[0..7] 7,9
M_B[0..13] 7,9
DDR_VTT
RP83 RP71 RP82 RP75 RP81 RP76 RP80 RP74 RP79 RP73 RP84 RP72 RP78 RP70 RP77 RP69
56_8P4R_0402
/RMD3 /RMD2 /RMD1 /RMD0 /RMD7 /RMD6 /RMD5 /RMD4 /RMD11 /RMD10 /RMD9 /RMD8 /RMD15 /RMD14 /RMD13 /RMD12 /RMD19 /RMD18 /RMD17 /RMD16 /RMD23 /RMD22 /RMD21 /RMD20 /RMD27 /RMD26 /RMD25 /RMD24 /RMD31 /RMD30 /RMD29 /RMD28 /RMD35 /RMD34 /RMD33 /RMD32 /RMD39 /RMD38 /RMD37 /RMD36 /RMD43 /RMD42 /RMD41 /RMD40 /RMD47 /RMD46 /RMD45 /RMD44 /RMD51 /RMD50 /RMD49 /RMD48 /RMD55 /RMD54 /RMD53 /RMD52 /RMD59 /RMD58 /RMD57 /RMD56 /RMD63 /RMD62 /RMD61 /RMD60
R426 R425 R420 R424 R423 R422 R419 R421
56.2_1%_0402
/RDQS0 /RDQS1 /RDQS2 /RDQS3 /RDQS4 /RDQS5 /RDQS6 /RDQS7
R327 R326 R325 R324 R323 R322 R321 R328
/RDQM0 /RDQM1 /RDQM2 /RDQM3 /RDQM4 /RDQM5 /RDQM6 /RDQM7
DDR_VTT
RP35 RP36 RP28 RP27 RP26 RP37
56_8P4R_0402
M_WE- M_BS0 M_A10 M_A5 M_A3 M_A1 M_A7 M_A4 M_A11 M_A8 M_A0 M_BS1 M_A6 M_A2 M_CAS- M_RAS- M_A9 M_A12 M_A13
/RCS-3 6,9
M_WE- 7,9
M_CAS- 7,9
M_RAS- 7,9
/RCS-0 6,9
2/4
R812 R388
56.2_1%_0402
/RCS-2 6,9
/RCS-1 6,9
C527
220UF/10V_D
7/15
C1249 C517
100UF/10V_B
DDR_VTT
RP85 RP45 RP86 RP46 RP87
56_8P4R_0402
MB_WE- 7,9
MB_BS0 7,9
MB_CAS- 7,9
MB_RAS- 7,9
MB_BS1 7,9
M_B10 M_B1 M_B0 M_B3 M_B5 M_B7 M_B9 M_B2 M_B6 M_B4 M_B11 M_B12 M_B13 CKE3
2/4
DDR_VTT
C1031 C1029 C1027 C1030 C1028 C1026
0.1UF/16V_0402
DDR_VTT
RP47
M_B8 CKE0 CKE1 CKE2
56_8P4R_0402
2/4
DDR_VTT
DECOUPLING CAPACITOR FOR SSTL-2 END TERMIANTION VTT ISLAND
0603 Package placed within 200mils of VTT Termination R-packs
C1022 C1012 C1016 C505 C1023 C1013 C1017 C506 C1025 C1020 C1024 C1014 C1018
0.1UF/16V_0402
DDR_VTT
C503 C1021 C504 C1015 C1019 C507
0.1UF/16V_0402
DDR_VTT
C489 C491 C492 C495 C496 C499 C501
DDR_VTT
C490 C493 C494 C497 C498 C500 C502
0.1UF/16V_0402
DDR_VTT
C508 C513 C1032 C509 C512 C1033 C1036 C515 C511 C1034 C1037 C514 C510 C1035
0.1UF/16V_0402
VCC_DIMM
DIMM DECOUPLING
C469 C435 C423 C440 C476 C438 C439 C409 C410 C441 C472 C422 C474
C412 C434 C475 C442 C471
C436 C467 C470
C426
220UF/10V_D_NC
C408 C424 C466
C437 C443 C465 C445 C477
C468 C444
0.1UF/16V_0402
DDR_VTT
C528
220UF/10V_D
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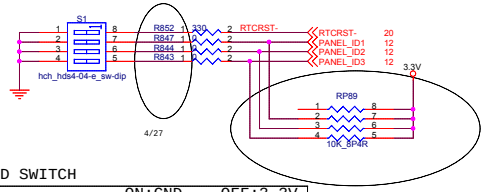
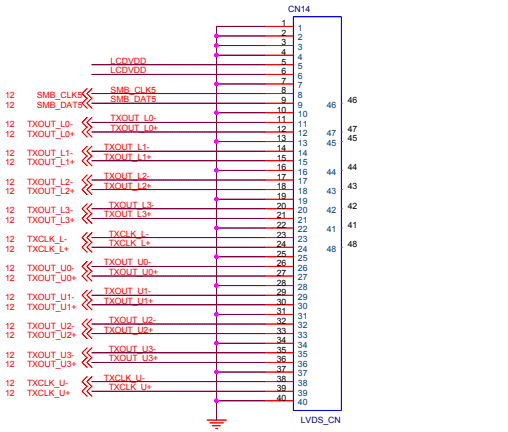
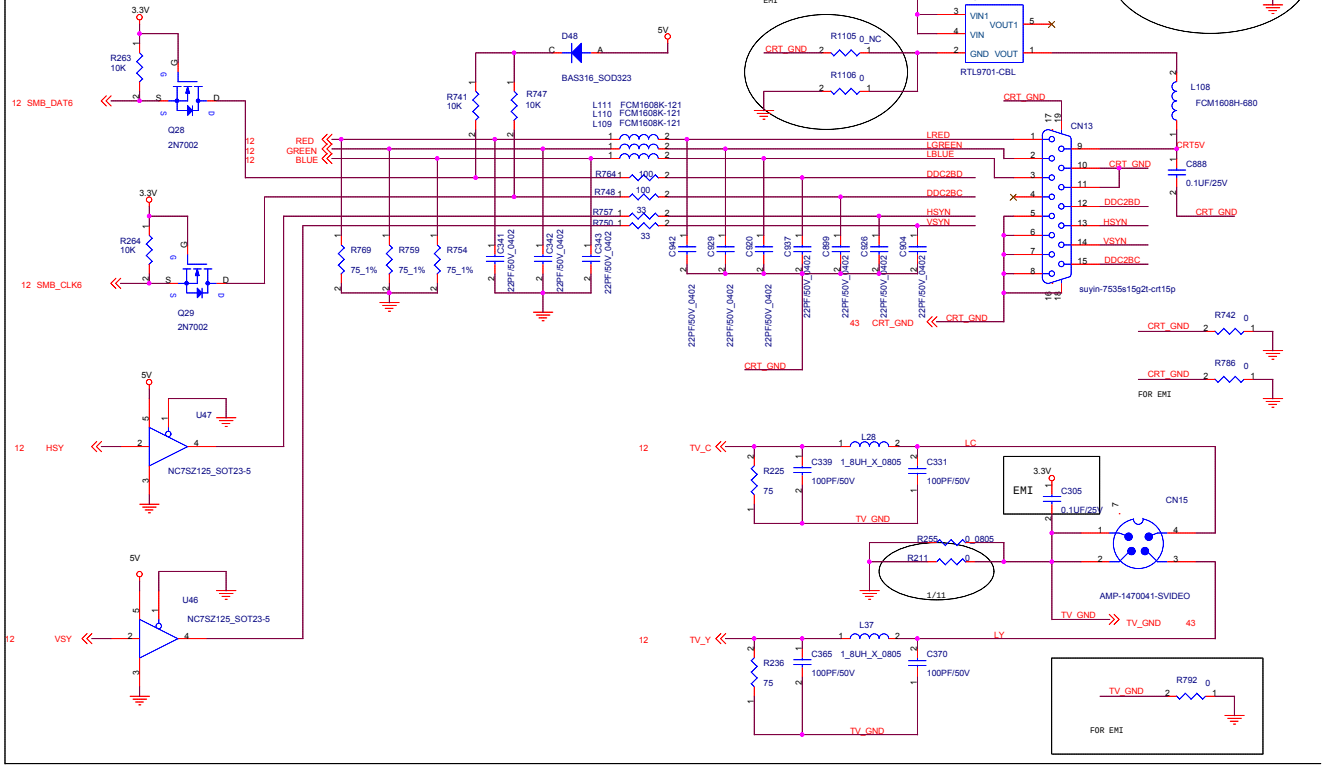
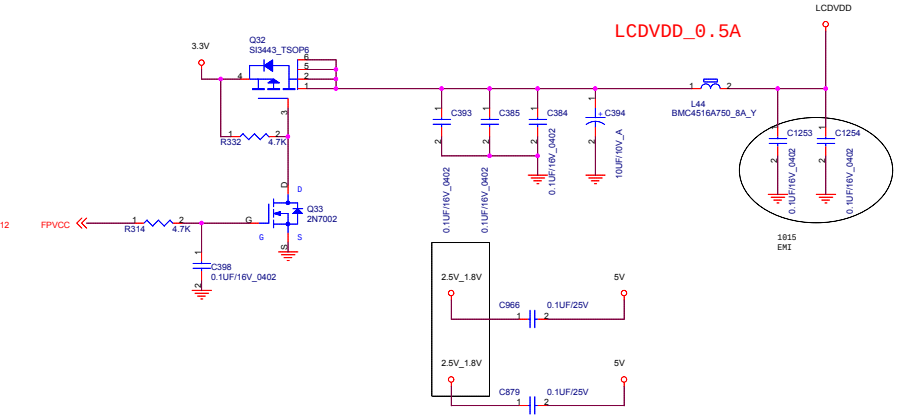


PANEL ID SWITCH

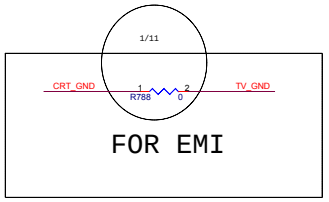
			ON:GND	OFF:3.3V
	ID1	ID2	ID3	PANEL TYPE 1280*800
0	ON	ON	ON	
1	OFF	ON	ON	
2	ON	OFF	ON	AU
3	OFF	OFF	ON	CPT
4	ON	ON	OFF	
5	OFF	ON	OFF	
6	ON	OFF	OFF	
7	OFF	OFF	OFF	Default,LG,TORISAN







7/13 FOR M26 1.8V



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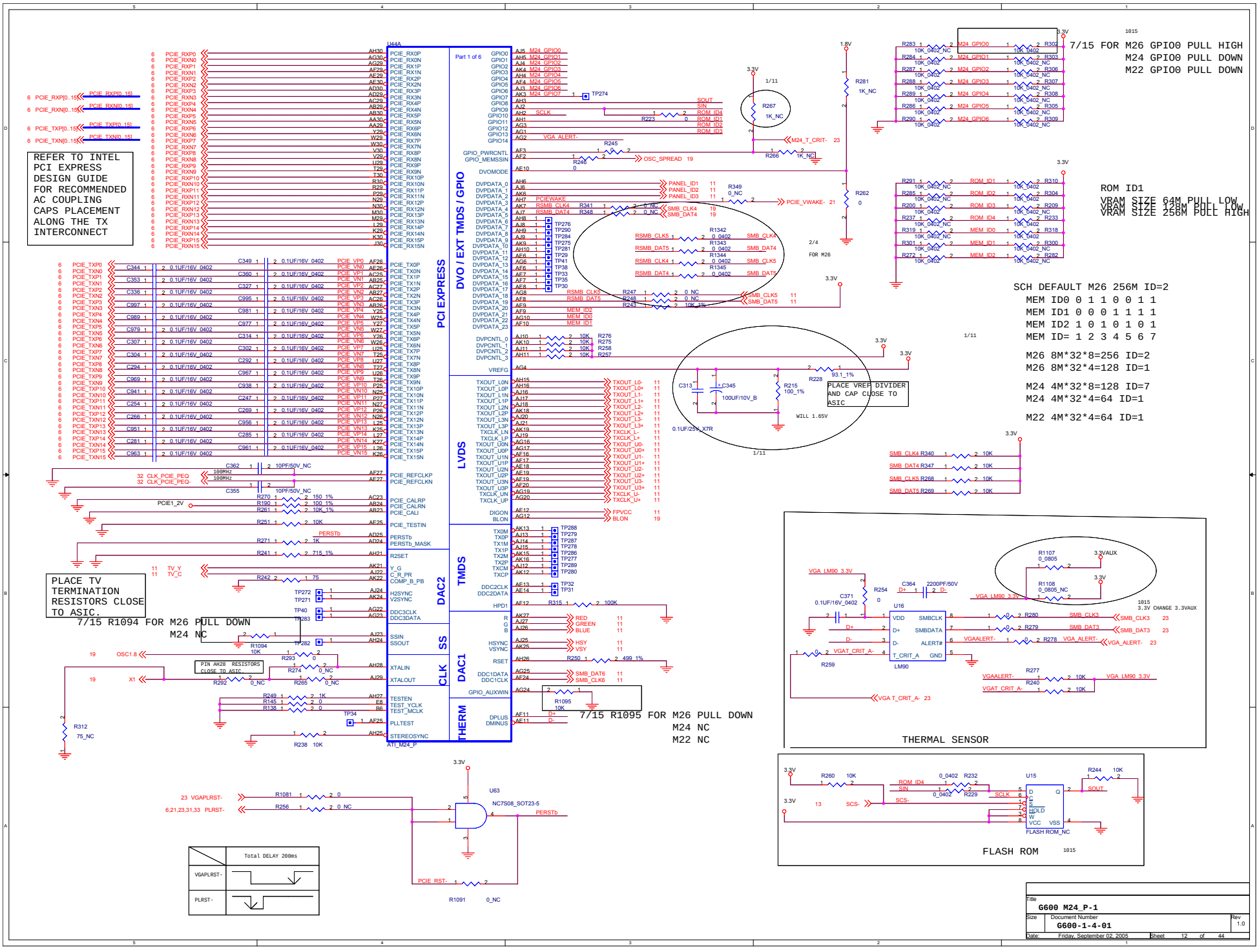
REFER TO INTEL PCI EXPRESS DESIGN GUIDE FOR RECOMMENDED AC COUPLING CAPS PLACEMENT ALONG THE TX INTERCONNECT
PCI EXPRESS
DVO / EXT TMDS / GPIO
LVDS
TMDS
DAC2
DAC1
SS
CLK
THERM
PLACE TV TERMINATION RESISTORS CLOSE TO ASIC.
7/15 R1094 FOR M26 PULL DOWN
M24 NC
7/15 R1095 FOR M26 PULL DOWN
M24 NC
M22 NC
7/15 FOR M26 GPIO0 PULL HIGH
M24 GPIO0 PULL DOWN
M22 GPIO0 PULL DOWN
ROM ID1
VRAM SIZE 64M PULL LOW
VRAM SIZE 128M PULL LOW
VRAM SIZE 256M PULL HIGH
SCH DEFAULT M26 256M ID=2
MEM ID0 0 1 1 0 0 1 1
MEM ID1 0 0 0 1 1 1 1
MEM ID2 1 0 1 0 1 0 1
MEM ID= 1 2 3 4 5 6 7
M26 8M*32*8=256 ID=2
M26 8M*32*4=128 ID=1
M24 4M*32*8=128 ID=7
M24 4M*32*4=64 ID=1
M22 4M*32*4=64 ID=1
PLACE VREF DIVIDER AND CAP CLOSE TO ASIC
THERMAL SENSOR
FLASH ROM
Total DELAY 200ms
VGAPLRST-
PLRST-
Title
G600 M24_P-1
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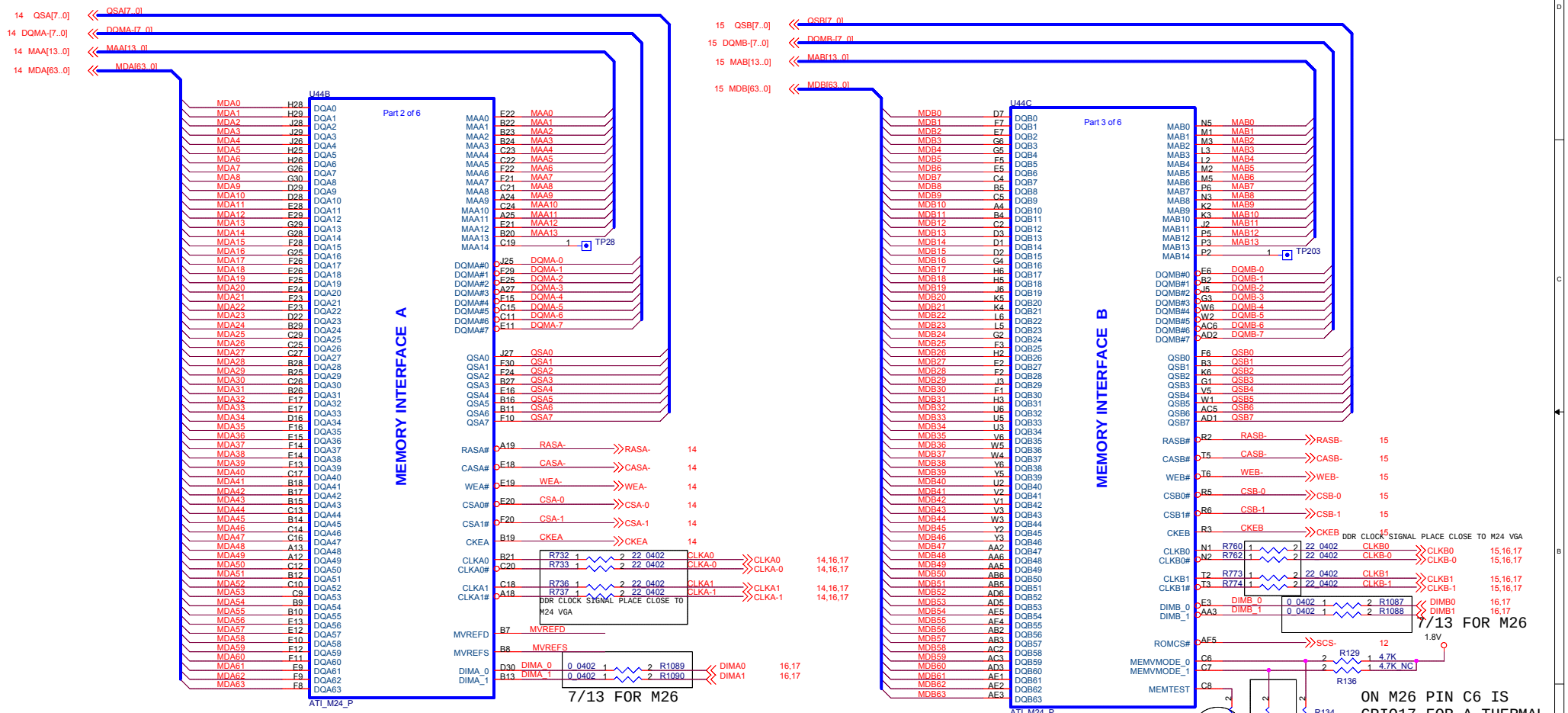

	NET NAME	VOLTAGE
M24	2.5V_1.8V	2.5V
M26	2.5V_1.8V	1.8V

M24		
VDDR1	MEMVMODE_0	MEMVMODE_1
1.8V	0	1
2.5V	1	0
2.8V	1	1

Title	G600 M24_P-2	
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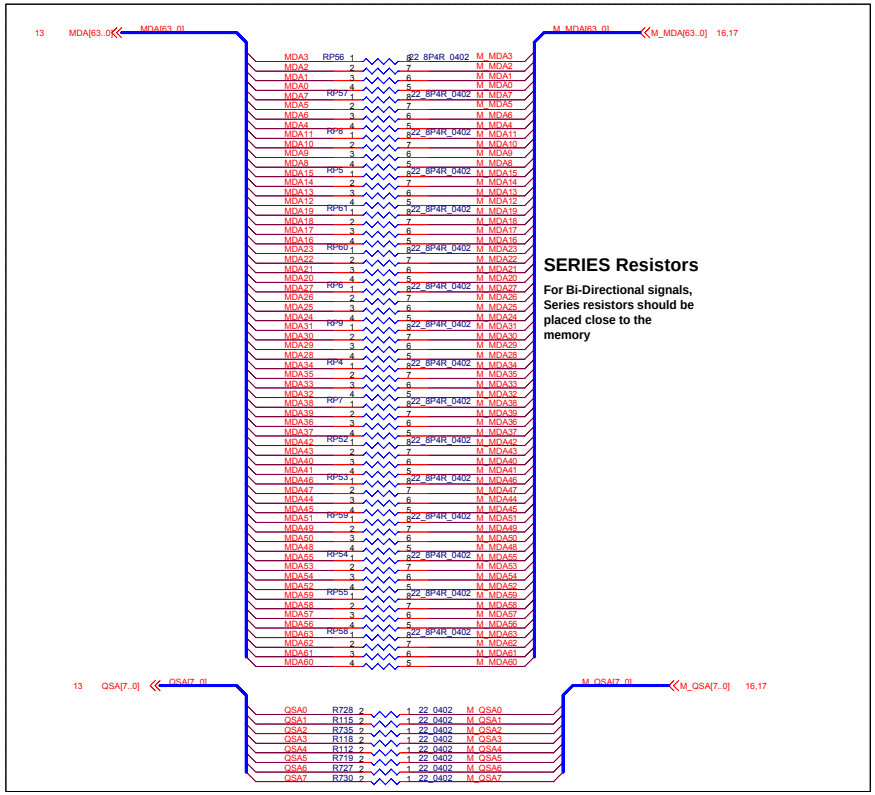
TERMINATION FOR MEMORY CHANNEL A

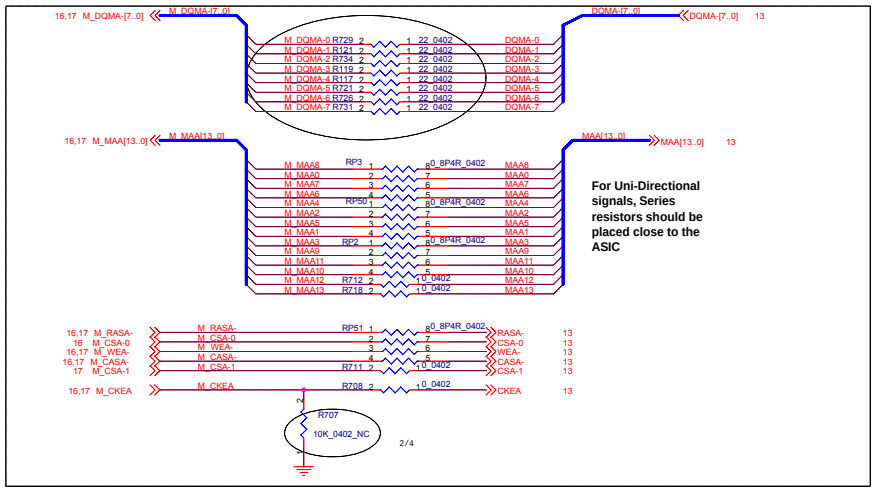
PARALLEL TERMINATION RESISTORS AND DECOUPLING

SSTL_2 CLASS I

PLACE AT NETS MID POINT

PARALLEL TERMINATION COULD BE OMITTED UNDER SOME CIRCUMSTANCE. PLEASE CONSULT WITH ATI FOR DETAIL.

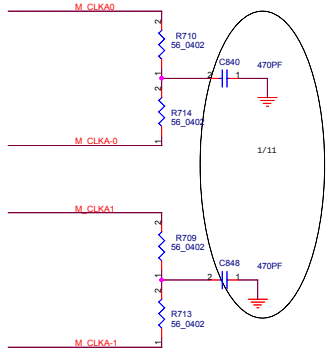


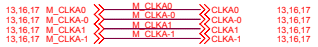


CLOCK terminations

Change from 1:1 spacing to at least a 2.5:1 spacing between the pair

These resistors and caps must be placed to minimize any stubs. These must also be placed after the memory





Title	G600 M24_P-3
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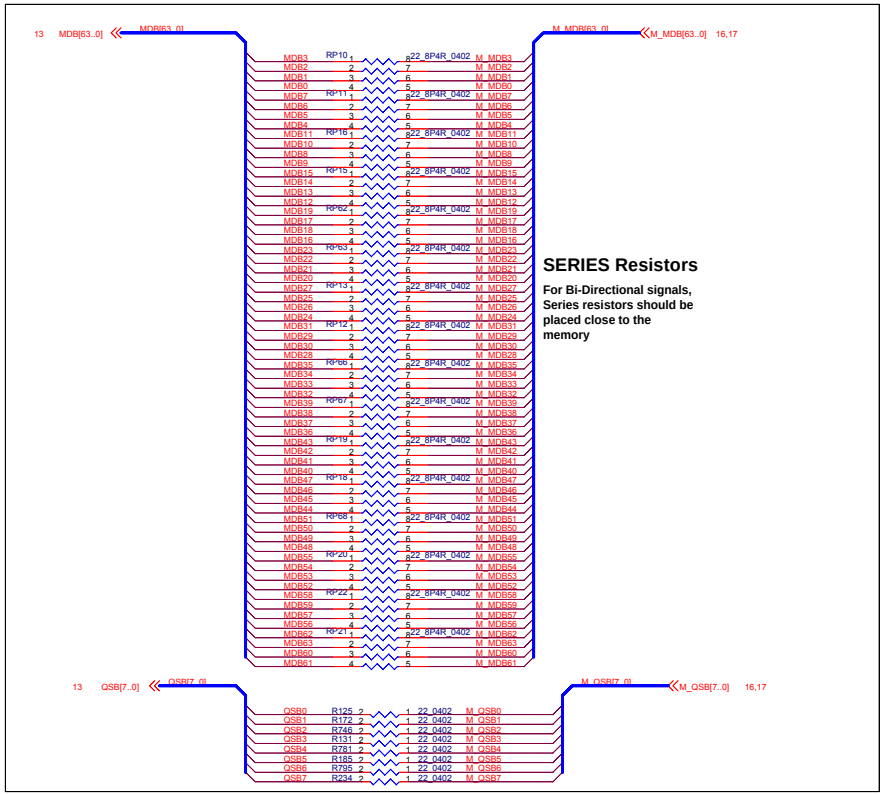
TERMINATION FOR MEMORY CHANNEL B

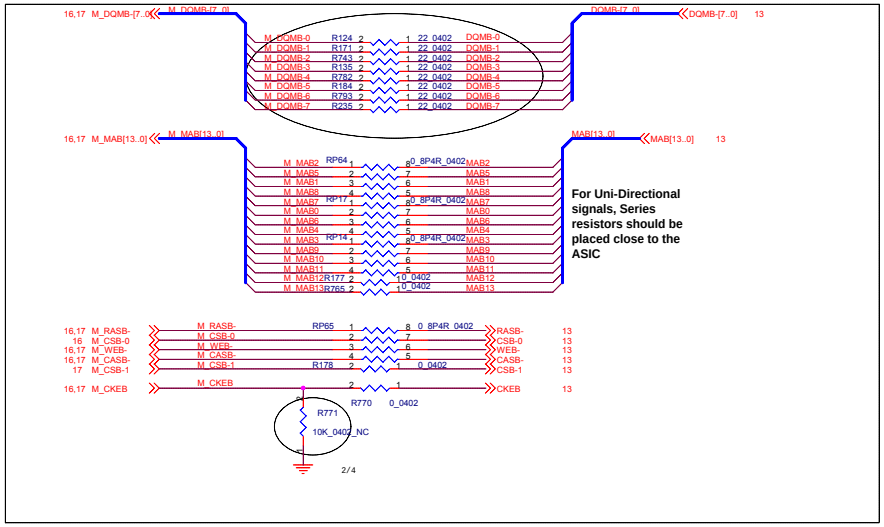
PARALLEL TERMINATION RESISTORS AND DECOUPLING

SSTL_2 CLASS I

PLACE AT NETS MID POINT

PARALLEL TERMINATION COULD BE OMITTED UNDER SOME CIRCUMSTANCE. PLEASE CONSULT WITH ATI FOR DETAIL.

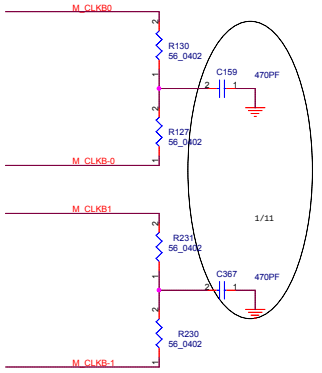


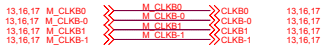


CLOCK terminations

Change from 1:1 spacing to at least a 2.5:1 spacing between the pair

These resistors and caps must be placed to minimize any stubs. These must also be placed after the memory





Title	G600 M24_P-4	
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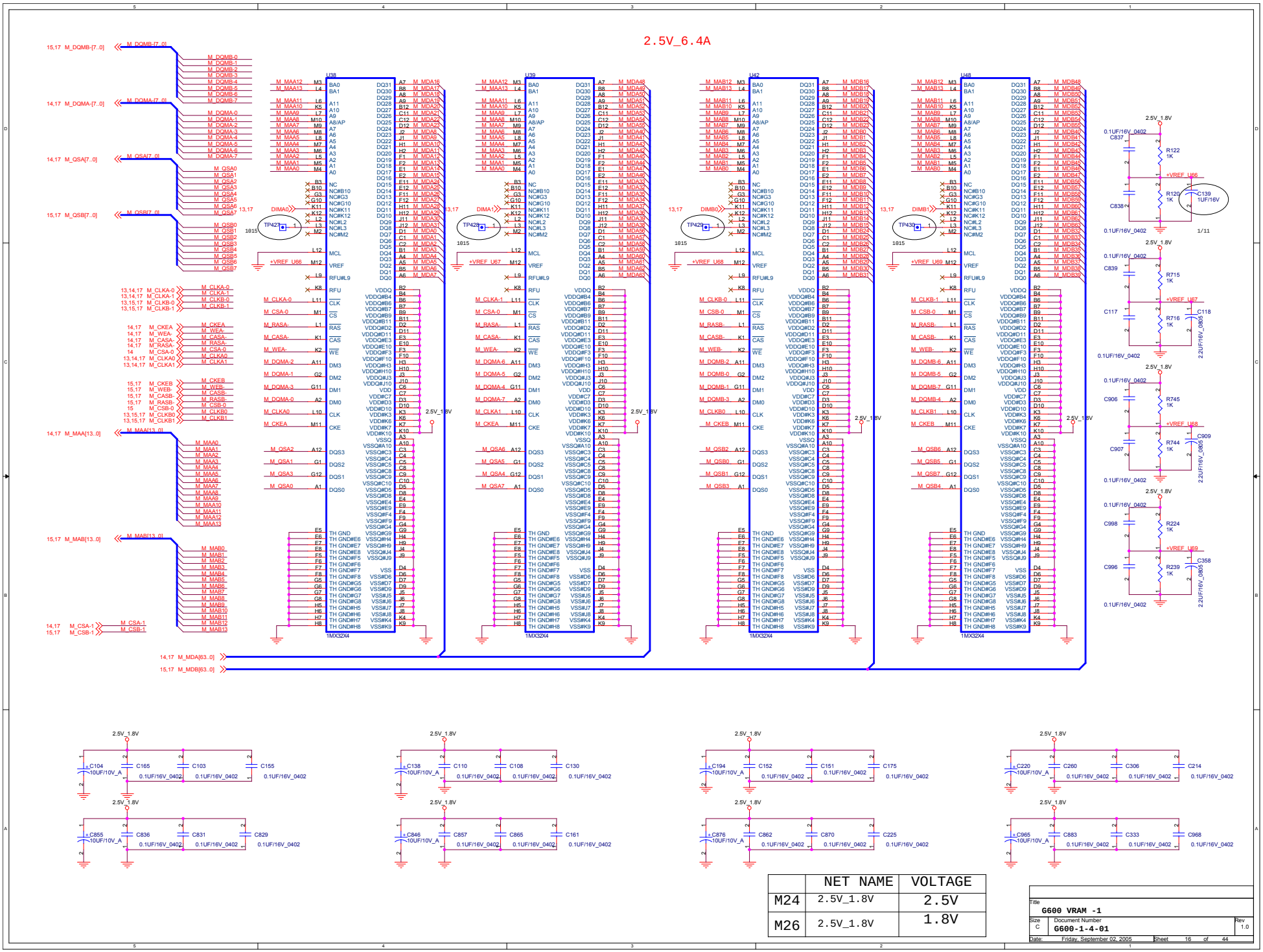

	NET NAME	VOLTAGE
M24	2.5V_1.8V	2.5V
M26	2.5V_1.8V	1.8V

Title: G600 VRAM -1
Size: C
Document Number: G600-1-4-01
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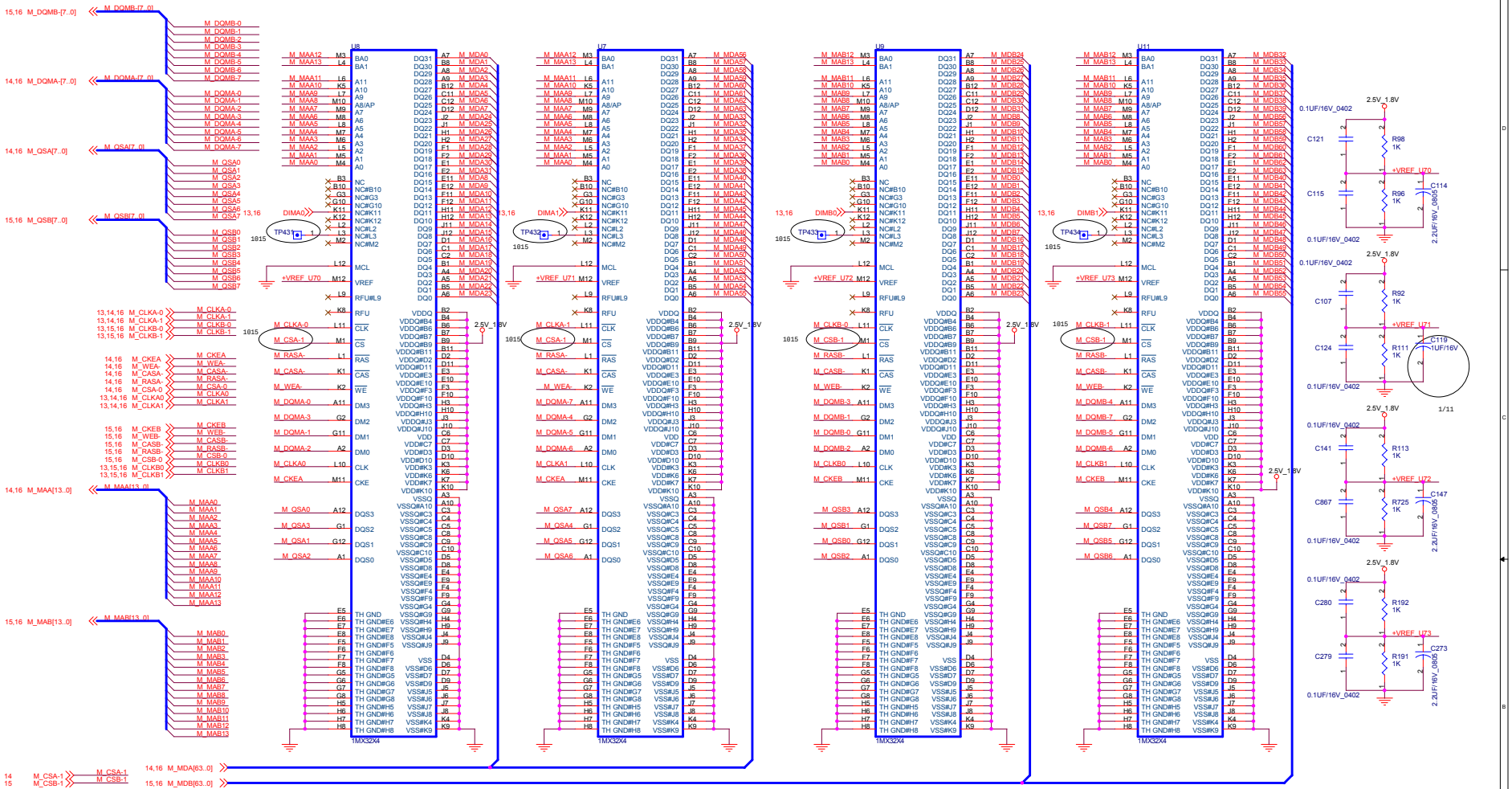
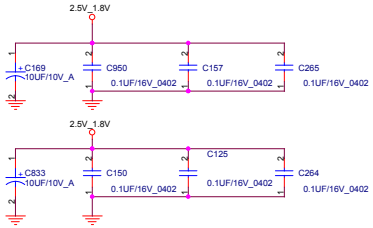
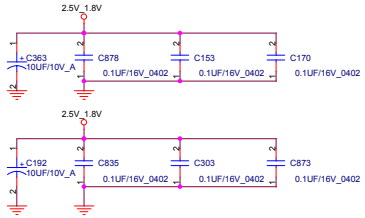
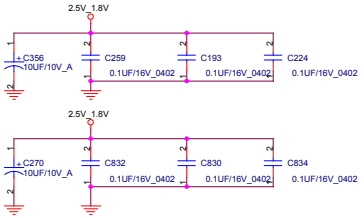
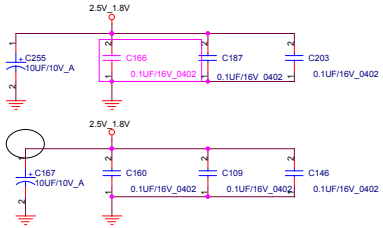










	NET NAME	VOLTAGE
M24	2.5V_1.8V	2.5V
M26	2.5V_1.8V	1.8V

Title: G600 VRAM-2

Size: C | Document Number: G600-1-4-01 | Rev: 1.0

Date: Friday, September 02, 2005 | Sheet 17 of 44

7/13 FOR M26 1.8V

ADD ASIC DECOUPLING FOR ALL POWER AS REQUIRED
PLACED CLOSE TO THE POWER/GND PINS
WITH AS MANY AS POSSIBLE PLACED UNDER THE ASIC

2.5V_1.8V_1A

DIODE SUPPLIES POWER
TO VDDC RAIL
WHILE VDDC REGULATOR
STABALIZES DURING POWER ON

PCIE1_2V_6.16A

M26 PCIE_PVDD_12
2A(transient),1A(continuous)

M26 PCIE_VDDR_18 1.8V
1A(transient),350mA(continuous)

I/O POWER

CENTER ARRAY

CORE GND

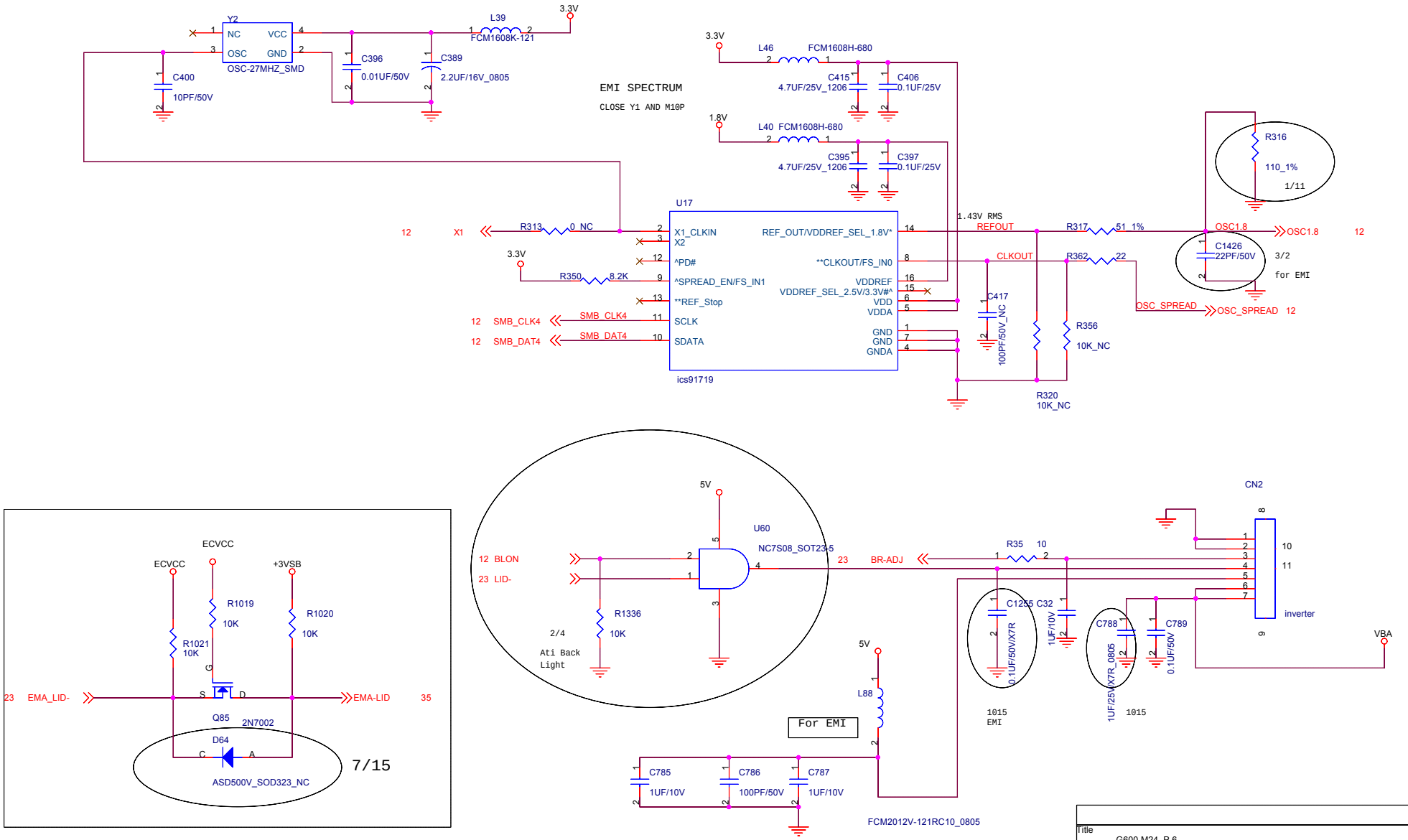
7/13 FOR M26 1.8V

	NET NAME	VOLTAGE
M24	2.5V_1.8V	2.5V
M26	2.5V_1.8V	1.8V

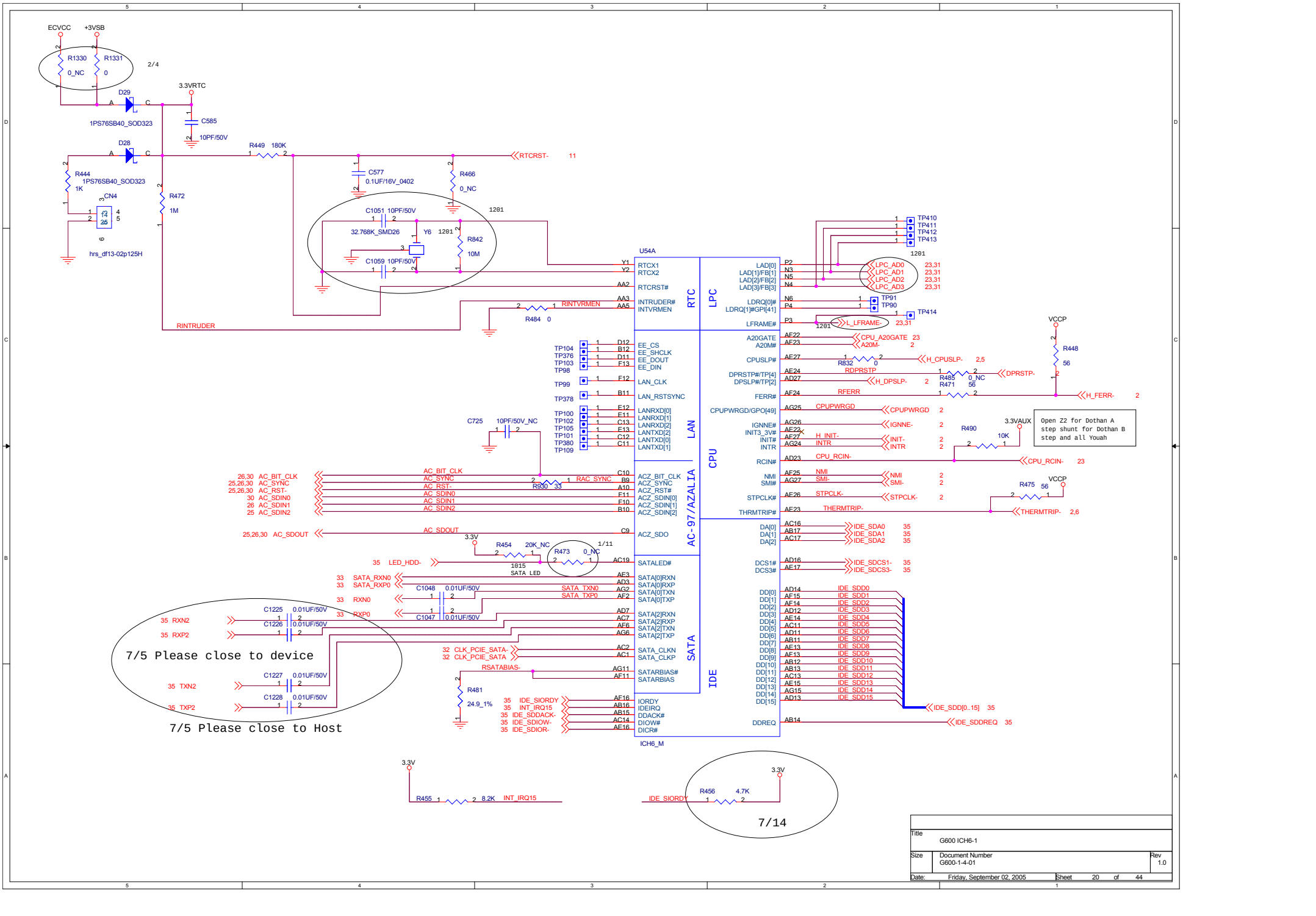
Title
G600 M24_P-5(POWER)

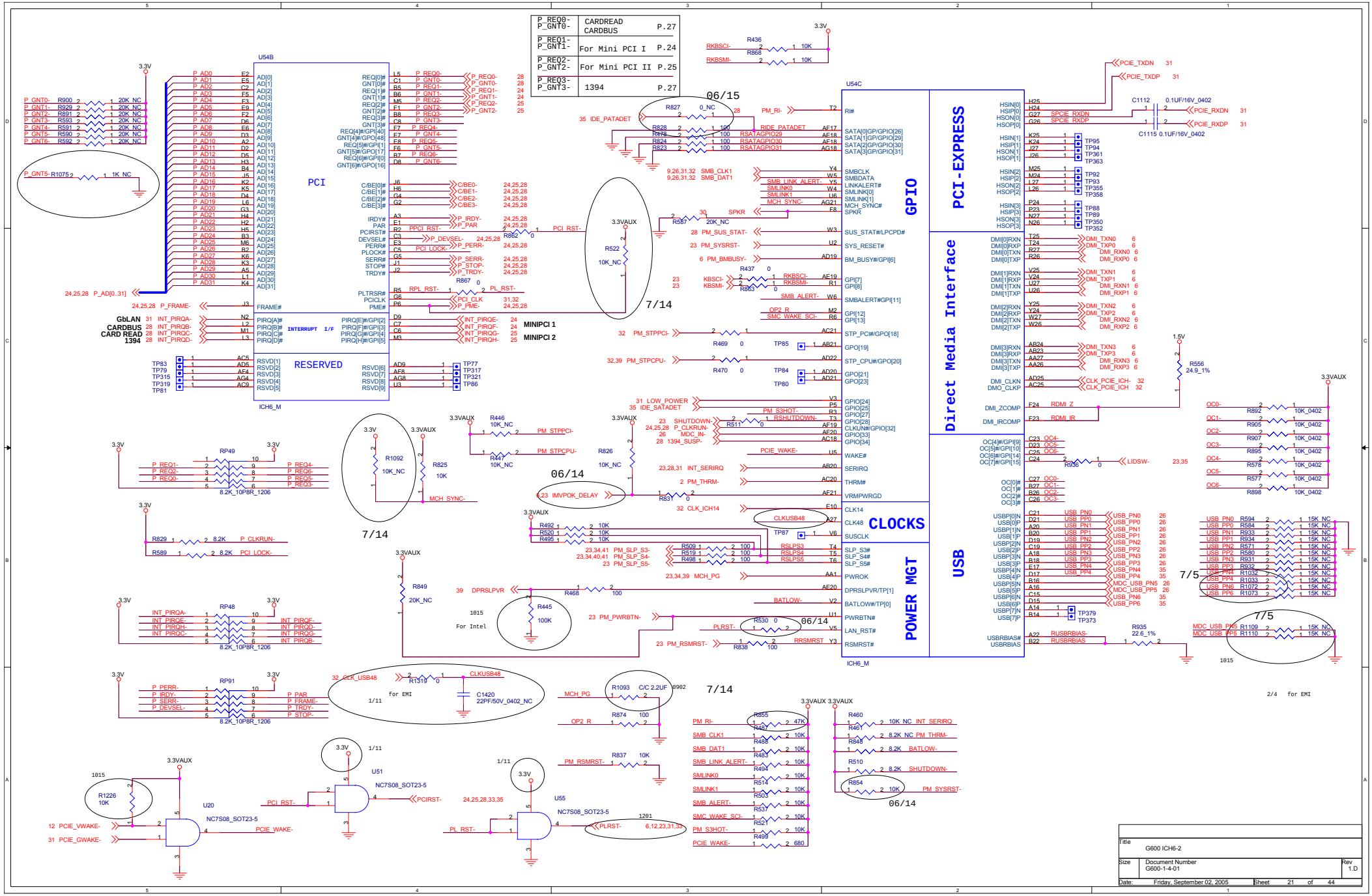
Size C | Document Number G600-1-4-01 | Rev 1.0

Date: Friday, September 02, 2005 | Sheet 18 of 44

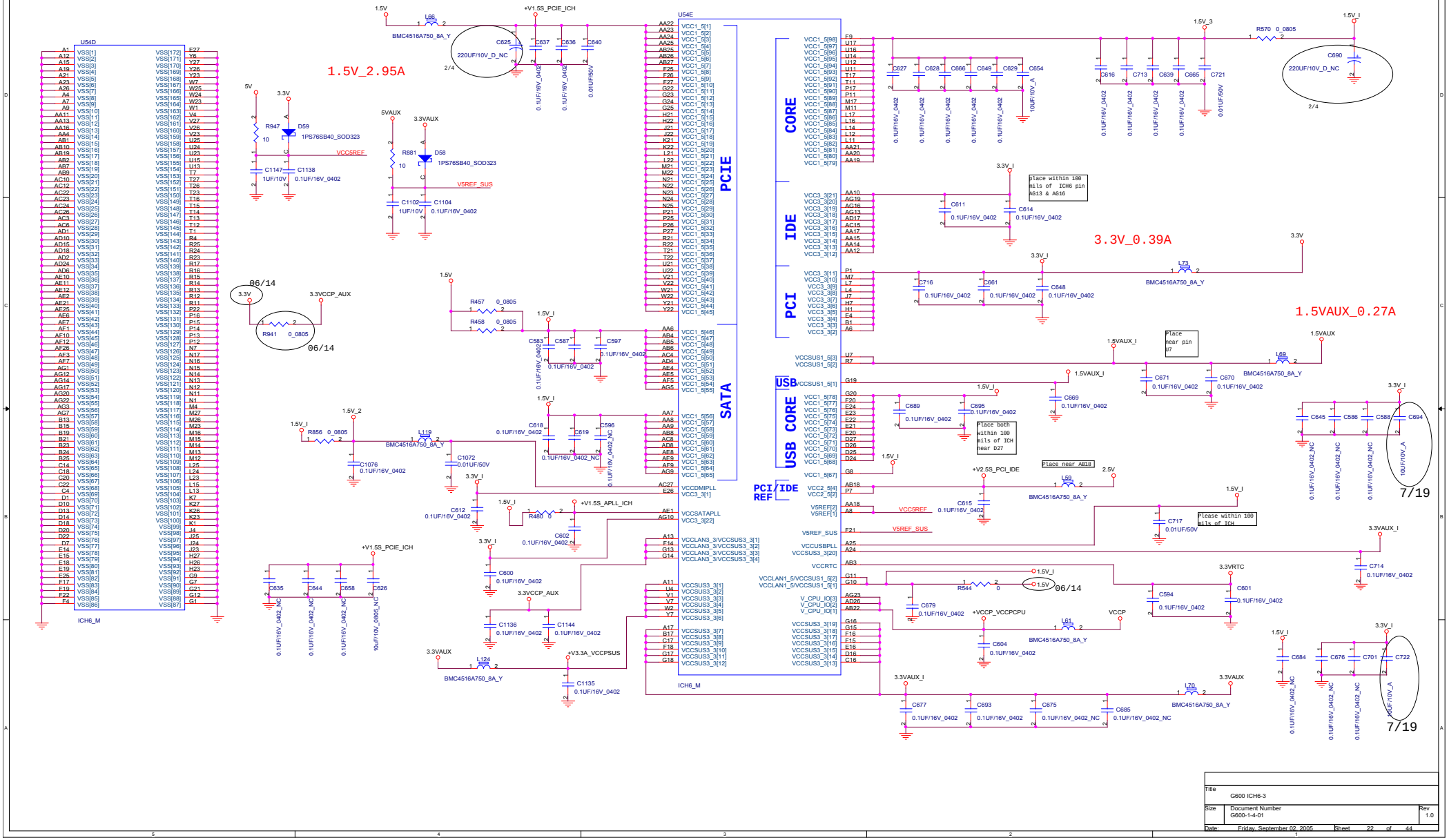


Title	G600 M24_P-6	
Size B	Document Number G600-1-4-01	Rev 1.0
Date: Friday, September 02, 2005	Sheet 19 of 44	

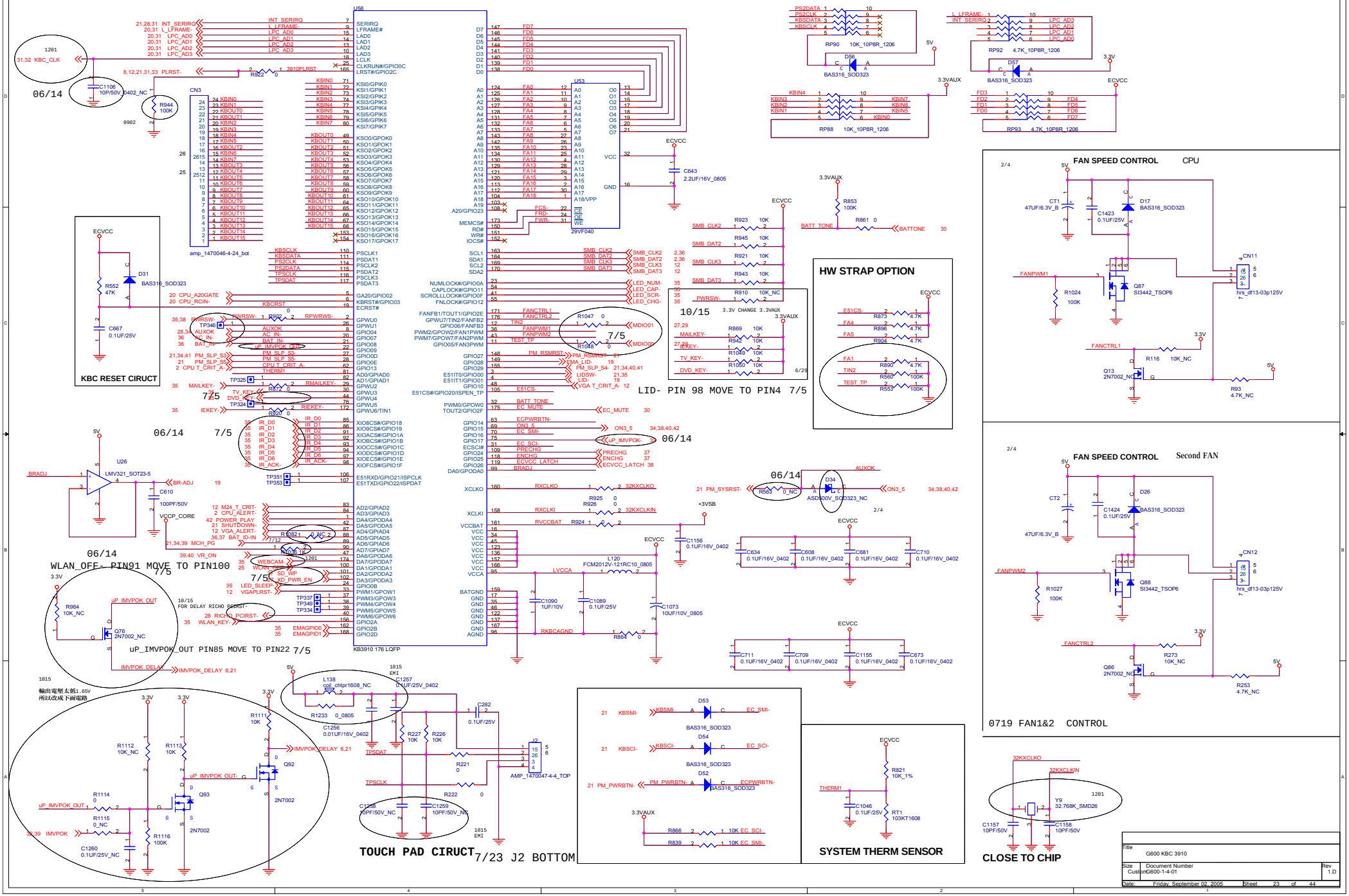

ECVCC
+3VSB
R1330
0_NC
R1331
0
2/4
D29
1PS76SB40_SOD323
3.3VRTC
C585
10PF/50V
D28
R444
1K
1PS76SB40_SOD323
CN4
hrs_df13-02p125H
R472
1M
R449 180K
RTCRST- 11
C577
0.1UF/16V_0402
R466
0_NC
C1051 10PF/50V
32.768K_SMD26
Y6 1201
C1059 10PF/50V
R842
10M
RINTRUDER
RINTVRMEN
R484 0
U54A
RTCX1
RTCX2
RTCRST#
INTRUDER#
INTVRMEN
RTC
LPC
LAD[0]
LAD[1]/FB[1]
LAD[2]/FB[2]
LAD[3]/FB[3]
LDRQ[0]#
LDRQ[1]#GPI[41]
LFRAME#
LPC_AD0
LPC_AD1
LPC_AD2
LPC_AD3
TP410
TP411
TP412
TP413
TP91
TP90
TP414
L_LFRAME-
EE_CS
EE_SHCLK
EE_DOUT
EE_DIN
LAN_CLK
LAN_RSTSYNC
LANRXD[0]
LANRXD[1]
LANRXD[2]
LANTXD[2]
LANTXD[0]
LANTXD[1]
LAN
CPU
A20GATE
A20M#
CPUSLP#
DPRSTP#/TP[4]
DPSLP#/TP[2]
FERR#
CPUPWRGD/GPO[49]
IGNNE#
INIT3_3V#
INIT#
INTR
RCIN#
NMI
SMI#
STPCLK#
THRMTRIP#
CPU_A20GATE
A20M-
H_CPUSLP-
H_DPSLP-
RDPRSTP
DPRSTP-
H_FERR-
RFERR
CPUPWRGD
IGNNE-
H_INIT-
INIT-
CPU_RCIN-
NMI
SMI-
STPCLK-
THERMTRIP-
VCCP
R448
56
R490
10K
3.3VAUX
R475
56
Open Z2 for Dothan A
step shunt for Dothan B
step and all Youah
C725 10PF/50V_NC
AC_BIT_CLK
AC_SYNC
AC_RST-
AC_SDIN0
AC_SDIN1
AC_SDIN2
AC_SDOUT
RAC_SYNC
R930 33
ACZ_BIT_CLK
ACZ_SYNC
ACZ_RST#
ACZ_SDIN[0]
ACZ_SDIN[1]
ACZ_SDIN[2]
ACZ_SDO
AC-97/AZALIA
R454 20K_NC
R473 0_NC
1/11
LED_HDD-
SATALED#
SATA_RXN0
SATA_RXP0
SATA_TXN0
SATA_TXP0
C1048 0.01UF/50V
C1047 0.01UF/50V
RXN0
RXP0
SATA[0]RXN
SATA[0]RXP
SATA[0]TXN
SATA[0]TXP
SATA[2]RXN
SATA[2]RXP
SATA[2]TXN
SATA[2]TXP
SATA_CLKN
SATA_CLKP
SATARBIAS#
SATARBIAS
SATA
C1225 0.01UF/50V
C1226 0.01UF/50V
C1227 0.01UF/50V
C1228 0.01UF/50V
RXN2
RXP2
TXN2
TXP2
7/5 Please close to device
7/5 Please close to Host
CLK_PCIE_SATA-
CLK_PCIE_SATA
RSATABIAS-
R481
24.9_1%
IDE_SIORDY
INT_IRQ15
IDE_SDDACK-
IDE_SDIOW-
IDE_SDIOR-
iORDY
IDEIRQ
DDACK#
DIOW#
DICR#
DDREQ
IDE
DA[0]
DA[1]
DA[2]
DCS1#
DCS3#
DD[0]
DD[1]
DD[2]
DD[3]
DD[4]
DD[5]
DD[6]
DD[7]
DD[8]
DD[9]
DD[10]
DD[11]
DD[12]
DD[13]
DD[14]
DD[15]
IDE_SDA0
IDE_SDA1
IDE_SDA2
IDE_SDCS1-
IDE_SDCS3-
IDE_SDD0
IDE_SDD1
IDE_SDD2
IDE_SDD3
IDE_SDD4
IDE_SDD5
IDE_SDD6
IDE_SDD7
IDE_SDD8
IDE_SDD9
IDE_SDD10
IDE_SDD11
IDE_SDD12
IDE_SDD13
IDE_SDD14
IDE_SDD15
IDE_SDD[0..15]
IDE_SDDREQ
ICH6_M
R455 8.2K
INT_IRQ15
R456 4.7K
7/14
Title
G600 ICH6-1
Size
Document Number
G600-1-4-01
Rev
1.0
Date: Friday, September 02, 2005
Sheet 20 of 44



P_REQ0- P_GNT0- CARDREAD CARDBUS P.27
P_REQ1- P_GNT1- For Mini PCI I P.24
P_REQ2- P_GNT2- For Mini PCI II P.25
P_REQ3- P_GNT3- 1394 P.27
U54B
PCI
RESERVED
ICH6_M
INTERRUPT I/F
GbLAN
CARDBUS
CARD READ
1394
MINIPCI 1
MINIPCI 2
U54C
GPIO
PCI-EXPRESS
Direct Media Interface
CLOCKS
POWER MGT
USB
ICH6_M
06/15
7/14
06/14
7/5
1015
For Intel
for EMI
2/4 for EMI
U20
NC7S08_SOT23-5
U51
NC7S08_SOT23-5
U55
NC7S08_SOT23-5
Title
G600 ICH6-2
Size
Document Number
G600-1-4-01
Rev
1.D
Date: Friday, September 02, 2005
Sheet 21 of 44



Title	G600 ICH6-3	
Size	Document Number G600-1-4-01	Rev 1.0
Date: Friday, September 02, 2005	Sheet 22 of 44	


KBC RESET CIRUCT
LID- PIN 98 MOVE TO PIN4 7/5
HW STRAP OPTION
FAN SPEED CONTROL CPU
FAN SPEED CONTROL Second FAN
0719 FAN1&2 CONTROL
WLAN_OFF- PIN91 MOVE TO PIN100 7/5
uP_IMVPOK_OUT PIN85 MOVE TO PIN22 7/5
TOUCH PAD CIRUCT 7/23 J2 BOTTOM
SYSTEM THERM SENSOR
CLOSE TO CHIP
KB3910 176 LQFP
amp_1470046-4-24_bot
AMP_1470047-4-4_TOP
29VF040
RP90 10K_10P8R_1206
RP92 4.7K_10P8R_1206
RP88 10K_10P8R_1206
RP93 4.7K_10P8R_1206
BAS316_SOD323
ASD260V_SOD323_NC
LMV321_SOT23-5
FCM2012V-121RC10_0805
2N7002
2N7002_NC
SI3442_TSOP6
hrs_df13-03p125V
32.768K_SMD26
Title G600 KBC 3910
Size Custom
Document Number G600-1-4-01
Rev 1.D
Date: Friday, September 02, 2005
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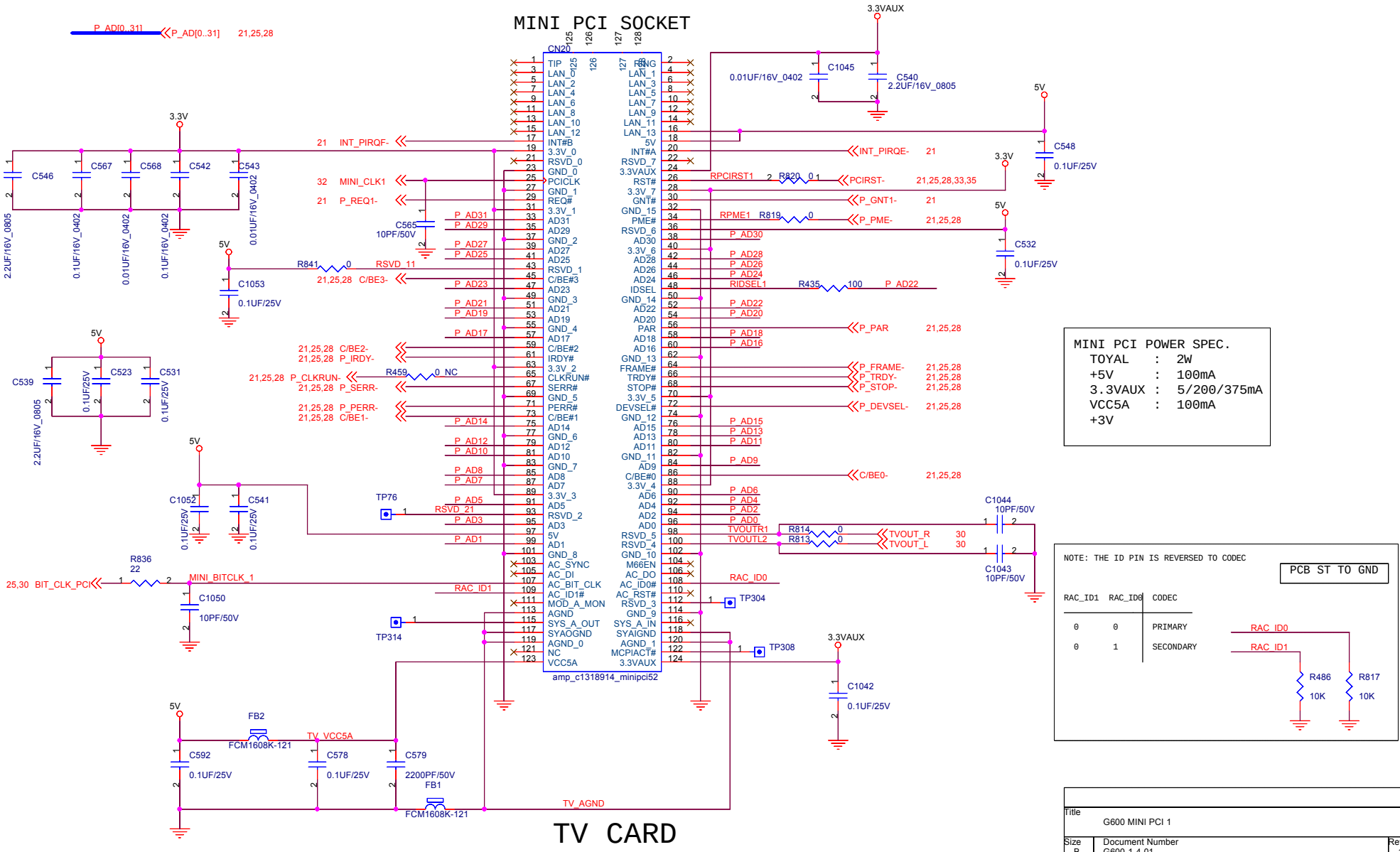
MINI PCI SOCKET 1



MINI PCI POWER SPEC.
TOYAL : 2W
+5V : 100mA
3.3VAUX : 5/200/375mA
VCC5A : 100mA
+3V

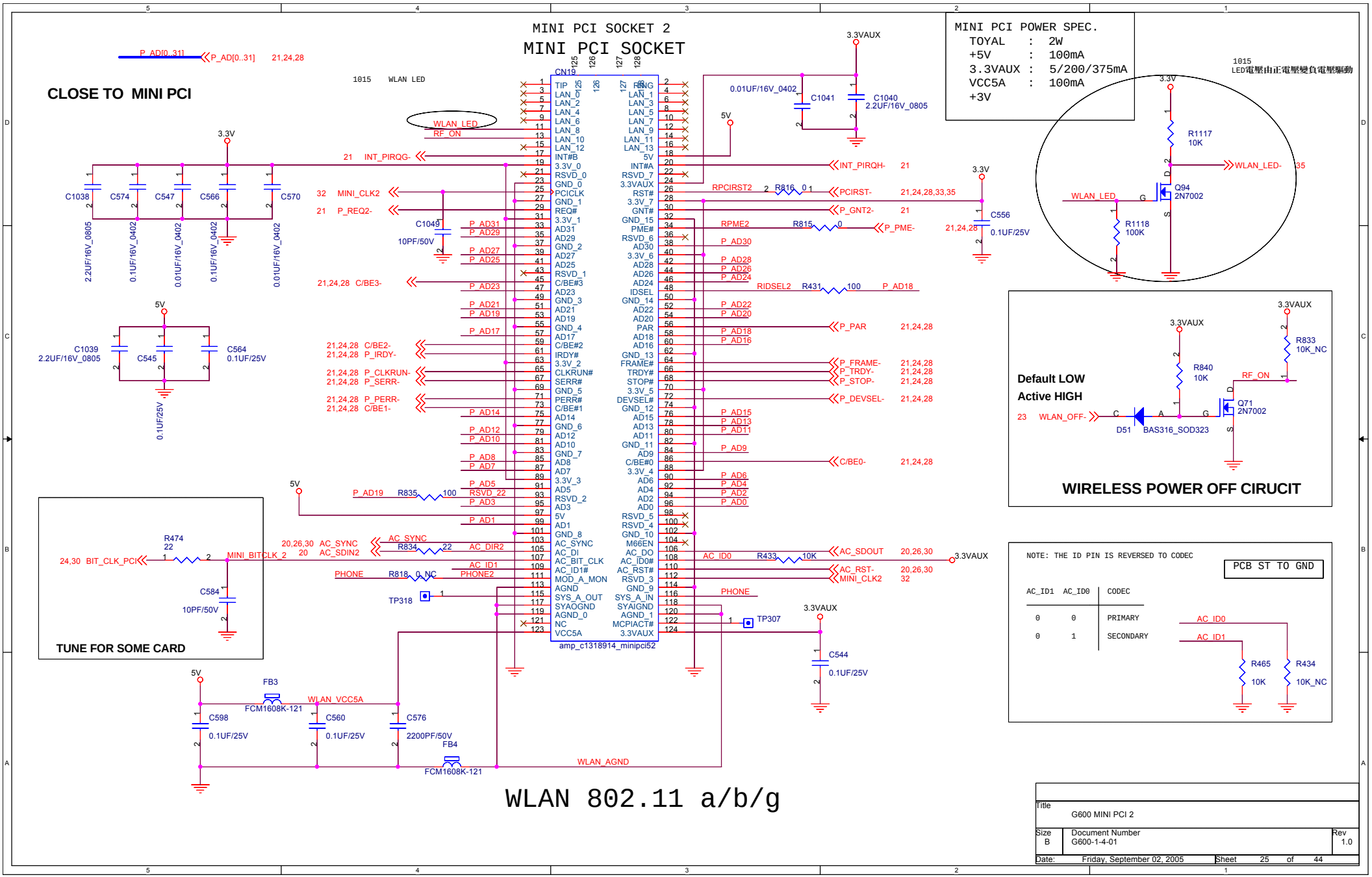
NOTE: THE ID PIN IS REVERSED TO CODEC

PCB ST TO GND

RAC_ID1	RAC_ID0	CODEC
0	0	PRIMARY
0	1	SECONDARY

RAC_ID0 — R486 10K
RAC_ID1 — R817 10K

Title	G600 MINI PCI 1	
Size B	Document Number G600-1-4-01	Rev 1.0
Date: Friday, September 02, 2005	Sheet 24 of 44	


MINI PCI SOCKET 2
MINI PCI SOCKET
CN19
amp_c1318914_minipci52
CLOSE TO MINI PCI
1015 WLAN LED
MINI PCI POWER SPEC.
TOYAL : 2W
+5V : 100mA
3.3VAUX : 5/200/375mA
VCC5A : 100mA
+3V
1015
LED電壓由正電壓變負電壓驅動
Default LOW
Active HIGH
WIRELESS POWER OFF CIRUCIT
TUNE FOR SOME CARD
NOTE: THE ID PIN IS REVERSED TO CODEC
PCB ST TO GND
AC_ID1 AC_ID0 CODEC
0 0 PRIMARY
0 1 SECONDARY
WLAN 802.11 a/b/g
Title
G600 MINI PCI 2
Size B
Document Number G600-1-4-01
Rev 1.0
Date: Friday, September 02, 2005
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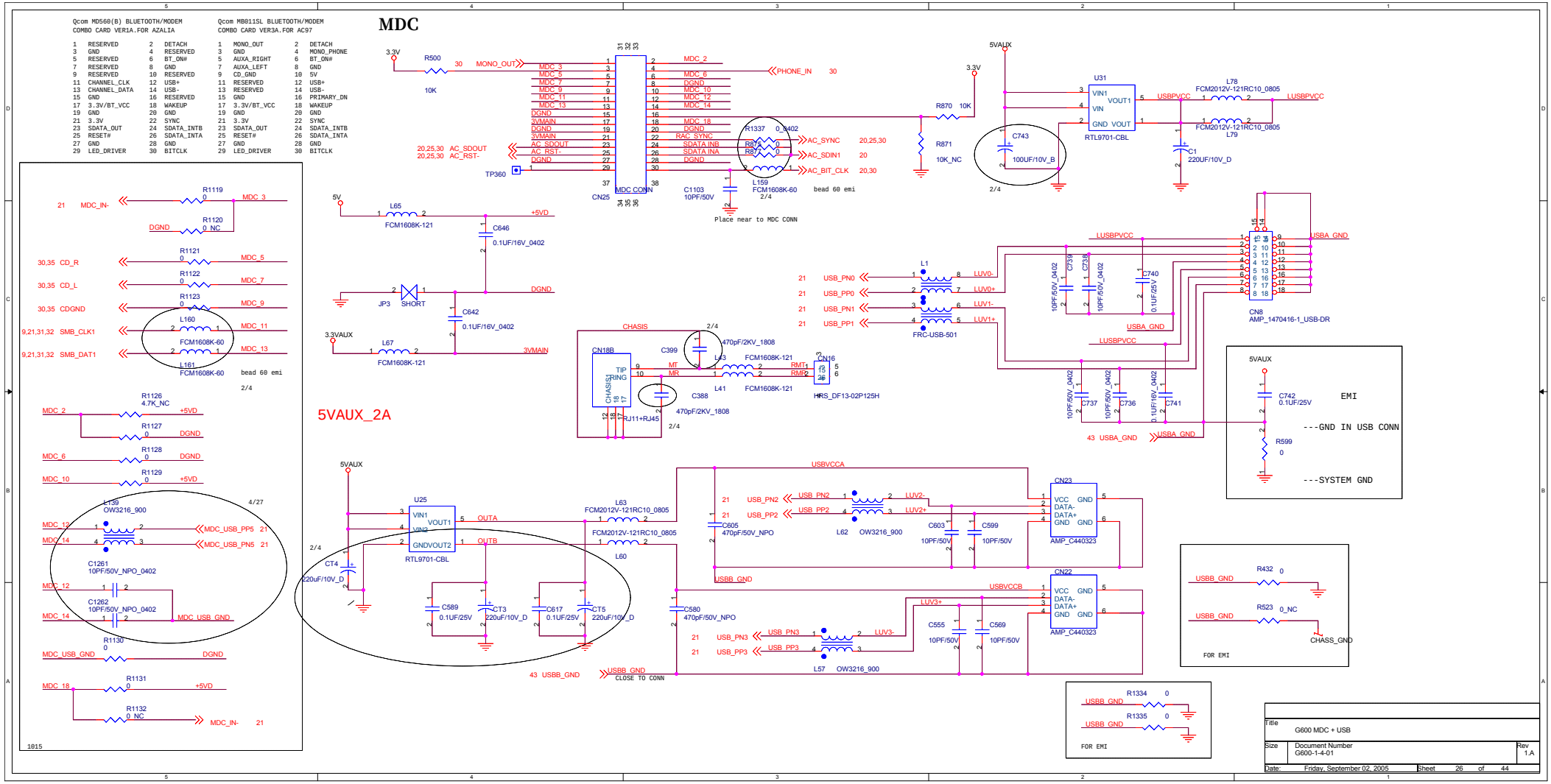
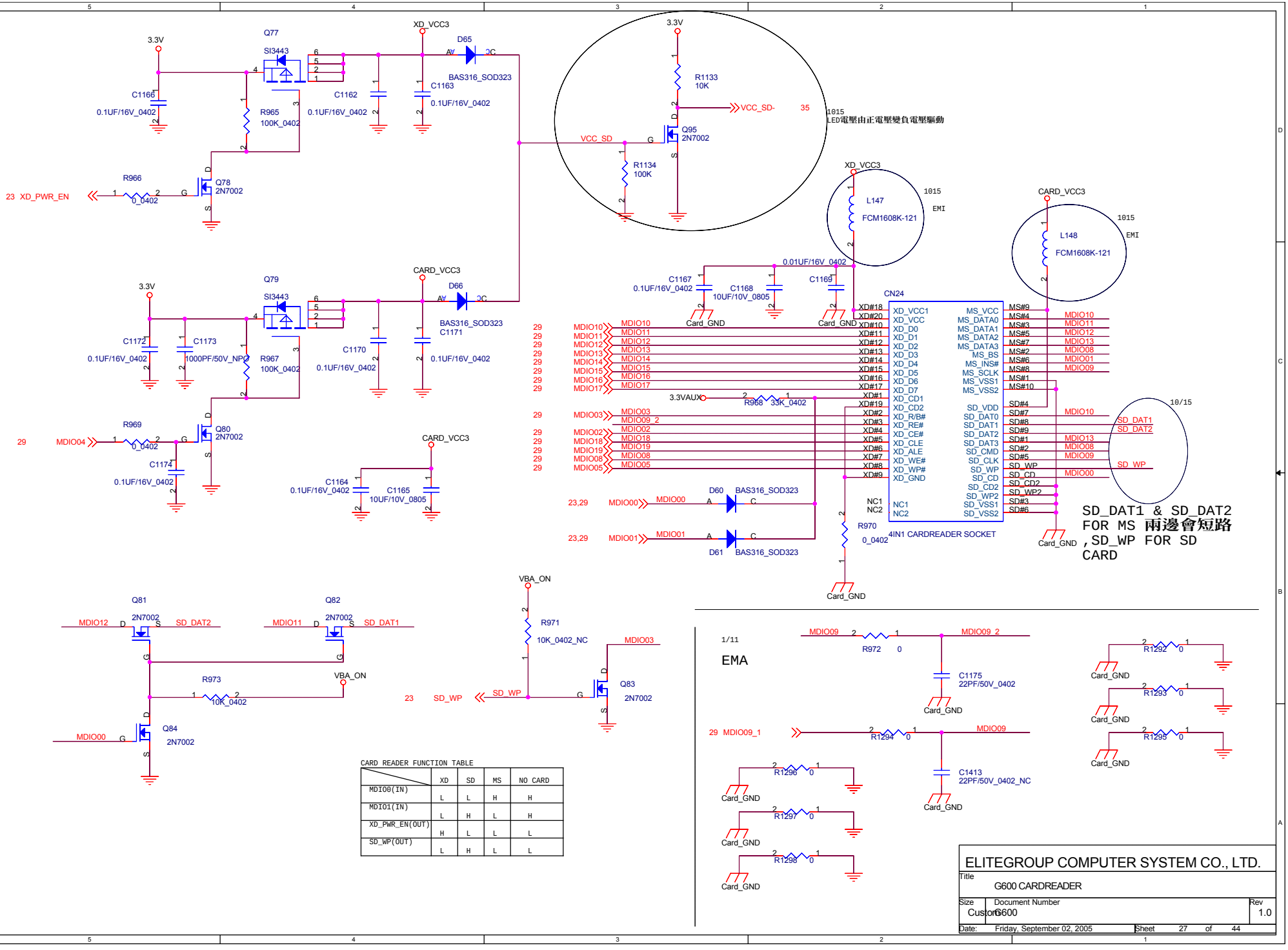

MDC
Qcom MD560(B) BLUETOOTH/MODEM
COMBO CARD VER1A.FOR AZALIA
Qcom MB011SL BLUETOOTH/MODEM
COMBO CARD VER3A.FOR AC97
MDC CONN
CN25
Place near to MDC CONN
5VAUX_2A
RTL9701-CBL
FRC-USB-501
CN8
AMP_1470416-1_USB-DR
HRS_DF13-02P125H
AMP_C440323
EMI
---GND IN USB CONN
---SYSTEM GND
FOR EMI
CLOSE TO CONN
Title
G600 MDC + USB
Size
Document Number
G600-1-4-01
Rev
1.A
Date: Friday, September 02, 2005
Sheet 26 of 44

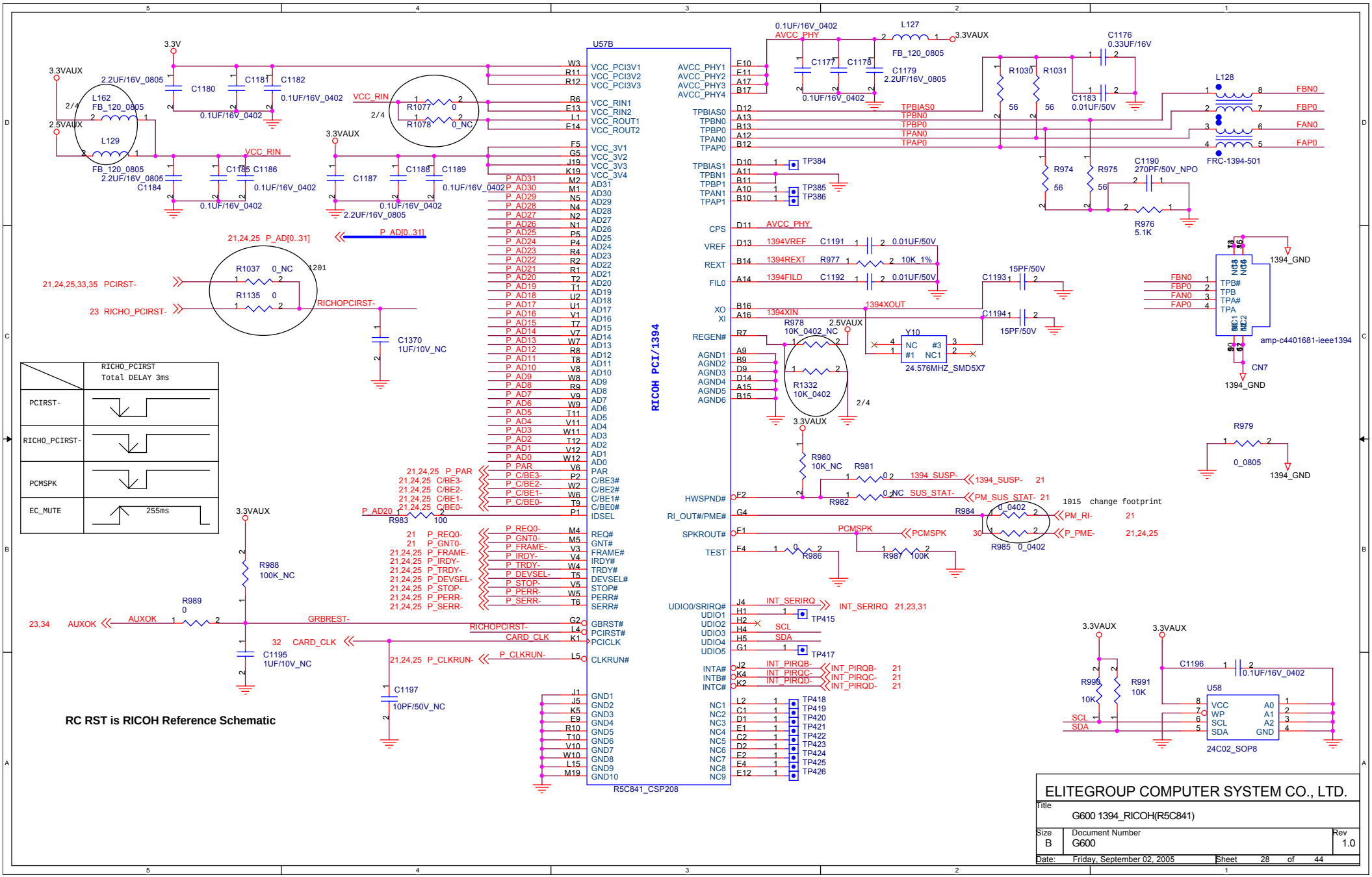


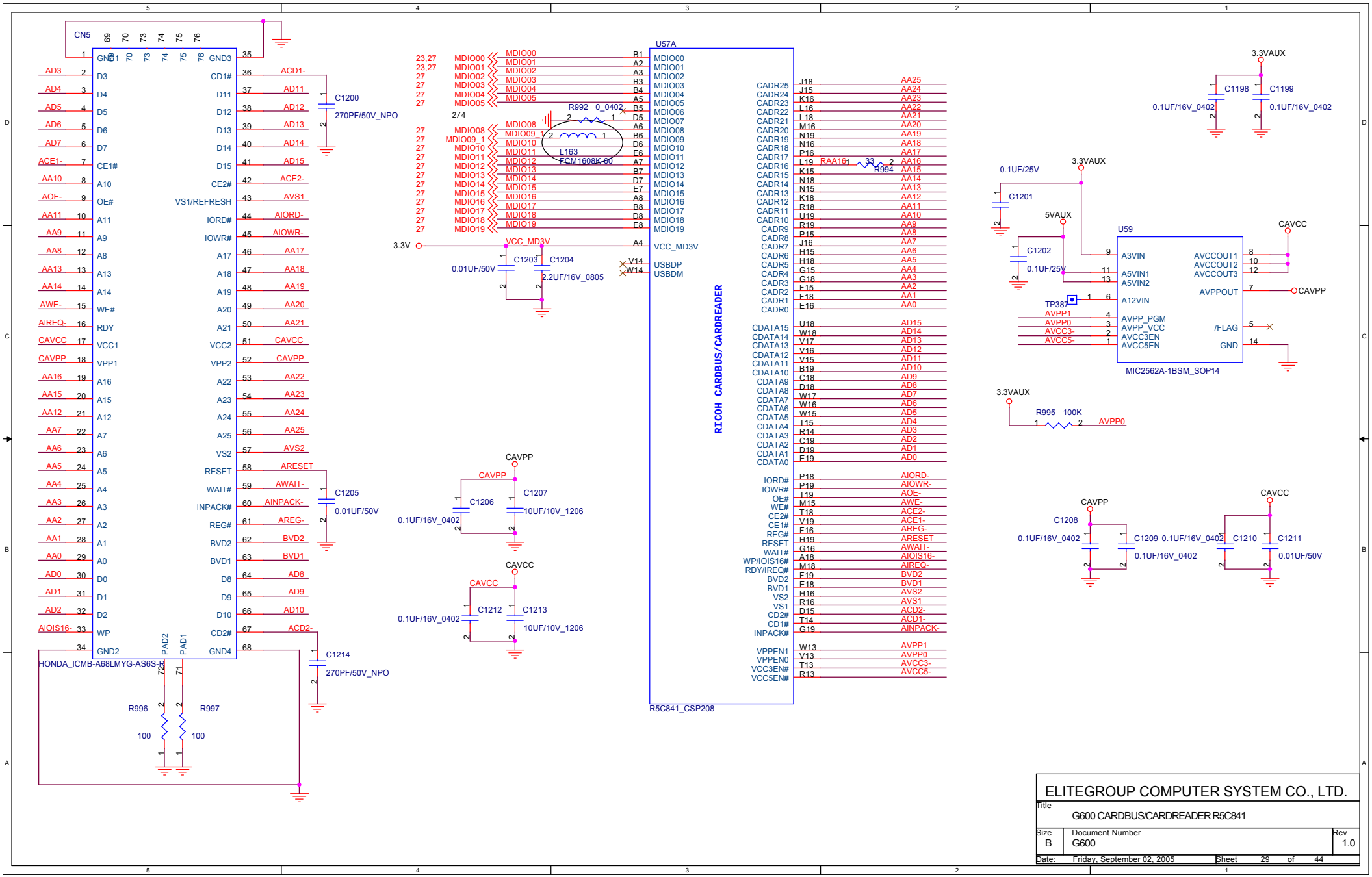
CARD READER FUNCTION TABLE

	XD	SD	MS	NO CARD
MDIO0(IN)	L	L	H	H
MDIO1(IN)	L	H	L	H
XD_PWR_EN(OUT)	H	L	L	L
SD_WP(OUT)	L	H	L	L

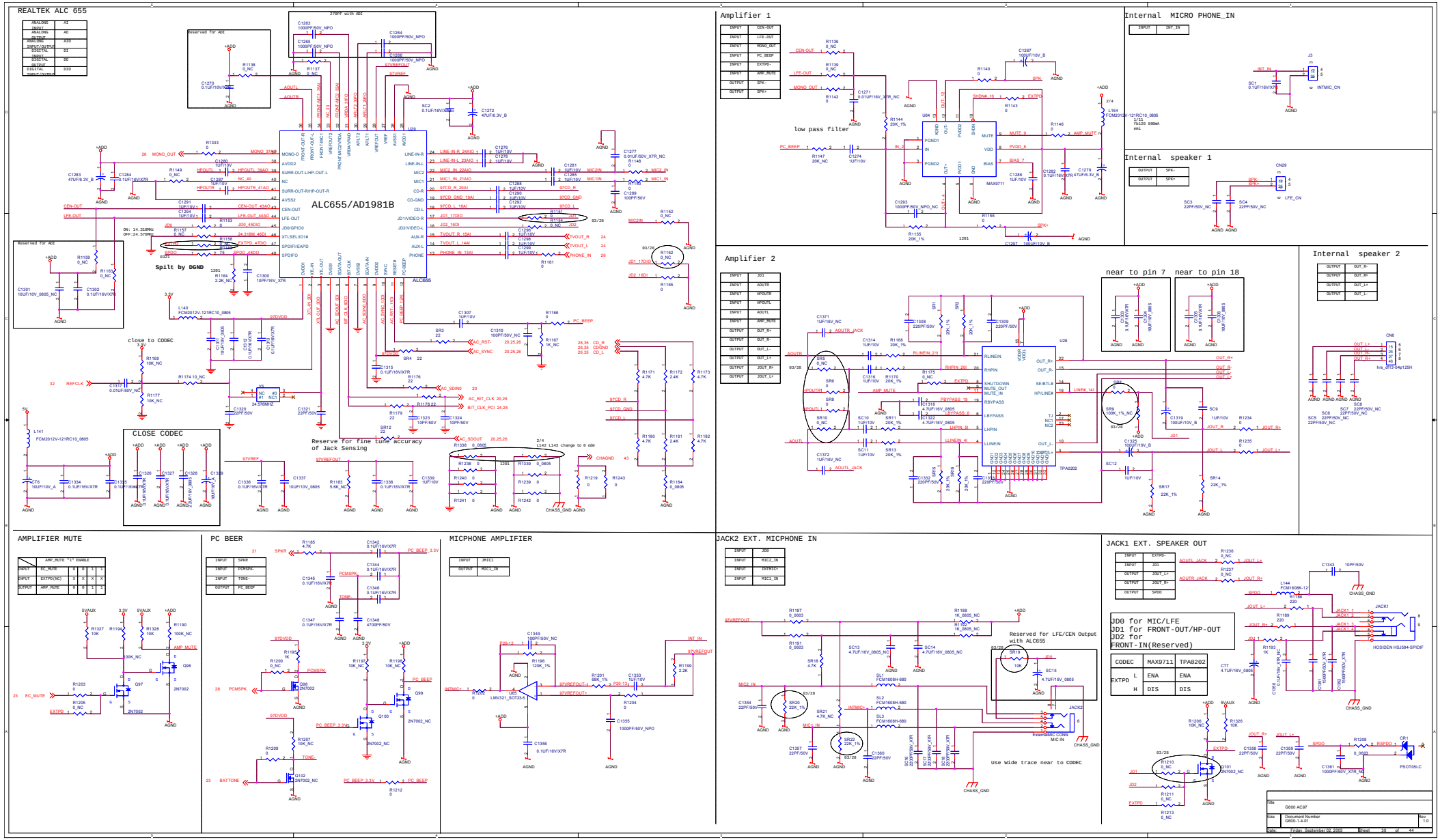
ELITEGROUP COMPUTER SYSTEM CO., LTD.

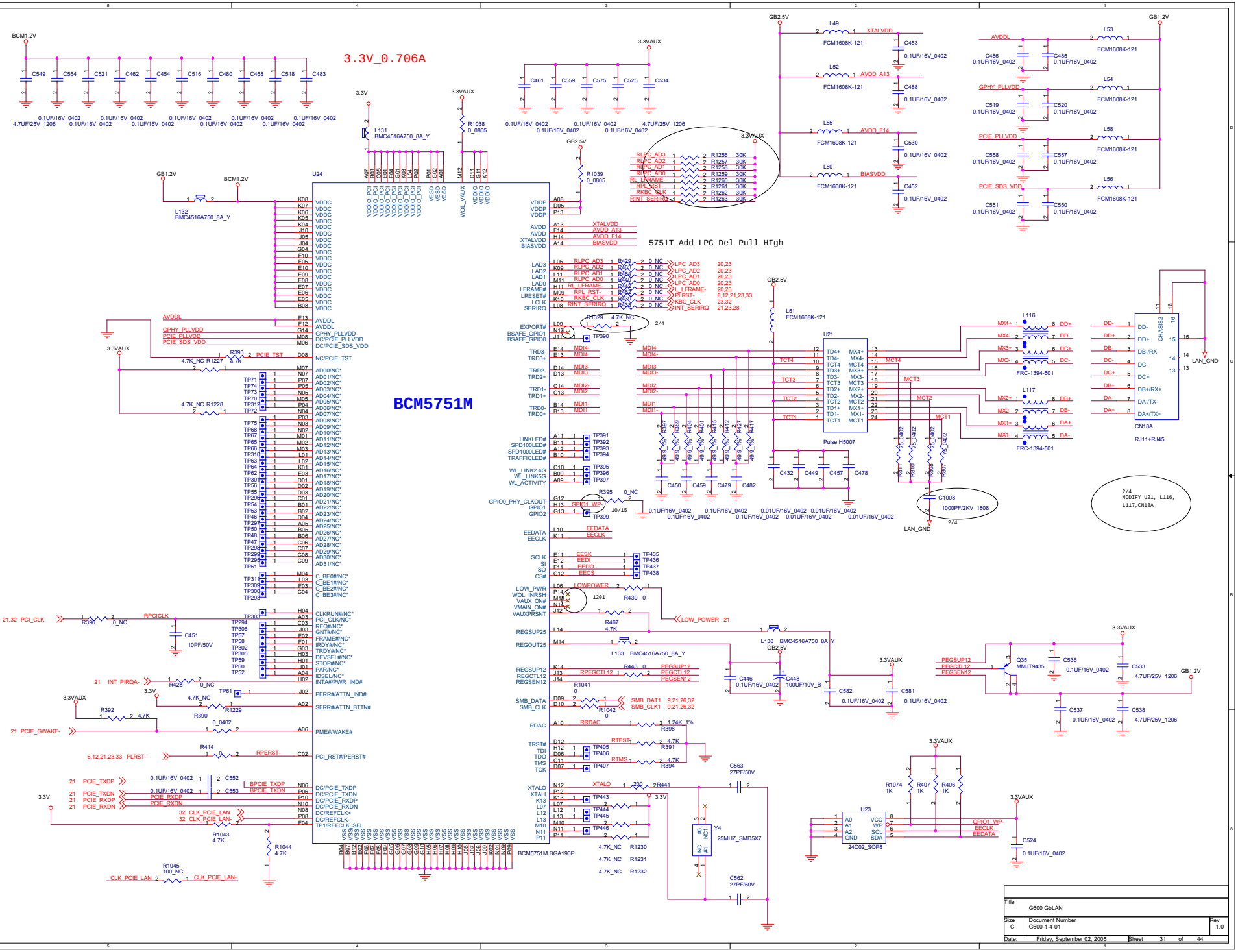
Title	G600 CARDREADER	
Size: Custom	Document Number: G600	Rev: 1.0
Date: Friday, September 02, 2005	Sheet 27 of 44	

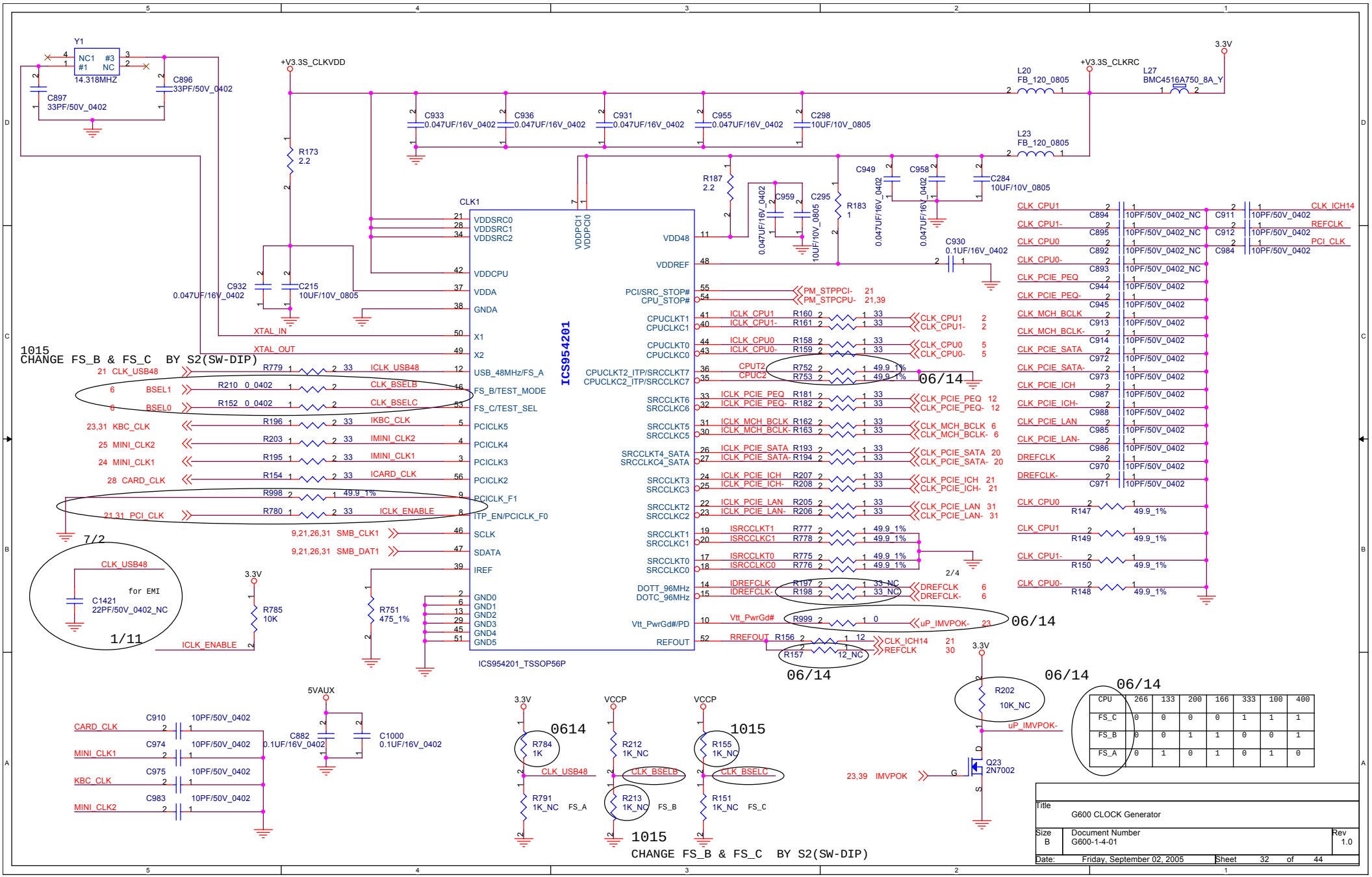

U57B
RICOH PCI/1394
R5C841_CSP208
RICHO_PCIRST
Total DELAY 3ms
PCIRST-
RICHO_PCIRST-
PCMSPK
EC_MUTE
255ms
RC RST is RICOH Reference Schematic
1015 change footprint
ELITEGROUP COMPUTER SYSTEM CO., LTD.
Title
G600 1394_RICOH(R5C841)
Size
B
Document Number
G600
Rev
1.0
Date: Friday, September 02, 2005
Sheet 28 of 44



ELITEGROUP COMPUTER SYSTEM CO., LTD.			
Title: G600 CARDBUS/CARDREADER R5C841			
Size: B	Document Number: G600		Rev: 1.0
Date: Friday, September 02, 2005	Sheet 29 of 44		


REALTEK ALC 655
ALC655/AD1981B
Spilt by DGND
close to CODEC
CLOSE CODEC
Reserve for fine tune accuracy of Jack Sensing
Amplifier 1
low pass filter
Amplifier 2
near to pin 7
near to pin 18
Internal MICRO PHONE_IN
Internal speaker 1
Internal speaker 2
AMPLIFIER MUTE
PC BEER
MICPHONE AMPLIFIER
JACK2 EXT. MICPHONE IN
JACK1 EXT. SPEAKER OUT
Reserved for LFE/CEN Output with ALC655
Use Wide trace near to CODEC
JD0 for MIC/LFE
JD1 for FRONT-OUT/HP-OUT
JD2 for
FRONT-IN(Reserved)
CODEC MAX9711 TPA0202
EXTPD L ENA ENA
EXTPD H DIS DIS
G600 AC97
Friday, September 02, 2005


3.3V_0.706A
BCM5751M
5751T Add LPC Del Pull HIgh
BCM5751M BGA196P
2/4
MODIFY U21, L116, L117,CN18A
CN18A
RJ11+RJ45
LAN_GND
Title
G600 GbLAN
Size
C
Document Number
G600-1-4-01
Rev
1.0
Date: Friday, September 02, 2005
Sheet 31 of 44


Y1
14.318MHZ
C896 33PF/50V_0402
C897 33PF/50V_0402
+V3.3S_CLKVDD
+V3.3S_CLKRC
3.3V
L20 FB_120_0805
L27 BMC4516A750_8A_Y
L23 FB_120_0805
C933 0.047UF/16V_0402
C936 0.047UF/16V_0402
C931 0.047UF/16V_0402
C955 0.047UF/16V_0402
C298 10UF/10V_0805
C284 10UF/10V_0805
R173 2.2
R187 2.2
C959
C295 10UF/10V_0805
R183 1
C949
C958
C930 0.1UF/16V_0402
C932 0.047UF/16V_0402
C215 10UF/10V_0805
CLK1
ICS954201
ICS954201_TSSOP56P
VDDSRC0
VDDSRC1
VDDSRC2
VDDCPU
VDDA
GNDA
X1
X2
XTAL_IN
XTAL_OUT
USB_48MHz/FS_A
FS_B/TEST_MODE
FS_C/TEST_SEL
PCICLK5
PCICLK4
PCICLK3
PCICLK2
PCICLK_F1
ITP_EN/PCICLK_F0
SCLK
SDATA
IREF
GND0
GND1
GND2
GND3
GND4
GND5
VDDPCI1
VDDPCI0
VDD48
VDDREF
PCI/SRC_STOP#
CPU_STOP#
CPUCLKT1
CPUCLKC1
CPUCLKT0
CPUCLKC0
CPUCLKT2_ITP/SRCCLKT7
CPUCLKC2_ITP/SRCCLKC7
SRCCLKT6
SRCCLKC6
SRCCLKT5
SRCCLKC5
SRCCLKT4_SATA
SRCCLKC4_SATA
SRCCLKT3
SRCCLKC3
SRCCLKT2
SRCCLKC2
SRCCLKT1
SRCCLKC1
SRCCLKT0
SRCCLKC0
DOTT_96MHz
DOTC_96MHz
Vtt_PwrGd#/PD
REFOUT
1015
CHANGE FS_B & FS_C BY S2(SW-DIP)
21 CLK_USB48
6 BSEL1
6 BSEL0
23,31 KBC_CLK
25 MINI_CLK2
24 MINI_CLK1
28 CARD_CLK
21,31 PCI_CLK
9,21,26,31 SMB_CLK1
9,21,26,31 SMB_DAT1
R779 33 ICLK_USB48
R210 0_0402 CLK_BSELB
R152 0_0402 CLK_BSELC
R196 33 IKBC_CLK
R203 33 IMINI_CLK2
R195 33 IMINI_CLK1
R154 33 ICARD_CLK
R998 49.9_1%
R780 33 ICLK_ENABLE
7/2
CLK_USB48
for EMI
C1421 22PF/50V_0402_NC
1/11
ICLK_ENABLE
R785 10K
R751 475_1%
CPU_PWRGD
PM_STPPCI- 21
PM_STPCPU- 21,39
ICLK_CPU1 R160 33 CLK_CPU1 2
ICLK_CPU1- R161 33 CLK_CPU1- 2
ICLK_CPU0 R158 33 CLK_CPU0 5
ICLK_CPU0- R159 33 CLK_CPU0- 5
CPUT2 R752 49.9_1%
CPUC2 R753 49.9_1%
06/14
ICLK_PCIE_PEQ R181 33 CLK_PCIE_PEQ 12
ICLK_PCIE_PEQ- R182 33 CLK_PCIE_PEQ- 12
ICLK_MCH_BCLK R162 33 CLK_MCH_BCLK 6
ICLK_MCH_BCLK- R163 33 CLK_MCH_BCLK- 6
ICLK_PCIE_SATA R193 33 CLK_PCIE_SATA 20
ICLK_PCIE_SATA- R194 33 CLK_PCIE_SATA- 20
ICLK_PCIE_ICH R207 33 CLK_PCIE_ICH 21
ICLK_PCIE_ICH- R208 33 CLK_PCIE_ICH- 21
ICLK_PCIE_LAN R205 33 CLK_PCIE_LAN 31
ICLK_PCIE_LAN- R206 33 CLK_PCIE_LAN- 31
ISRCCLKT1 R777 49.9_1%
ISRCCLKC1 R778 49.9_1%
ISRCCLKT0 R775 49.9_1%
ISRCCLKC0 R776 49.9_1%
2/4
IDREFCLK R197 33_NC DREFCLK 6
IDREFCLK- R198 33_NC DREFCLK- 6
Vtt_PwrGd# R999 0 uP_IMVPOK- 23
06/14
RREFOUT R156 12
R157 12_NC
CLK_ICH14 21
REFCLK 30
06/14
CLK_CPU1 C894 10PF/50V_0402_NC
CLK_CPU1- C895 10PF/50V_0402_NC
CLK_CPU0 C892 10PF/50V_0402_NC
CLK_CPU0- C893 10PF/50V_0402_NC
CLK_PCIE_PEQ C944 10PF/50V_0402
CLK_PCIE_PEQ- C945 10PF/50V_0402
CLK_MCH_BCLK C913 10PF/50V_0402
CLK_MCH_BCLK- C914 10PF/50V_0402
CLK_PCIE_SATA C972 10PF/50V_0402
CLK_PCIE_SATA- C973 10PF/50V_0402
CLK_PCIE_ICH C987 10PF/50V_0402
CLK_PCIE_ICH- C988 10PF/50V_0402
CLK_PCIE_LAN C985 10PF/50V_0402
CLK_PCIE_LAN- C986 10PF/50V_0402
DREFCLK C970 10PF/50V_0402
DREFCLK- C971 10PF/50V_0402
CLK_ICH14 C911 10PF/50V_0402
REFCLK C912 10PF/50V_0402
PCI_CLK C984 10PF/50V_0402
CLK_CPU0 R147 49.9_1%
CLK_CPU1 R149 49.9_1%
CLK_CPU1- R150 49.9_1%
CLK_CPU0- R148 49.9_1%
5VAUX
C882 0.1UF/16V_0402
C1000 0.1UF/16V_0402
CARD_CLK C910 10PF/50V_0402
MINI_CLK1 C974 10PF/50V_0402
KBC_CLK C975 10PF/50V_0402
MINI_CLK2 C983 10PF/50V_0402
3.3V
0614
R784 1K
CLK_USB48
R791 1K_NC FS_A
VCCP
R212 1K_NC
CLK_BSELB
R213 1K_NC FS_B
1015
R155 1K_NC
CLK_BSELC
R151 1K_NC FS_C
1015
CHANGE FS_B & FS_C BY S2(SW-DIP)
R202 10K_NC
uP_IMVPOK-
23,39 IMVPOK
Q23 2N7002
06/14
CPU 266 133 200 166 333 100 400
FS_C 0 0 0 0 1 1 1
FS_B 0 0 1 1 0 0 1
FS_A 0 1 0 1 0 1 0
Title
G600 CLOCK Generator
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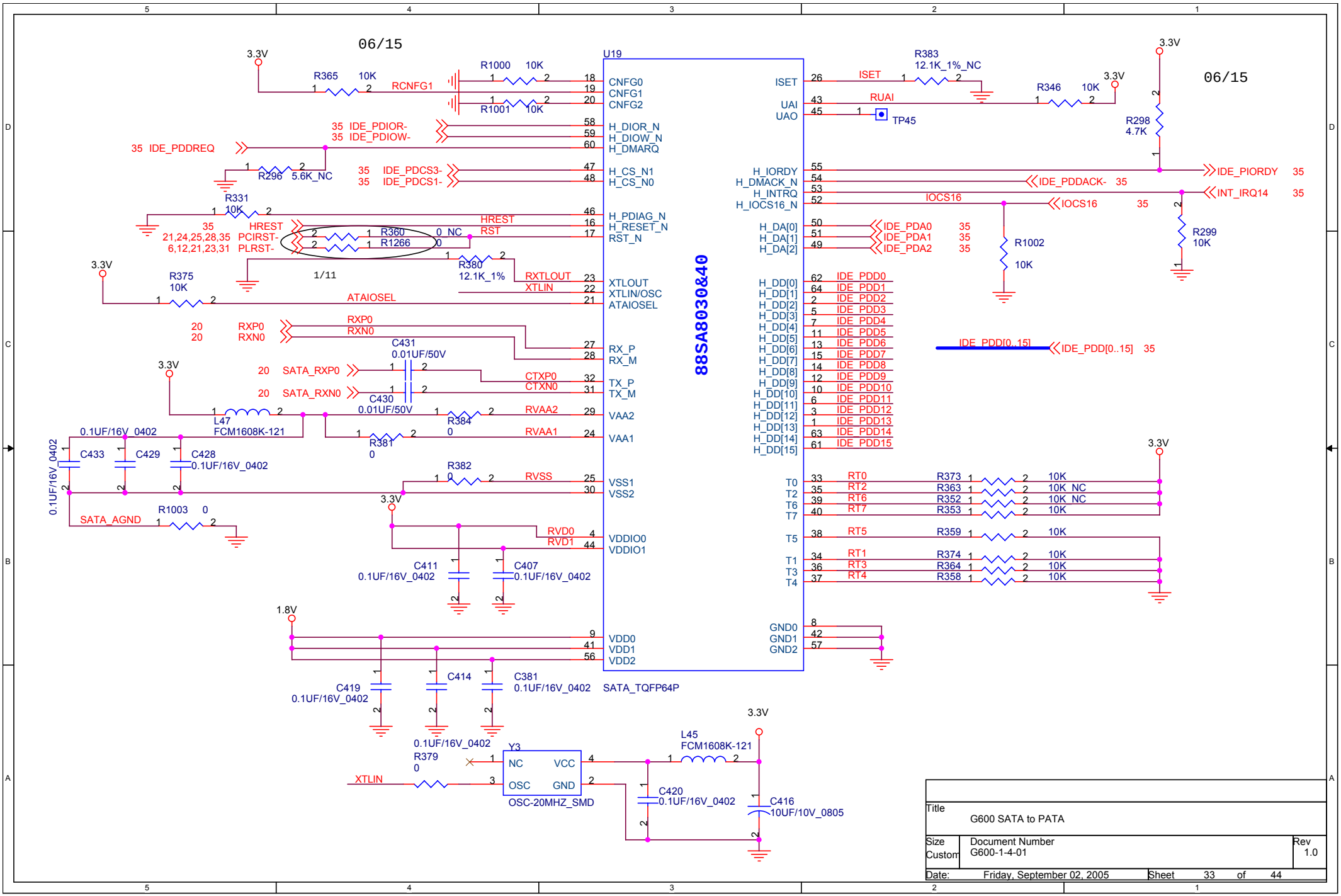
06/15
U19
88SA8030&40
SATA_TQFP64P
3.3V
1.8V
R365 10K
RCNFG1
R1000 10K
R1001 10K
CNFG0
CNFG1
CNFG2
35 IDE_PDIOR-
35 IDE_PDIOW-
H_DIOR_N
H_DIOW_N
H_DMARQ
35 IDE_PDDREQ
R296 5.6K_NC
35 IDE_PDCS3-
35 IDE_PDCS1-
H_CS_N1
H_CS_N0
R331 10K
35 HREST
21,24,25,28,35 PCIRST-
6,12,21,23,31 PLRST-
R360 0 NC
R1266 0
HREST
RST
H_PDIAG_N
H_RESET_N
RST_N
R380 12.1K_1%
RXTLOUT
XTLIN
XTLOUT
XTLIN/OSC
R375 10K
ATAIOSEL
ATAIOSEL
20 RXP0
20 RXN0
RXP0
RXN0
RX_P
RX_M
C431 0.01UF/50V
20 SATA_RXP0
20 SATA_RXN0
C430 0.01UF/50V
CTXP0
CTXN0
TX_P
TX_M
L47 FCM1608K-121
0.1UF/16V_0402
R384 0
RVAA2
R381 0
RVAA1
VAA2
VAA1
C433
C429
C428 0.1UF/16V_0402
R382 0
RVSS
VSS1
VSS2
R1003 0
SATA_AGND
RVD0
RVD1
VDDIO0
VDDIO1
C411 0.1UF/16V_0402
C407 0.1UF/16V_0402
C419 0.1UF/16V_0402
C414 0.1UF/16V_0402
C381 0.1UF/16V_0402
VDD0
VDD1
VDD2
Y3
NC
VCC
OSC
GND
OSC-20MHZ_SMD
R379 0
XTLIN
L45 FCM1608K-121
C420 0.1UF/16V_0402
C416 10UF/10V_0805
R383 12.1K_1%_NC
ISET
UAI
UAO
RUAI
TP45
R346 10K
R298 4.7K
H_IORDY
H_DMACK_N
H_INTRQ
H_IOCS16_N
IDE_PIORDY 35
IDE_PDDACK- 35
INT_IRQ14 35
IOCS16
IOCS16 35
R1002 10K
R299 10K
H_DA[0]
H_DA[1]
H_DA[2]
IDE_PDA0 35
IDE_PDA1 35
IDE_PDA2 35
H_DD[0]
H_DD[1]
H_DD[2]
H_DD[3]
H_DD[4]
H_DD[5]
H_DD[6]
H_DD[7]
H_DD[8]
H_DD[9]
H_DD[10]
H_DD[11]
H_DD[12]
H_DD[13]
H_DD[14]
H_DD[15]
IDE_PDD0
IDE_PDD1
IDE_PDD2
IDE_PDD3
IDE_PDD4
IDE_PDD5
IDE_PDD6
IDE_PDD7
IDE_PDD8
IDE_PDD9
IDE_PDD10
IDE_PDD11
IDE_PDD12
IDE_PDD13
IDE_PDD14
IDE_PDD15
IDE_PDD[0..15]
IDE_PDD[0..15] 35
T0
T2
T6
T7
T5
T1
T3
T4
RT0
RT2
RT6
RT7
RT5
RT1
RT3
RT4
R373 10K
R363 10K NC
R352 10K NC
R353 10K
R359 10K
R374 10K
R364 10K
R358 10K
GND0
GND1
GND2
Title
G600 SATA to PATA
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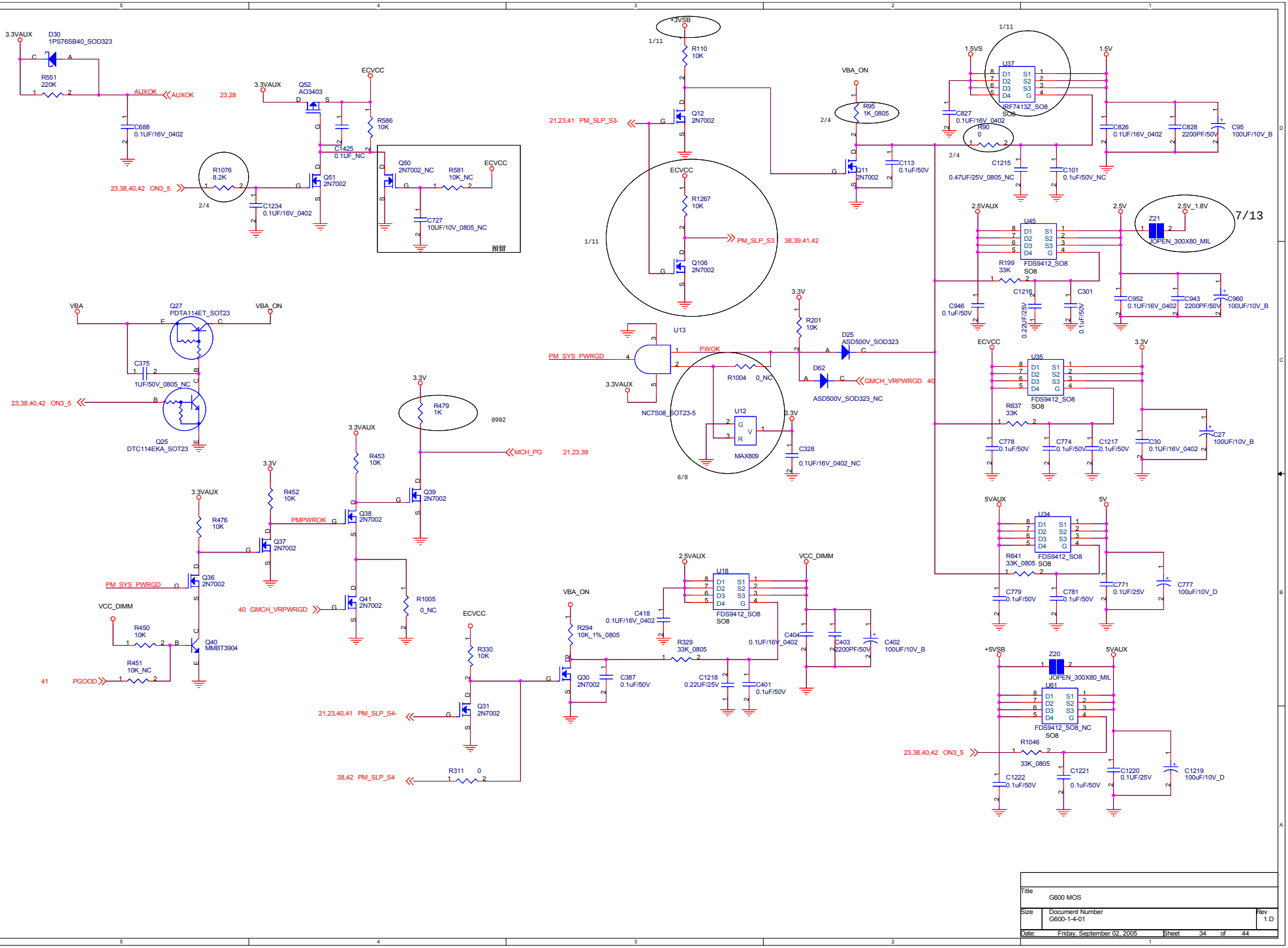
3.3VAUX
D30
1PS76SB40_SOD323
R551
220K
AUXOK
C688
0.1UF/16V_0402
23,28
Q52
AO3403
ECVCC
R586
10K
C1425
0.1UF_NC
R1076
8.2K
23,38,40,42 ON3_5
Q51
2N7002
C1234
0.1UF/16V_0402
Q50
2N7002_NC
R581
10K_NC
C727
10UF/10V_0805_NC
+3VSB
R110
10K
21,23,41 PM_SLP_S3-
Q12
2N7002
VBA_ON
R95
1K_0805
R90
0
Q11
2N7002
C113
0.1uF/50V
R1267
10K
PM_SLP_S3
38,39,41,42
Q106
2N7002
1.5VS
1.5V
U37
IRF7413Z_SO8
SO8
C827
0.1UF/16V_0402
C826
0.1UF/16V_0402
C828
2200PF/50V
C95
100UF/10V_B
C1215
0.47UF/25V_0805_NC
C101
0.1uF/50V_NC
2.5VAUX
2.5V
2.5V_1.8V
Z21
JOPEN_300X80_MIL
U45
FDS9412_SO8
R199
33K
C1216
C301
C946
0.1uF/50V
C952
0.1UF/16V_0402
C943
2200PF/50V
C960
100UF/10V_B
7/13
VBA
Q27
PDTA114ET_SOT23
VBA_ON
C375
1UF/50V_0805_NC
23,38,40,42 ON3_5
Q25
DTC114EKA_SOT23
U13
NC7S08_SOT23-5
PM_SYS_PWRGD
PWOK
3.3VAUX
R1004
0_NC
U12
MAX809
C328
0.1UF/16V_0402_NC
3.3V
R201
10K
D25
ASD500V_SOD323
D62
ASD500V_SOD323_NC
GMCH_VRPWRGD
40
ECVCC
U35
FDS9412_SO8
R637
33K
C778
0.1uF/50V
C774
0.1uF/50V
C1217
0.1uF/50V
C30
0.1UF/16V_0402
C27
100UF/10V_B
R479
1K
0902
MCH_PG
21,23,39
R453
10K
R452
10K
R476
10K
Q39
2N7002
Q38
2N7002
PMPWROK
Q37
2N7002
Q36
2N7002
PM_SYS_PWRGD
VCC_DIMM
R450
10K
Q40
MMBT3904
R451
10K_NC
41
PGOOD
40 GMCH_VRPWRGD
Q41
2N7002
R1005
0_NC
5VAUX
5V
U34
FDS9412_SO8
R641
33K_0805
C779
0.1uF/50V
C781
0.1uF/50V
C771
0.1UF/25V
C777
100uF/10V_D
2.5VAUX
VCC_DIMM
U18
FDS9412_SO8
C418
0.1UF/16V_0402
C404
0.1UF/16V_0402
C403
2200PF/50V
C402
100UF/10V_B
VBA_ON
R294
10K_1%_0805
R329
33K_0805
Q30
2N7002
C387
0.1uF/50V
C1218
0.22UF/25V
C401
0.1uF/50V
ECVCC
R330
10K
Q31
2N7002
21,23,40,41 PM_SLP_S4-
38,42 PM_SLP_S4
R311
0
+5VSB
5VAUX
Z20
JOPEN_300X80_MIL
U61
FDS9412_SO8_NC
R1046
33K_0805
23,38,40,42 ON3_5
C1222
0.1uF/50V
C1221
0.1uF/50V
C1220
0.1UF/25V
C1219
100uF/10V_D
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G600 MOS
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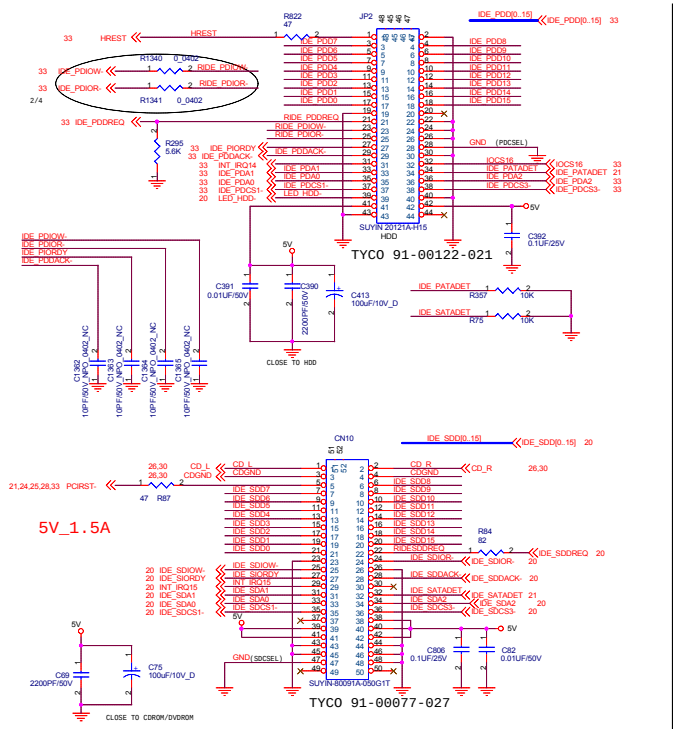

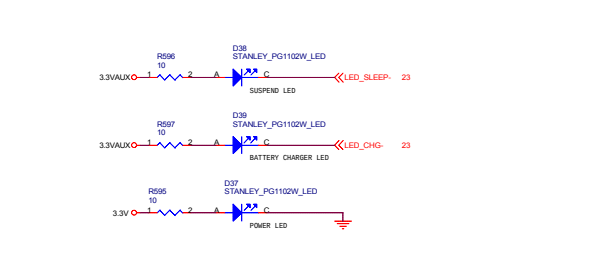

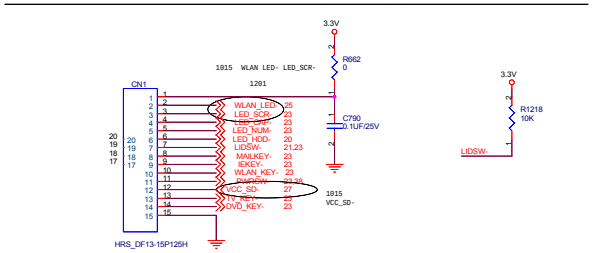

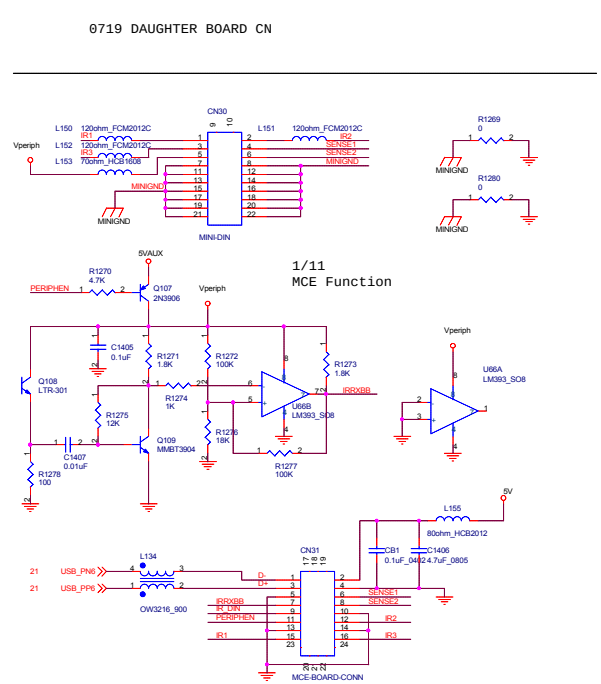

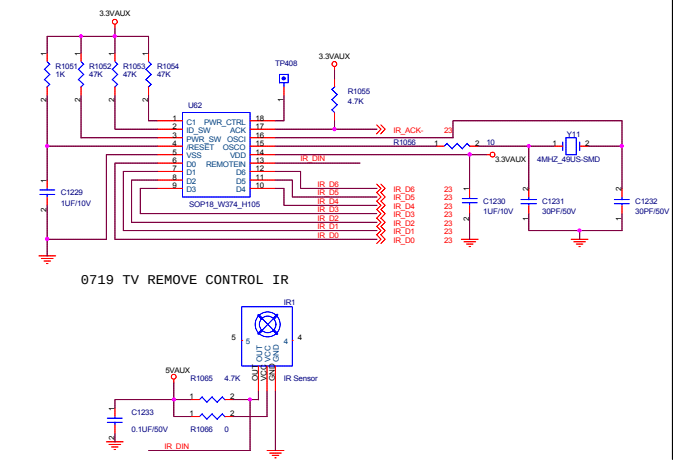

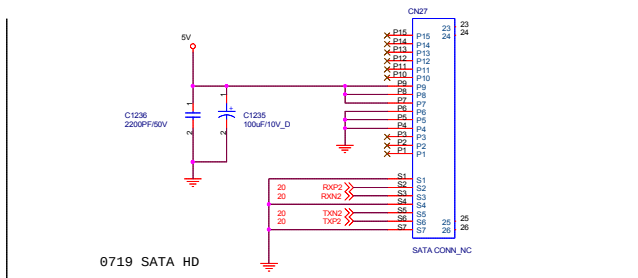

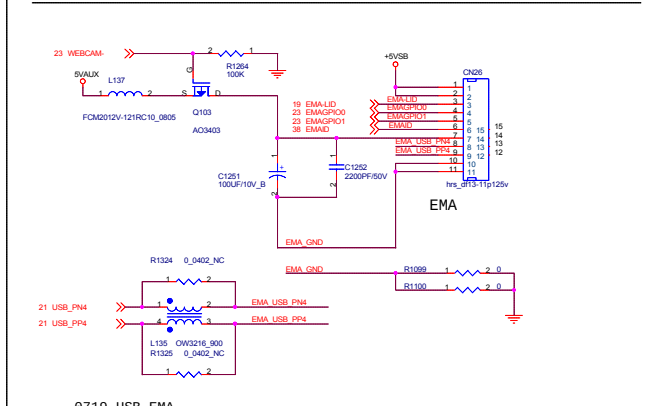

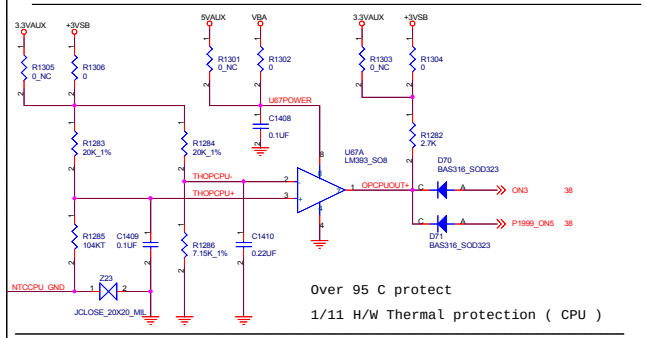

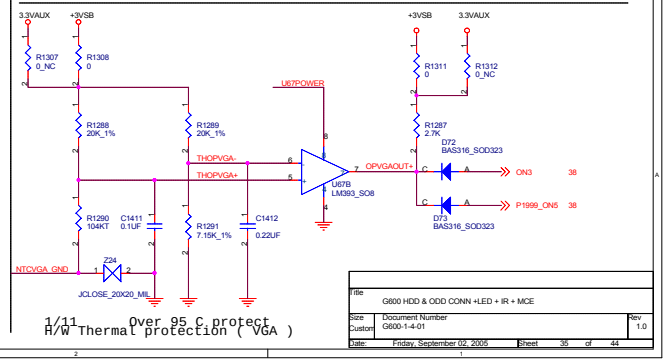

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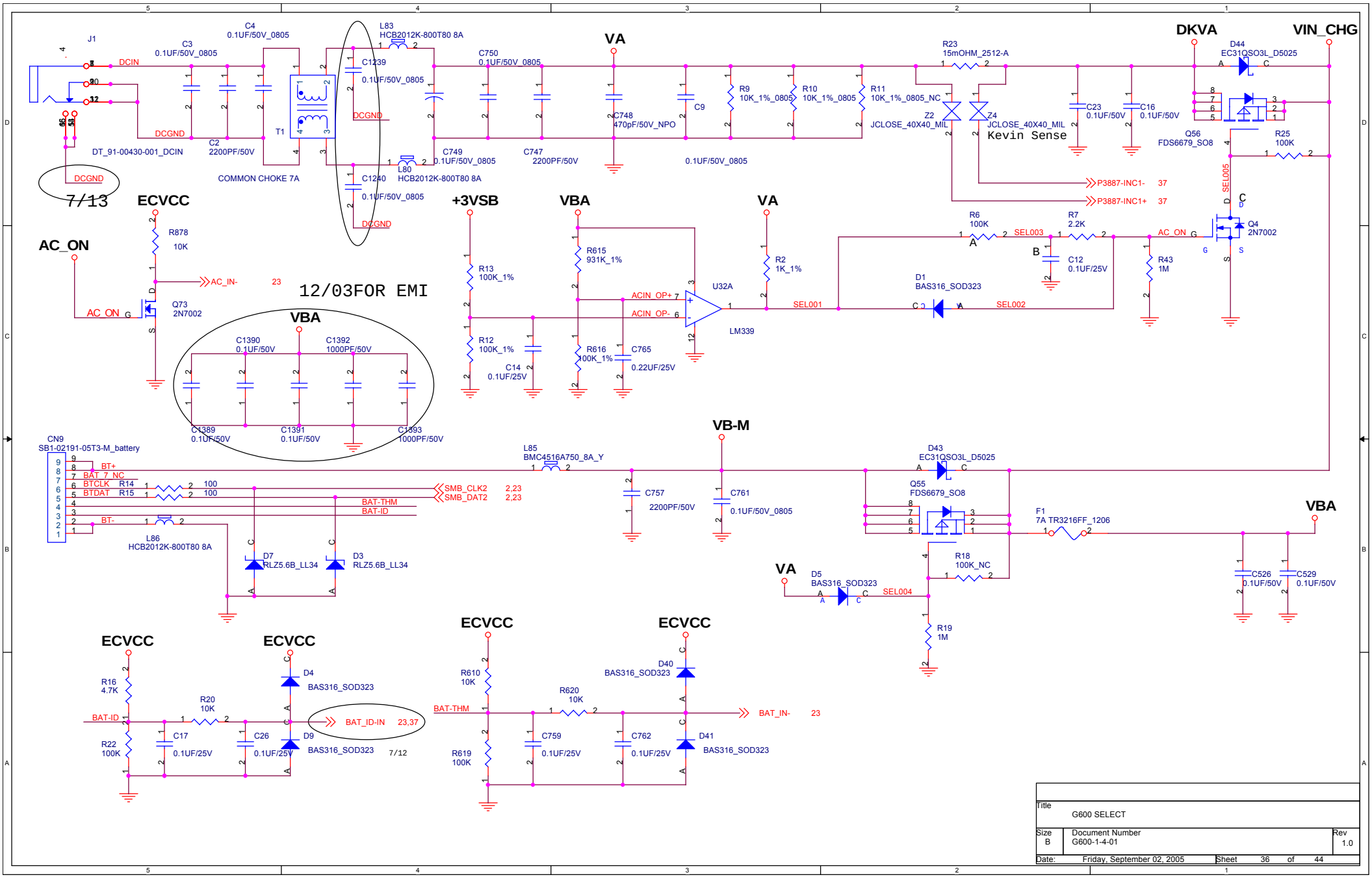
J1
DCIN
DCGND
DT_91-00430-001_DCIN
C3
0.1UF/50V_0805
C4
0.1UF/50V_0805
C2
2200PF/50V
COMMON CHOKE 7A
T1
L83
HCB2012K-800T80 8A
C1239
0.1UF/50V_0805
C1240
0.1UF/50V_0805
L80
HCB2012K-800T80 8A
C750
0.1UF/50V_0805
C749
0.1UF/50V_0805
C747
2200PF/50V
VA
C748
470PF/50V_NPO
C9
0.1UF/50V_0805
R9
10K_1%_0805
R10
10K_1%_0805
R11
10K_1%_0805_NC
R23
15mOHM_2512-A
Z2
JCLOSE_40X40_MIL
Z4
JCLOSE_40X40_MIL
Kevin Sense
C23
0.1UF/50V
C16
0.1UF/50V
DKVA
VIN_CHG
D44
EC31QSO3L_D5025
Q56
FDS6679_SO8
R25
100K
SEL005
P3887-INC1-
37
P3887-INC1+
37
7/13
ECVCC
R878
10K
AC_ON
AC_IN-
23
Q73
2N7002
12/03FOR EMI
+3VSB
VBA
R13
100K_1%
R12
100K_1%
C14
0.1UF/25V
R615
931K_1%
R616
100K_1%
C765
0.22UF/25V
ACIN_OP+
ACIN_OP-
U32A
LM339
R2
1K_1%
SEL001
R6
100K
SEL003
R7
2.2K
C12
0.1UF/25V
D1
BAS316_SOD323
SEL002
R43
1M
Q4
2N7002
C1390
0.1UF/50V
C1392
1000PF/50V
C1389
0.1UF/50V
C1391
0.1UF/50V
C1393
1000PF/50V
CN9
SB1-02191-05T3-M_battery
BT+
BAT_7_NC
BTCLK
BTDAT
R14
R15
100
SMB_CLK2
2,23
SMB_DAT2
2,23
BAT-THM
BAT-ID
BT-
L86
HCB2012K-800T80 8A
L85
BMC4516A750_8A_Y
VB-M
C757
2200PF/50V
C761
0.1UF/50V_0805
D43
EC31QSO3L_D5025
Q55
FDS6679_SO8
F1
7A TR3216FF_1206
VBA
C526
0.1UF/50V
C529
0.1UF/50V
D7
RLZ5.6B_LL34
D3
RLZ5.6B_LL34
VA
D5
BAS316_SOD323
SEL004
R18
100K_NC
R19
1M
ECVCC
R16
4.7K
R20
10K
R22
100K
BAT-ID
C17
0.1UF/25V
C26
0.1UF/25V
D4
BAS316_SOD323
D9
BAS316_SOD323
BAT_ID-IN
23,37
7/12
R610
10K
R620
10K
R619
100K
BAT-THM
C759
0.1UF/25V
C762
0.1UF/25V
D40
BAS316_SOD323
D41
BAS316_SOD323
BAT_IN-
23
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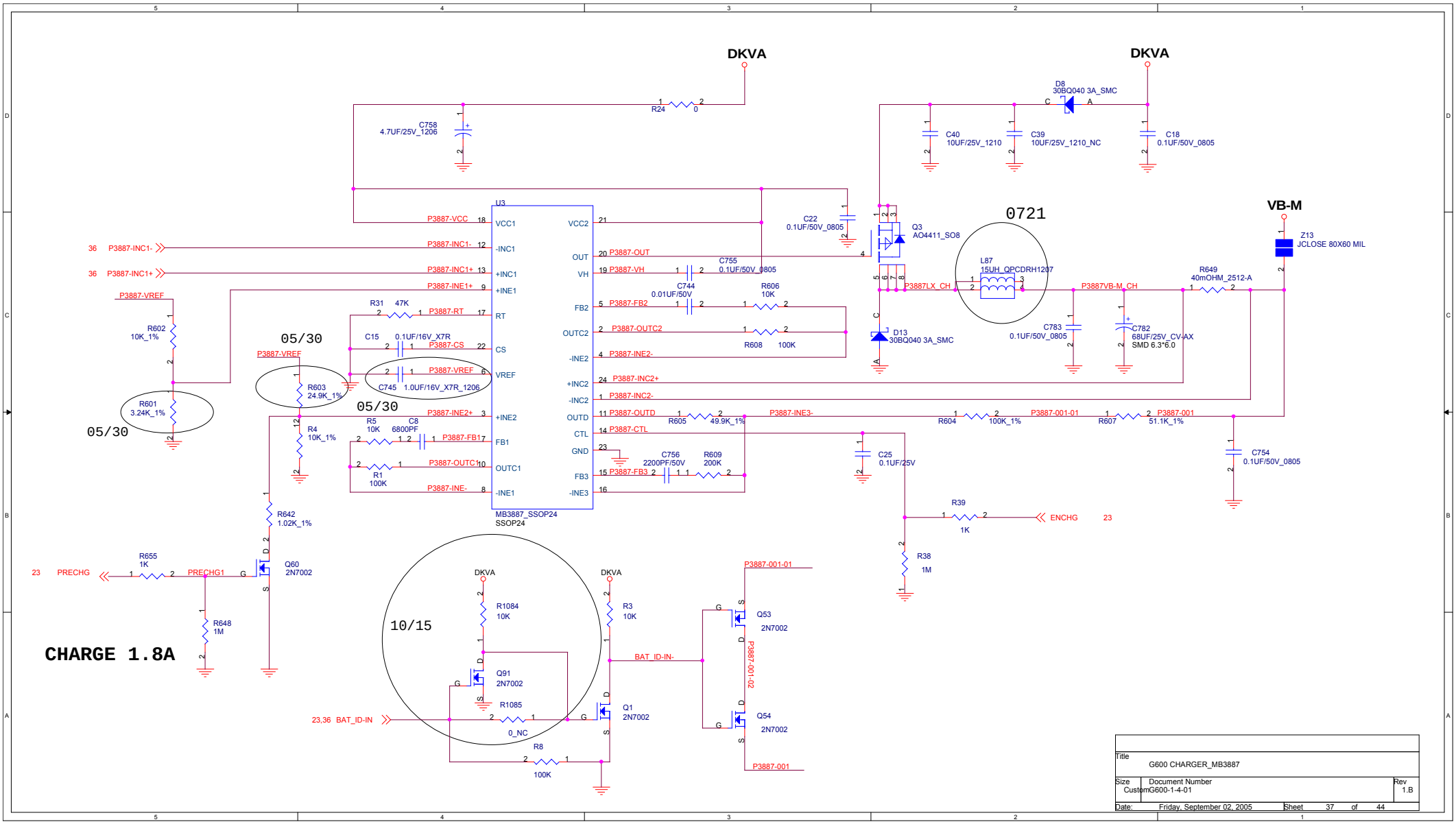
DKVA
DKVA
R24 0
C758 4.7UF/25V_1206
D8 30BQ040 3A_SMC
C40 10UF/25V_1210
C39 10UF/25V_1210_NC
C18 0.1UF/50V_0805
U3
MB3887_SSOP24
SSOP24
P3887-VCC
P3887-INC1-
P3887-INC1+
P3887-INE1+
P3887-RT
P3887-CS
P3887-VREF
P3887-INE2+
P3887-OUTC
P3887-INE-
P3887-OUT
P3887-VH
P3887-FB2
P3887-OUTC2
P3887-INE2-
P3887-INC2+
P3887-INC2-
P3887-OUTD
P3887-CTL
P3887-FB3
P3887-INE3-
C22 0.1UF/50V_0805
C755 0.1UF/50V_0805
C744 0.01UF/50V
R606 10K
R608 100K
R605 49.9K_1%
C756 2200PF/50V
R609 200K
C25 0.1UF/25V
0721
Q3 AO4411_SO8
L87 15UH_QPCDRH1207
P3887LX_CH
P3887VB-M_CH
D13 30BQ040 3A_SMC
C783 0.1UF/50V_0805
C782 68UF/25V_CV-AX SMD 6.3*6.0
R649 40mOHM_2512-A
VB-M
Z13 JCLOSE 80X60 MIL
R604 100K_1%
R607 51.1K_1%
P3887-001-01
P3887-001
C754 0.1UF/50V_0805
R602 10K_1%
R601 3.24K_1%
R603 24.9K_1%
R31 47K
C15 0.1UF/16V_X7R
C745 1.0UF/16V_X7R_1206
R4 10K_1%
R5 10K
C8 6800PF
R1 100K
05/30
05/30
05/30
R642 1.02K_1%
R655 1K
Q60 2N7002
R648 1M
R39 1K
R38 1M
ENCHG
PRECHG
PRECHG1
CHARGE 1.8A
10/15
R1084 10K
Q91 2N7002
R1085 0_NC
R8 100K
R3 10K
Q1 2N7002
BAT_ID-IN
BAT_ID-IN-
Q53 2N7002
Q54 2N7002
P3887-001-02
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G600 CHARGER_MB3887
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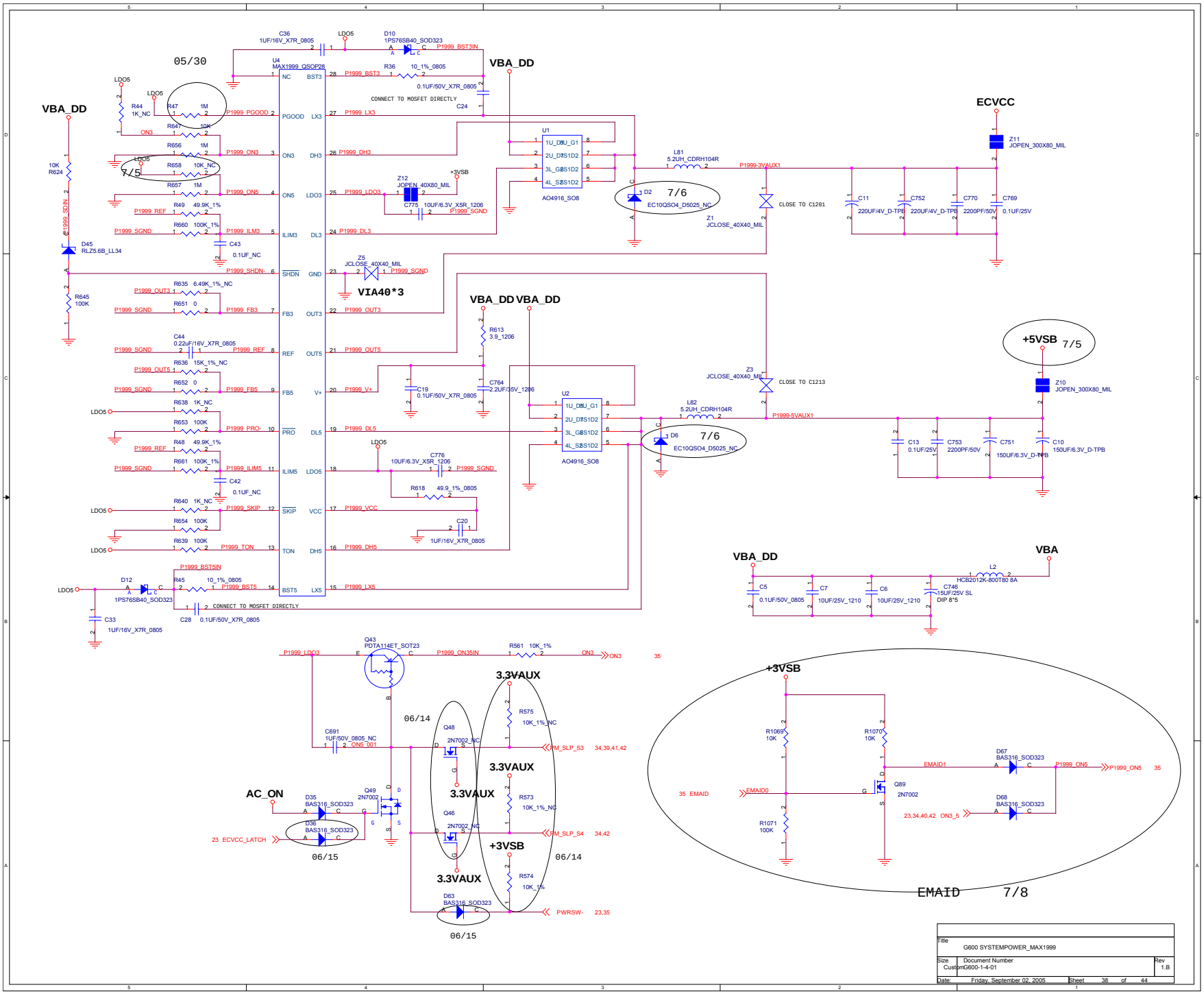
05/30
VBA_DD
ECVCC
+5VSB 7/5
VBA
+3VSB
3.3VAUX
AC_ON
06/14
06/15
7/5
7/6
VIA40*3
EMAID 7/8
U4 MAX1999_QSOP28
U1 AO4916_SO8
U2 AO4916_SO8
Z1 JCLOSE_40X40_MIL
Z3 JCLOSE_40X40_MIL
Z5 JCLOSE_40X40_MIL
Z10 JOPEN_300X80_MIL
Z11 JOPEN_300X80_MIL
Z12 JOPEN_40X80_MIL
D2 EC10QSO4_D5025_NC
D6 EC10QSO4_D5025_NC
D10 1PS76SB40_SOD323
D12 1PS76SB40_SOD323
D45 RLZ5.6B_LL34
Q43 PDTA114ET_SOT23
Q48 2N7002_NC
Q46 2N7002_NC
Q49 2N7002
Q89 2N7002
D35 BAS316_SOD323
D36 BAS316_SOD323
D63 BAS316_SOD323
D67 BAS316_SOD323
D68 BAS316_SOD323
L81 5.2UH_CDRH104R
L82 5.2UH_CDRH104R
L2 HCB2012K-800T80 8A
CONNECT TO MOSFET DIRECTLY
CLOSE TO C1201
CLOSE TO C1213
Title
G600 SYSTEMPOWER_MAX1999
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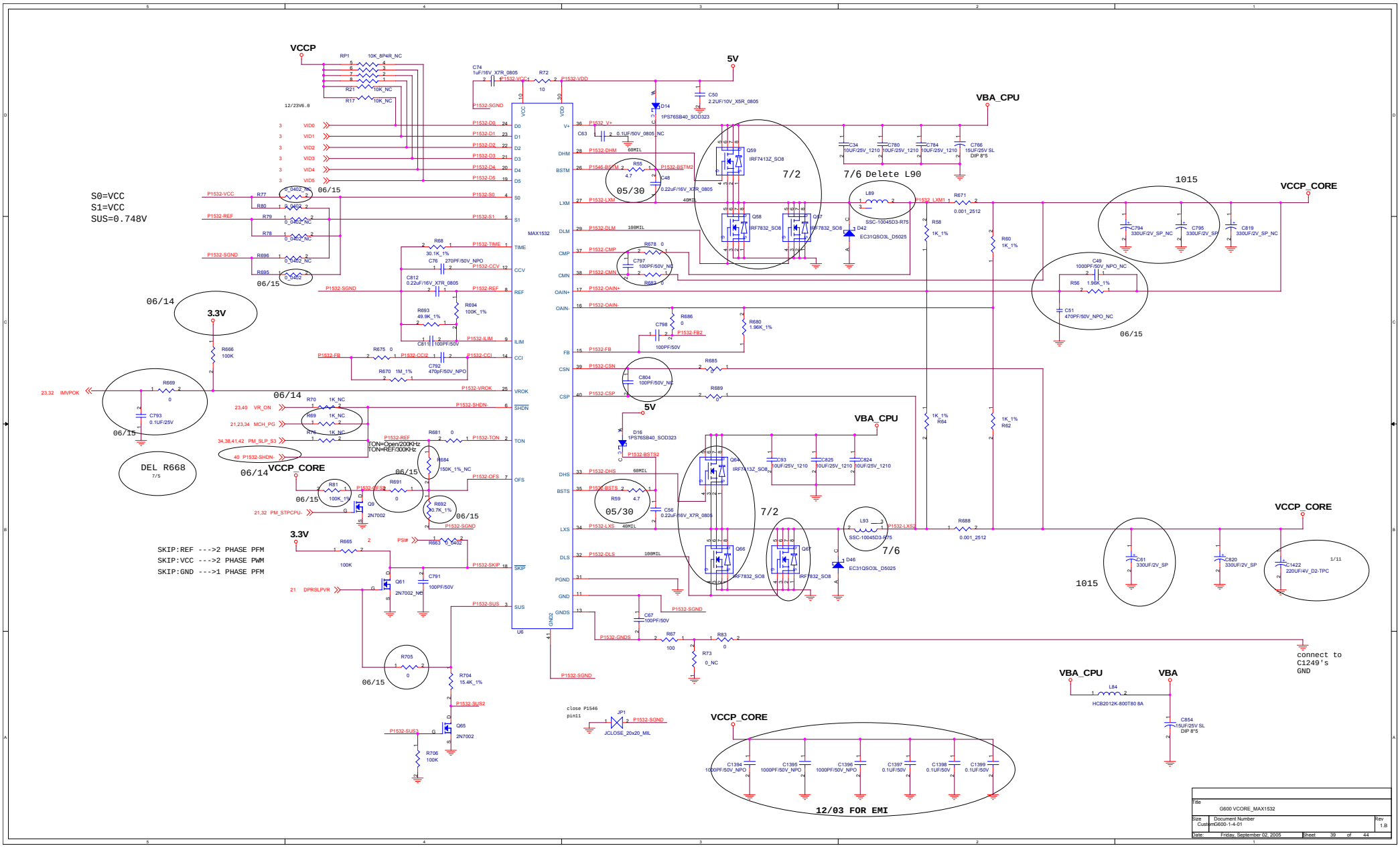

Title	G600 VCORE_MAX1532
Size	Custom
Document Number	G600-1-4-01
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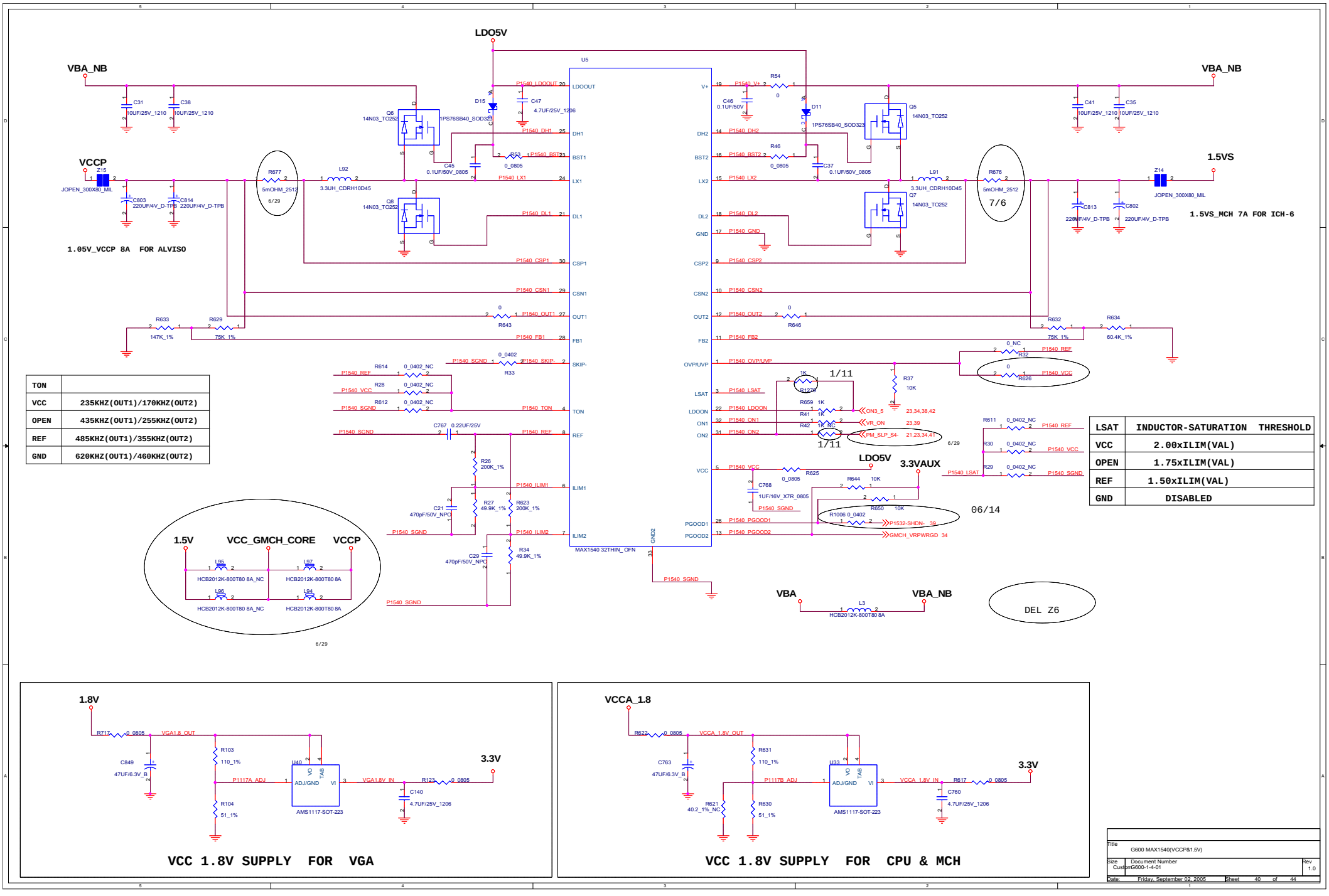
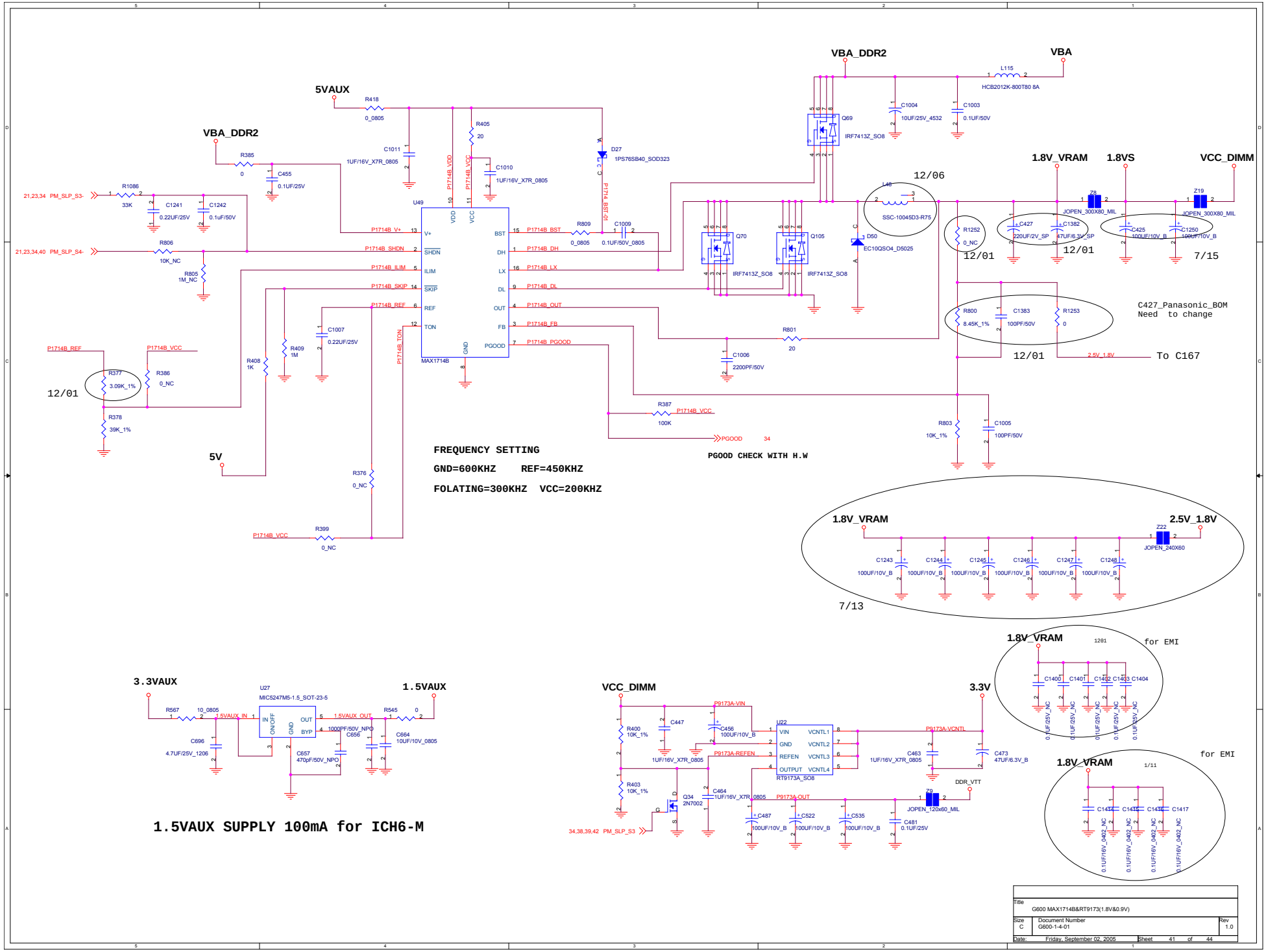

LDO5V
VBA_NB
VCCP
1.05V_VCCP 8A FOR ALVISO
1.5VS
1.5VS_MCH 7A FOR ICH-6
U5
MAX1540 32THIN_OFN
TON
VCC
235KHZ(OUT1)/170KHZ(OUT2)
OPEN
435KHZ(OUT1)/255KHZ(OUT2)
REF
485KHZ(OUT1)/355KHZ(OUT2)
GND
620KHZ(OUT1)/460KHZ(OUT2)
LSAT
INDUCTOR-SATURATION THRESHOLD
VCC
2.00xILIM(VAL)
OPEN
1.75xILIM(VAL)
REF
1.50xILIM(VAL)
GND
DISABLED
1.5V
VCC_GMCH_CORE
VCCP
HCB2012K-800T80 8A_NC
HCB2012K-800T80 8A
3.3VAUX
VBA
DEL Z6
1.8V
3.3V
AMS1117-SOT-223
VCC 1.8V SUPPLY FOR VGA
VCCA_1.8
VCC 1.8V SUPPLY FOR CPU & MCH
G600 MAX1540(VCCP&1.5V)
Friday, September 02, 2005



VBA_DDR2
VBA
L115
HCB2012K-800T80 8A
5VAUX
R418
0_0805
R405
20
C1011
1UF/16V_X7R_0805
C1010
1UF/16V_X7R_0805
D27
1PS76SB40_SOD323
Q69
IRF7413Z_SO8
C1004
10UF/25V_4532
C1003
0.1UF/50V
1.8V_VRAM
1.8VS
VCC_DIMM
12/06
L48
SSC-10045D3-R75
Z8
JOPEN_300X80_MIL
Z19
JOPEN_300X80_MIL
C427
220UF/2V_SP
C1382
47UF/6.3V_SP
C425
100UF/10V_B
C1250
100UF/10V_B
7/15
R1252
0_NC
12/01
12/01
R385
0
C455
0.1UF/25V
21,23,34 PM_SLP_S3-
R1086
33K
C1241
0.22UF/25V
C1242
0.1uF/50V
21,23,34,40 PM_SLP_S4-
R806
10K_NC
R805
1M_NC
U49
MAX1714B
P1714B_V+
P1714B_SHDN
P1714B_ILIM
P1714B_SKIP
P1714B_REF
P1714B_TON
P1714B_VDD
P1714B_VCC
P1714B_BST
P1714B_DH
P1714B_LX
P1714B_DL
P1714B_OUT
P1714B_FB
P1714B_PGOOD
R809
0_0805
C1009
0.1UF/50V_0805
Q70
IRF7413Z_SO8
Q105
IRF7413Z_SO8
D50
EC10QSO4_D5025
R800
8.45K_1%
C1383
100PF/50V
R1253
0
C427_Panasonic_BOM
Need to change
12/01
2.5V_1.8V
To C167
R801
20
C1006
2200PF/50V
C1007
0.22UF/25V
R409
1M
R408
1K
P1714B_REF
P1714B_VCC
R377
3.09K_1%
R386
0_NC
12/01
R378
39K_1%
R387
100K
P1714B_VCC
PGOOD
34
PGOOD CHECK WITH H.W
R803
10K_1%
C1005
100PF/50V
5V
R376
0_NC
P1714B_VCC
R399
0_NC
FREQUENCY SETTING
GND=600KHZ REF=450KHZ
FOLATING=300KHZ VCC=200KHZ
1.8V_VRAM
2.5V_1.8V
Z22
JOPEN_240X60
C1243
C1244
C1245
C1246
C1247
C1248
100UF/10V_B
7/13
1.8V_VRAM
1201
for EMI
C1400
C1401
C1402
C1403
C1404
0.1UF/25V_NC
3.3VAUX
1.5VAUX
U27
MIC5247M5-1.5_SOT-23-5
R567
10_0805
1.5VAUX_IN
1.5VAUX_OUT
R545
0
C696
4.7UF/25V_1206
C657
470pF/50V_NPO
C656
1000PF/50V_NPO
C664
10UF/10V_0805
1.5VAUX SUPPLY 100mA for ICH6-M
VCC_DIMM
3.3V
P9173A-VIN
P9173A-REFEN
P9173A-VCNTL
P9173A-OUT
U22
RT9173A_SO8
R400
10K_1%
C447
1UF/16V_X7R_0805
C456
100UF/10V_B
C463
1UF/16V_X7R_0805
C473
47UF/6.3V_B
R403
10K_1%
Q34
2N7002
C464
1UF/16V_X7R_0805
C487
100UF/10V_B
C522
100UF/10V_B
C535
100UF/10V_B
C481
0.1UF/25V
DDR_VTT
Z9
JOPEN_120x60_MIL
34,38,39,42 PM_SLP_S3
1.8V_VRAM
1/11
for EMI
C1414
C1415
C1416
C1417
0.1UF/16V_0402_NC
Title
G600 MAX1714B&RT9173(1.8V&0.9V)
Size
C
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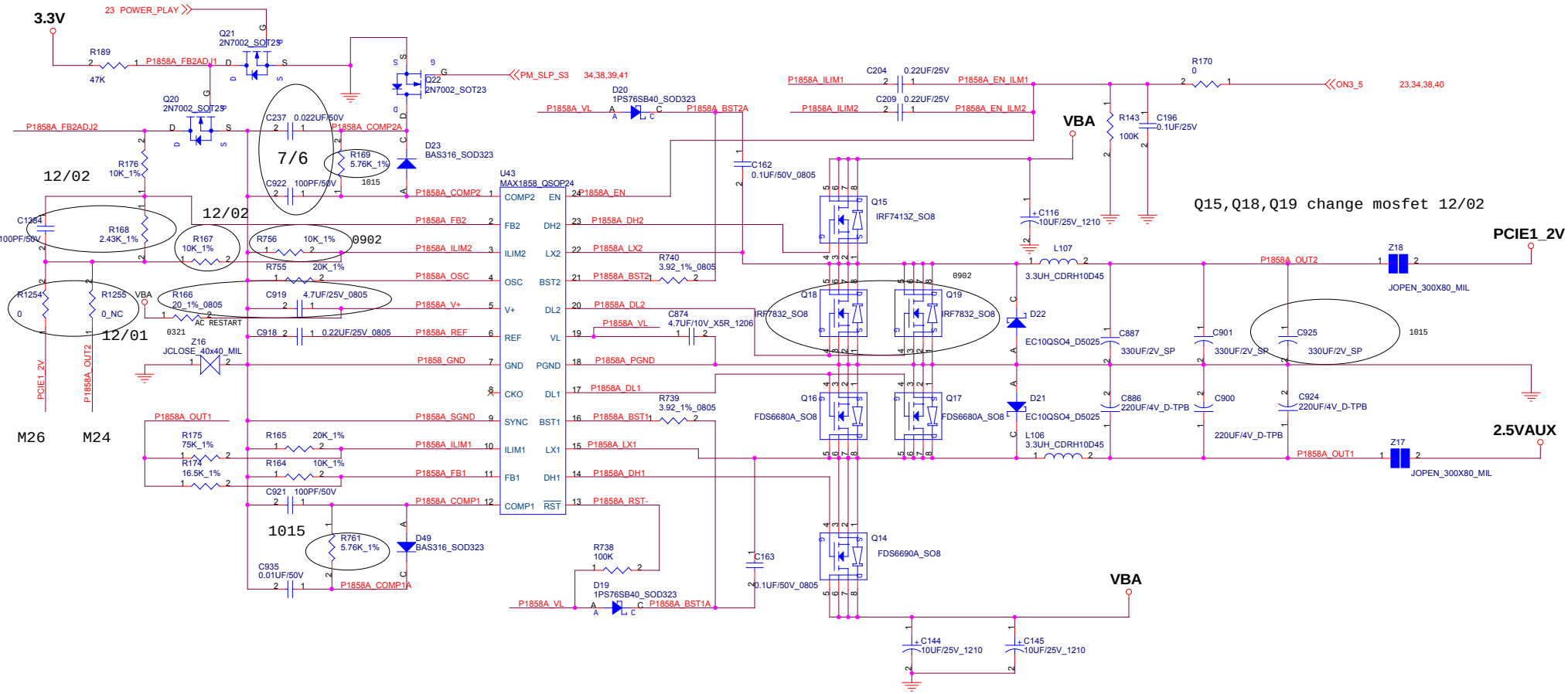

Title	G600 MAX1858(1.2V&2.5V)	
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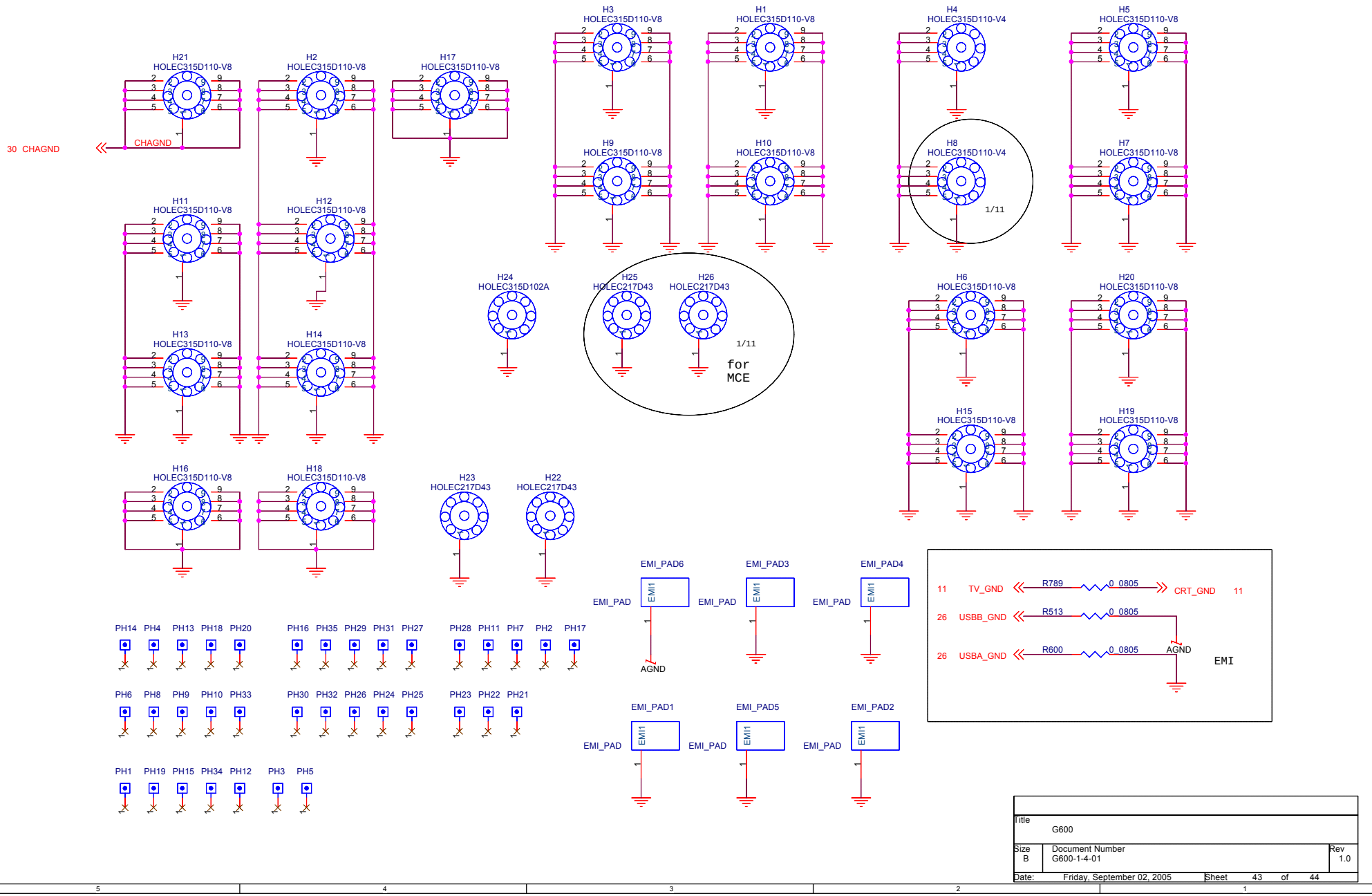

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A.0 INITIAL 0519A
B.0 UPDATA 0719B
C.0 CHANGE ALC202 TO ALC655
D.0 MODIFILY
E.0 1.Add MCE function
    2.H/W Thermal protection (VGA&CPU)
F.0 1.CHANGE FAN CONTROL IC
    2.GBLAN MODIFILY
F.A 1.INSERT ADAPTER WILL RESTART CHANGE R166,C919
F.B 1.Add Speaker in and Micphone in Auto Detect
1.0 1.change MLB Ver F TO Ver 1.0
1.A 1.Add Q'com usb buletooth function.
    2.add panel ID select.
1.B RESISTOR AND CAPACITANCE CHANGE R601,R603,C745,R47,R55,R59
1.C ADD U12,DEL R1004, S3 USB2.0 FAIL
1.D DOS-XP BLACK SCREEN

Title	<Title>	
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