

<http://hobi-elektronika.net>

DIABLO 13.3"

SI Build

2007.10.11

DATE	CHANGE NO.	REV

DRAWER	EE	DATE	POWER	DATE	INVENTEC			
DESIGN					TITLE			
CHECK					DIABLO			
RESPONSIBLE								
SIZE = 3					SIZE	CODE	DOC. NUMBER	REV
FILE NAME : XXXX-XXXXXX-XX					A3	CS	<i>Model No</i>	AXI
P/N	XXXXXXXXXXXX				SHEET 1 OF 61			

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57- nVIDIA NB8MGS-3

58- nVIDIA NB8MGS-4

59- nVIDIA NB8MGS-5

60- VRAM-1

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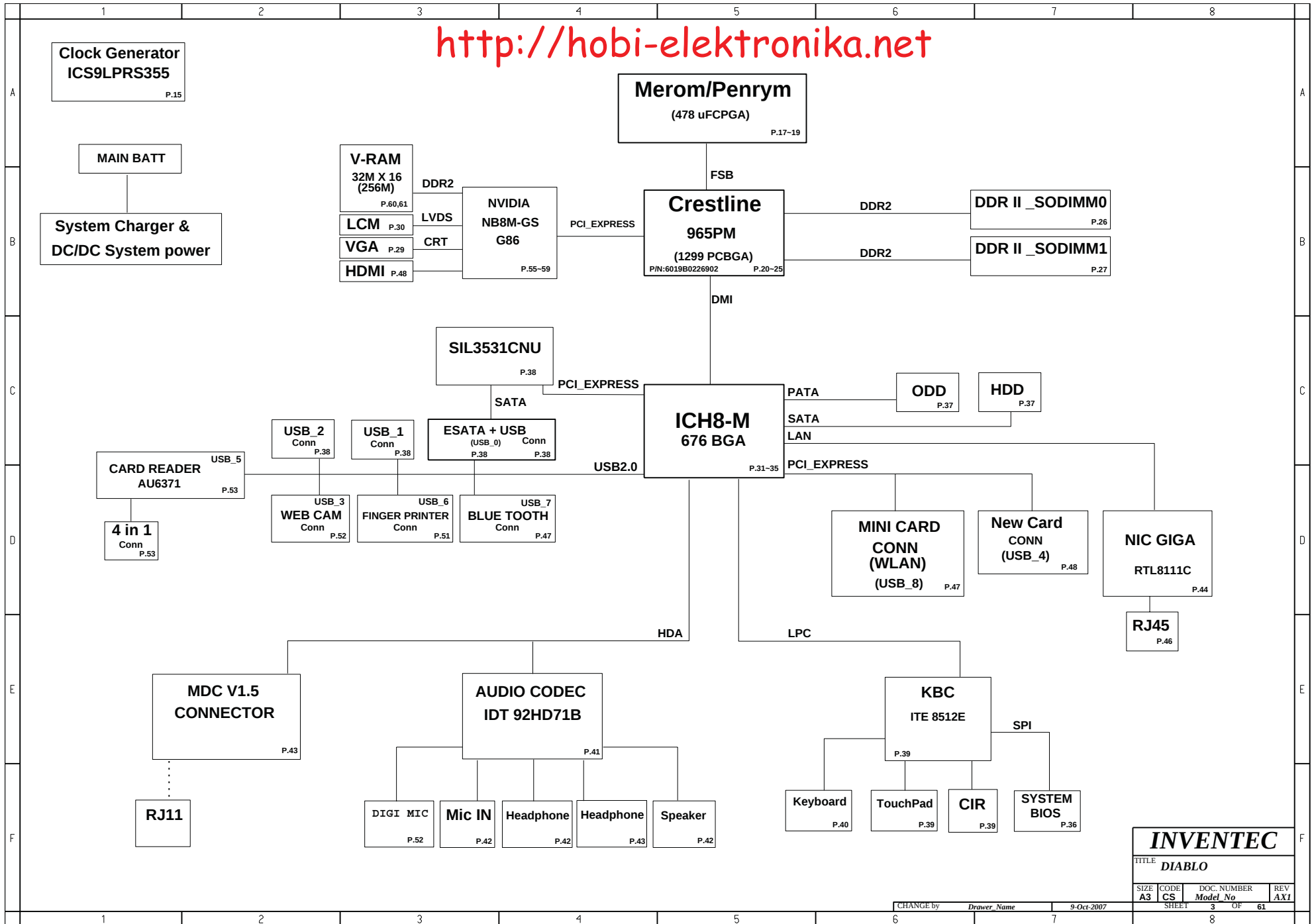
INVENTEC

TITLE
DIABLO

SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI
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CHANGE by *Drawn Name* 9-Oct-2007

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INVENTEC

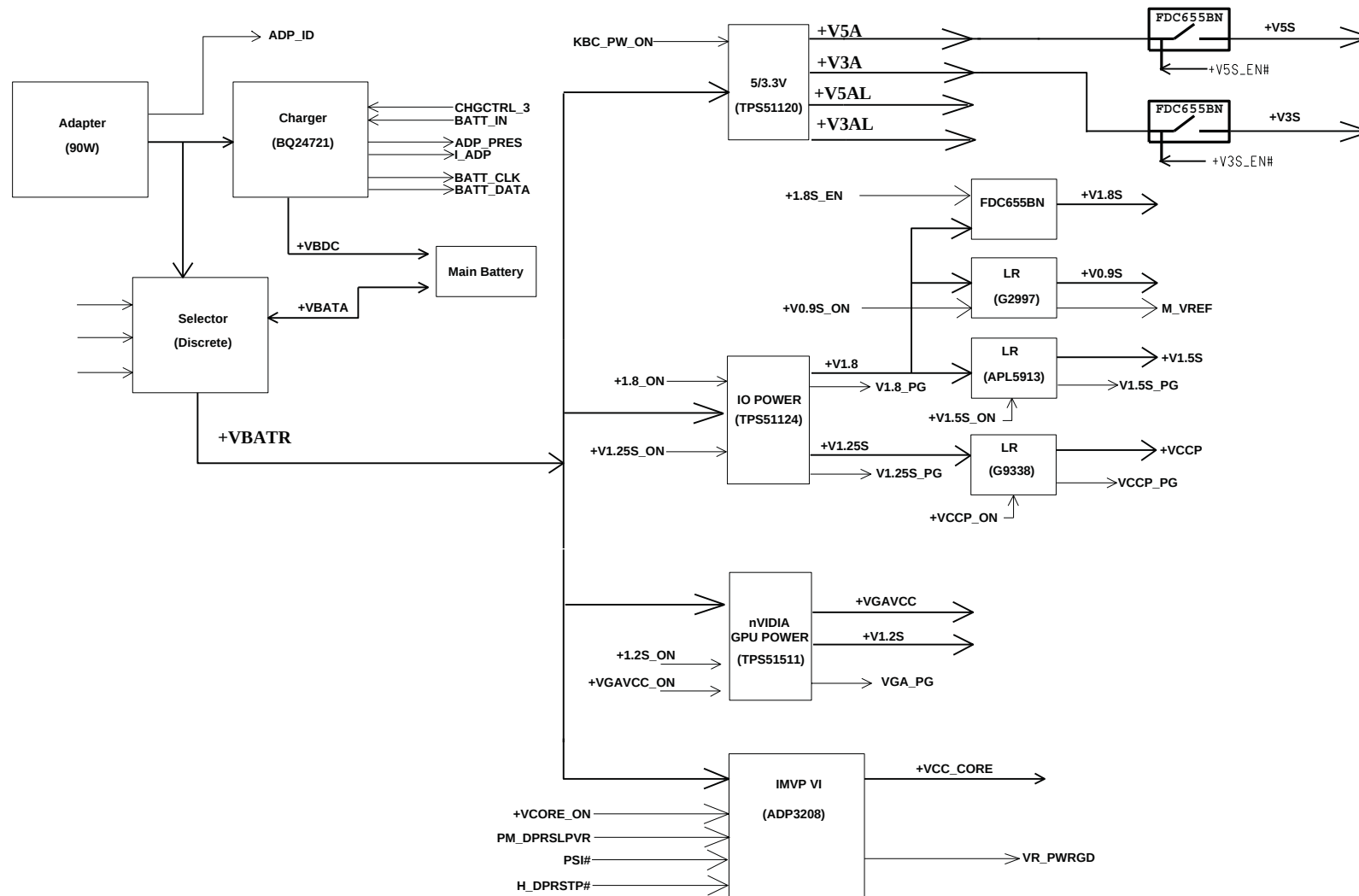
TITLE
DIABLO

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI

CHANGE by *Drawn Name* 9-Oct-2007

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INVENTEC

TITLE
DIABLO

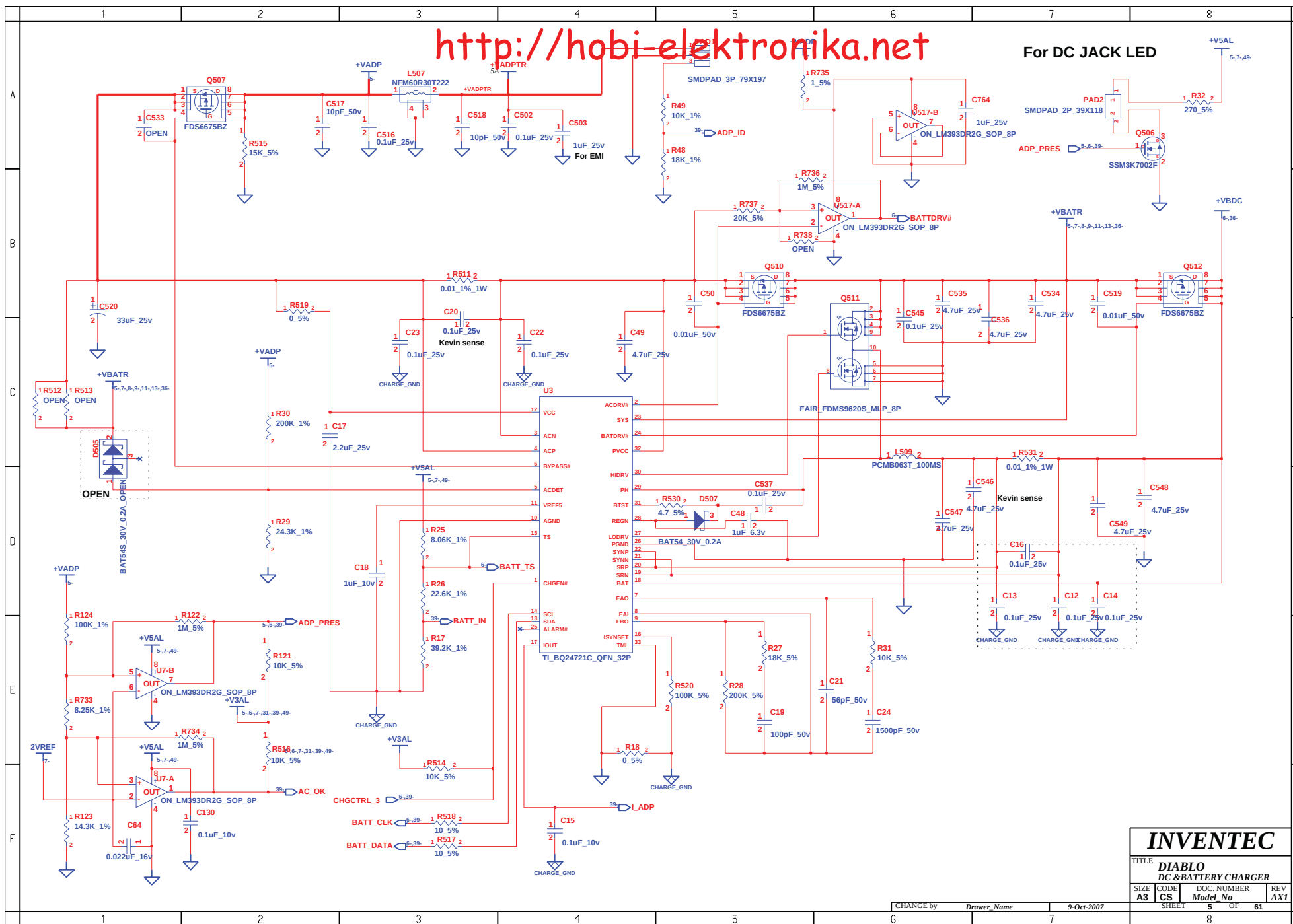
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI

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For DC JACK LED



INVENTEC

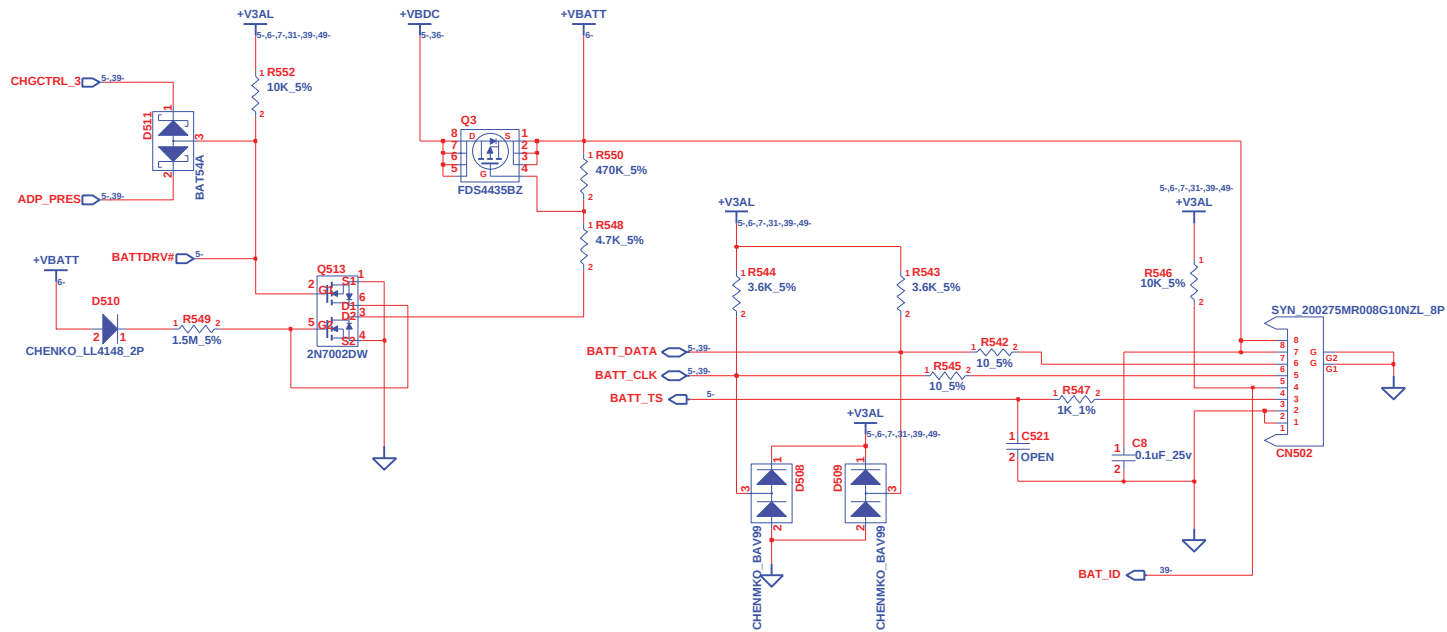
TITLE
DIABLO
DC & BATTERY CHARGER

SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI
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CHANGE by *Drawn Name* 9-Oct-2007

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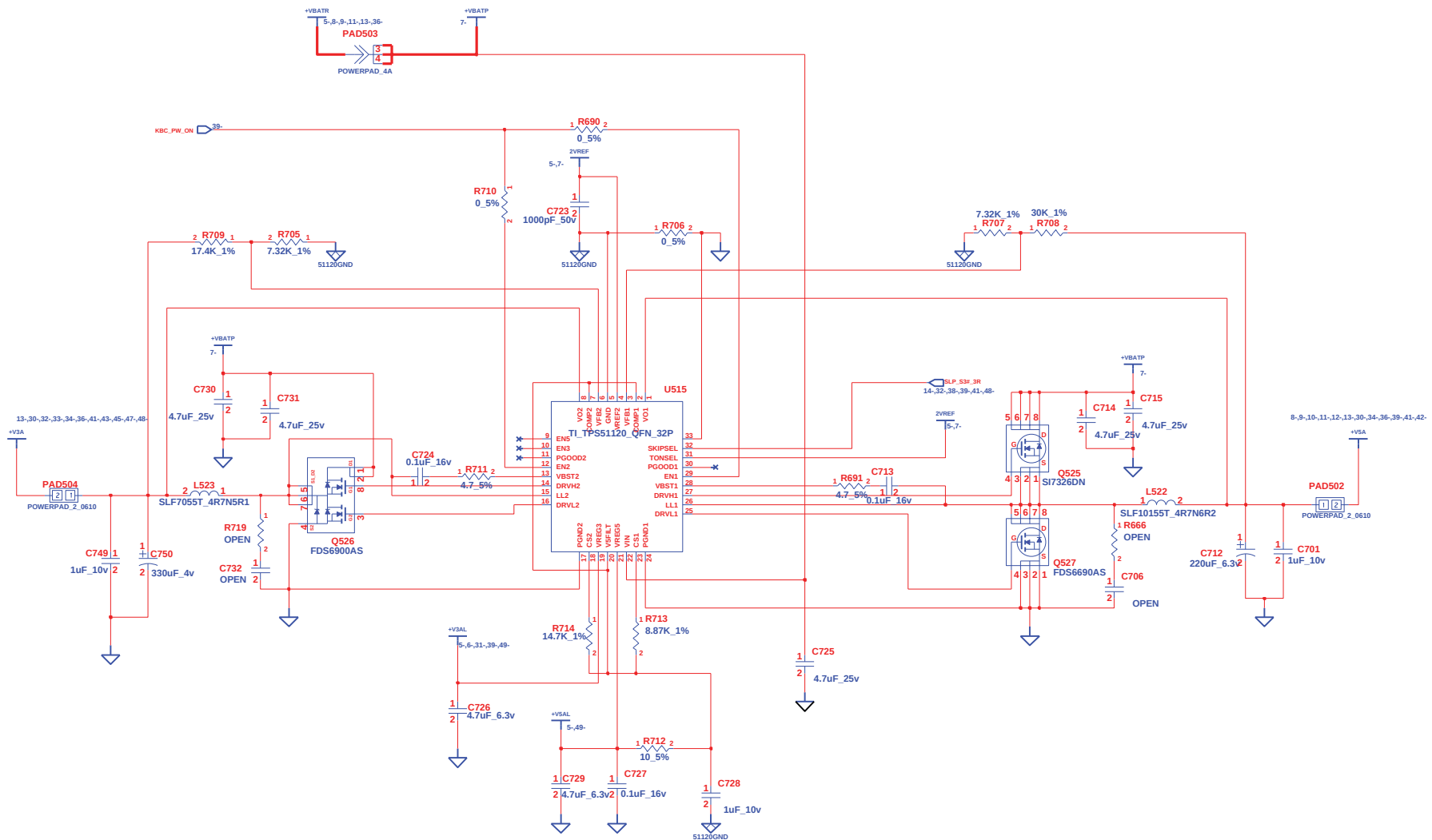
INVENTEC

TITLE DIABLO BATTERY CONN			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI

CHANGE by *Drawn Name* 9-Oct-2007

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INVENTEC

TITLE
DIABLO
SYSTEM POWER(3V/5V/12V)

SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI
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CHANGE by *Drawer Name* 9-Oct-2007

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TITLE			
DIABLO			
SYSTEM POWER(+V1.8/+V1.25S)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AX1
SHEET		8	OF 61

CHANGE by	<i>Drawer Name</i>	9-Oct-2007
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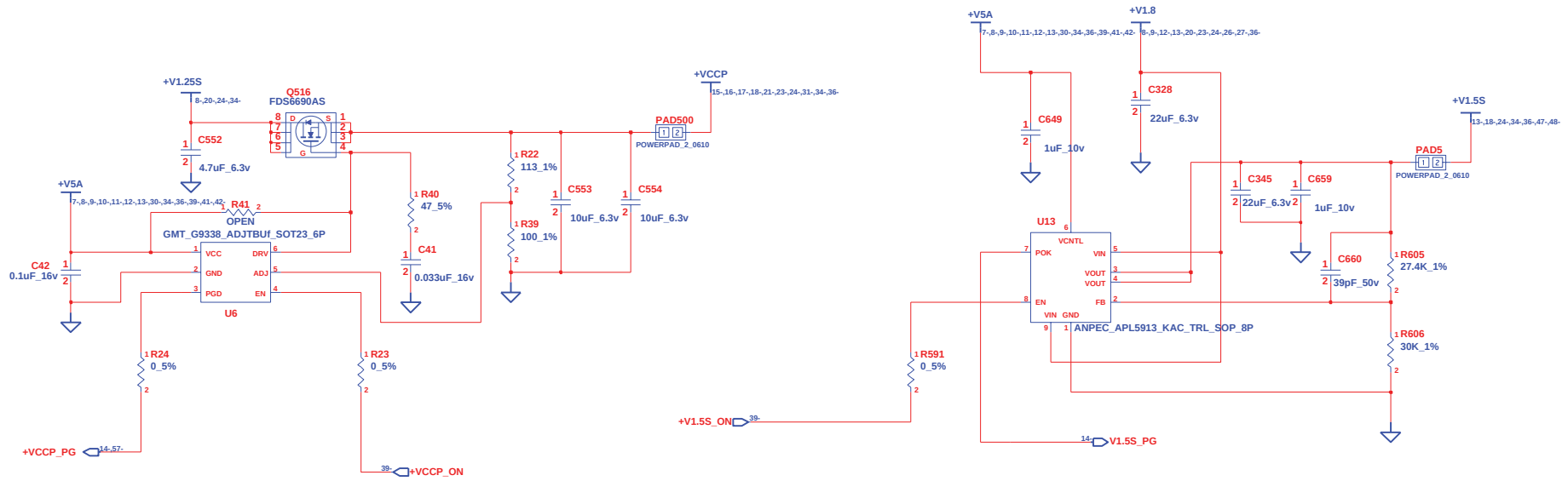
CS	Model No
SHEET	8 OF 61

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TITLE			
DIABLO GRAPHIC POWER (+VGFX_CORE)			
SIZE	CODE	DOC. NUMBER	REV.
A3	CS	Model No	AX1

CS Model No
SHEET 9 OF 61

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	R579	R576	R578	R577
G9338	0 ohm	OPEN	OPEN	0 ohm
SC339	OPEN	0 ohm	0 ohm	OPEN

INVENTEC

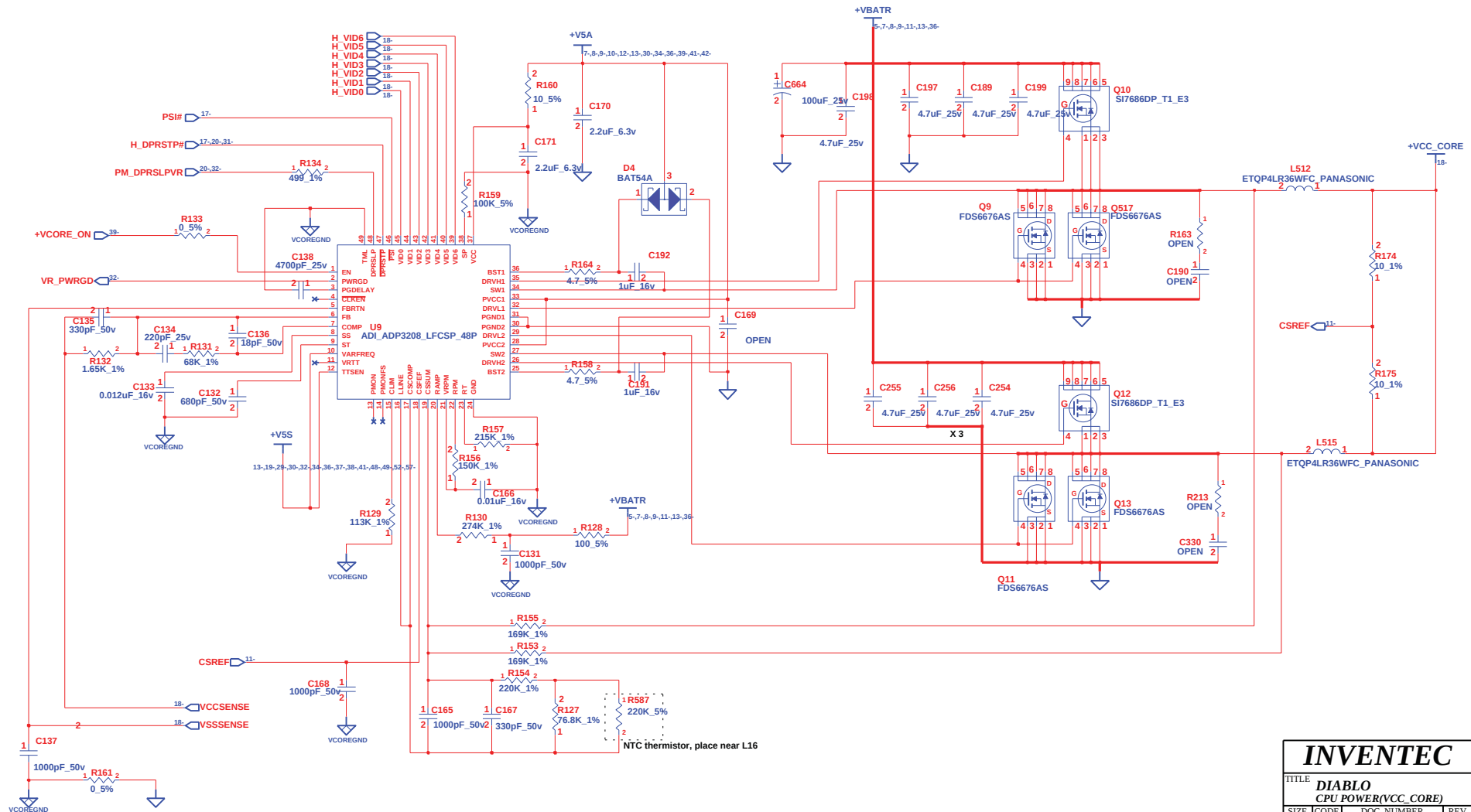
TITLE
DIABLO
SYSTEM POWER(+VCCP/+V1.5S)

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI

CHANGE by *Drawn Name* 9-Oct-2007

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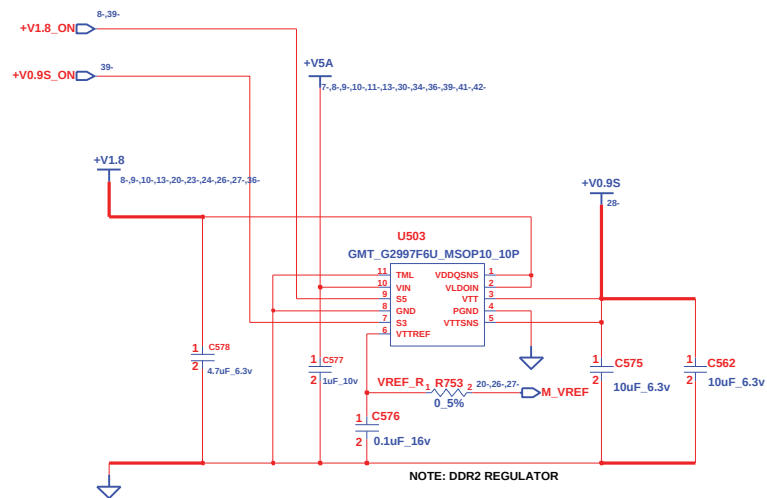
TITLE
DIABLO
CPU POWER(VCC_CORE)

SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI
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CHANGE by *Drawn Name* 9-Oct-2007

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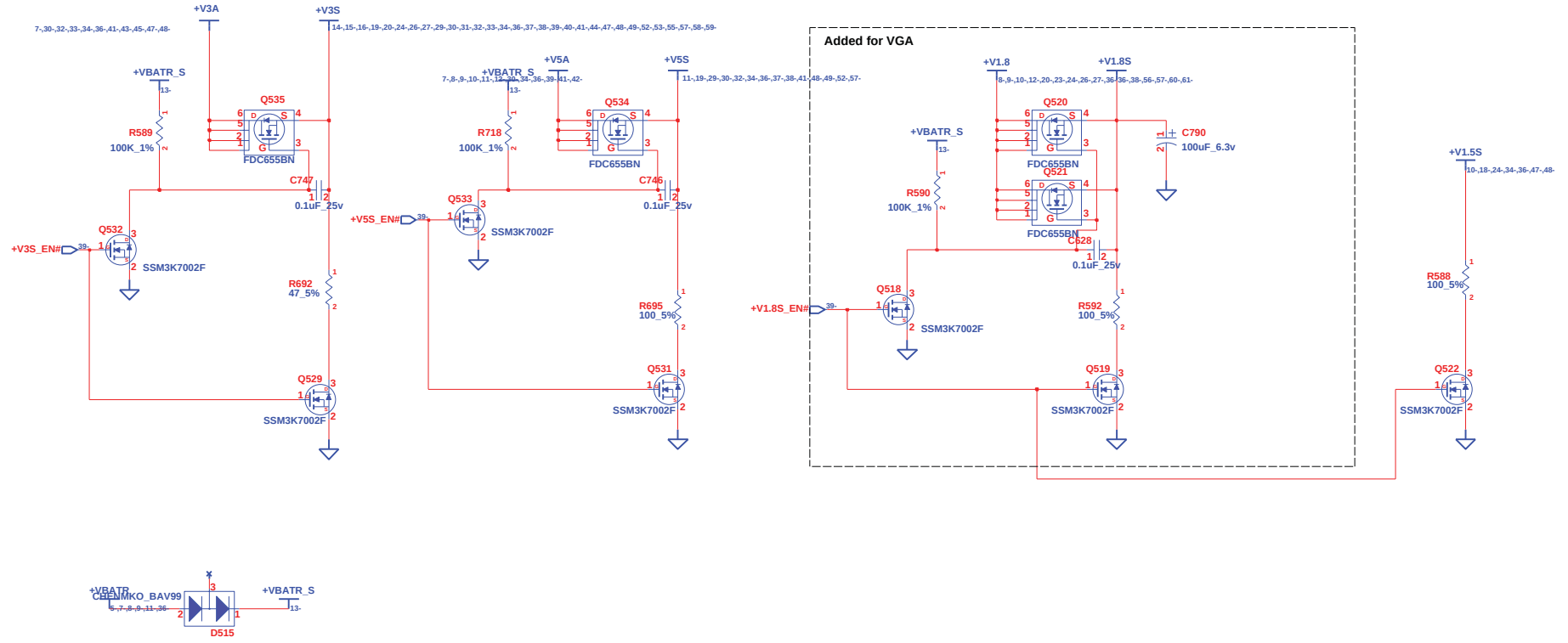
INVENTEC

TITLE			
DIABLO DDR TERMINATION VOLTAGE			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI
SHEET		12	OF 61

CHANGE by *Drawn Name* 9-Oct-2007

8

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INVENTEC			
TITLE DIABLO POWER(SLEEP)			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI
CHANGE by Drafter Name		9-Oct-2007	
SHEET 13		OF 61	

1 2 3 4 5 6 7 8

A

B

C

D

E

F

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SLP_S3#_3R 7-32-38-39-41-48

R335 1K 5%

D10 DAP202K

+V3S 13-15-16-19-20-24-26-27-29-30-31-32-33-34-36-37-38-39-40-41-44-47-48-49-52-53-55-57-58-59

VGA_PG 8- R334 1K 5%

V1.25S_PG 8- R336 10K 5%

V1.5S_PG 10- R333 10K 5%

V1.8_PG 8- R332 10K 5%

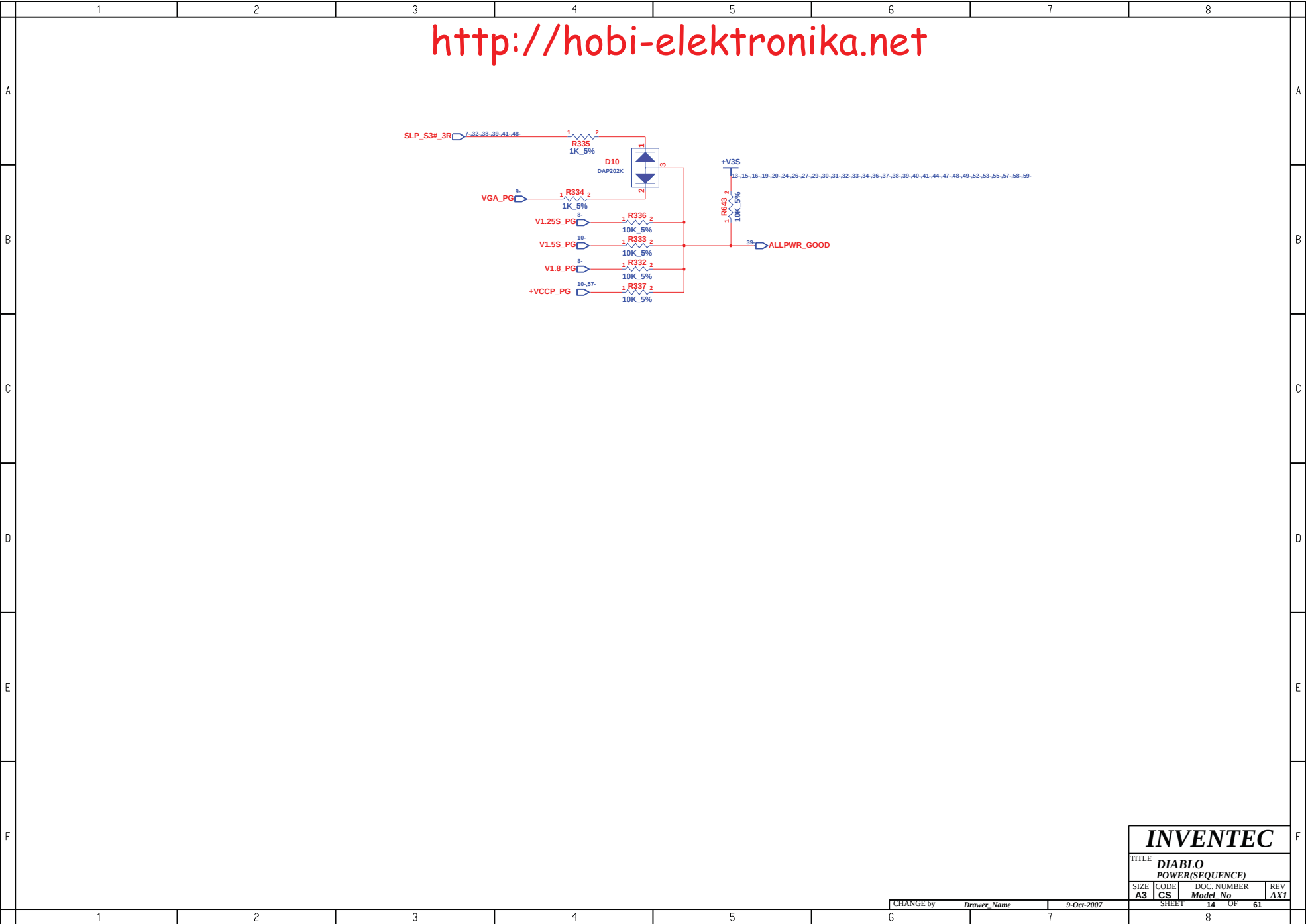
+VCCP_PG 10-57- R337 10K 5%

R643 10K 5%

ALLPWR_GOOD 39

INVENTEC			
TITLE			
DIABLO			
POWER(SEQUENCE)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AX1

CHANGE by	Drawer Name	9-Oct-2007	SHEET	14	OF	61
6	7	8				



1 2 3 4 5 6 7 8

A

B

C

D

E

F

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SLP_S3#_3R 7-32-38-39-41-48

R335 1K 5%

D10 DAP202K

+V3S 13-15-16-19-20-24-26-27-29-30-31-32-33-34-36-37-38-39-40-41-44-47-48-49-52-53-55-57-58-59

VGA_PG 8- R334 1K 5%

V1.25S_PG 8- R336 10K 5%

V1.5S_PG 10- R333 10K 5%

V1.8_PG 8- R332 10K 5%

+VCCP_PG 10-57- R337 10K 5%

R643 10K 5%

ALLPWR_GOOD 39

INVENTEC			
TITLE			
DIABLO			
POWER(SEQUENCE)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AX1

CHANGE by	Drawer Name	9-Oct-2007	SHEET	14	OF	61
6	7	8				

1 2 3 4 5 6 7 8

A

B

C

D

E

F

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SLP_S3#_3R 7-32, 38, 39, 41, 48

R335 1K 5%

D10 DAP202K

+V3S 13-15, 16-19, 20-24, 26-27, 29-30, 31-32, 33-34, 36-37, 38-39, 40-41, 44-47, 48-49, 52-53, 55-57, 58-59

VGA_PG 8

R334 1K 5%

V1.25S_PG 8

R336 10K 5%

V1.5S_PG 10

R333 10K 5%

V1.8_PG 8

R332 10K 5%

+VCCP_PG 10-57

R337 10K 5%

R643 10K 5%

39 ALLPWR_GOOD

INVENTEC			
TITLE			
DIABLO			
POWER(SEQUENCE)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AX1

CHANGE by	Drawer Name	9-Oct-2007	SHEET	14	OF	61
6	7	8				

1 2 3 4 5 6 7 8

A

B

C

D

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SLP_S3#_3R 7-32, 38, 39, 41, 48

R335 1K 5%

D10 DAP202K

+V3S 13-15, 16-19, 20-24, 26-27, 29-30, 31-32, 33-34, 36-37, 38-39, 40-41, 44-47, 48-49, 52-53, 55-57, 58-59

VGA_PG 8

R334 1K 5%

V1.25S_PG 8

R336 10K 5%

V1.5S_PG 10

R333 10K 5%

V1.8_PG 8

R332 10K 5%

+VCCP_PG 10-57

R337 10K 5%

R643 10K 5%

39 ALLPWR_GOOD

INVENTEC			
TITLE			
DIABLO			
POWER(SEQUENCE)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AX1

CHANGE by	Drawer Name	9-Oct-2007	SHEET	14	OF	61
6	7	8				

1 2 3 4 5 6 7 8

A

B

C

D

E

F

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SLP_S3#_3R 7-32, 38, 39, 41, 48

R335 1K 5%

D10 DAP202K

+V3S 13-15, 16-19, 20-24, 26-27, 29-30, 31-32, 33-34, 36-37, 38-39, 40-41, 44-47, 48-49, 52-53, 55-57, 58-59

VGA_PG 8

R334 1K 5%

V1.25S_PG 8

R336 10K 5%

V1.5S_PG 10

R333 10K 5%

V1.8_PG 8

R332 10K 5%

+VCCP_PG 10-57

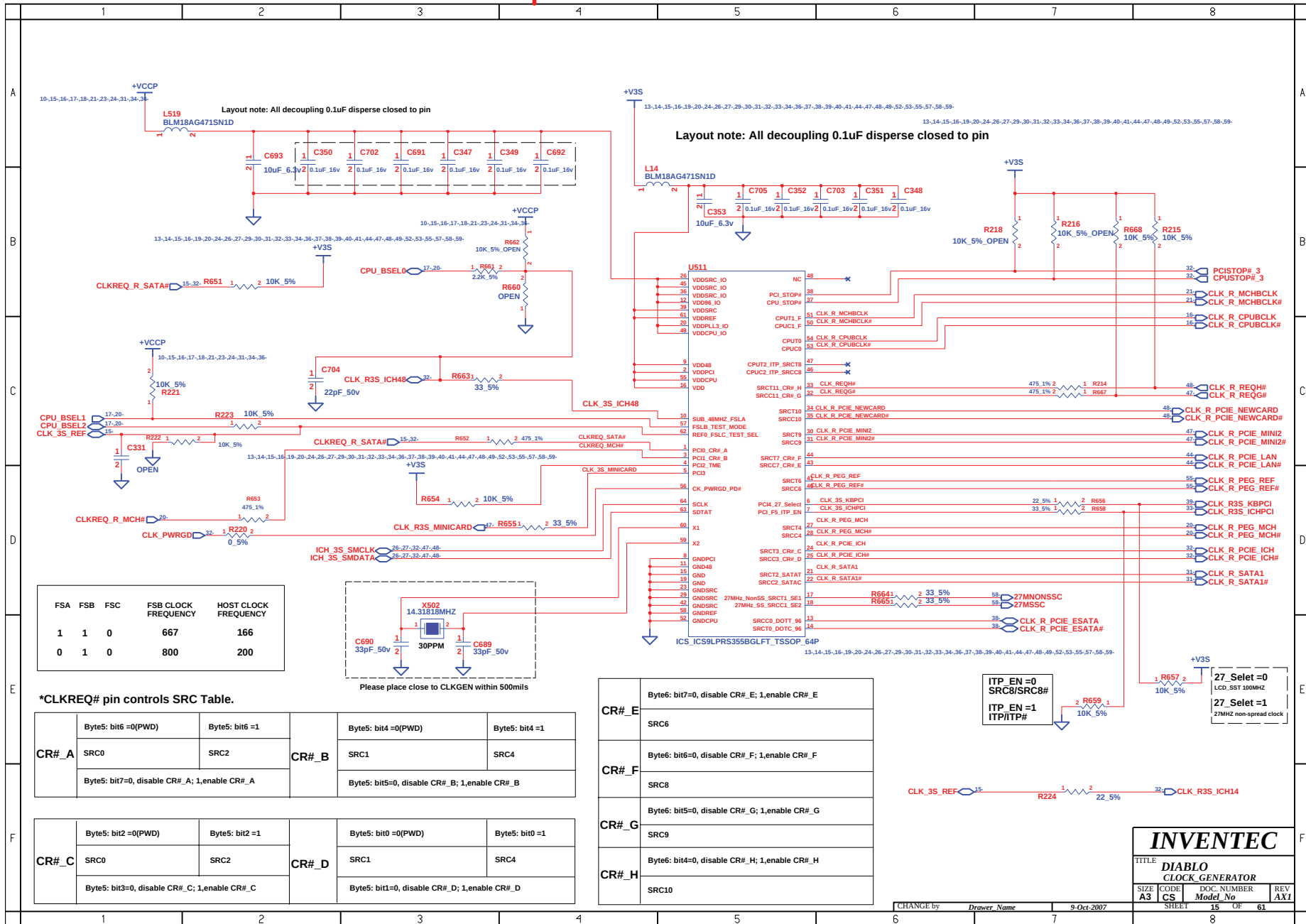
R337 10K 5%

R643 10K 5%

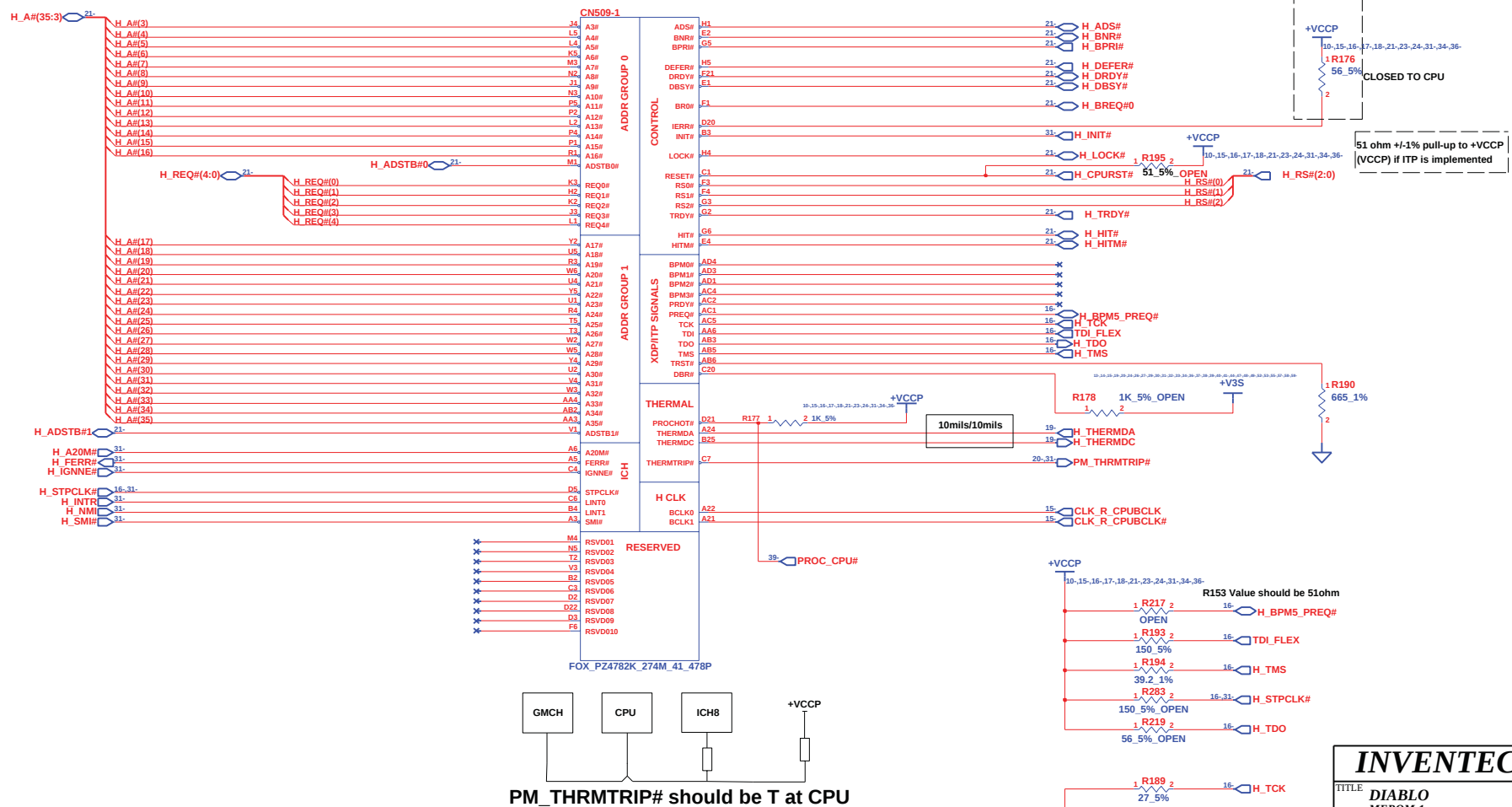
39 ALLPWR_GOOD

INVENTEC			
TITLE			
DIABLO			
POWER(SEQUENCE)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AX1

CHANGE by	Drawer Name	9-Oct-2007	SHEET	14	OF	61
6	7	8				

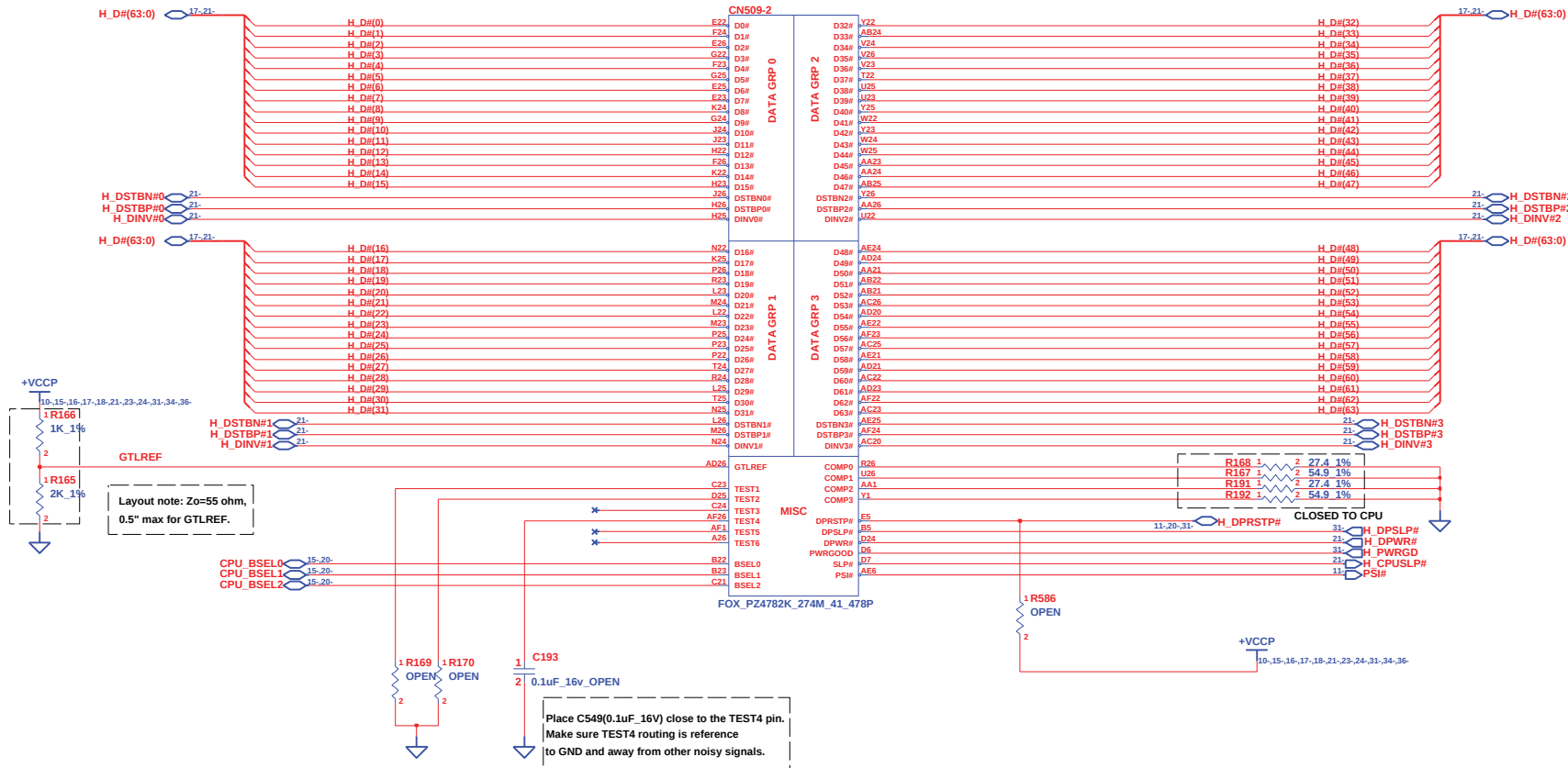


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INVENTEC			
TITLE			
DIABLO			
MEROM-1			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI
CHANGE by		9-Oct-2007	
DRAWER NAME			
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		8	

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INVENTEC

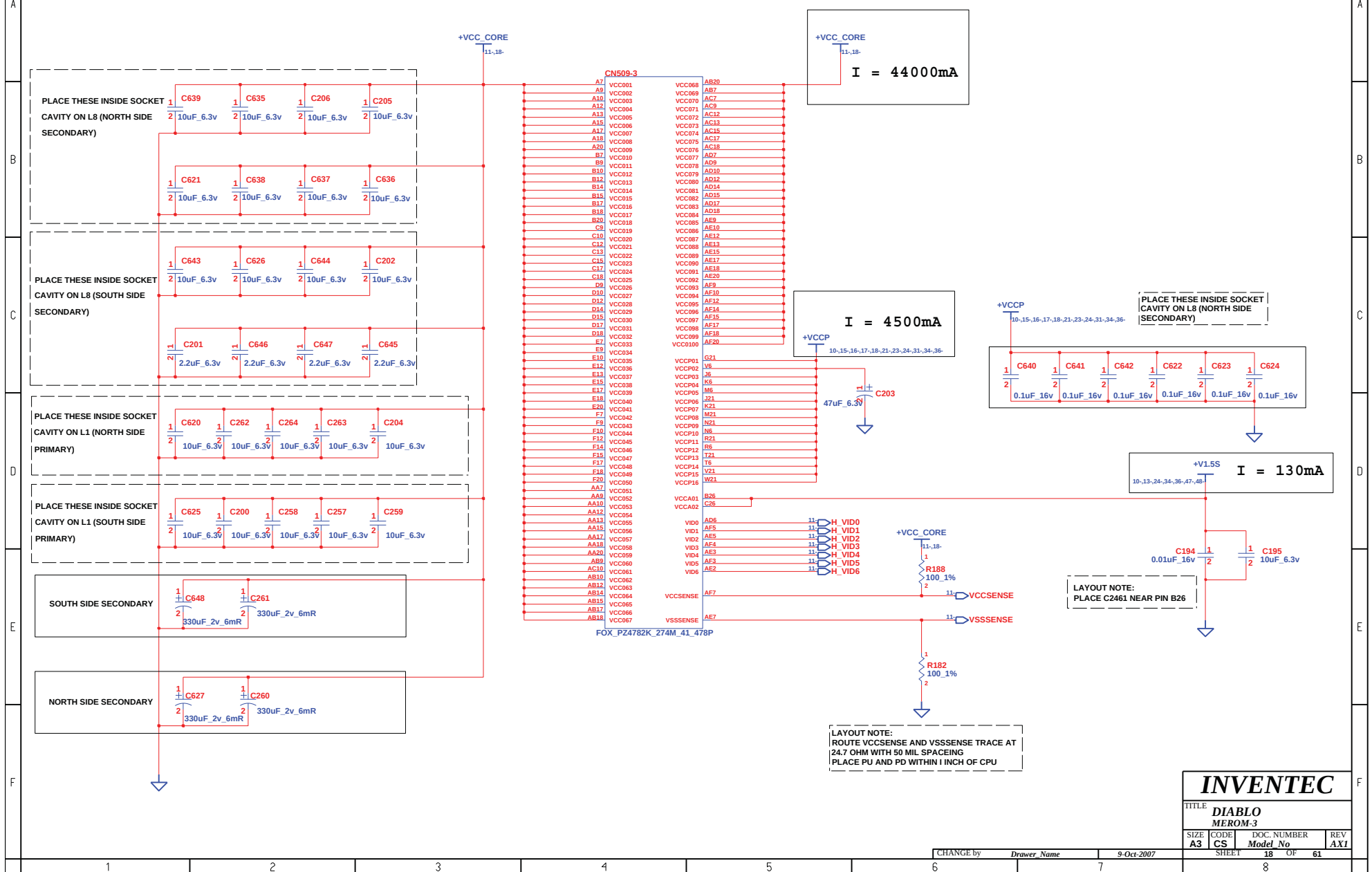
TITLE
**DIABLO
MEROM-2**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI

CHANGE by *Drawer Name* 9-Oct-2007

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FAN CONN

I2C

INVENTEC

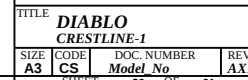
DIABLO THERMAL & FAN

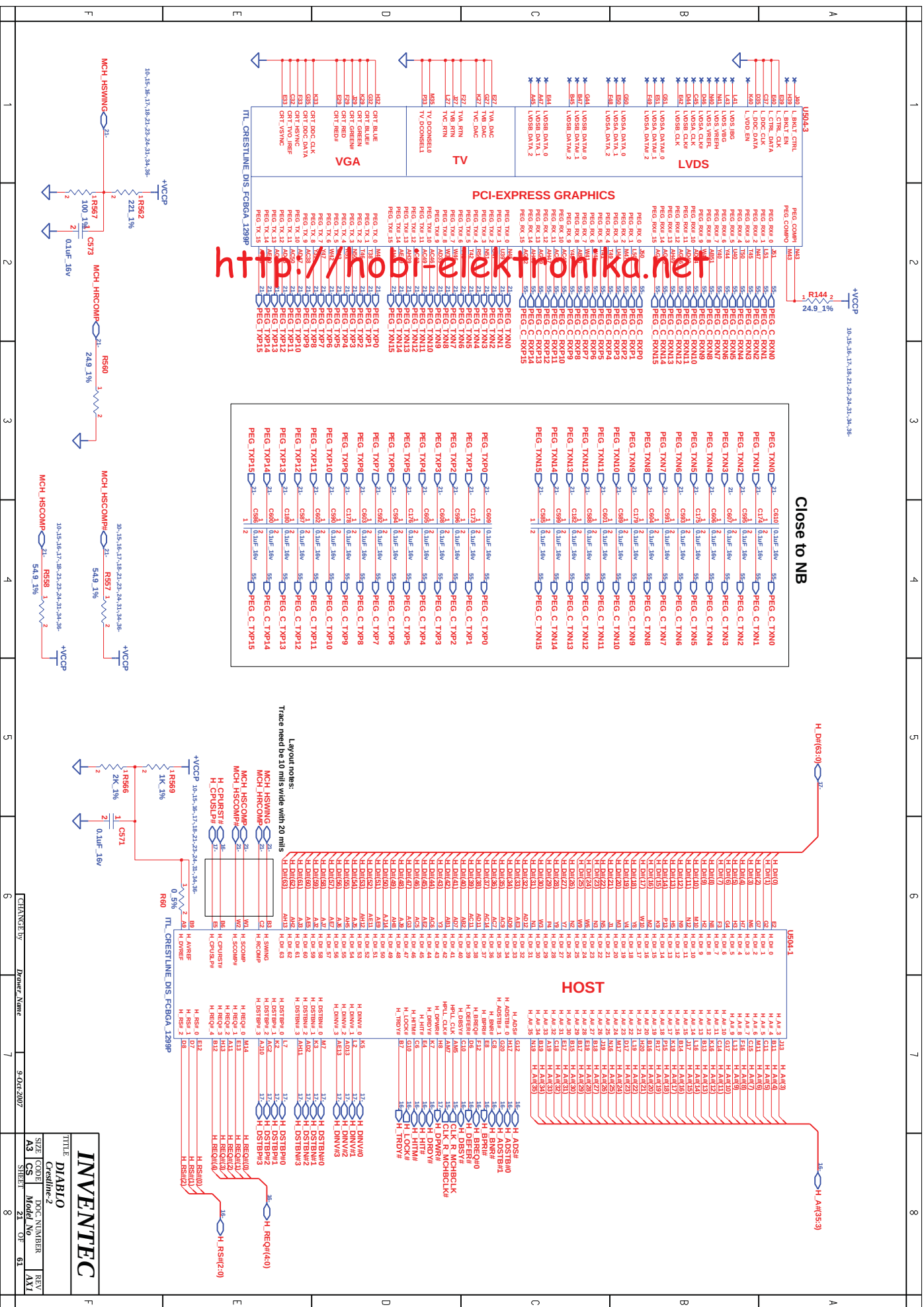
SIZE A3 CODE CS DOC. NUMBER Model No SHEET 19 OF 61

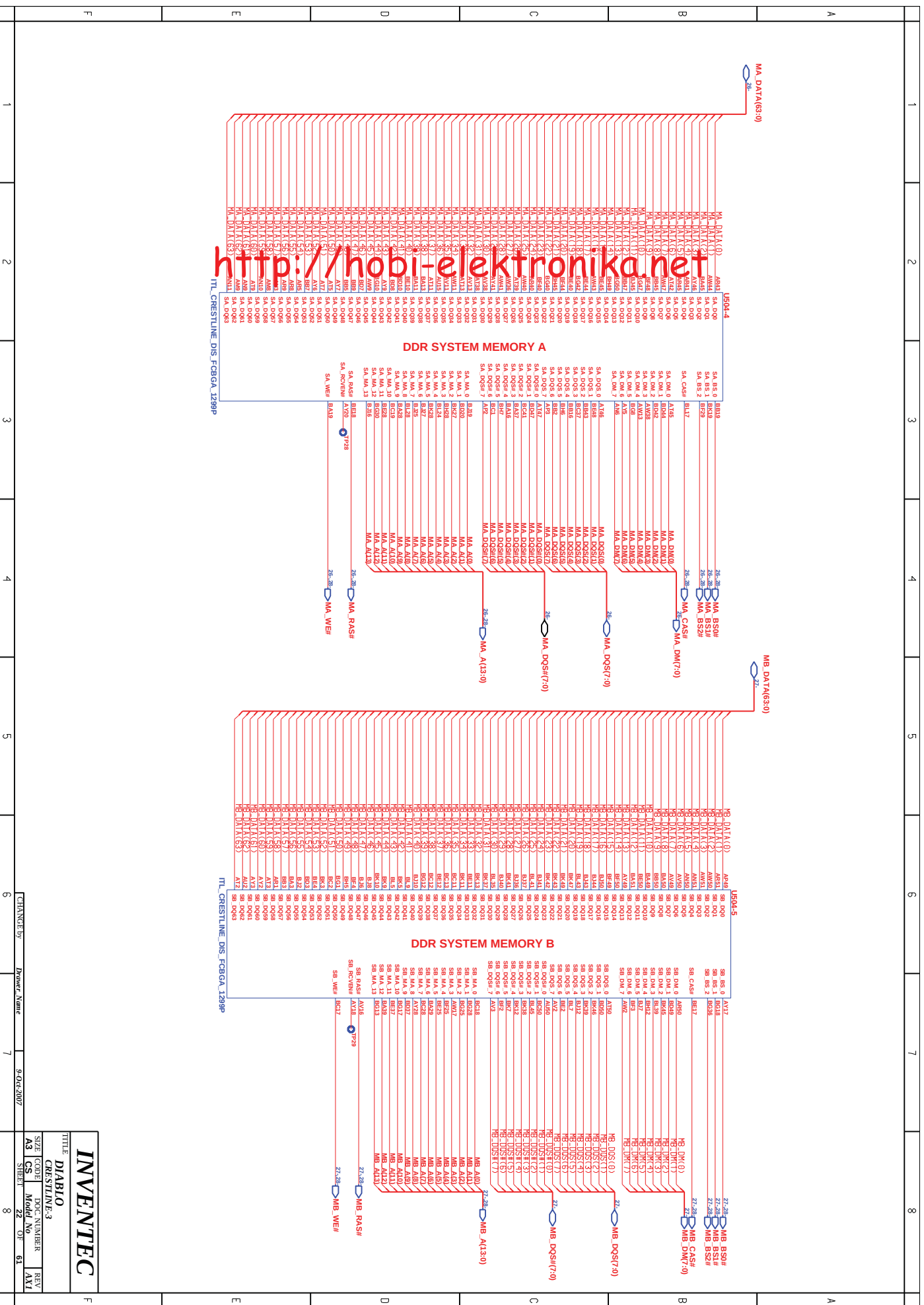
CHANGE by Drawer Name 9-Oct-2007

TITLE			
DIABLO THERMAL&FAN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	<i>Model No</i>	AX1

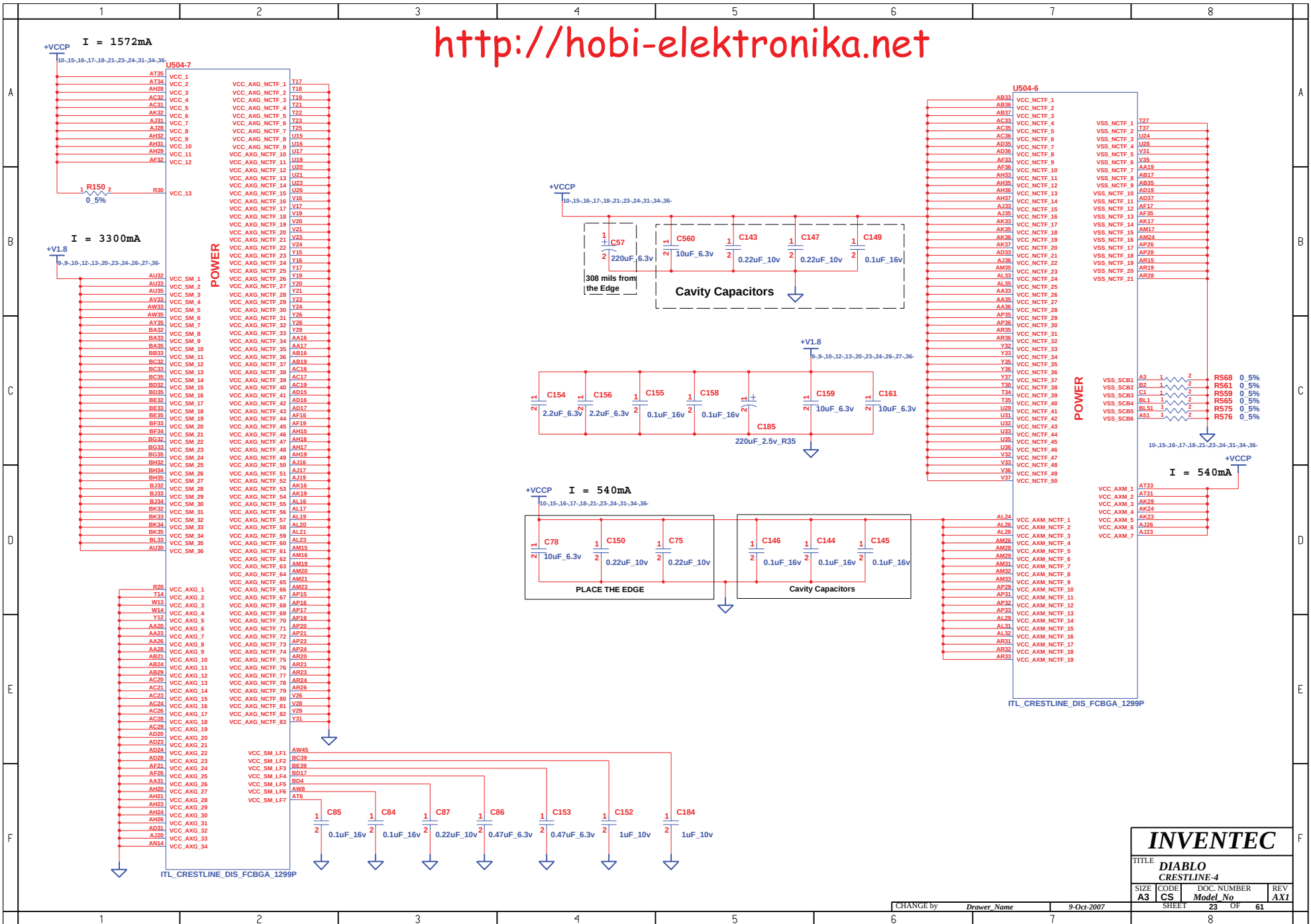
CS Model No
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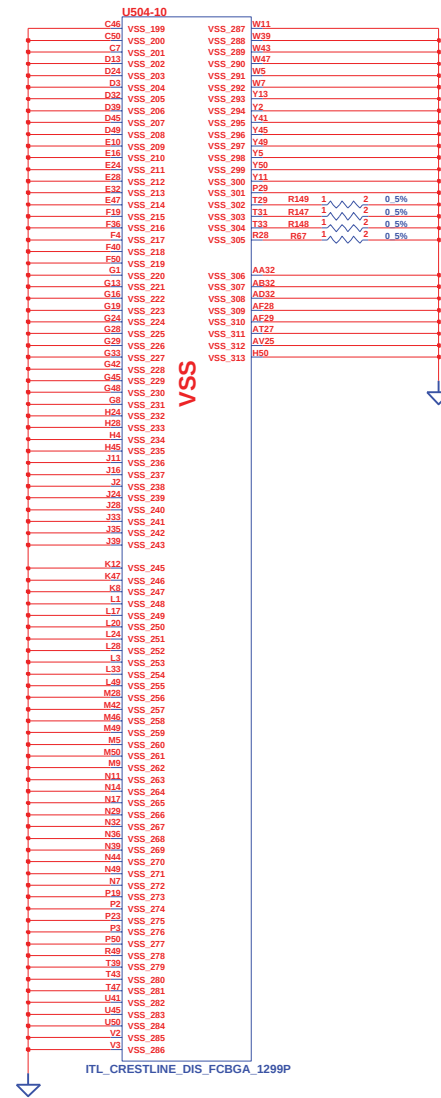
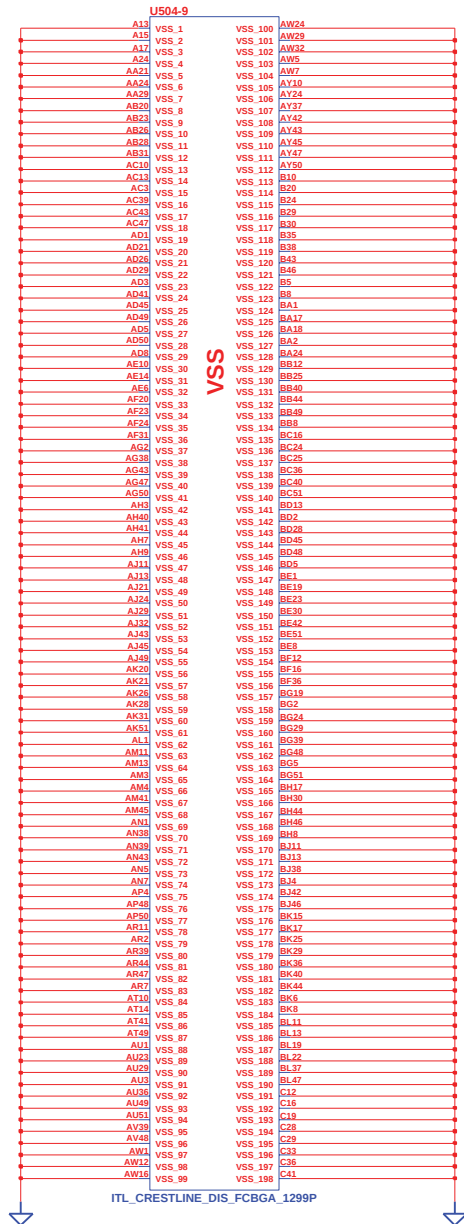


http://hobi-elektronika.net

TITLE			
DIABLO <i>Cresline-5</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	<i>Model No</i>	AX1

CS Model No
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<http://hobi-elektronika.net>

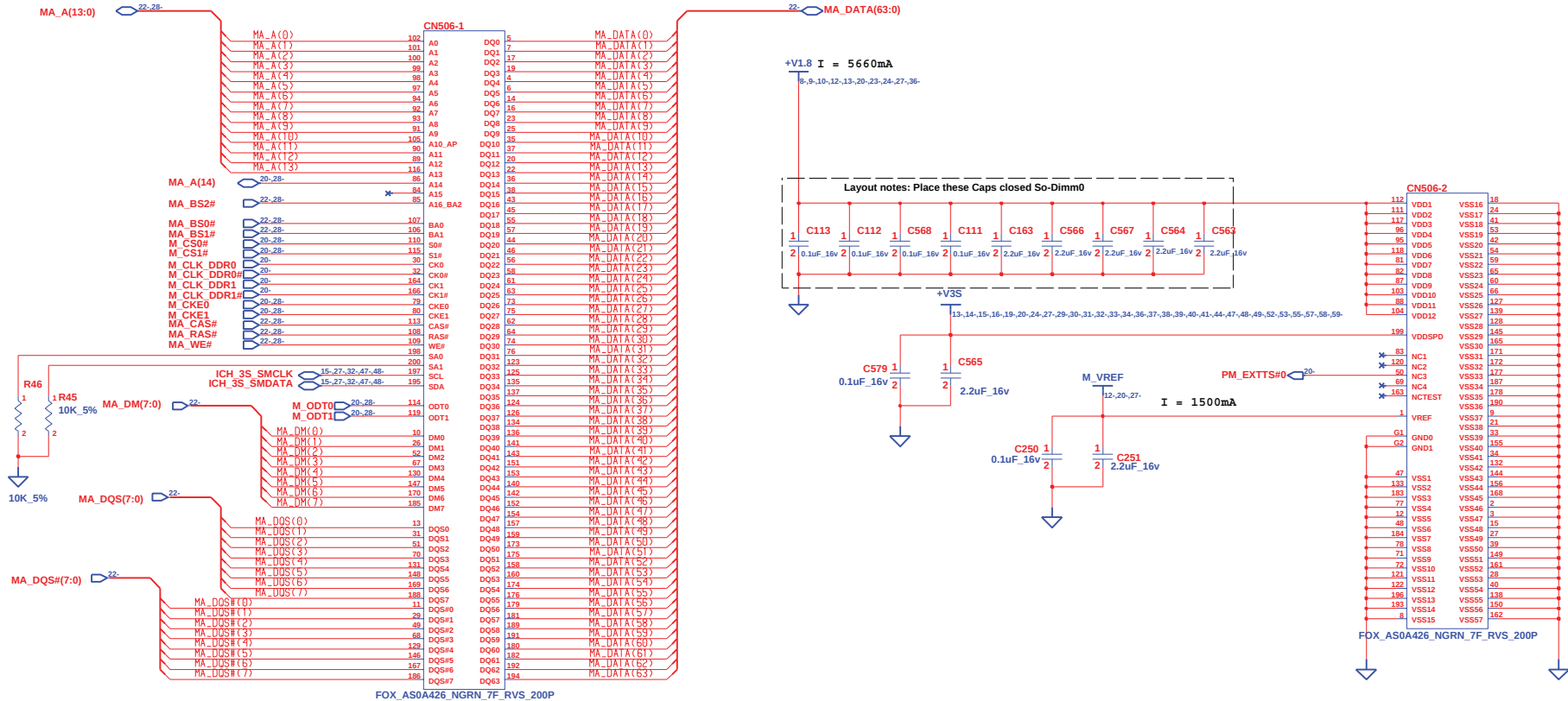


INVENTEC

TITLE			
DIABLO			
CRESTLINE-6			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI
SHEET		25	OF 61

CHANGE by *Drawer Name* 9-Oct-2007

<http://hobi-elektronika.net>



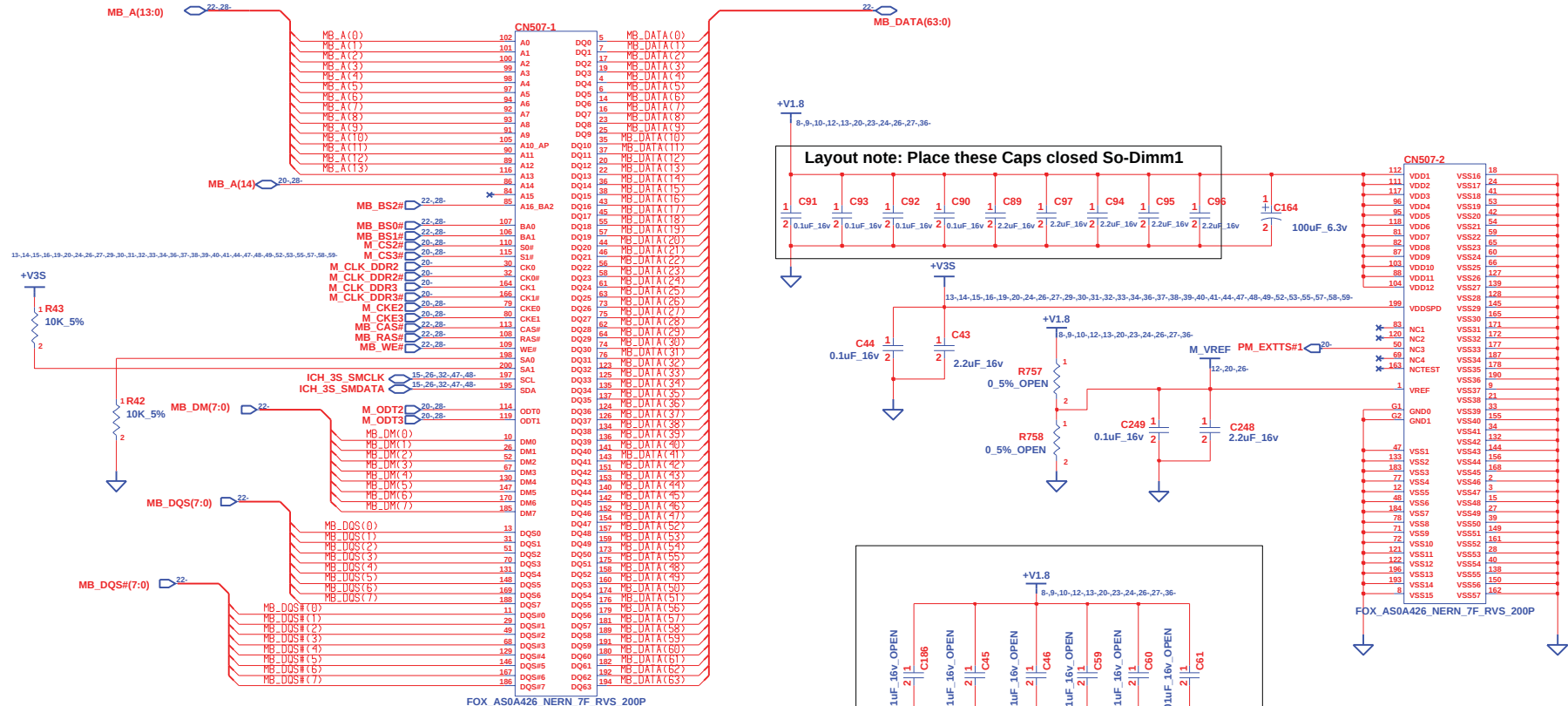
SO DIMM0_11mm

INVENTEC

TITLE			
DIABLO			
DDR2-DIMM-0			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI

CHANGE by	Drawn Name	9-Oct-2007	SHEET	26	OF	61
				8		

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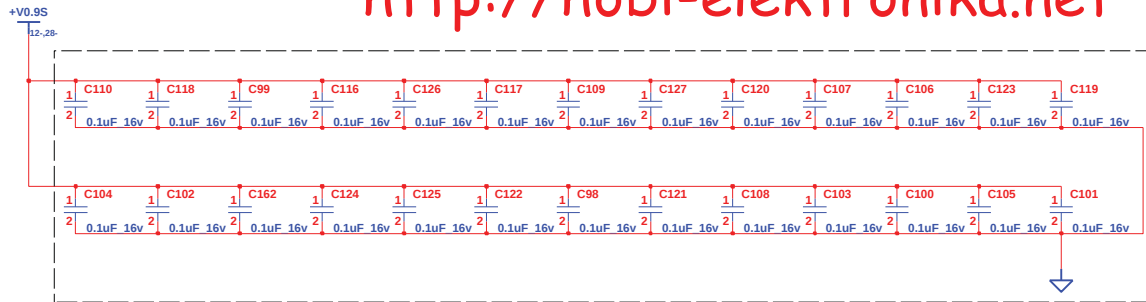
SO DIMM1 6.5mm

INVENTEC

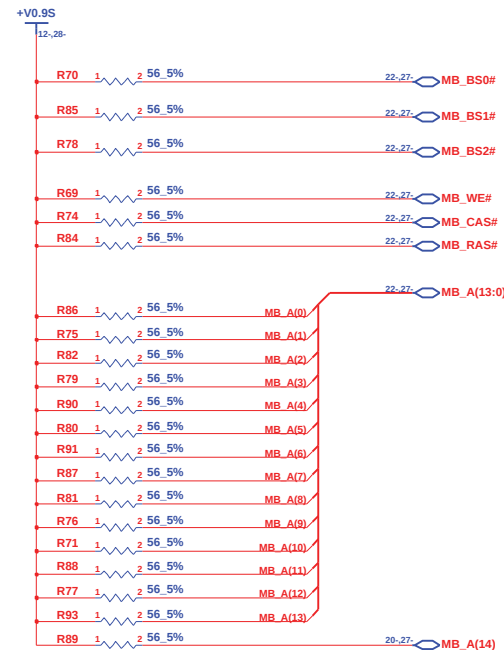
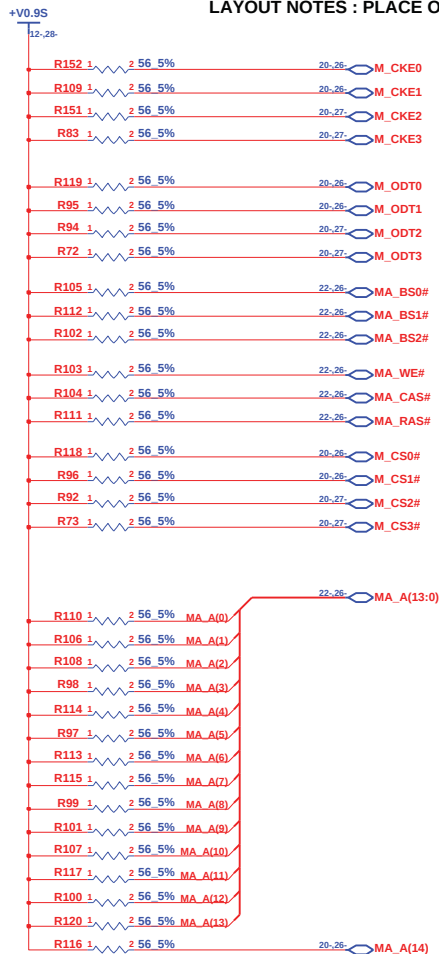
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DIABLO			
DDR2-DIMM1			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AX1
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CHANGE by *Drawer Name* 9-Oct-2007

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LAYOUT NOTES : PLACE ONE CAP CLOSE TO EVERY 2 PULL UP RESISTOR TERMINATED TO +V0.9S



INVENTEC

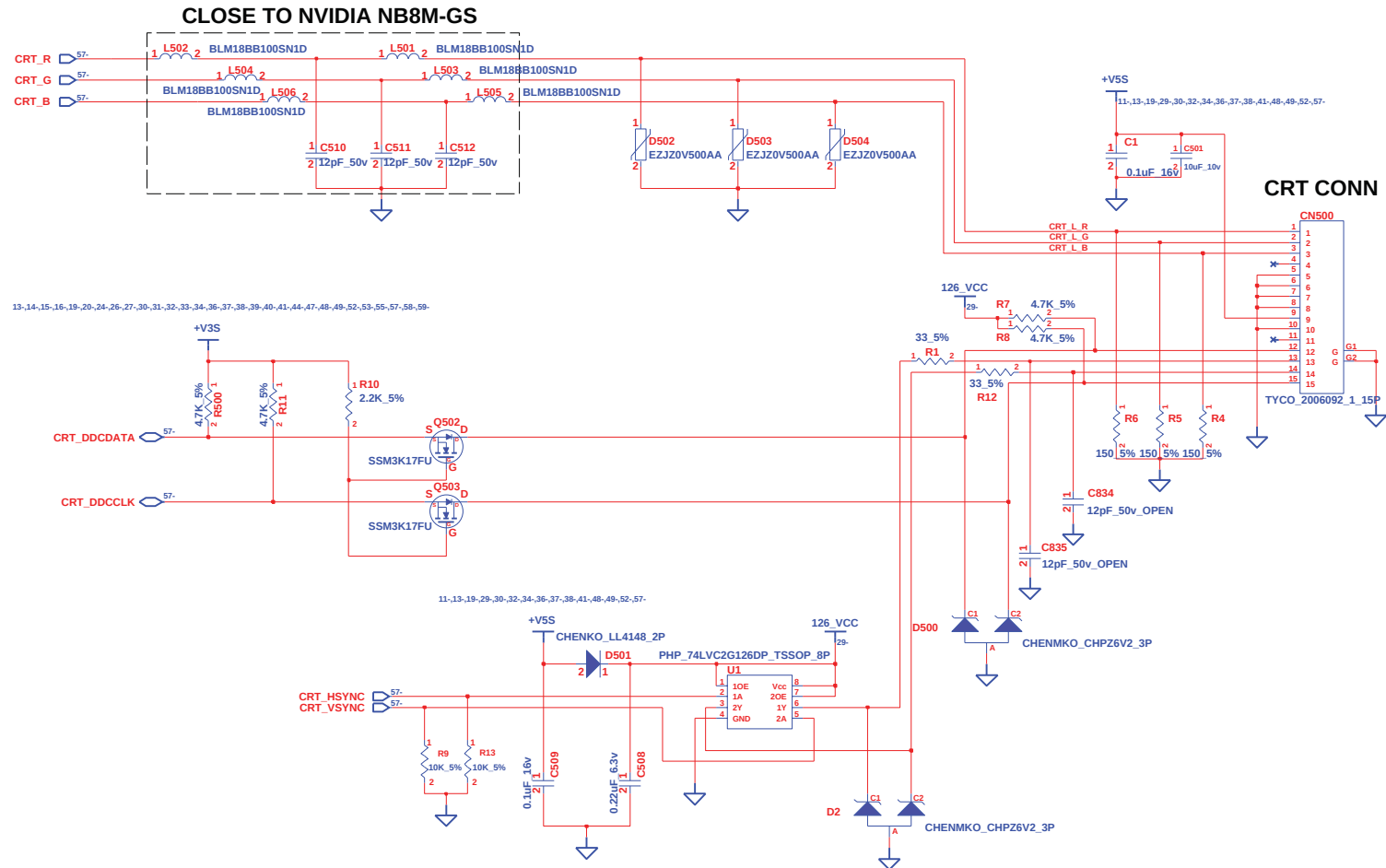
TITLE
DIABLO
DDR2-DAMPING

SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI
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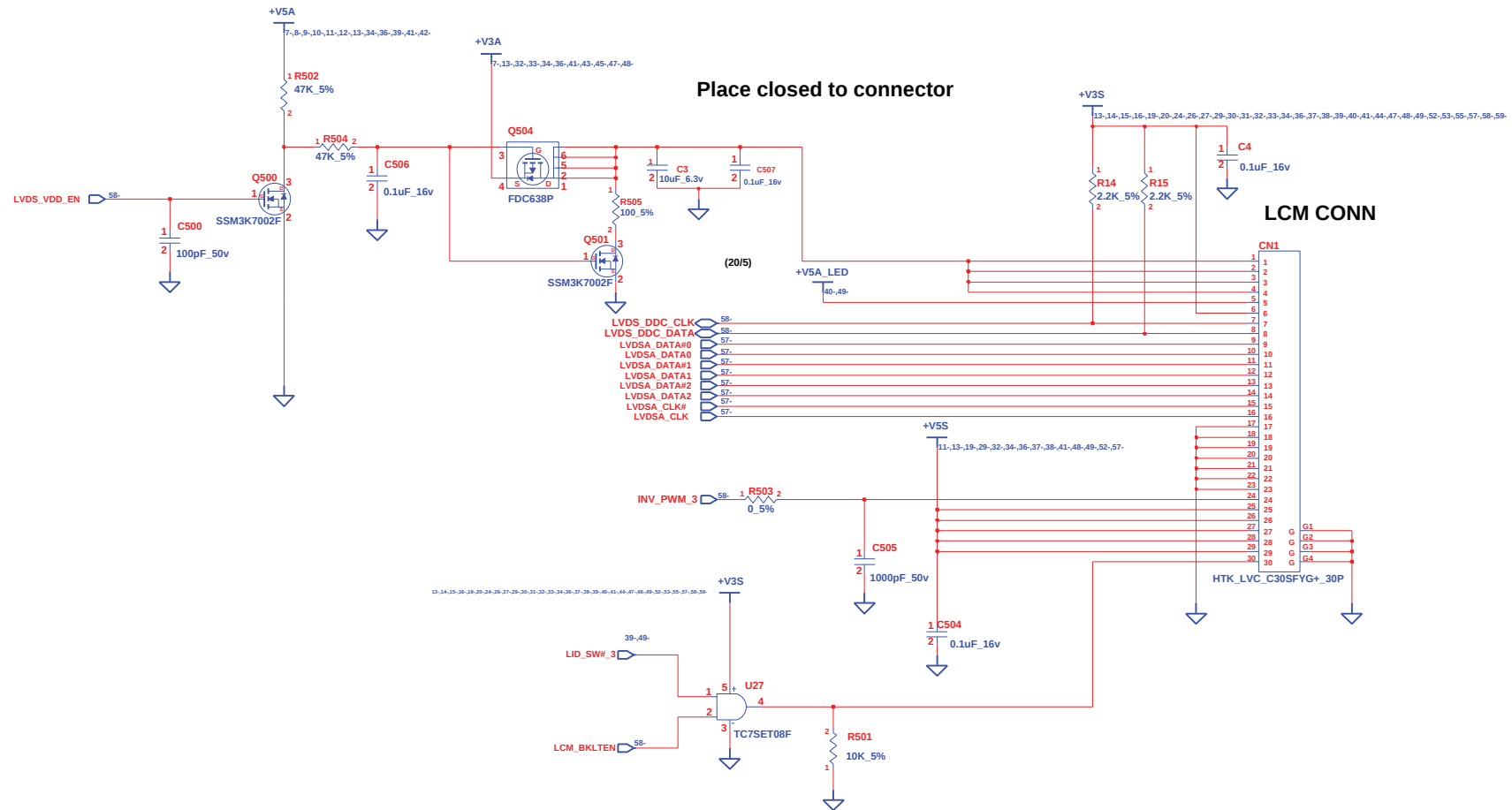
CHANGE by **Drawn Name** **27-Sep-2003**

8

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INVENTEC

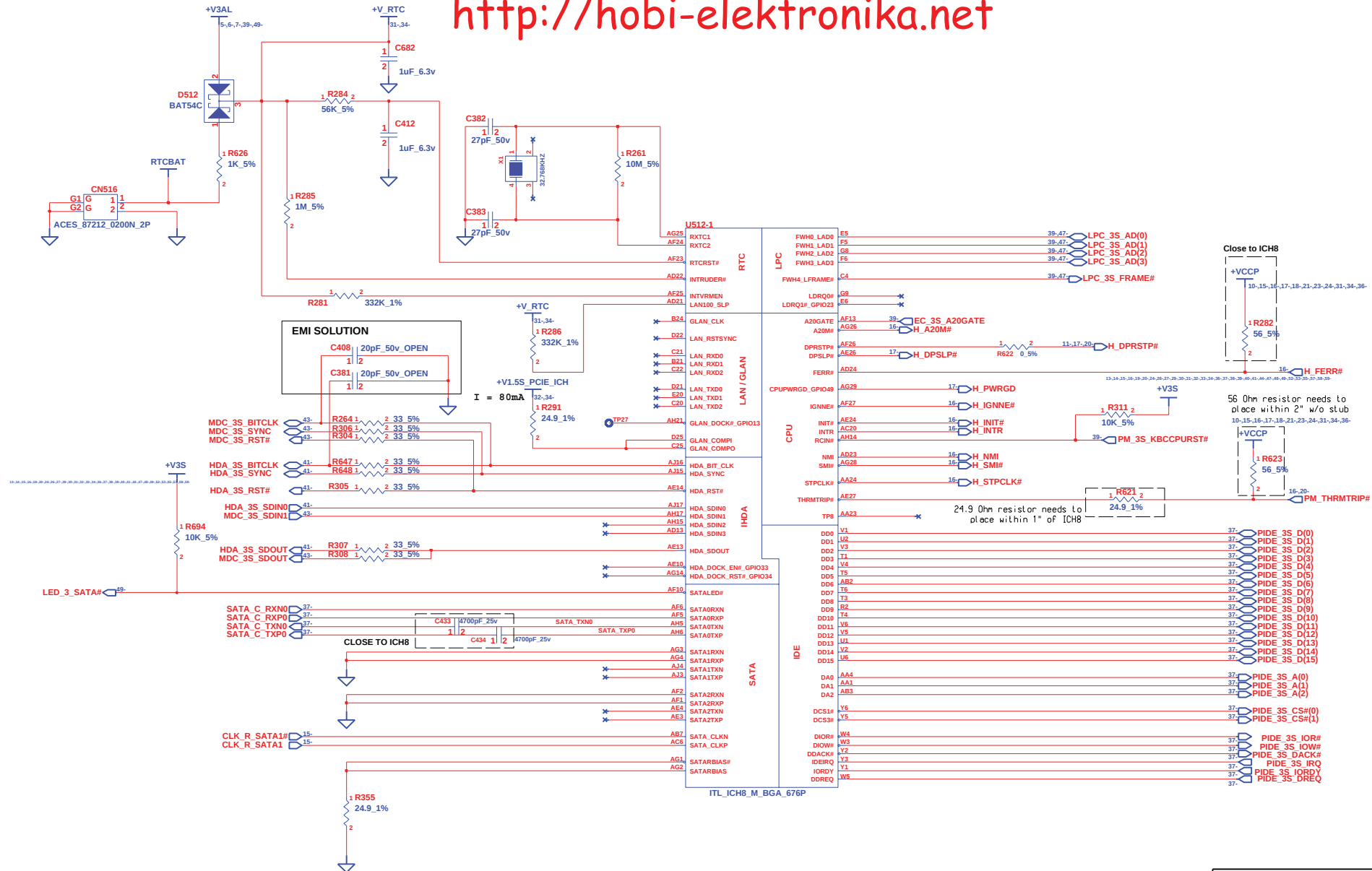
TITLE			
DIABLO			
LCM CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI

CHANGE by *Drawn Name* 9-Oct-2007

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INVENTEC

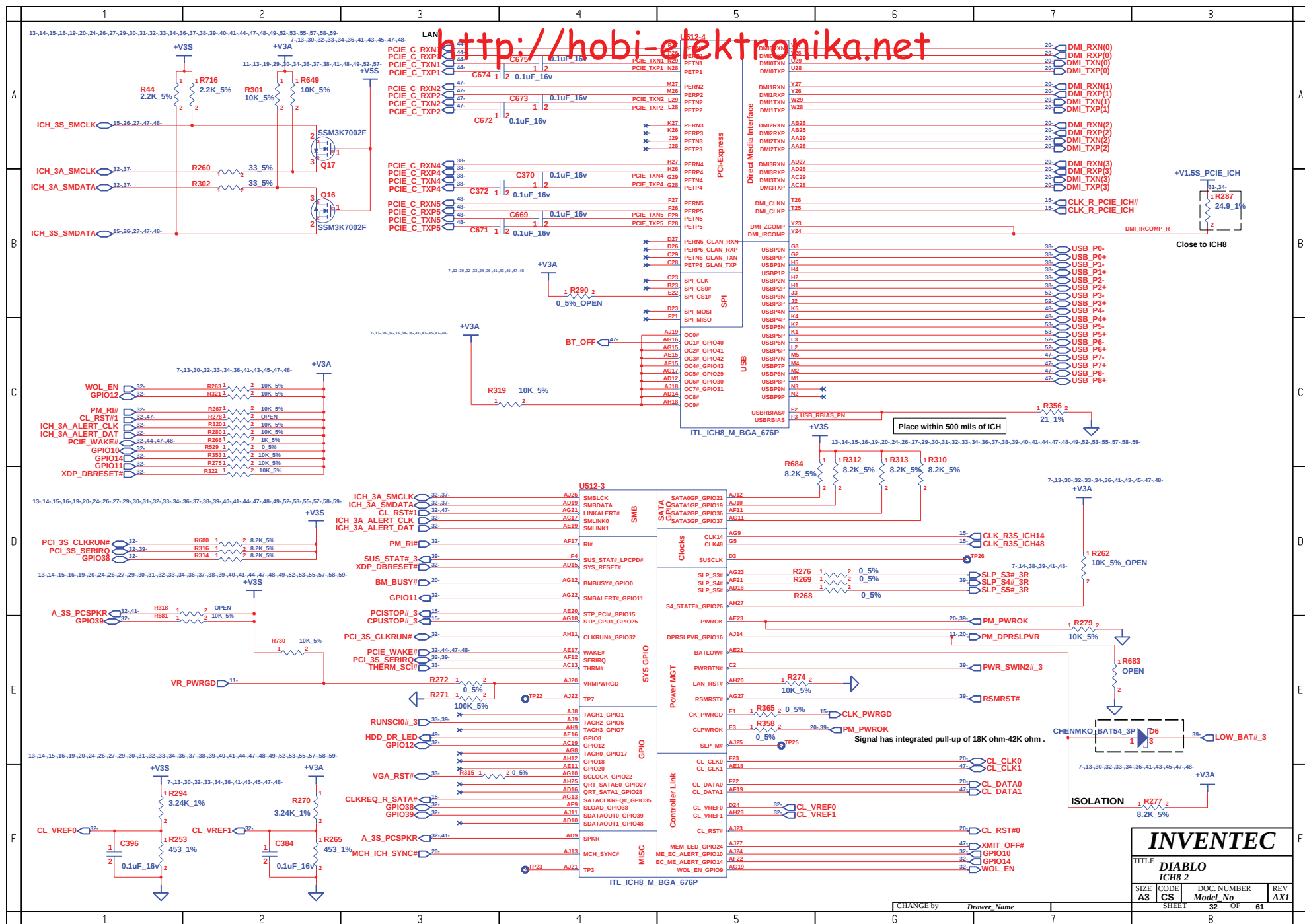
TITLE
**DIABLO
ICH8-1**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI

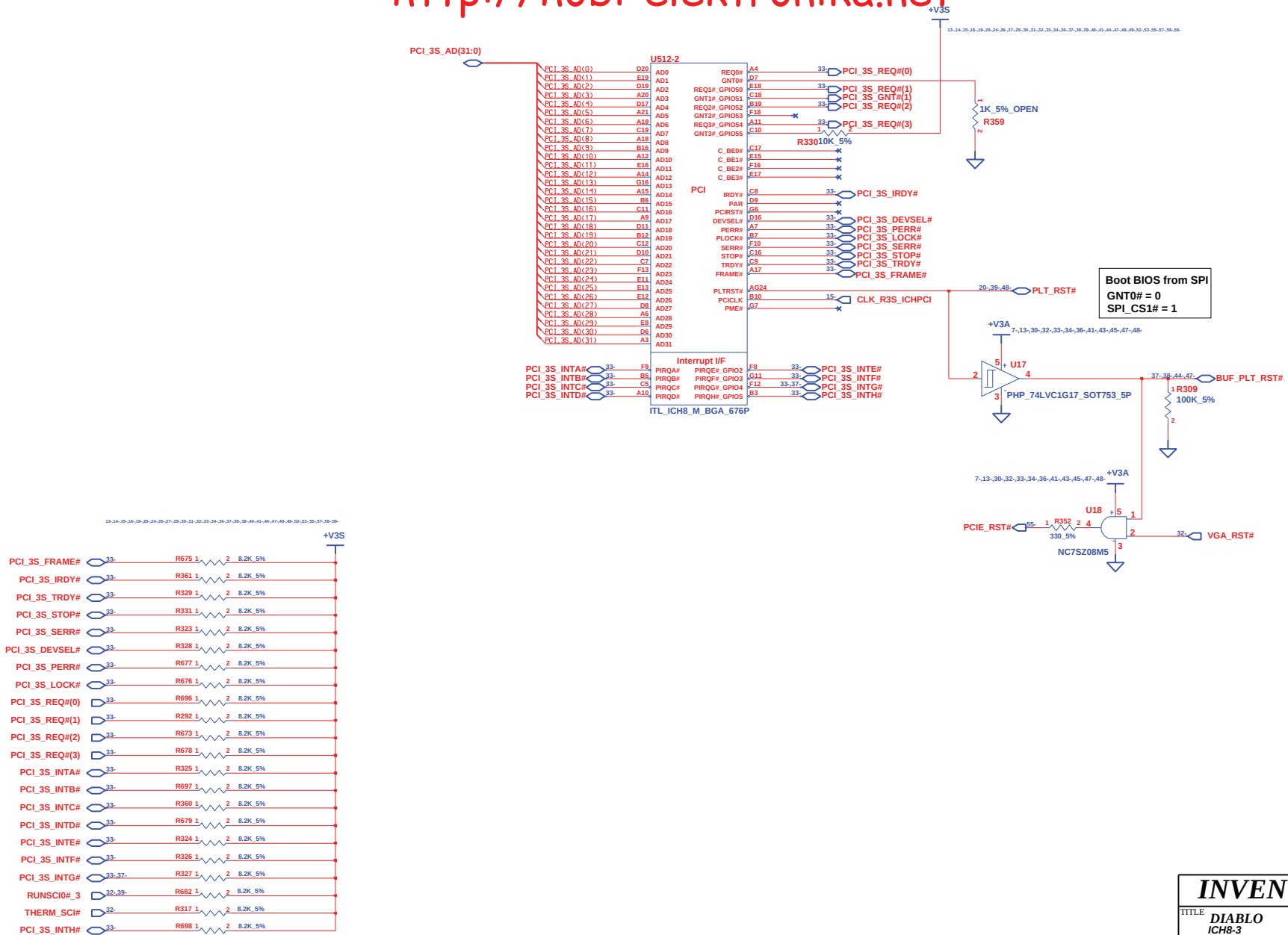
CHANGE by *Drawer Name* 9-Oct-2007

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1 2 3 4 5 6 7 8



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INVENTEC

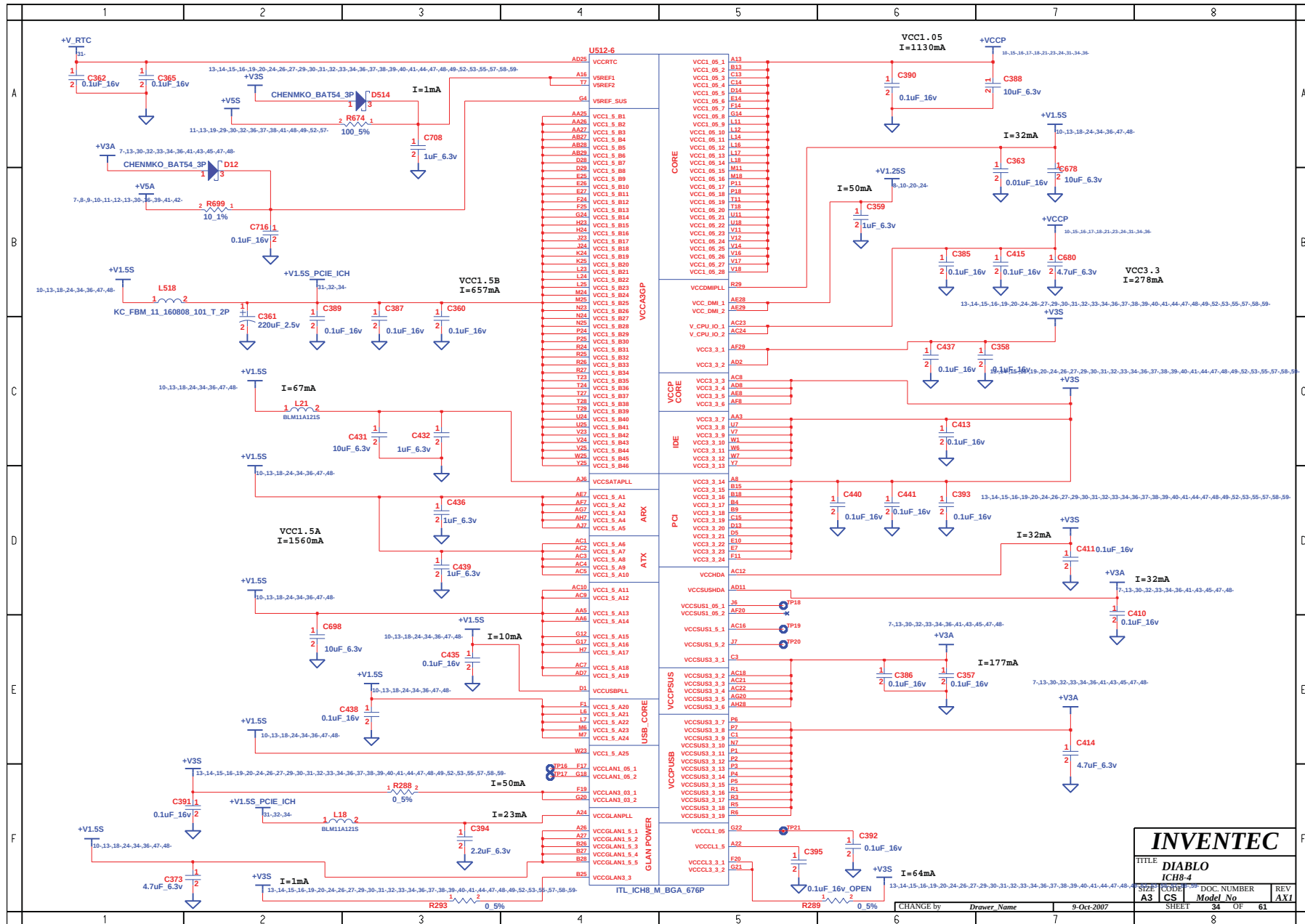
TITLE
**DIABLO
ICH8-3**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI

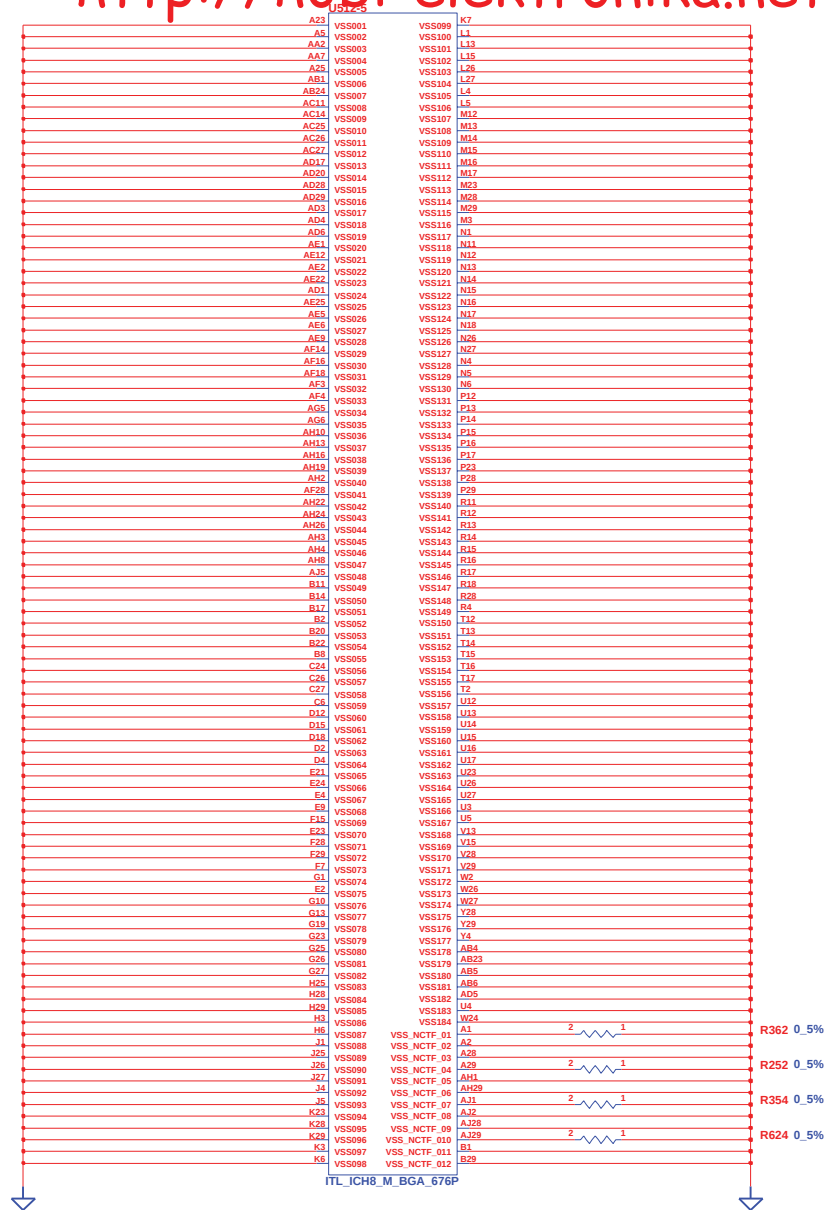
CHANGE by *Drawn Name* 9-Oct-2007

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INVENTEC			
TITLE DIABLO ICH8-5			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI
SHEET		35 OF	61

CHANGE by *Drawn Name* 9-Oct-2007

8

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INVENTEC

TITLE **DIABLO**
SYSTEM BIOS&ODD EXT/BI

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI

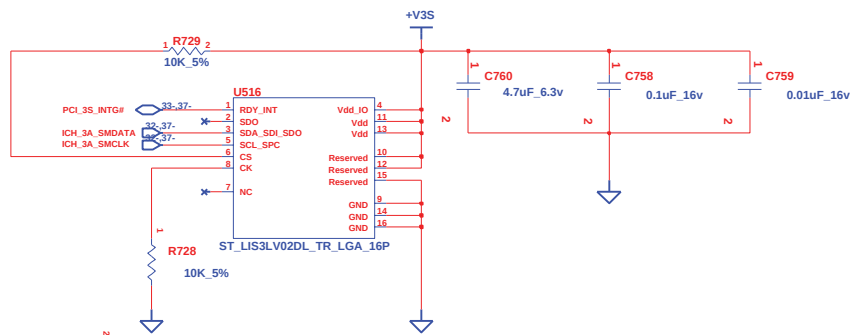
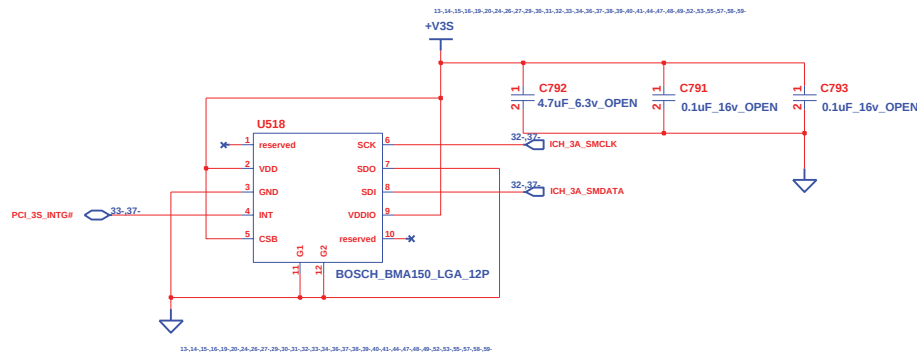
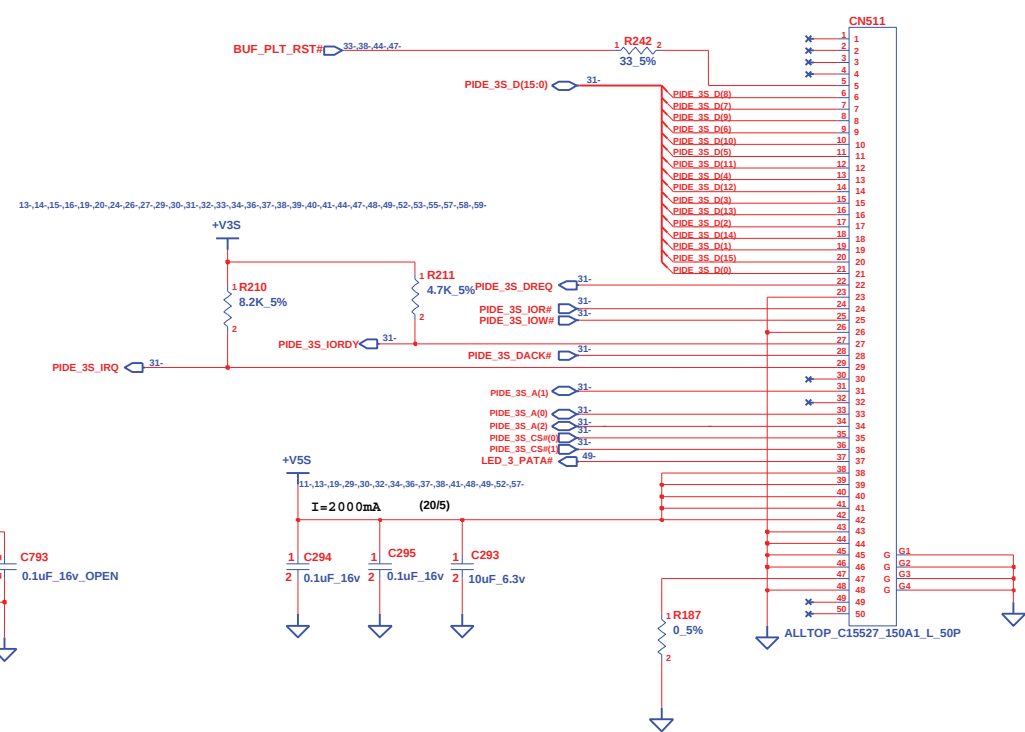
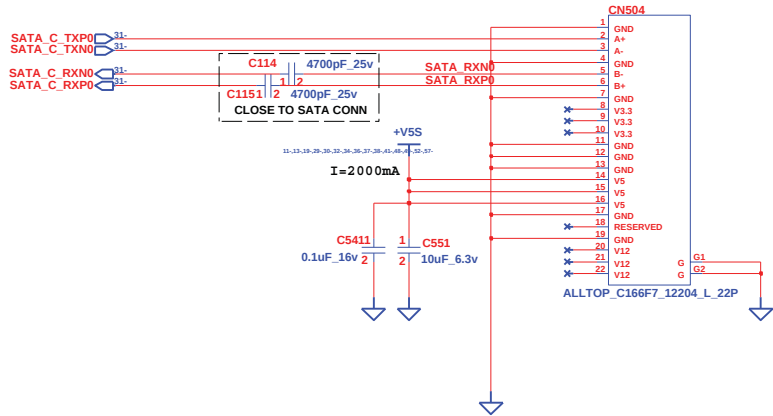
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SATA HDD CONN

ODD CONN



HARDDRIVE PROTECTION

INVENTEC

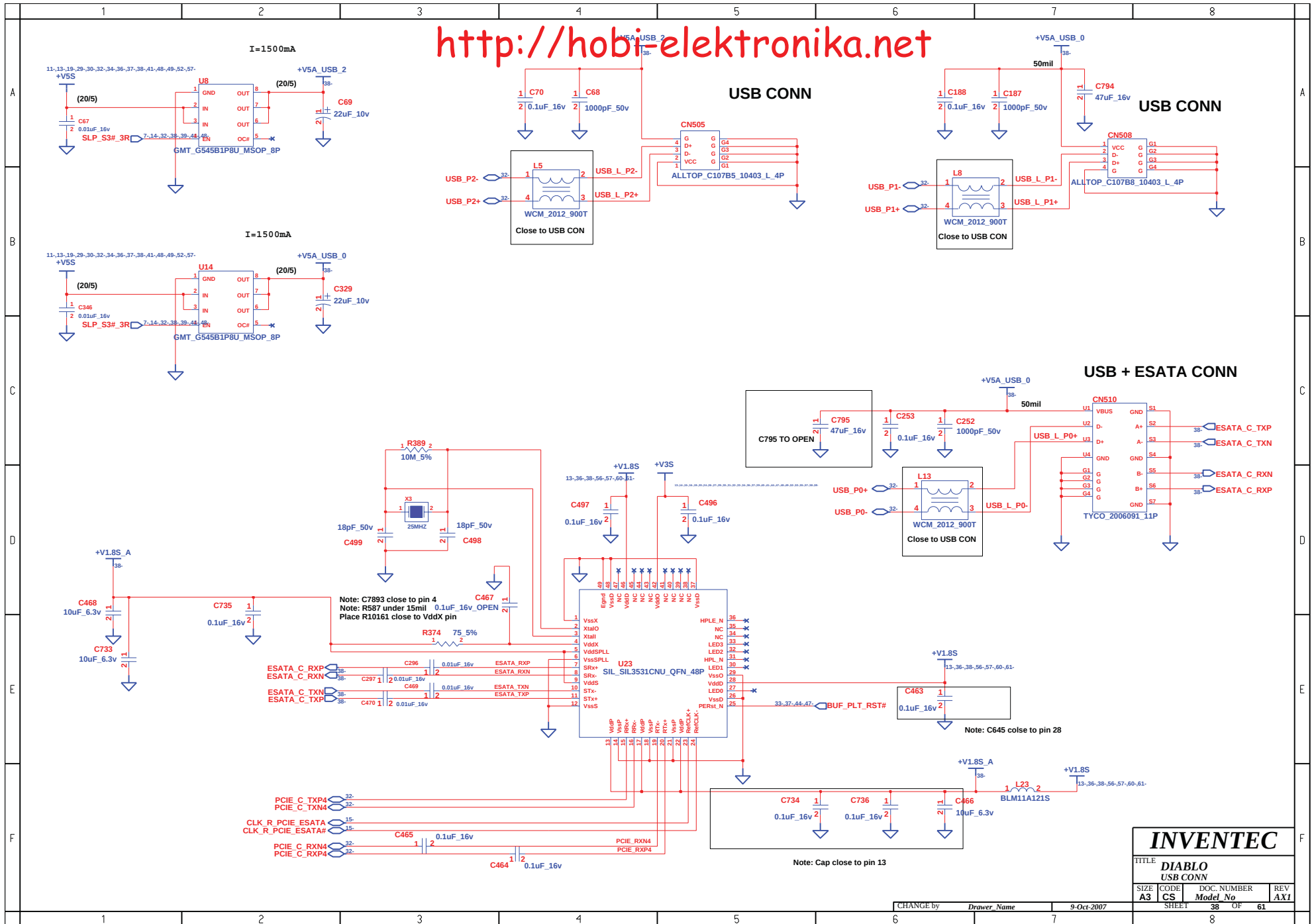
TITLE
**DIABLO
HDD & ODD CONN**

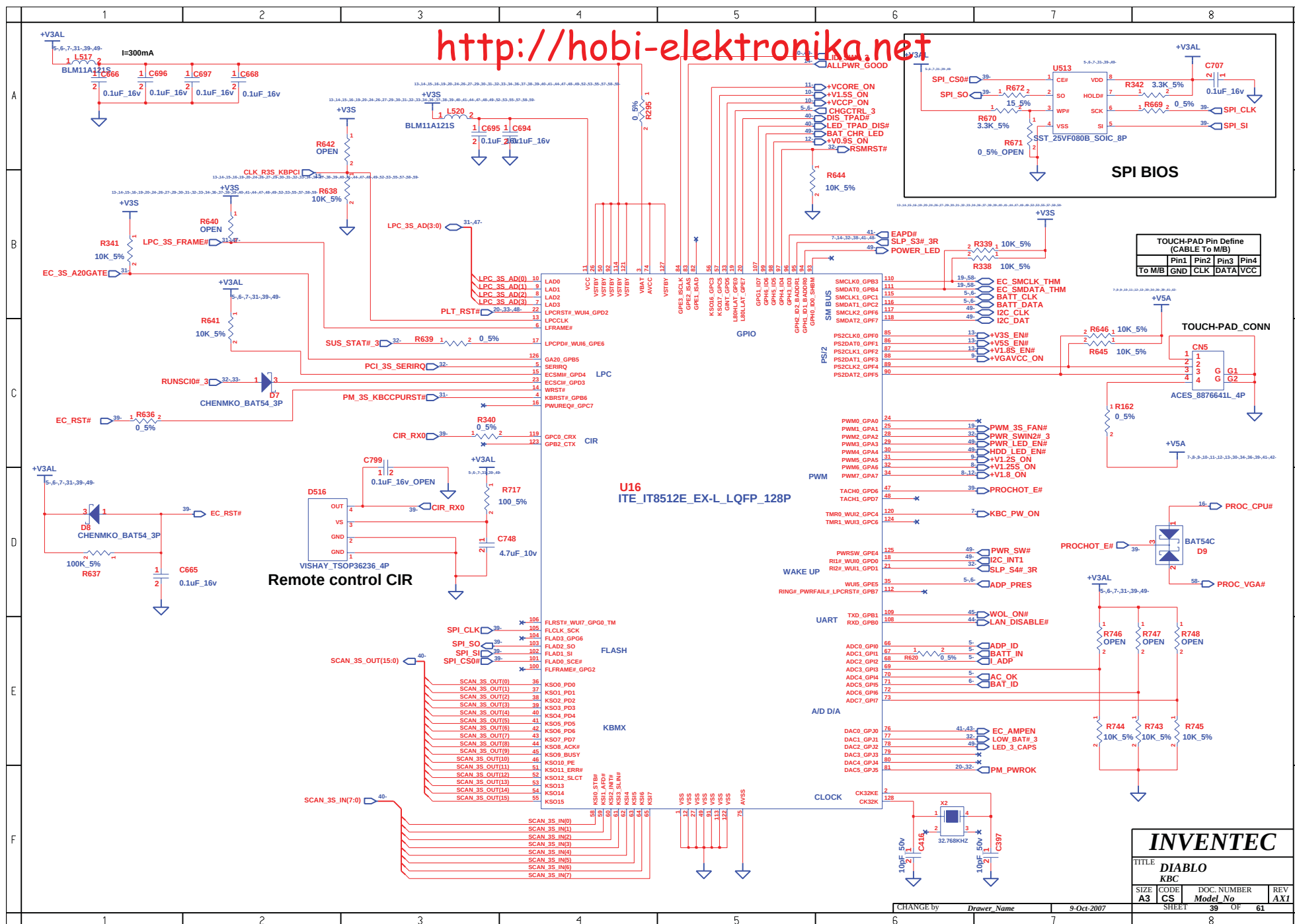
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI

CHANGE by *Drawer Name* 9-Oct-2007

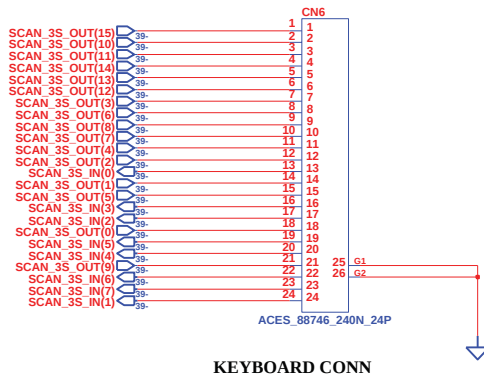
SHEET 37 OF 61

<http://hobi-elektronika.net>

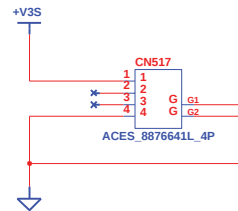




<http://hobi-elektronika.net>

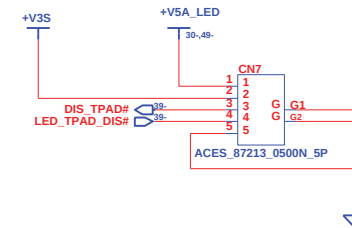


13-14-15-16-19-20-24-26-27-29-30-31-32-33-34-36-37-38-39-40-41-44-47-48-49-52-53-55-57-58-59-



13-14-15-16-19-20-24-26-27-29-30-31-32-33-34-36-37-38-39-40-41-44-47-48-49-52-53-55-57-58-59-

TOUCHPAD LED CONN

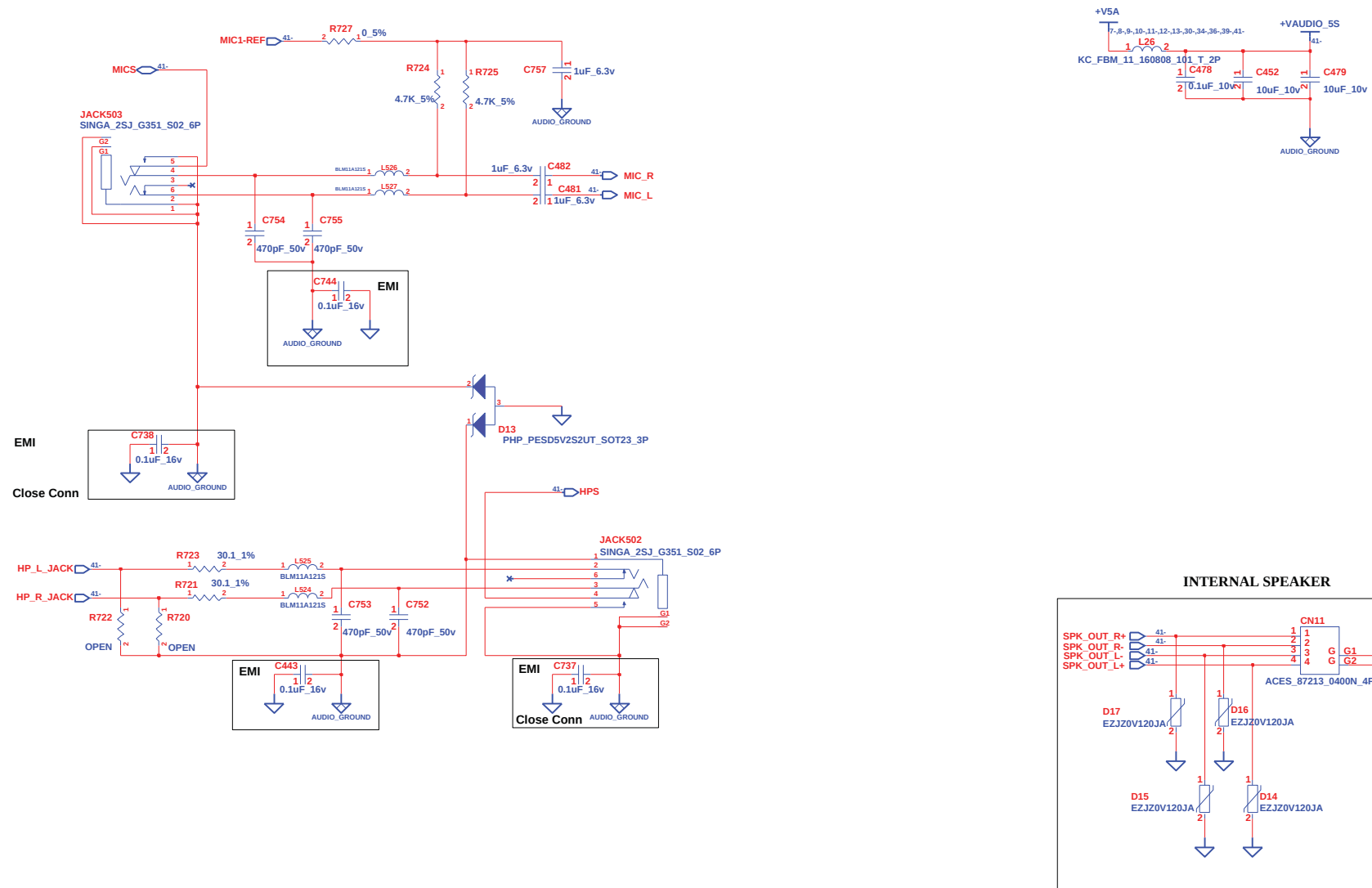


INVENTEC			
TITLE DIABLO KB & TP CONN			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI
CHANGE by Drawer Name		9-Oct-2007	
SHEET		40 OF 61	
1		8	

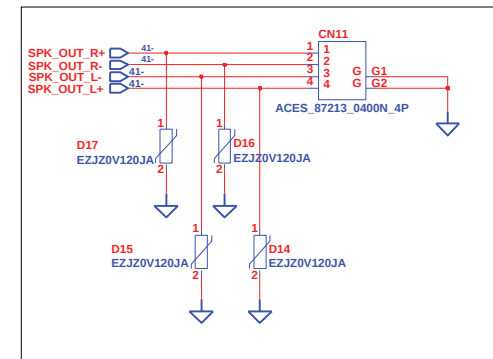
**Locate under CODEC
use 80 mills wide trace
bridging AGND and DGND planes**



<http://hobi-elektronika.net>



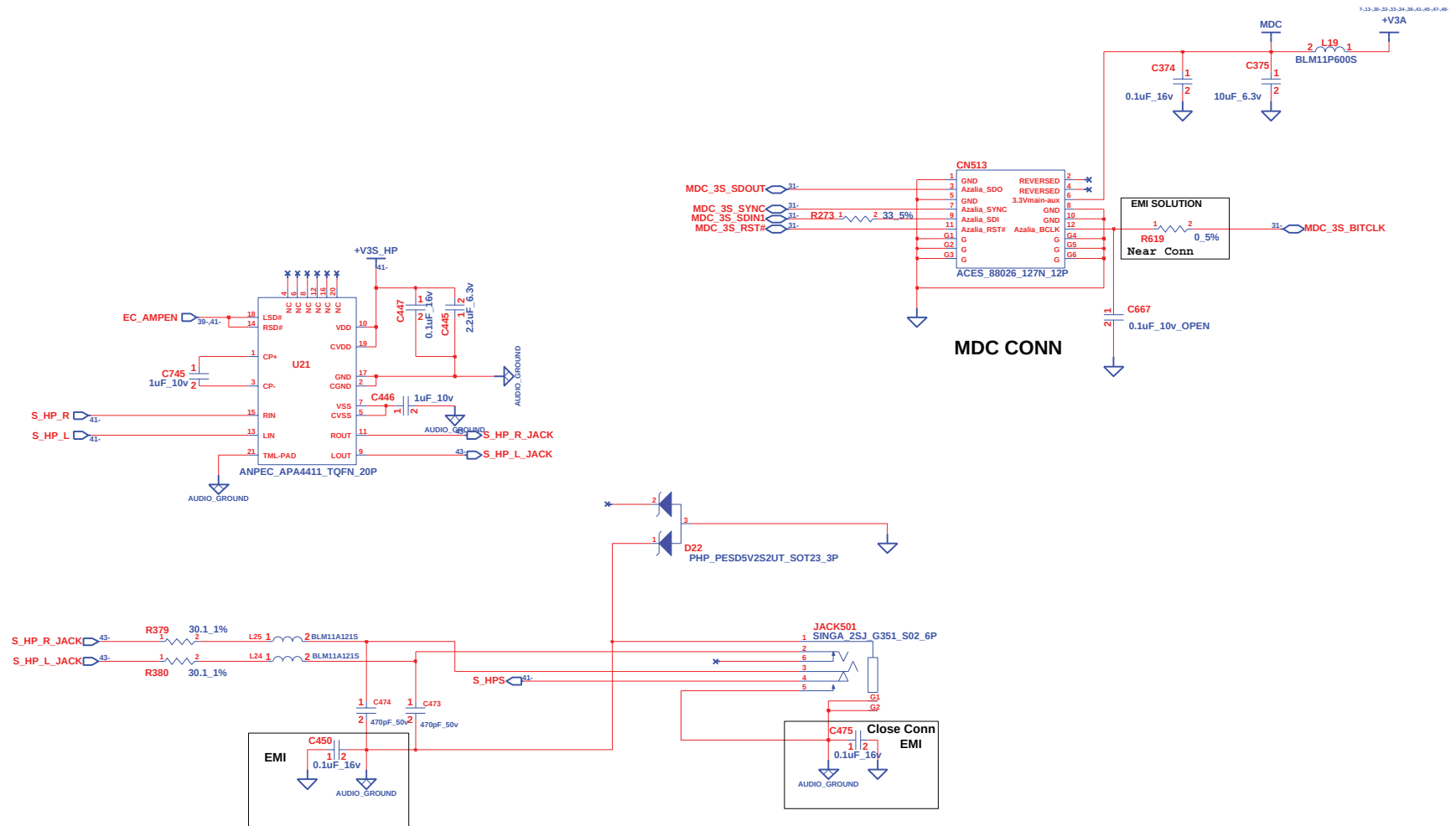
INTERNAL SPEAKER



INVENTEC

TITLE			
DIABLO			
AMP & MIC & HP			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI
CHANGE by		Drawer Name	9-Oct-2007
SHEET		42	OF 61

<http://hobi-elektronika.net>



INVENTEC

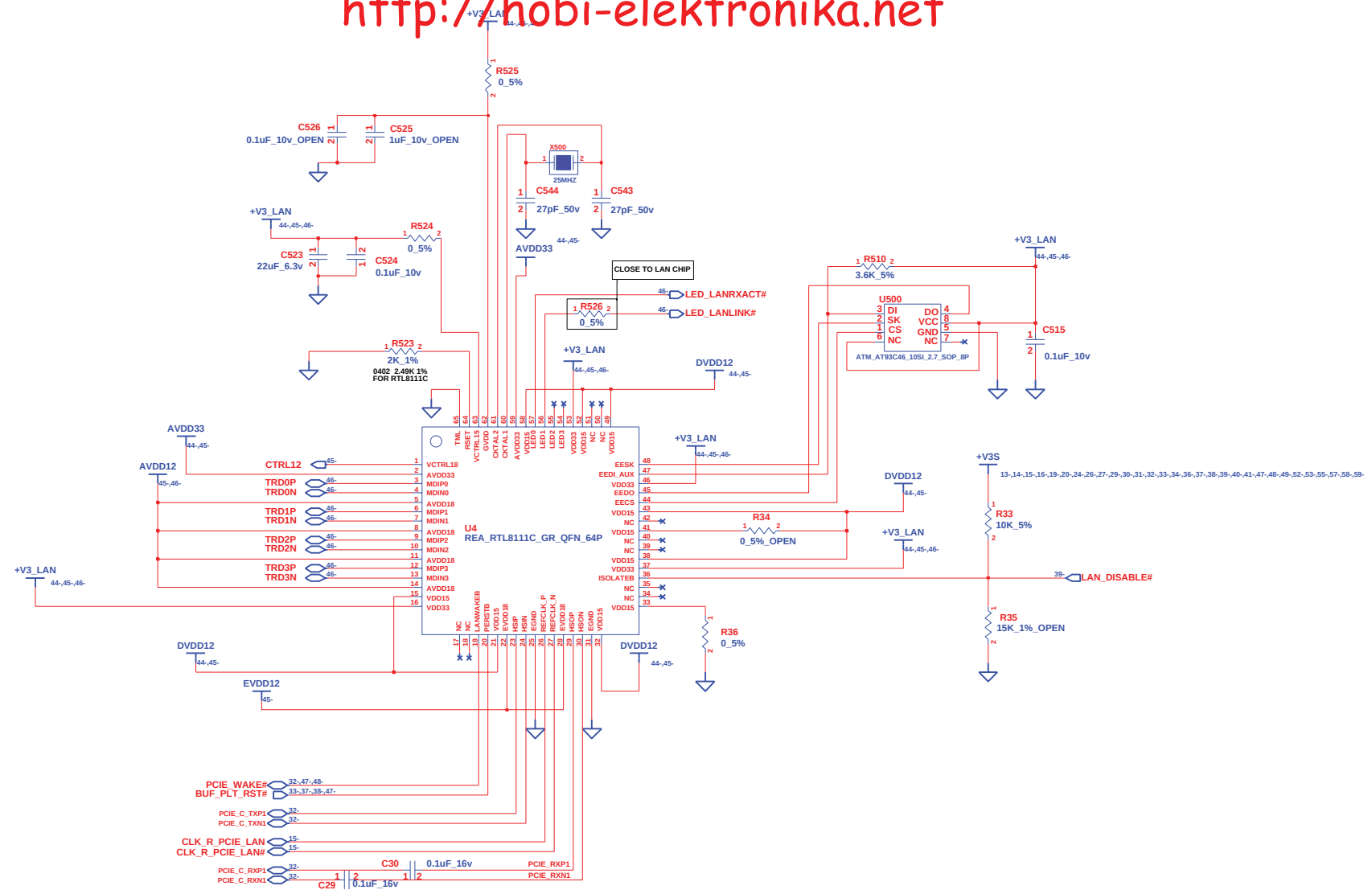
TITLE
DIABLO

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI

CHANGE by *Drawer Name* 11-Oct-2007

SHEET 43 OF 61

<http://hobi-elektronika.net>



1000M: RTL8111C

THERMAL PAD: 9 VIAS TO GND
TWO EGN2 PINS: PUT A LARGE PLANE TO THERMAL PAD

CHANGE by *Drawn Name* 9-Oct-2007

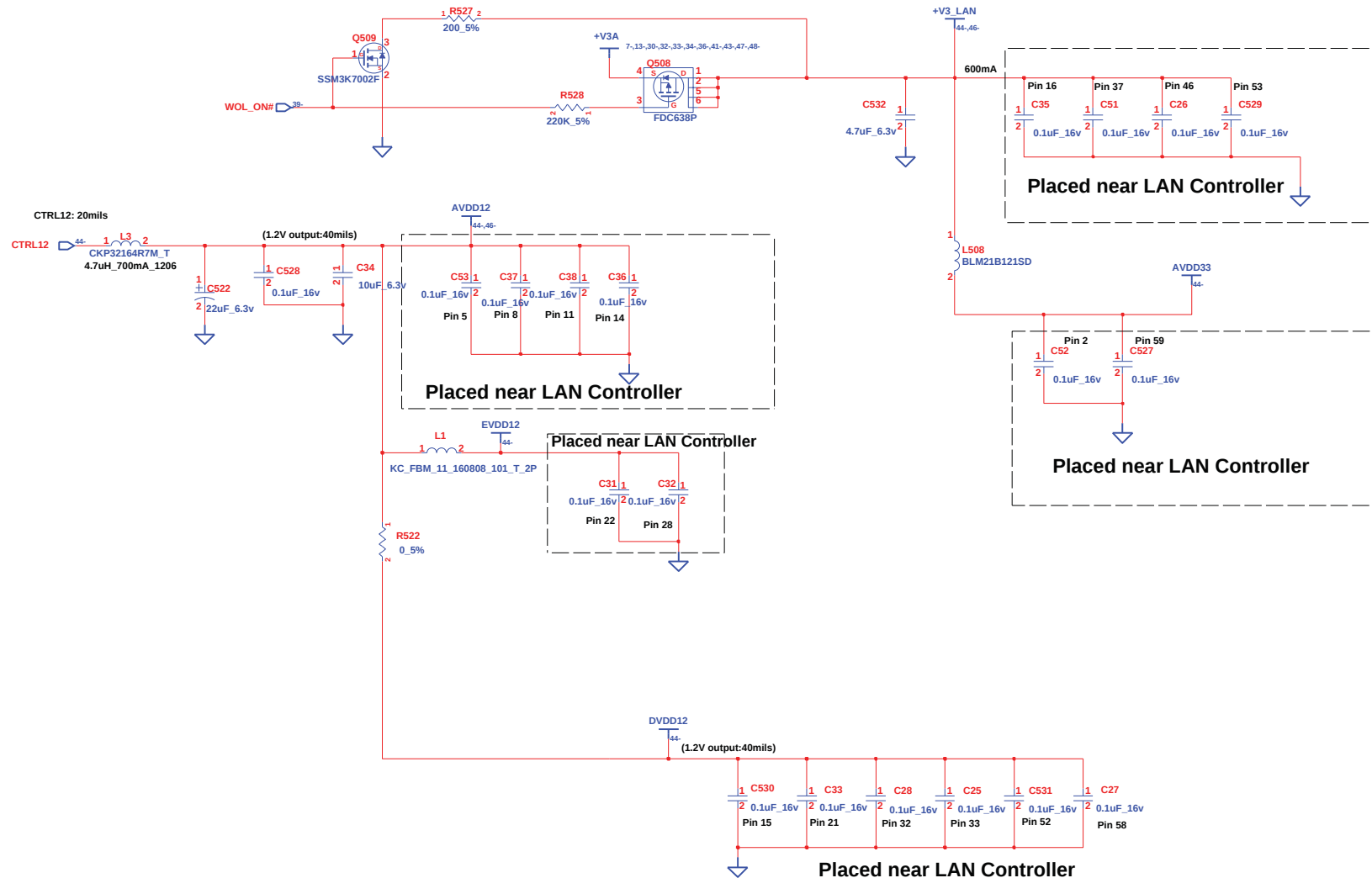
INVENTEC

TITLE
**DIABLO
LAN INTERFACE**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI

SHEET	44	OF	61
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<http://hobi-elektronika.net>

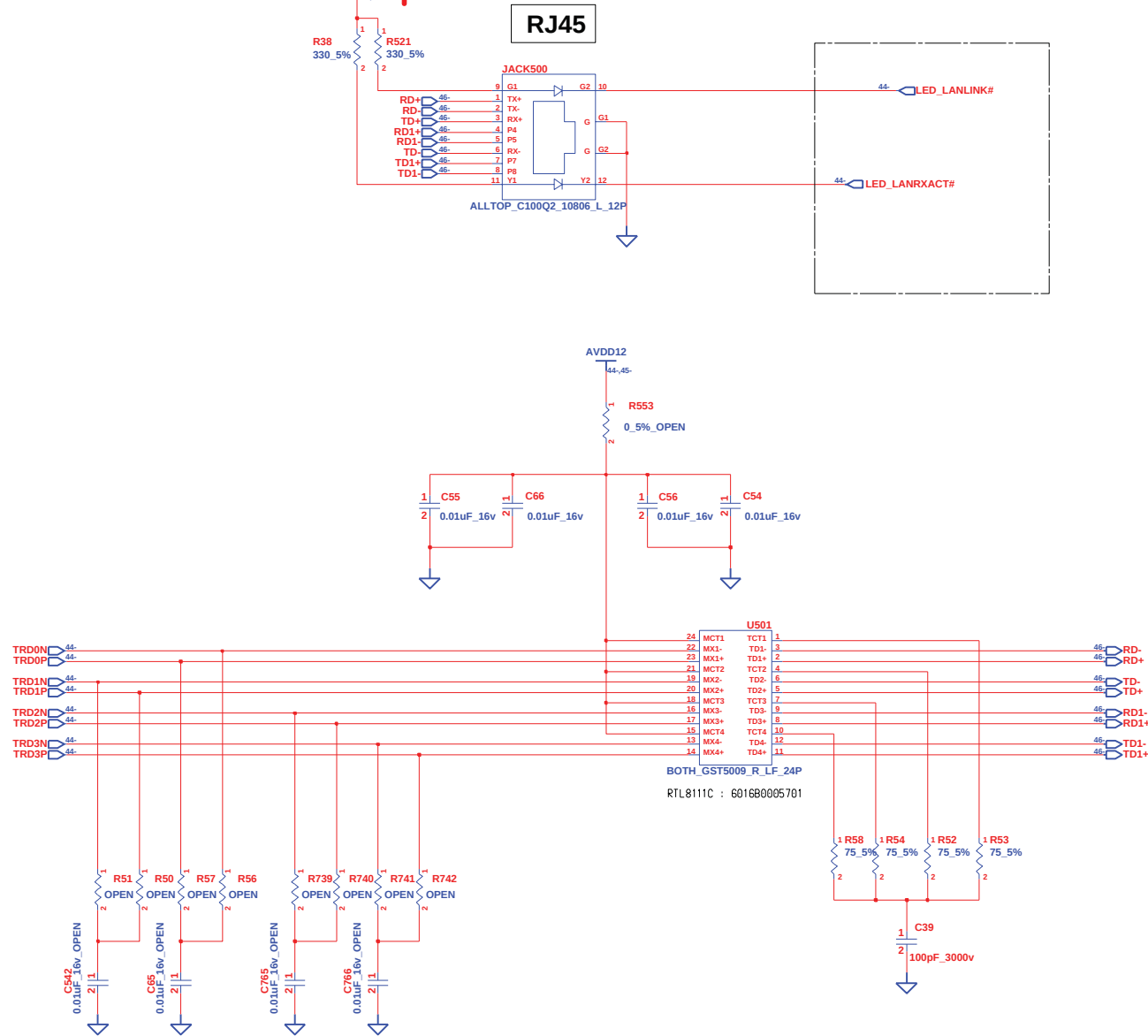


INVENTEC

TITLE			
DIABLO			
LAN POWER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI
SHEET		45	OF 61

CHANGE by *Drawn Name* 9-Oct-2007

<http://hobi-elektronika.net>



LAYOUT NOTE : Place termination resistors and caps as close to LAN controller as possible

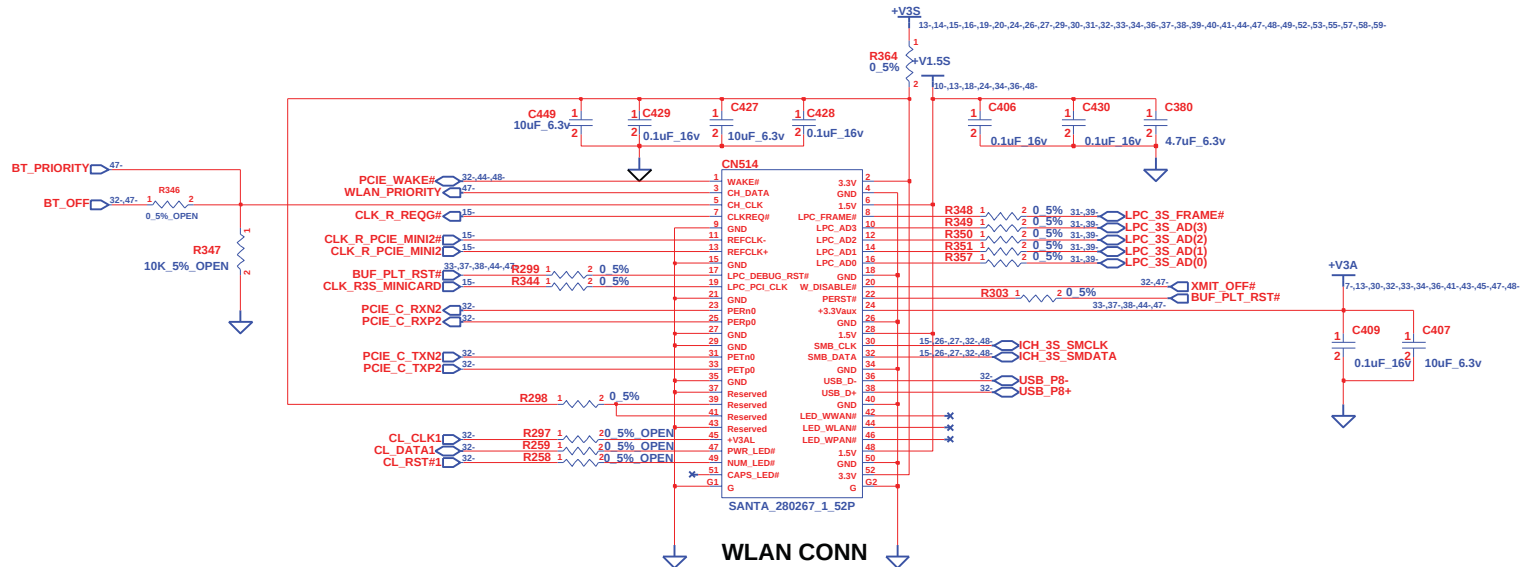
INVENTEC

TITLE			
DIABLO LAN RJ45 CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI
SHEET		OF	61

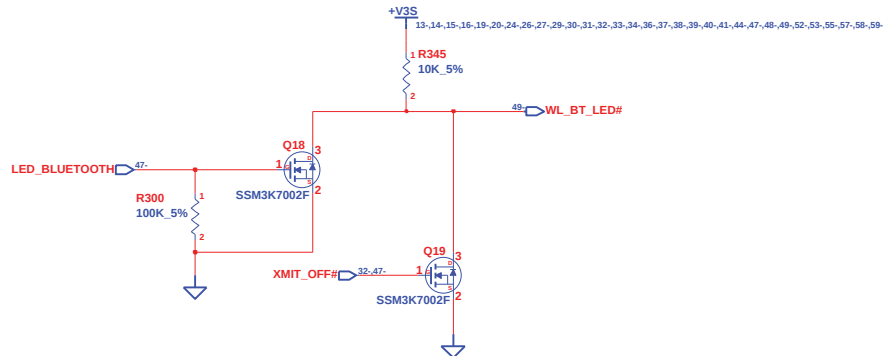
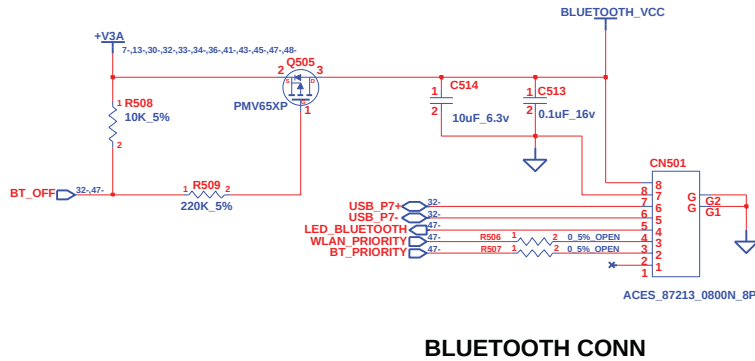
CHANGE by *Drawn Name* 9-Oct-2007

46

<http://hobi-elektronika.net>



R261,R262,R263,R264,R265 place as close to LPC signal as possible to minimize stub length for LPC bus
(will be NI for FCS)



INVENTEC

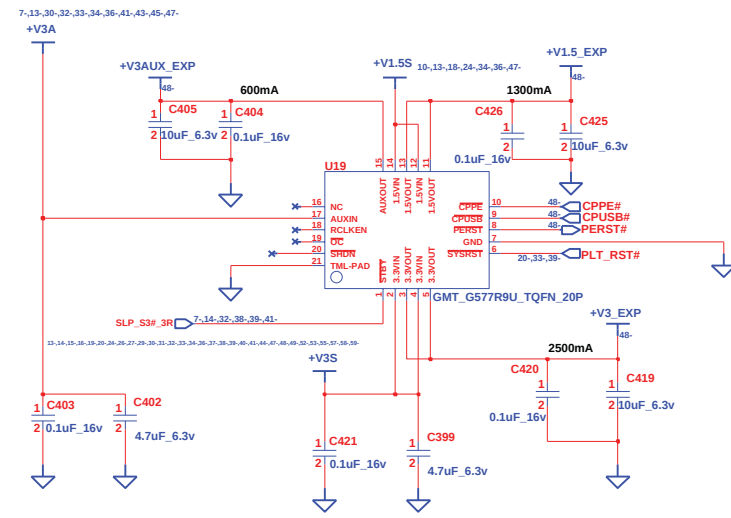
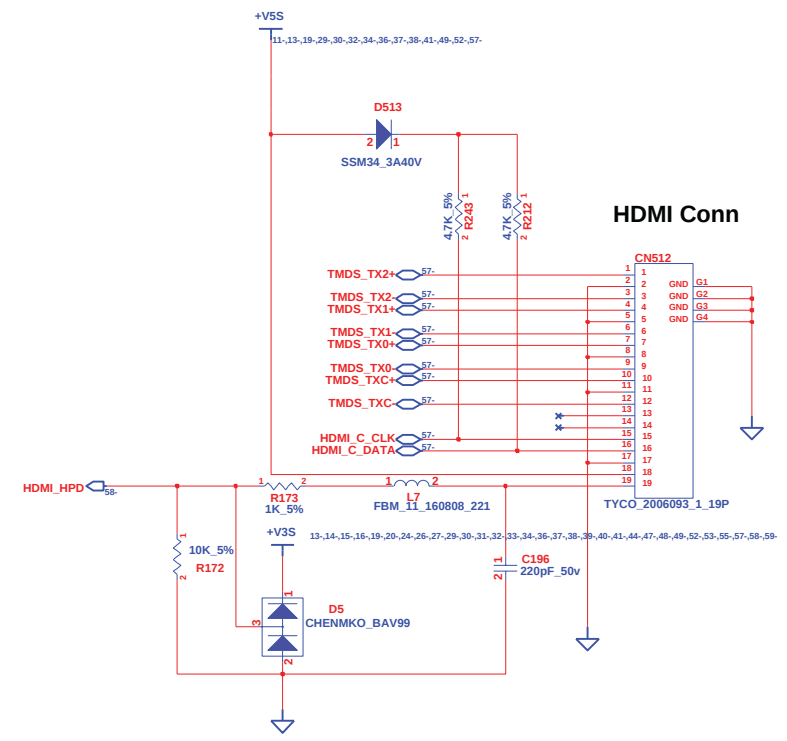
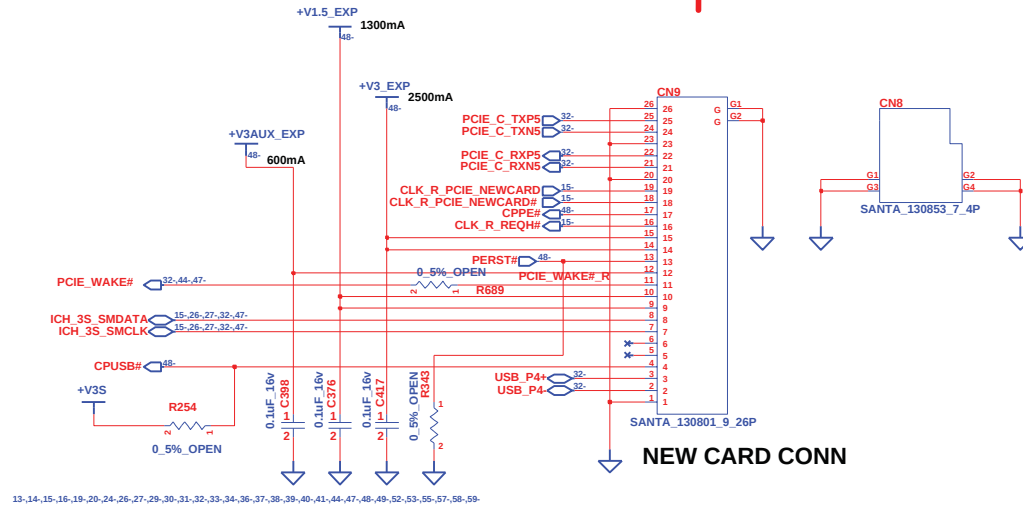
TITLE
**DIABLO
MINICARD CONN**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI

CHANGE by *Drawn Name* 9-Oct-2007

SHEET 47 OF 61

<http://hobi-elektronika.net>

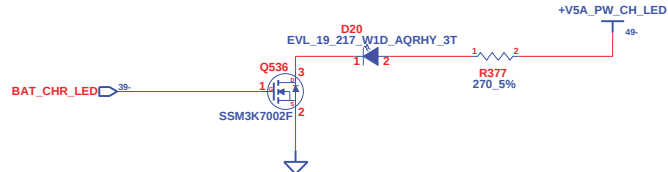


DRAWER	EE	DATE	POWER	DATE	INVENTEC			
DESIGN								
CHECK					TITLE DIABLO			
RESPONSIBLE								
SIZE =	3			VER:		SIZE	CODE	DOC. NUMBER
FILE NAME:	XXXX-XXXXXX-XX					A3	CS	Model No
P/N	XXXXXXXXXX					SHEET	48	OF 61

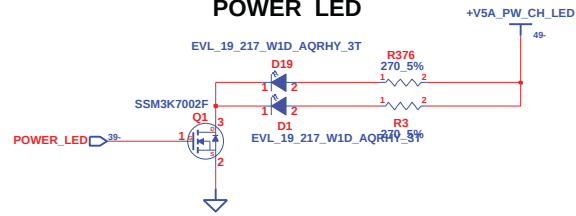
LED P/N: 6011B0072901

LID SWITCH

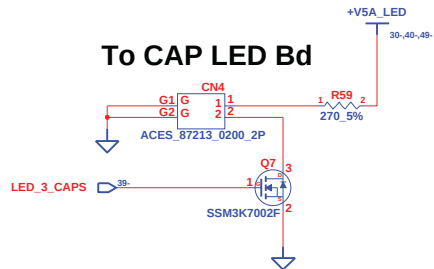
BATTERY-CHARGE LED



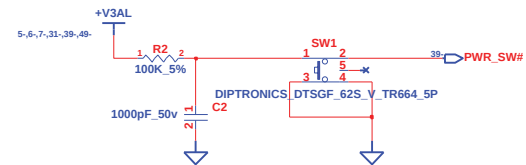
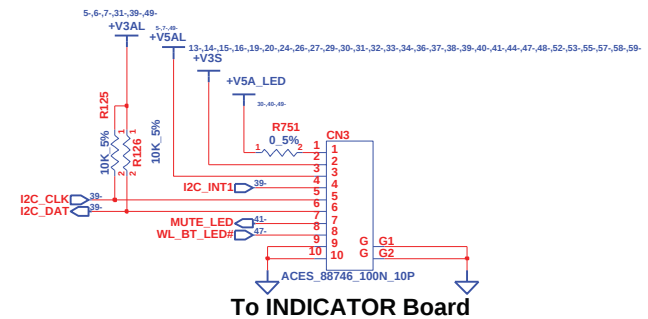
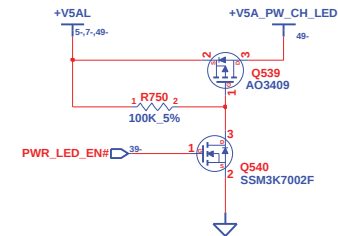
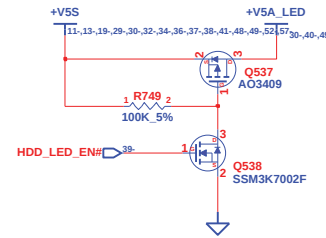
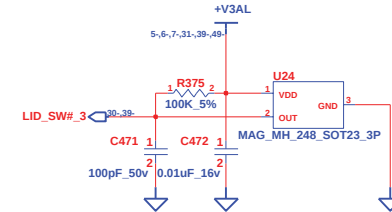
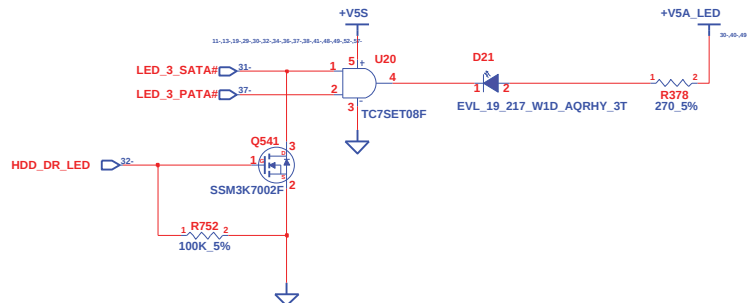
POWER LED



To CAP LED Bd



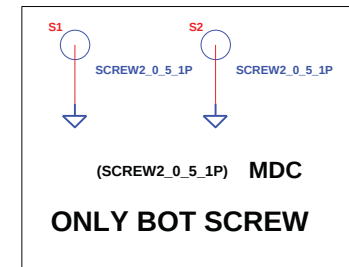
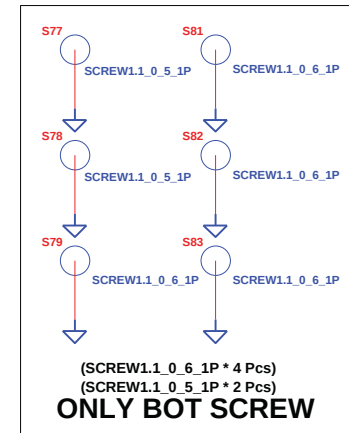
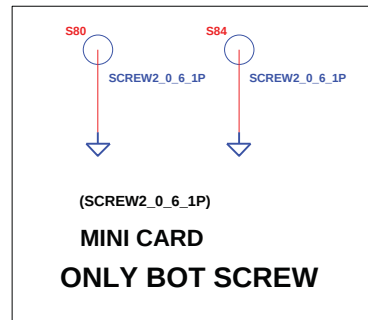
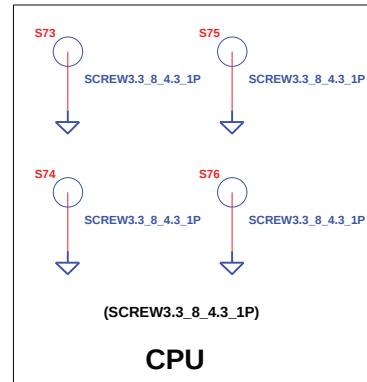
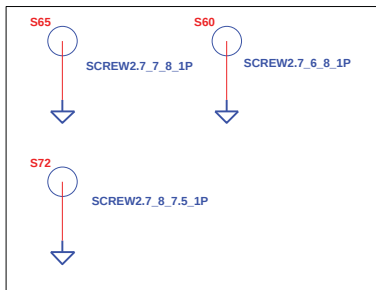
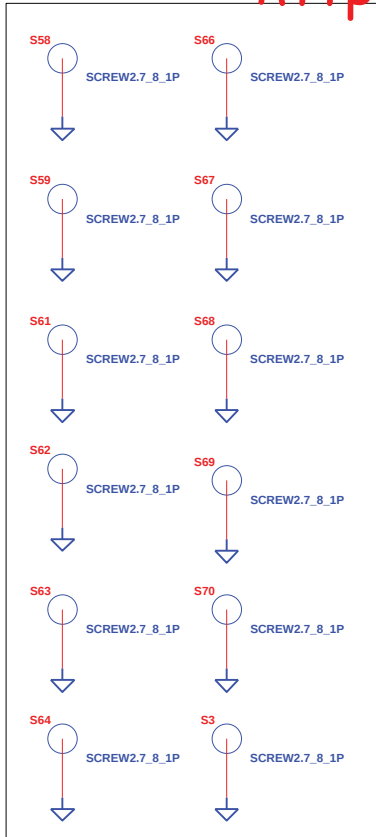
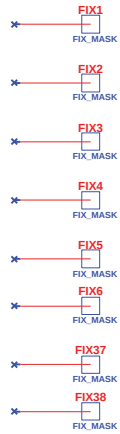
HDD & ODD LED



POWER BUTTON

INVENTEC			
TITLE DIABLO BUTTON & LED			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI
CHANGE by Drawer Name		9-Oct-2007	
SHEET 49		OF 61	

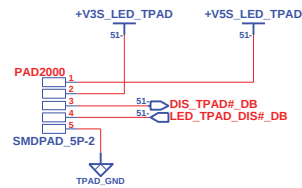
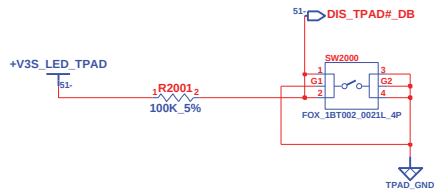
<http://hobi-elektronika.net>



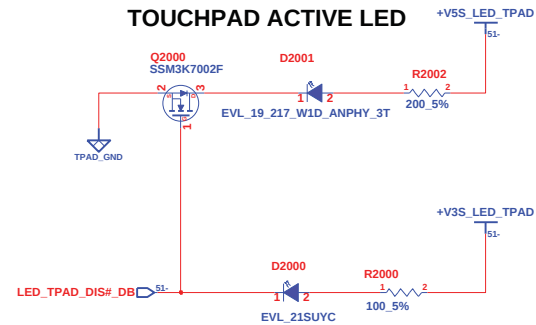
INVENTEC				
TITLE DIABLO SCREW				
SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI	
CHANGE by Drafter Name		9-Oct-2007	SHEET 50	OF 61
1		2	3	8

<http://hobi-elektronika.net>

TOUCHPAD-DISABLE BUTTOM_DB



TOUCHPAD ACTIVE LED



TouchPad Disable DB

INVENTEC

TITLE			
DIABLO FINGER PRINTER CONN.			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI

CHANGE by *Drawn Name* 9-Oct-2007

SHEET 51 OF 61

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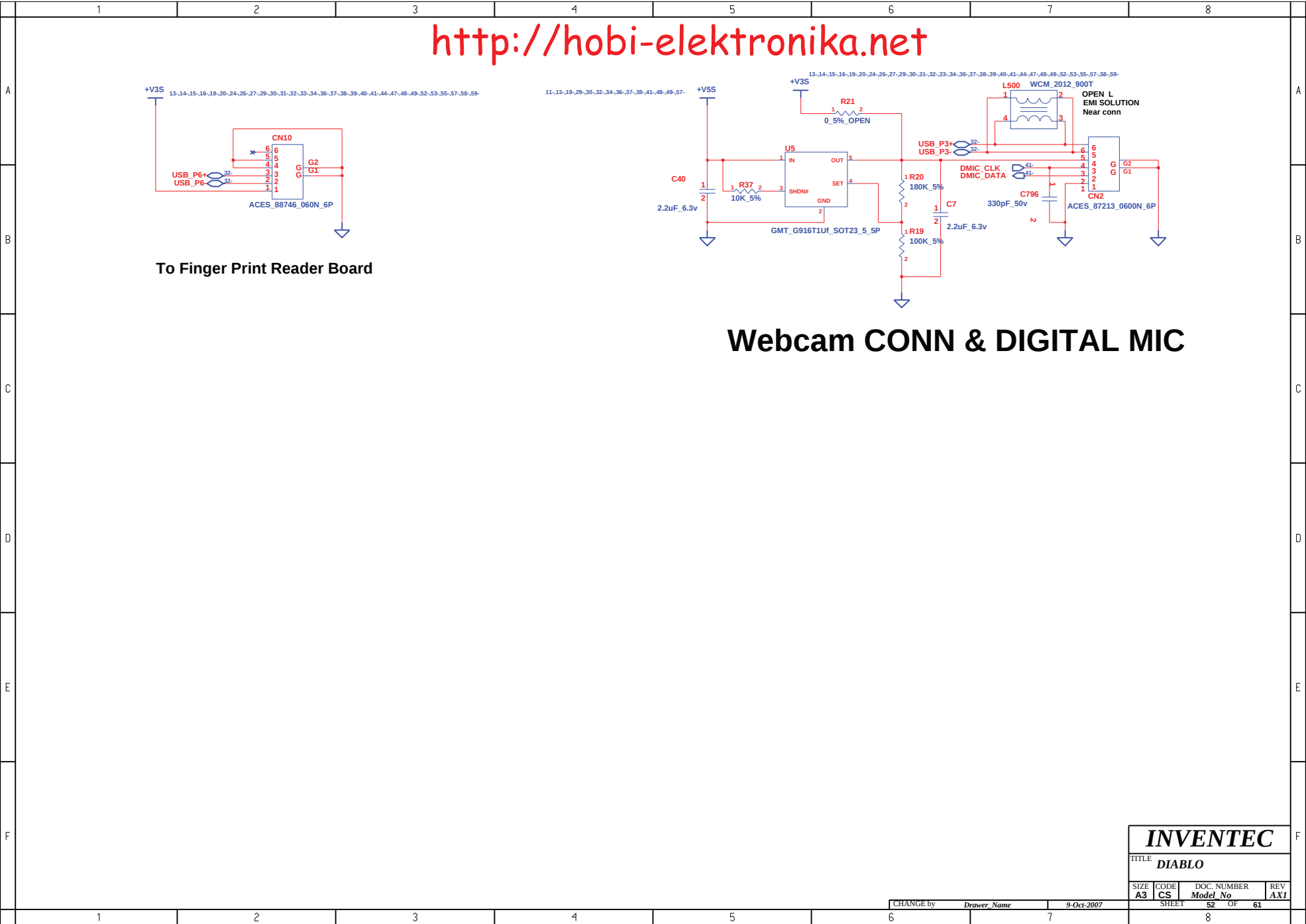
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52



http://hobi-elektronika.net

To Finger Print Reader Board

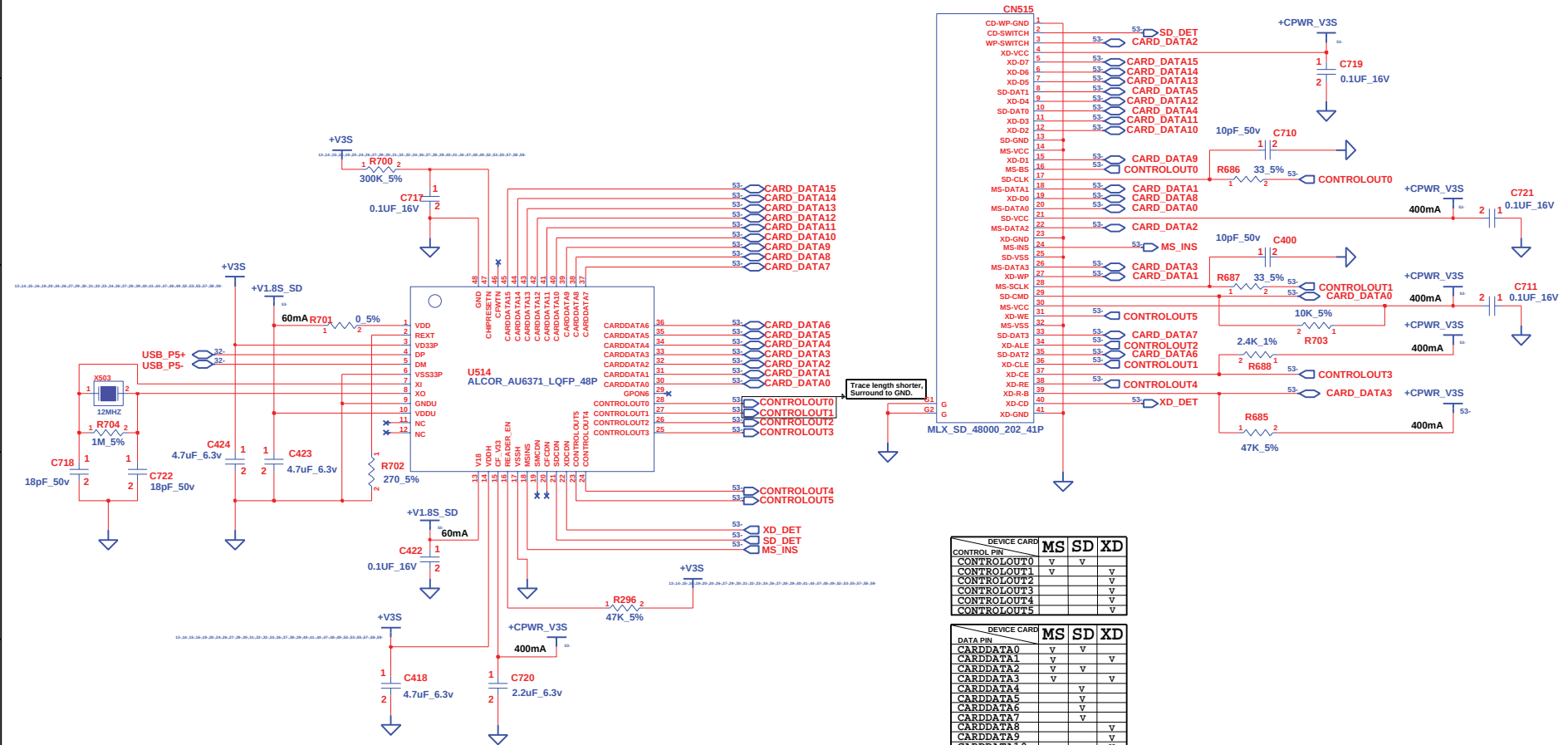
Webcam CONN & DIGITAL MIC

INVENTEC
TITLE DIABLO
SIZE A3 CODE CS DOC. NUMBER Model No REV AXI
CHANGE by Drawer Name 9-Oct-2007 SHEET 52 OF 61

[illegible]

<http://hobi-elektronika.net>

Cardreader Conn



CONTROL PIN	MS	SD	XD
CONTROL0	V	V	
CONTROL1	V	V	V
CONTROL2	V	V	V
CONTROL3	V	V	V
CONTROL4	V	V	V
CONTROL5	V	V	V

DATA PIN	MS	SD	XD
CARD0	V	V	V
CARD1	V	V	V
CARD2	V	V	V
CARD3	V	V	V
CARD4	V	V	V
CARD5	V	V	V
CARD6	V	V	V
CARD7	V	V	V
CARD8	V	V	V
CARD9	V	V	V
CARD10	V	V	V
CARD11	V	V	V
CARD12	V	V	V
CARD13	V	V	V
CARD14	V	V	V
CARD15	V	V	V

INVENTEC

TITLE
DIABLO
5 IN1/1394 CONN

SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI
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CHANGE by *Drawn Name* 9-Oct-2007

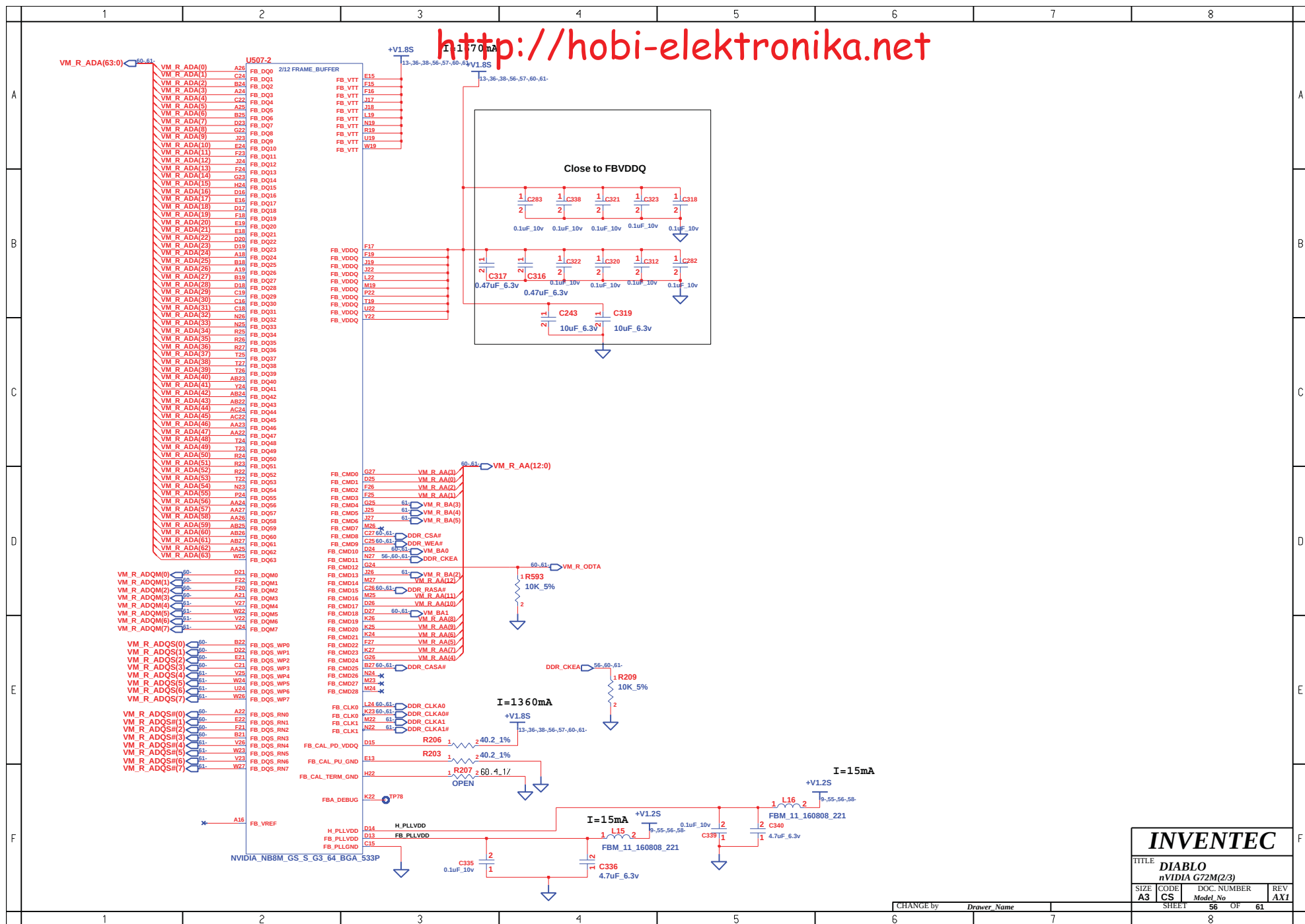
SHEET 53 OF 61

<http://hobi-elektronika.net>

	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE DIABLO			
5 IN 1/1394 CONN			
SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV AXI
SHEET 54		OF 61	

CHANGE by *Drawn Name* 9-Oct-2007



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CRT

LVDS

S-Video

HDMI

MP

INVENTEC

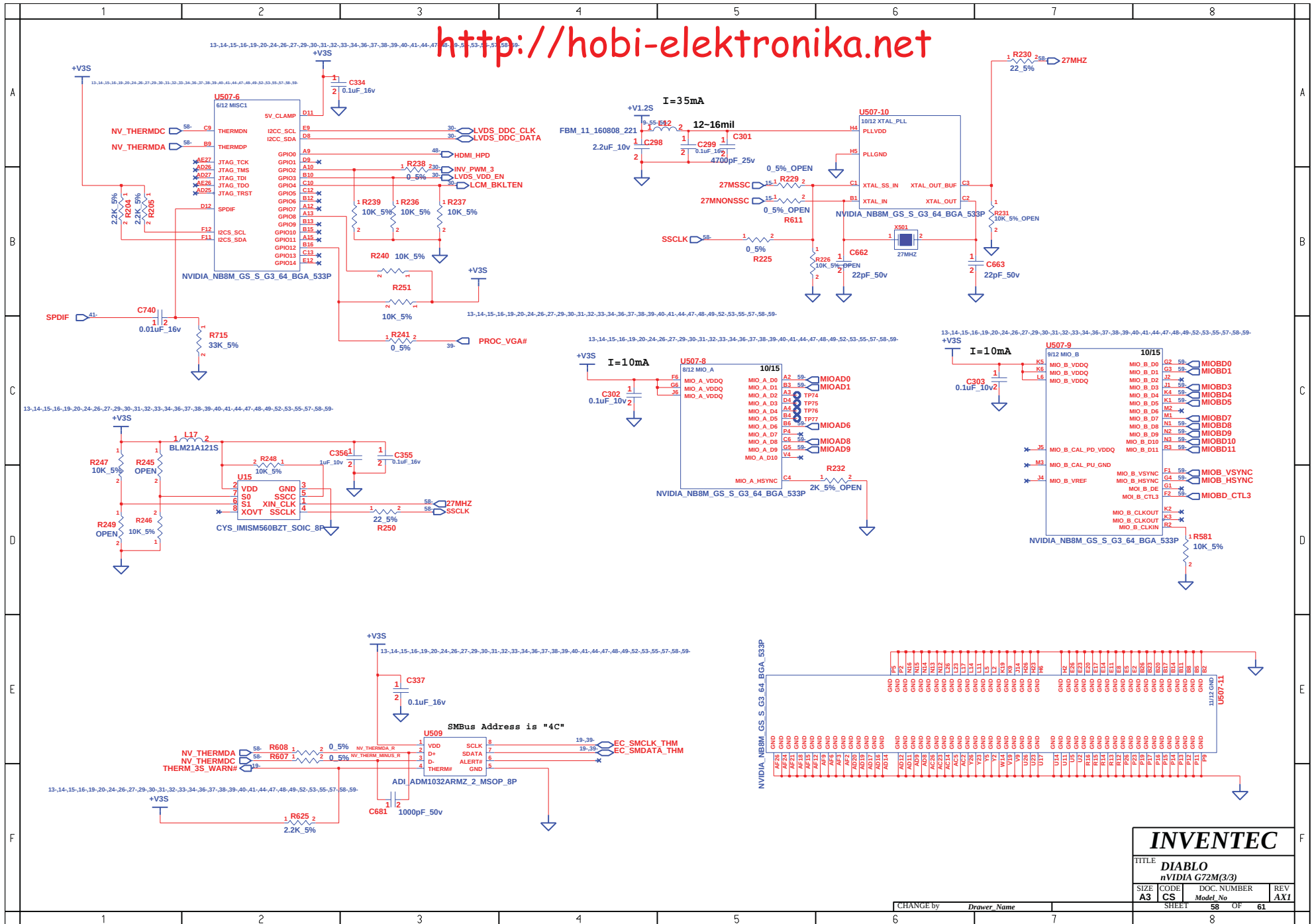
TITLE: **DIABLO**
nVIDIA G72M(2/3)

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AX1

SHEET 57 OF 61

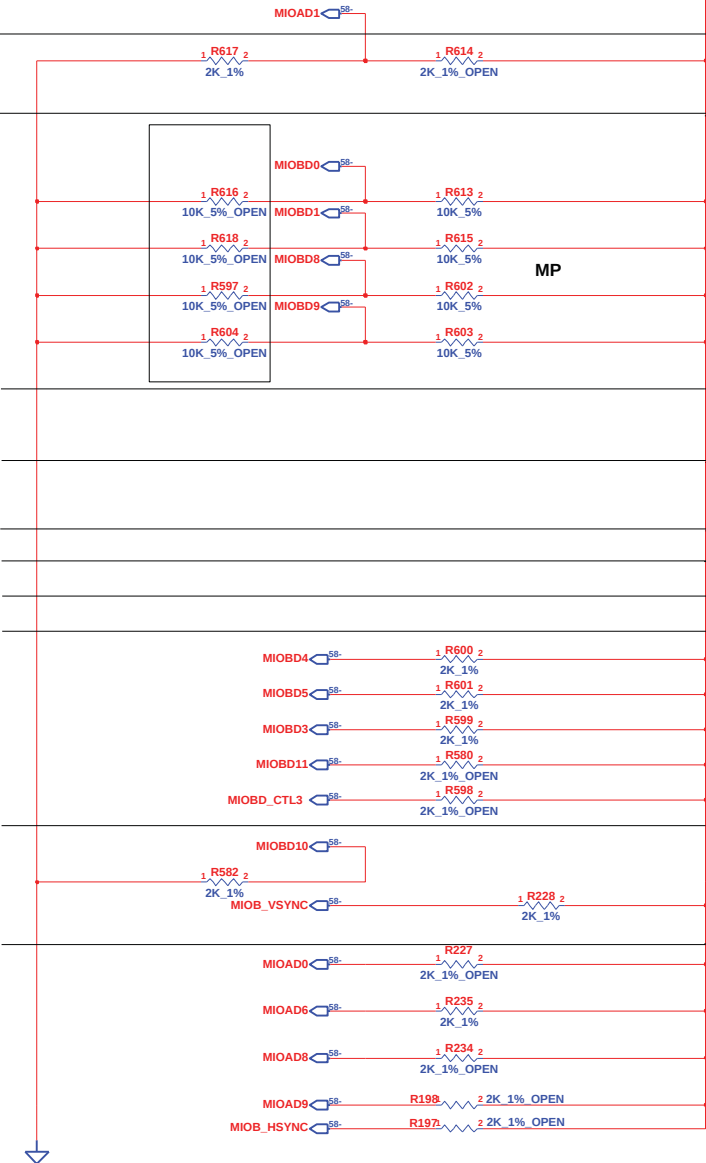
CHANGE by: _____ Drawer Name: _____

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STRAP BIT LOGIC 0 LOGIC 1



SUB_VENDOR 0: SYSTEM BIOS
1: ADAPTER BIOS DEFAULT

RAM_CFG[3:0]	NB8P-GS	NB8M-GS
RAM_CFG_0	0001: Samsung 16M X 16 DDR2 0010: Infineon 16M X 16 DDR2	1001: Samsung 16M X 16 DDR2 1010: Infineon 16M X 16 DDR2
RAM_CFG_1	0011: Hynix 16M X 16 DDR2 0101: Samsung 32M X 16 DDR2	1011: Hynix 16M X 16 DDR2 1101: Samsung 32M X 16 DDR2
RAM_CFG_2	0110: Infineon 32M X 16 DDR2 0111: Hynix 32M X 16 DDR2	1110: Infineon 32M X 16 DDR2 1111: Hynix 32M X 16 DDR2
RAM_CFG_3		

PCI_DEVID_0 MS_0111: NB8P-GS 0x0407
PCI_DEVID_1 MS_0101: NB8P-SE 0x0425
MS_0111: NB8M-GS 0x0427
PCI_DEVID_2 MS_1000: NB8M-SE 0x0428
PCI_DEVID_3
PCI_DEVID_4

ROM_TYPE_0 MS_00: PARALLEL
MS_01: SERIAL AT25F
MS_10: SERIAL SST45VF
MS_11: RESERVED
ROM_TYPE_1 DEFAULT

PEX_PLL_EN_TERM100
3GIO_PADCFG_LUT_ADR[0]
3GIO_PADCFG_LUT_ADR[1]
3GIO_PADCFG_LUT_ADR[2]
3GIO_PADCFG_LUT_ADR[3]

INVENTEC

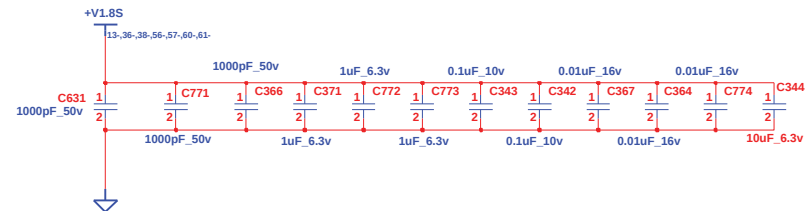
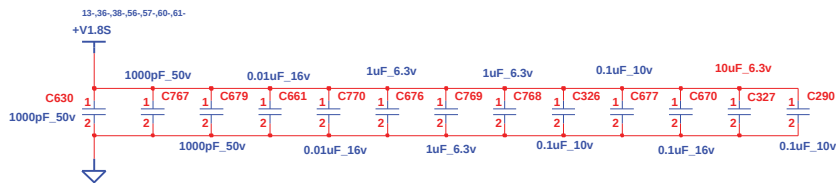
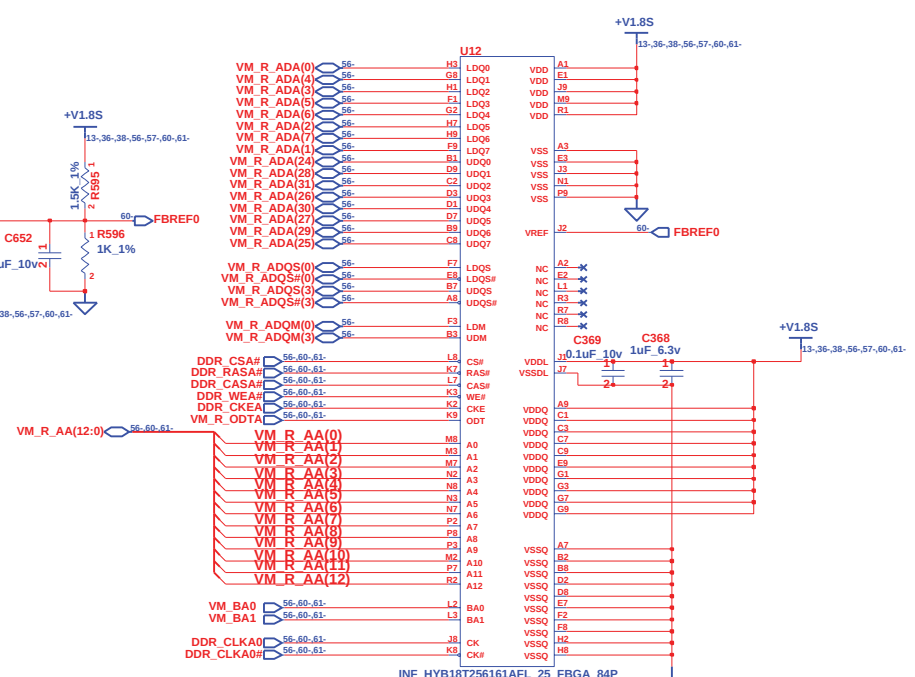
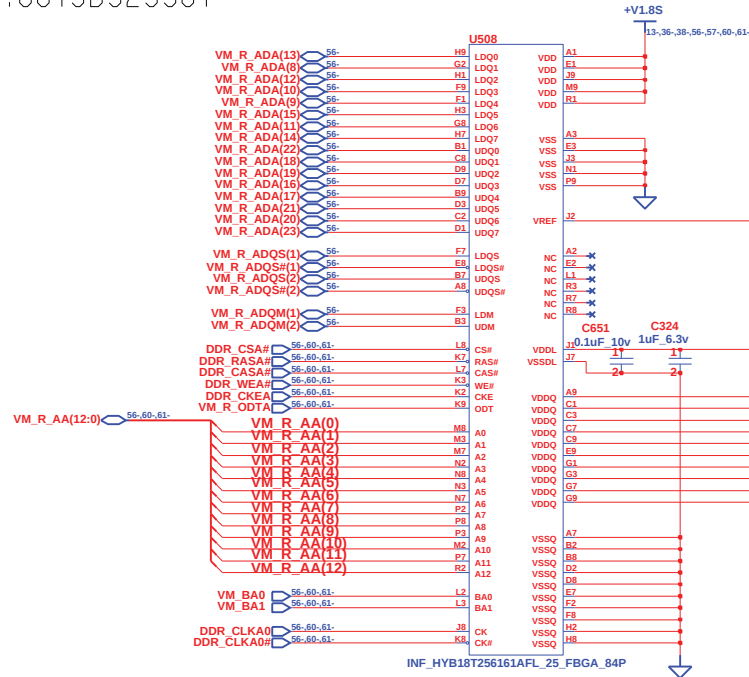
TITLE DIABLO nVIDIA G72M(2/3)			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI
SHEET		59 OF	61

CHANGE by Drawer Name

8

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P/N:6019B329301



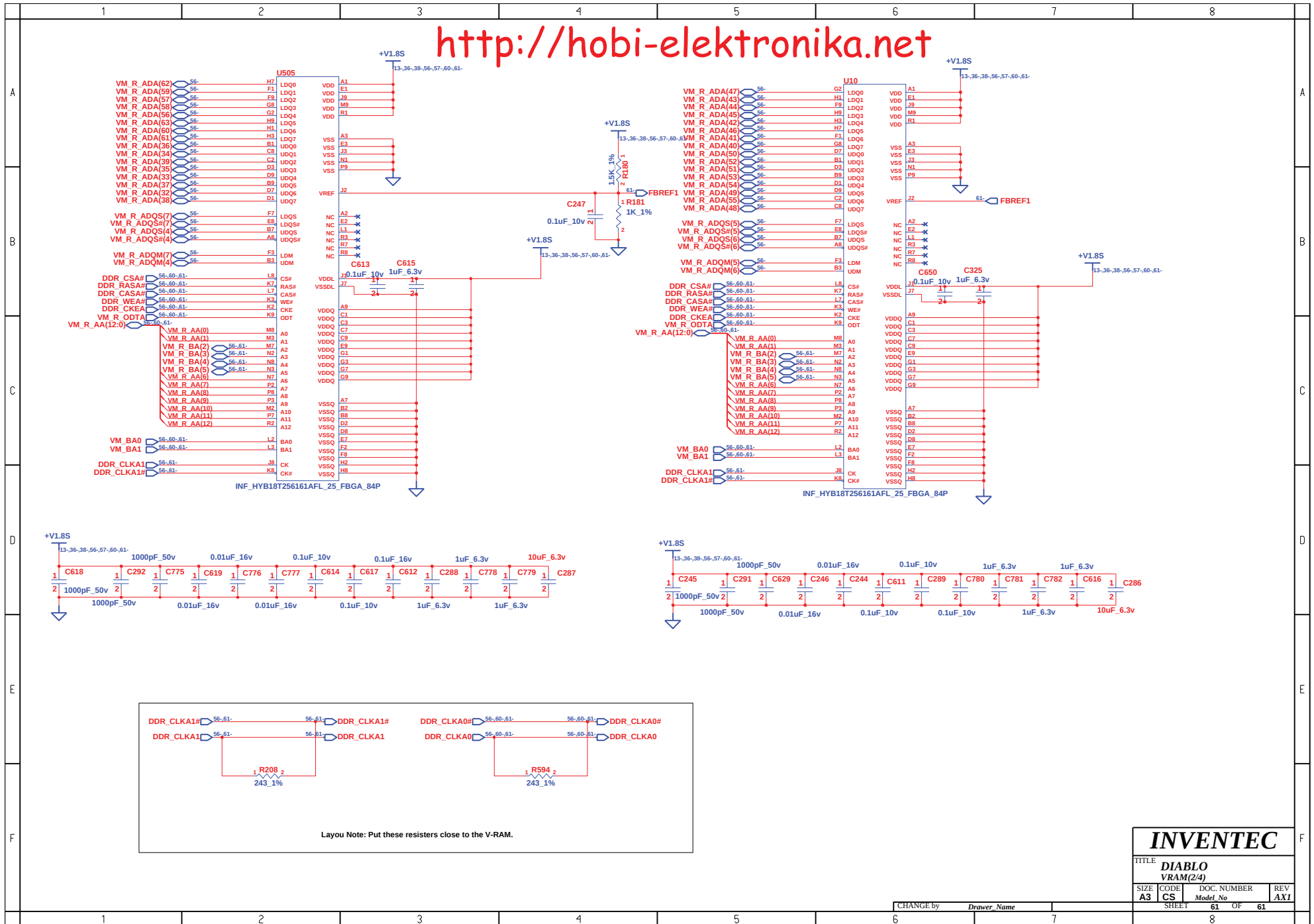
INVENTEC

TITLE DIABLO VRAM(1/4)			
SIZE A3	CODE CS	DOC. NUMBER Model_No	REV AXI
SHEET		60	OF 61

CHANGE by *Drawn Name*

8

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INVENTEC

TITLE DIABLO VRAM(2/4)			
SIZE A3	CODE CS	DOC. NUMBER Model_No	REV AXI
CHANGE by Drawer Name		SHEET 61 OF 61	