

ASPEN

UMA MV - BUILD

FINAL BUILD 2004.12.13

DATE	CHANGE NO.	REV

	EE	DATE	POWER	DATE	INVENTEC			
DRAWER								
DESIGN								
CHECK								
RESPONSIBLE					TITLE	ASPEN-UMA		
SIZE = 3					VER :			
FILE NAME : XXXX-XXXXXX-XX					SHEET	OF		
P/N	XXXXXXXXXXXX				A3	CS	DOC. NUMBER	REV

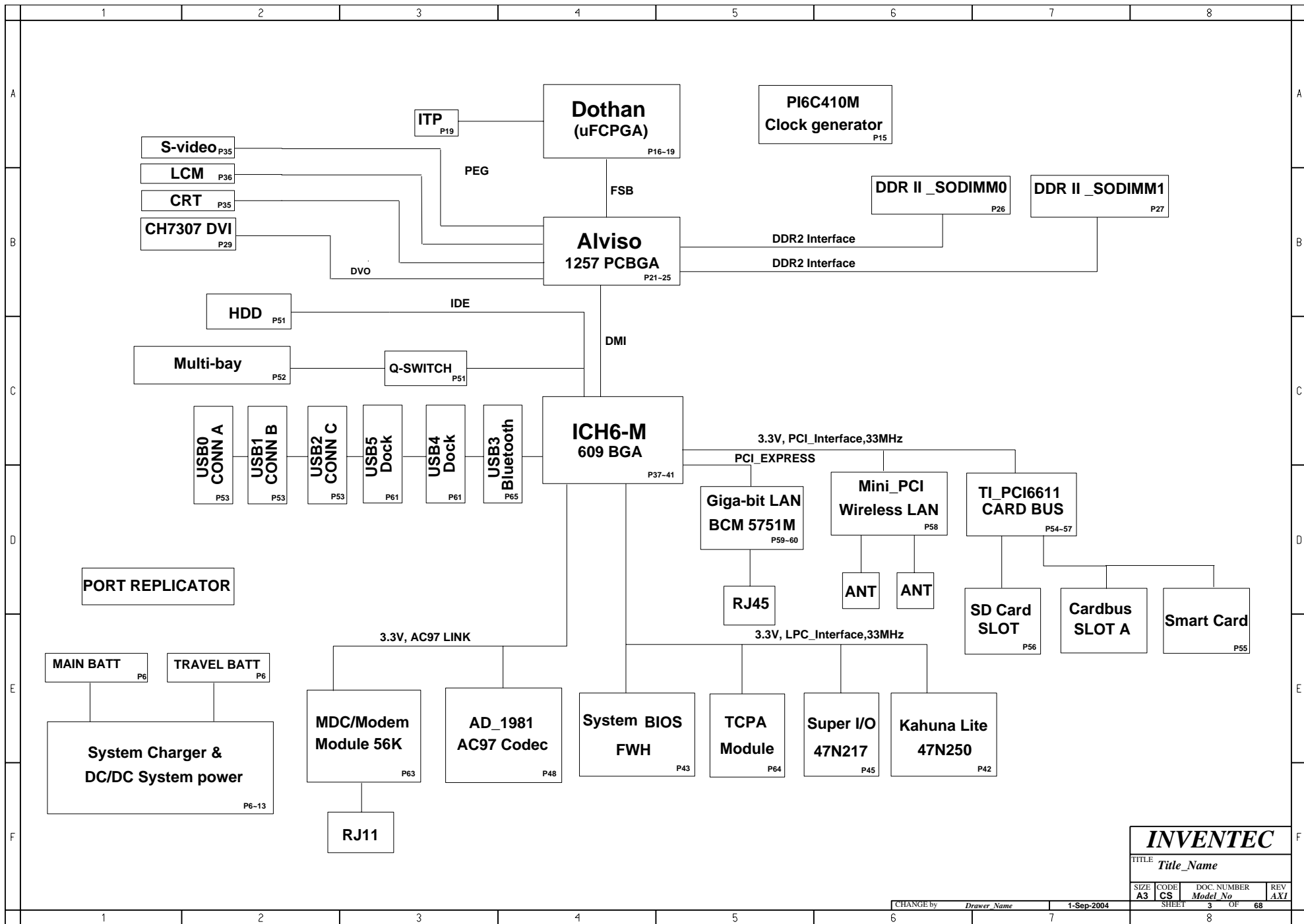
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INVENTEC			
TITLE <i>Title_Name</i>			
SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV AXI
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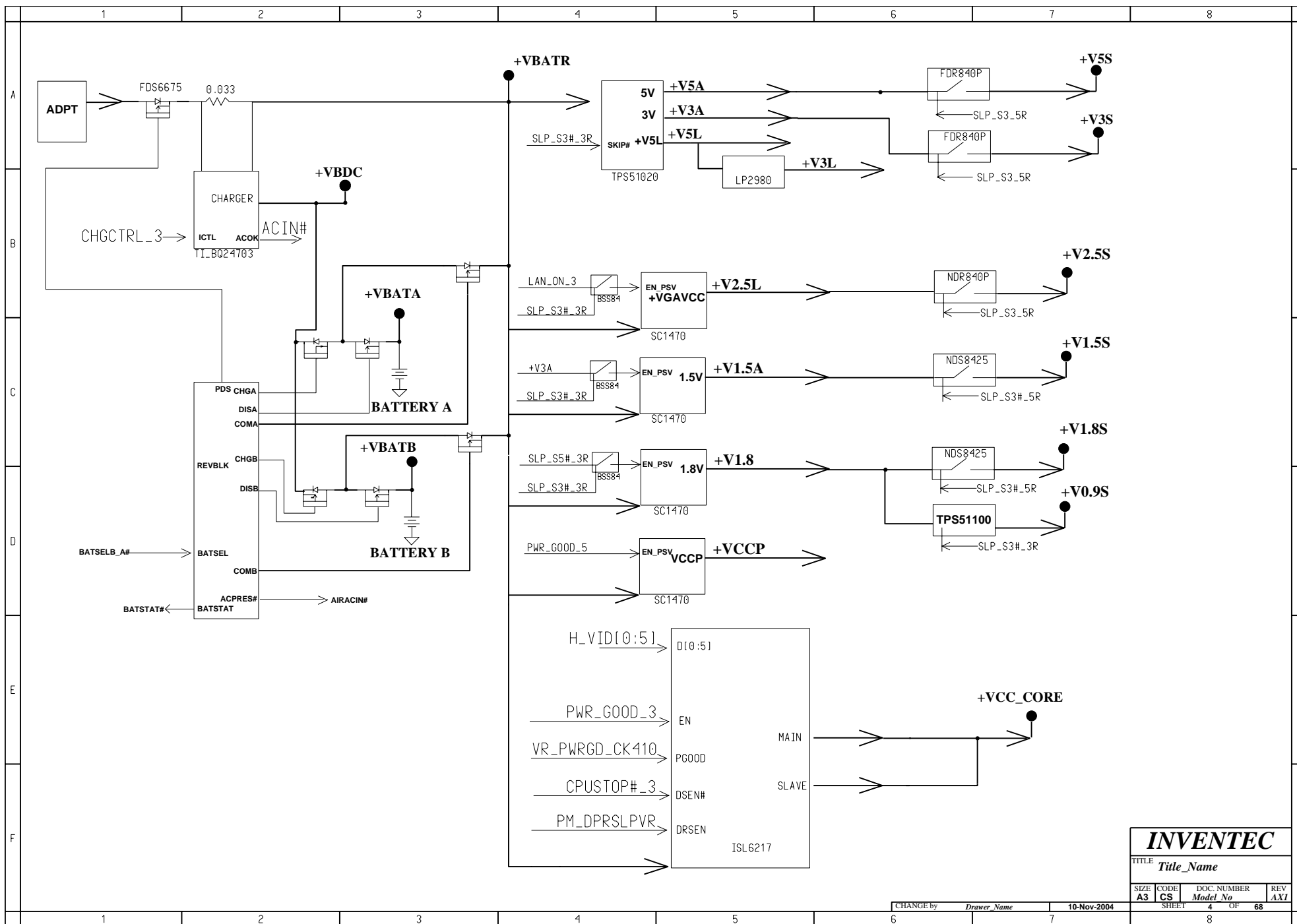
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TITLE Title_Name

SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI
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CHANGE by Drawer_Name 1-Sep-2004

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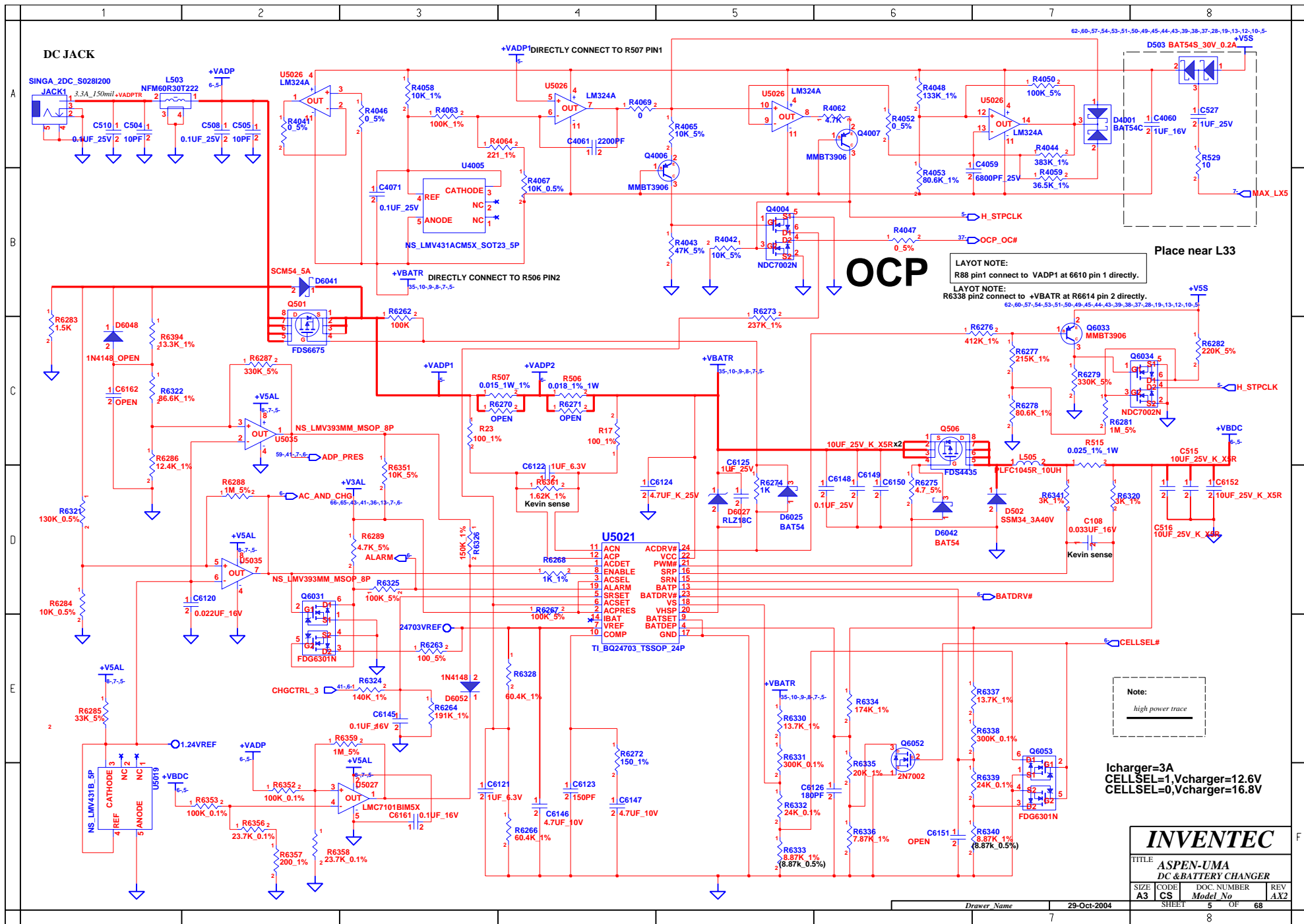
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SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI
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CHANGE by Drawer_Name 10-Nov-2004

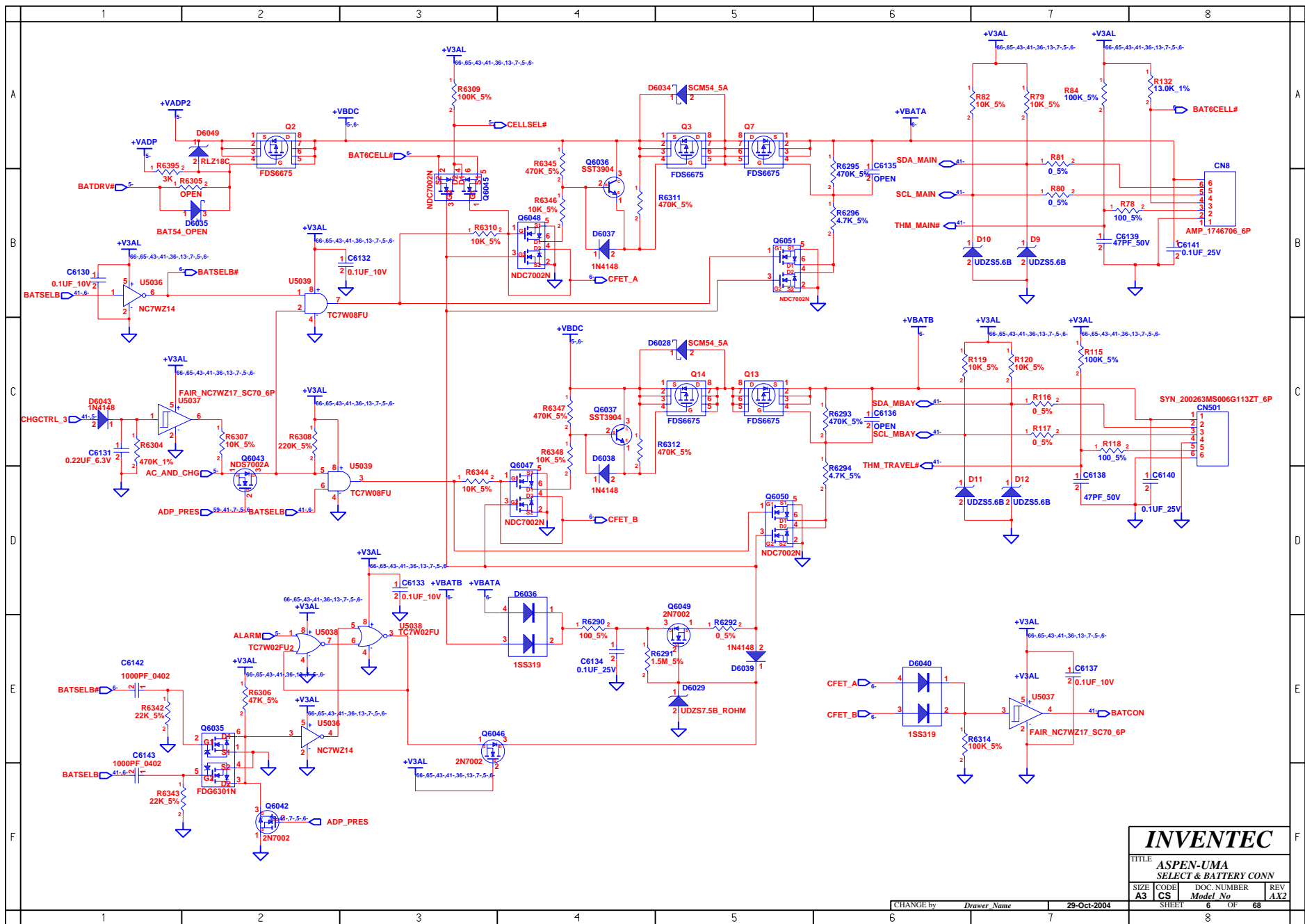
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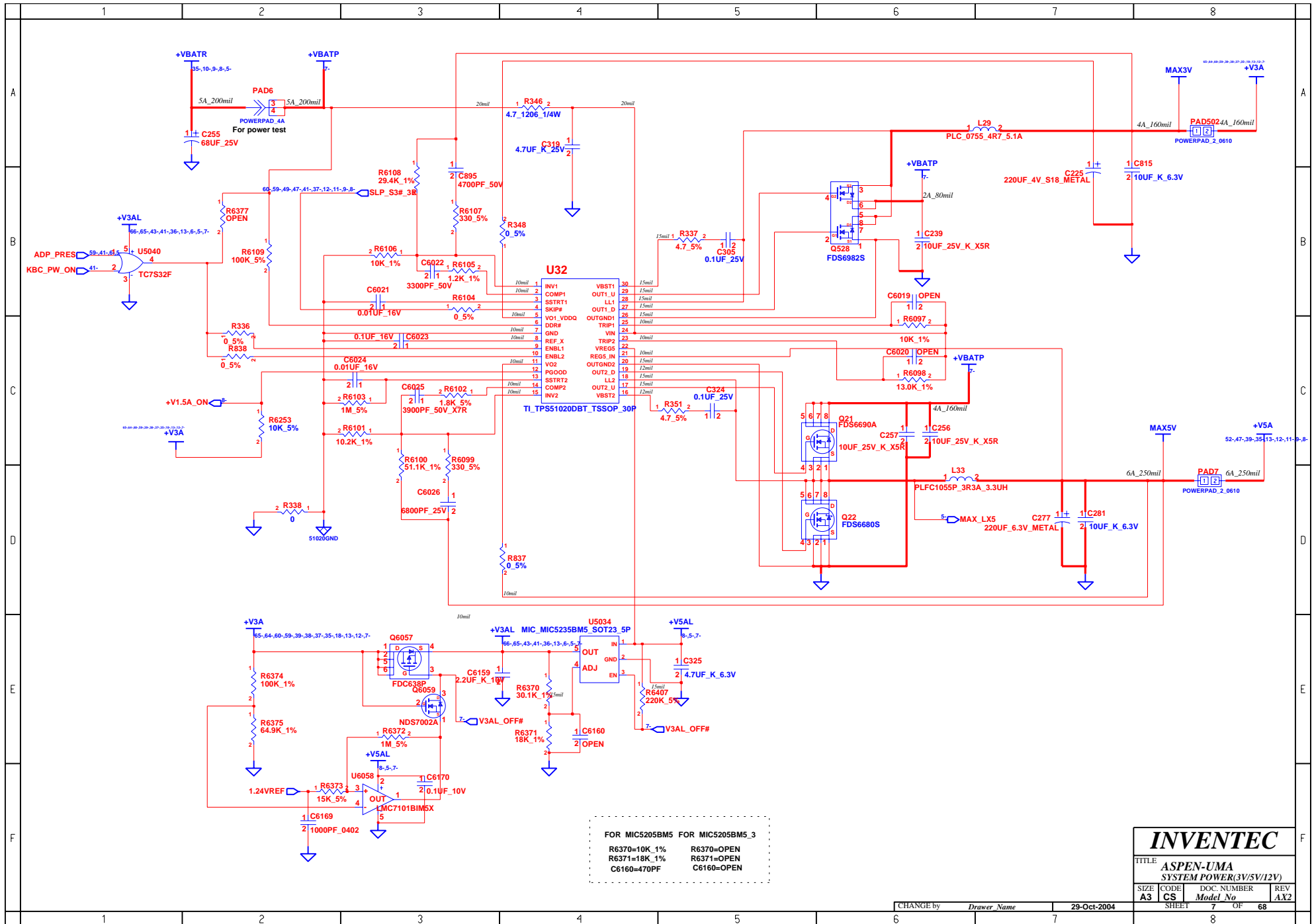
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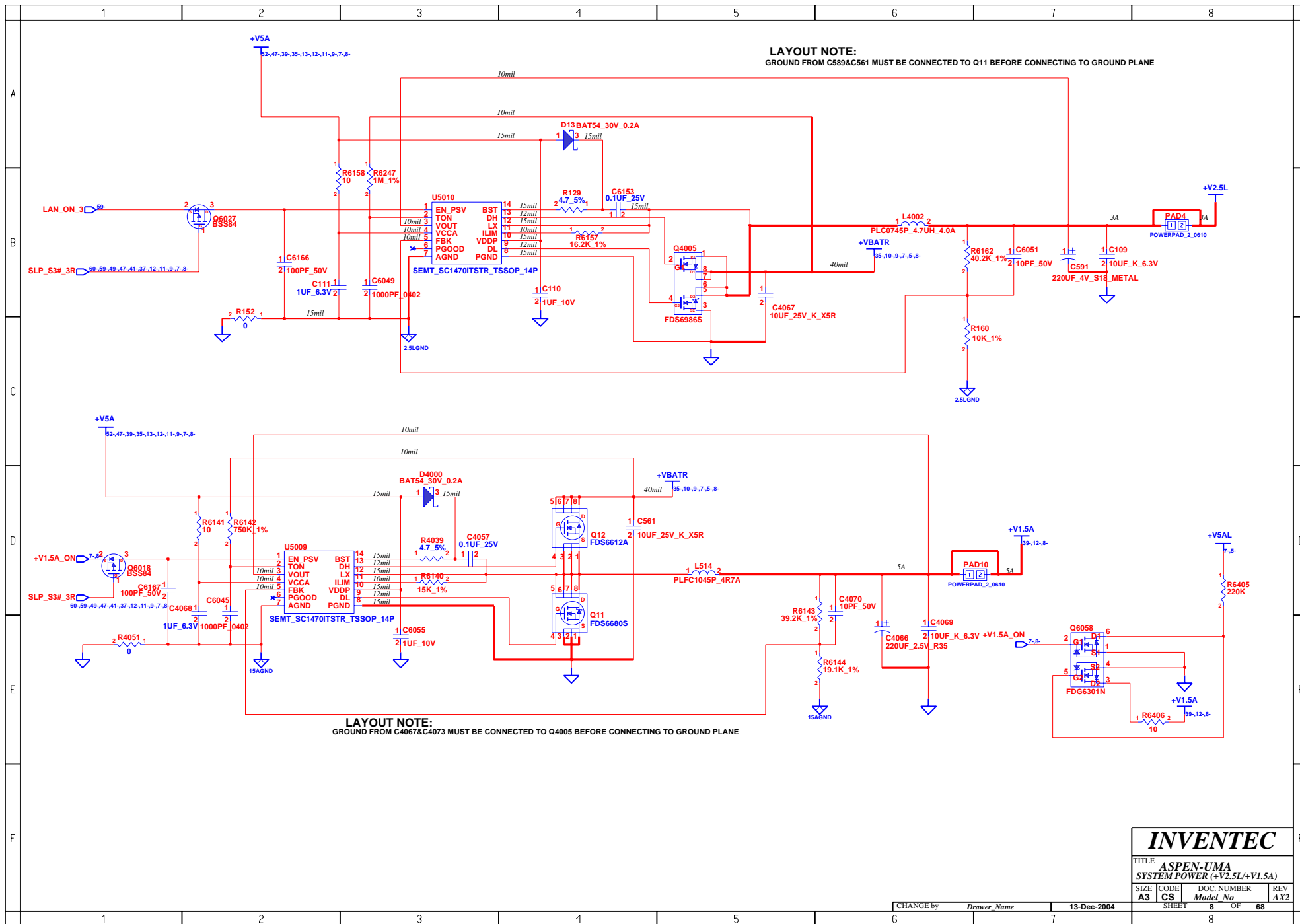
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ASPEN-UMA			
DC & BATTERY CHARGER			
SIZE	CODE	DOC NUMBER	REV
A3	CS	Model No	AX2

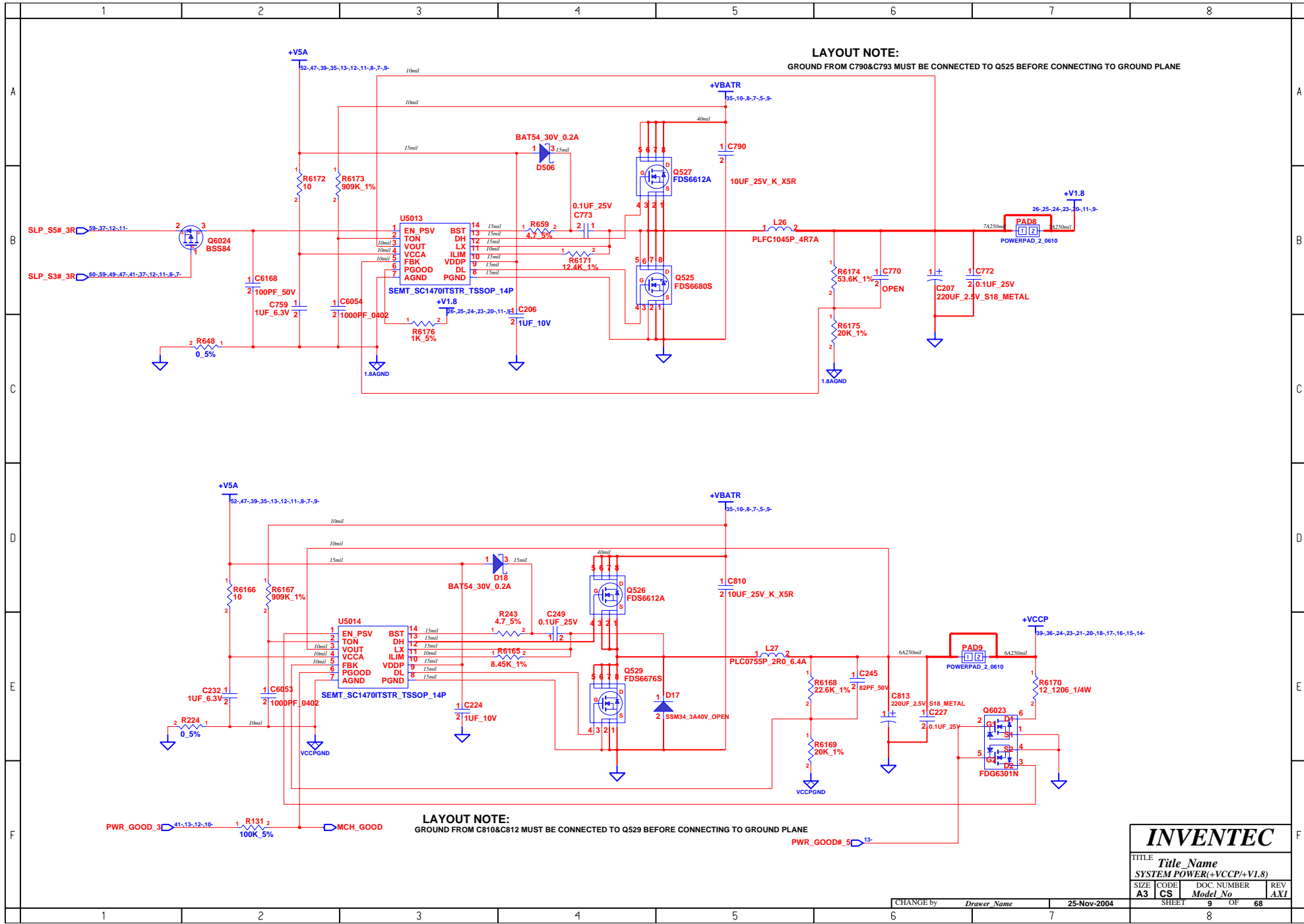
Drawer Name 29-Oct-2004



INVENTEC			
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SIZE A3	CODE CS	DOC. NUMBER Model No	REV AX2



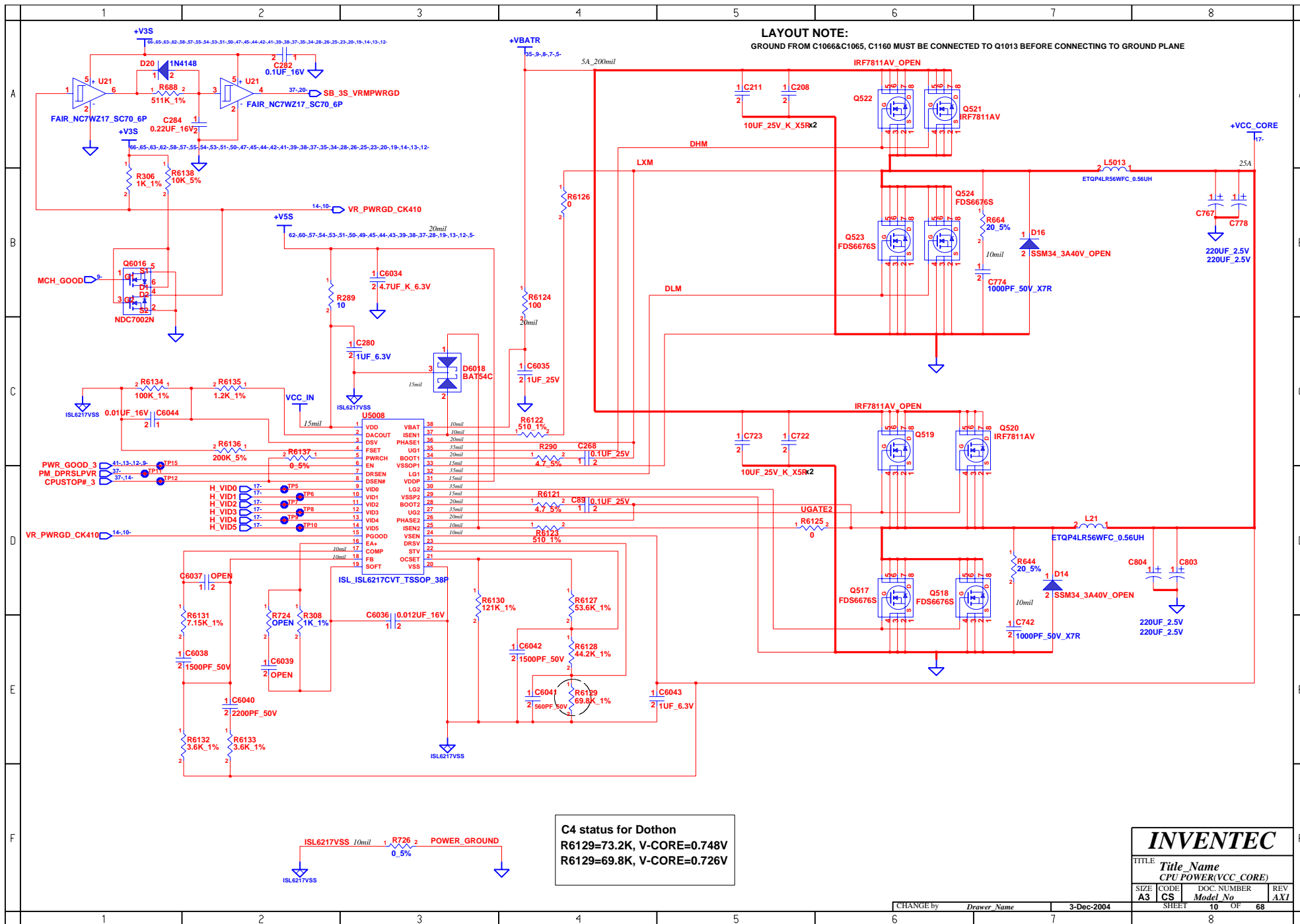


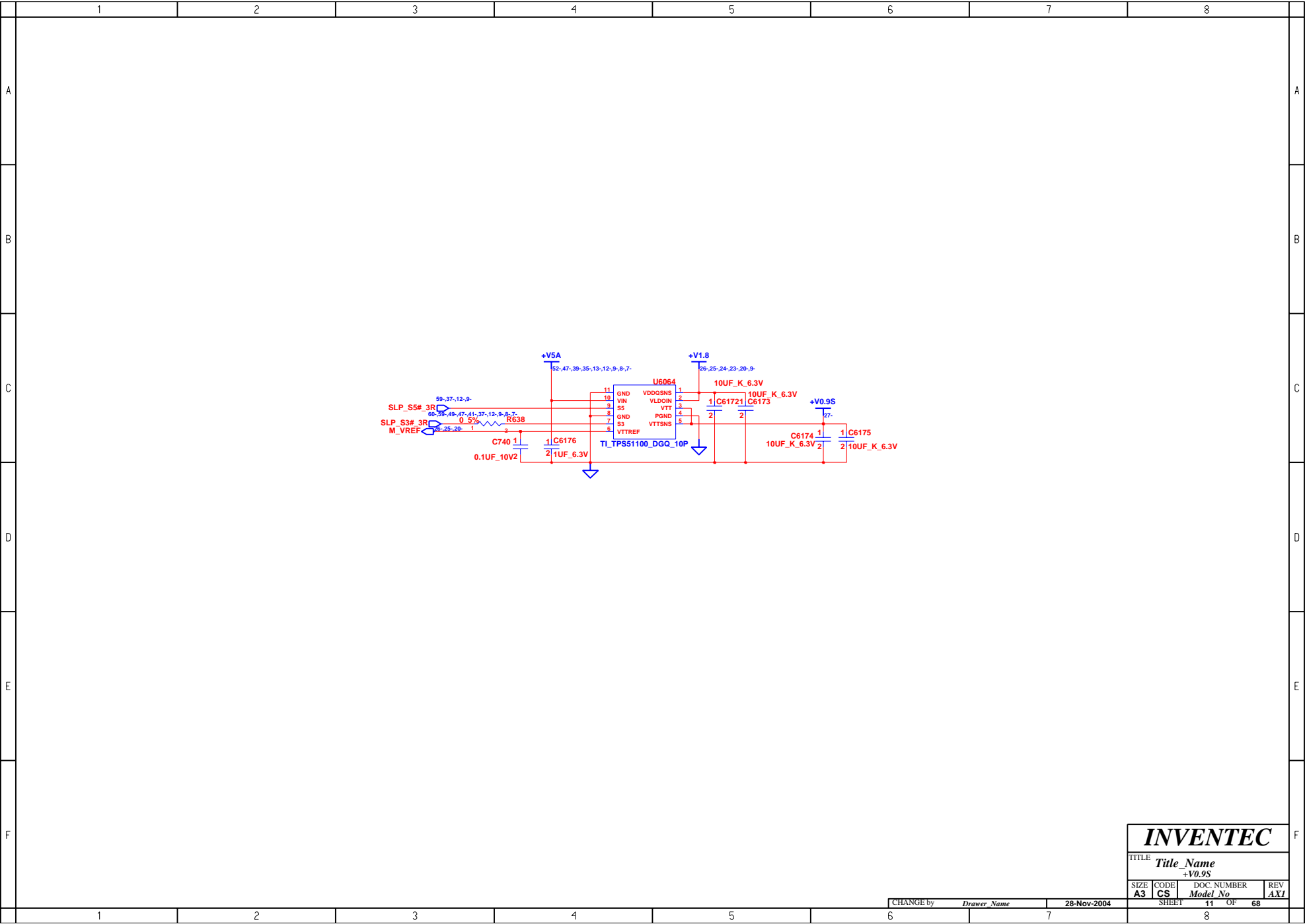


LAYOUT NOTE:
GROUND FROM C790&C793 MUST BE CONNECTED TO Q525 BEFORE CONNECTING TO GROUND PLANE

LAYOUT NOTE:
GROUND FROM C810&C812 MUST BE CONNECTED TO Q529 BEFORE CONNECTING TO GROUND PLANE

INVENTEC			
TITLE Title Name			
SYSTEM POWER(+VCCP/+V1.8)			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI
CHANGE by Drawer Name		25-Nov-2004	SHEET 9 OF 68



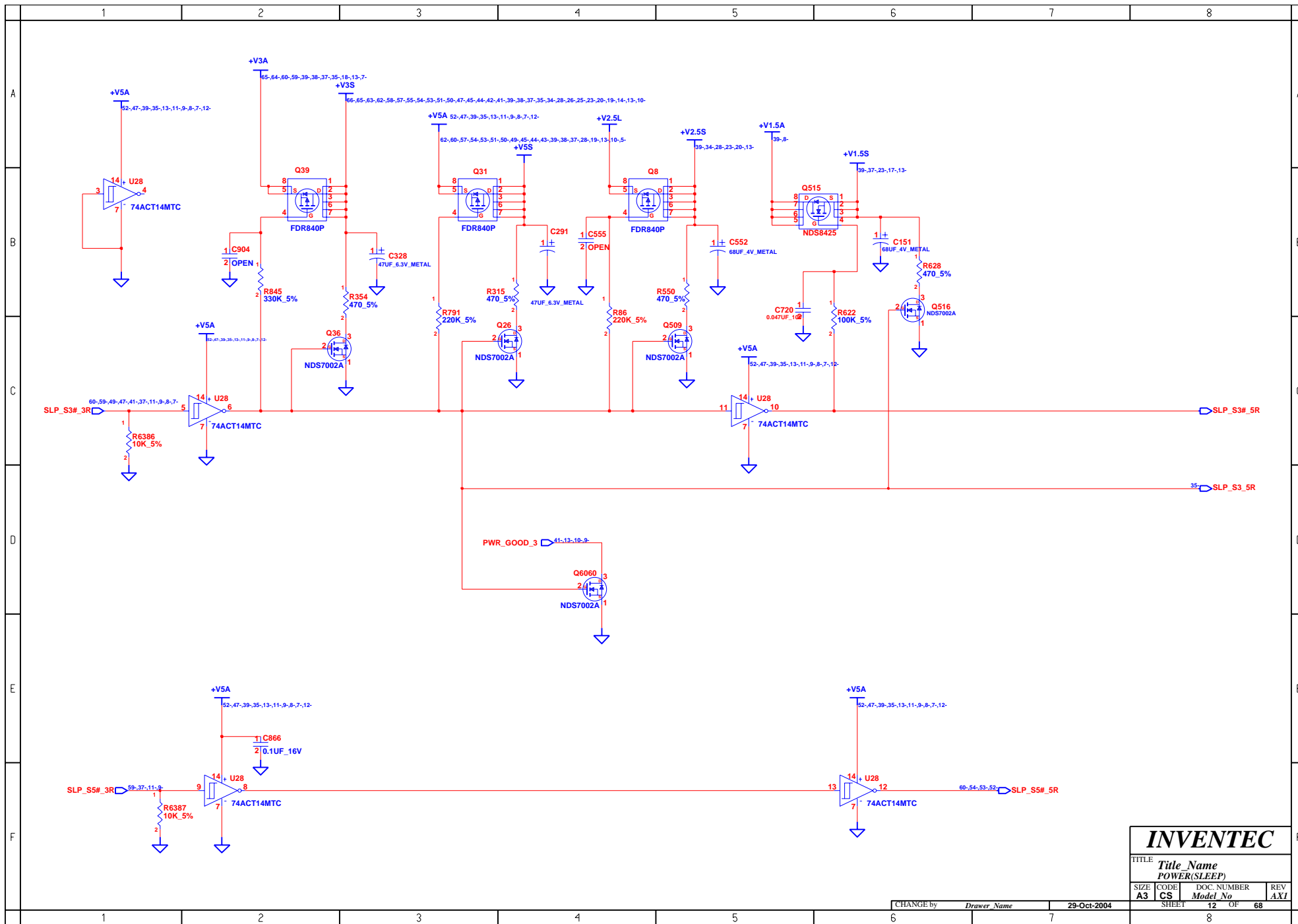


INVENTEC

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Title_Name			
+V0.9S			
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A3	CS	Model No	AXI

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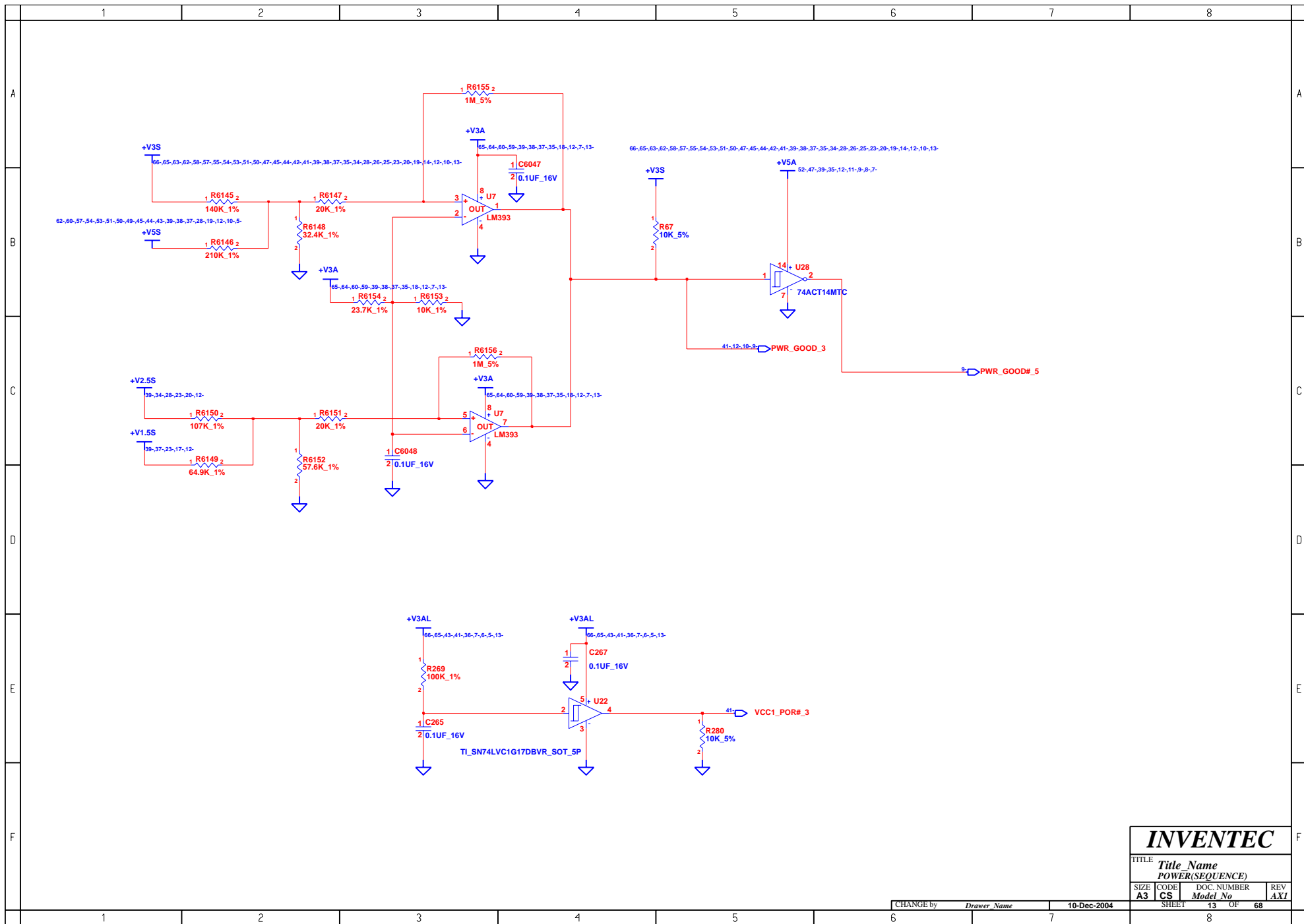
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INVENTEC

TITLE			
Title Name			
POWER(SLEEP)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI
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CHANGE by *Drawer Name* 29-Oct-2004

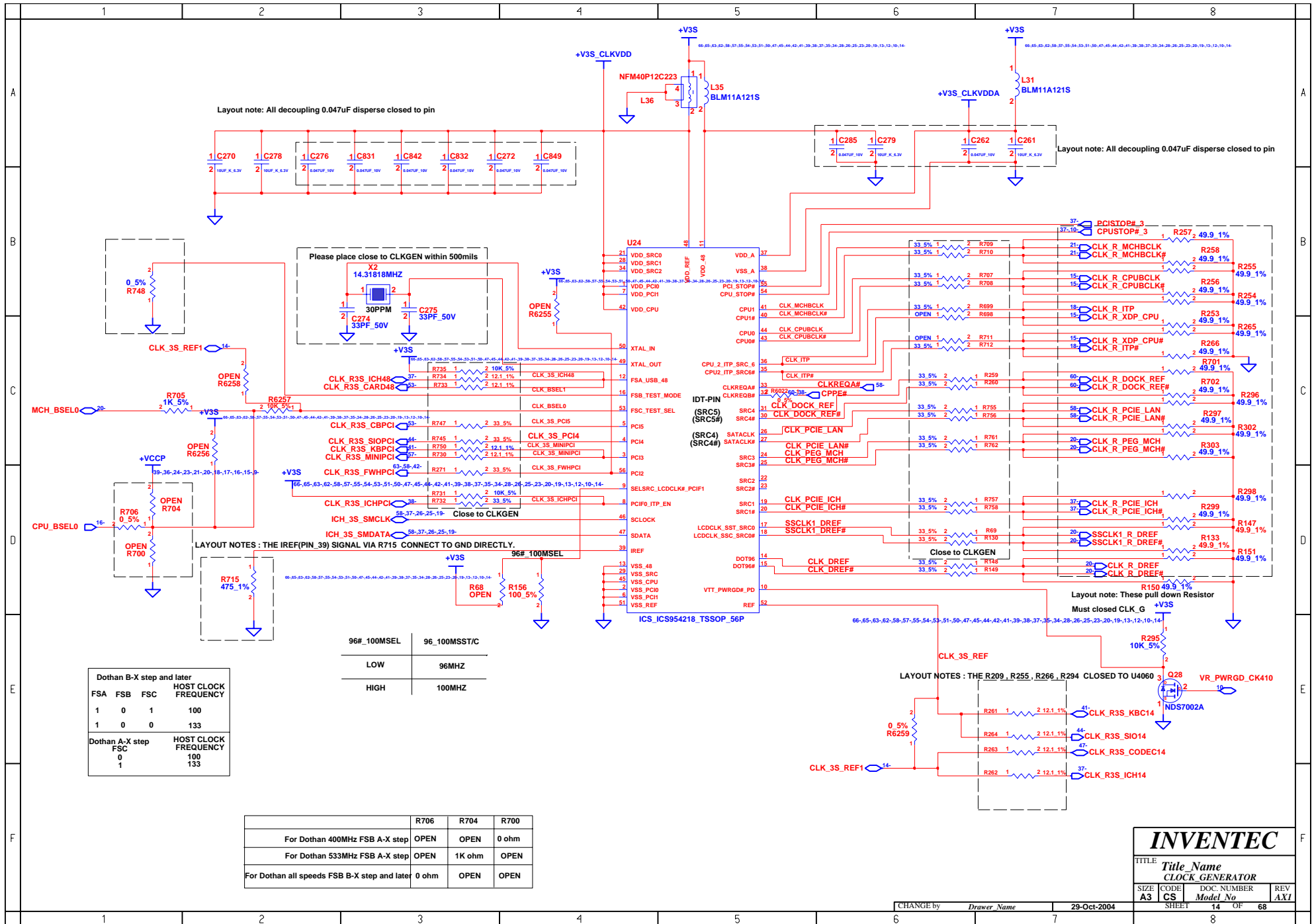


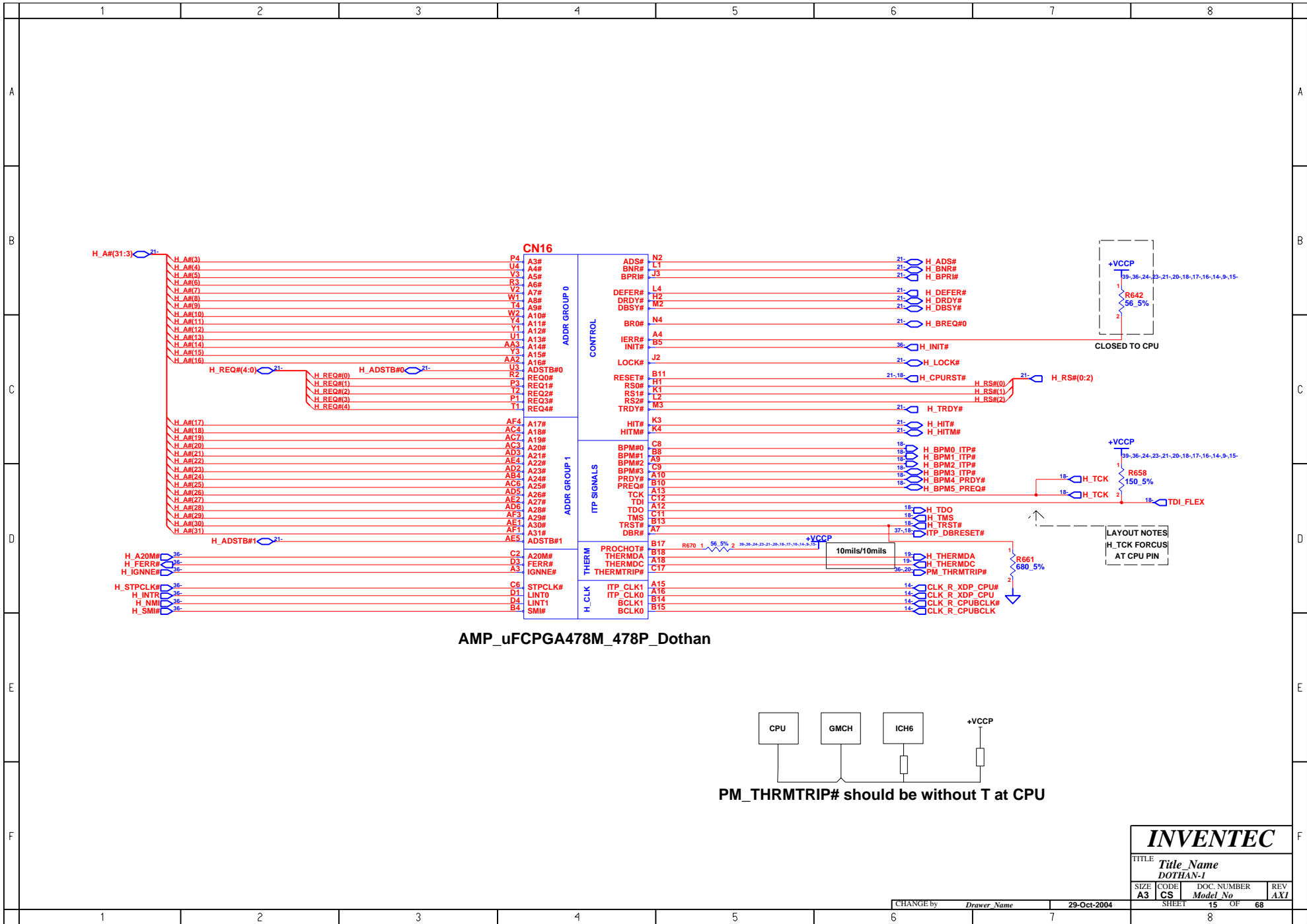
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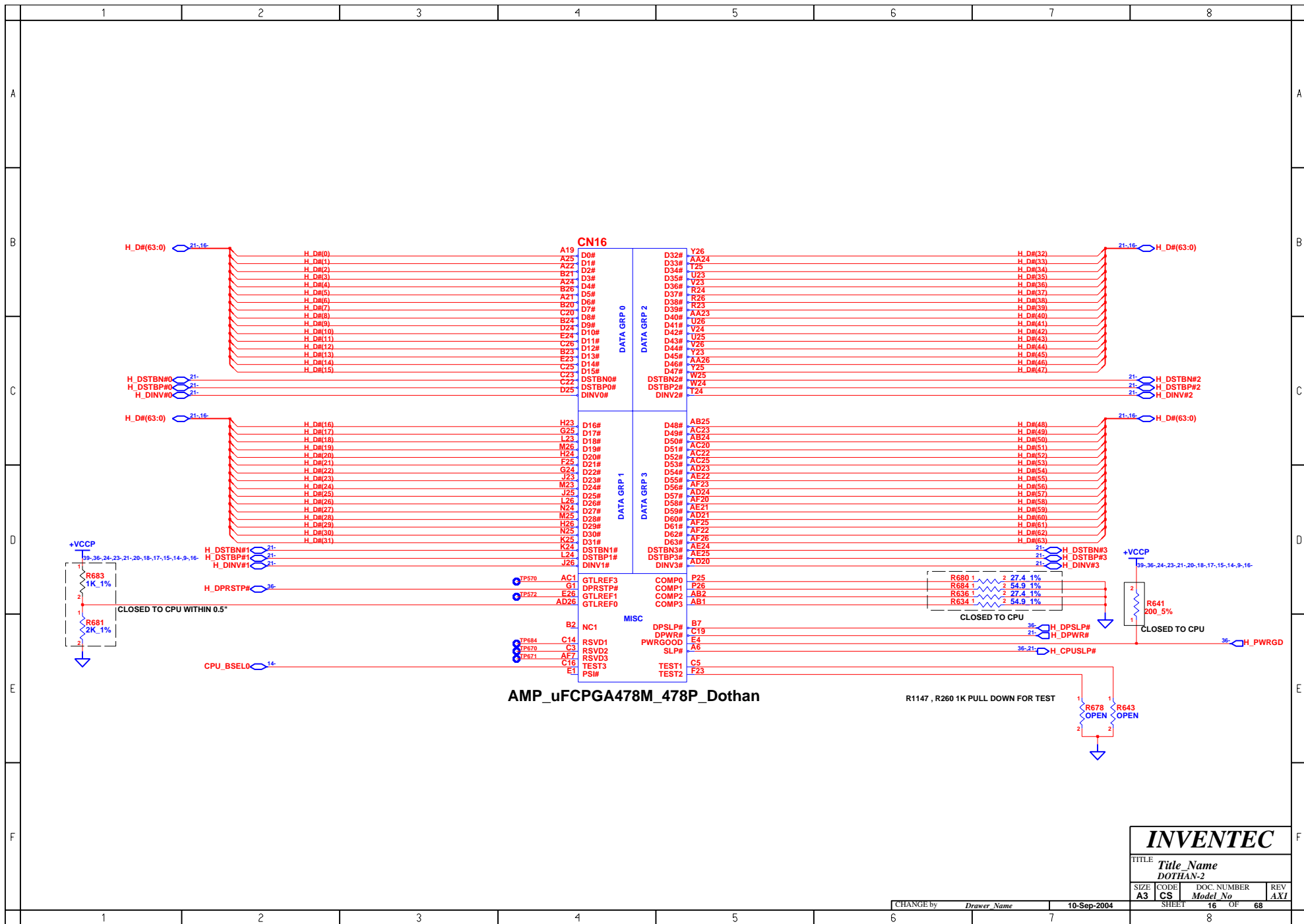
TITLE			
Title_Name			
POWER(SEQUENCE)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI

CHANGE by Drawer Name 10-Dec-2004

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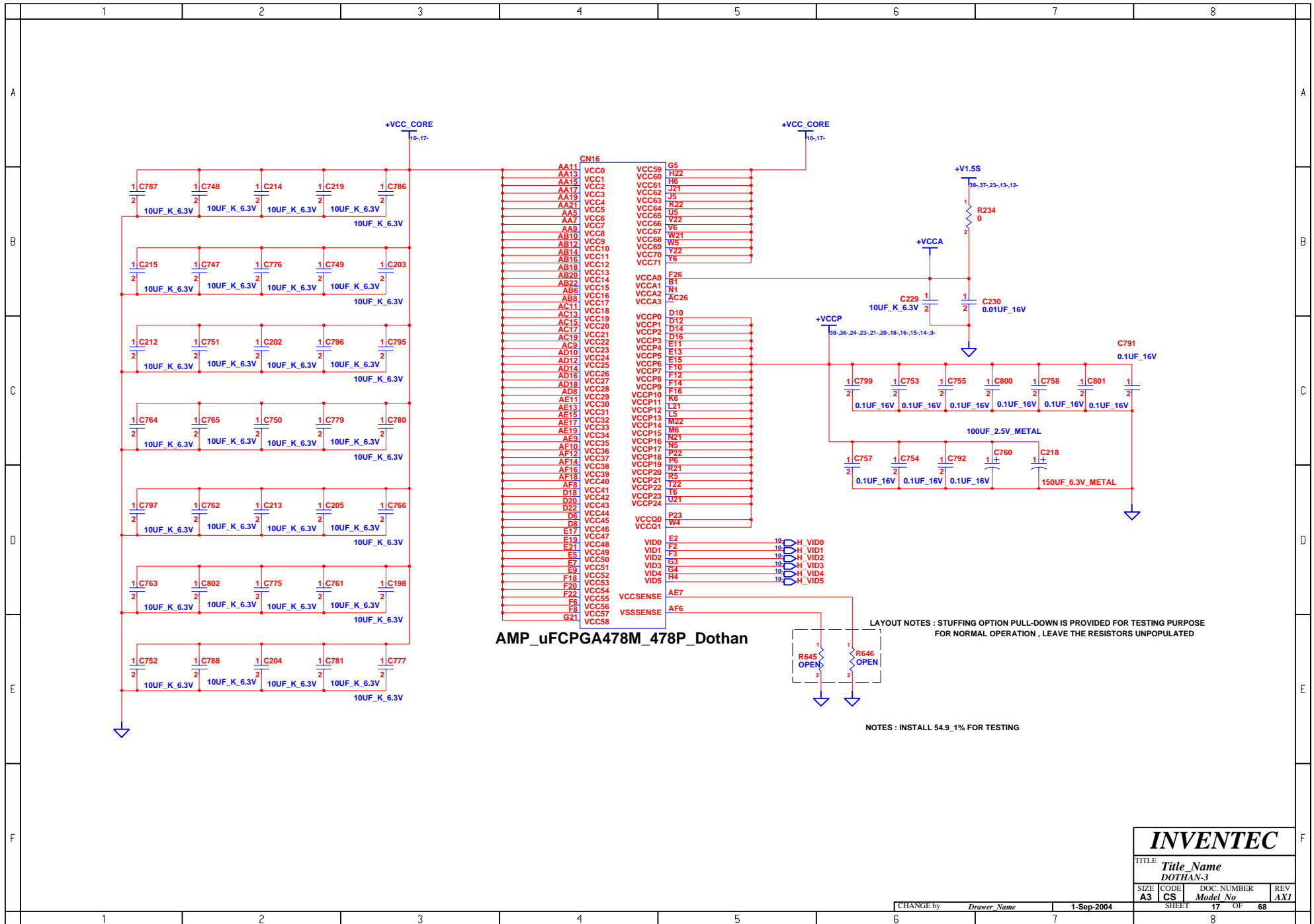






INVENTEC

TITLE			
Title Name			
DOTHAN-2			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI
CHANGE by		10-Sep-2004	
DRAWN			
SHEET		16	OF 68

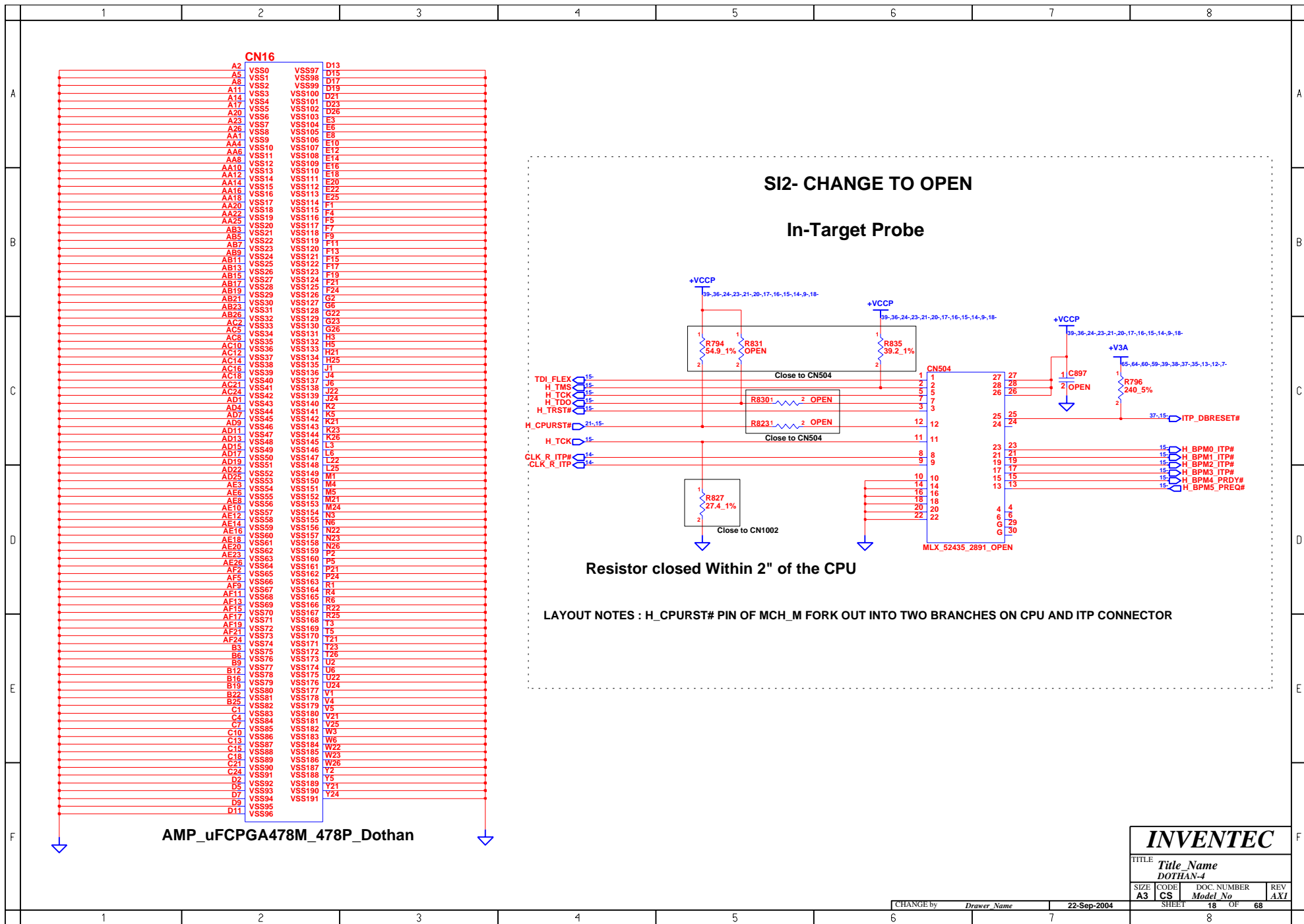


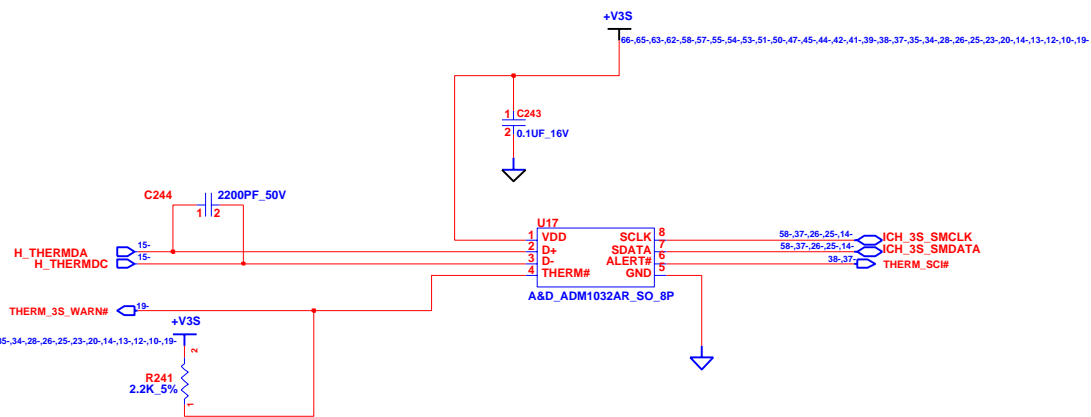
INVENTEC

TITLE Title Name DOTAN-3			
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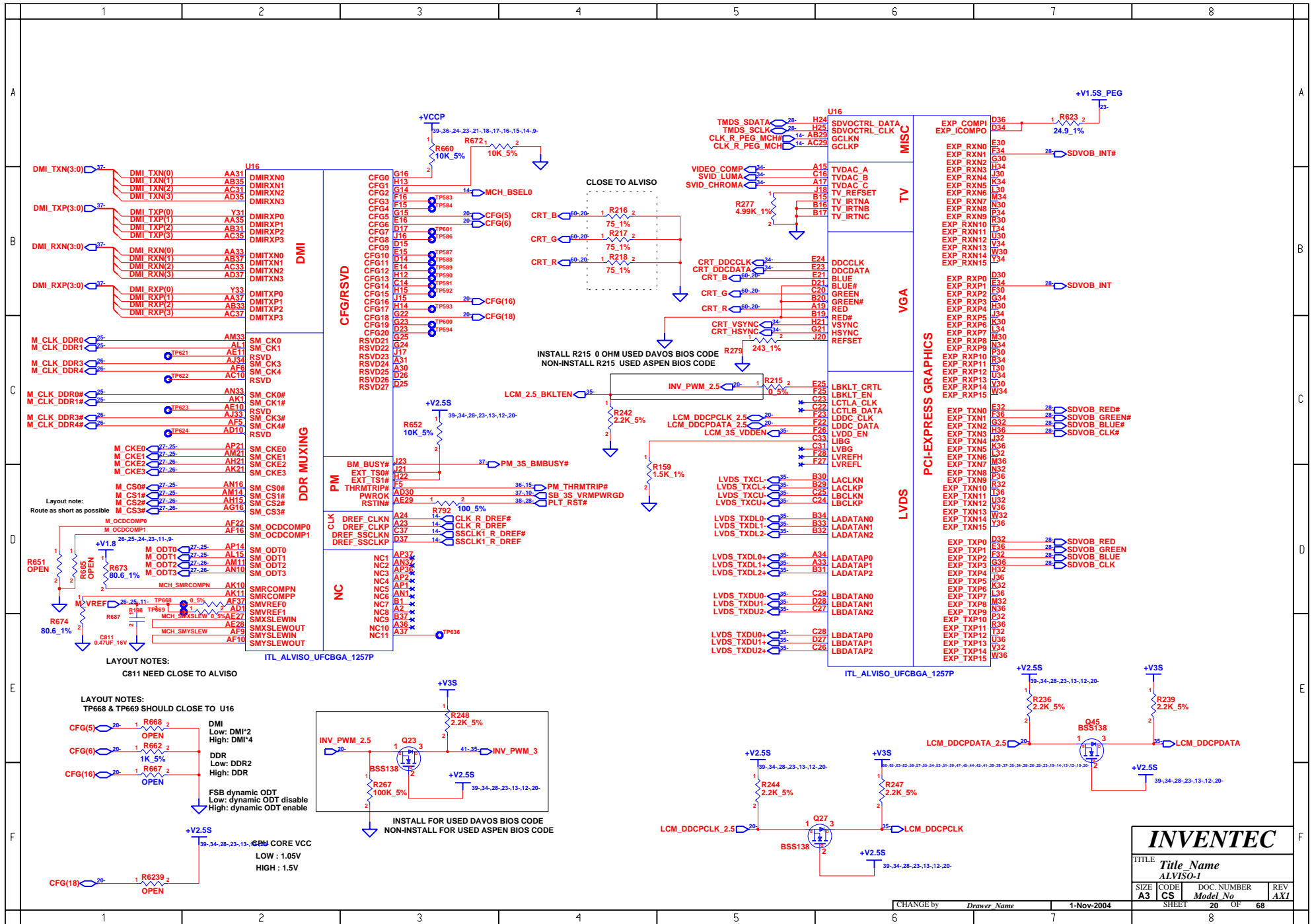
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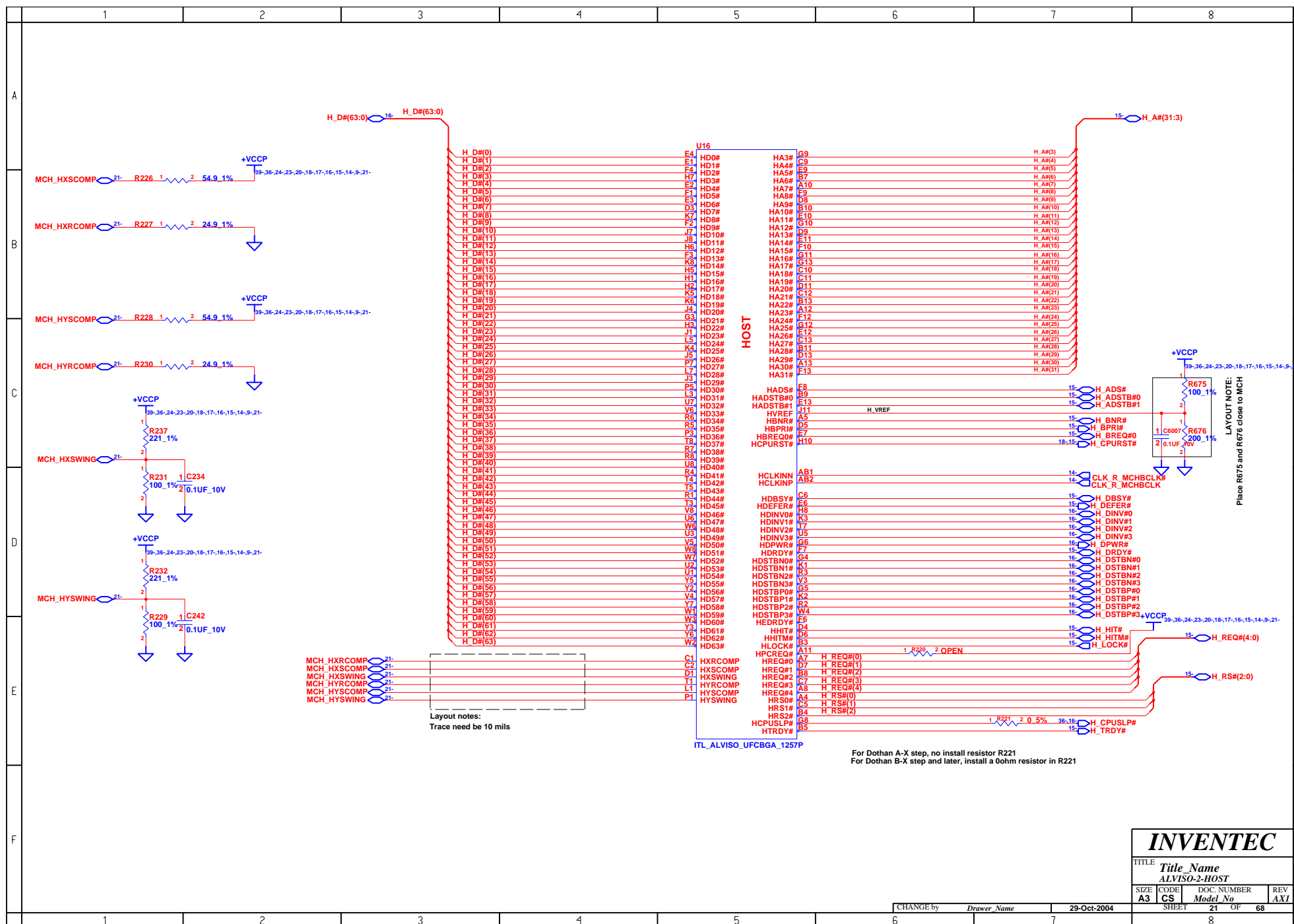
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INVENTEC			
TITLE <i>Title Name</i> THERMAL&FAN CONTROLLER			
SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV AX1
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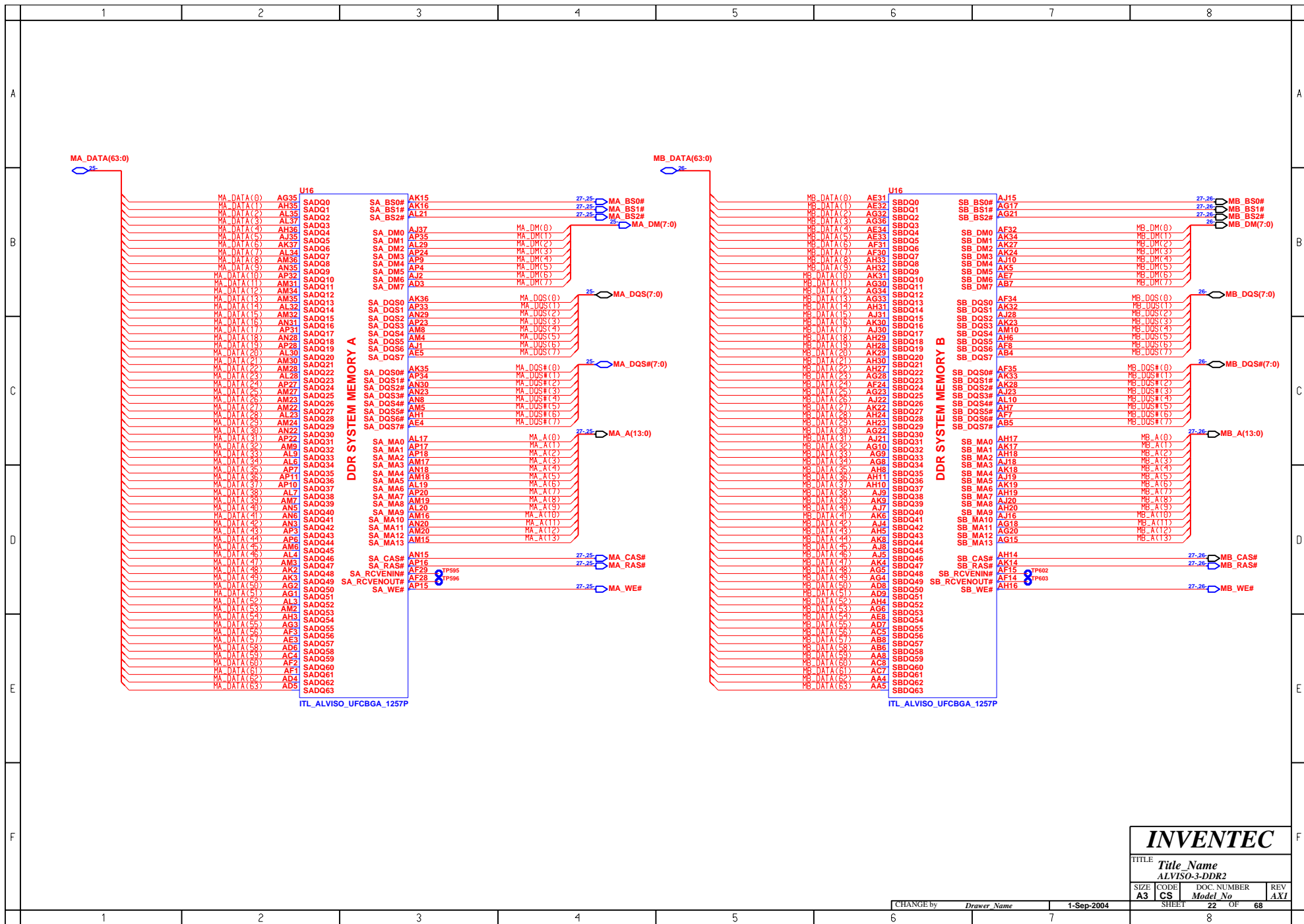


**INVENTEC**

TITLE	<i>Title_Name</i> <i>ALVISO-2-HOST</i>
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SIZE A3	CODE CS	DOC. NUMBER <i>Model_No</i>	REV. <i>AX</i>
SHEET 21 OF 68			

For Dothan A-X step, no install resistor R221
For Dothan B-X step and later, install a 0ohm resistor in R221

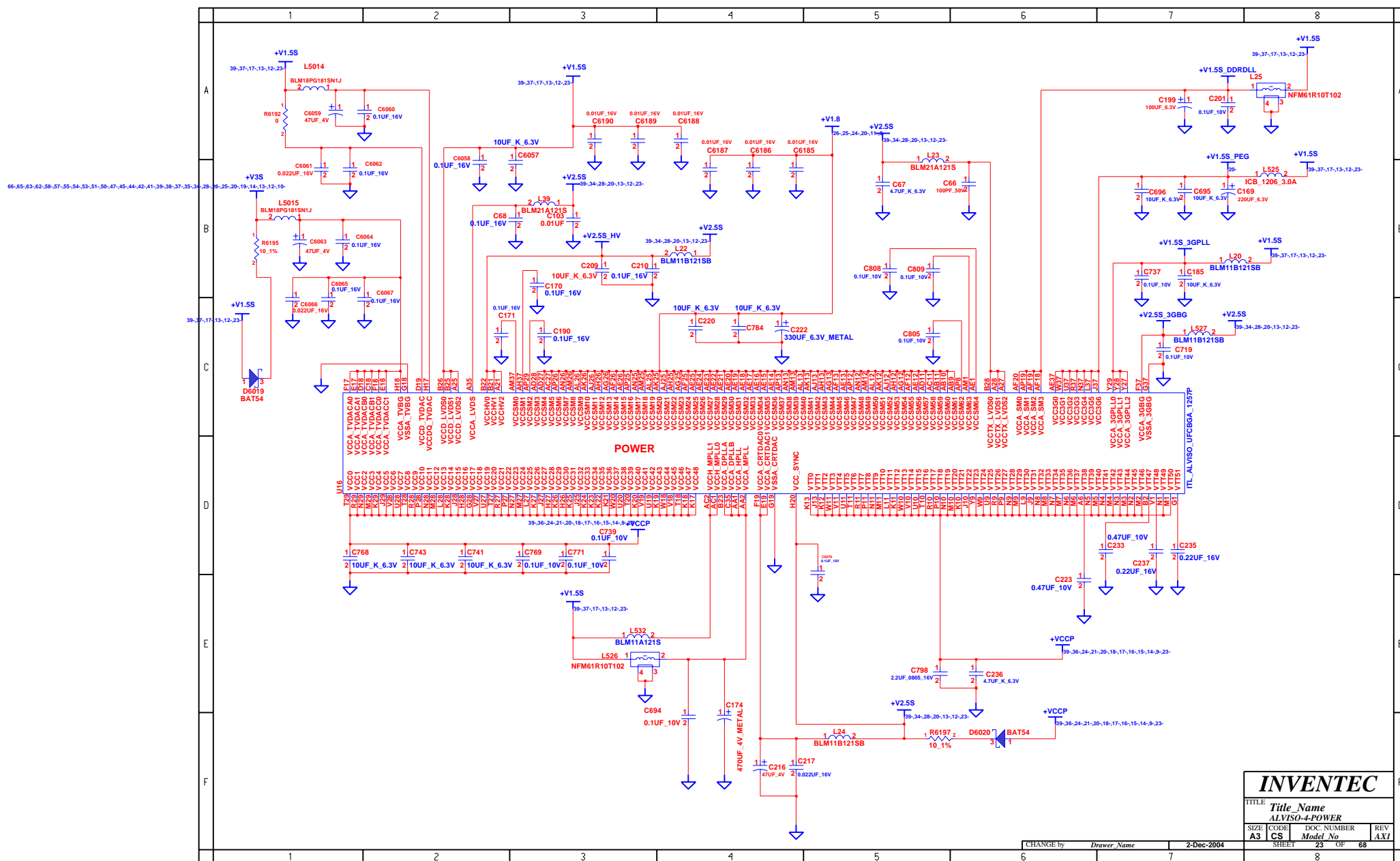


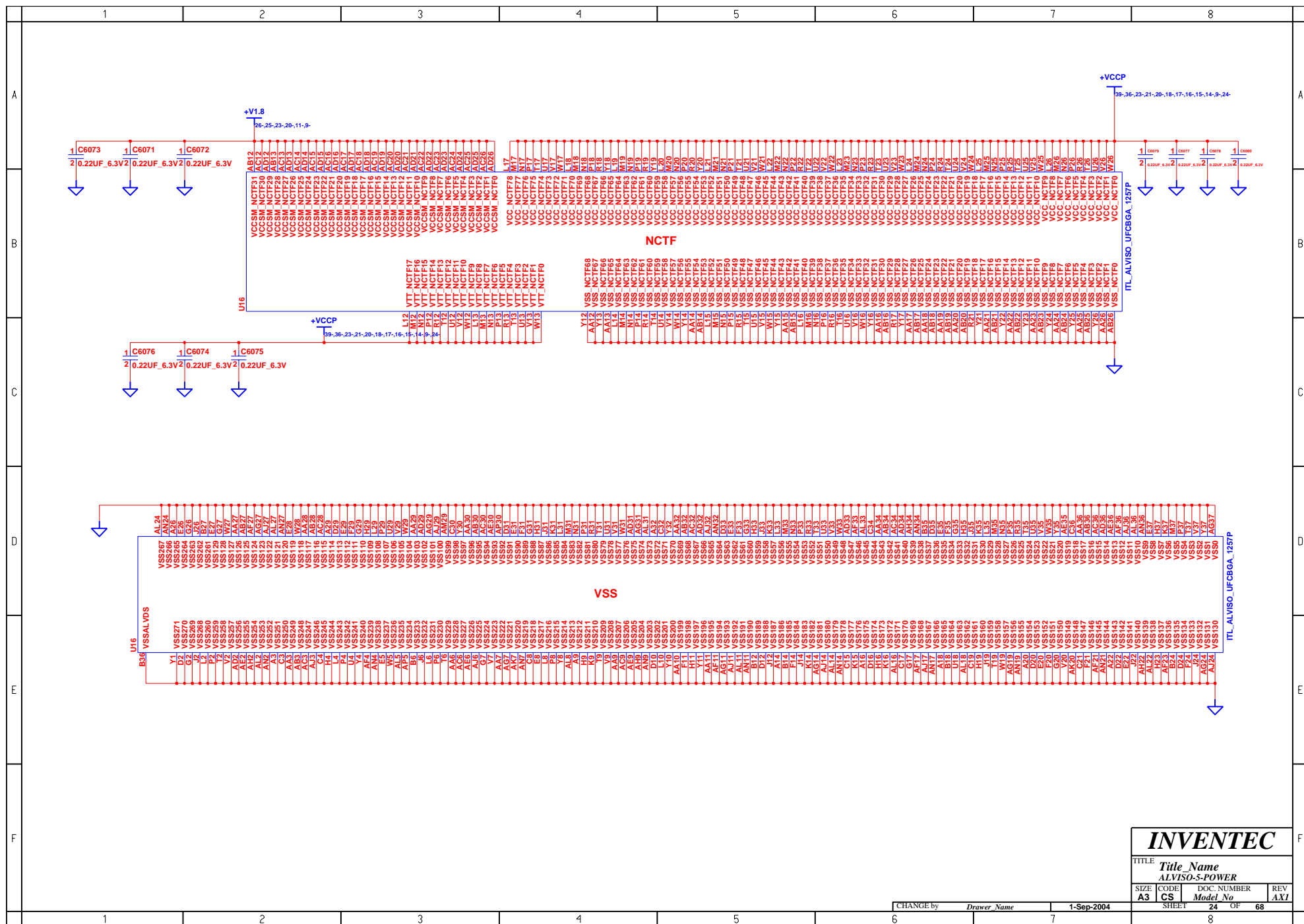
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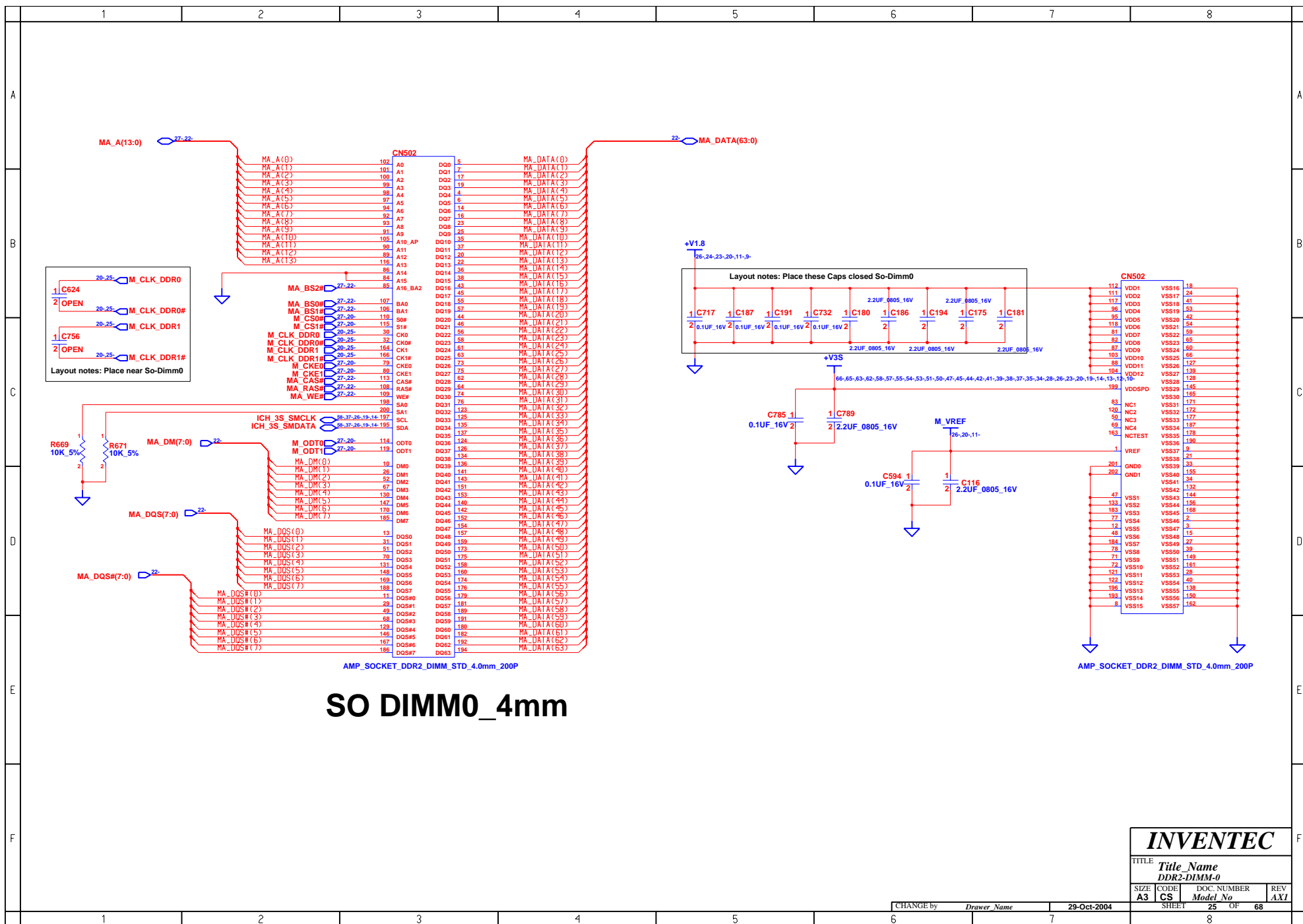
TITLE			
Title Name			
ALVISO-3-DDR2			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI

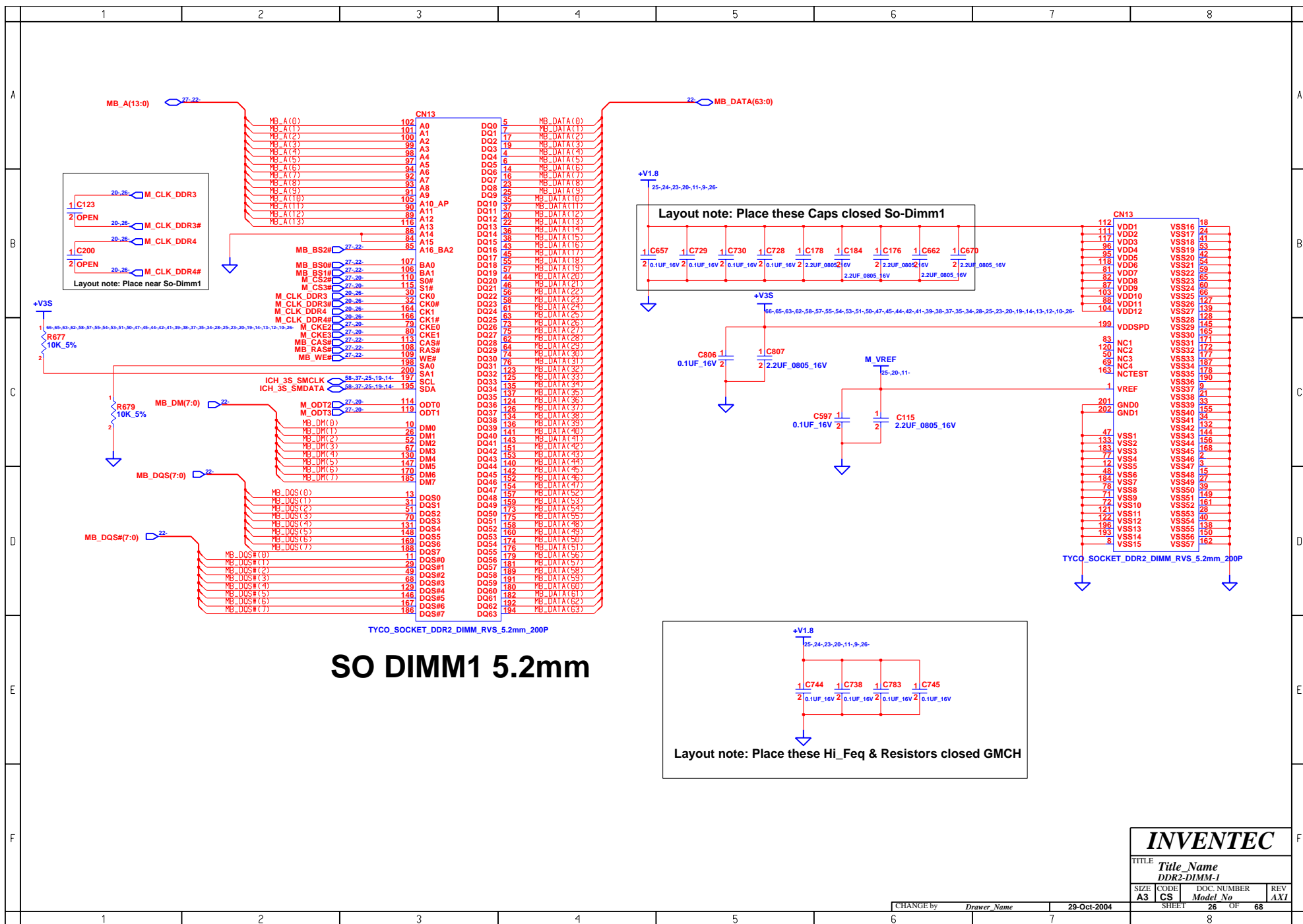
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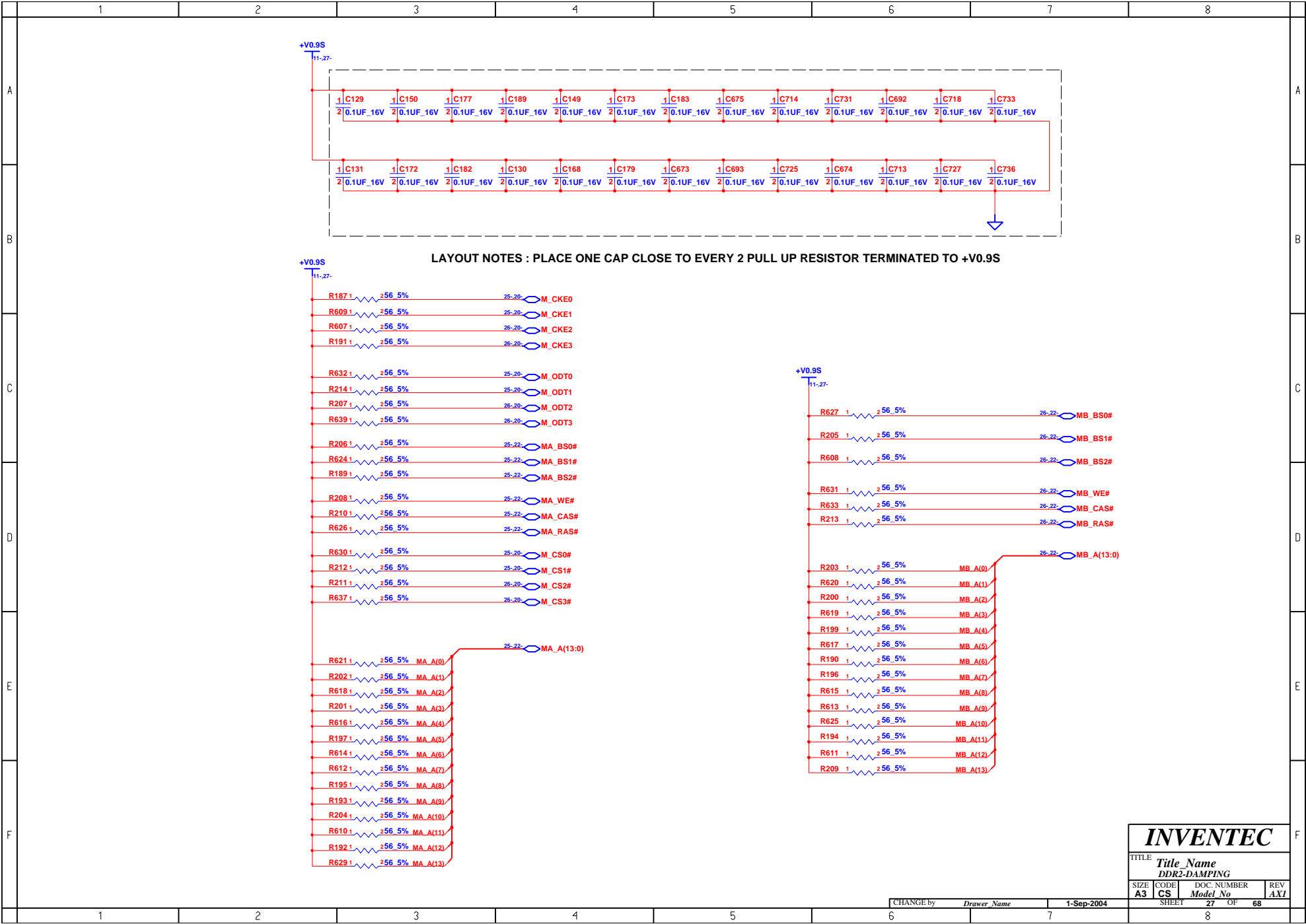
SHEET 22 OF 68











	1	2	3	4	5	6	7	8	
A	<div>BLANK</div>								A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE <i>Title_Name</i> <i>ATI-M24-P-3</i>			
SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV AXI
SHEET 29		OF 68	

CHANGE by *Drawer Name* 1-Sep-2004

	1	2	3	4	5	6	7	8	
A	<div>BLANK</div>								A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE <i>Title Name</i> <i>ATI-M24-P-4</i>			
SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV <i>AXI</i>
SHEET 30		OF 68	

CHANGE by *Drawer Name* 1-Sep-2004

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

INVENTEC			
TITLE <i>Title Name</i>			
VGA DAMPING RESISTOR			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI
SHEET		31	OF 68

CHANGE by *Drawer Name* 27-Sep-2003

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

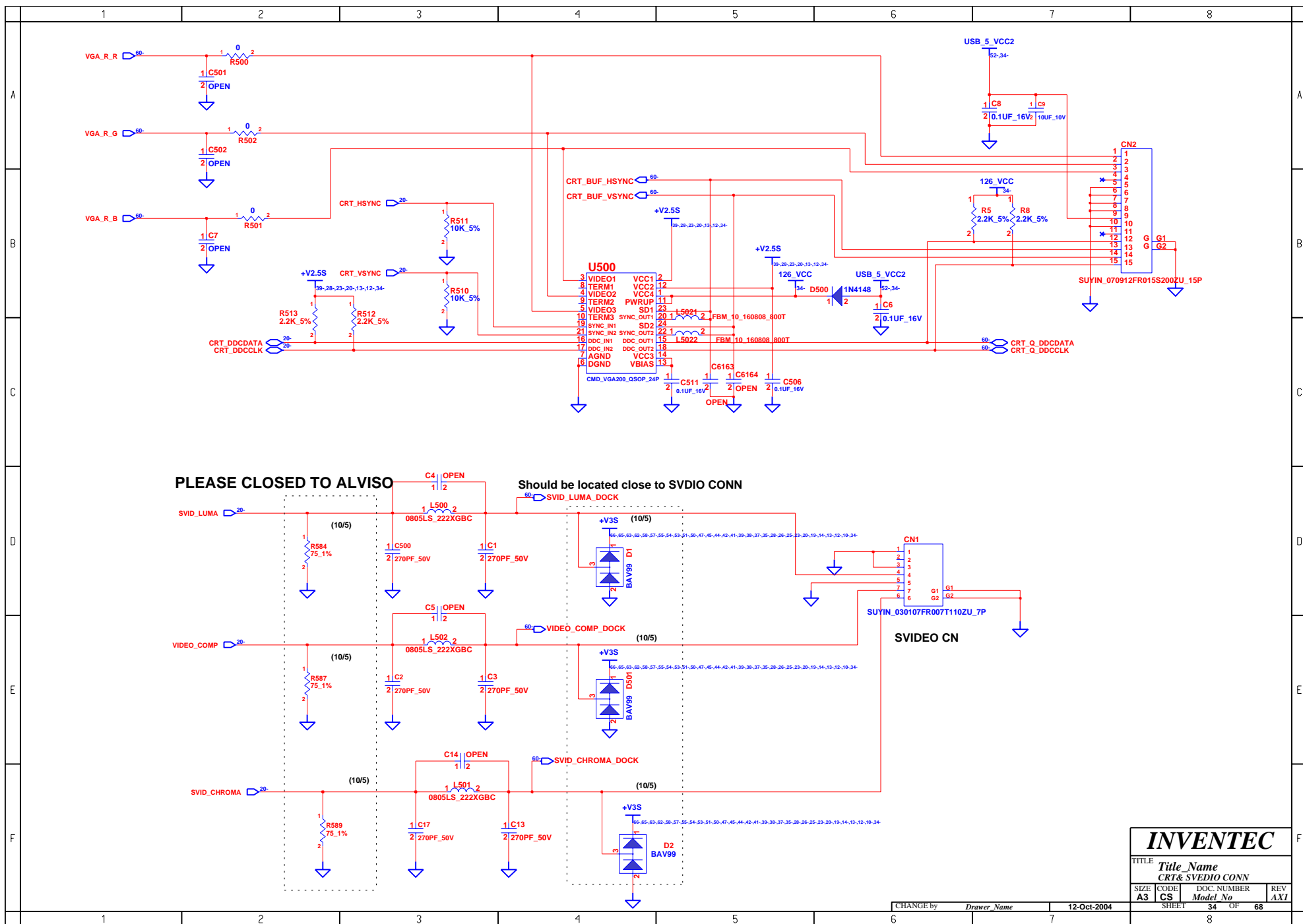
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SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI
SHEET		32	OF 68

CHANGE by Drawer Name 1-Sep-2004

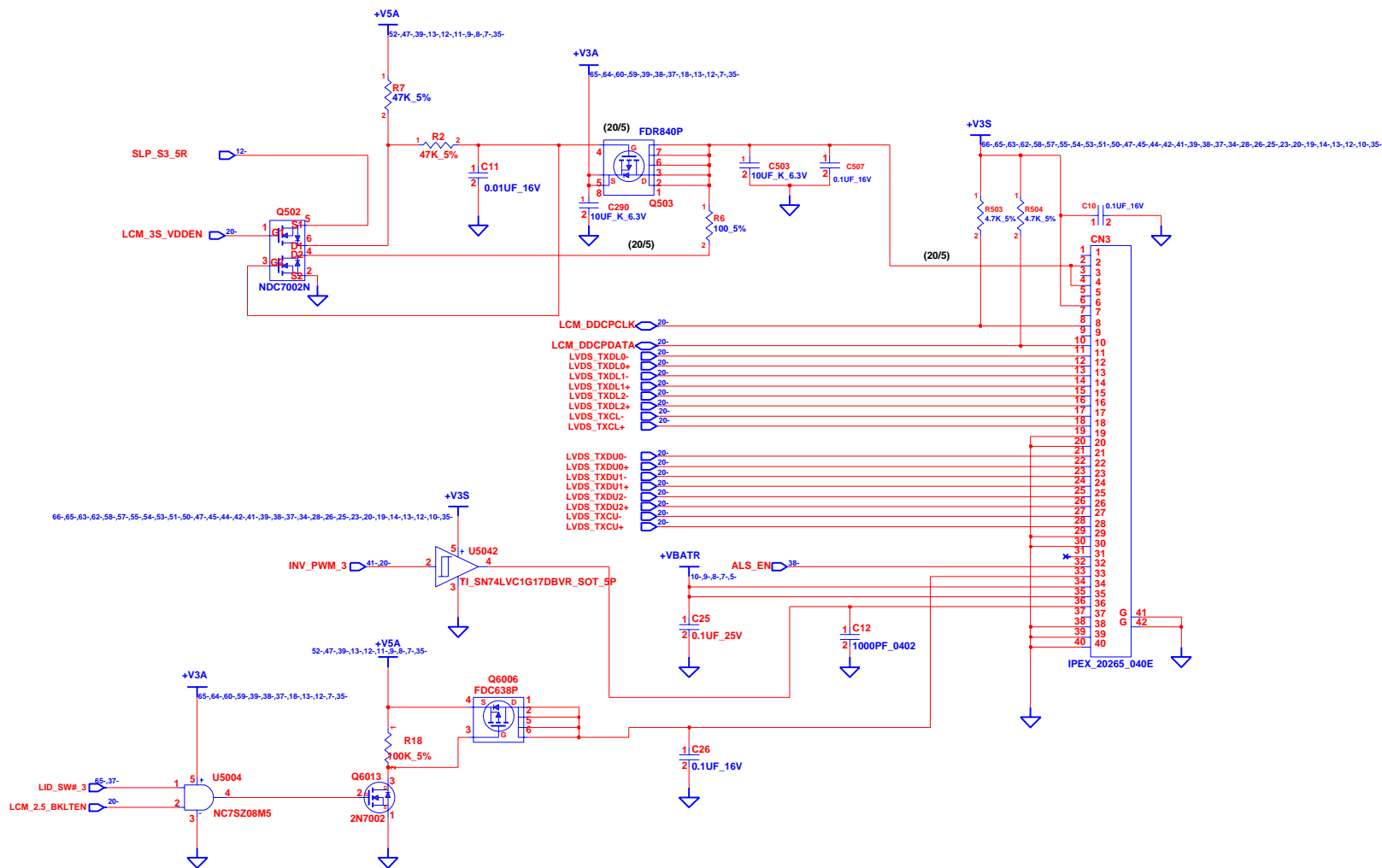
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B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE <i>Title Name</i> VIDEO RAM-2			
SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV AXI
SHEET 33		OF 68	

CHANGE by *Drawer Name* 1-Sep-2004



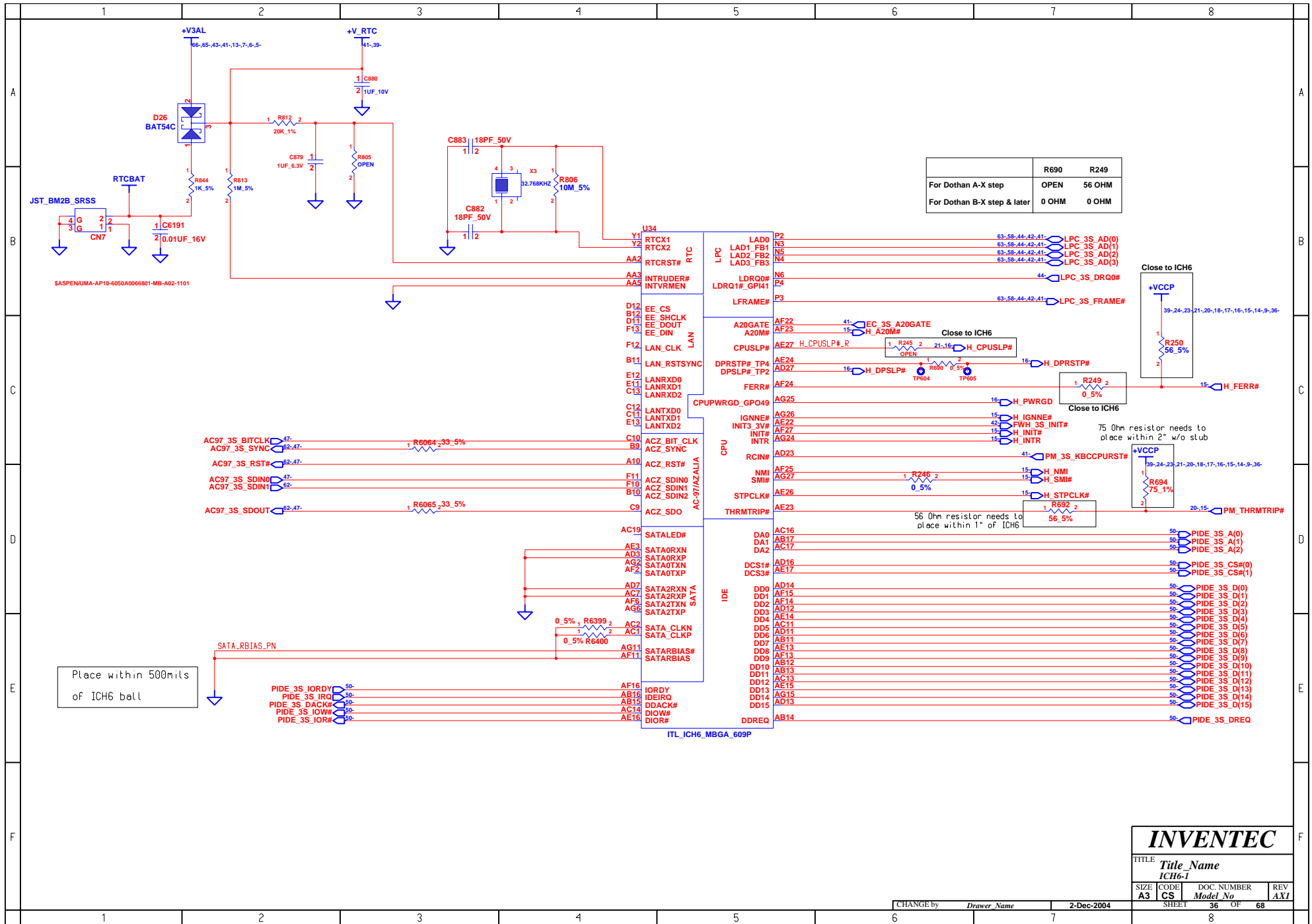
Place closed to connector



INVENTEC

TITLE			
Title Name			
LCD CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI
SHEET		35	OF 68

CHANGE by *Drawer Name* 1-Dec-2004

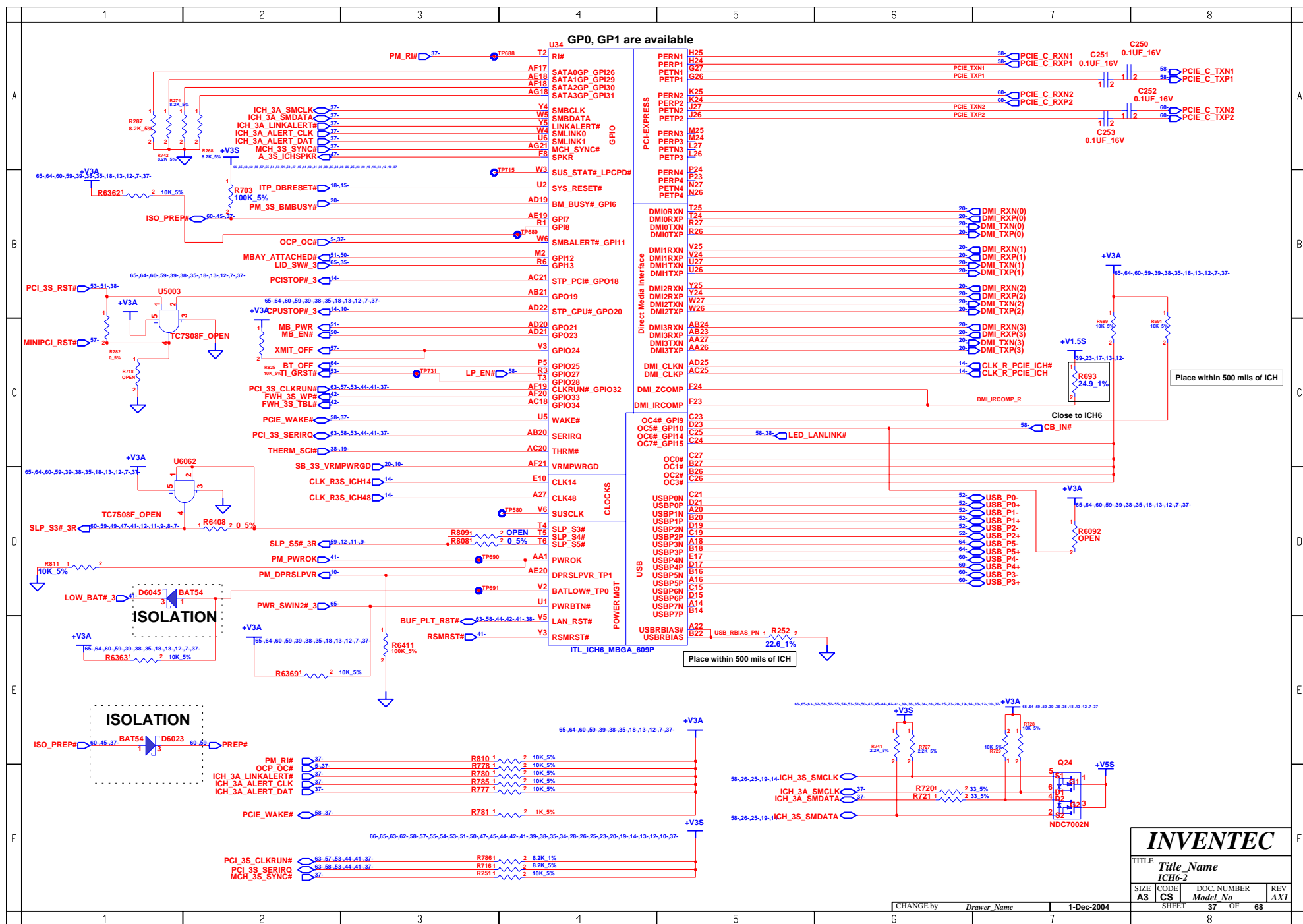


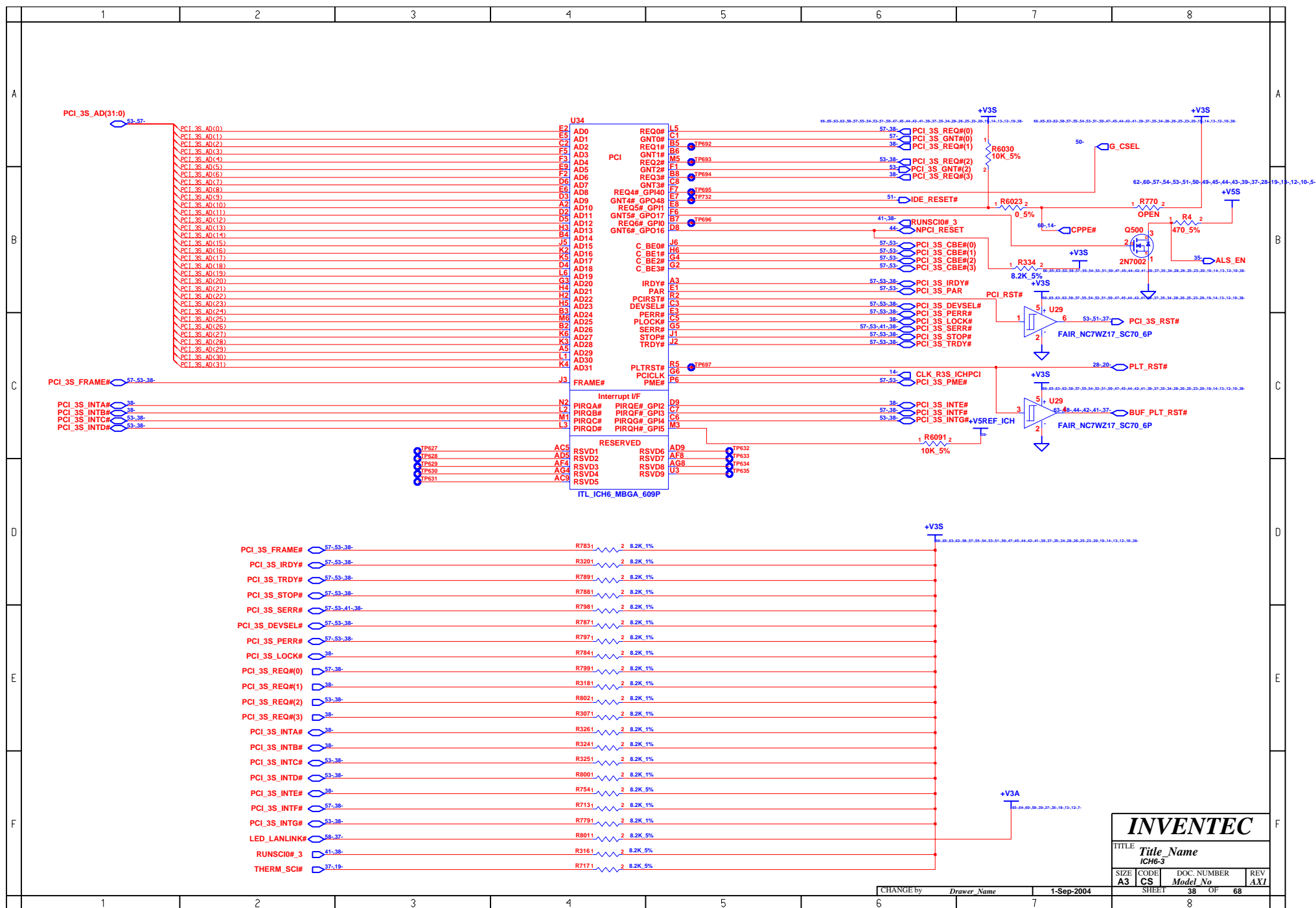
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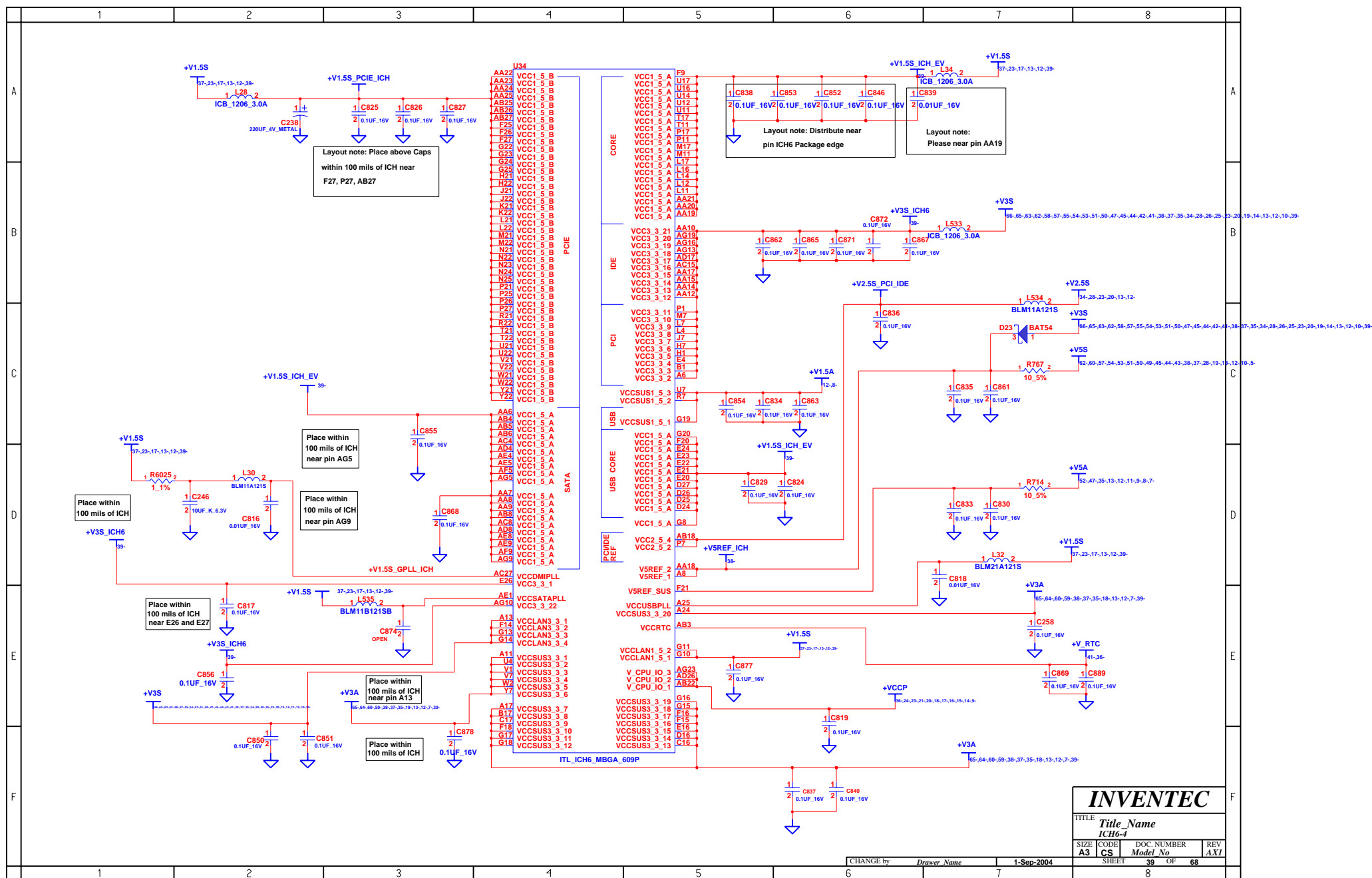
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SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI

CHANGE by: Drawer Name 2-Dec-2004

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A									A
B									B
C									C
D									D
E									E
F									F

U34

E27

V6

Y27

Y26

Y23

W7

W25

W24

W23

W1

V4

V27

V26

V23

U25

U24

U23

U15

U13

T7

T26

T23

T16

T15

T14

T13

T12

T1

R4

R25

R24

R23

R17

R16

R15

R14

R13

R12

R11

P22

P16

P15

P14

P13

P12

N7

N17

N16

N15

N14

N13

N12

N11

N1

M4

M27

M26

M23

M18

M15

M14

M13

M12

L25

L24

L23

L15

L13

K7

K27

K26

K23

K1

J5

J24

J23

H27

H26

H23

G9

G7

G21

G12

G1

VSS172

VSS171

VSS170

VSS169

VSS168

VSS167

VSS166

VSS165

VSS164

VSS163

VSS162

VSS161

VSS160

VSS159

VSS158

VSS157

VSS156

VSS155

VSS154

VSS153

VSS152

VSS151

VSS150

VSS149

VSS148

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VSS90

VSS89

VSS88

VSS87

F4

F22

F19

F17

E25

E19

E18

E15

E14

D22

D20

D18

D14

D13

D10

C1

C22

C20

C18

C14

B25

B24

B23

B21

B19

B15

B13

AG7

AG3

AG22

AG20

AG17

AG14

AG12

AG1

AF7

AF3

AF26

AF12

AF10

AF1

AE6

AE25

AE21

AE2

AE12

AE11

AE10

AD6

AD24

AD2

AD18

AD15

AD10

AD1

AC3

AC6

AC26

AC24

AC23

AC22

AC12

AC10

AB9

AB2

AB19

AB10

AB1

AA4

AA16

AA13

AA11

A9

A7

A4

A26

A23

A21

A19

A15

A12

A1

ITL_ICH6_MBG_609P

INVENTEC

TITLE

Title_Name

ICH6-5

SIZE

A3

CODE

CS

DOC. NUMBER

Model No

REV

AXI

SHEET

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OF

68

CHANGE by

Drawer Name

1-Sep-2004

1

2

3

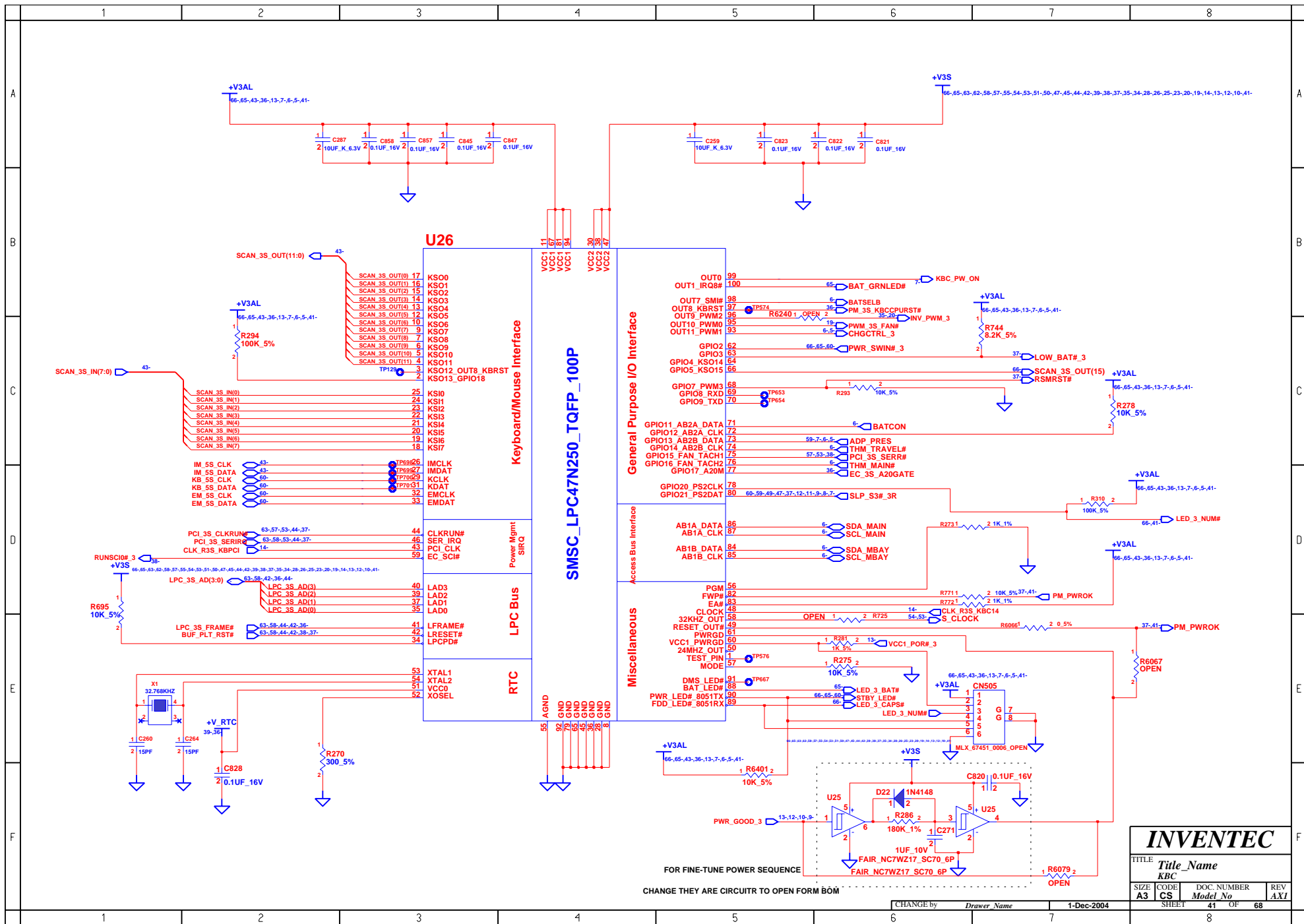
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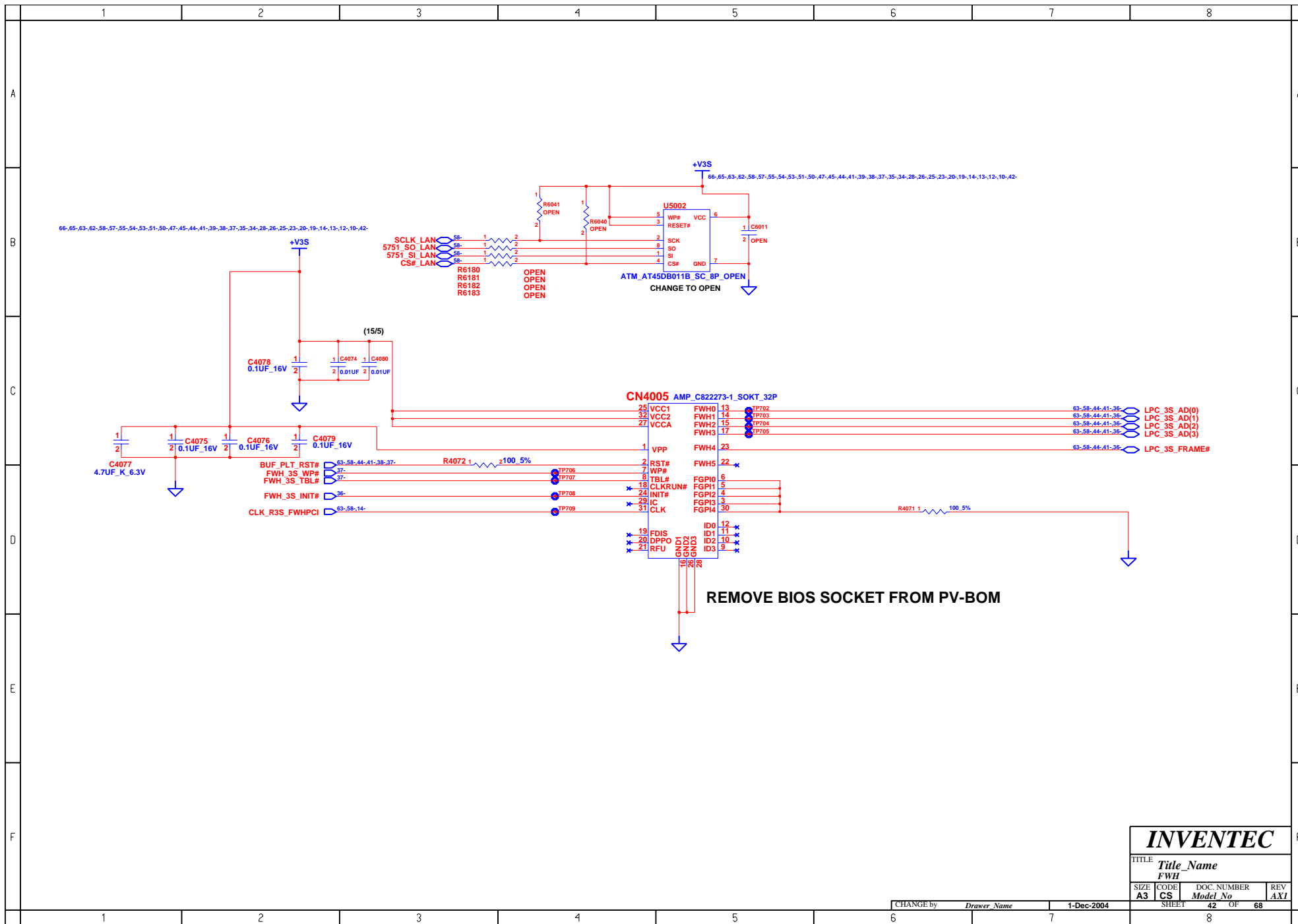
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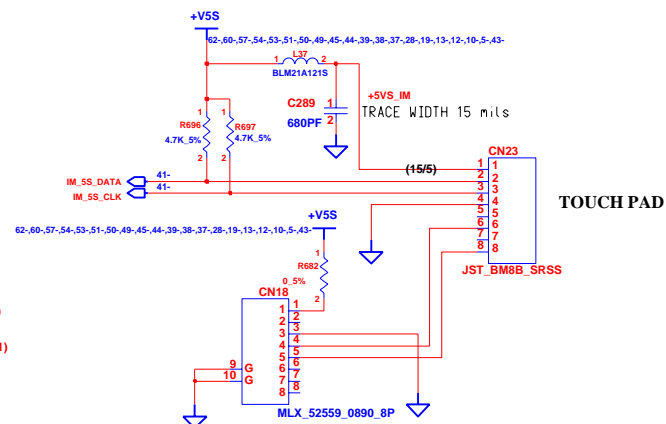
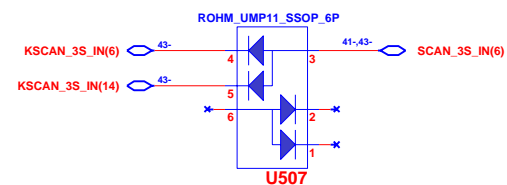
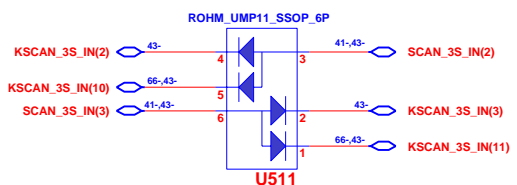
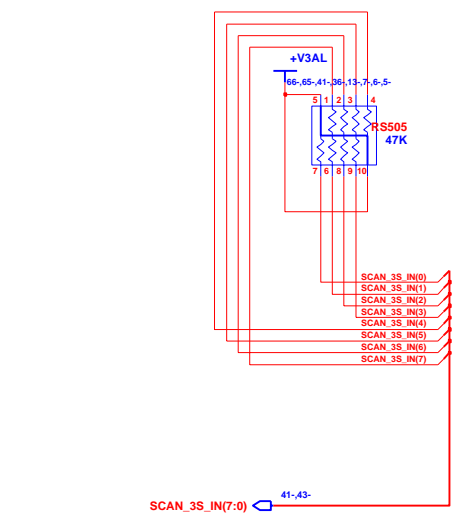


INVENTEC			
TITLE Title Name			
KBC			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI
CHANGE by		Drawer Name	1-Dec-2004
SHEET		41	OF 68

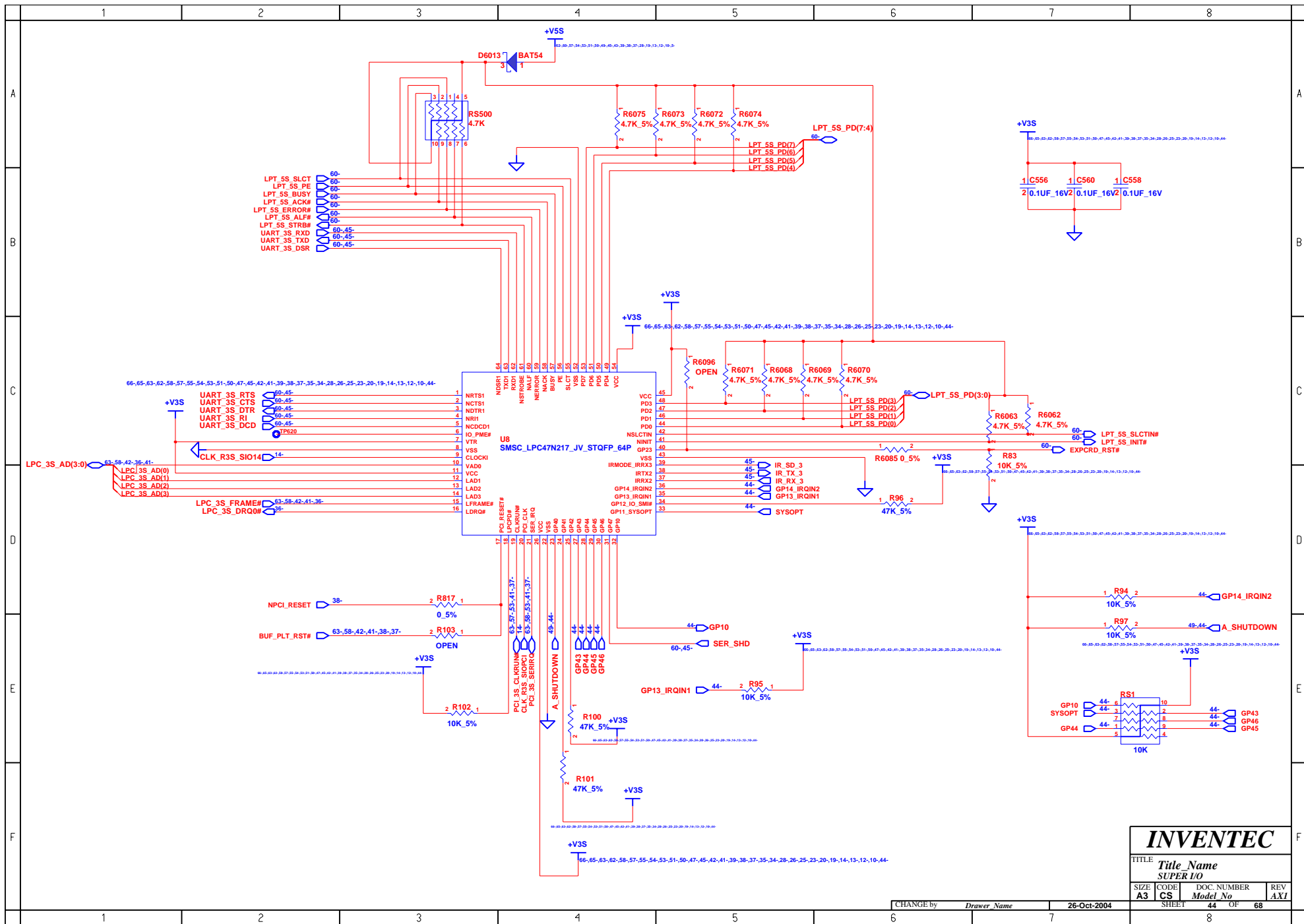


INVENTEC			
TITLE <i>Title_Name</i>			
FWH			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AXI
SHEET		42 OF	68

CHANGE by *Drawer Name* 1-Dec-2004

**INVENTEC**

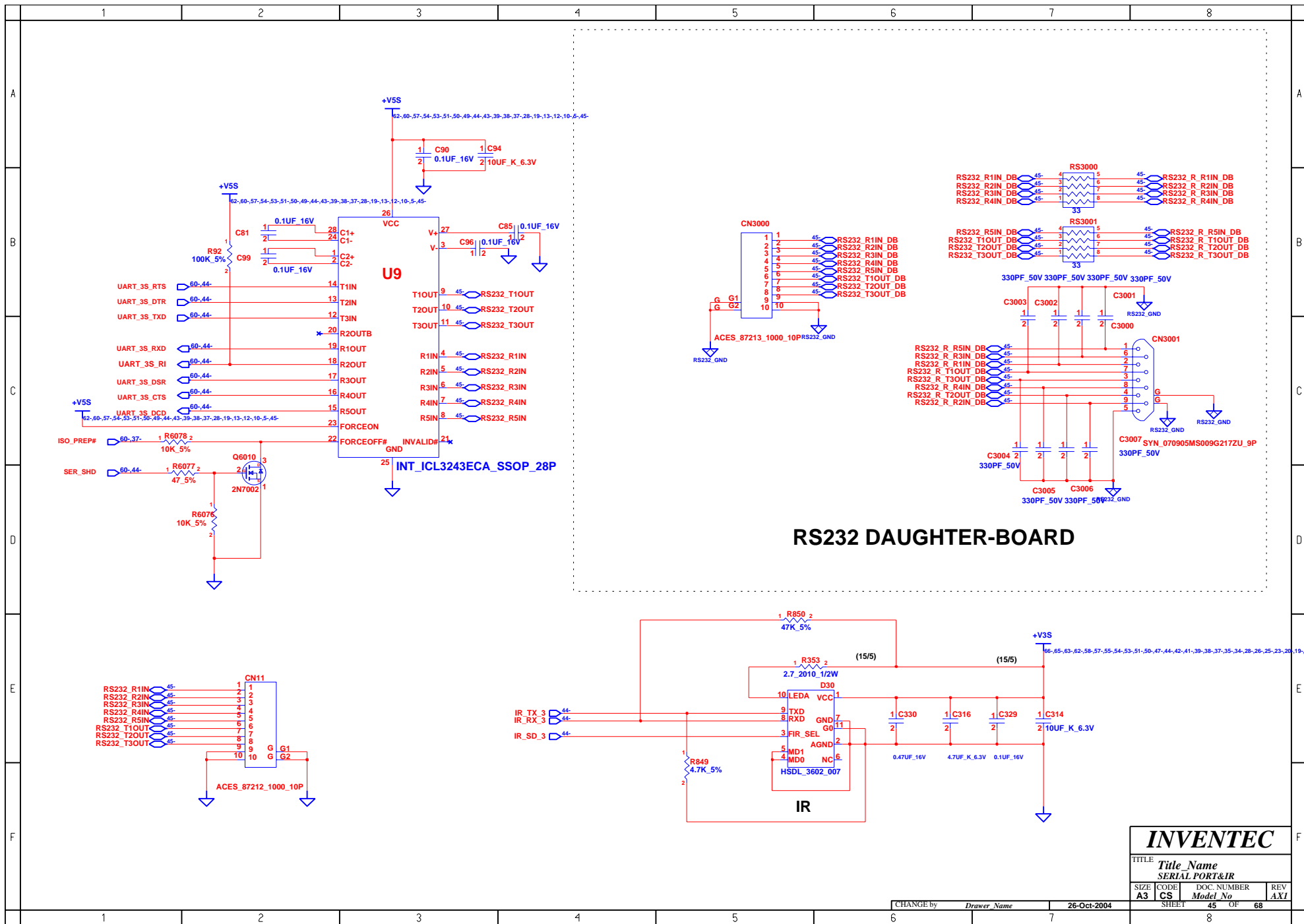
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SIZE	CODE	DOC. NUMBER	REV
A3	CS	<i>Model No</i>	<i>AXI</i>



INVENTEC

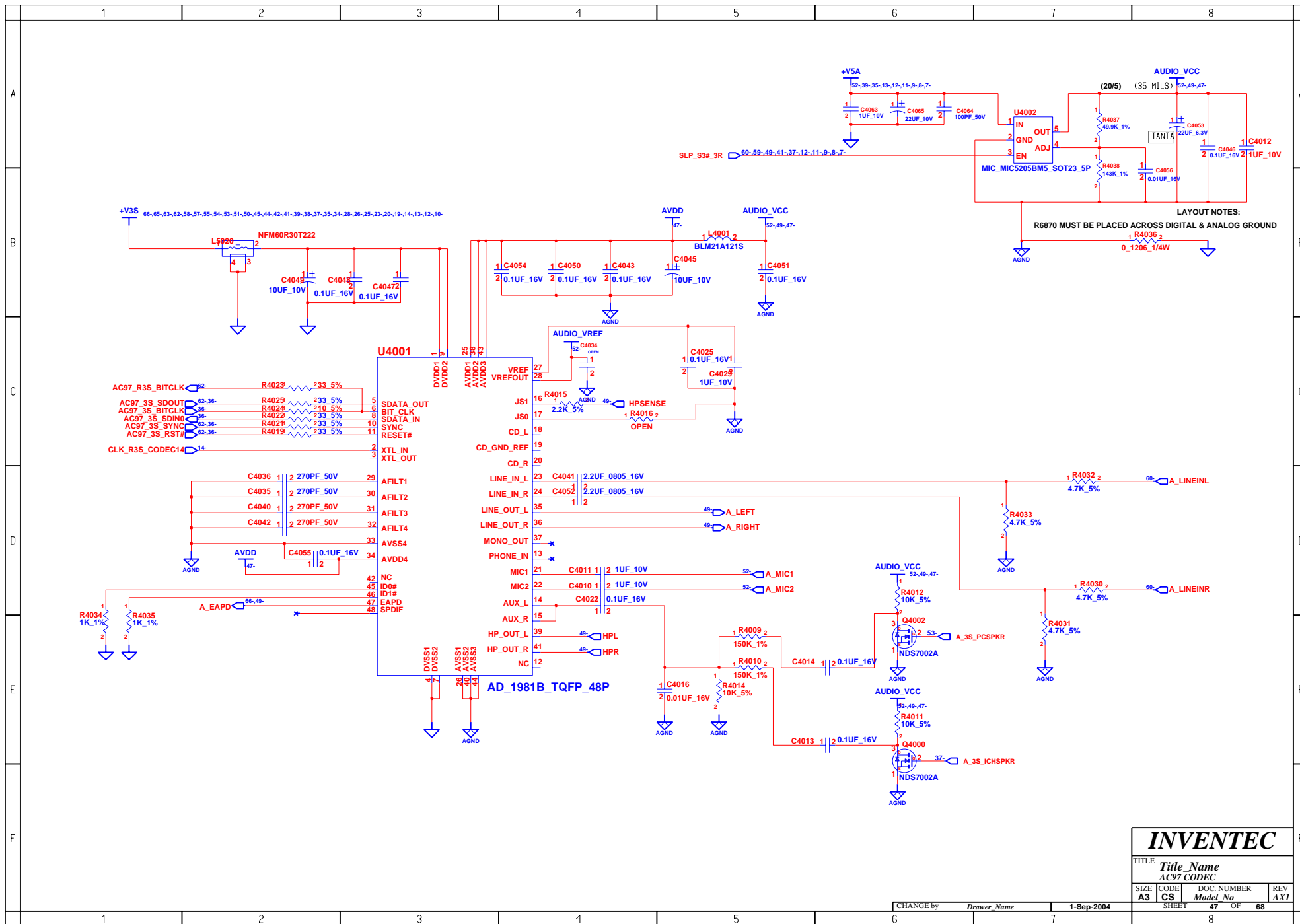
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SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI

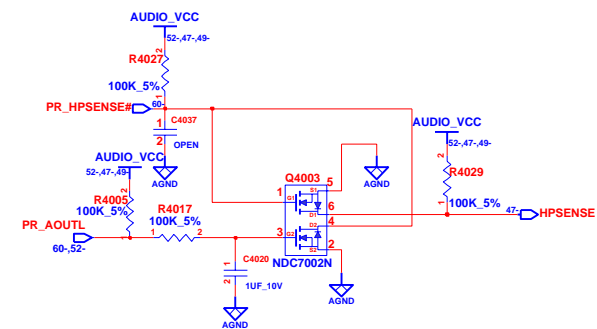
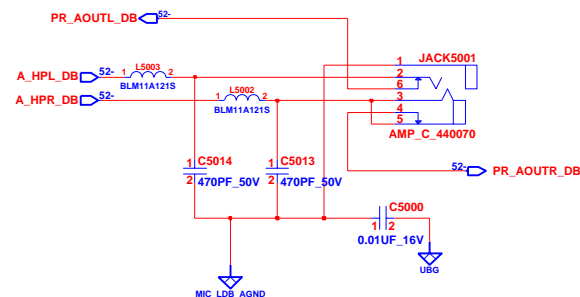
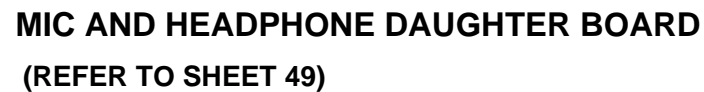
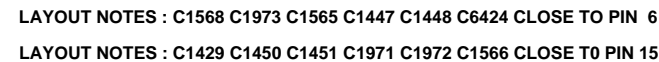
CHANGE by	Drawer Name	26-Oct-2004	SHEET 44 OF 68
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B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

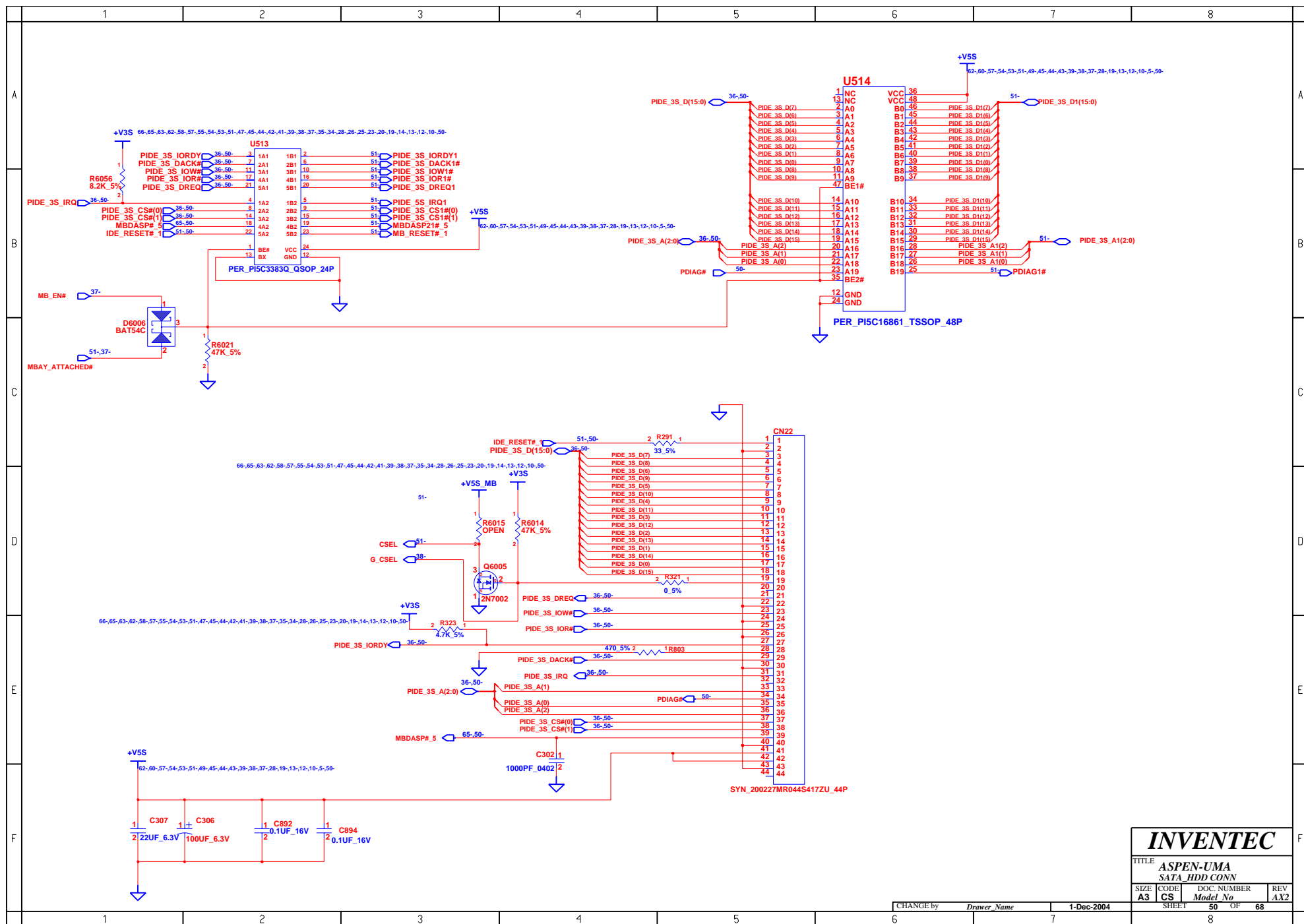
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SIZE A3	CODE CS	DOC. NUMBER Model No	REV AXI
CHANGE by <i>Drawer Name</i>		1-Sep-2004	
SHEET		46	OF 68



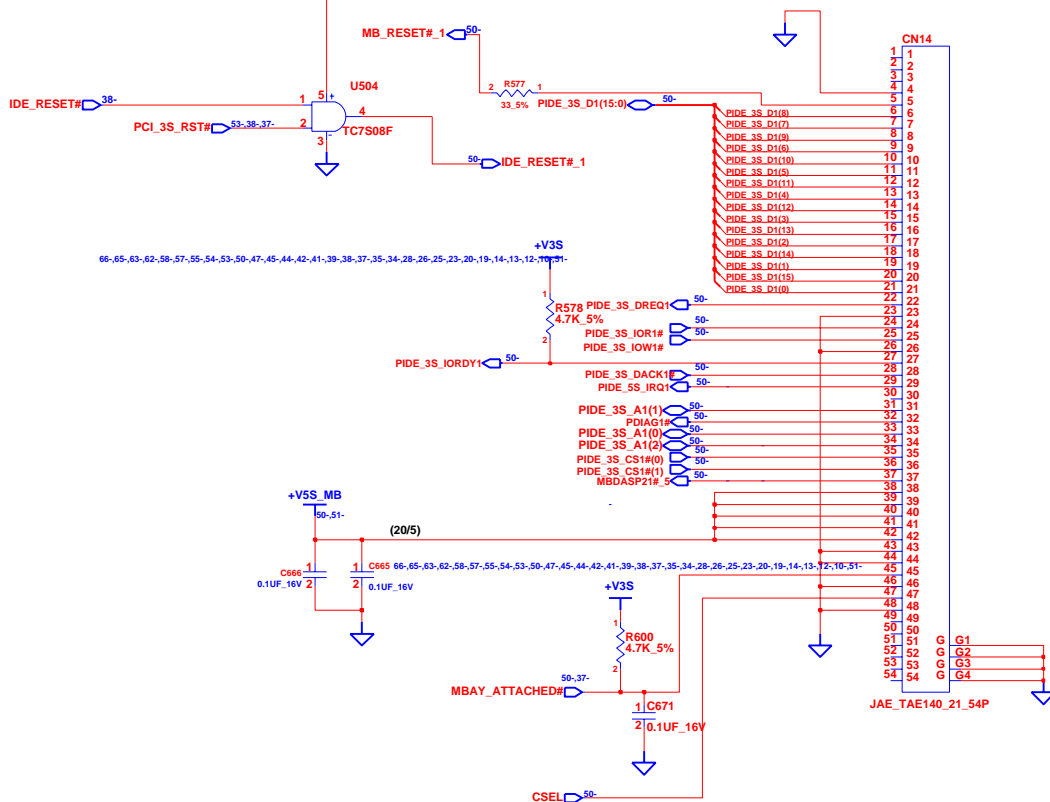


TITLE	ASPEN-UMA AUDIO AMP & HP JACK
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SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AX2

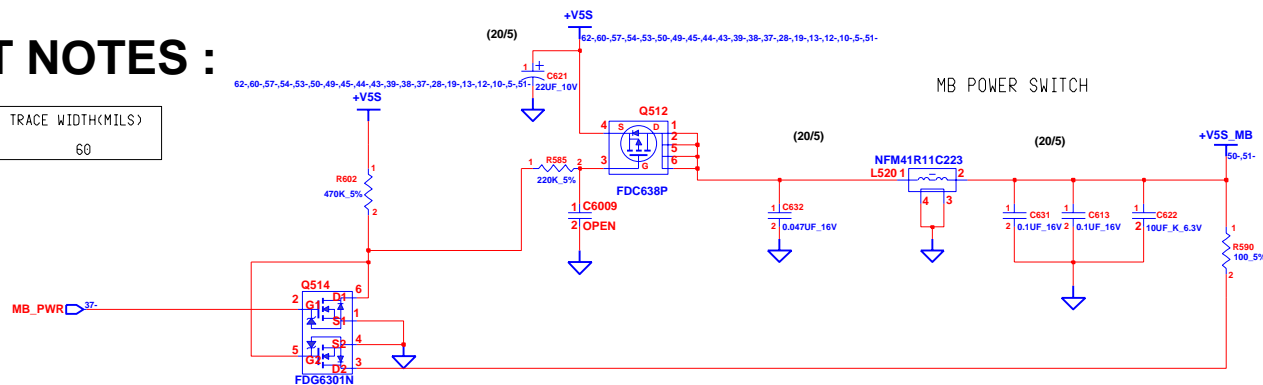


LAYOUT NOTE : WILL BE CHANGE PUSH CONN 54 PIN



LAYOUT NOTES :

SIGNAL NAME	TRACE WIDTH(MILS)
+V5S_MB	60



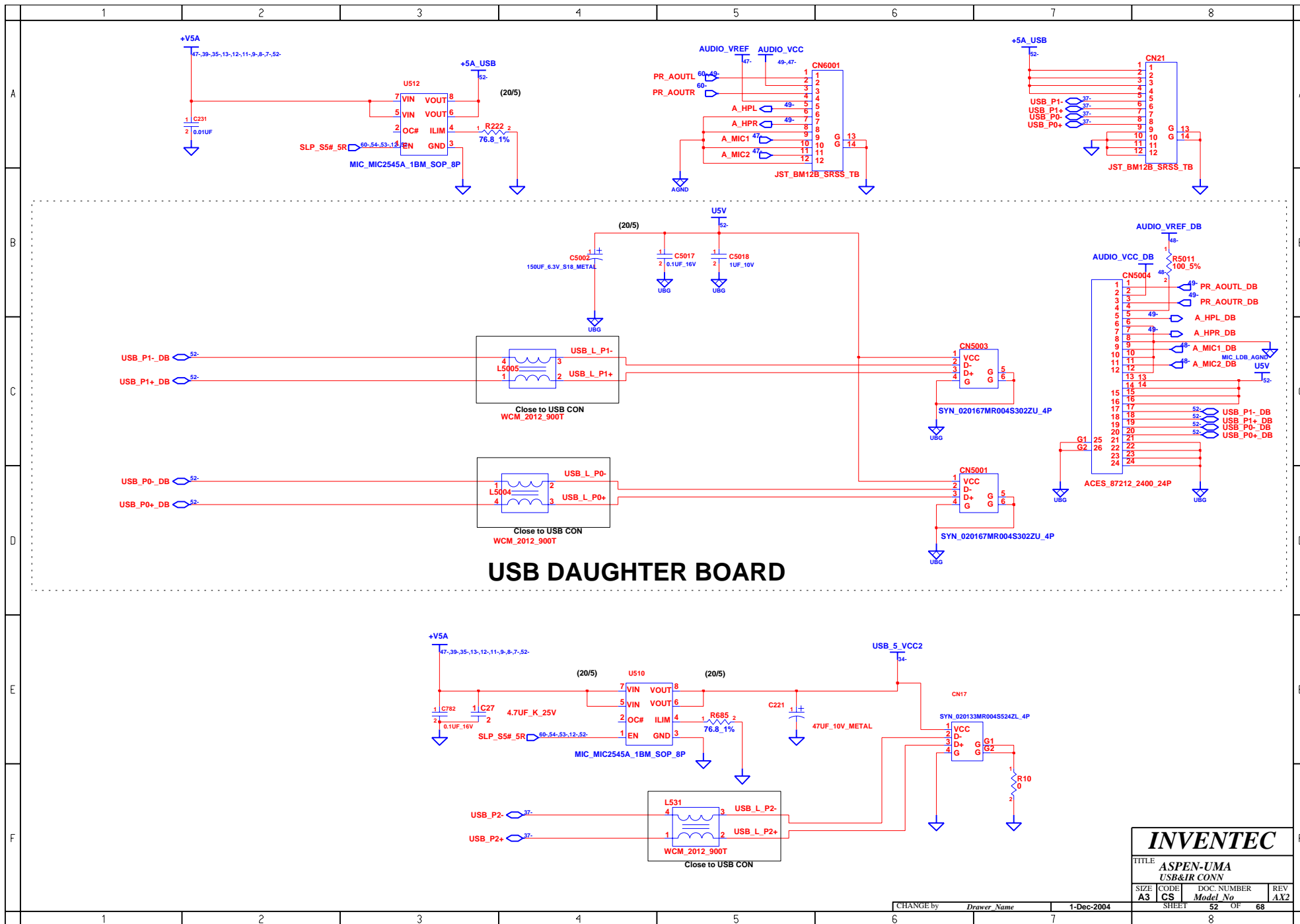
INVENTEC

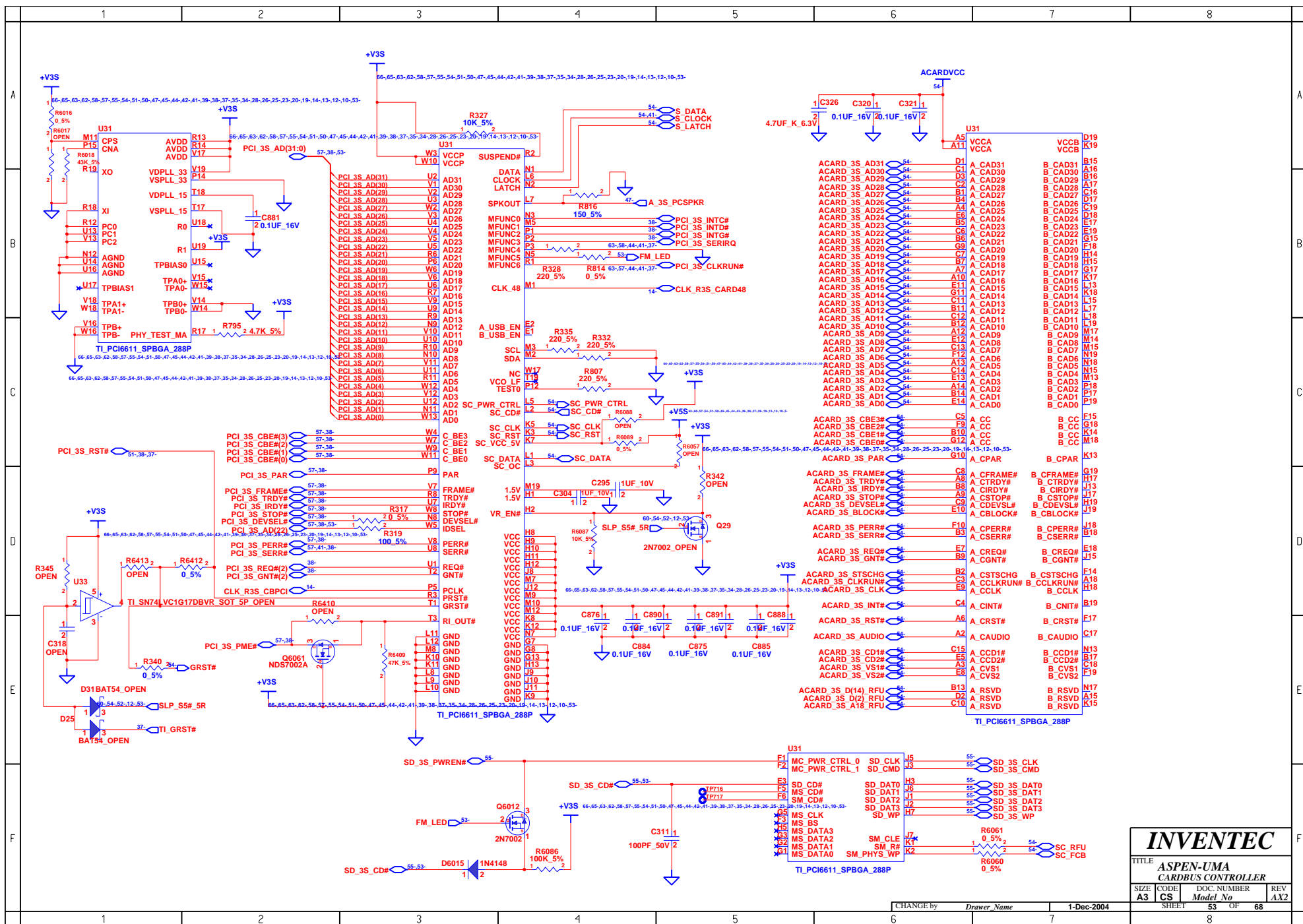
TITLE
ASPEN-UMA
MULTIBAY CONN

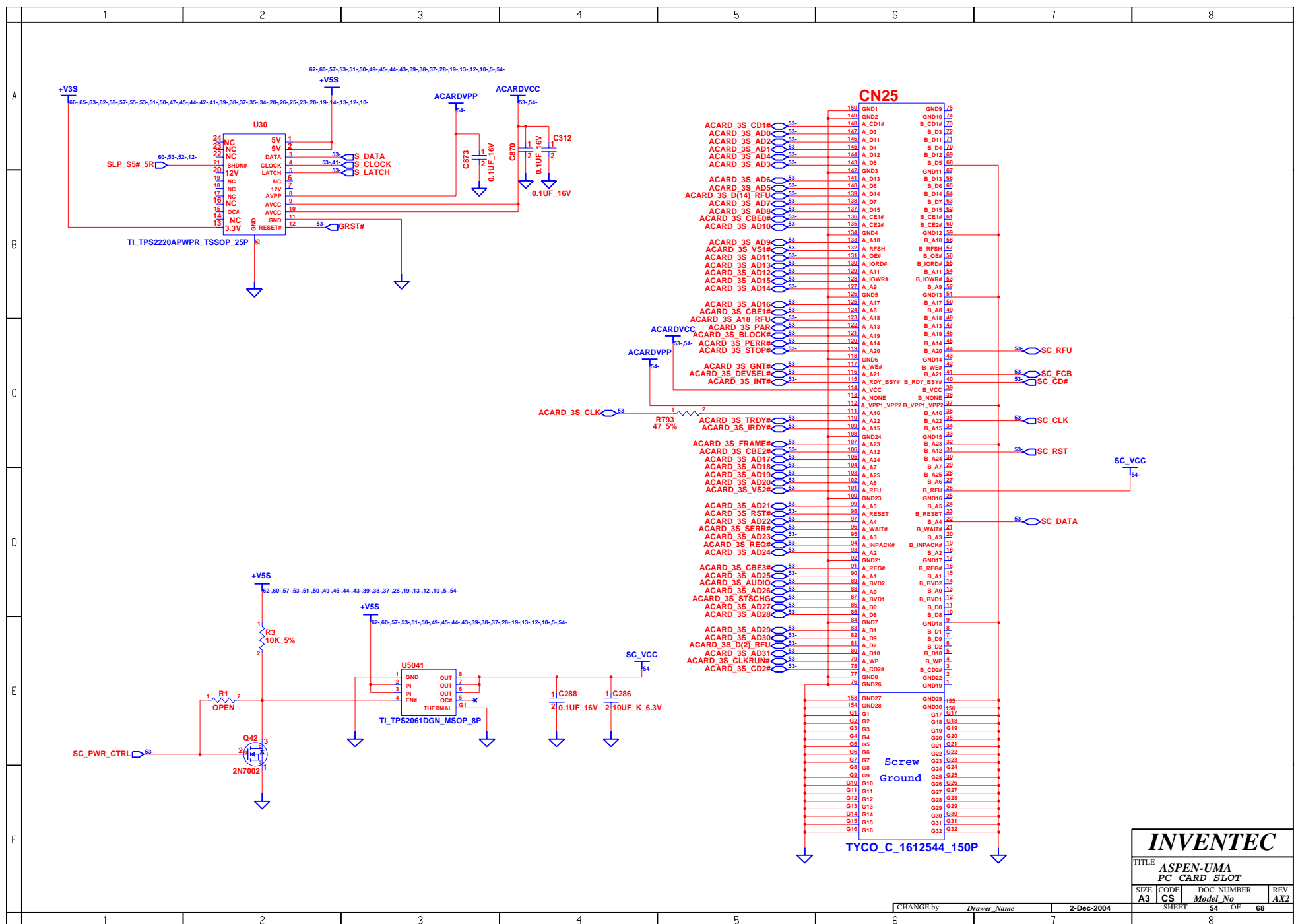
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AX2

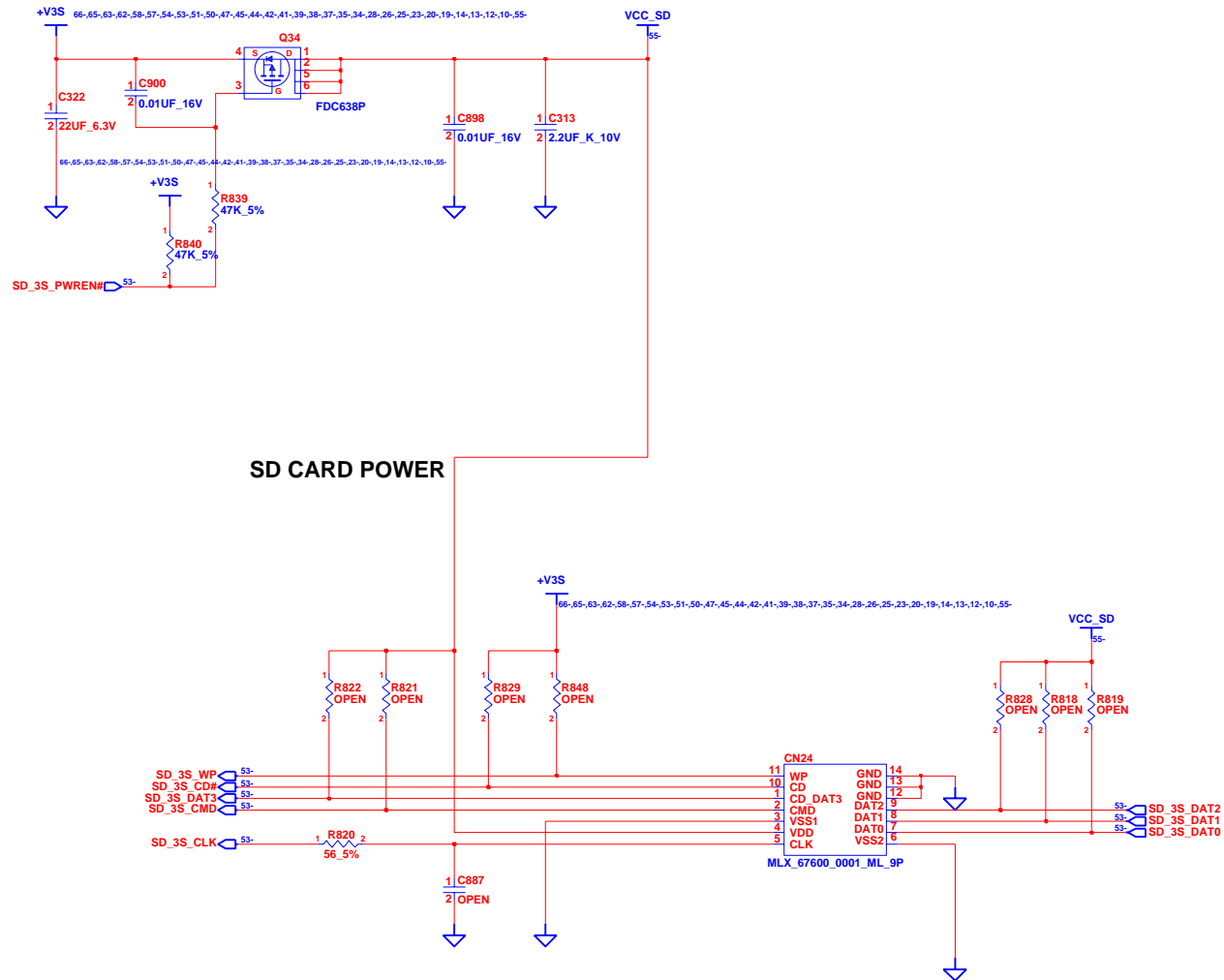
CHANGE by *Drawer Name* 1-Dec-2004

SHEET 51 OF 68









INVENTEC			
TITLE ASPEN-UMA SD CARD CONN			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV AX2
SHEET 55 OF 68			

CHANGE by *Drawer Name* 1-Dec-2004

	1	2	3	4	5	6	7	8	
A	<div>BLANK</div>								A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

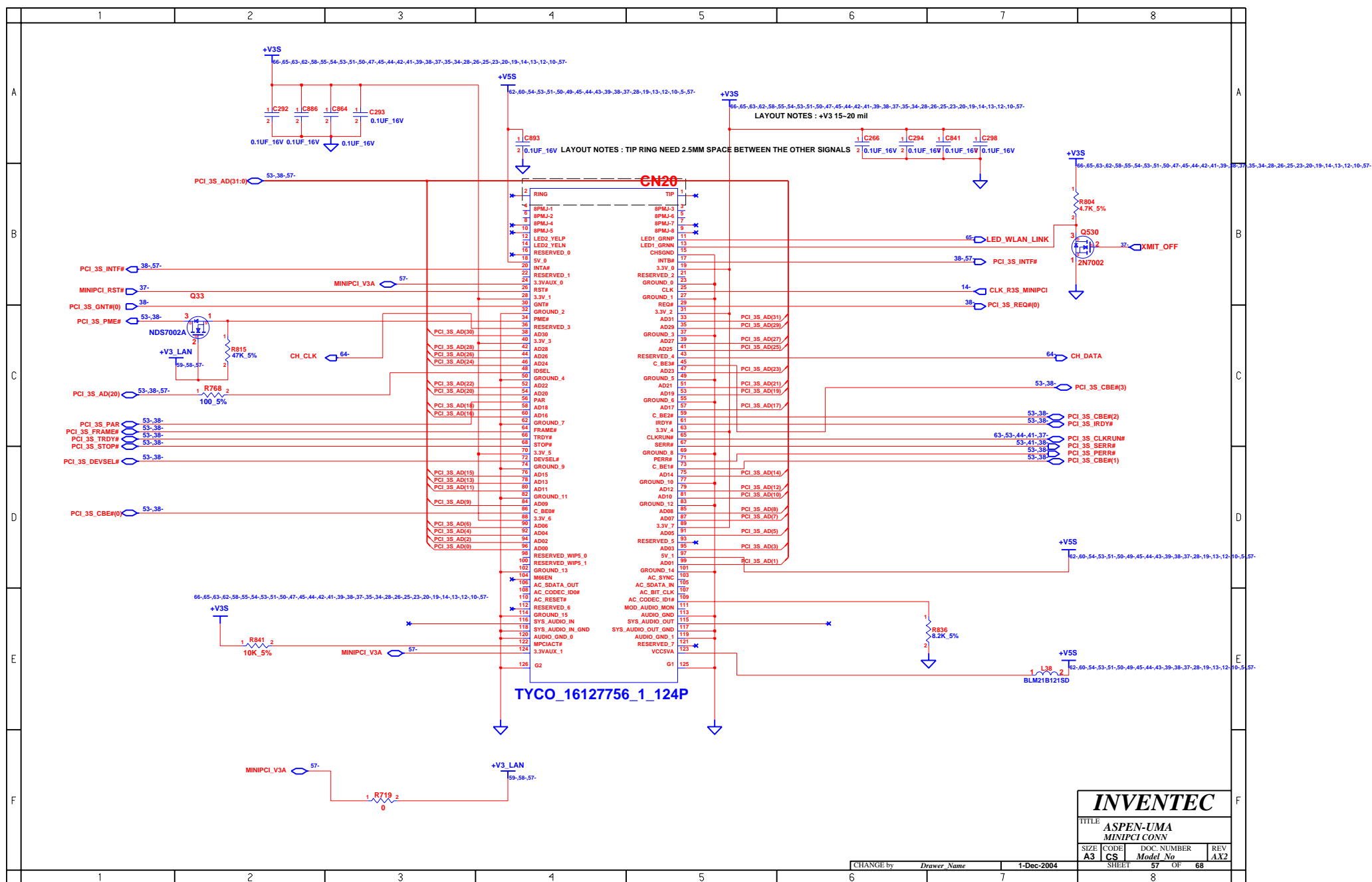
INVENTEC

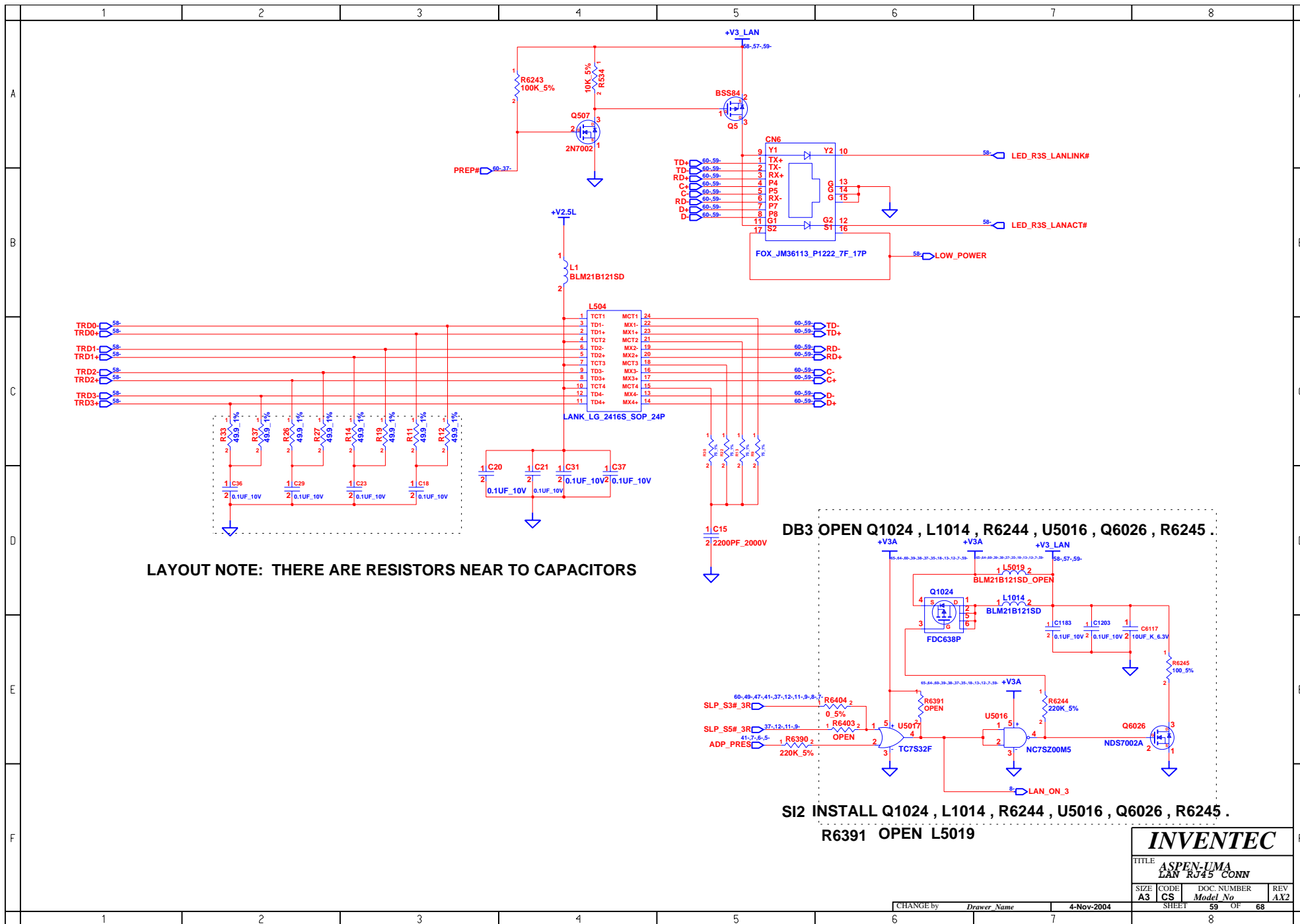
TITLE **ASPEN-UMA
DAUGHTER BOARD CNN**

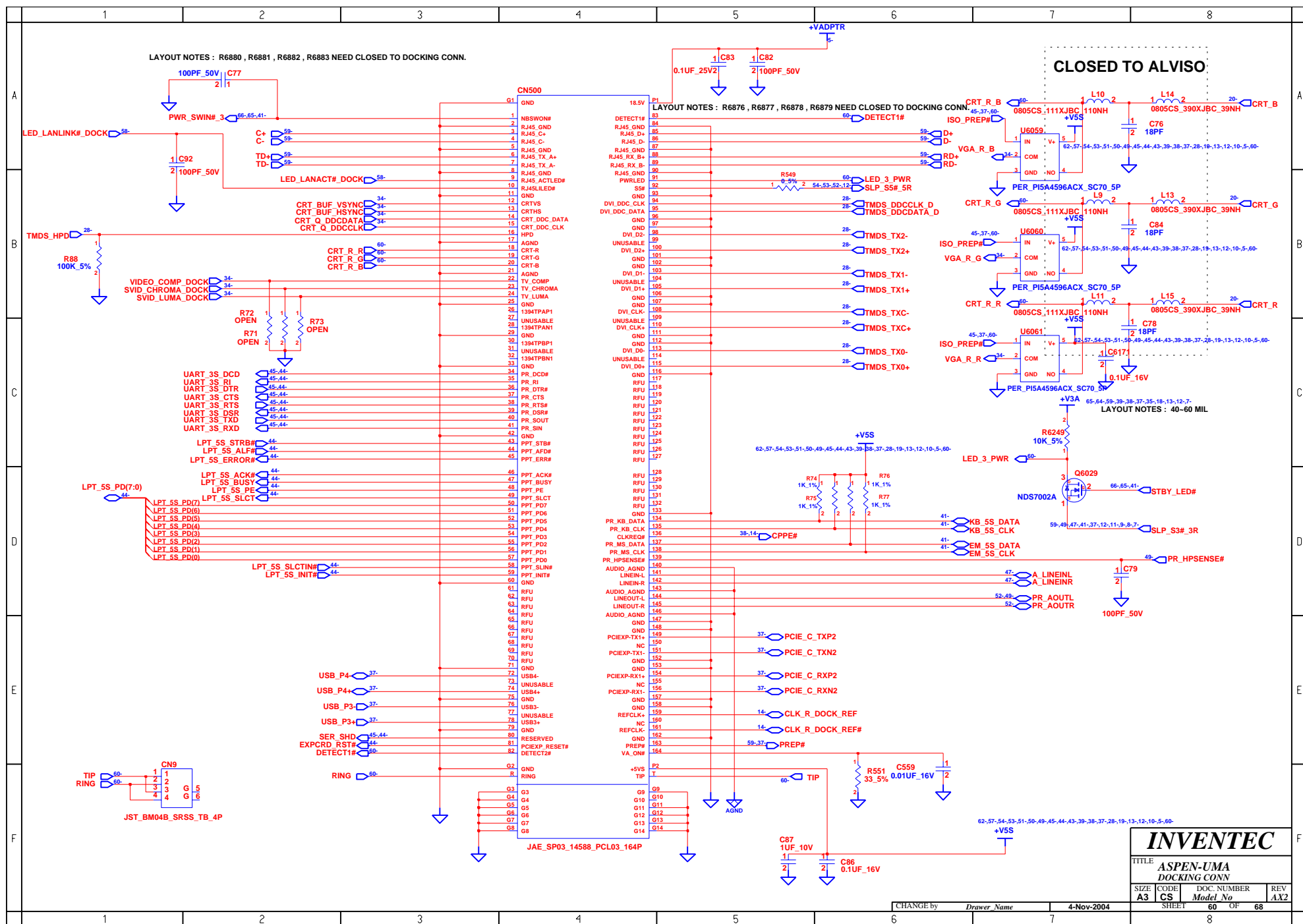
SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV AX2
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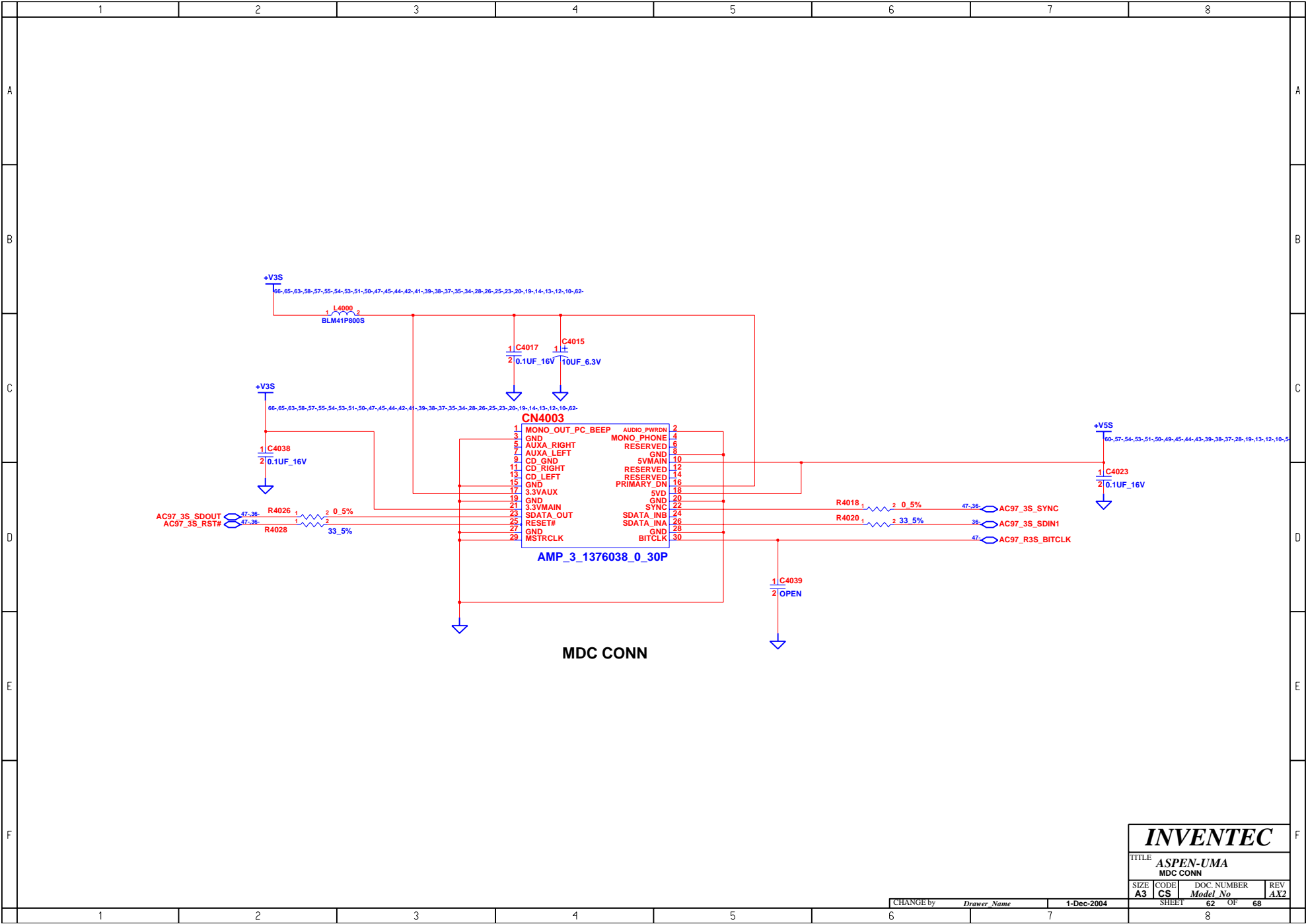
CHANGE by *Drawer Name* 30-Aug-2004

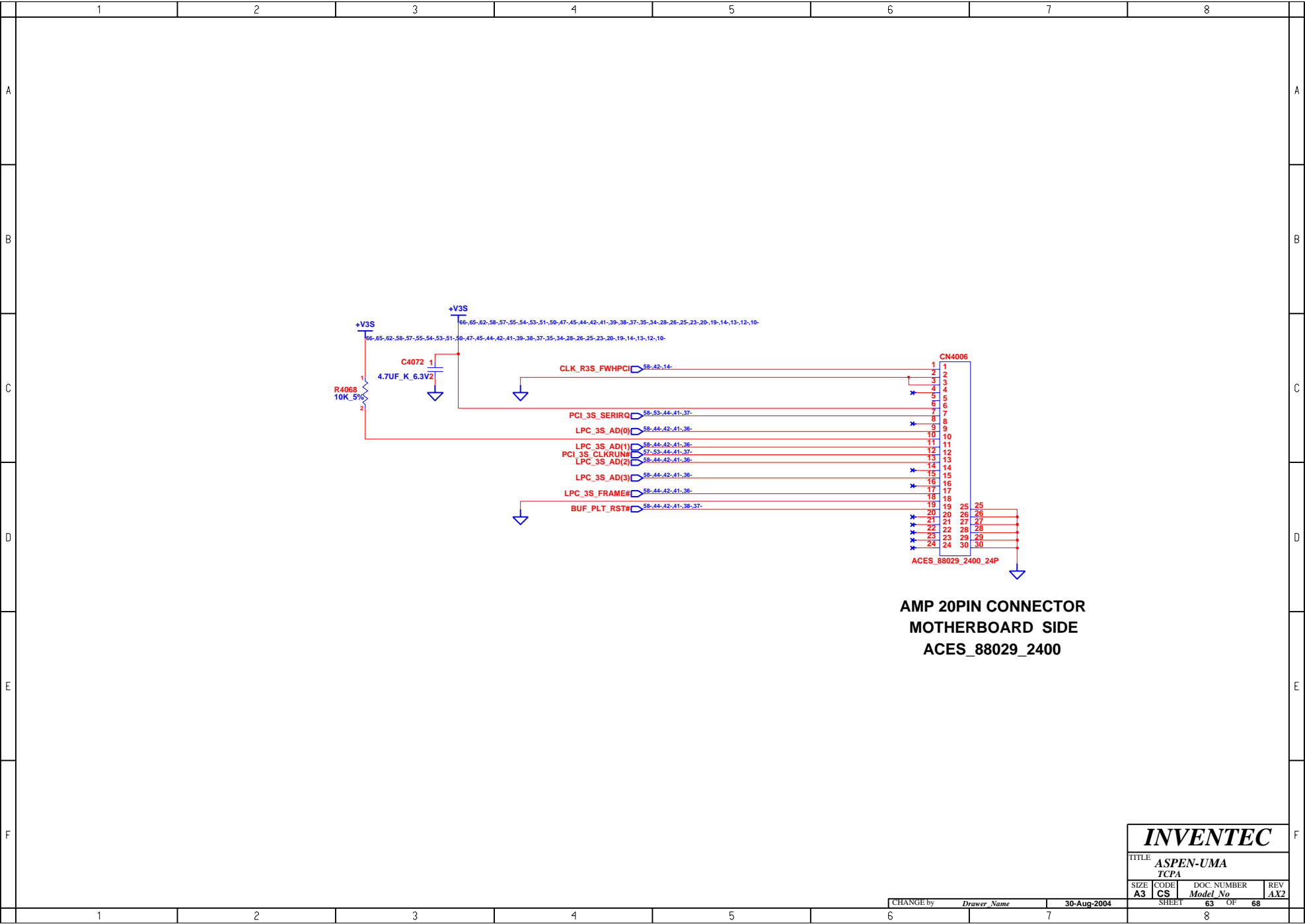
SHEET 56 OF 68









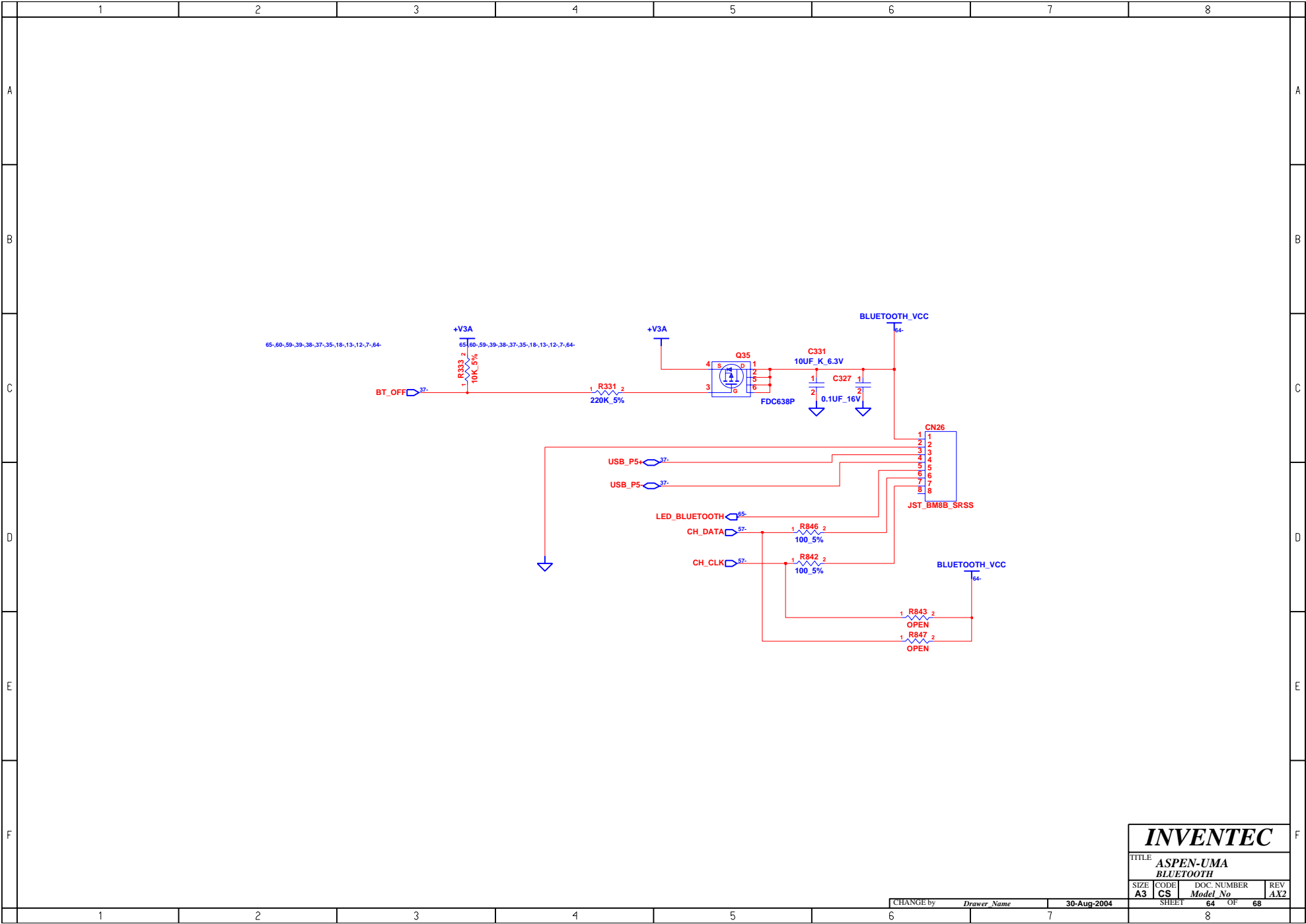


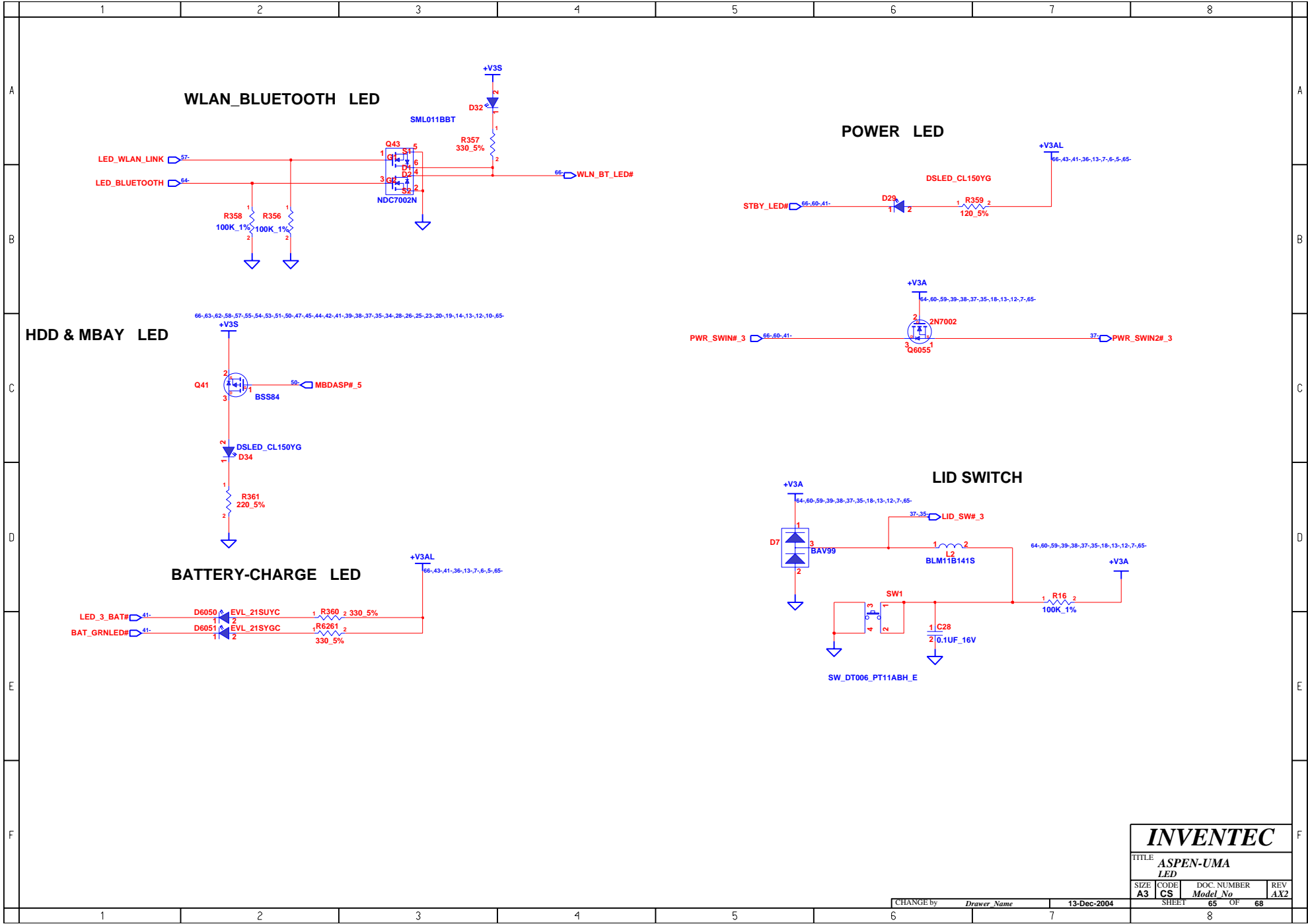
INVENTEC

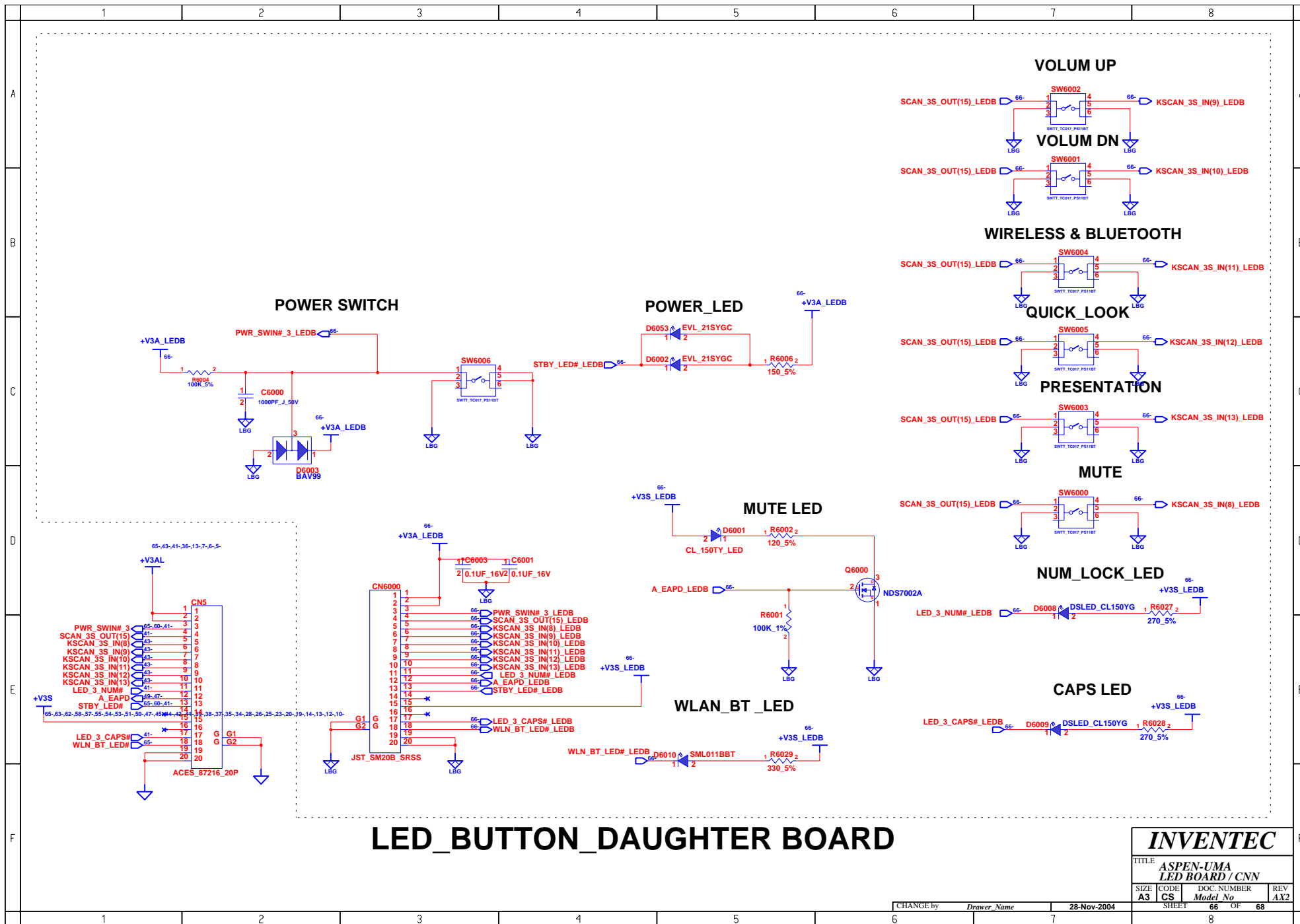
TITLE
ASPEN-UMA
TCPA

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	AX2

CHANGE by	Drawer Name	30-Aug-2004
SHEET		63 OF 68







1

2

3

4

5

6

7

8

LCD CABLE

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

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31

32

33

34

35

36

37

38

39

40

1

2

3

4

5

6

7

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9

10

11

12

13

14

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16

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20

21

22

23

24

25

26

27

28

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30

31

32

33

34

35

36

37

38

39

40

USB CABLE

1

2

3

4

5

6

7

8

9

10

11

12

+5A USB

+5A USB

+5A USB

+5A USB

USB P1+

USB P1+

USB P0-

USB P0-

GND

GND

GND

GND

1

2

3

4

5

6

7

8

9

10

11

12

1

2

3

4

5

6

7

8

9

10

11

12

TOUCHPAD CABLE

1

2

3

4

5

6

7

8

9

10

11

12

+VSS

+VSS

IM SS DATA

IM SS CLK

GND

GND

GND

GND

GND

GND

GND

GND

1

2

3

4

5

6

7

8

9

10

11

12

1

2

3

4

5

6

7

8

9

10

11

12

POINT STICK

1

2

3

4

5

6

7

8

+VSS

GND

GND

GND

GND

GND

GND

GND

1

2

3

4

5

6

7

8

1

2

3

4

5

6

7

8

MIC CABLE

1

2

INT MIC_CN_DB

GND

1

2

1

2

keyboard

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

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21

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28

29

30

SCAN_3S_OUT(0)W

SCAN_3S_IN(9)

SCAN_3S_IN(11)

SCAN_3S_IN(13)

SCAN_3S_IN(7)

SCAN_3S_IN(6)

SCAN_3S_IN(5)

SCAN_3S_OUT(1)

SCAN_3S_OUT(10)

SCAN_3S_OUT(6)

SCAN_3S_OUT(7)

SCAN_3S_OUT(4)

SCAN_3S_OUT(8)

SCAN_3S_OUT(3)

SCAN_3S_IN(3)

SCAN_3S_IN(1)

SCAN_3S_IN(2)

SCAN_3S_IN(4)

SCAN_3S_IN(0)

SCAN_3S_IN(10)

SCAN_3S_IN(12)

SCAN_3S_IN(8)

SCAN_3S_IN(14)

SCAN_3S_OUT(5)

SCAN_3S_OUT(2)

SCAN_3S_OUT(0)

SCAN_3S_OUT(11)

1

2

3

4

5

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7

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11

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16

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19

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13

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17

18

19

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29

30

SPEAKER CABLE

1

2

3

4

SPK_OUT_L-

SPK_OUT_L+

SPK_OUT_R-

SPK_OUT_R+

1

2

3

4

1

2

3

4

BLUETOOTH CABLE

1

2

3

4

5

6

7

8

BLUETOOTH_VCC

GND

GND

USB_P5+

USB_P5-

LED_BLUETOOTH

CH_DATA

CH_CLK

1

2

3

4

5

6

7

8

1

2

3

4

5

6

7

8

PCI 3S_RST#

1

2

3

4

5

6

7

8

9

10

11

12

13

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19

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PIDE_3S_D7

PIDE_3S_D0

PIDE_3S_D6

PIDE_3S_D9

PIDE_3S_D5

PIDE_3S_D10

PIDE_3S_D4

PIDE_3S_D11

PIDE_3S_D3

PIDE_3S_D12

PIDE_3S_D01

PIDE_3S_D13

PIDE_3S_D13

PIDE_3S_D11

PIDE_3S_D10

PIDE_3S_D00

PIDE_3S_D15

GND

PIDE_3S_DREQ

GND

PIDE_3S_IOW#

GND

PIDE_3S_IOR#

GND

PIDE_3S_IORDY

GND

PIDE_3S_DACK#

GND

PIDE_3S_IRQ

GND

PIDE_3S_A1

GND

PIDE_3S_A10

PIDE_3S_A12

PIDE_3S_CS0

PIDE_3S_CS1

MBDASP# 5

+VSS

+VSS

+VSS

SATA_C_TXP0

SATA_C_TXN0

+VSS

+VSS

+VSS

SATA_C_RXN0

SATA_C_RXP0

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41

42

43

44

45

46

47

48

49

50

SW/B CABLE

1

2

3

4

5

6

7

8

9

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11

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13

14

15

16

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18

19

20

+V3A

+V3A

PWR SWIR# 3

SCAN_3S_OUT(15)

KSCAN_3S_IN(8)

KSCAN_3S_IN(9)

KSCAN_3S_IN(10)

KSCAN_3S_IN(11)

KSCAN_3S_IN(12)

KSCAN_3S_IN(13)

LED_3_NUM#

A_EAPD

LED_3_PWR#

STANDBY SW#

SUP_53_5R

QUICK LOCK#

WLN BY LED#

GND

GND

GND

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

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INVENTEC

TITLE

ASPEN-UMA

CABLE

SIZE

A3

CODE

CS

DOC. NUMBER

Model No

REV

AX2

CHANGE by

Drawer Name

30-Aug-2004

SHEET

67

OF

68

IEC / HP Aspen_UMA MV Schematic Changes								<i>December 10, 2004</i>
HP Confidential Information						Open Items		
Item #	Project	Component / Subsection	PG. #	Description of Requested Change	Date Open+F7 / Closed	Requested By / Owner	Status / Aspen	Aspen FBK/Date
1	UMA	V2.5L	8	Improve the RGB signal waveform on CRT monitor R6247 from 909k change to 1M_1% 60130B10049T	2004/11/17	IEC	Open	sch1117 done
2	UMA	ALVISO	23	Improve the S-Video & RGB signal waveform for S-Video & RGB monitor. 1.L5014 pin 1 C6059 change to 47UF capacitor (OXi cap). 2.L5015 pin 1 C6063 change to 47UF capacitor (OXi cap.) 3.C216 change to 47UF capacitor (OXi cap.) 4.Remove C6068.	2004/11/29	IEC	Open	sch1129 done
3	UMA	Power	11	Change U6064 +V0.9 limit regulator circuit for DDR2. Remove R640 , C734 , C195 , C735 , C196 , C193 add C6176 1uf , C6172 , C6173 , C6174 , C6175 10uf.	2004/11/29	HP	Open	sch1129 done
4	UMA	LED	66	1.Add LED D6053 EVL_21SYGC for machine ID recommend. 2.Change D6002 to EVL_21SYGC.	2004/11/29	HP	Open	sch1129 done
5	UMA	Switch Board	66	Change switch Board trace from Top side & Bottom side to internal layer a surface used GND to Cover it this change for safty ESD recommend.	2004/11/29	IEC	Open	sch1129 done
6	UMA	serial Board	45	Change Serial Board trace from Top side & Bottom side to internal layer a surface used GND to cover it this change for Safty ESD recommend.	2004/11/29	IEC	Open	sch1129 done
7	UMA	Power	7	Move D6048 , C6162 , R6283 placement this change for machine recommend.	2004/11/29	IEC	Open	sch1129 done
8	UMA	ICH-6	37	Change C882,C883 from 10pF to 18pF for RTC accuracy	2004/11/29	IEC	Open	sch1129 done
9	UMA	ALVISO ICH-6	23 23 36	For EMI recommend: 1.Add C6188,C6189,C6190 0.01uF_16V connect +V1.5S for EMI improve +V1.5S power plane. 2.Add C6185,C6186,C6187 0.01uF_16V connect +V1.8 for EMI improve +V1.8 power plane 3.Add C6191 0.01uF_16V connect CN7 RTCBAT to improve EMI noise.	2004/12/2	IEC	Open	sch1202 done
10	UMA	Power	11	Add two power via 30_16 on +V0.9S power rail.	2004/12/3	IEC	open	sch1203 done
11	UMA	Power	13	Aspen UMA uses a 2.5V rail,R6150 should be changed to 107K_1%, and R6152 should be changed to 57.6K_1%.	2004/12/10	HP	open	sch1210 done