

MANAUS 10M

PreMP Build(A02)

2010.03.23

2010/03/16	2010-ECO-004887	A
DATE	CHANGE NO.	REV

	EE	DATE	POWER	DATE	INVENTEC MAS10M
DRAWER	Pet, Kobe	2010-03-16	Lo, Bin-Zhi	2010-03-16	
DESIGN	Pet, Kobe	2010-03-16	Lo, Bin-Zhi	2010-03-16	
CHECK	Pet, Kobe	2010-03-16	Lo, Bin-Zhi	2010-03-16	
RESPONSIBLE	Chiou, Bryan	2010-03-16	Liang, Tommy	2010-03-16	
SIZE = 3 VER : A02					TITLE MAS10M
FILE NAME : MAS10M-6050A2355301-MB-A02-26-20100322					
P/N : 6050A2355301					
					SIZE CODE DOC. NUMBER REV
					A3 CS /310A23553-0-0
					SHEET 1 OF 52

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26.DDR3 DIMM0	49.HALL SENSOR	
27.DDR3 DIMM1	50.Screw	
28.DDR DAMPING	51.EMI	
29.CRT CONN	52. power board	
30.LCM CONN		

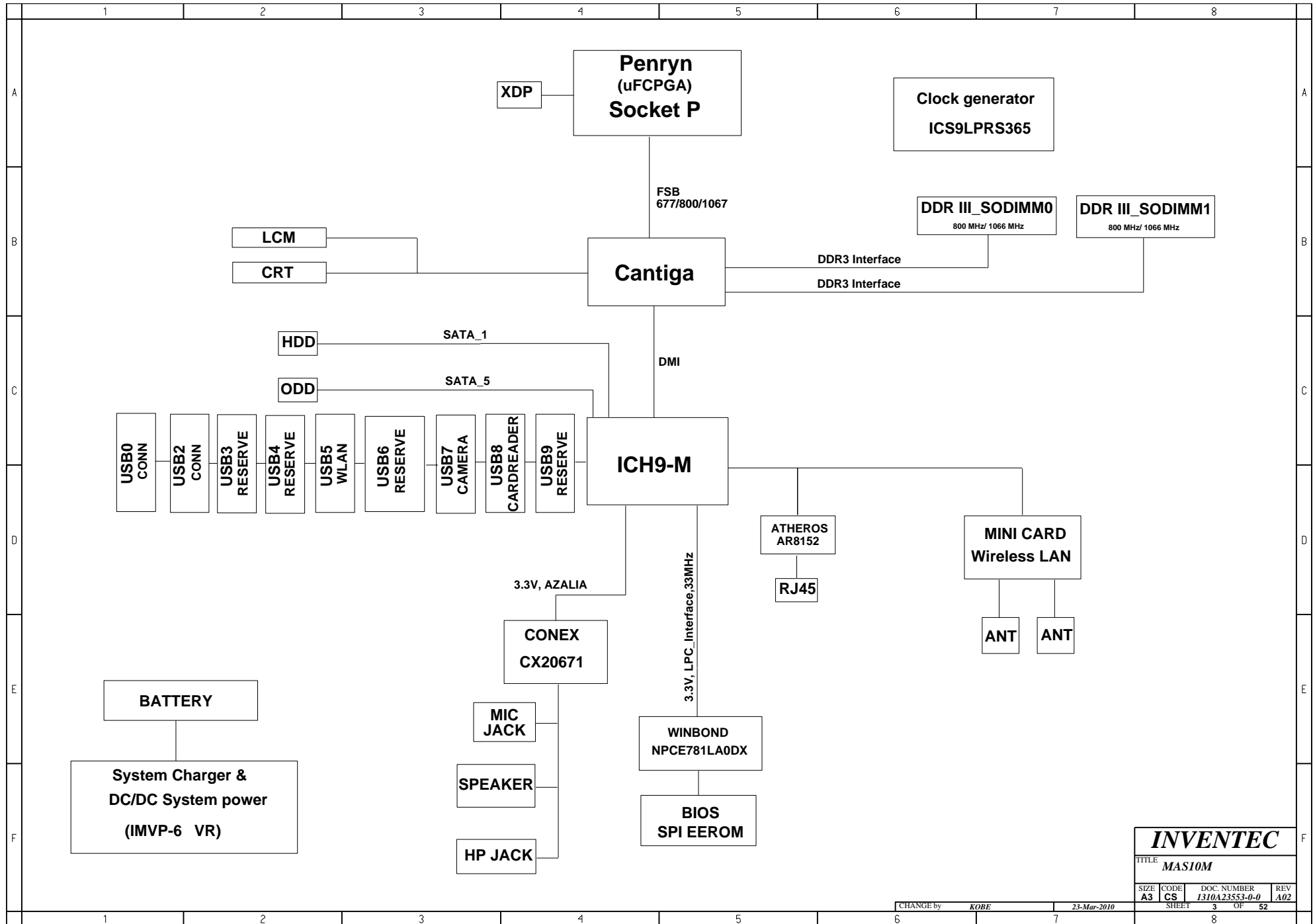
INVENTEC

TITLE **MAS10M**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02

SHEET	2	OF	52
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CHANGE by **KOB** 23-Mar-2010



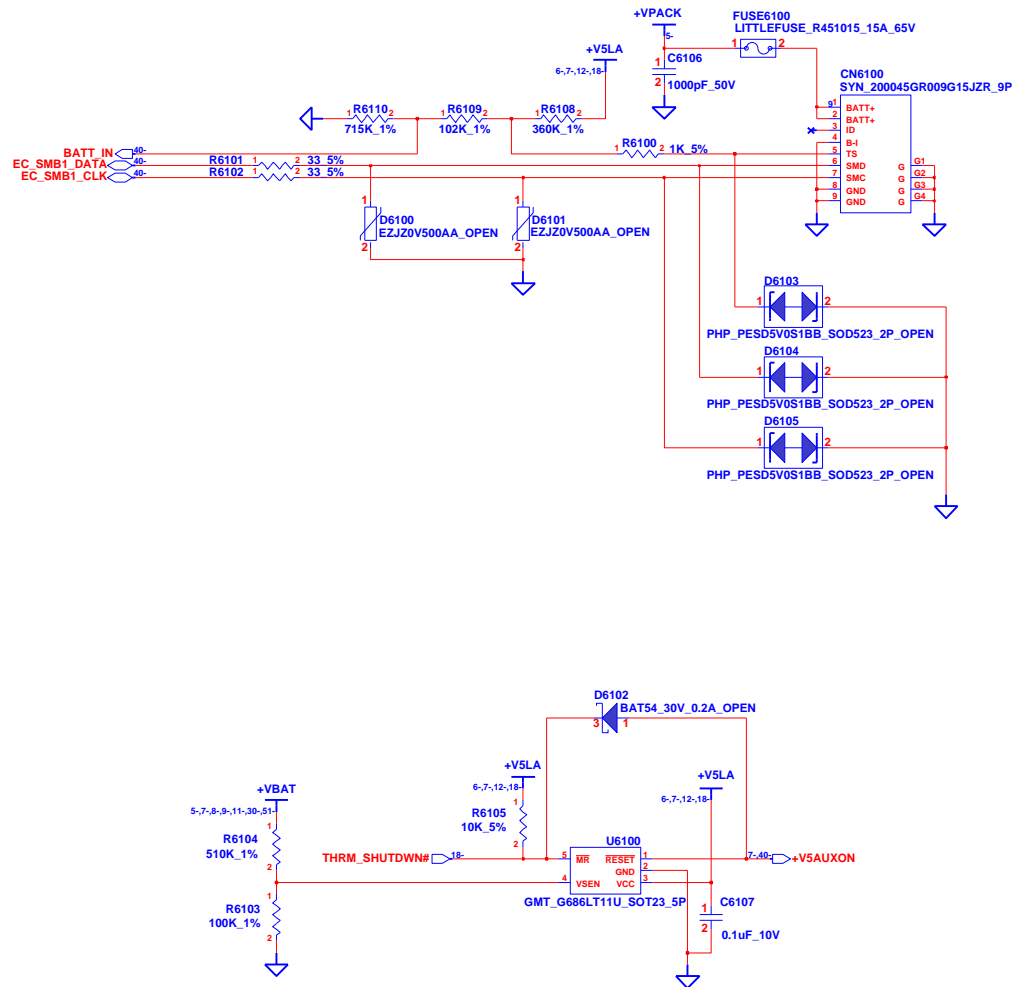
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TITLE **MAS10M**

SIZE A3	CODE CS	DOC. NUMBER I310A23553-0-0	REV A02
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CHANGE by **KOBE** 23-Mar-2010

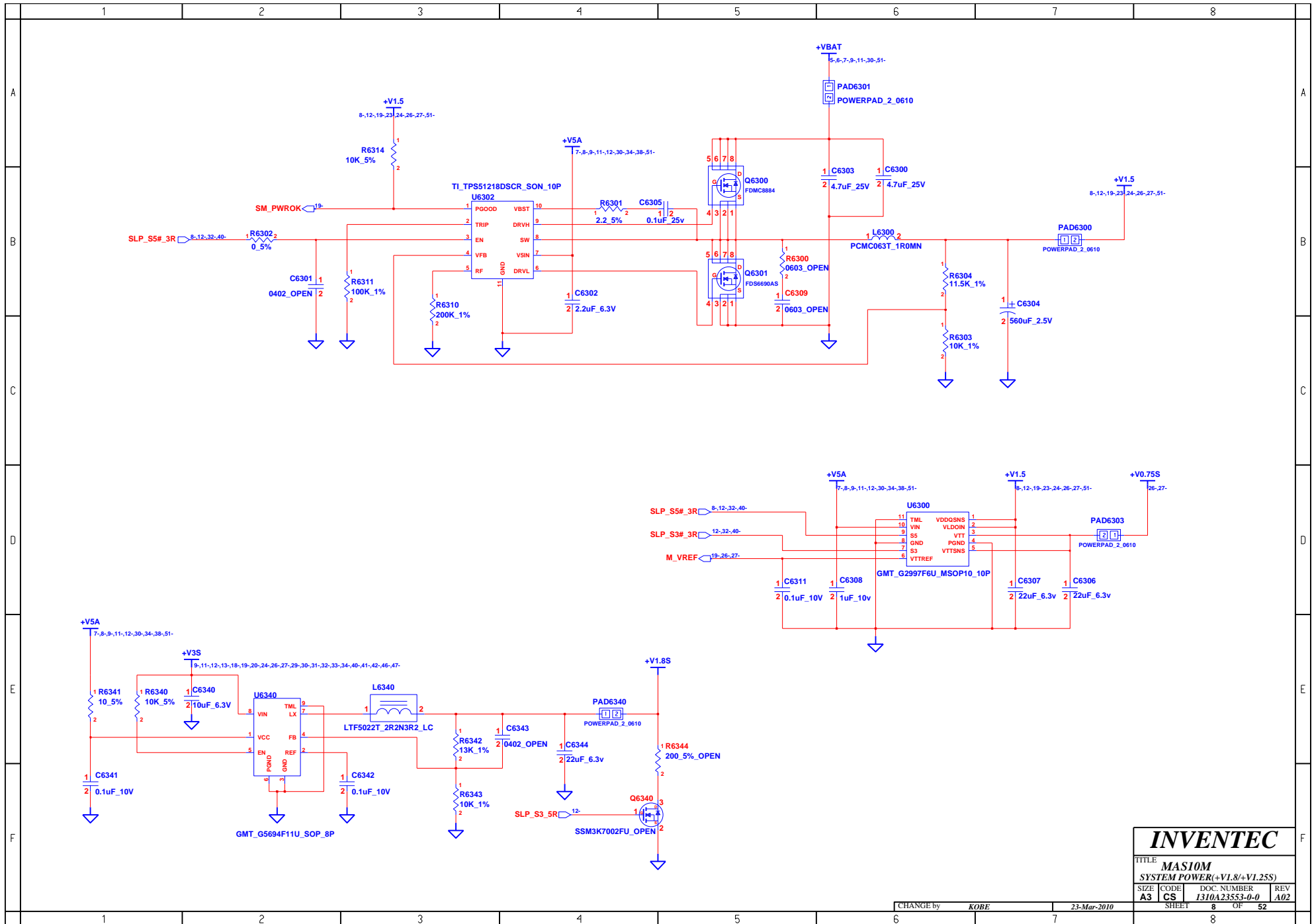
SHEET 3 OF 52



INVENTEC

TITLE			
SELECT & BATTERY CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02
SHEET		OF	52
6		8	

CHANGE by **KOBE** 23-Mar-2010

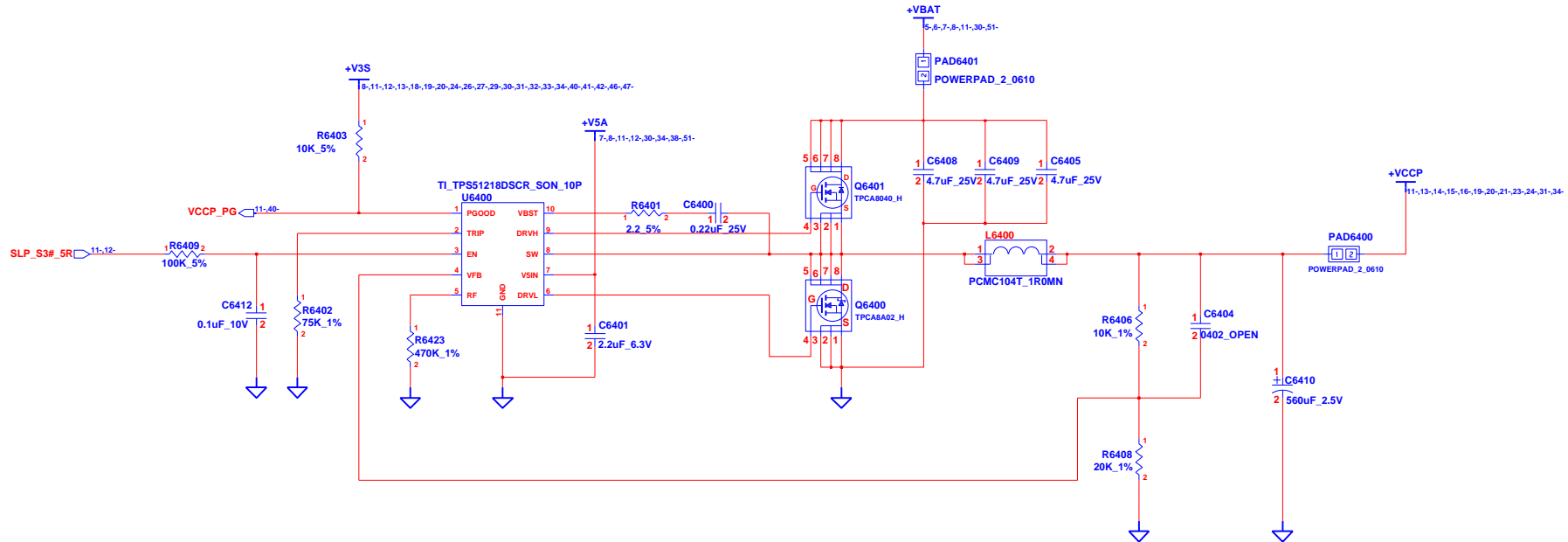


INVENTEC

TITLE		
MAS10M		
SYSTEM POWER(+V1.8/+V1.25S)		
SIZE	CODE	DOC. NUMBER
A3	CS	I310A23553-0-0
REV		A02

CHANGE by KOBE 23-Mar-2010

SHEET 8 OF 52



INVENTEC

TITLE			
MAS10M			
GRAPHIC POWER (+VGF_X_CORE)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02

CHANGE by KOBE 23-Mar-2010

SHEET 9 OF 52

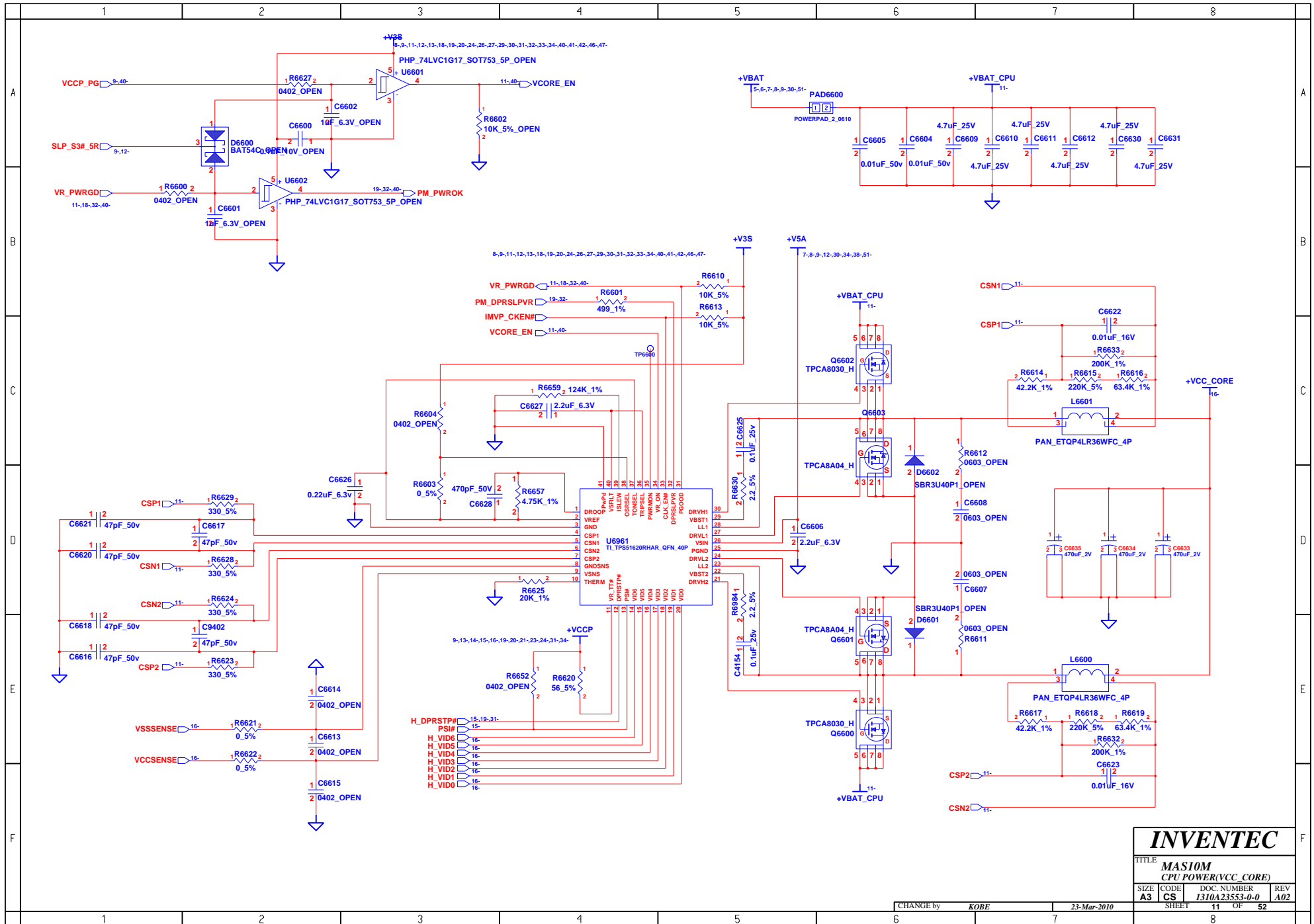
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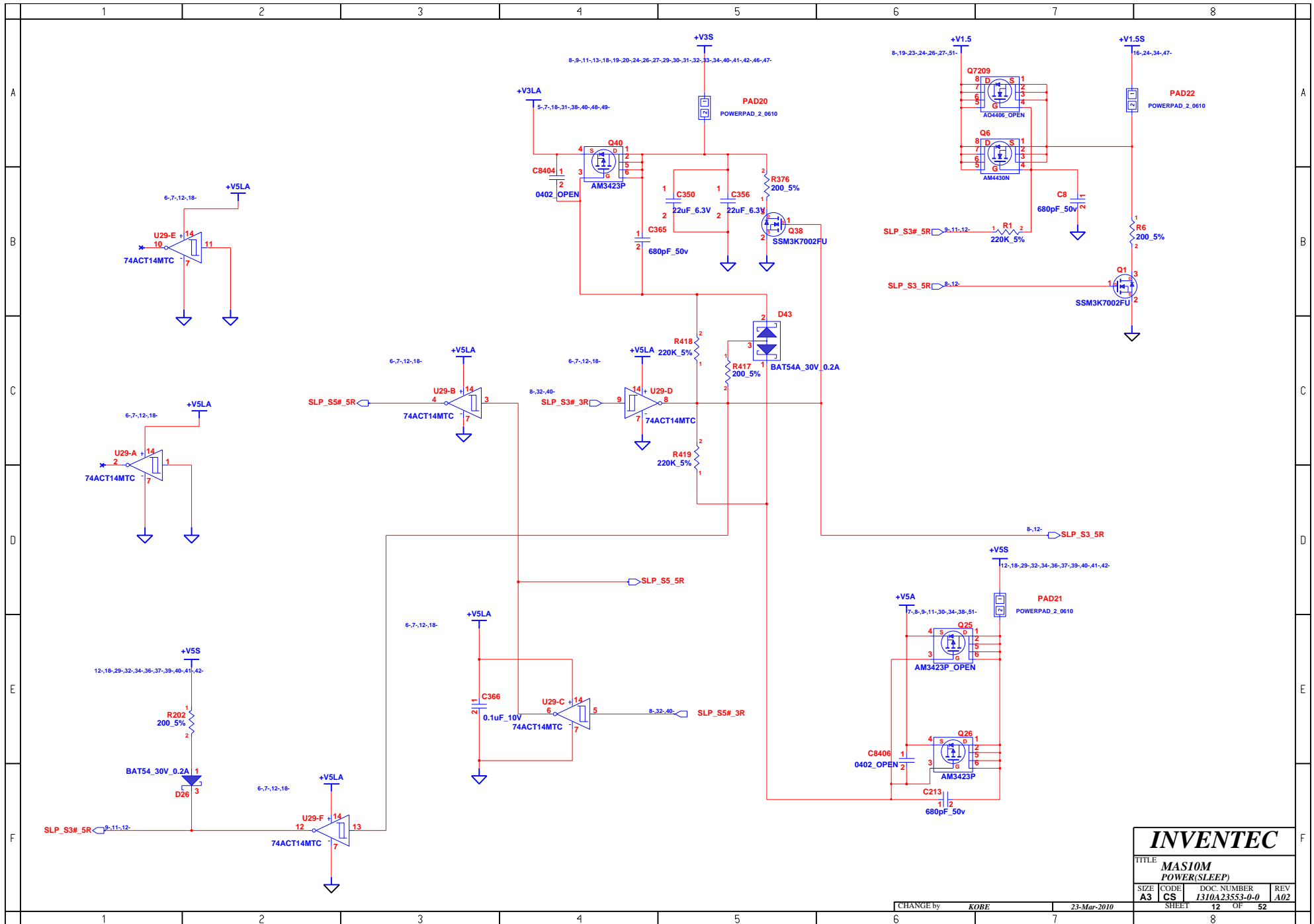
INVENTEC

TITLE			
MAS10M			
SYSTEM POWER(+VCCP/+V1.5S)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02

CHANGE by KOBE 23-Mar-2010

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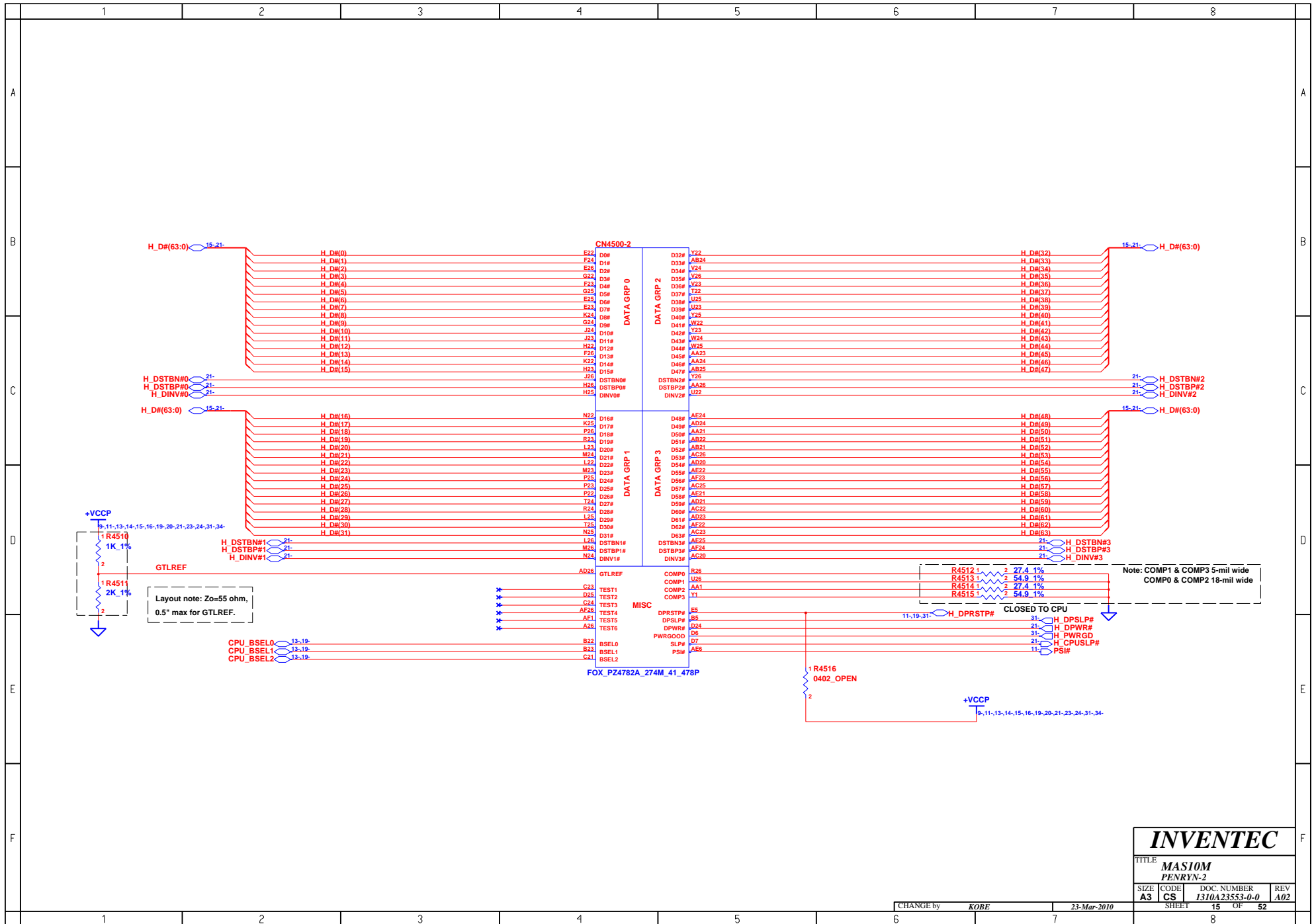
INVENTEC

TITLE
**MAS10M
POWER(SLEEP)**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02

CHANGE by **KOBE** 23-Mar-2010

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INVENTEC

TITLE			
MAS10M			
PENRYN-2			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02
SHEET		15	OF 52

CHANGE by KOBE 23-Mar-2010

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B									B
C									C
D									D
E									E
F									F

CN4500-4

A4

VSS001

A8

VSS002

A11

VSS003

A14

VSS004

A16

VSS005

A19

VSS006

A23

VSS007

AF2

VSS008

B6

VSS009

B8

VSS010

B11

VSS011

B13

VSS012

B16

VSS013

B19

VSS014

B21

VSS015

B24

VSS016

C5

VSS017

C8

VSS018

C11

VSS019

C14

VSS020

C16

VSS021

C19

VSS022

C2

VSS023

C22

VSS024

C25

VSS025

D1

VSS026

D4

VSS027

D8

VSS028

D11

VSS029

D13

VSS030

D16

VSS031

D19

VSS032

D23

VSS033

D26

VSS034

E3

VSS035

E6

VSS036

E8

VSS037

E11

VSS038

E14

VSS039

E16

VSS040

E19

VSS041

E21

VSS042

E24

VSS043

F5

VSS044

F8

VSS045

F11

VSS046

F13

VSS047

F16

VSS048

F19

VSS049

F2

VSS050

F22

VSS051

F25

VSS052

G4

VSS053

G11

VSS054

G23

VSS055

G26

VSS056

H3

VSS057

H6

VSS058

H21

VSS059

H24

VSS060

J4

VSS061

J5

VSS062

J22

VSS063

J25

VSS064

K1

VSS065

K4

VSS066

K23

VSS067

K26

VSS068

L3

VSS069

L6

VSS070

L21

VSS071

M2

VSS072

M5

VSS073

M22

VSS074

M25

VSS075

N1

VSS076

N4

VSS077

N23

VSS078

N26

VSS079

F3

VSS080

VSS081

P6

P21

P24

R2

R5

R22

R25

T1

T4

T23

T26

U3

U6

U21

U24

V2

V5

V22

V25

W1

W4

W23

W26

Y3

Y6

Y21

Y24

AA2

AA5

AA8

AA11

AA14

AA16

AA19

AA22

AA25

AB1

AB4

AB8

AB11

AB13

AB16

AB18

AB23

AB26

AC3

AC6

AC8

AC11

AC14

AC16

AC19

AC21

AC24

AD2

AD5

AD8

AD11

AD13

AD14

AD16

AD19

AD22

AD25

AE1

AE4

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AE26

AF2

AF6

AF8

AF11

AF13

AF16

AF19

AF21

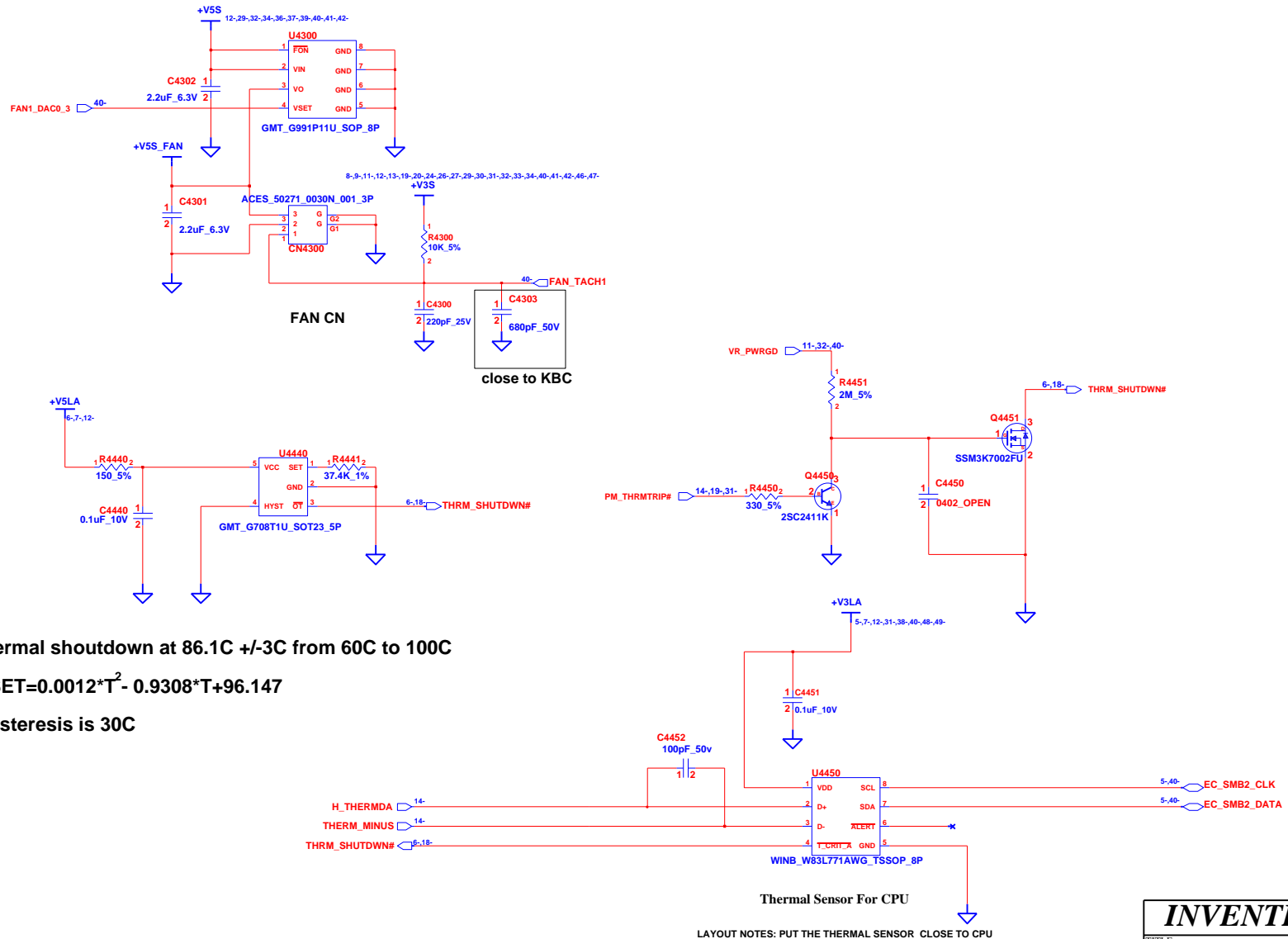
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AF25

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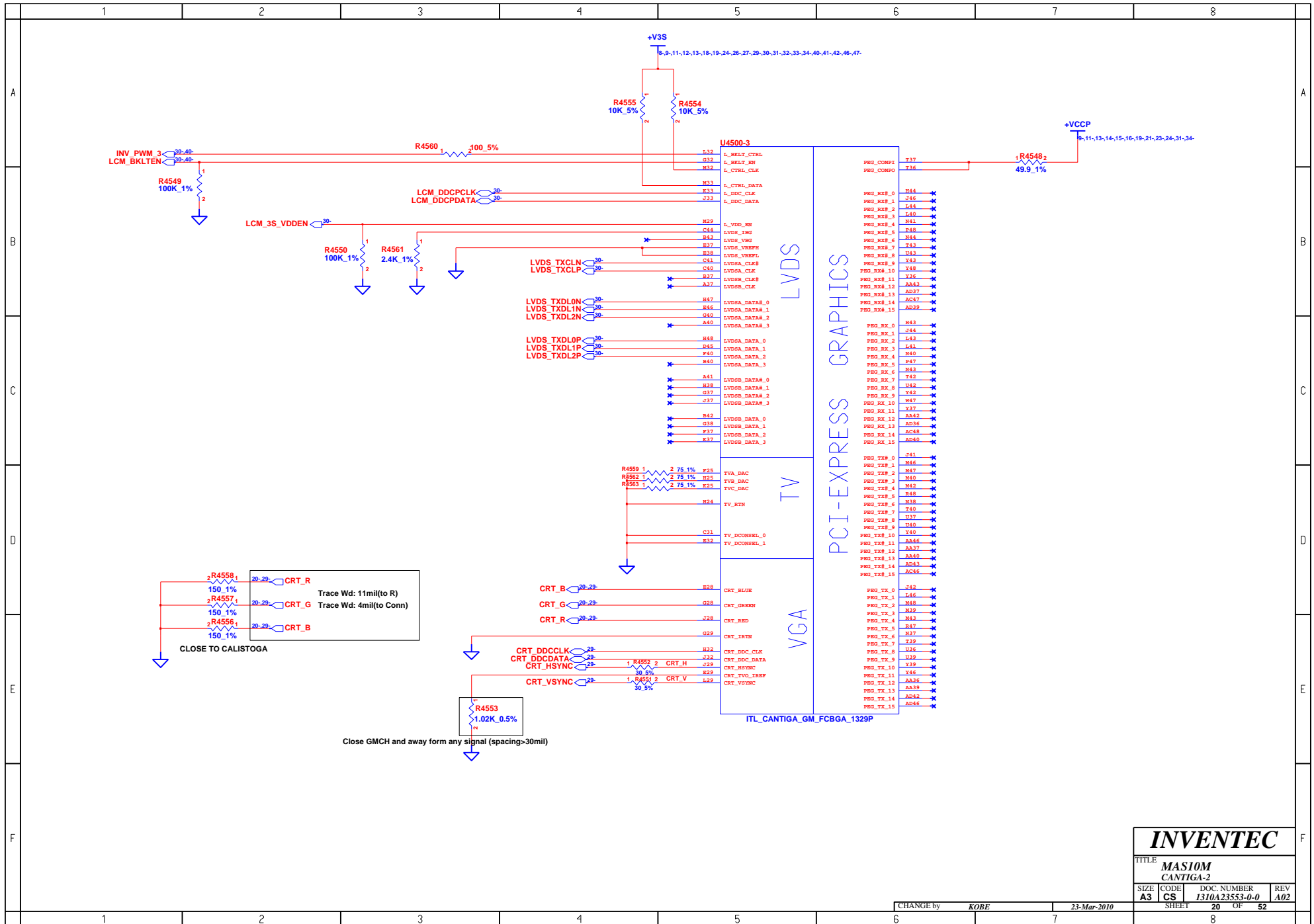
INVENTEC			
TITLE			
MAS10M			
PENRYN-4			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23553-0-0	A02
SHEET		17	OF 52

CHANGE byKOBET23-Mar-2010



INVENTEC			
TITLE: MAS10M THERMAL&FAN CONTROLLER			
SIZE: A3	CODE: CS	DOC. NUMBER: I310A23553-0-0	REV: A02
SHEET 18		OF 52	

CHANGE by KOBE 23-Mar-2010



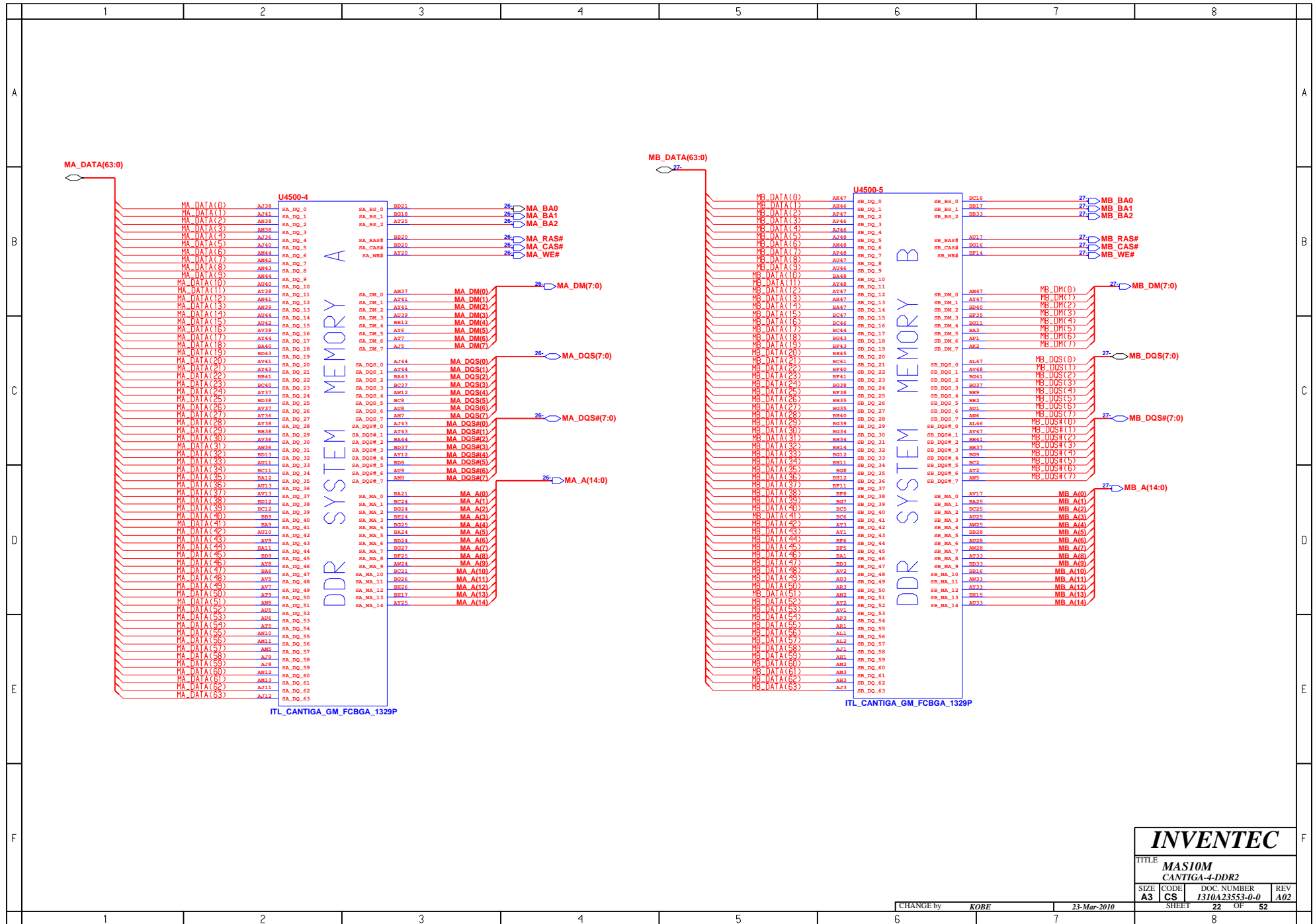
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TITLE
**MAS10M
CANTIGA-2**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23553-0-0	A02

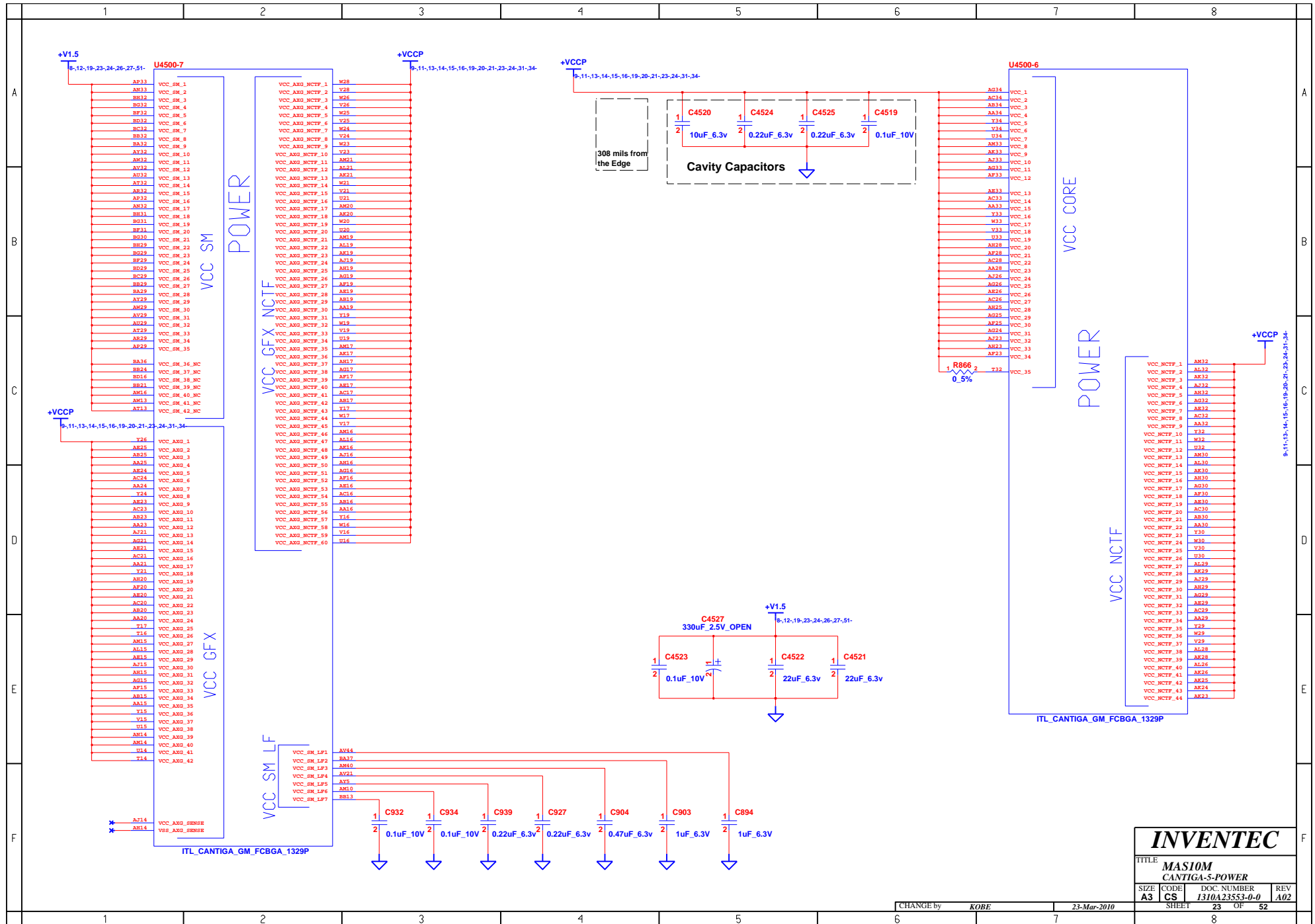
CHANGE by **KOBE** 23-Mar-2010

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INVENTEC

TITLE MAS10M CANTIGA-4DDR2			
SIZE A3	CODE CS	DOC. NUMBER I310A23553-0-0	REV A02
CHANGE by KOB		23-Mar-2010	
SHEET 22		OF 52	



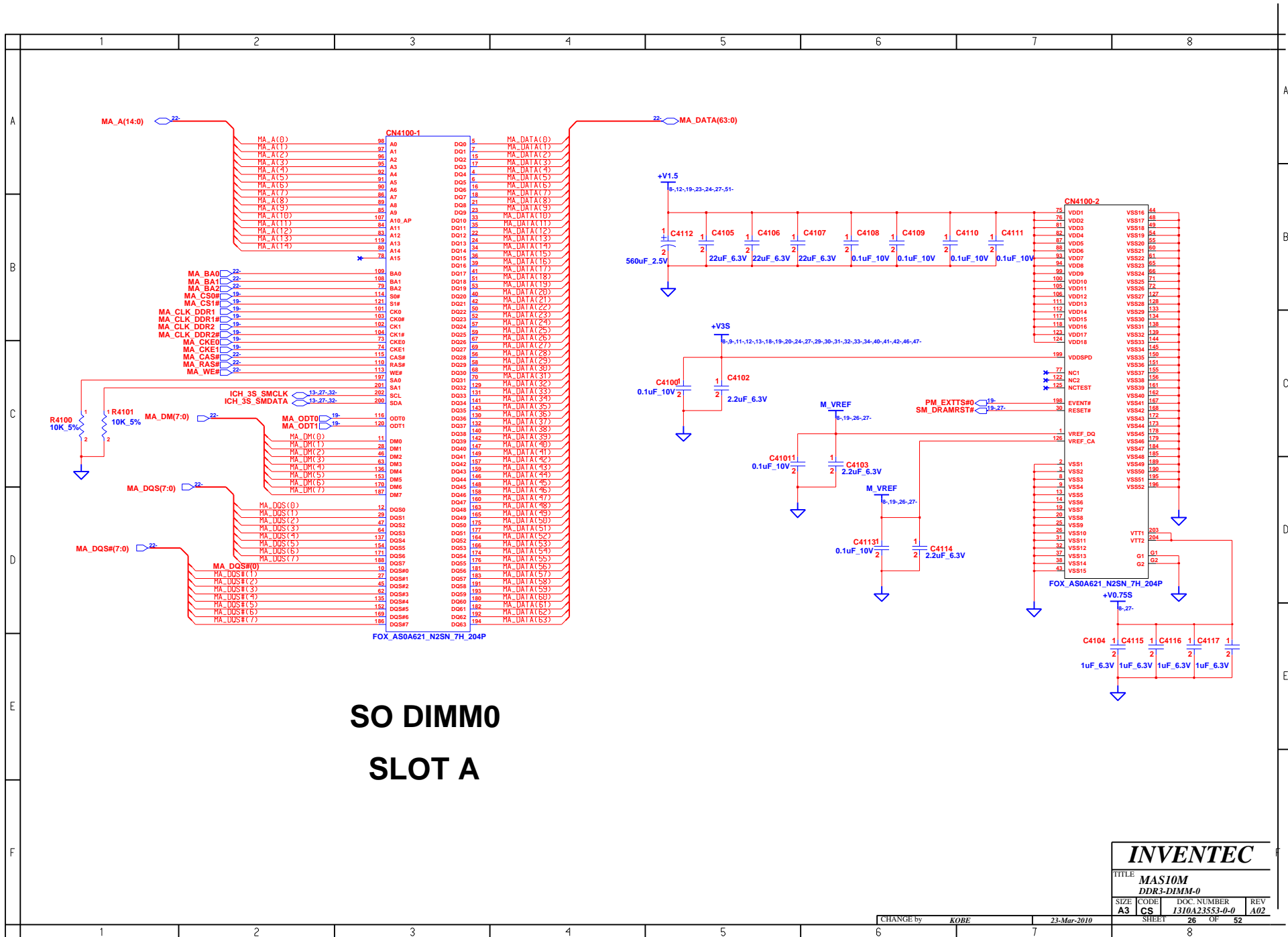
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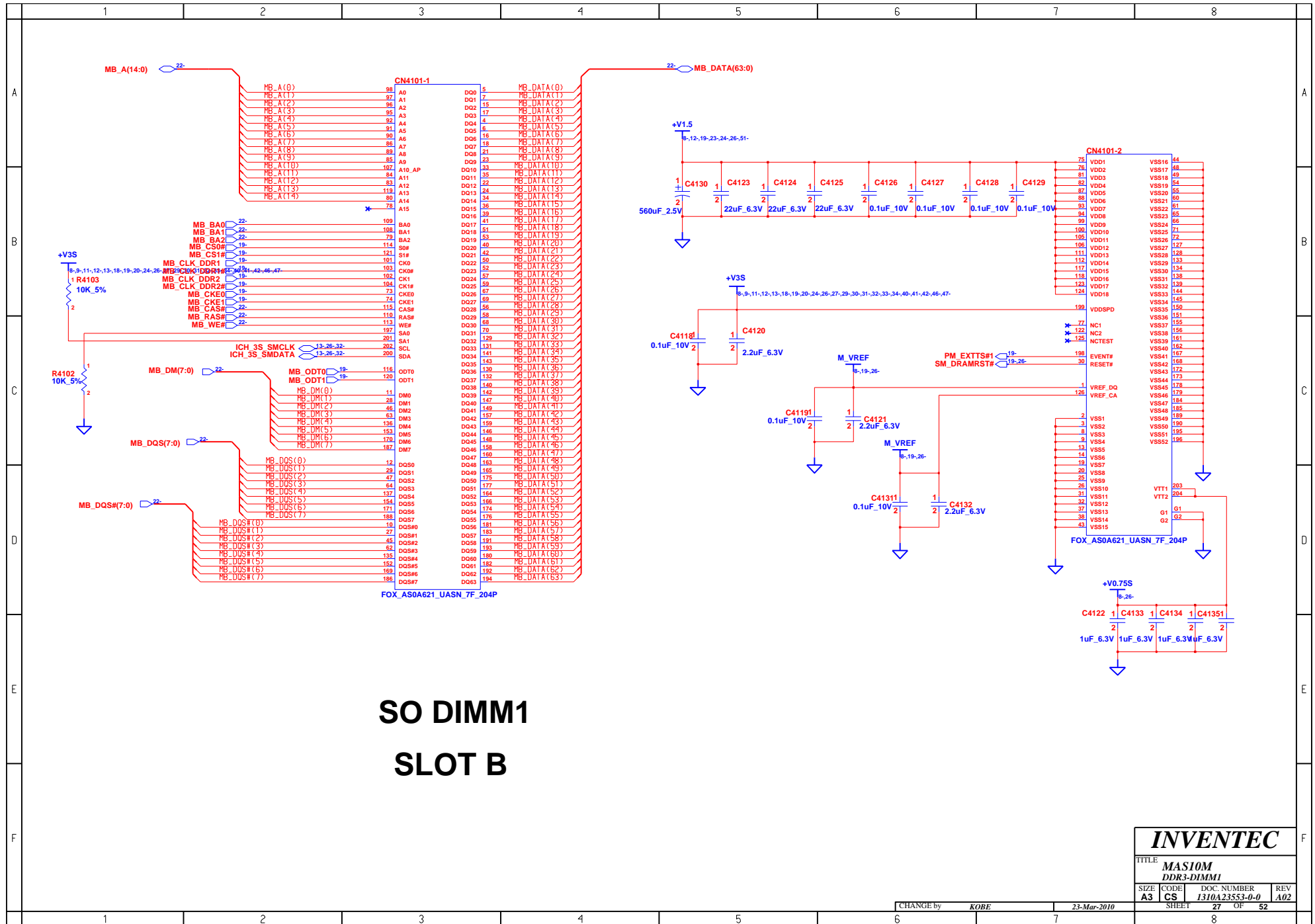
TITLE
MAS10M
CANTIGA-5-POWER

SIZE A3	CODE CS	DOC. NUMBER 1310A23553-0-0	REV A02
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CHANGE by KOBE 23-Mar-2010

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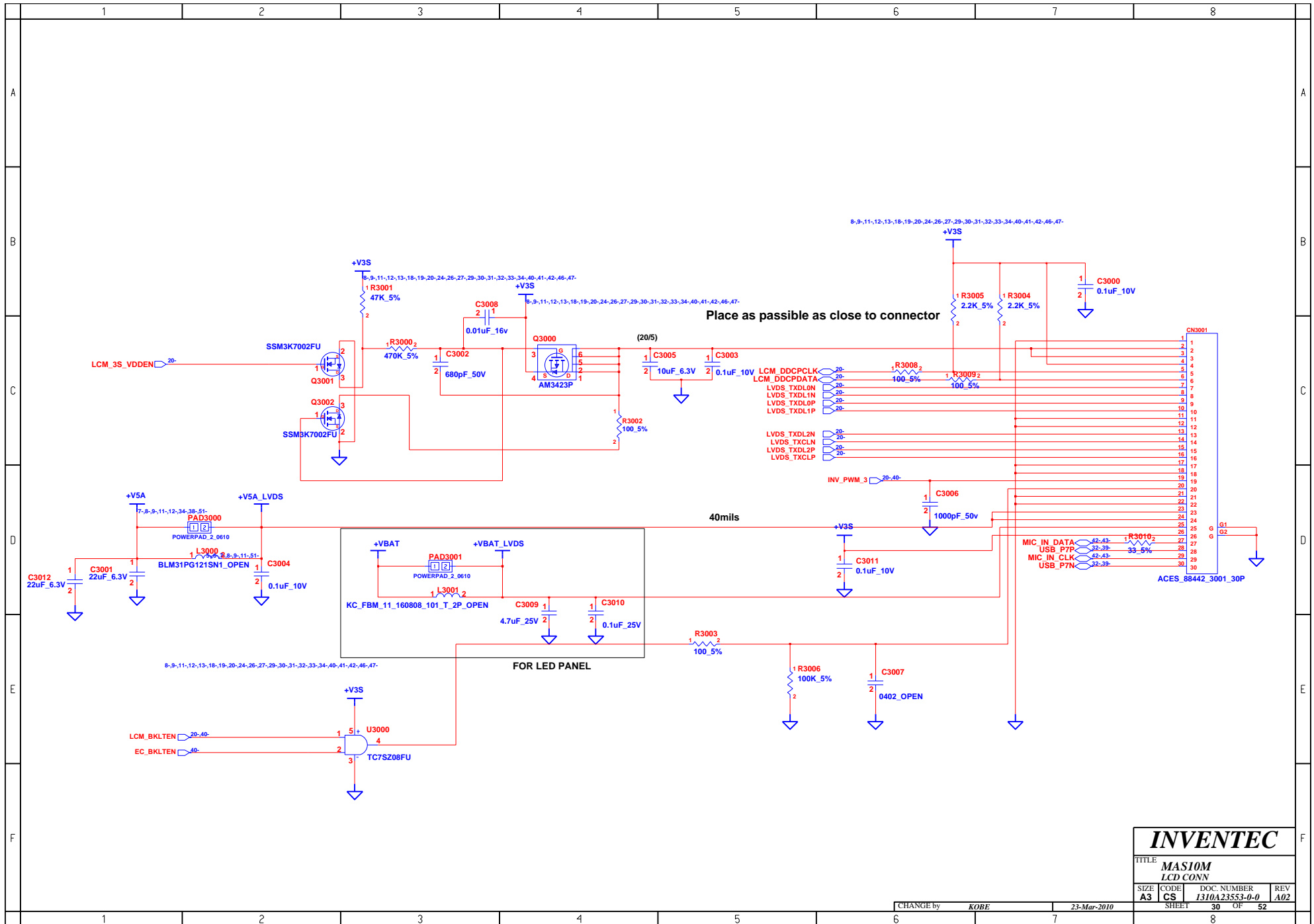


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B									B
C									C
D									D
E									E
F									F
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INVENTEC

TITLE			
MAS10M			
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SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02
SHEET		28	OF 52

CHANGE by KOBE 27-Sep-2003



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

U4501-5

AA26 VSS001

AA27 VSS002

AA3 VSS003

AA4 VSS004

AB1 VSS005

AA23 VSS006

AB26 VSS007

AB29 VSS008

AB4 VSS009

AB5 VSS010

AC17 VSS011

AC26 VSS012

AC27 VSS013

AC3 VSS014

AD1 VSS015

AD10 VSS016

AD12 VSS017

AD13 VSS018

AD14 VSS019

AD17 VSS020

AD18 VSS021

AD21 VSS022

AD25 VSS023

AD29 VSS024

AD4 VSS025

AD5 VSS026

AD6 VSS027

AD7 VSS028

AD9 VSS029

AE13 VSS030

AE13 VSS031

AE14 VSS032

AE16 VSS033

AE17 VSS034

AE3 VSS035

AE20 VSS036

AE24 VSS037

AE3 VSS038

AE4 VSS039

AE5 VSS040

AE9 VSS041

AF13 VSS042

AF16 VSS043

AF18 VSS044

AF24 VSS045

AH26 VSS046

AF28 VSS047

AF27 VSS048

AF3 VSS049

AF7 VSS050

AF9 VSS051

AG13 VSS052

AG16 VSS053

AG18 VSS054

AG20 VSS055

AG23 VSS056

AG5 VSS057

AG5 VSS058

AG9 VSS059

AH12 VSS060

AH14 VSS061

AH17 VSS062

AH19 VSS063

AH2 VSS064

AH22 VSS065

AH23 VSS066

AH28 VSS067

AH5 VSS068

AH5 VSS069

AJ12 VSS070

AJ14 VSS071

AJ17 VSS072

AJ8 VSS073

B11 VSS074

B14 VSS075

B17 VSS076

B3 VSS077

B20 VSS078

B23 VSS079

B5 VSS080

B5 VSS081

C26 VSS082

C27 VSS083

E11 VSS084

E14 VSS085

E18 VSS086

E2 VSS087

E21 VSS088

E24 VSS089

E5 VSS090

E8 VSS091

F16 VSS092

F28 VSS093

F29 VSS094

G14 VSS095

G14 VSS096

G19 VSS097

G21 VSS098

G24 VSS099

G25 VSS100

G27 VSS101

H3 VSS102

H28 VSS103

H28 VSS104

H28 VSS105

H28 VSS106

H5 VSS107

J23 VSS108

J26 VSS109

J27 VSS110

AC22 VSS111

K28 VSS112

K29 VSS113

L13 VSS114

L15 VSS115

L2 VSS116

L26 VSS117

L27 VSS118

L5 VSS119

L7 VSS120

M12 VSS121

M13 VSS122

M14 VSS123

M15 VSS124

M16 VSS125

M17 VSS126

M23 VSS127

M28 VSS128

M29 VSS129

N11 VSS130

N12 VSS131

N13 VSS132

N14 VSS133

N15 VSS134

N16 VSS135

N17 VSS136

N18 VSS137

N26 VSS138

N27 VSS139

P12 VSS140

P13 VSS141

P14 VSS142

P15 VSS143

P16 VSS144

P17 VSS145

P2 VSS146

P23 VSS147

P28 VSS148

P29 VSS149

P4 VSS150

P7 VSS151

R11 VSS152

R12 VSS153

R13 VSS154

R14 VSS155

R15 VSS156

R16 VSS157

R17 VSS158

R18 VSS159

R28 VSS160

T12 VSS161

T13 VSS162

T14 VSS163

T15 VSS164

T16 VSS165

T17 VSS166

T23 VSS167

B26 VSS168

U12 VSS169

U13 VSS170

U14 VSS171

U15 VSS172

U16 VSS173

U17 VSS174

AD23 VSS175

U26 VSS176

U27 VSS177

U3 VSS178

V1 VSS179

V13 VSS180

V15 VSS181

V23 VSS182

V28 VSS183

V29 VSS184

V4 VSS185

V5 VSS186

W26 VSS187

W27 VSS188

W3 VSS189

Y1 VSS190

Y28 VSS191

Y29 VSS192

Y4 VSS193

Y5 VSS194

AG28 VSS195

AH6 VSS196

AF2 VSS197

B25 VSS198

VSS_NCTF1 A1

VSS_NCTF2 A2

VSS_NCTF3 A28

VSS_NCTF4 A29

VSS_NCTF5 AH1

VSS_NCTF6 AH28

VSS_NCTF7 AJ1

VSS_NCTF8 AJ2

VSS_NCTF9 AJ28

VSS_NCTF10 B1

VSS_NCTF11 A29

VSS_NCTF12 B29

ITL ICH9M_TSB_FCBGA_676P

CHANGE by

KOBE

23-Mar-2010

SIZE

A3

CODE

CS

DOC. NUMBER

I310A23553-0-0

REV

A02

SHEET

35

OF

52

8

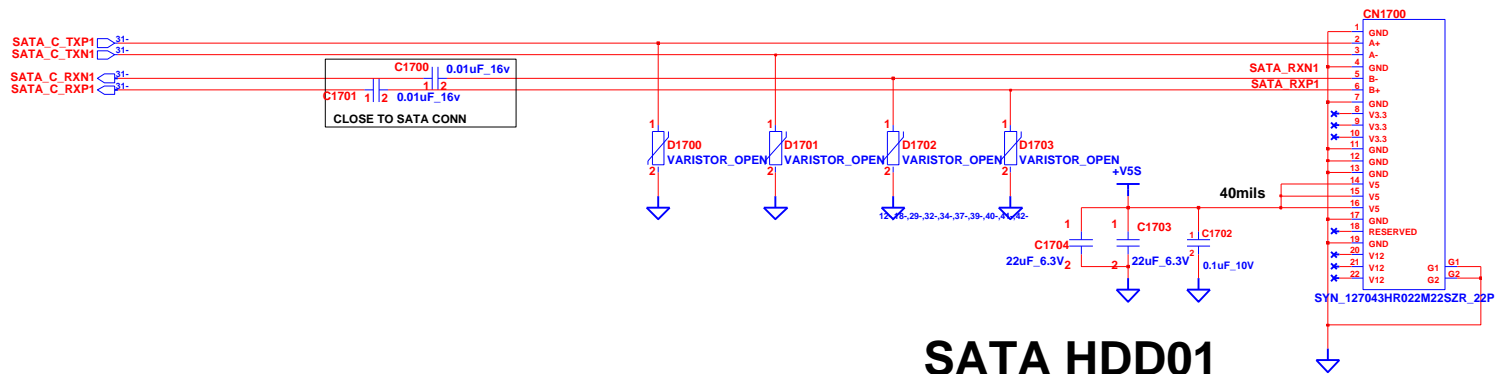
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TITLE
MAS10M
ICH9M-5

SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02

SHEET 35 OF 52

8



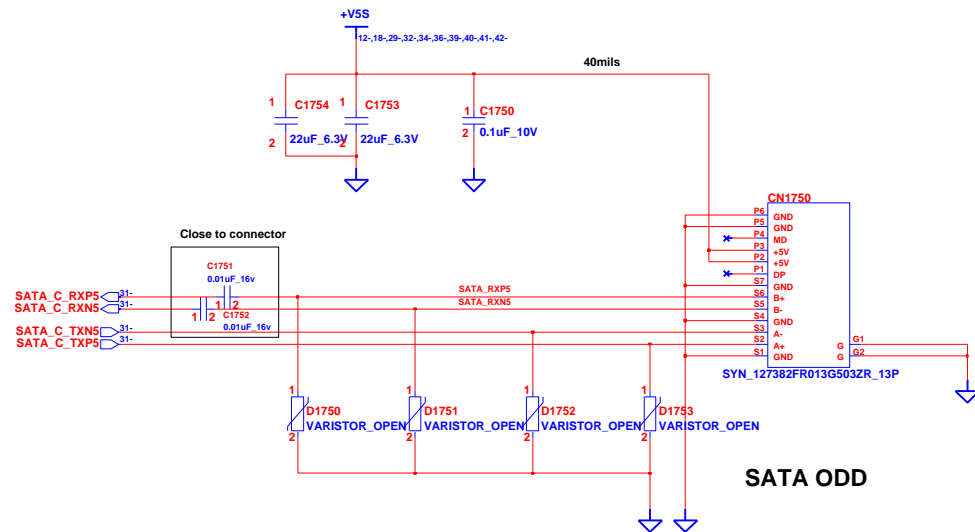
SATA HDD01

INVENTEC

TITLE			
MAS10M HDD CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02

CHANGE by	KOBE	23-Mar-2010
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SHEET	36	OF	52
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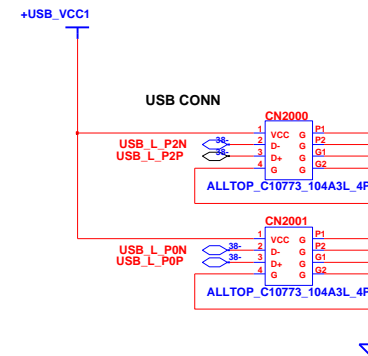
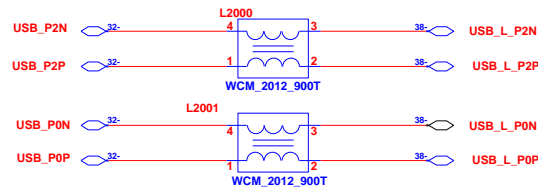
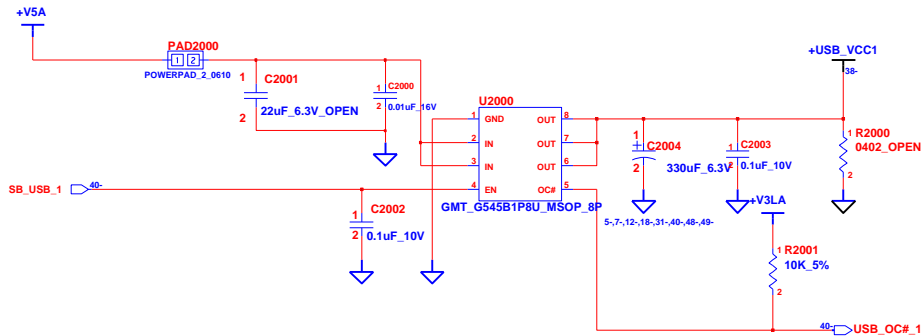
INVENTEC

TITLE			
MAS10M			
SATA ODD			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23553-0-0	A02

CHANGE by KOBE 23-Mar-2010

SHEET 37 OF 52

7,8,9,11,12,30,34,51

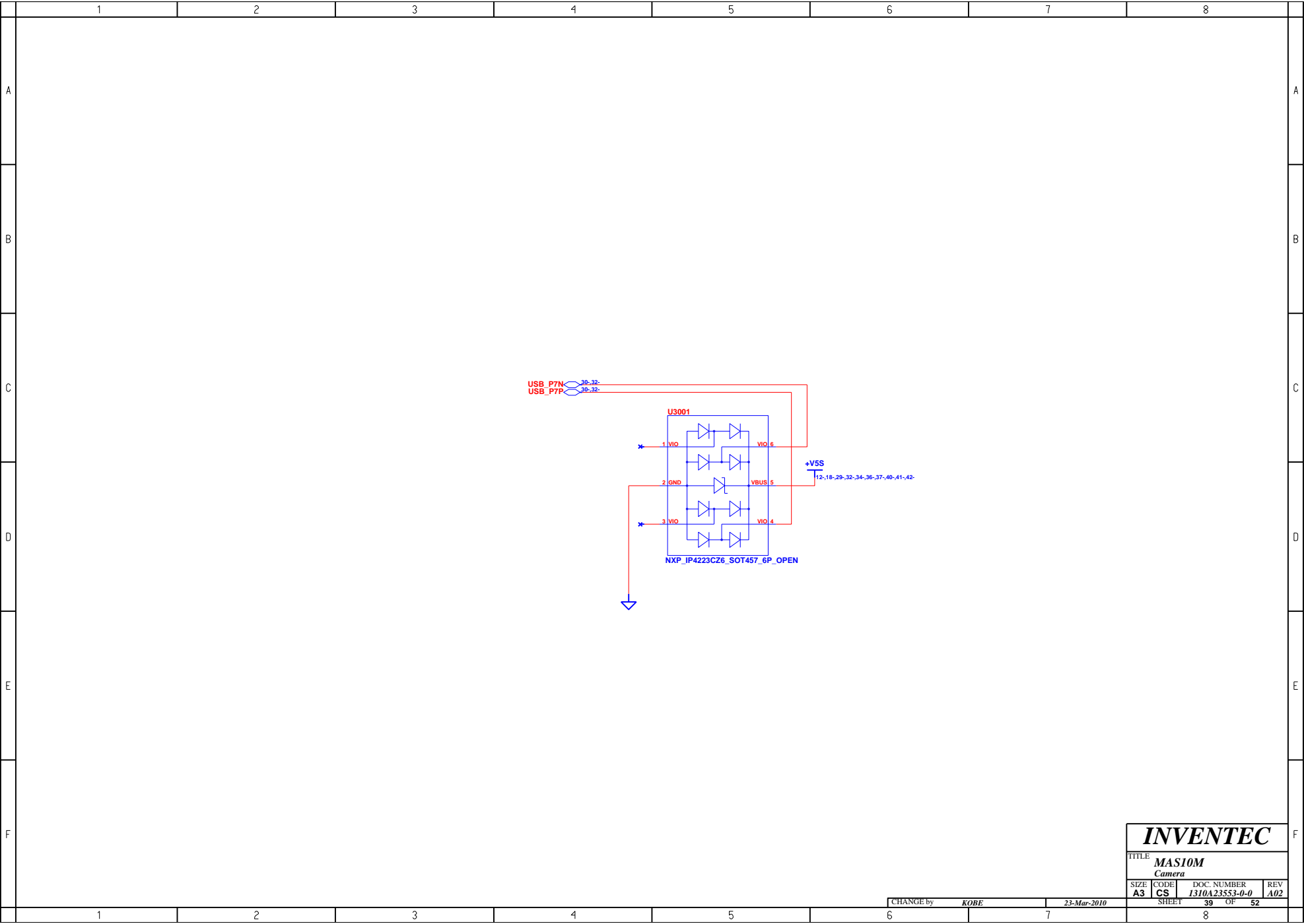


INVENTEC

TITLE			
MAS10M			
USB CONN/USB(DB)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02

CHANGE by KOBE 23-Mar-2010

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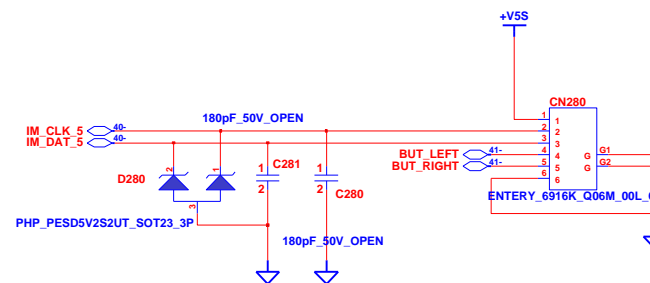
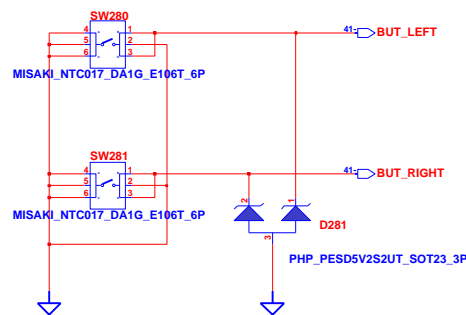
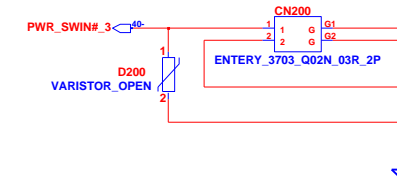
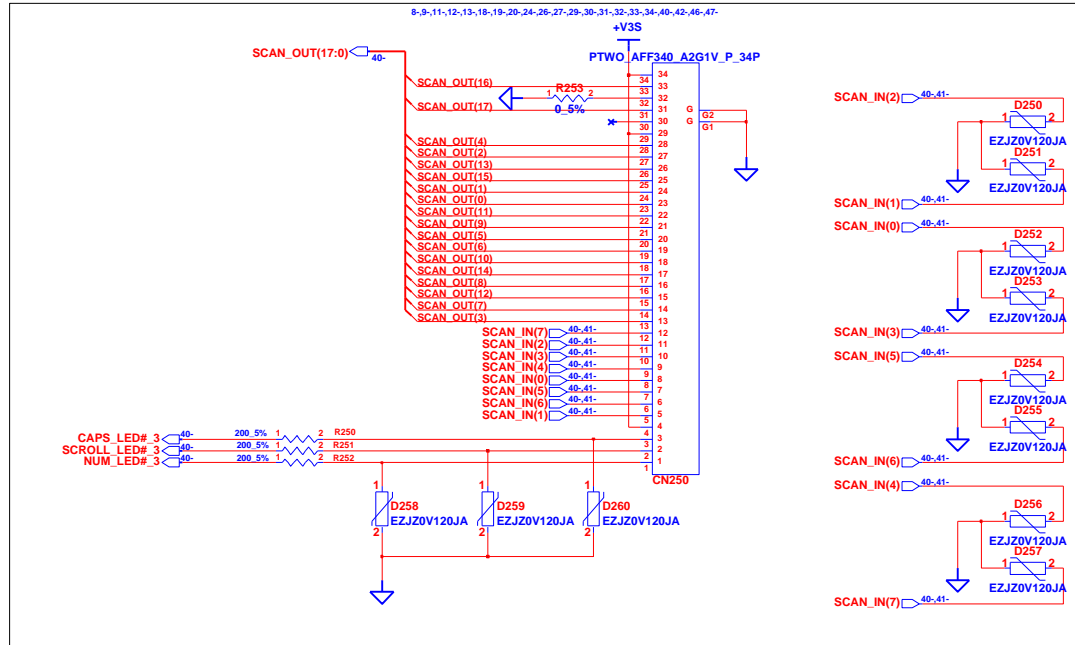
INVENTEC

TITLE
MAS10M
Camera

SIZE A3	CODE CS	DOC. NUMBER I310A23553-0-0	REV A02
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CHANGE by **KOBE** 23-Mar-2010

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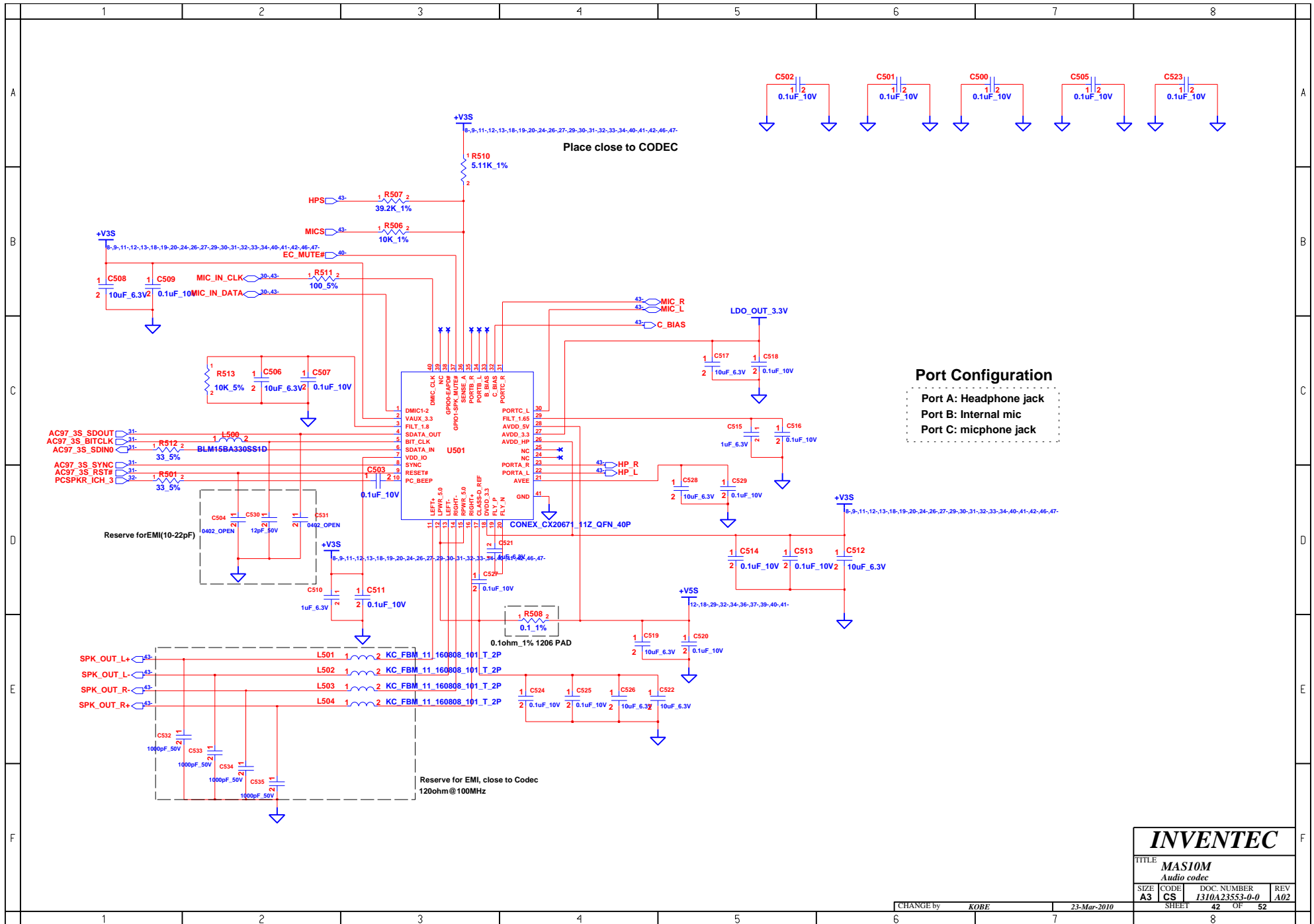
INVENTEC

TITLE **MAS10M**
K/B & TP/B CONN

SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02

CHANGE by **KOBE** 23-Mar-2010

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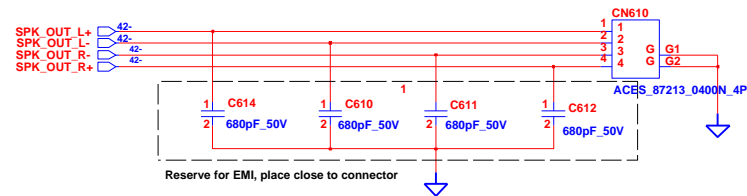


INVENTEC

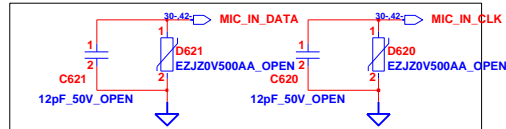
TITLE MAS10M Audio codec			
SIZE A3	CODE CS	DOC. NUMBER I310A23553-0-0	REV A02
SHEET 42		OF 52	

CHANGE by **KOBE** 23-Mar-2010

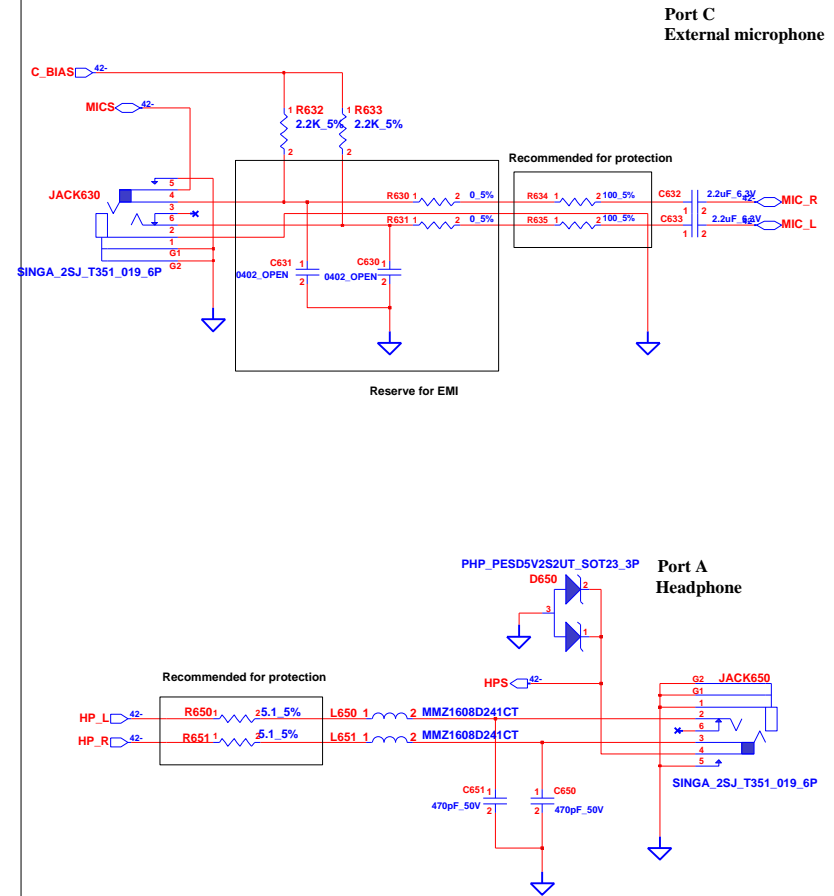
INTERNAL SPEAKERS



INTERNAL MIC



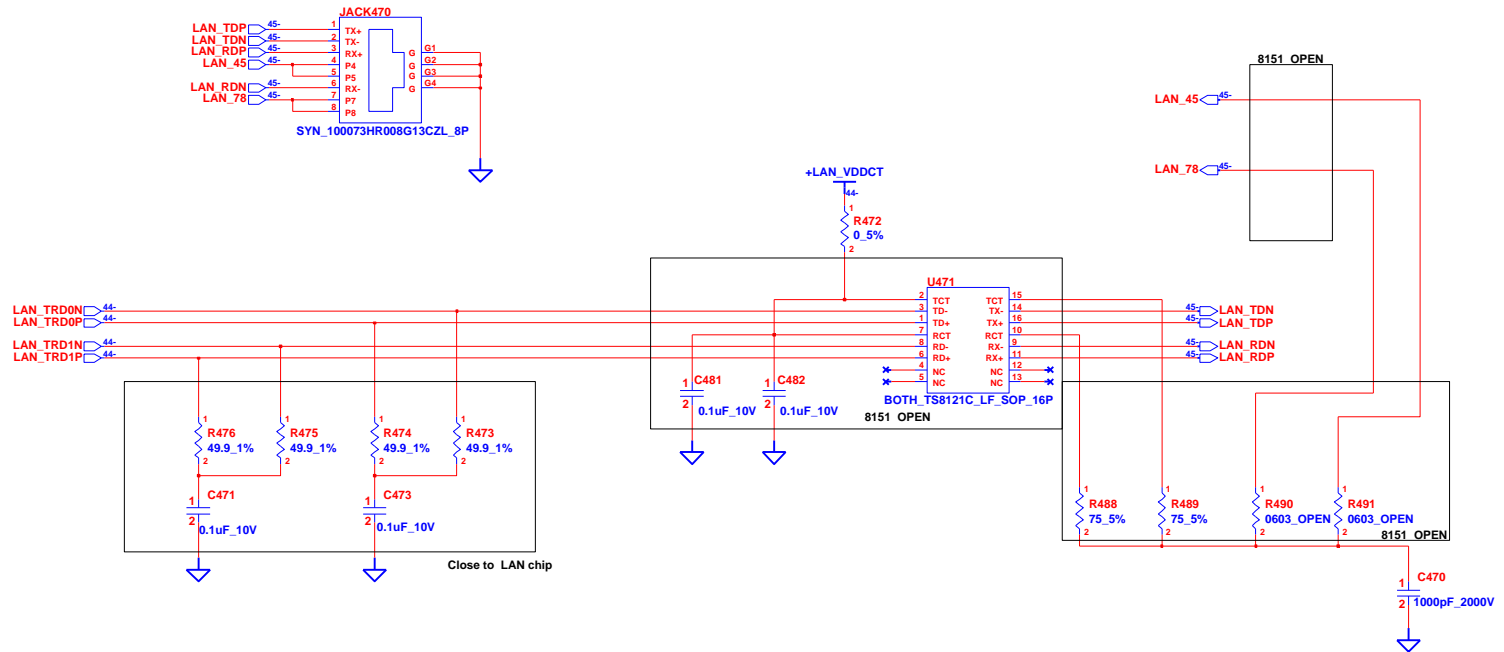
AUDIO JACKS



INVENTEC

TITLE			
MAS10M			
Audio AMP&MIC&Speaker			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23553-0-0	A02
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CHANGE by KOBE 23-Mar-2010



INVENTEC

TITLE			
MAS10M			
Transformer&RJ45			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23553-0-0	A02

CHANGE by KOBE 23-Mar-2010

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The diagram illustrates the PCB layout for a USB Card Reader, showing two views: a top view (left) and a bottom view (right).

Top View (Left):

- USB Connector:** USB_P8N and USB_P8P are connected to the USB controller (U800).
- USB Controller (U800):** A USB controller chip with pins for SD data lines (SD_D0-SD_D7), SD command lines (SD_CMD, SD_CD#, SD_WP_MS_CLK), and power/ground connections.
- Passive Components:** Various capacitors (C801-C807) and inductors (L800, L803-L804) are used for decoupling and signal conditioning.
- Power and Ground:** +V3S and +CARD_3V3 are connected to the appropriate pins on the controller and other components.

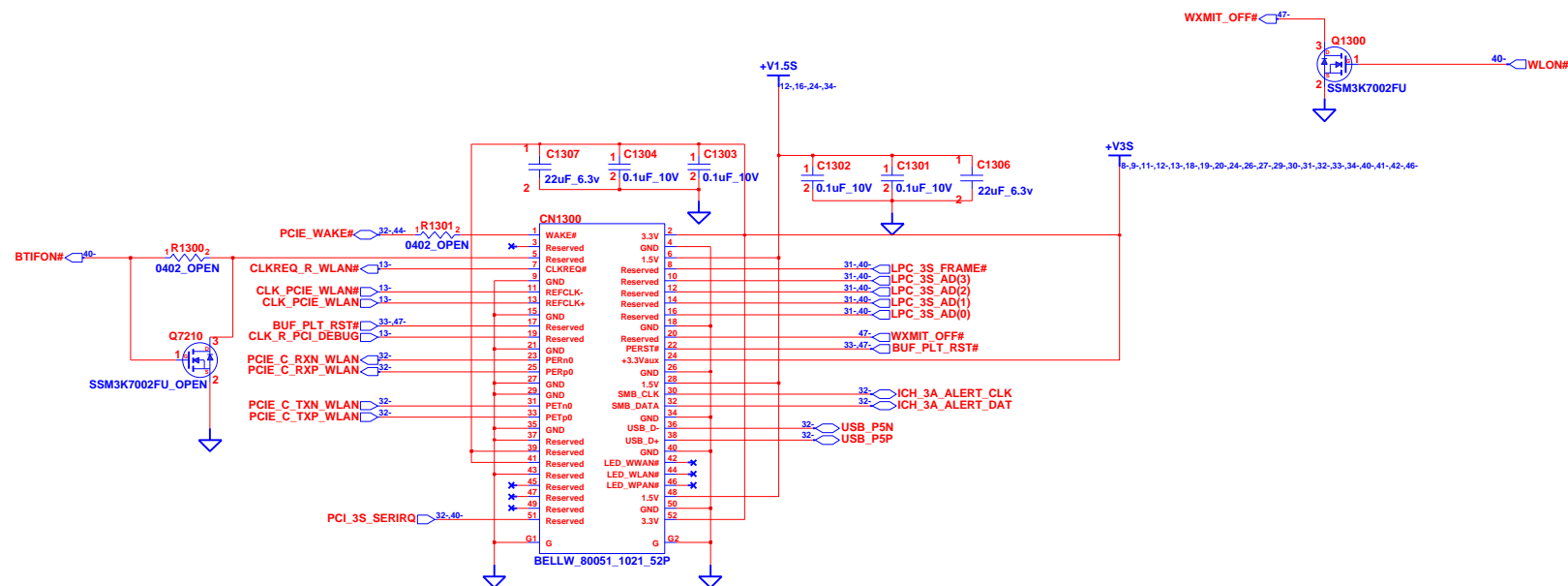
Bottom View (Right):

- Card Connector (CN800):** A card connector chip with pins for SD data lines (SD_D0-SD_D7), SD command lines (SD_CMD, SD_CD#, SD_WP_MS_CLK), and power/ground connections.
- Passive Components:** Various capacitors (C801-C807) and inductors (L800, L803-L804) are used for decoupling and signal conditioning.
- Power and Ground:** +V3S and +CARD_3V3 are connected to the appropriate pins on the controller and other components.

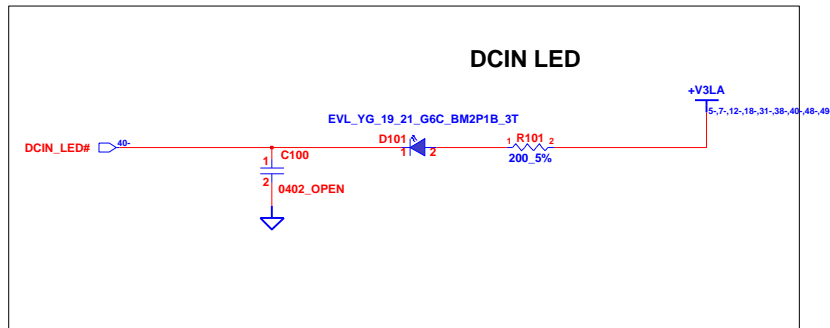
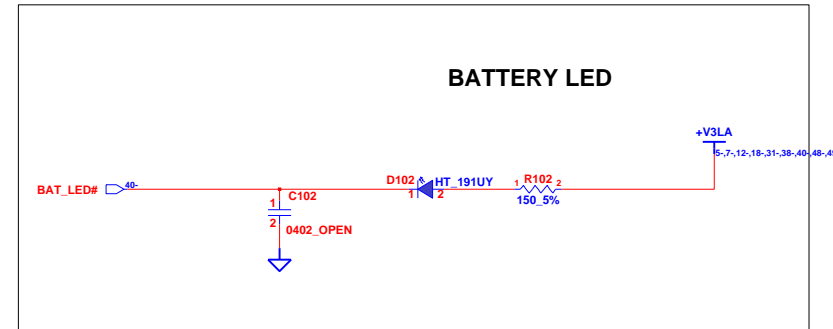
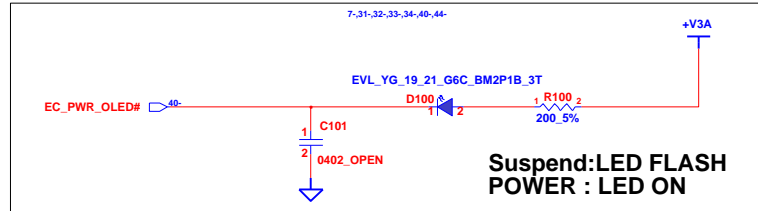
The layout includes a grid with columns 1-8 and rows A-F.

TITLE			
MAS10M <i>USB Card Reader</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23553-0-0	A02
SHEET		46	OF 52

Wireless & Debug card



INVENTEC			
TITLE MAS10M <i>Wireless & debug card</i>			
SIZE A3	CODE CS	DOC. NUMBER 1310A23553-0-0	REV A02
SHEET 47		OF 52	



INVENTEC

TITLE			
MAS10M			
LED & Hotkey CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02
SHEET		48	OF 52

CHANGE by KOBE 23-Mar-2010

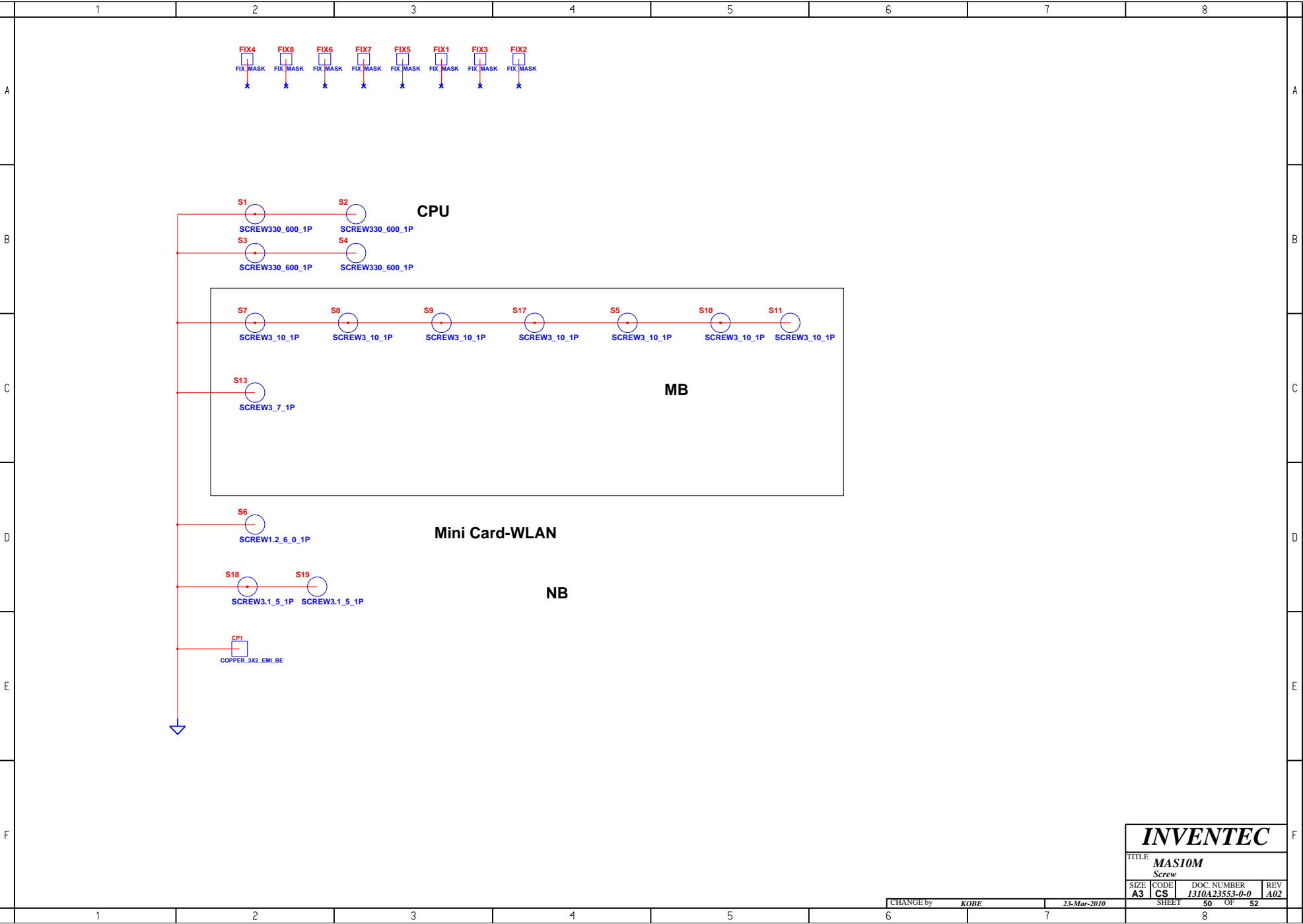
	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D	<div><p>HALL SENSOR</p><p>U60 MAG_MH248BESO_SOT23_3P VDD GND OUT +V3LA R60 100K_5% C60 1000pF_50v D60 VARISTOR_OPEN LID_SW#_3 40-</p></div>								D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC

TITLE			
MAS10M			
Kill Switch & Hall Sensor			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02

CHANGE by KOBE 23-Mar-2010

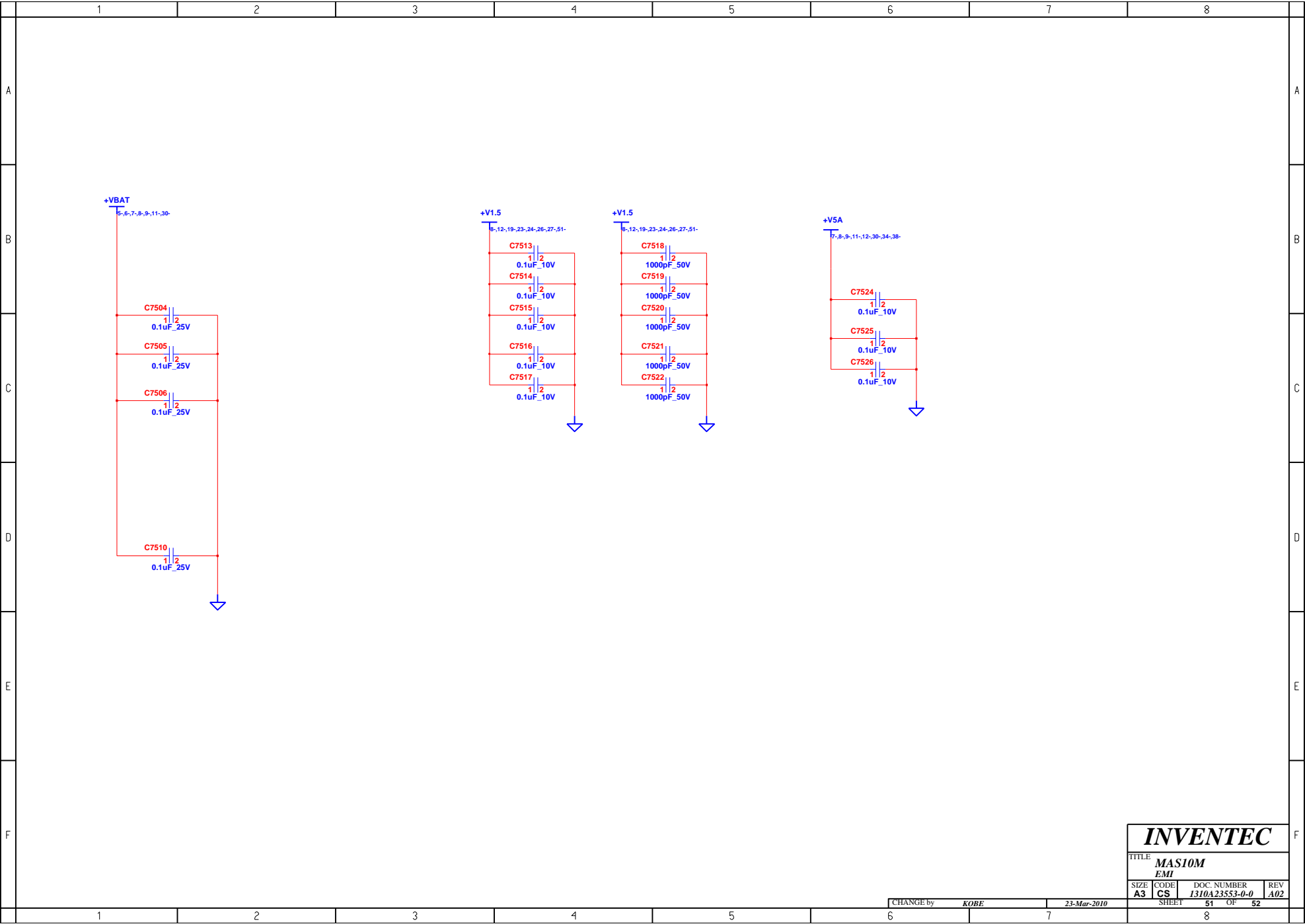
SHEET 49 OF 52



INVENTEC

TITLE			
MAS10M			
Screw			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A23553-0-0	A02
SHEET		50	OF 52

CHANGE by KOBE 23-Mar-2010



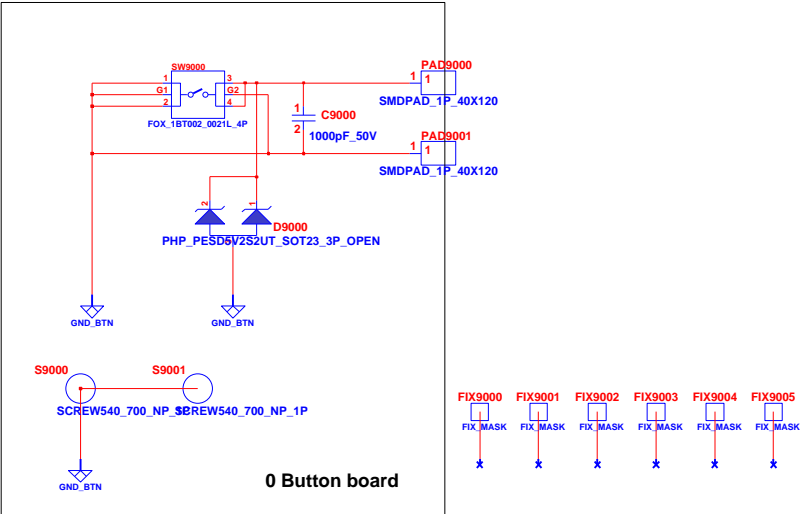
INVENTEC

TITLE **MAS10M**
EMI

SIZE A3	CODE CS	DOC. NUMBER I310A23553-0-0	REV A02
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CHANGE by **KOBE** 23-Mar-2010

SHEET 51 OF 52



INVENTEC

TITLE
MAS10M
power board

SIZE A3	CODE CS	DOC. NUMBER I310A23553-0-0	REV A02
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CHANGE by **KOBE** 23-Mar-2010

SHEET 52 OF 52