

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

MANAUS 10M

PreMP Build(A02)

2010.03.23

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

	EE	DATE	POWER	DATE
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
FILE NAME :	MAS10M-6050A2355301-MB-A02-26-20100322			
P/N	6050A2355301			

INVENTEC			
TITLE MAS10M			
SIZE A3	CODE CS	DOC. NUMBER I310A23553-0-0	REV A02
SHEET	1	OF	52

1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---

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

MANAUS 10M

PreMP Build(A02)

2010.03.23

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

	EE	DATE	POWER	DATE
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
FILE NAME :	MAS10M-6050A2355301-MB-A02-26-20100322			
P/N	6050A2355301			

INVENTEC			
TITLE MAS10M			
SIZE A3	CODE CS	DOC. NUMBER I310A23553-0-0	REV A02
SHEET 1		OF 52	

1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---

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

MANAUS 10M

PreMP Build(A02)

2010.03.23

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

	EE	DATE	POWER	DATE
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
FILE NAME :	MAS10M-6050A2355301-MB-A02-26-20100322			
P/N	6050A2355301			

INVENTEC			
TITLE MAS10M			
SIZE A3	CODE CS	DOC. NUMBER I310A23553-0-0	REV A02
SHEET 1		OF 52	

1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---

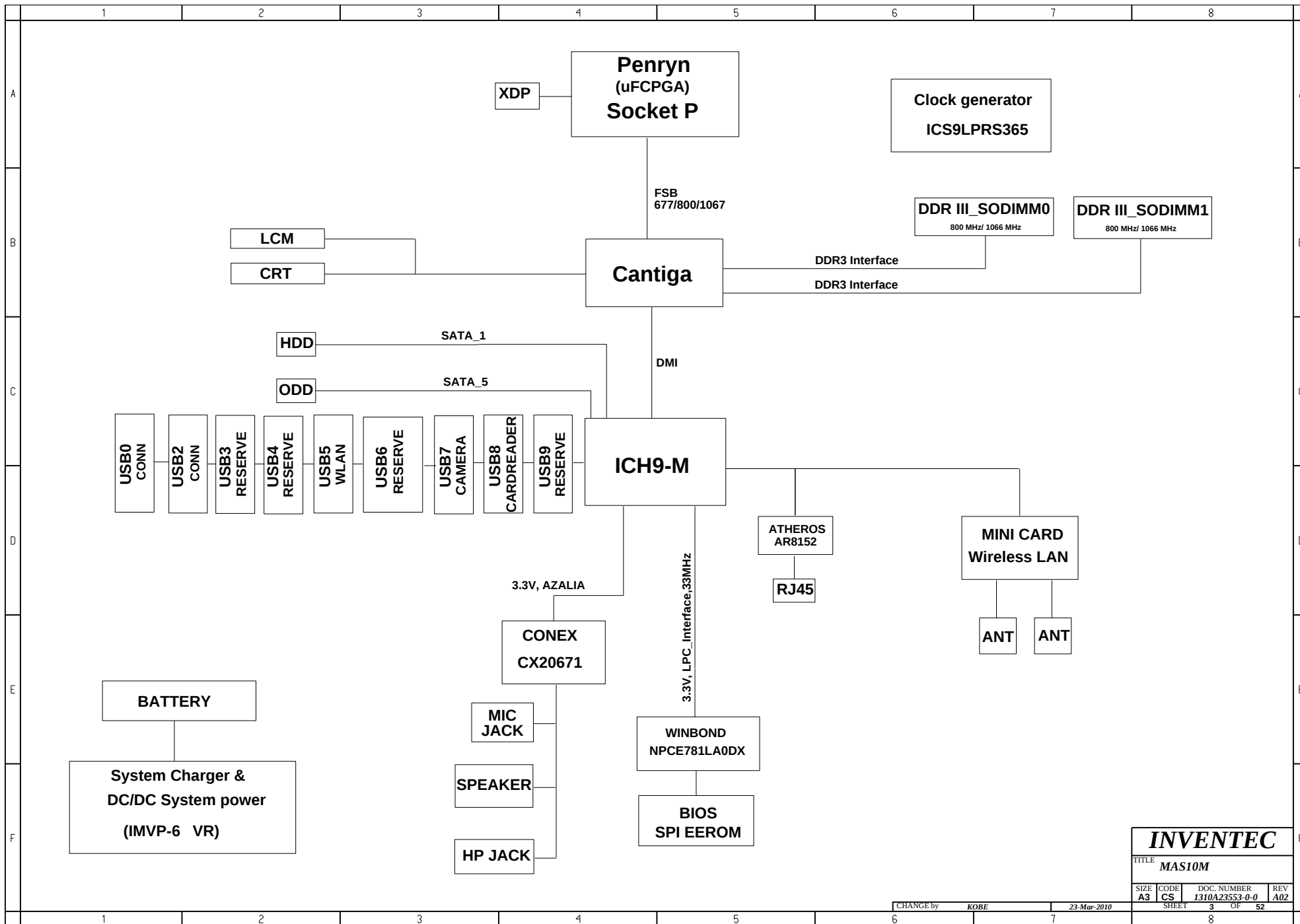
	1	2	3	4	5	6	7	8	
A	TABLE OF CONTENTS								A
B	PAGE		PAGE		PAGE				B
C	1.COVER PAGE		31.ICH9-1						C
	2.INDEX		32.ICH9-2						
	3.BLOCK DIAGRAM		33.ICH9-3						
	4.POWER SEQUENCE BLOCK		34.ICH9-4						
	5-12.SYSTEM POWER		35.ICH9-5						
	13.CLOCK GENERATOR		36.SATA HDD CONN						
	14.PENRYN-1		37.ODD CONN						
	15.PENRYN-2		38.USB CONN						
	16.PENRYN-3		39.Camera						
	17.PENRYN-4		40.KBC						
	18.FAN & THERMAL CONTROLLER		41.K/B & TP/B CONN						
D	19.CANTIGA-1		42.Audio Codec						D
	20.CANTIGA-2		43.Audio AMP/MIC/Speaker						
	21.CANTIGA-3		44.LAN CONTROLLER						
	22.CANTIGA-4		45.RJ45 & TRANSFORMER						
	23.CANTIGA-5		46.USB Card Reader						
	24.CANTIGA-6		47.WLAN /Debug						
	25.CANTIGA-7		48.LED(M/B) & HOTKEY/B CONN						
E	26.DDR3 DIMM0		49.HALL SENSOR						E
	27.DDR3 DIMM1		50.Screw						
	28.DDR DAMPING		51.EMI						
	29.CRT CONN		52. power board						
	30.LCM CONN								
F									F
CHANGE by						KOBE	23-Mar-2010		
1	2	3	4	5	6	7	8		

INVENTEC

TITLE **MAS10M**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310AZ3553-0-0	A02

SHEET	2	OF	52
-------	---	----	----



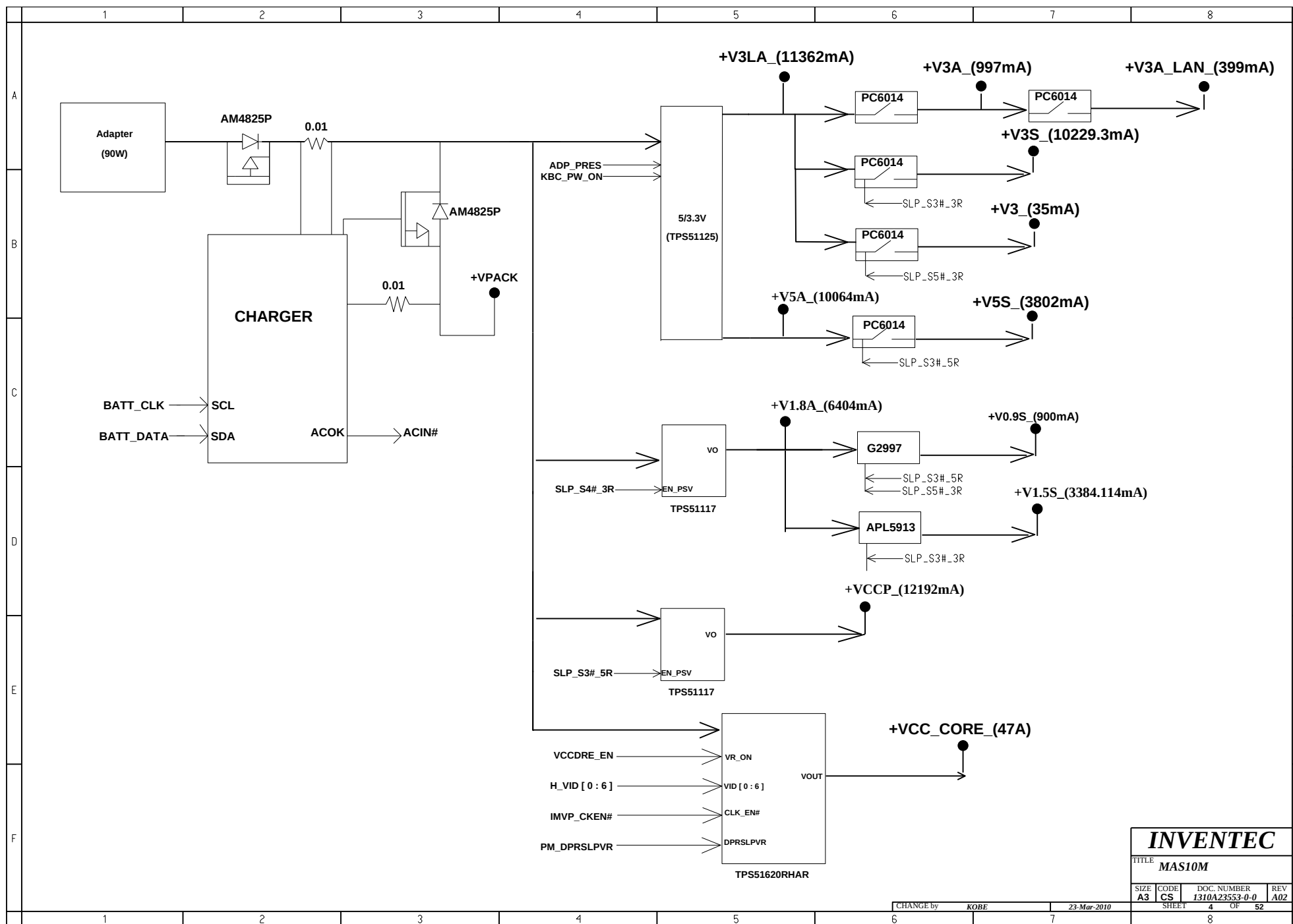
INVENTEC

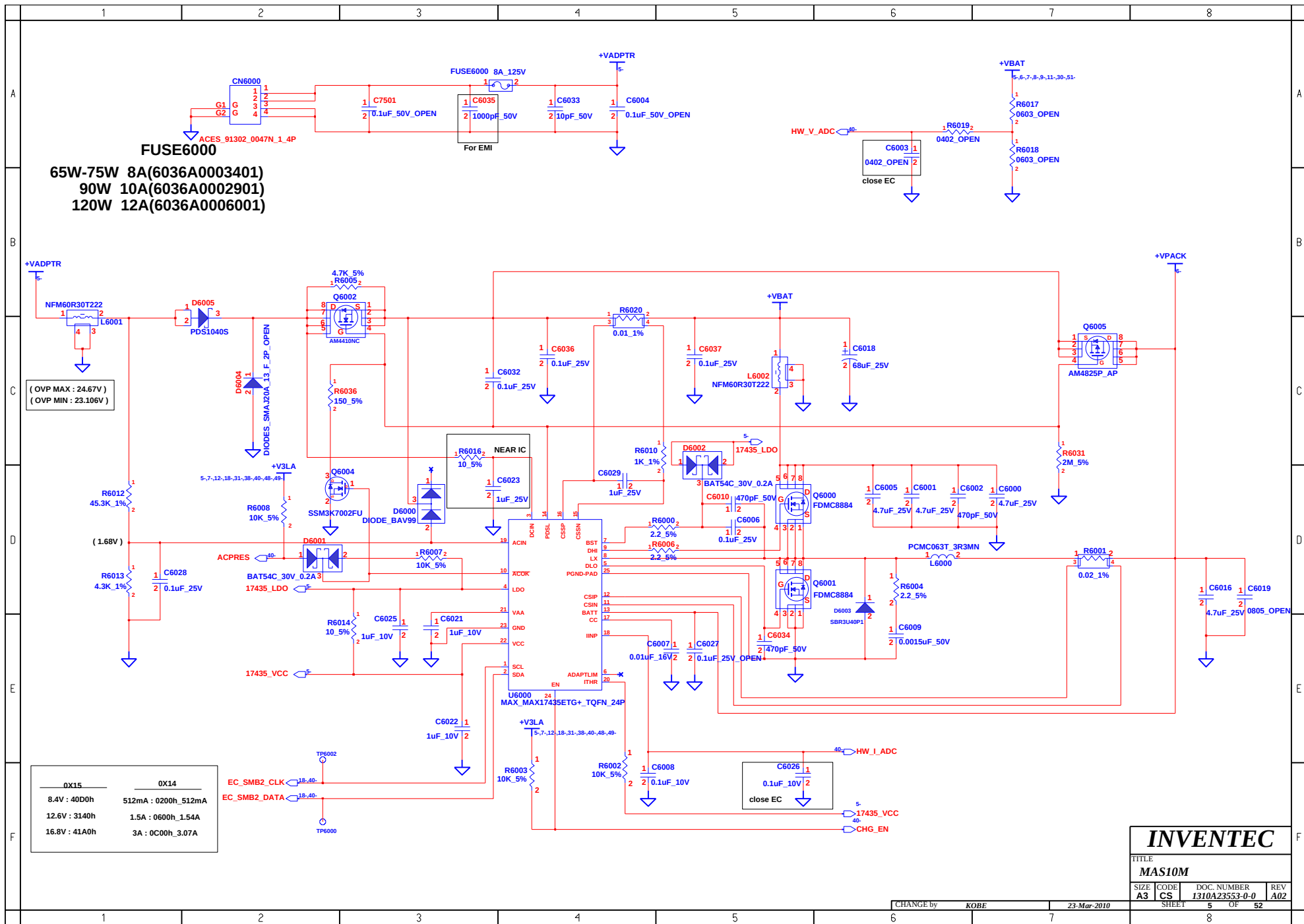
TITLE
MAS10M

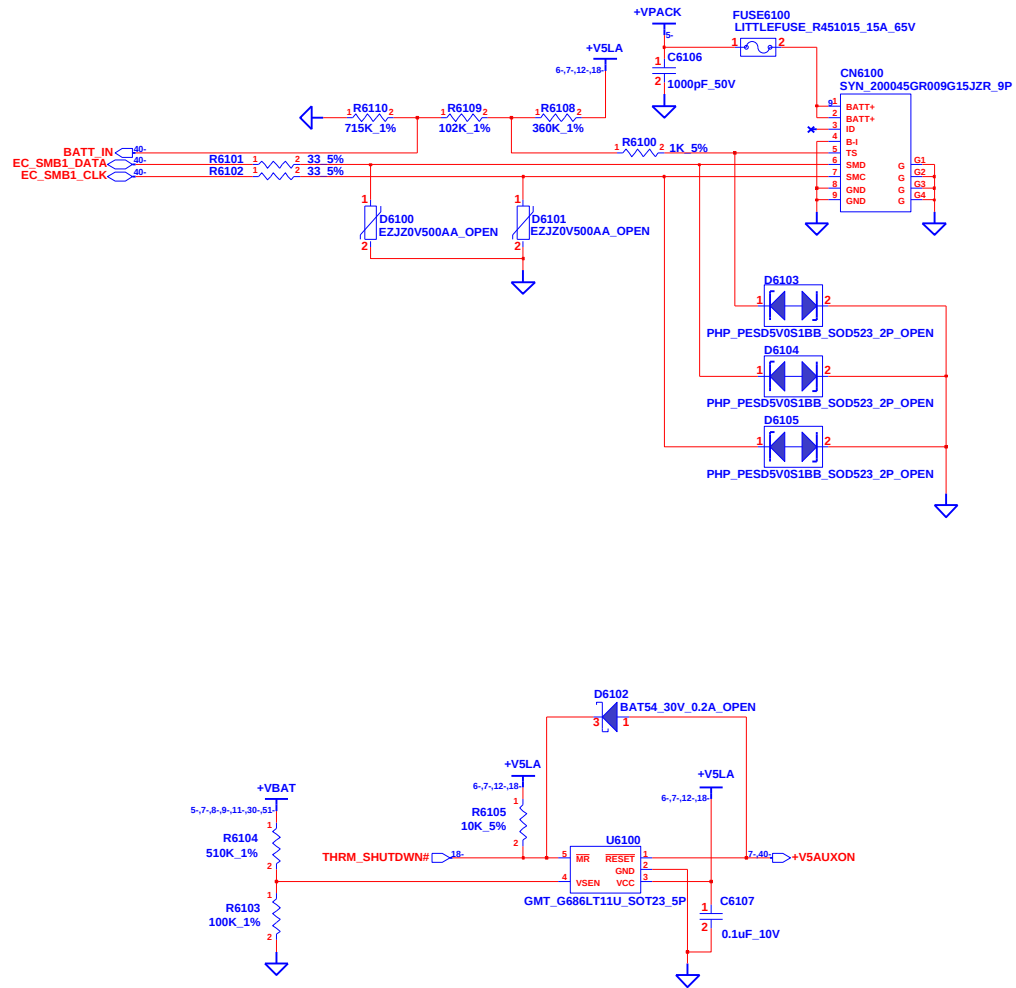
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310AZ3553-0-0	A02

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

SHEET 3 OF 52







INVENTEC

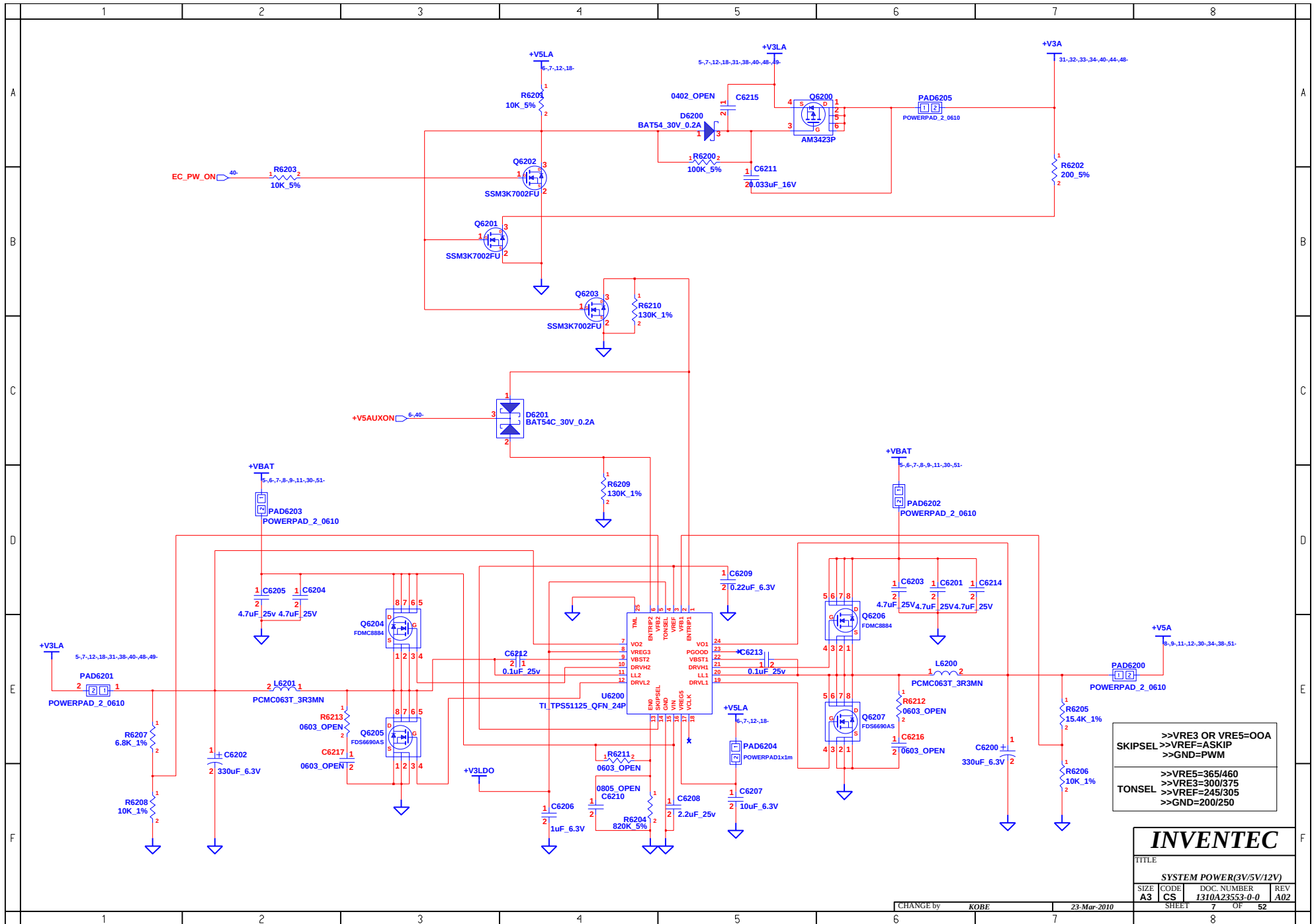
TITLE

SELECT & BATTERY CONN

SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310AZ3553-0-0	A02

CHANGE by KOBE 23-Mar-2010

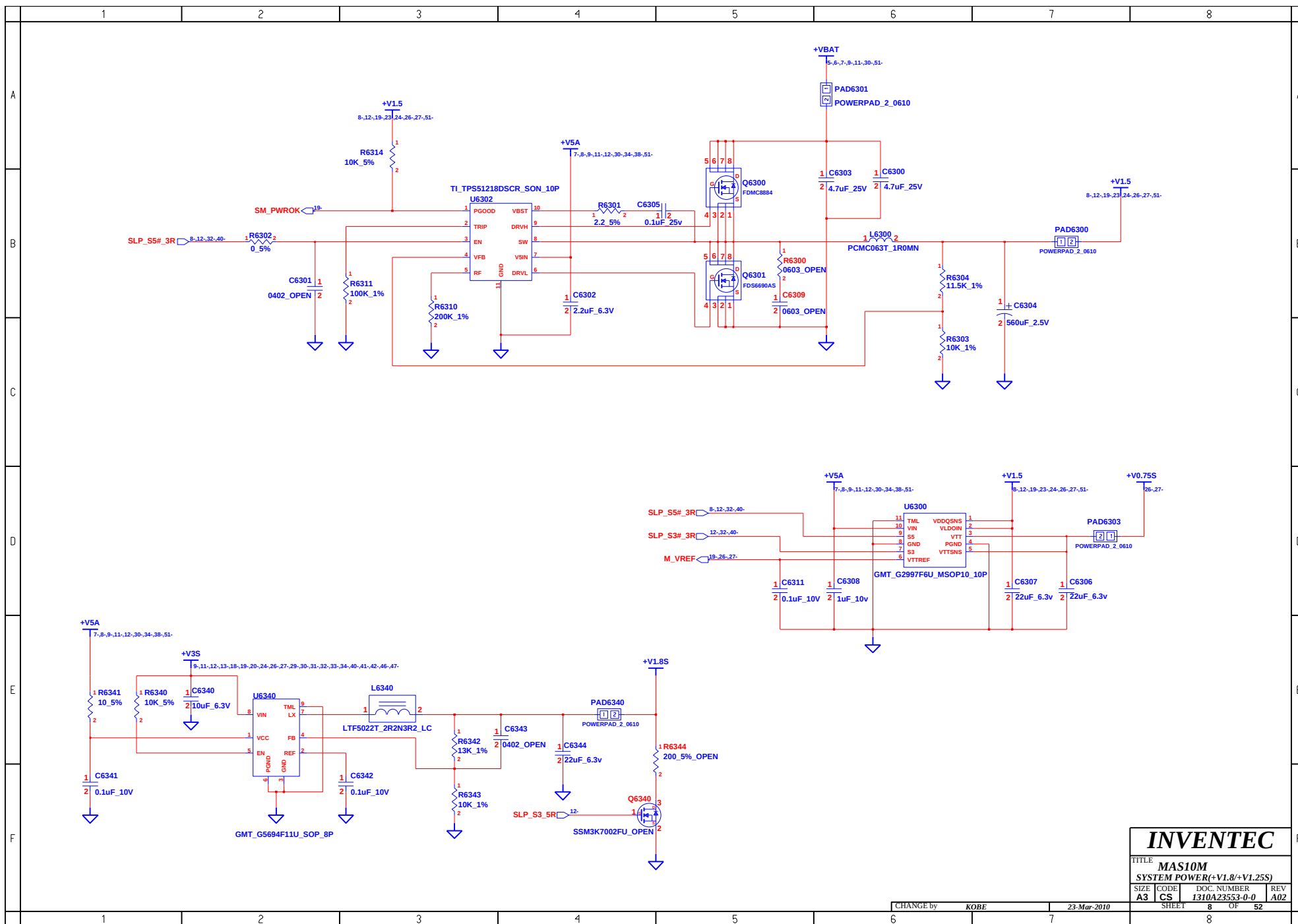
SHEET 6 OF 52

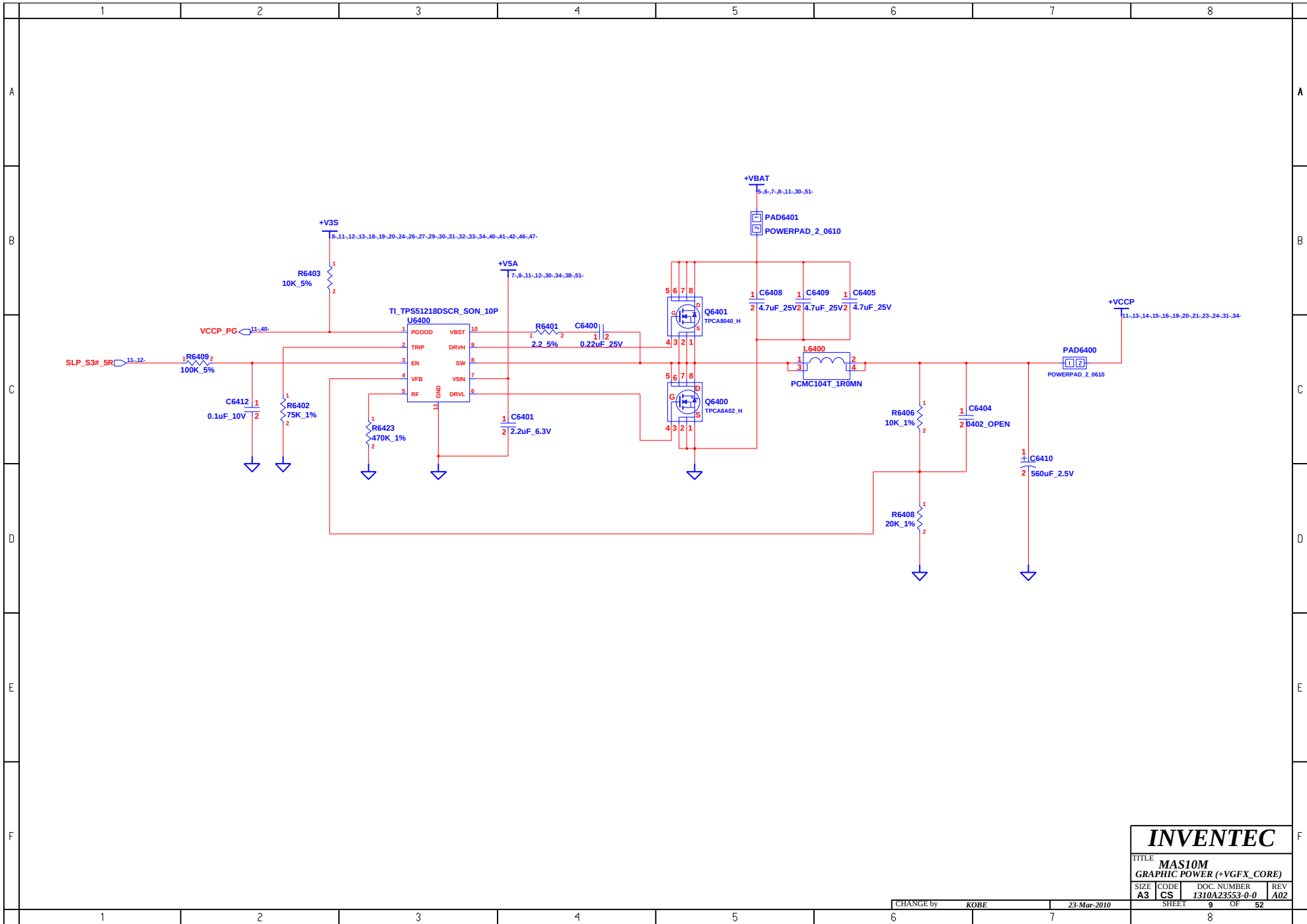


INVENTEC

TITLE			
SYSTEM POWER(3V/5V/12V)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310AZ3553-0-0	A02
SHEET		7	OF 52

CHANGE by KOBE 23-Mar-2010





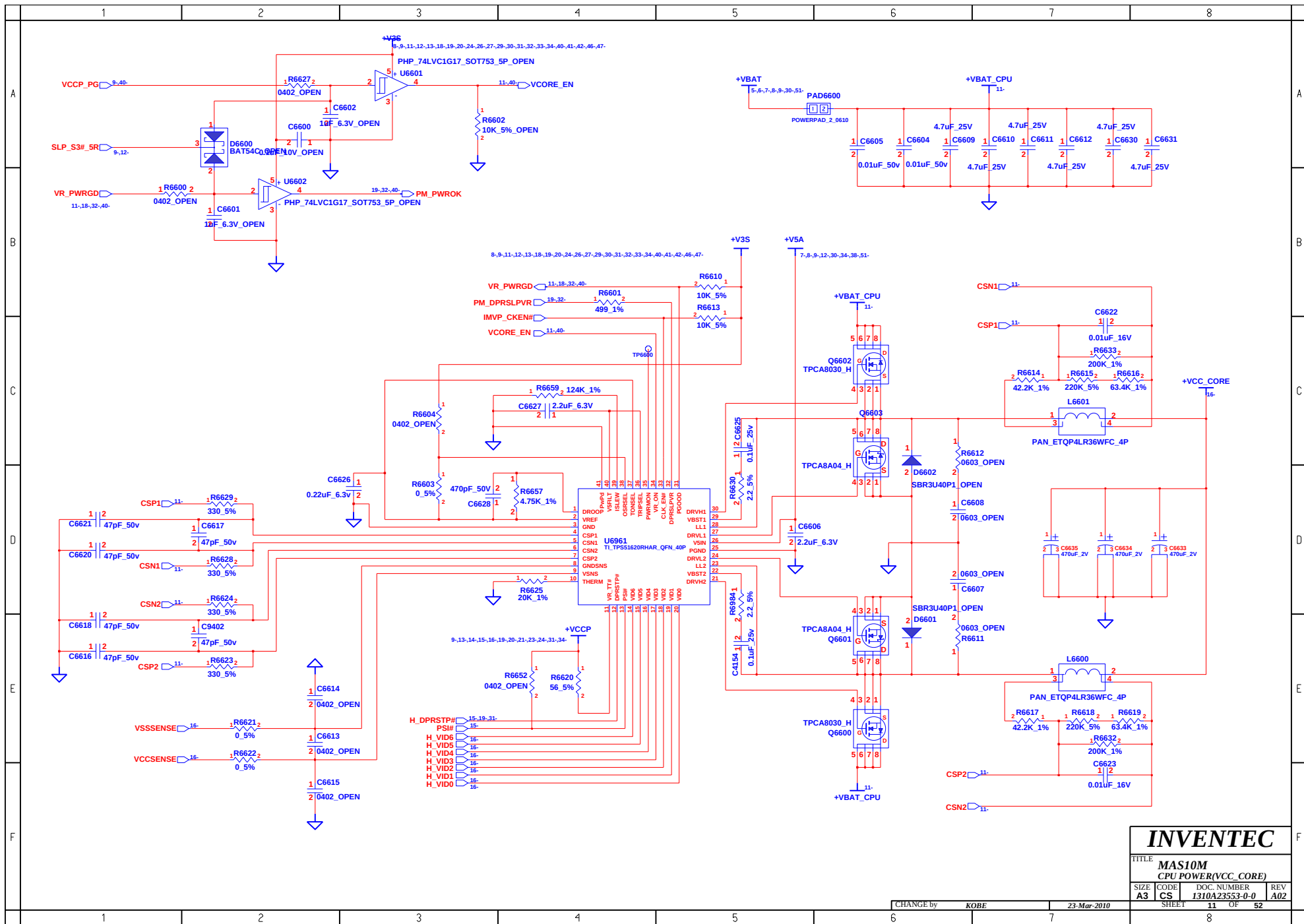
	1	2	3	4	5	6	7	8	
A	BLANK								A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC

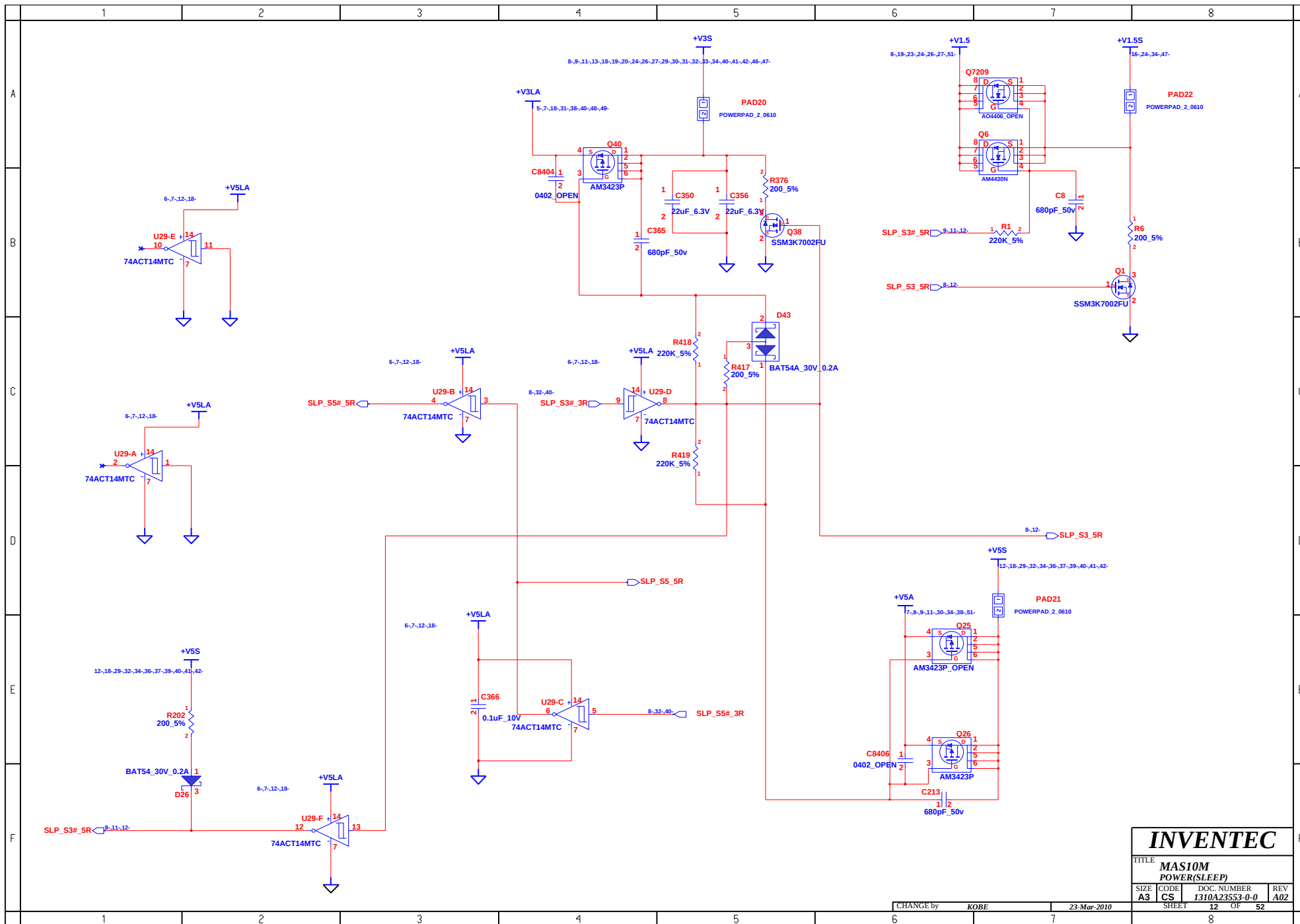
TITLE			
MAS10M			
SYSTEM POWER(+VCCP/+V1.5S)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310AZ3553-0-0	A02

CHANGE by KOBE 23-Mar-2010

SHEET 10 OF 52



INVENTEC			
TITLE MAS10M CPU POWER(VCC_CORE)			
SIZE A3	CODE CS	DOC. NUMBER I310AZ3553-0-0	REV A02
CHANGE by KOB		23-Mar-2010	
SHEET 11		OF 52	

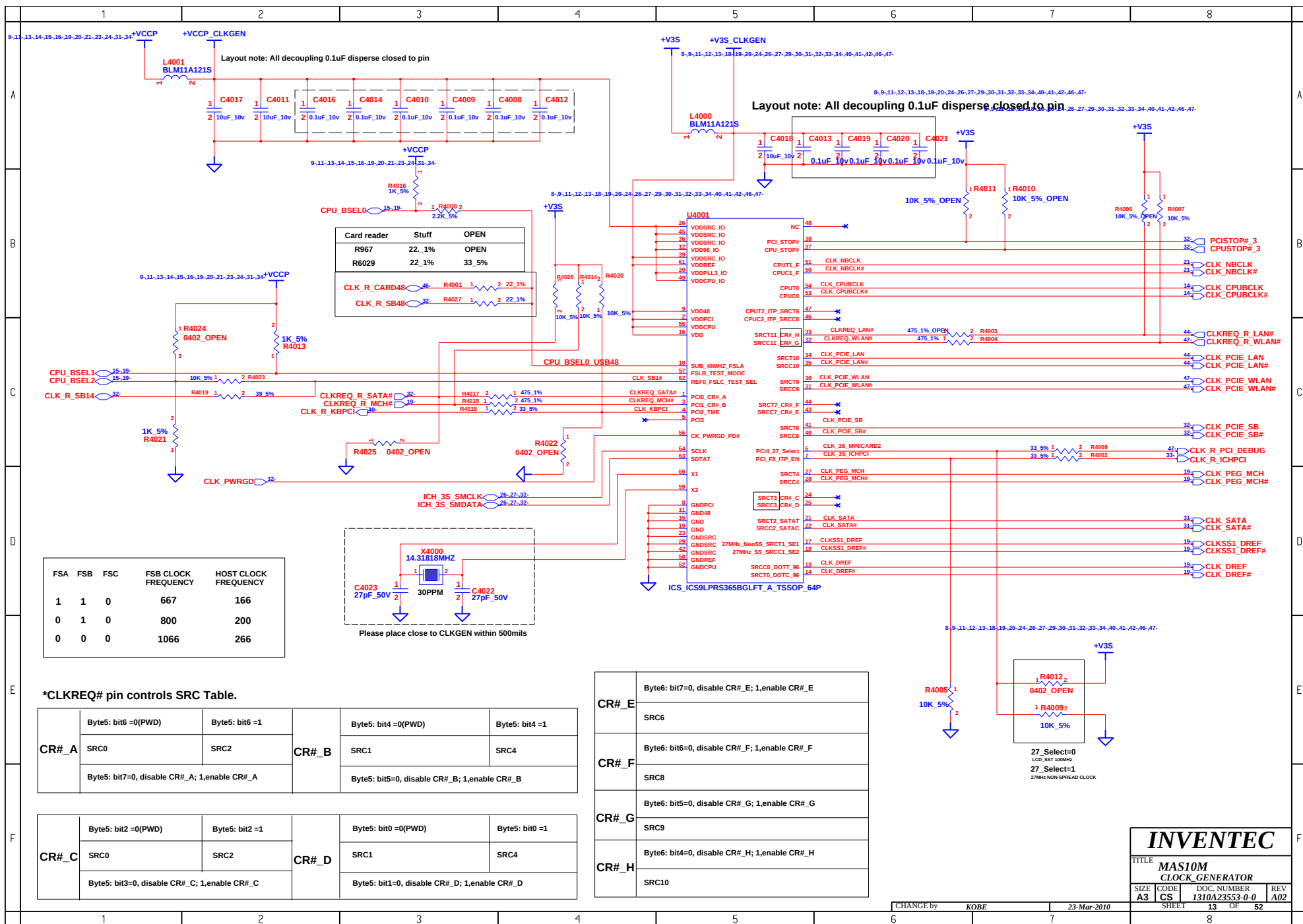


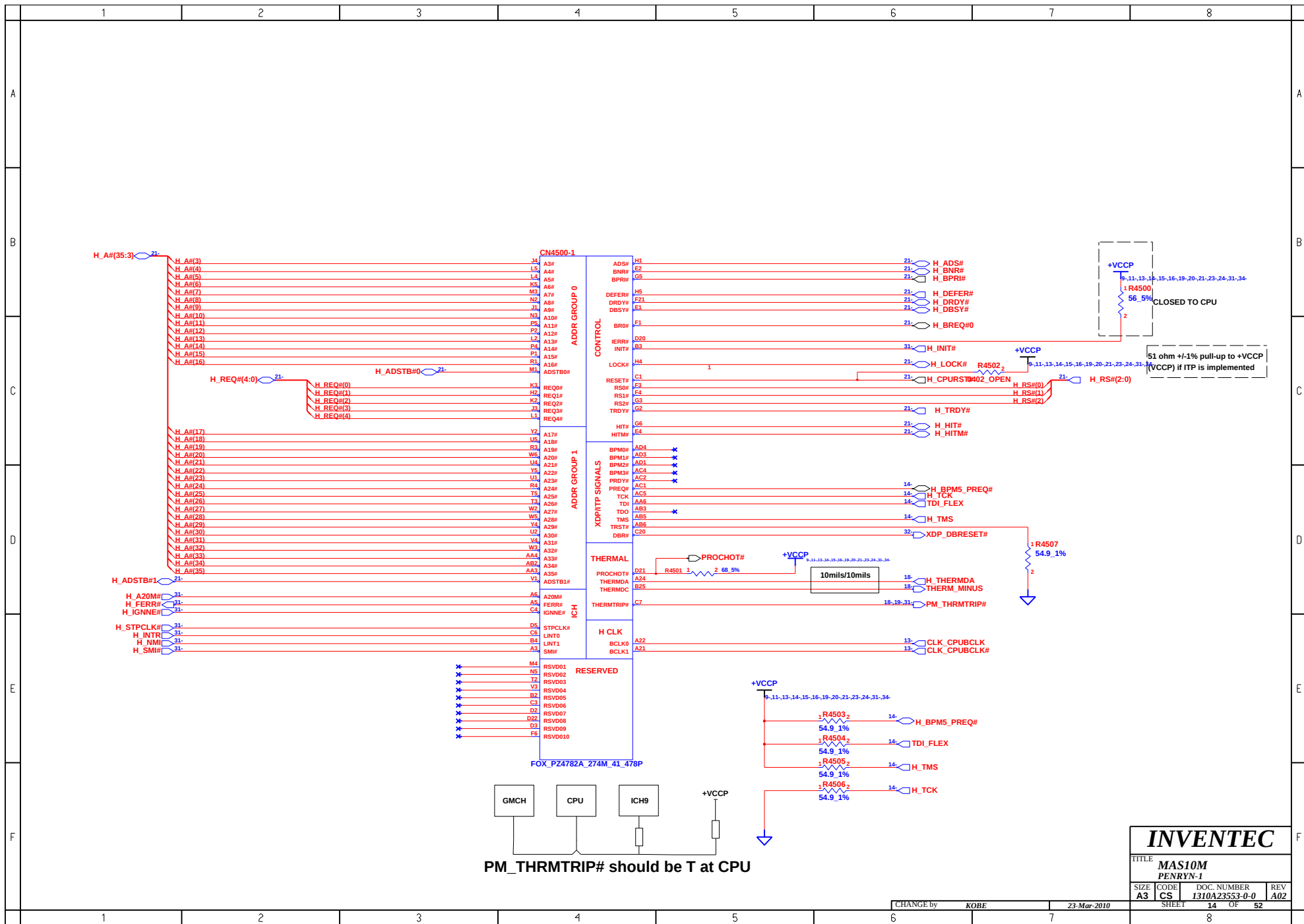
INVENTEC

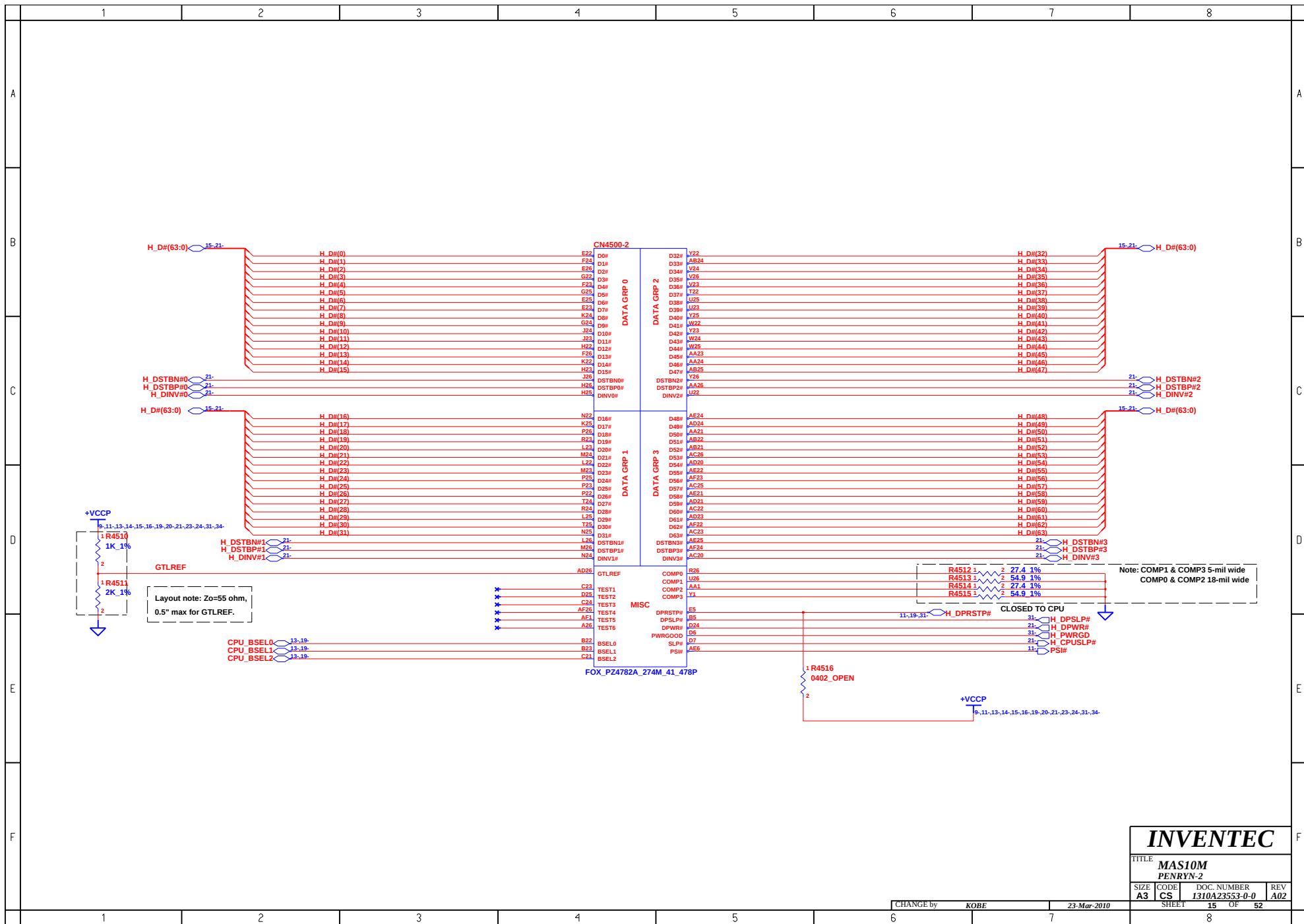
TITLE			
MAS10M POWER(SLEEP)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310AZ3553-0-0	A02

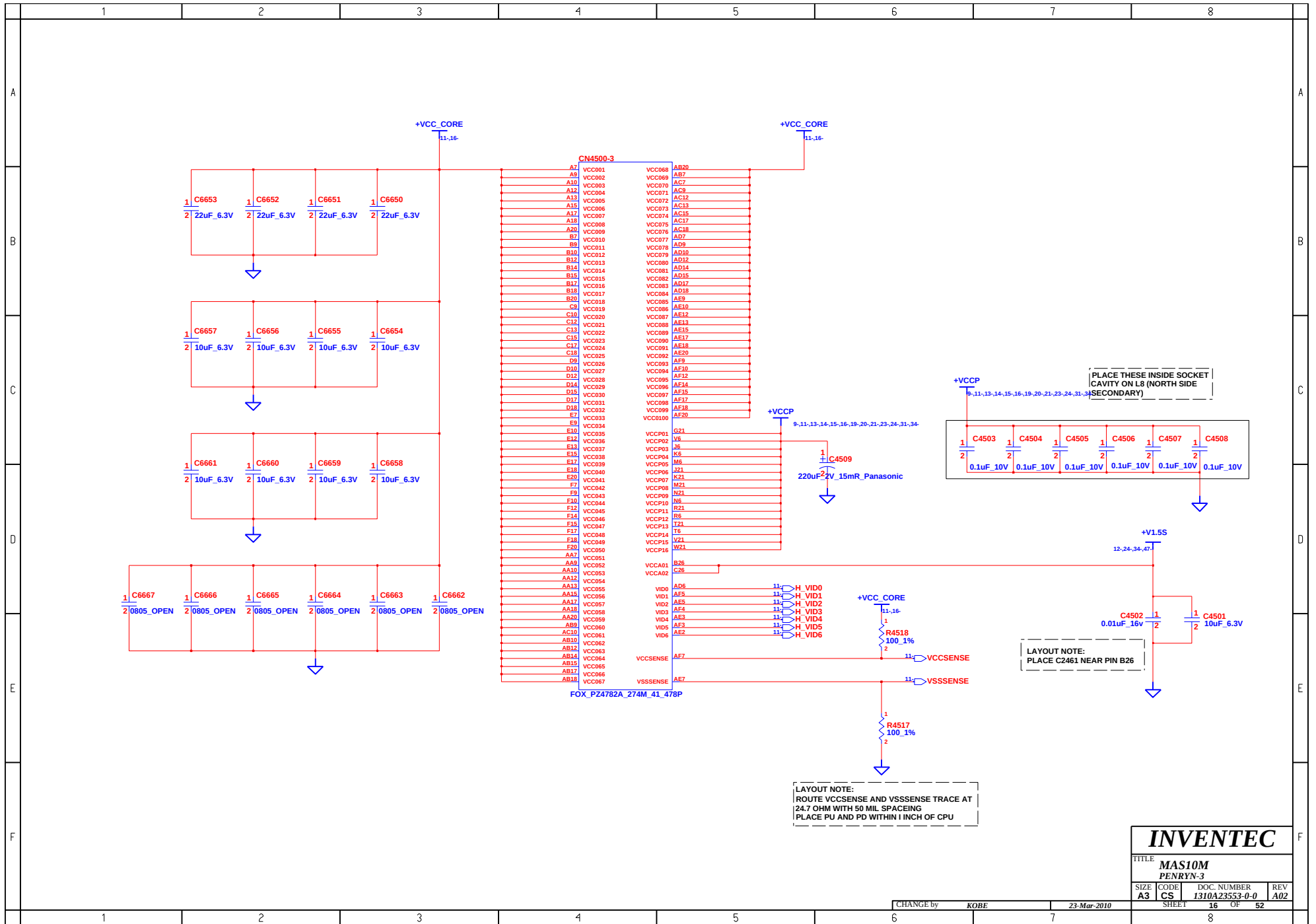
CHANGE by KOBE 23-Mar-2010

SHEET 12 OF 52







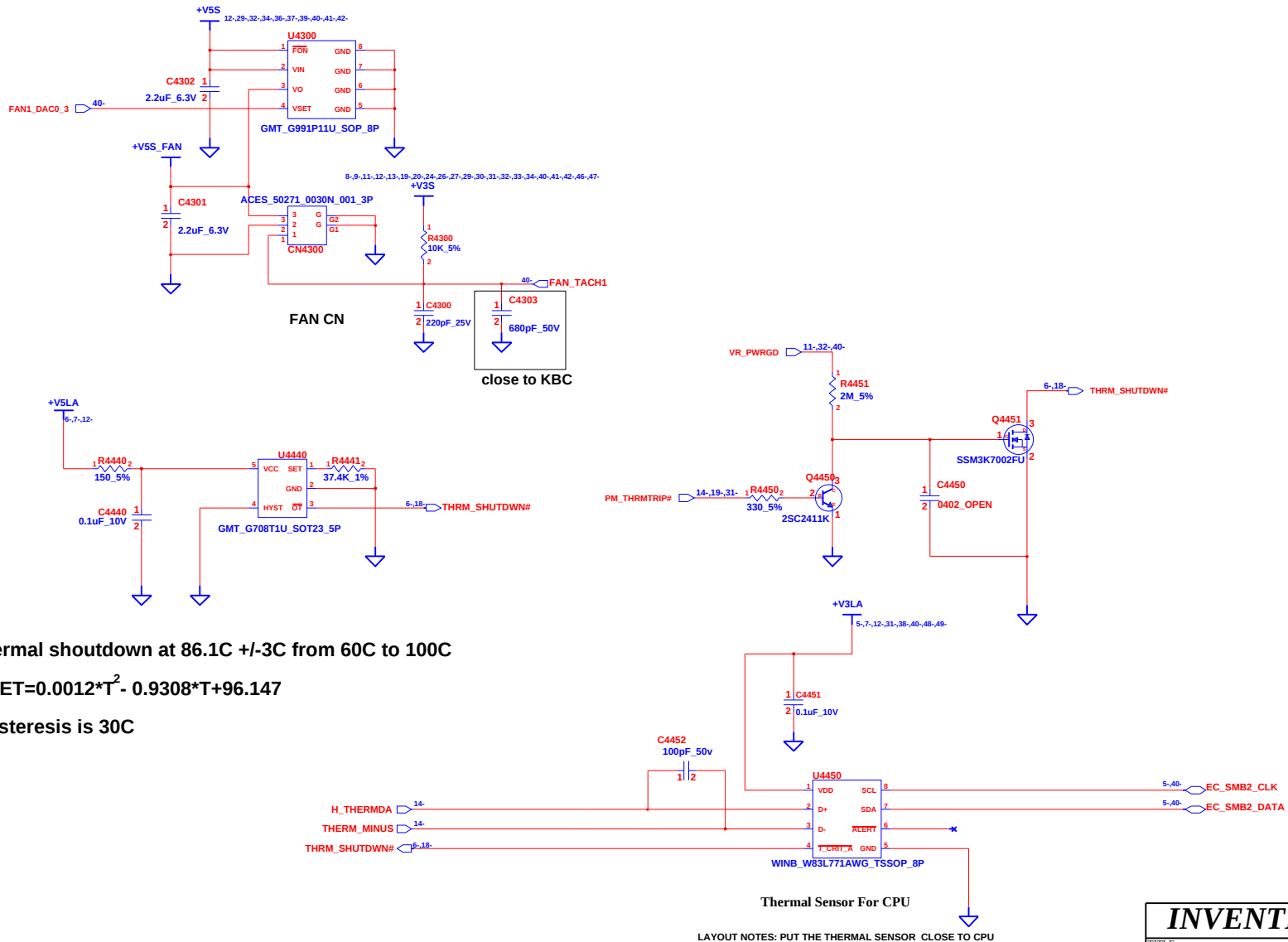


INVENTEC

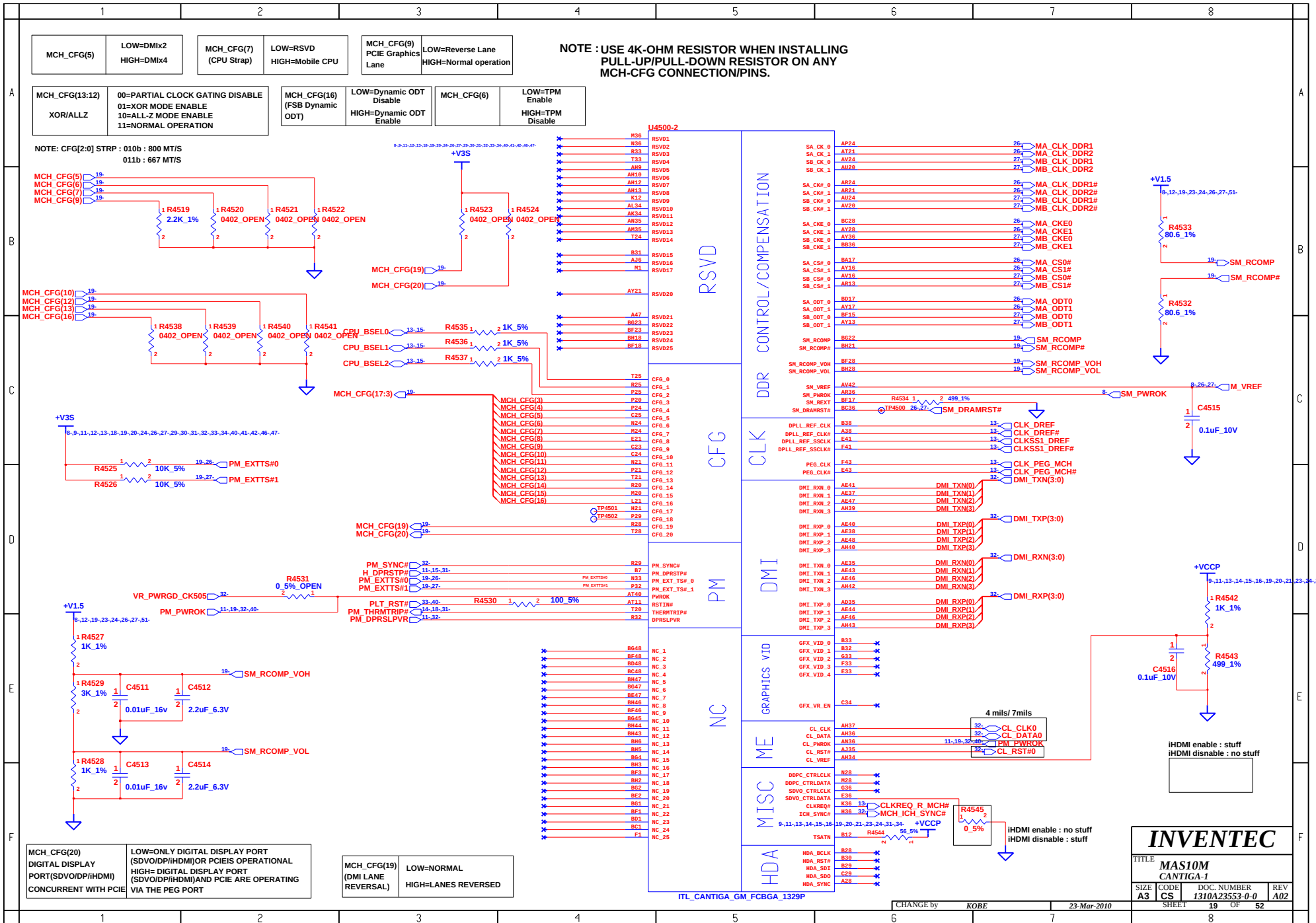
TITLE			
MAS10M			
PENRYN-3			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310AZ3553-0-0	A02
SHEET		16	OF 52

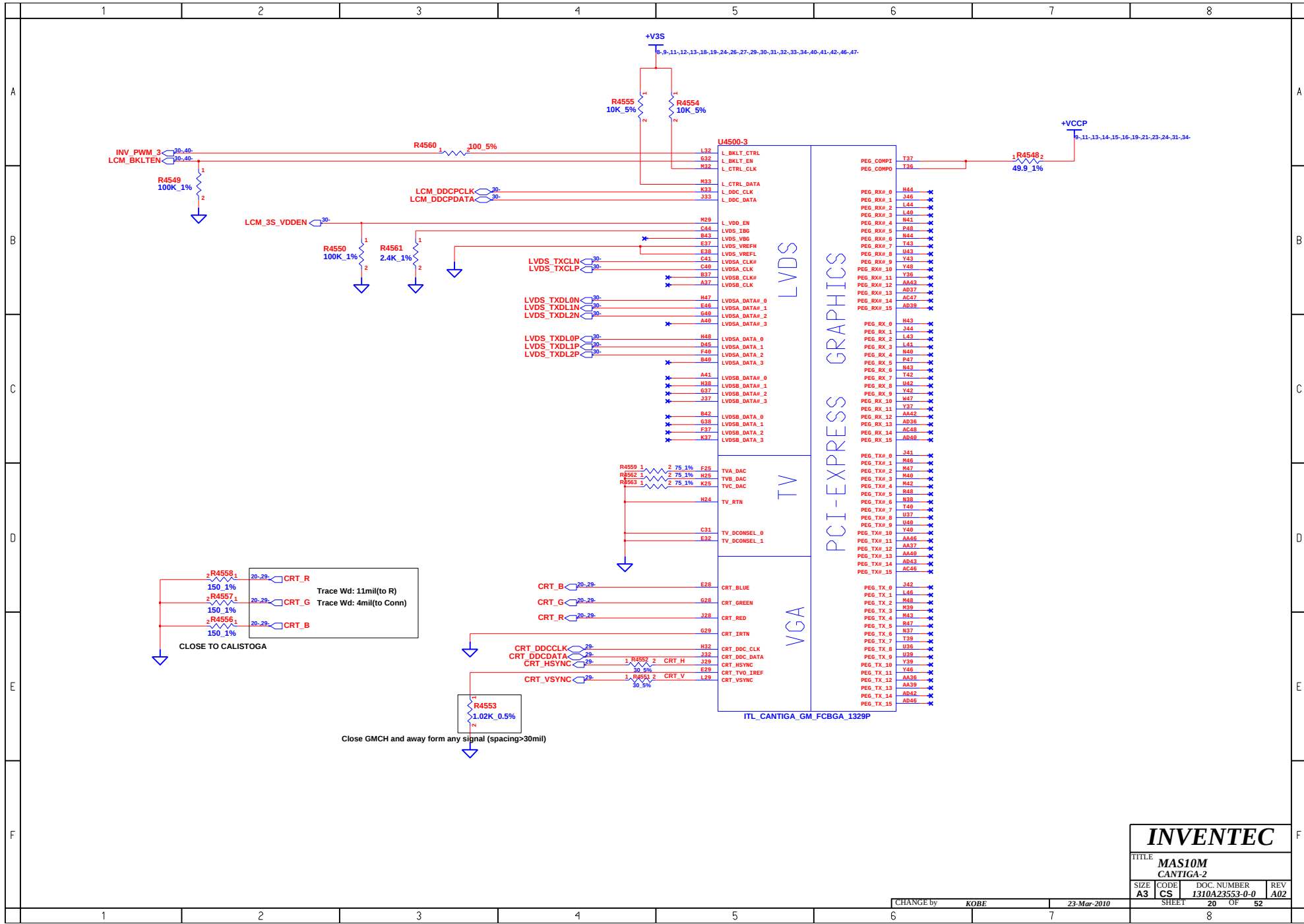
CHANGE by KOBE 23-Mar-2010

[illegible]



INVENTEC			
TITLE			
MAS10M			
THERMAL&FAN CONTROLLER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310AZ3553-0-0	A02
CHANGE by		23-Mar-2010	
SHEET		18	OF 52





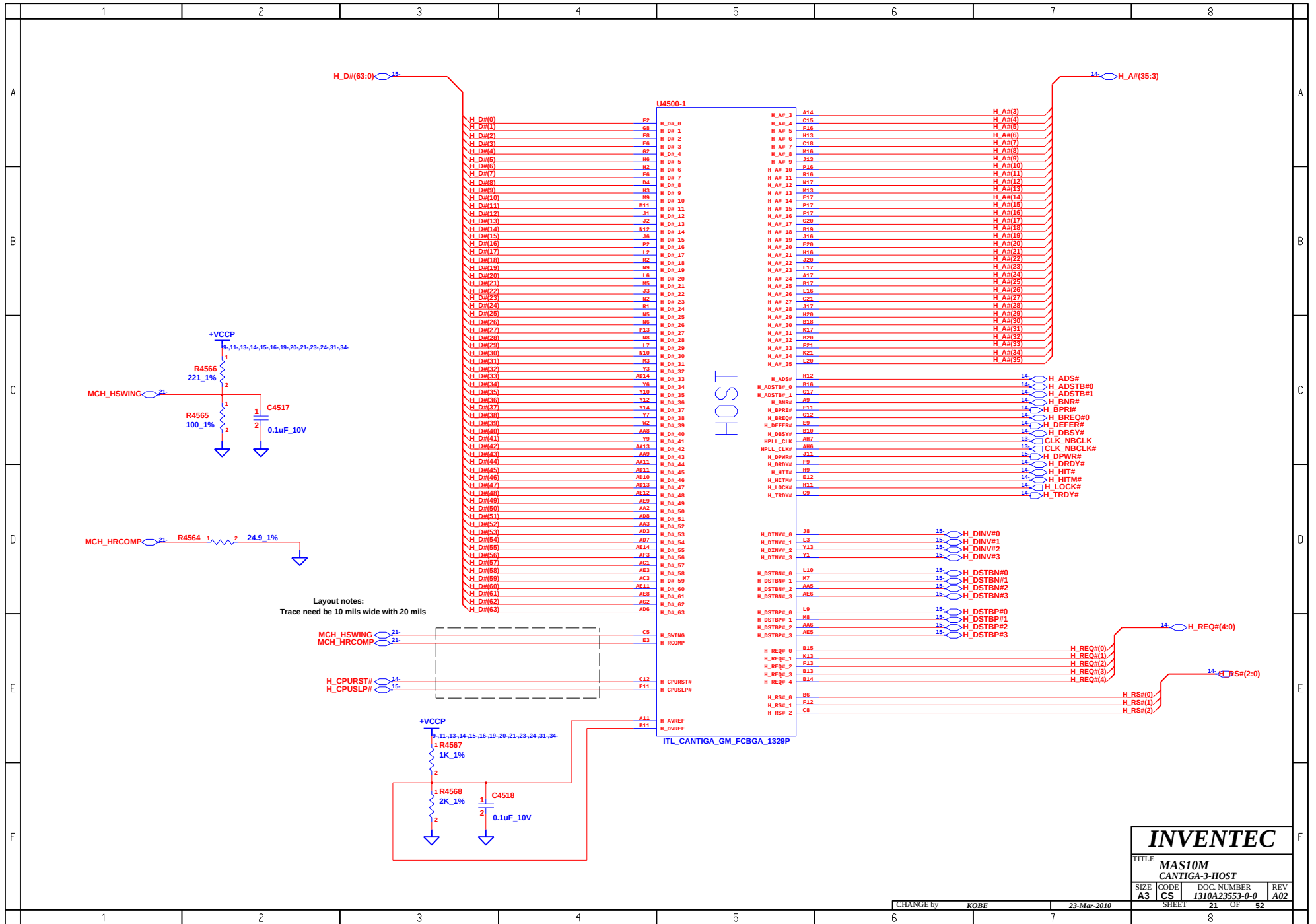
INVENTEC

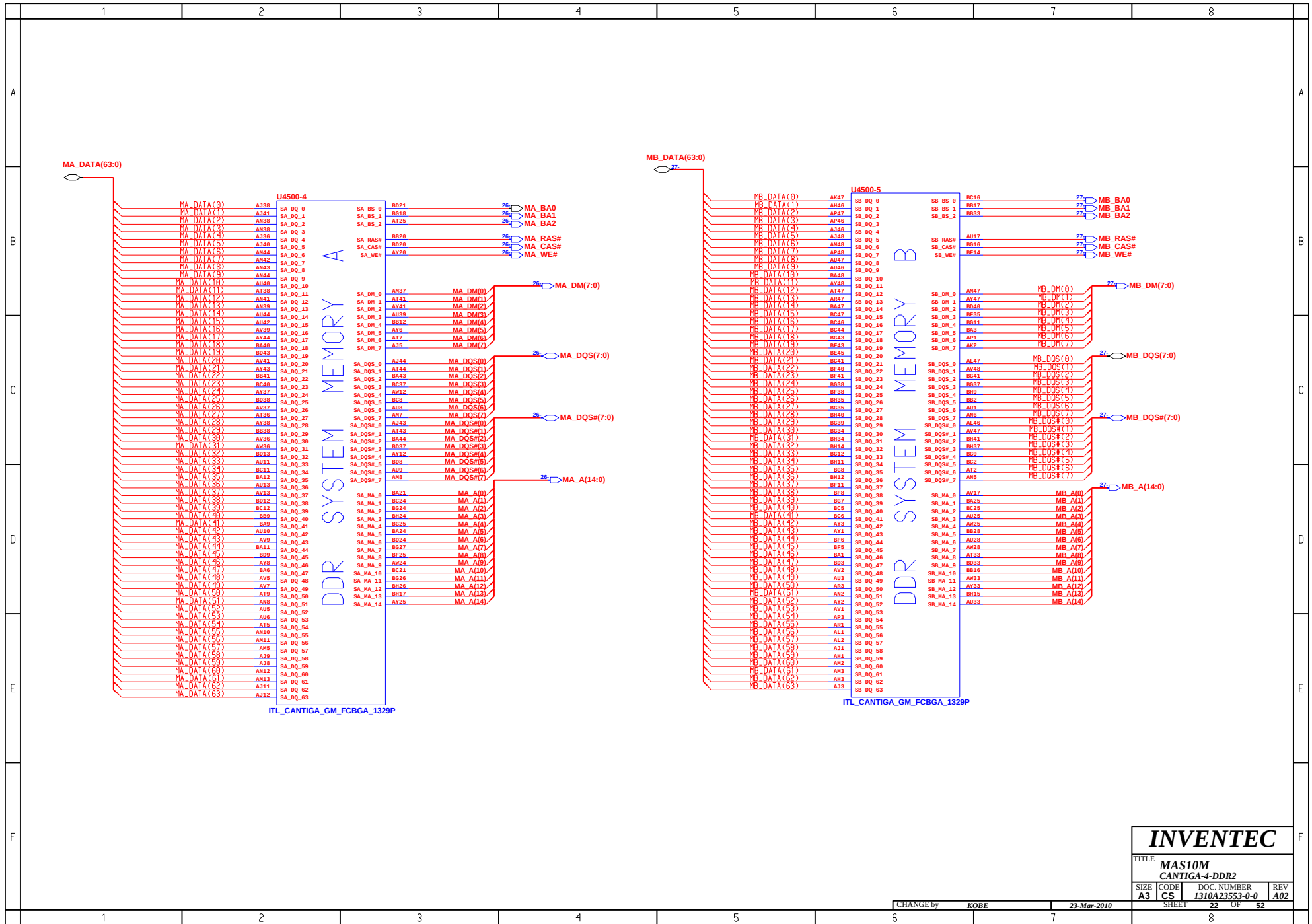
TITLE
**MAS10M
CANTIGA-2**

SIZE A3	CODE CS	DOC. NUMBER I310AZ3553-0-0	REV A02
-------------------	-------------------	--------------------------------------	-------------------

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

SHEET 20 OF 52

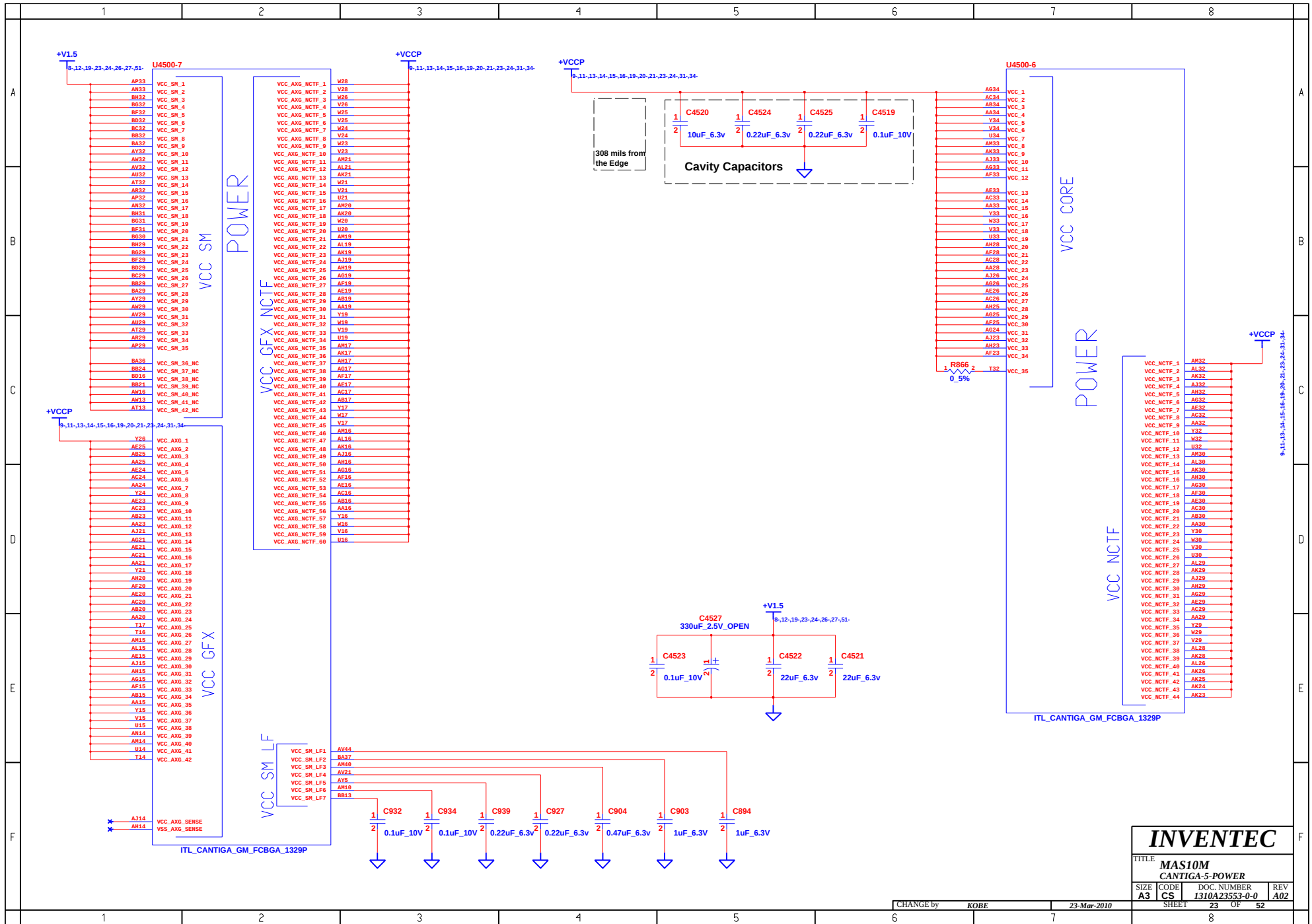




INVENTEC

TITLE			
MAS10M CANTIGA-4-DDR2			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310AZ3553-0-0	A02
SHEET		22	OF 52

CHANGE by KOBE 23-Mar-2010



INVENTEC

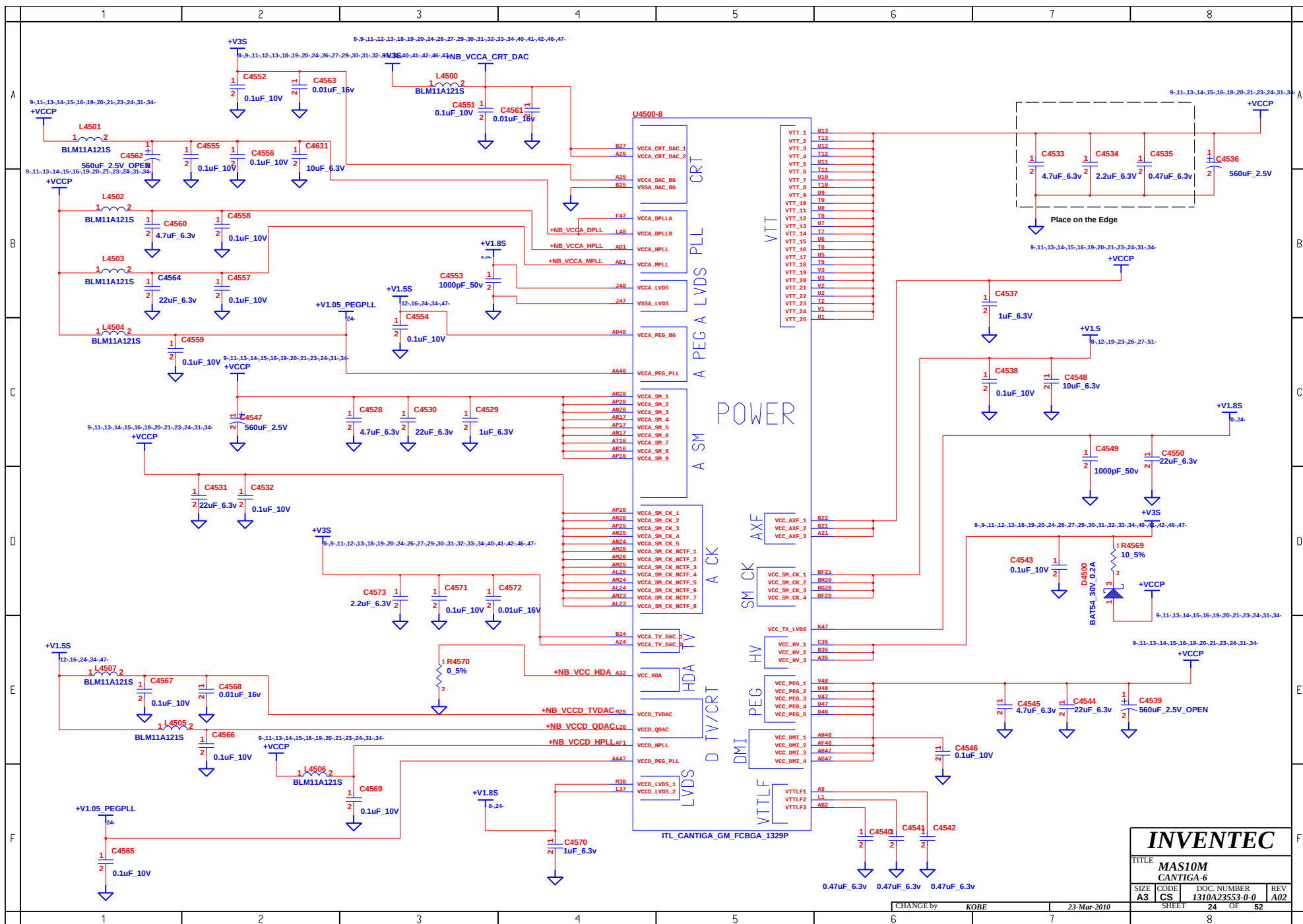
TITLE
MAS10M
CANTIGA-5-POWER

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310AZ3553-0-0	A02

CHANGE by KOBE

23-Mar-2010

SHEET 23 OF 52



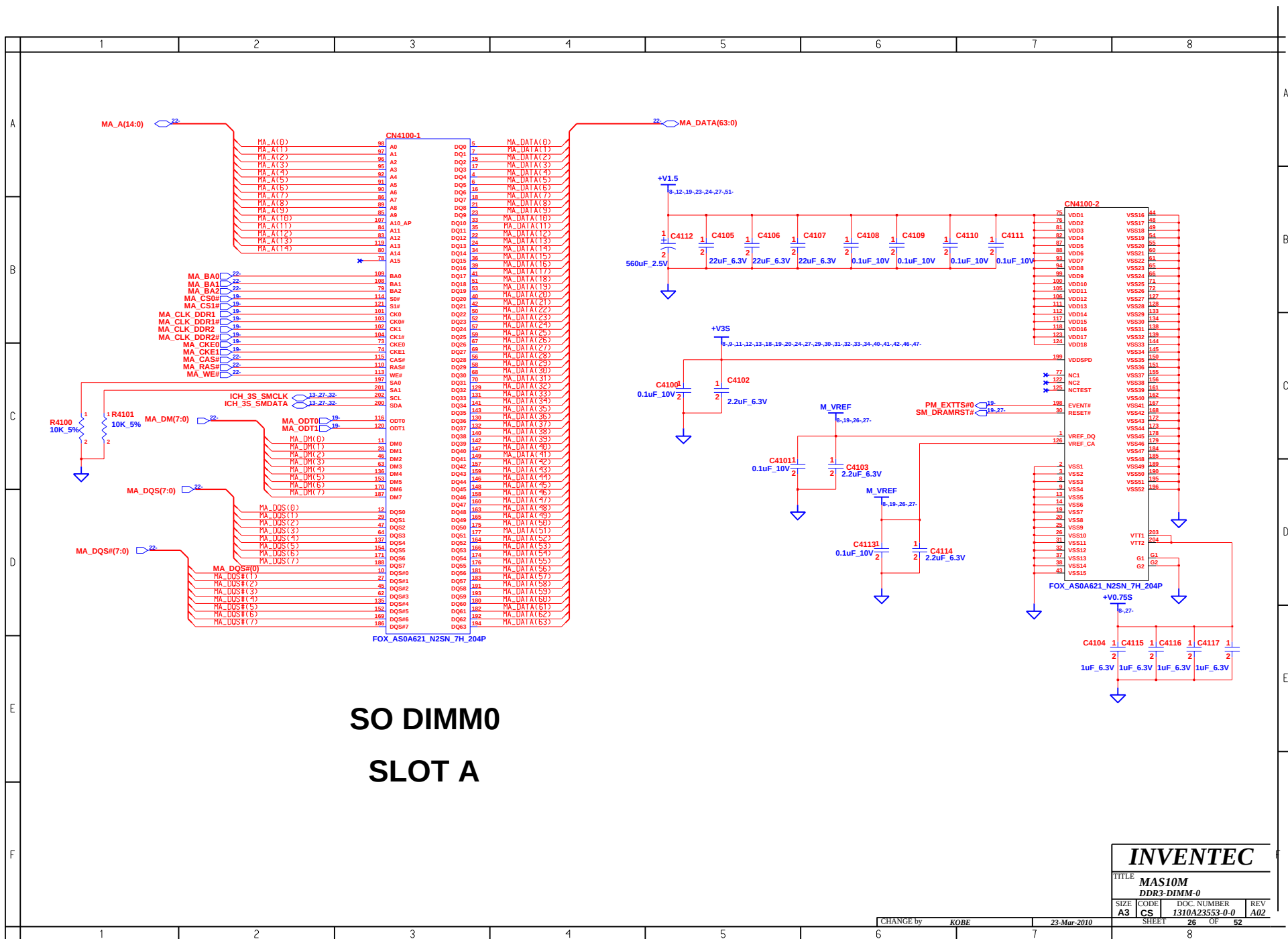
	1	2	3	4	5	6	7	8
A		U4500-9 AH48 VSS. 1 AR48 VSS. 2 AL48 VSS. 3 BH47 VSS. 4 AH47 VSS. 5 AH47 VSS. 6 AJ47 VSS. 7 AF47 VSS. 8 AD47 VSS. 9 AB47 VSS. 10 Y47 VSS. 11 Y47 VSS. 12 H47 VSS. 13 L47 VSS. 14 G47 VSS. 15 BD46 VSS. 16 BA46 VSS. 17 AV46 VSS. 18 AV46 VSS. 19 AR46 VSS. 20 AM46 VSS. 21 V46 VSS. 22 M46 VSS. 23 P46 VSS. 24 H46 VSS. 25 F46 VSS. 26 BF44 VSS. 27 AH44 VSS. 28 AD44 VSS. 29 AA44 VSS. 30 Y44 VSS. 31 U44 VSS. 32 T44 VSS. 33 M44 VSS. 34 F44 VSS. 35 BC43 VSS. 36 AV43 VSS. 37 AU43 VSS. 38 AM43 VSS. 39 J43 VSS. 40 C43 VSS. 41 BD42 VSS. 42 AY42 VSS. 43 AT42 VSS. 44 AM42 VSS. 45 AJ42 VSS. 46 AE42 VSS. 47 N42 VSS. 48 L42 VSS. 49 BD41 VSS. 50 AU41 VSS. 51 AM41 VSS. 52 AH41 VSS. 53 AD41 VSS. 54 AA41 VSS. 55 Y41 VSS. 56 U41 VSS. 57 T41 VSS. 58 H41 VSS. 59 G41 VSS. 60 B41 VSS. 61 BD40 VSS. 62 BB40 VSS. 63 AV40 VSS. 64 AM40 VSS. 65 H40 VSS. 66 C40 VSS. 67 AT39 VSS. 68 AN39 VSS. 69 AJ39 VSS. 70 AE39 VSS. 71 B39 VSS. 72 L39 VSS. 73 R39 VSS. 74 BH38 VSS. 75 BC38 VSS. 76 BA38 VSS. 77 AU38 VSS. 78 AH38 VSS. 79 AD38 VSS. 80 Y38 VSS. 81 Y38 VSS. 82 V38 VSS. 83 T38 VSS. 84 J38 VSS. 85 F38 VSS. 86 C38 VSS. 87 BB37 VSS. 88 BB37 VSS. 89 AN37 VSS. 90 AT37 VSS. 91 AN37 VSS. 92 AJ37 VSS. 93 H37 VSS. 94 C37 VSS. 95 BD36 VSS. 96 BD36 VSS. 97 AK15 VSS. 98 AU36 VSS. 99 ITL_CANTIGA_GM_FCBGA_1329P	VSS. 100 VSS. 101 VSS. 102 VSS. 103 VSS. 104 VSS. 105 VSS. 106 VSS. 107 VSS. 108 VSS. 109 VSS. 110 VSS. 111 VSS. 112 VSS. 113 VSS. 114 VSS. 115 VSS. 116 VSS. 117 VSS. 118 VSS. 119 VSS. 120 VSS. 121 VSS. 122 VSS. 123 VSS. 124 VSS. 125 VSS. 126 VSS. 127 VSS. 128 VSS. 129 VSS. 130 VSS. 131 VSS. 132 VSS. 133 VSS. 134 VSS. 135 VSS. 136 VSS. 137 VSS. 138 VSS. 139 VSS. 140 VSS. 141 VSS. 142 VSS. 143 VSS. 144 VSS. 145 VSS. 146 VSS. 147 VSS. 148 VSS. 149 VSS. 150 VSS. 151 VSS. 152 VSS. 153 VSS. 154 VSS. 155 VSS. 156 VSS. 157 VSS. 158 VSS. 159 VSS. 160 VSS. 161 VSS. 162 VSS. 163 VSS. 164 VSS. 165 VSS. 166 VSS. 167 VSS. 168 VSS. 169 VSS. 170 VSS. 171 VSS. 172 VSS. 173 VSS. 174 VSS. 175 VSS. 176 VSS. 177 VSS. 178 VSS. 179 VSS. 180 VSS. 181 VSS. 182 VSS. 183 VSS. 184 VSS. 185 VSS. 186 VSS. 187 VSS. 188 VSS. 189 VSS. 190 VSS. 191 VSS. 192 VSS. 193 VSS. 194 VSS. 195 VSS. 196 VSS. 197 VSS. 198	AM36 AE36 F36 L36 J36 AN34 AN35 AA35 Y35 T35 BF34 AM34 AJ34 AF34 AE34 M34 E34 A34 BC33 BA33 AV33 AL33 AH33 AB33 P33 H33 N32 K32 C32 C32 A31 AN29 T29 N29 K29 H29 F29 A29 B628 B615 BA28 AV28 AT28 AE28 AJ28 AE28 C14 BC13 BA13 AN13 N28 AE13 H13 L13 G13 E13 BF12 C12 B26 BN45 BD45 BB45 AV45 AM45 H45 C45 AT45 AN45 AJ45 AE45 Y45 T45 G45 B45 C45 E45 F45 Y24 E24 G24 F24 E24 BH43 AE23 Y23 B23 A23 ITL_CANTIGA_GM_FCBGA_1329P	B621 VSS. 199 L12 VSS. 200 F36 VSS. 201 L36 VSS. 202 AP21 VSS. 203 AN21 VSS. 204 AN21 VSS. 205 AF21 VSS. 206 AB21 VSS. 207 R21 VSS. 208 Y25 VSS. 209 J21 VSS. 210 G21 VSS. 211 BC29 VSS. 212 BA29 VSS. 213 AN29 VSS. 214 AT29 VSS. 215 AJ29 VSS. 216 AE29 VSS. 217 Y29 VSS. 218 N29 VSS. 219 K29 VSS. 220 F29 VSS. 221 C29 VSS. 222 A29 VSS. 223 B618 VSS. 224 VSS. 225 B617 VSS. 226 BC17 VSS. 227 L31 VSS. 228 AT17 VSS. 229 R17 VSS. 230 H17 VSS. 231 F17 VSS. 232 C17 VSS. 233 BA16 VSS. 235 T24 VSS. 237 N16 VSS. 238 H16 VSS. 239 F16 VSS. 240 G16 VSS. 241 E16 VSS. 242 B615 VSS. 243 BA15 VSS. 244 AV15 VSS. 245 AT15 VSS. 246 AE15 VSS. 247 AJ15 VSS. 248 C14 VSS. 249 BC13 VSS. 250 BA13 VSS. 251 VSS. 252 VSS. 255 VSS. 256 VSS. 257 VSS. 258 VSS. 259 VSS. 260 VSS. 261 VSS. 262 VSS. 263 VSS. 264 VSS. 265 VSS. 266 VSS. 267 VSS. 268 VSS. 269 VSS. 270 VSS. 271 VSS. 272 VSS. 273 Y11 VSS. 275 N11 VSS. 276 G11 VSS. 277 BF14 VSS. 278 B610 VSS. 279 AV19 VSS. 280 AT18 VSS. 281 AJ18 VSS. 282 AE18 VSS. 283 AA10 VSS. 284 H18 VSS. 285 B24 VSS. 286 BC9 VSS. 287 AN9 VSS. 288 AN9 VSS. 289 AN9 VSS. 290 G9 VSS. 291 B9 VSS. 292 B68 VSS. 293 B68 VSS. 294 AV8 VSS. 295 AT8 VSS. 296 ITL_CANTIGA_GM_FCBGA_1329P	VSS. 297 Y8 L8 E8 B8 AY7 AN7 AN7 AJ7 AE7 AA7 B7 J7 B68 B68 AV8 AT8 AM8 M8 C8 BA5 AN5 Y5 L5 J5 HS F5 BE4 VSS. 327 BC3 AV3 AL3 R3 P3 VSS. 332 BA2 AM2 AU2 VSS. 336 AP2 VSS. 338 VSS. 339 VSS. 340 VSS. 341 VSS. 342 VSS. 343 VSS. 344 VSS. 345 VSS. 346 VSS. 347 VSS. 348 VSS. 349 VSS. 350 VSS. 351 VSS. 352 VSS. 353 VSS. 354 AF32 AB32 V32 AJ18 AM29 AE29 AB29 U29 U23 V29 VSS. NCTF. 10 VSS. NCTF. 11 VSS. NCTF. 12 VSS. NCTF. 13 VSS. NCTF. 14 VSS. NCTF. 15 VSS. NCTF. 16 VSS. SCB. 1 VSS. SCB. 2 VSS. SCB. 3 VSS. SCB. 4 VSS. SCB. 5 VSS. SCB. 6 E1 D2 C3 B4 A5 A6 A43 A44 B45 C46 D47 B47 A48 F49 E49 C48 B48	VSS VSS NCTF VSS SCB VSS NCTF NC	A B C D E F
	1	2	3	4	5	6	7	8

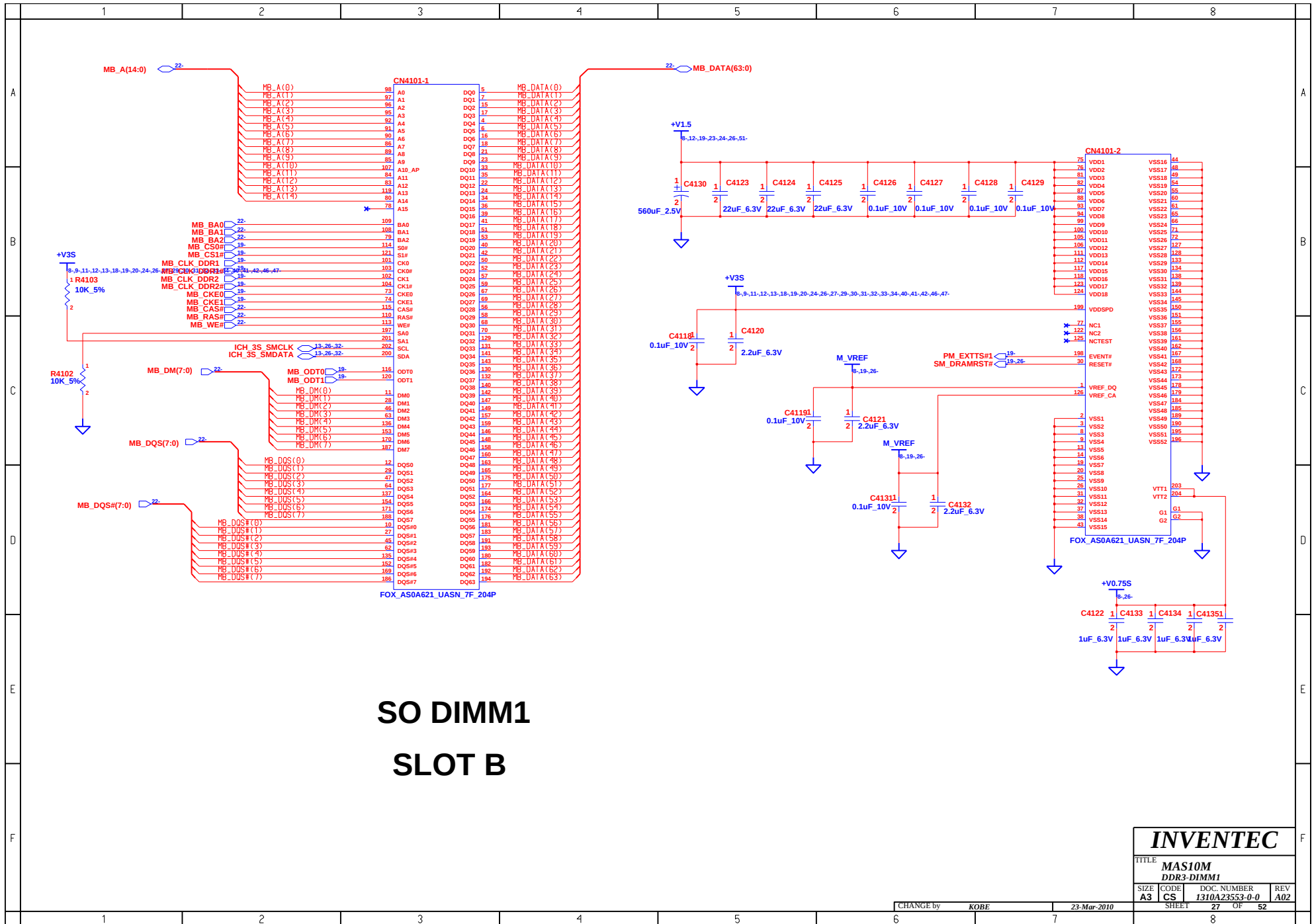
INVENTEC

TITLE
**MAS10M
CANTIGA-7**

SIZE A3	CODE CS	DOC. NUMBER I310AZ3553-0-0	REV A02
SHEET 25		OF 52	

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



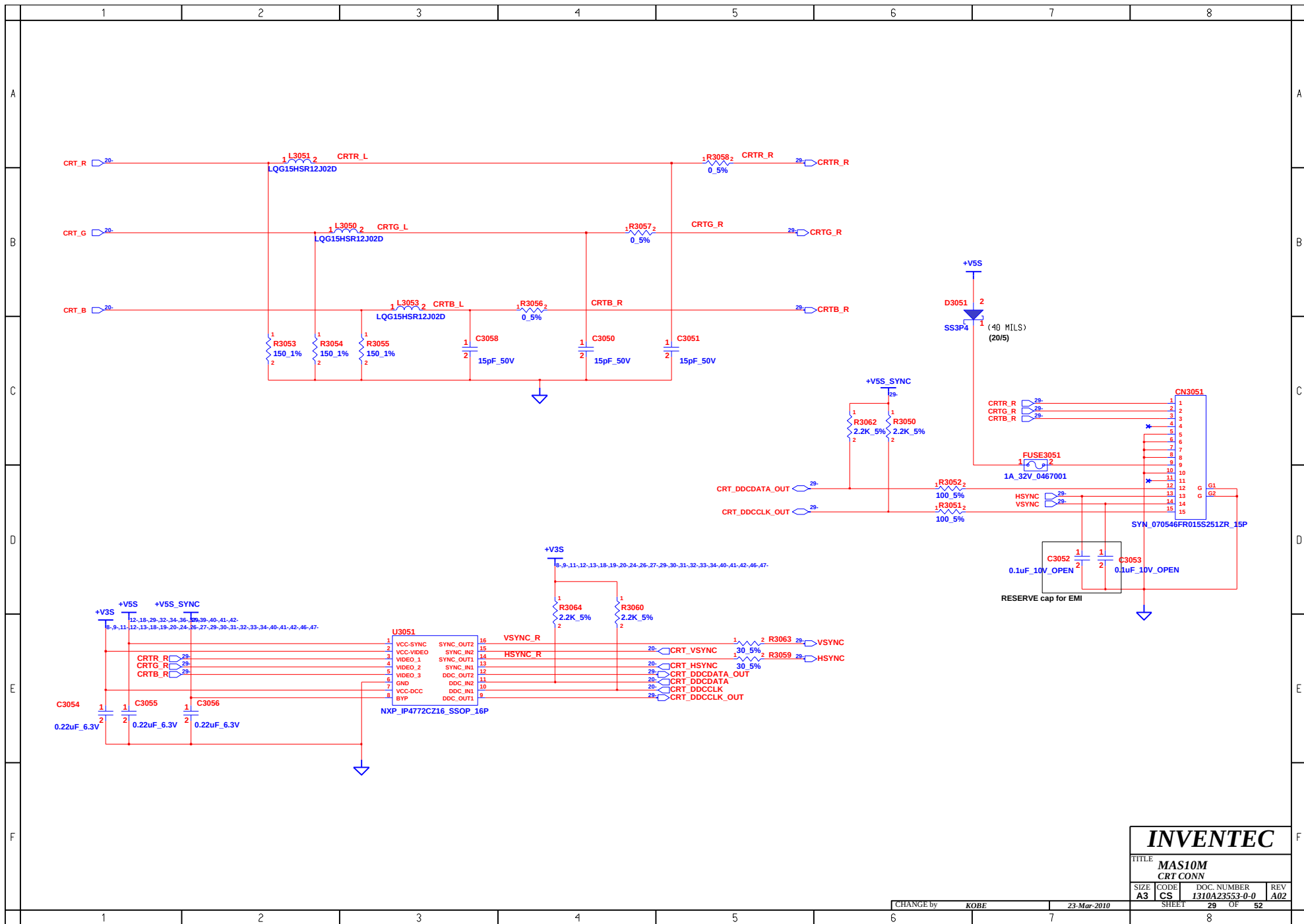


	1	2	3	4	5	6	7	8	
A	BLANK								A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC

TITLE			
MAS10M BLANK			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310AZ3553-0-0	A02
SHEET		28	OF 52

CHANGE by KOBE 27-Sep-2003

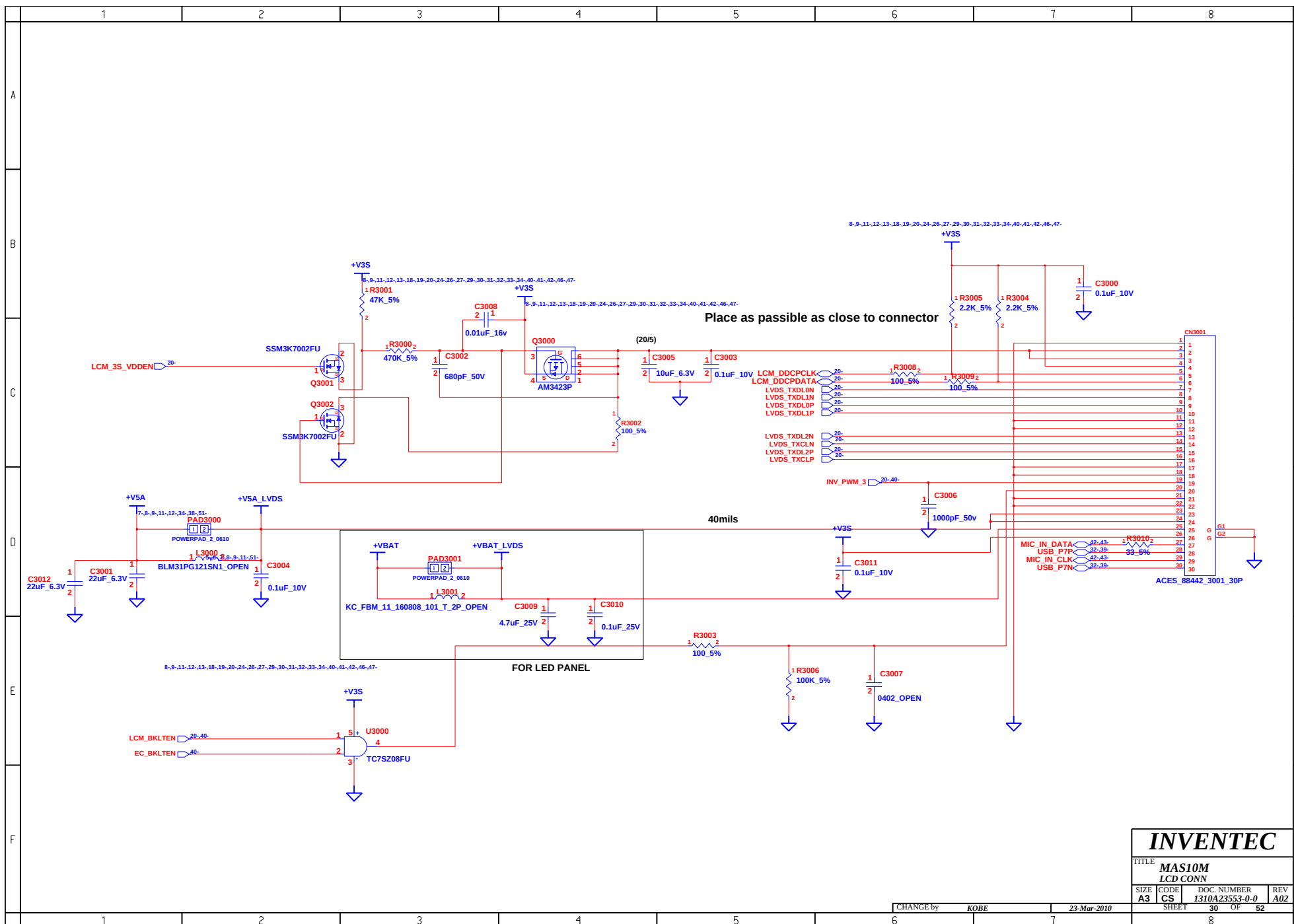


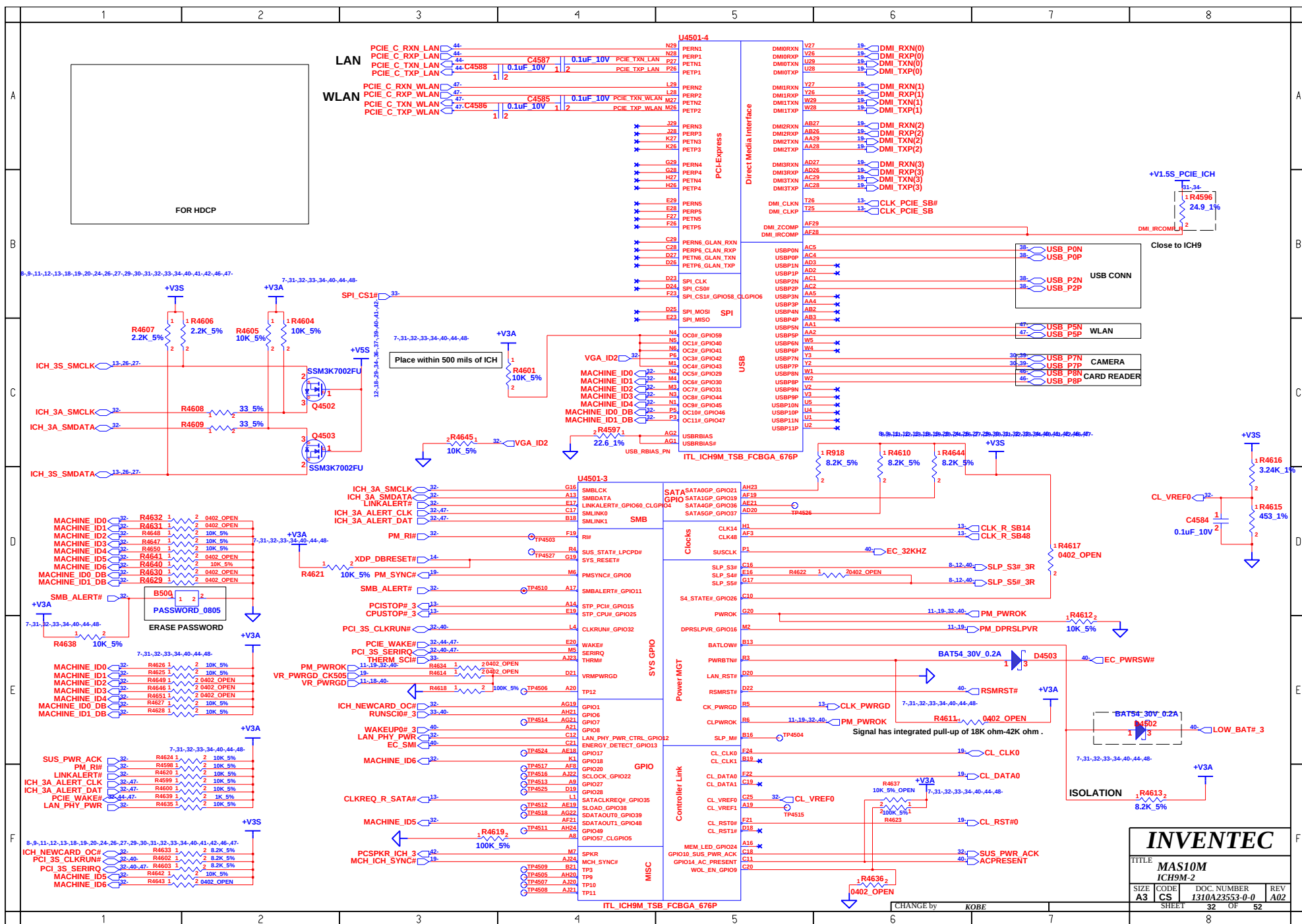
INVENTEC

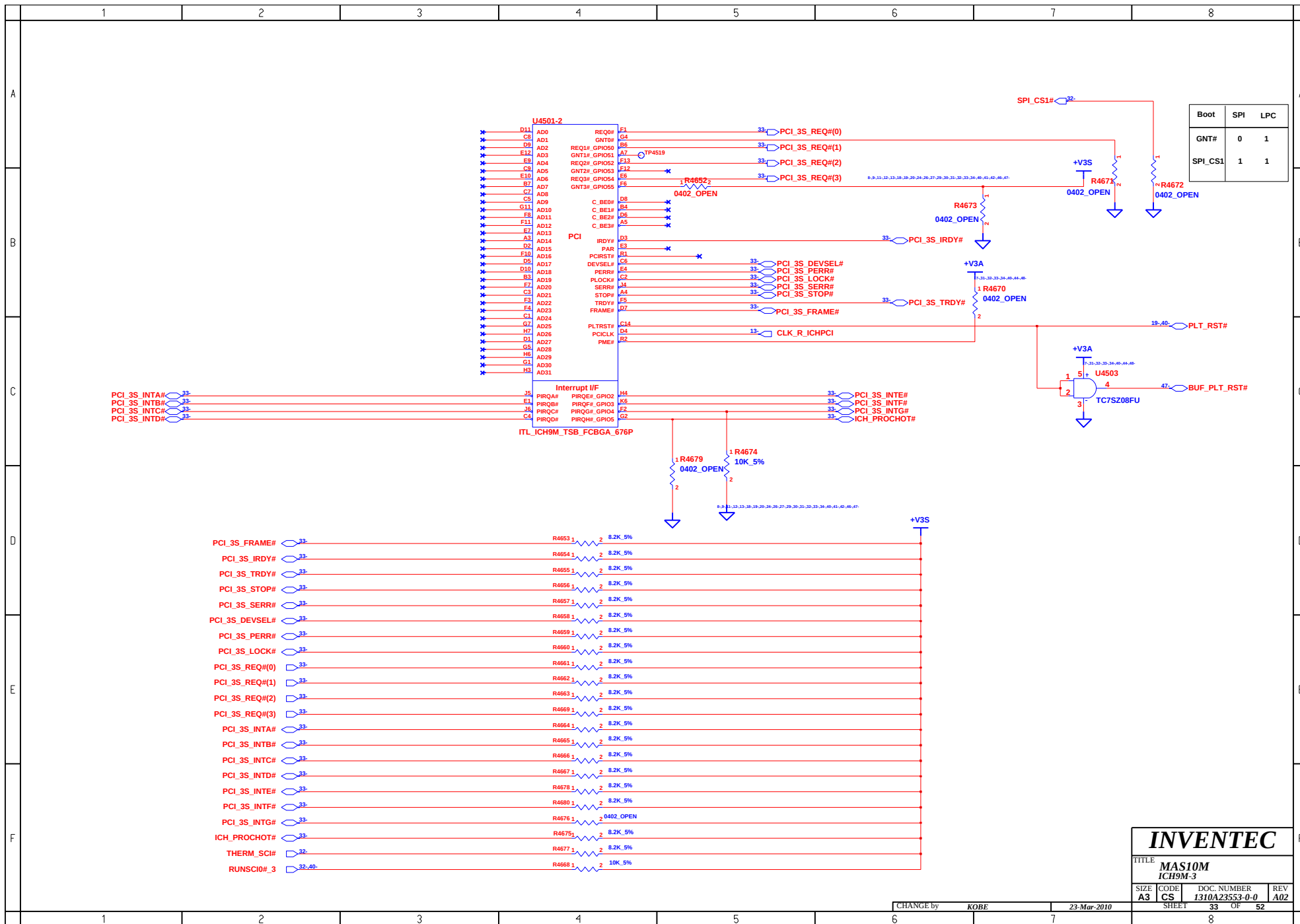
TITLE			
MAS10M			
CRT CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310AZ3553-0-0	A02

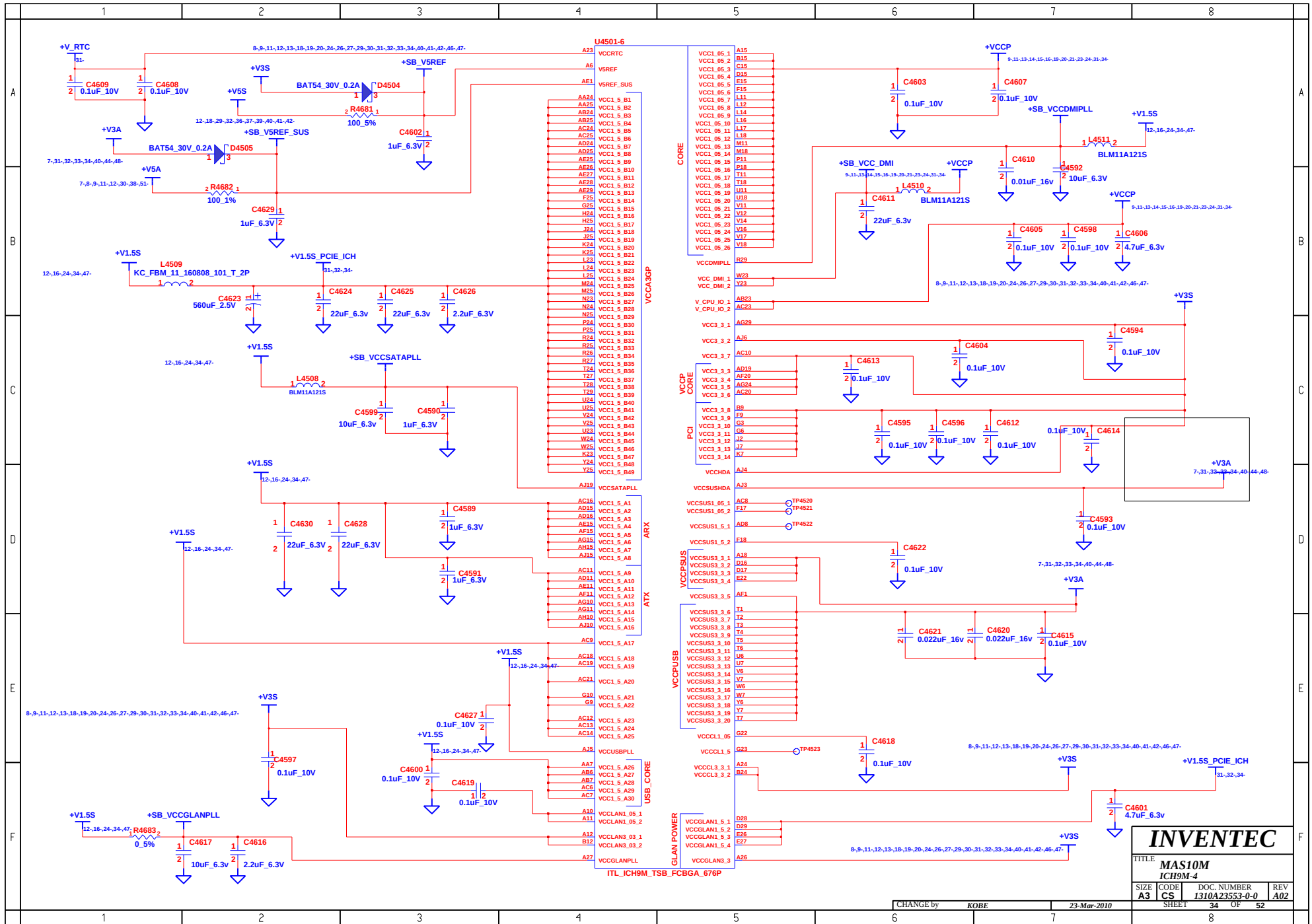
CHANGE by KOBE 23-Mar-2010

SHEET 29 OF 52





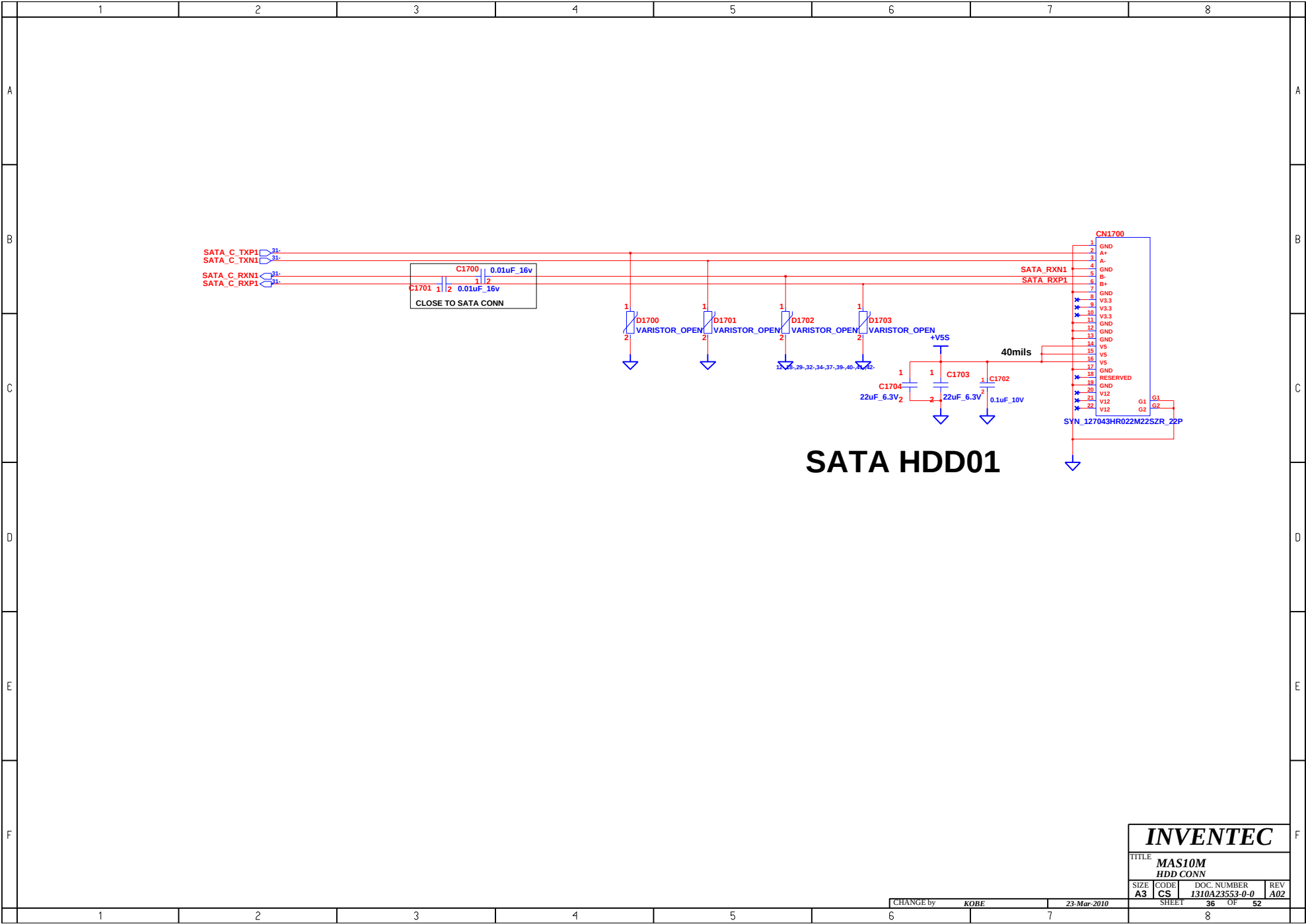




	1	2	3	4	5	6	7	8
A								
B								
C								
D								
E								
F								

CHANGE by				KOB		23-Mar-2010	
SHEET				35		OF 52	

TITLE			
MAS10M			
ICH9M-5			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23553-0-0	A02

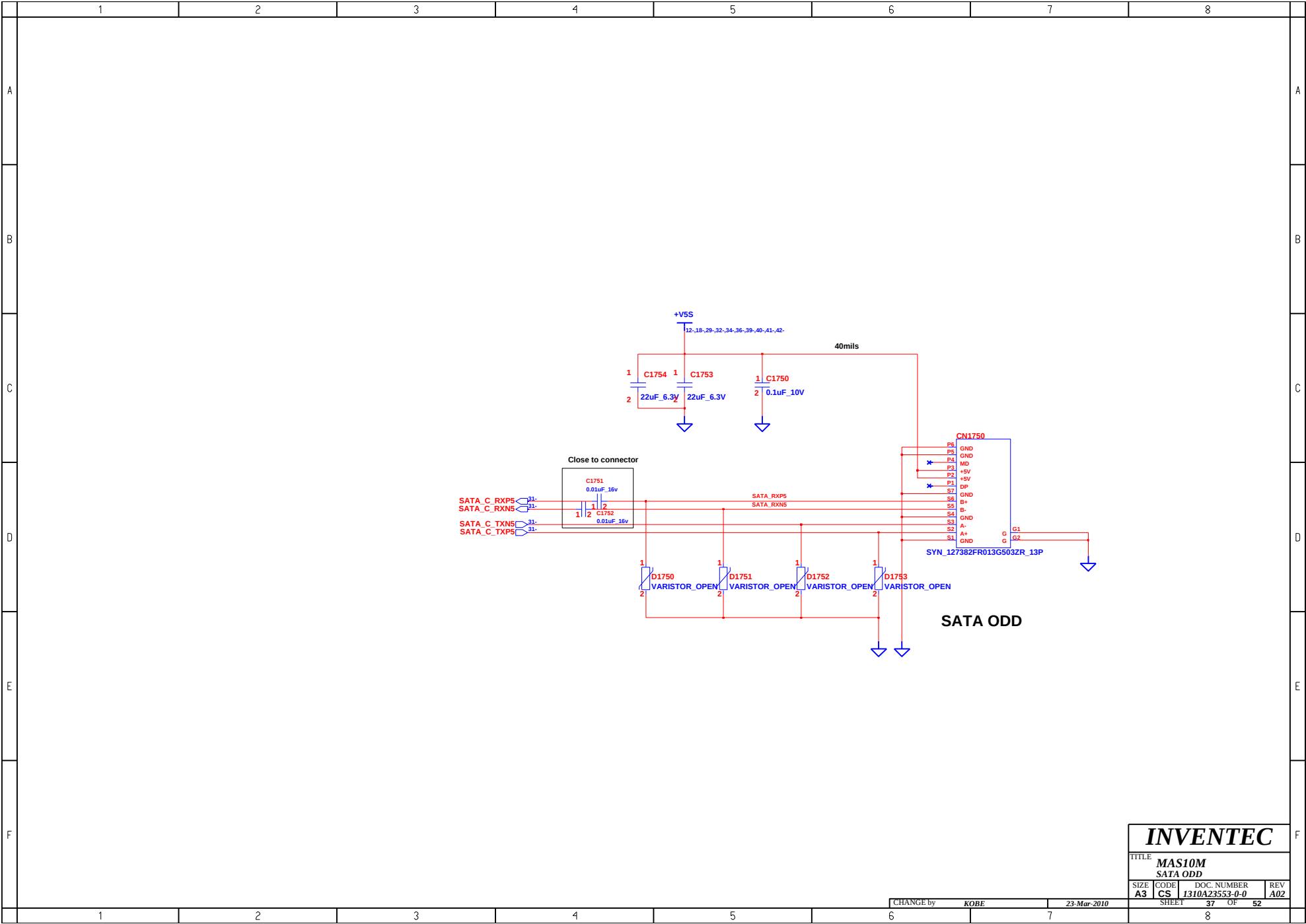


INVENTEC

TITLE			
MAS10M			
HDD CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310AZ3553-0-0	A02

CHANGE by KOBE 23-Mar-2010

SHEET 36 OF 52



INVENTEC

TITLE
MAS10M
SATA ODD

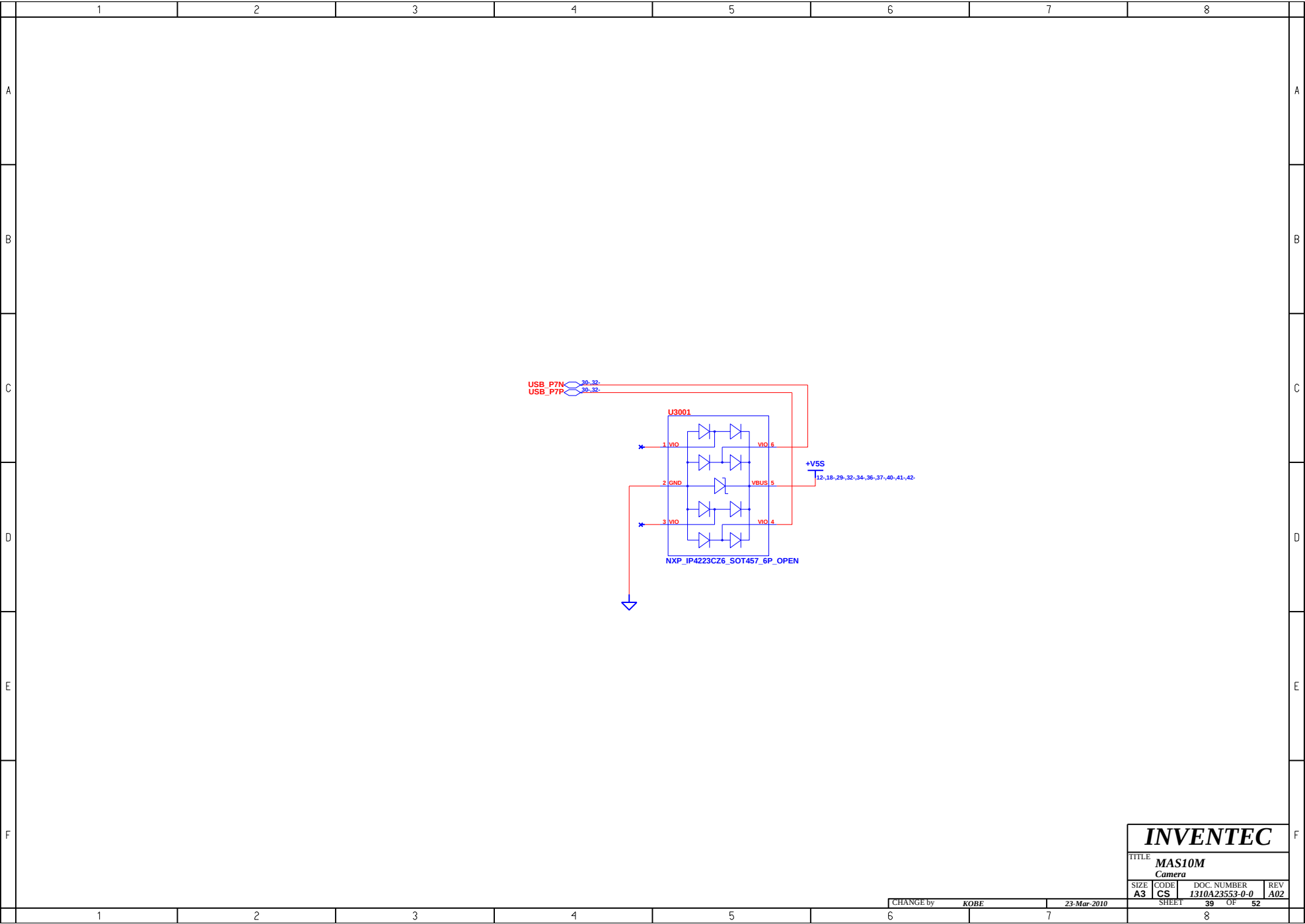
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23553-0-0	A02

CHANGE by KOBE 23-Mar-2010

SHEET 37 OF 52



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

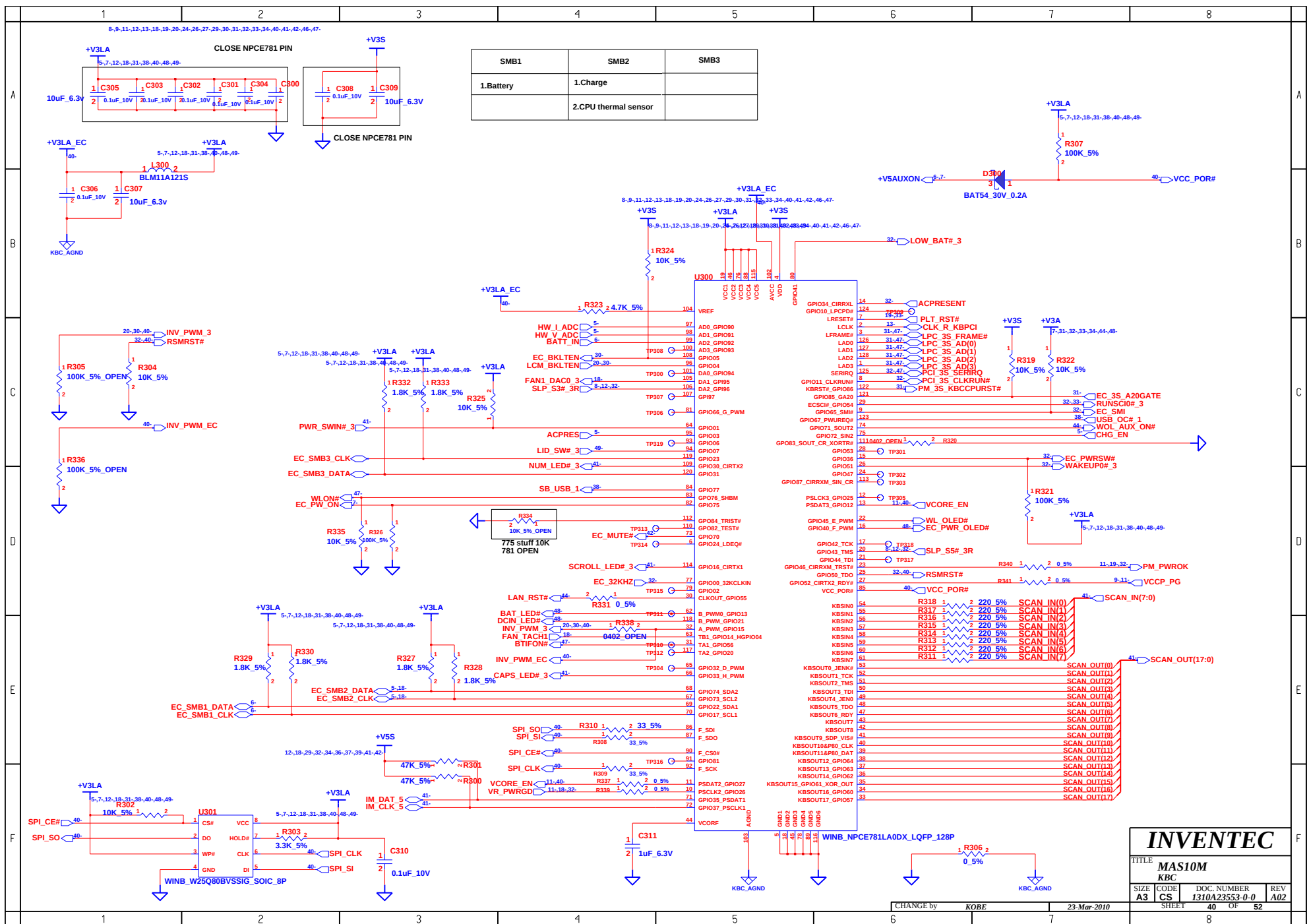


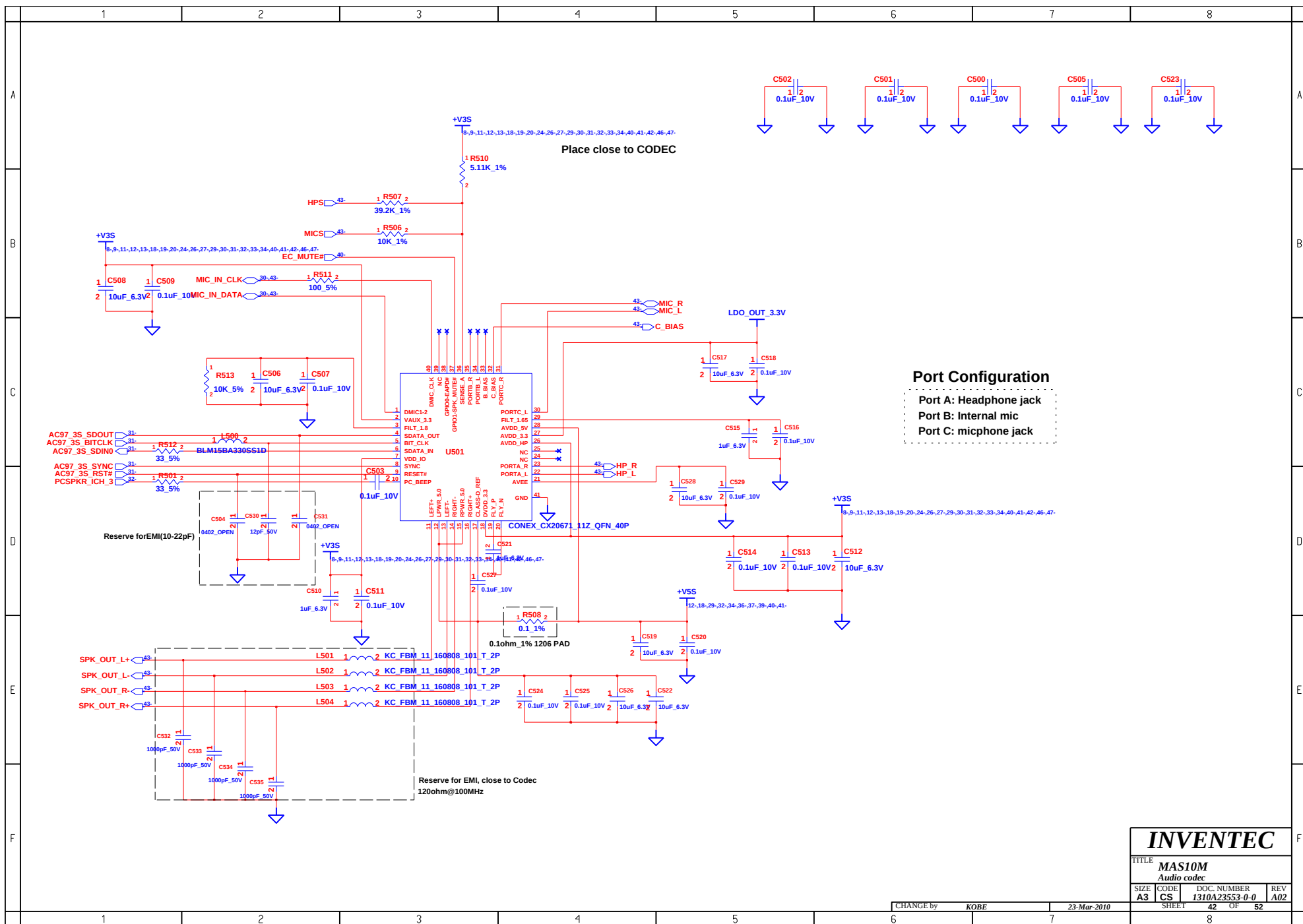
INVENTEC

TITLE			
MAS10M			
Camera			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310AZ3553-0-0	A02

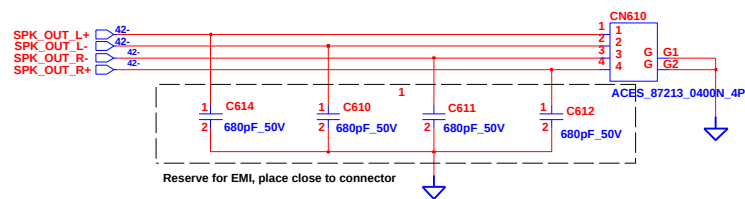
CHANGE by KOBE 23-Mar-2010

SHEET 39 OF 52

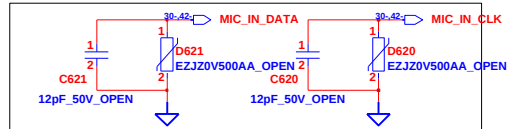




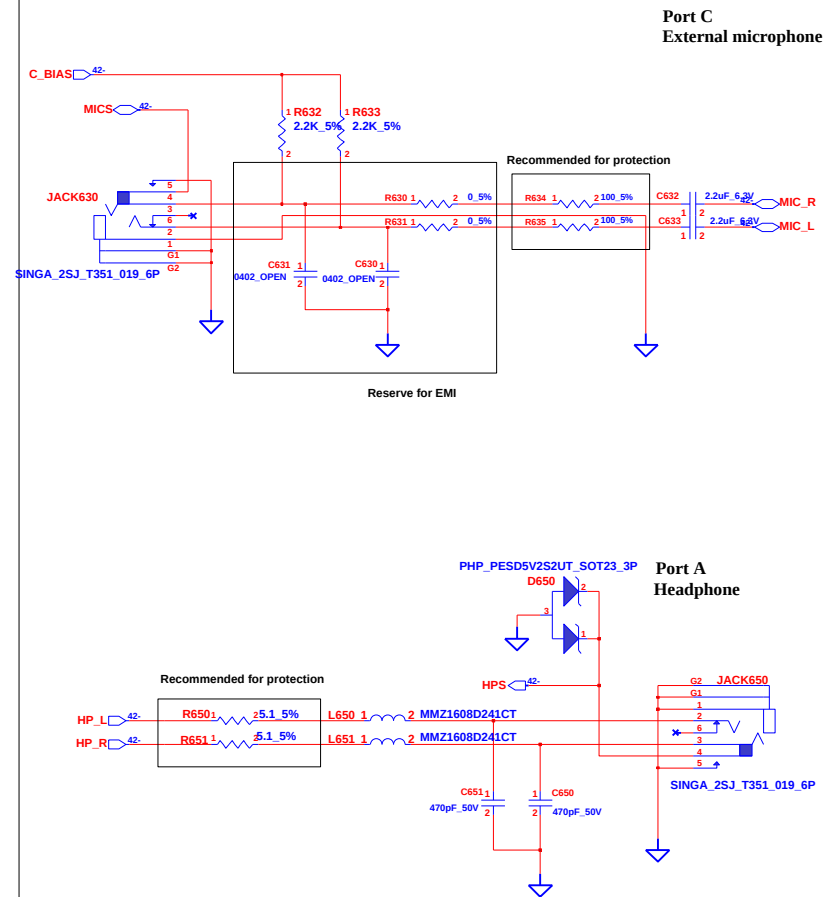
INTERNAL SPEAKERS



INTERNAL MIC



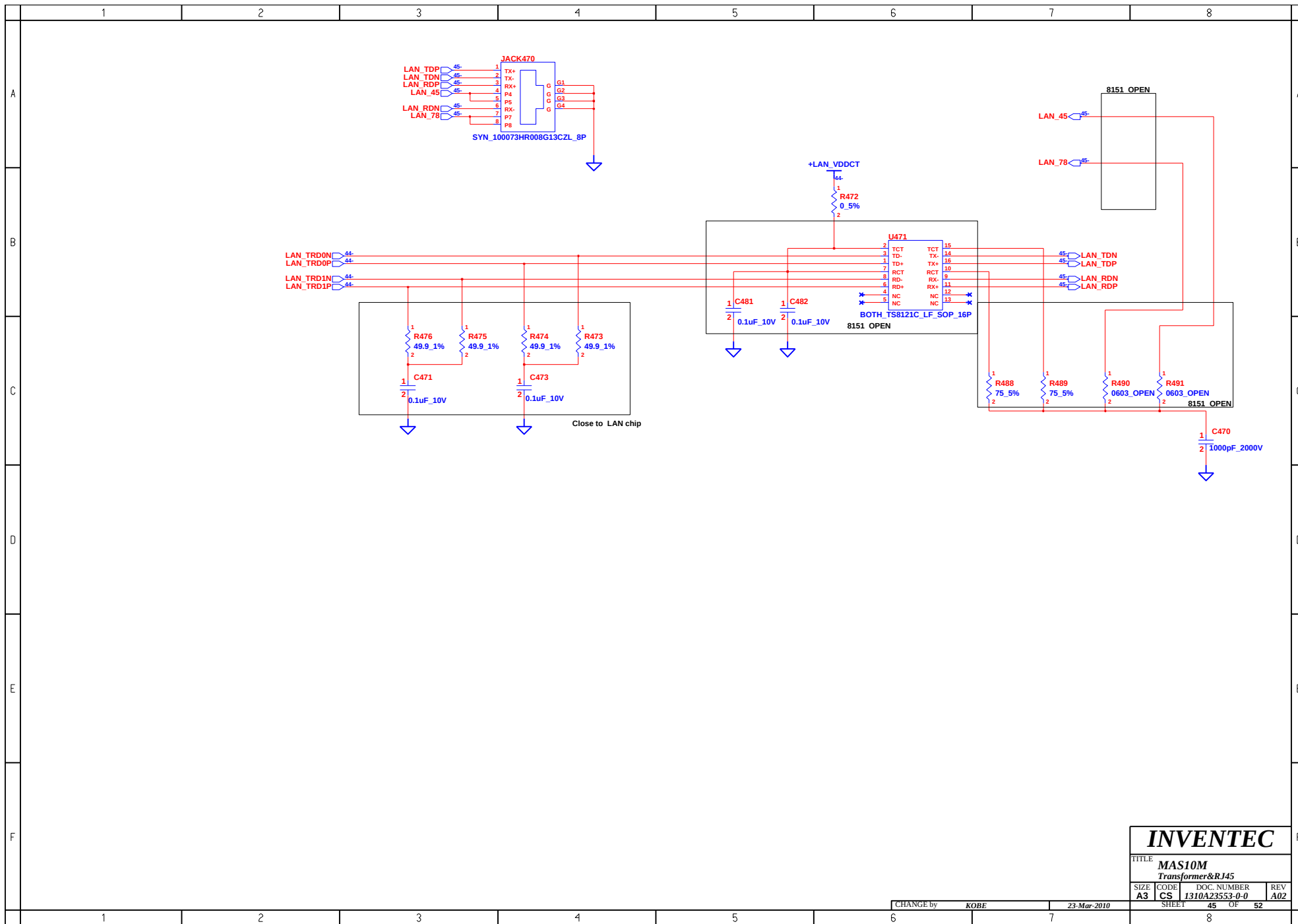
AUDIO JACKS

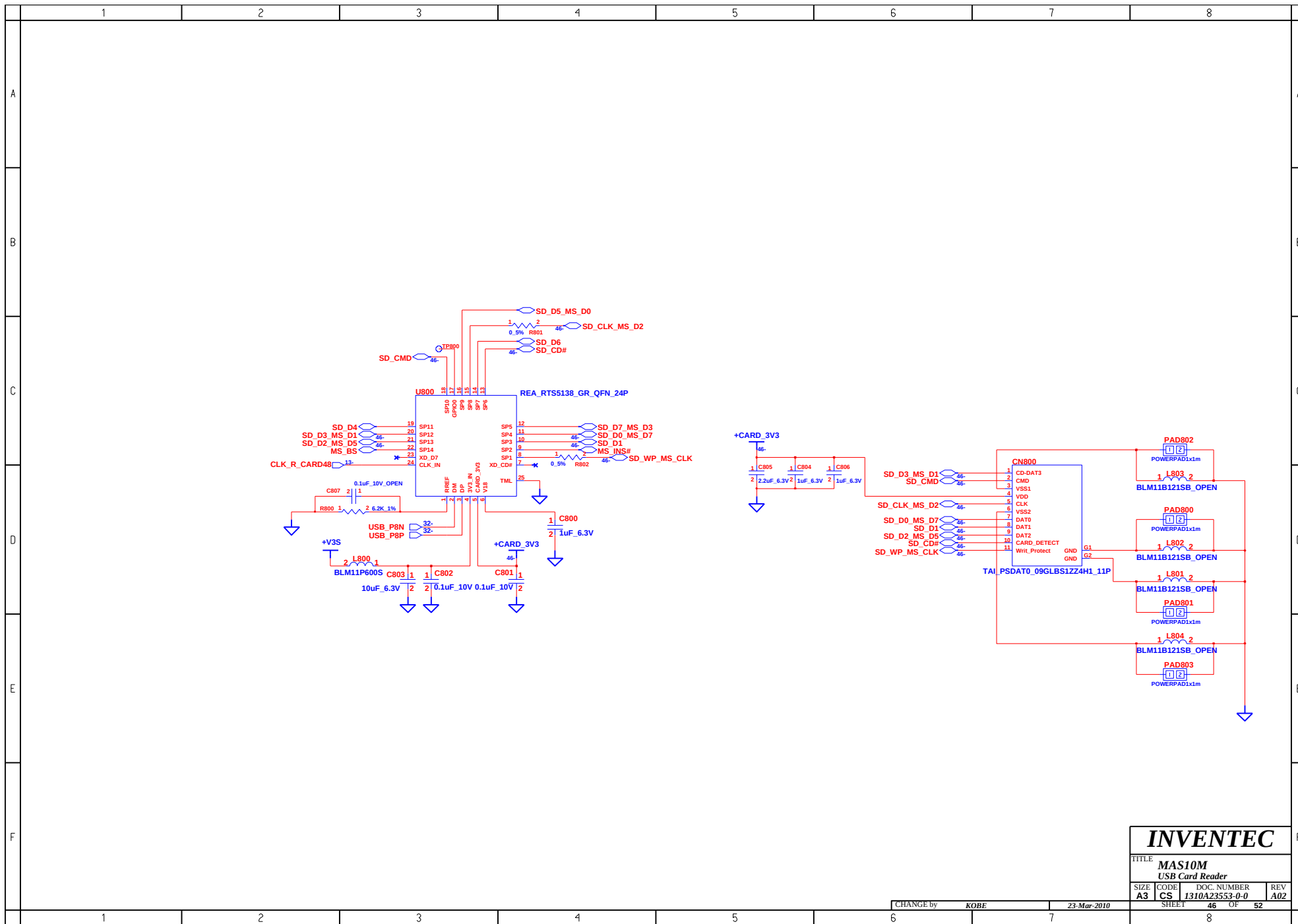


INVENTEC

TITLE			
MAS10M			
Audio AMP&MIC&Speaker			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23553-0-0	A02
SHEET		43	OF 52

CHANGE by KOBE 23-Mar-2010



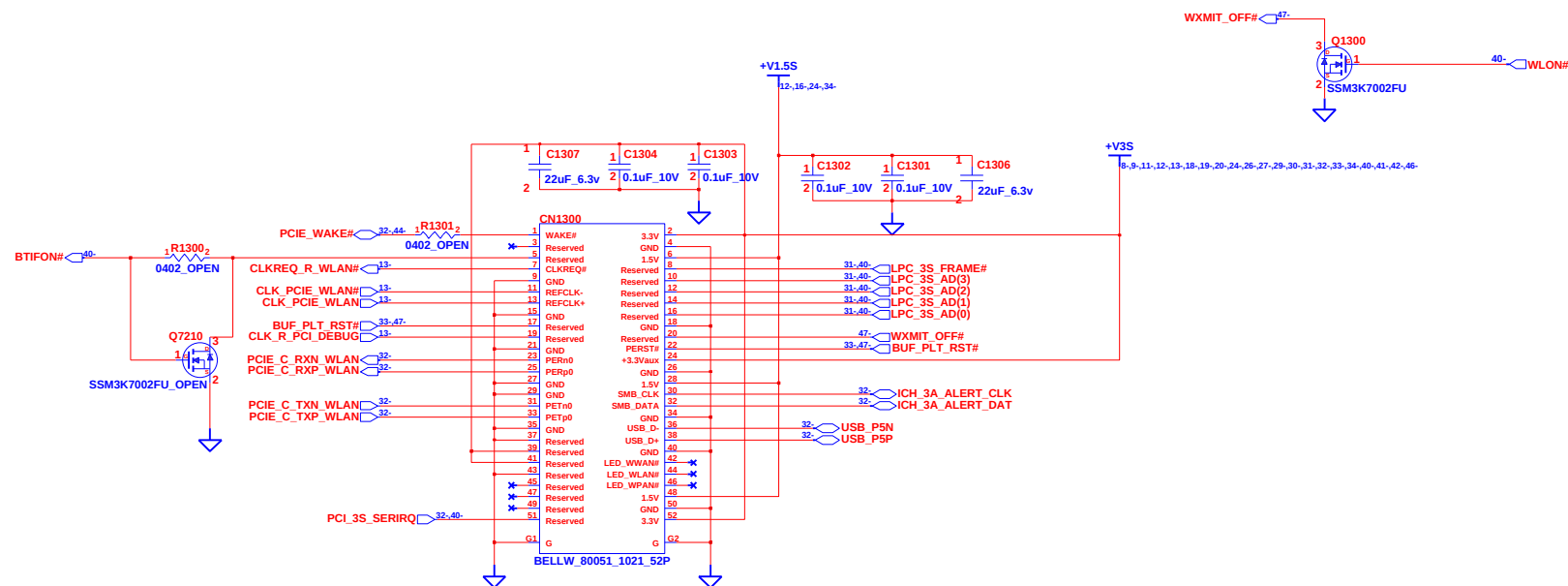


INVENTEC

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

CHANGE by KOBE 23-Mar-2010

Wireless & Debug card

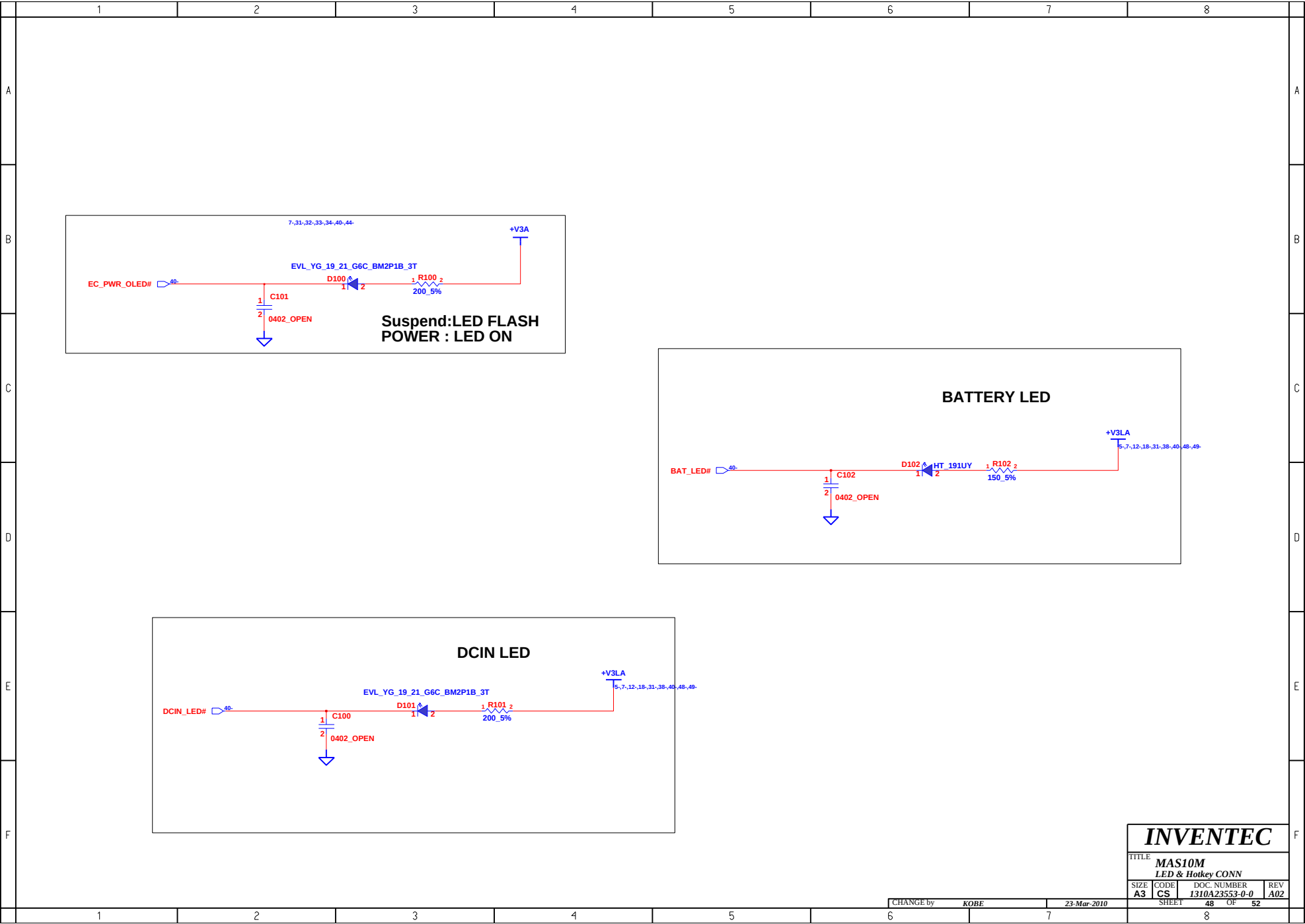


INVENTEC

TITLE			
MAS10M			
Wireless & debug card			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310AZ3553-0-0	A02

CHANGE by KOBE 23-Mar-2010

SHEET 47 OF 52

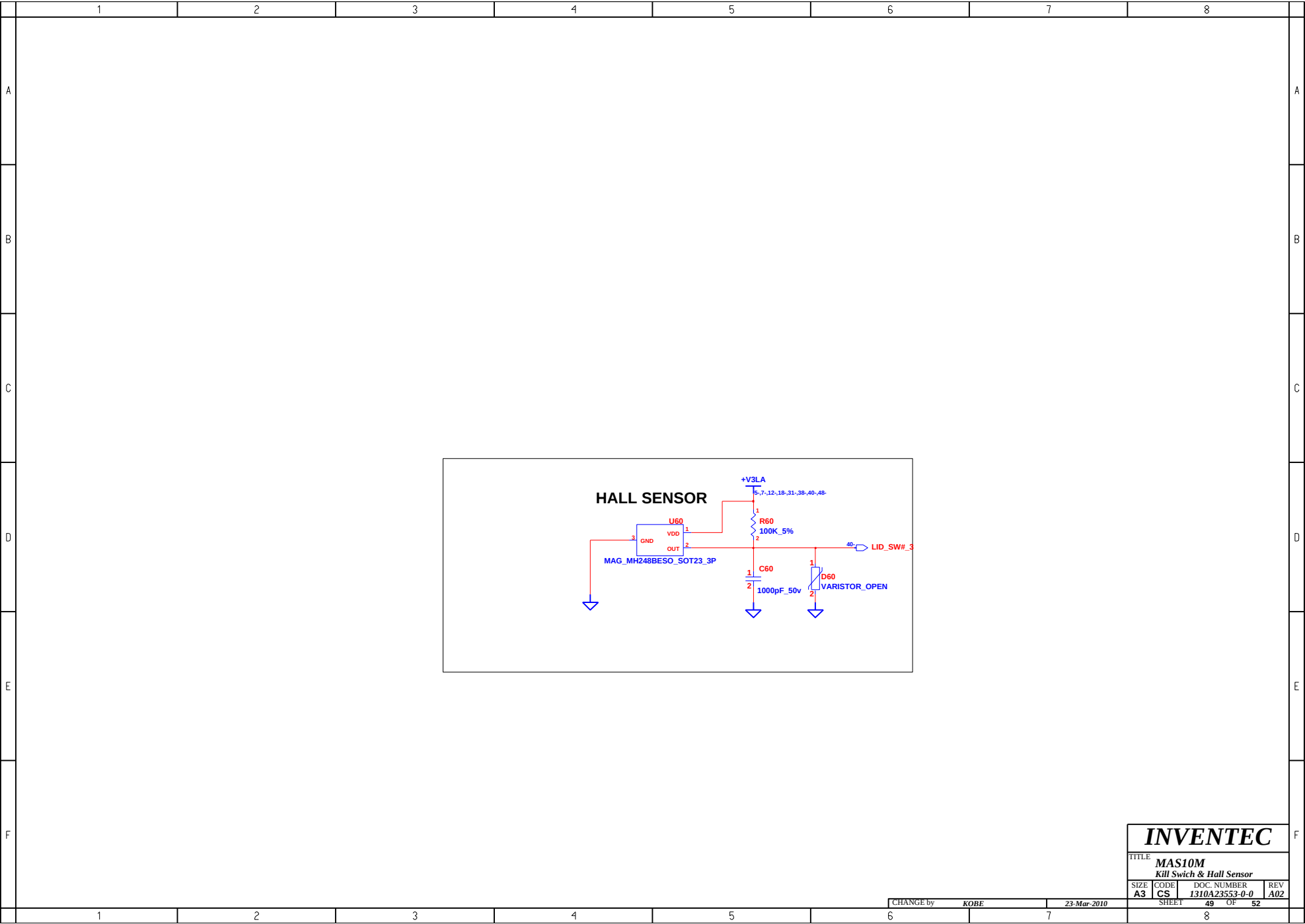


INVENTEC

TITLE
MAS10M
LED & Hotkey CONN

SIZE CODE DOC. NUMBER REV
A3 CS I310AZ3553-0-0 A02

SHEET 48 OF 52

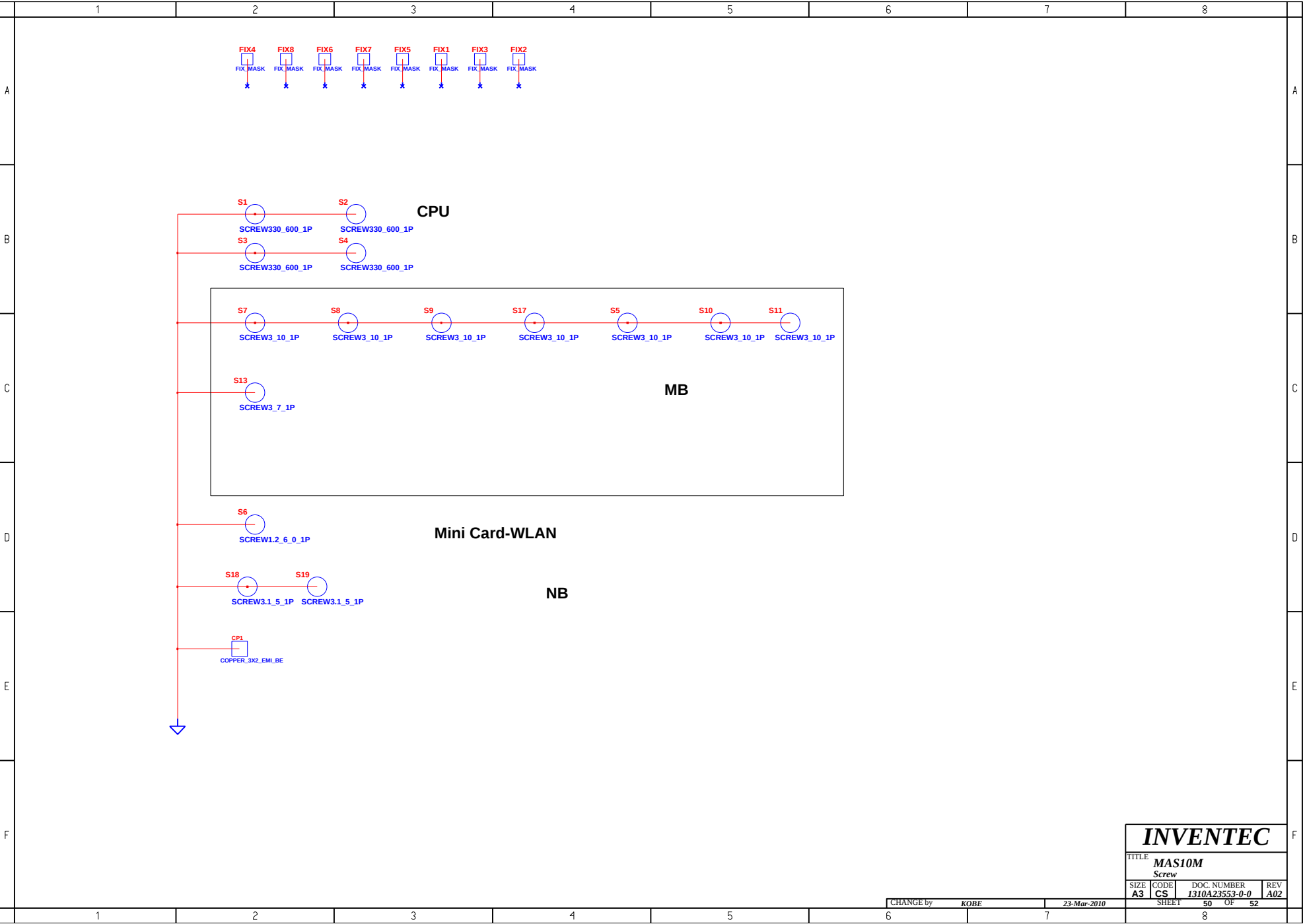


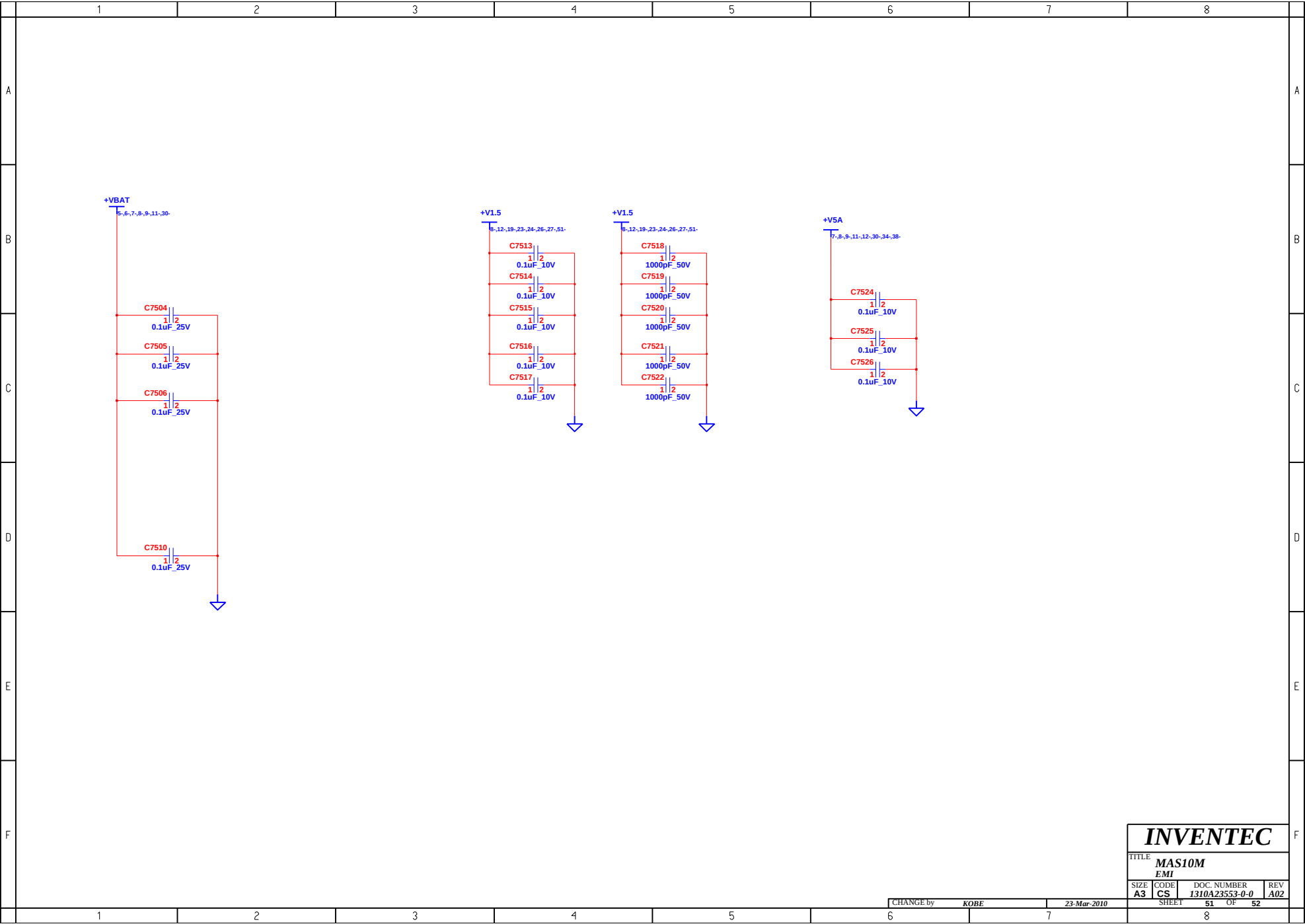
INVENTEC

TITLE
MAS10M
Kill Switch & Hall Sensor

SIZE CODE DOC. NUMBER REV
A3 CS I310AZ3553-0-0 A02

SHEET 49 OF 52



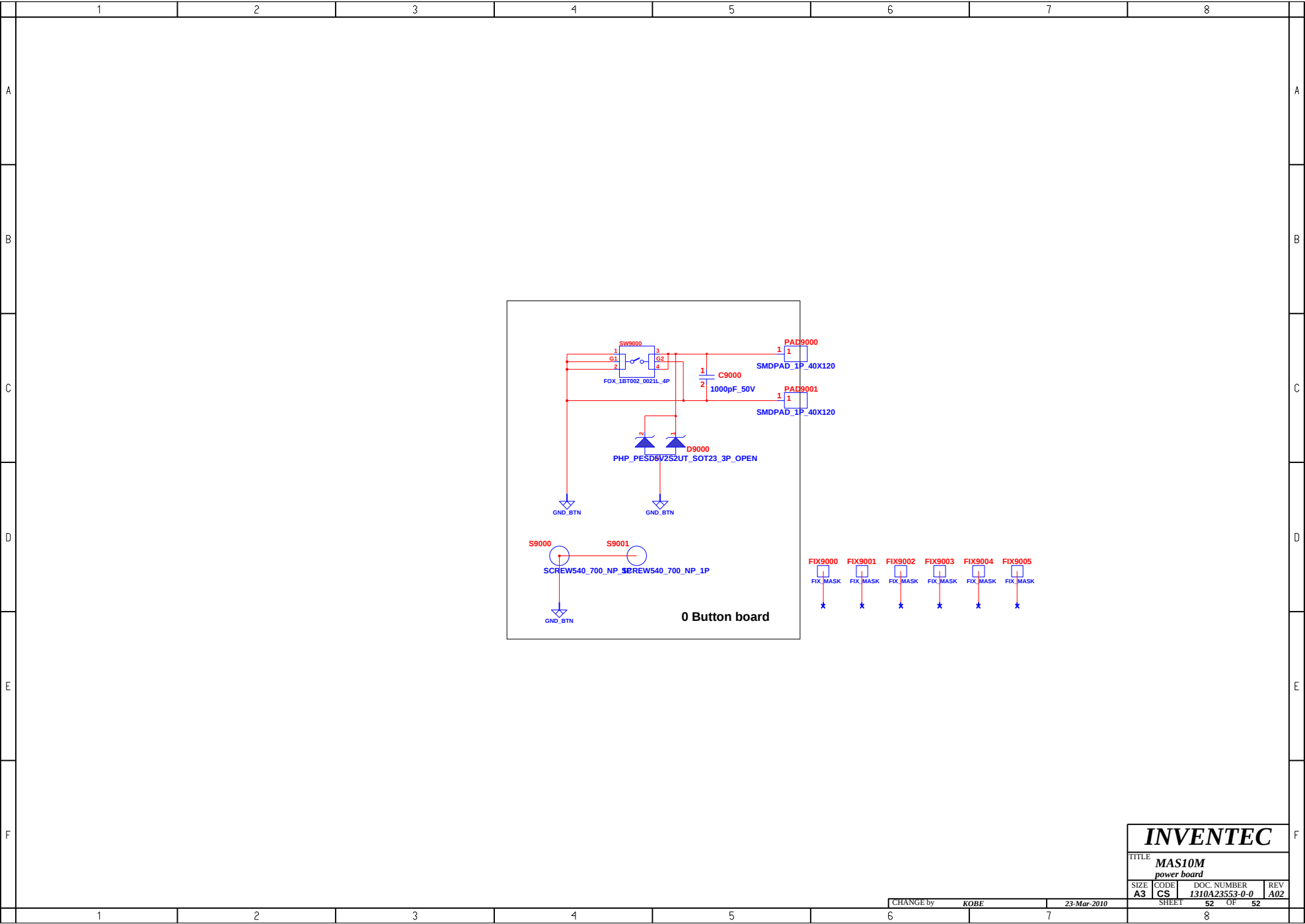


INVENTEC

TITLE			
MAS10M			
EMI			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310AZ3553-0-0	A02

CHANGE by KOBE 23-Mar-2010

SHEET 51 OF 52



INVENTEC

TITLE **MAS10M**
power board

SIZE A3	CODE CS	DOC. NUMBER I310AZ3553-0-0	REV A02
-------------------	-------------------	--------------------------------------	-------------------

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

SHEET **52** OF **52**