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KITTY14I Huron River Platform MV Build(Only UMA) A02 2011/03/23 D500 : NA U9884 NA CN505 : 6026B0184301 CN507 : 6026B0184301 L7076 : NA L7077 : 6014A0013901 L7075 : 6014A0013901 CN7003 : 6012B0381501 } USB 3.0 USB 2.0 <table><tr><td>DRAWER</td><td>EE</td><td>DATE</td><td>DATE</td><td rowspan="4">INVENTEC</td></tr><tr><td>DESIGN</td><td>Chang, Irene</td><td>2010-12-01</td><td>2010-12-01</td></tr><tr><td>CHECK</td><td>Hu, Hook</td><td>2010-12-01</td><td></td></tr><tr><td></td><td>Hu, Hook</td><td></td><td></td></tr><tr><td colspan="4">RESPONSIBLE</td><td colspan="2">TITLE</td></tr><tr><td colspan="4">SIZE</td><td colspan="2">KITTY</td></tr><tr><td colspan="4">FILE NAME : KITTY-6050A2424501-A01-2010-12-01</td><td colspan="2">Project Name</td></tr><tr><td colspan="4">VER :</td><td colspan="2">REV</td></tr><tr><td colspan="4">SIZE</td><td colspan="2">SHEET</td></tr><tr><td colspan="4">A3</td><td colspan="2">CS</td></tr><tr><td colspan="4">1310A24245-0-MTR</td><td colspan="2">A</td></tr><tr><td colspan="4">2</td><td colspan="2">OF 51</td></tr></table>										DRAWER	EE	DATE	DATE	INVENTEC	DESIGN	Chang, Irene	2010-12-01	2010-12-01	CHECK	Hu, Hook	2010-12-01			Hu, Hook			RESPONSIBLE				TITLE		SIZE				KITTY		FILE NAME : KITTY-6050A2424501-A01-2010-12-01				Project Name		VER :				REV		SIZE				SHEET		A3				CS		1310A24245-0-MTR				A		2				OF 51	
DRAWER	EE	DATE	DATE	INVENTEC																																																																						
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05. Power On sequence
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07. Battery CONN
08. +V3A & +V5A
09. +V1.5 & +V0.75
10. +V1.8S & +VCCSA
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12. +VCC_CORE & +VGFX_CORE
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15. SLG3NB_CLK GEN
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20. CPU-5 (GRAPHICS POWER)
21. CPU-6 (GND)
22. Thermal HW , Fan
23. DDR3-1
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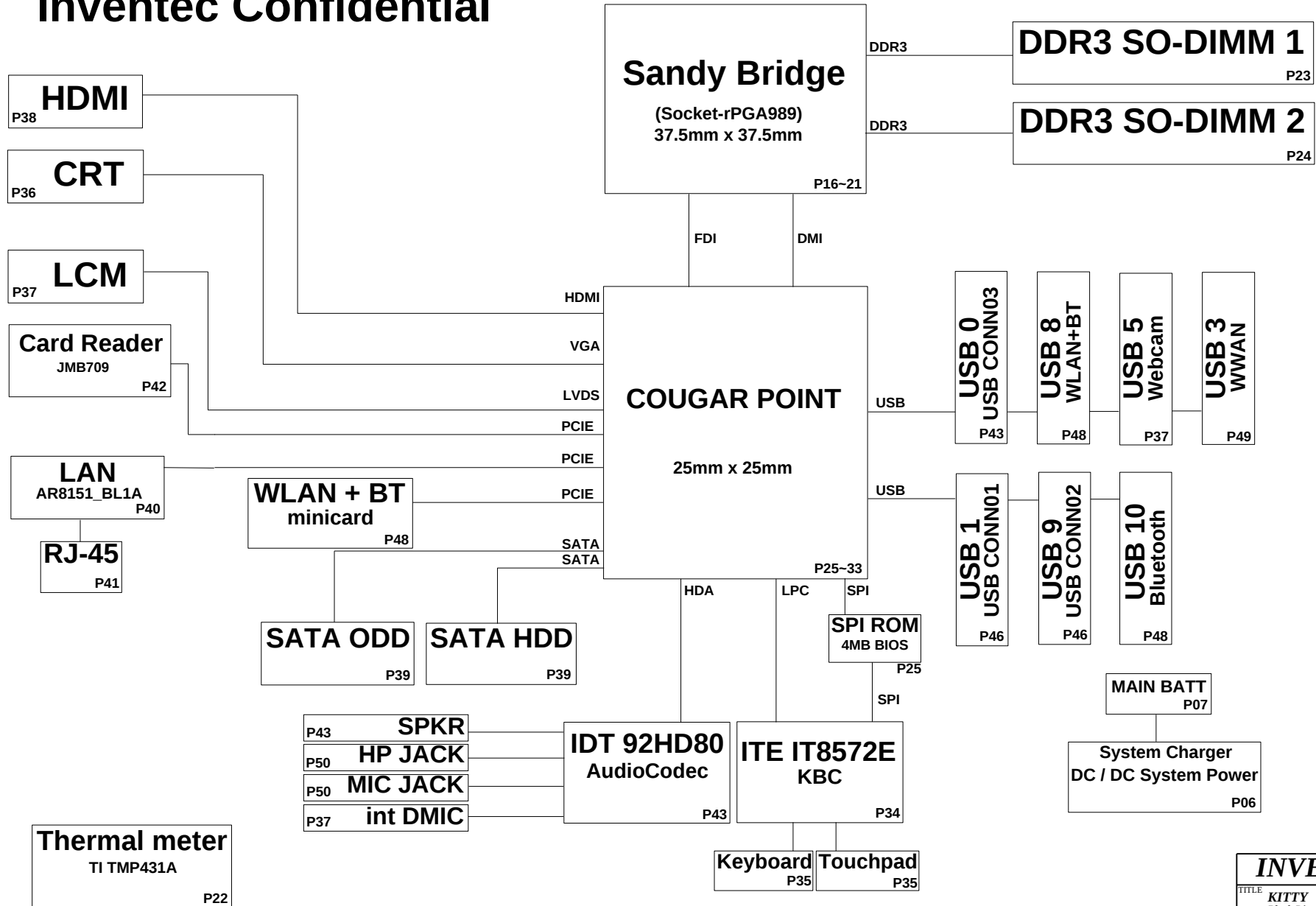
25. PCH-1 (HDA, JTAG, SPI, SATA)
26. PCH-2 (PCI-E, SMBUS, CLK)
27. PCH-3 (DMI, FDI, GPIO)
28. PCH-4 (LVDS, DDI)
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30. PCH-6 (GPIO, VSS_NTFC, RSVD)
31. PCH-7 (POWER)
32. PCH-8 (POWER)
33. PCH-9 (GND)
34. KBC ITE8752
35. Keyboard & TouchPad & LED
36. CRT CONN
37. LCM & eDP CONN
38. HDMI CONN
39. SATA HDD & ODD ; PBN CONN
40. LAN
41. RJ-45
42. Card Reader
43. Audio Codec
44. BLANK
45. USB3.0 IC
46. USB3.0 CONN
47. SCREW& EMI
48. WLAN & BlueTooth
49. WWAN & SIM
50. USB & HP JACK & MIC JACK (DB)
51. Power & Pick button BOARD(DB)

INVENTEC

TITLE KITTY <i>Index</i>			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
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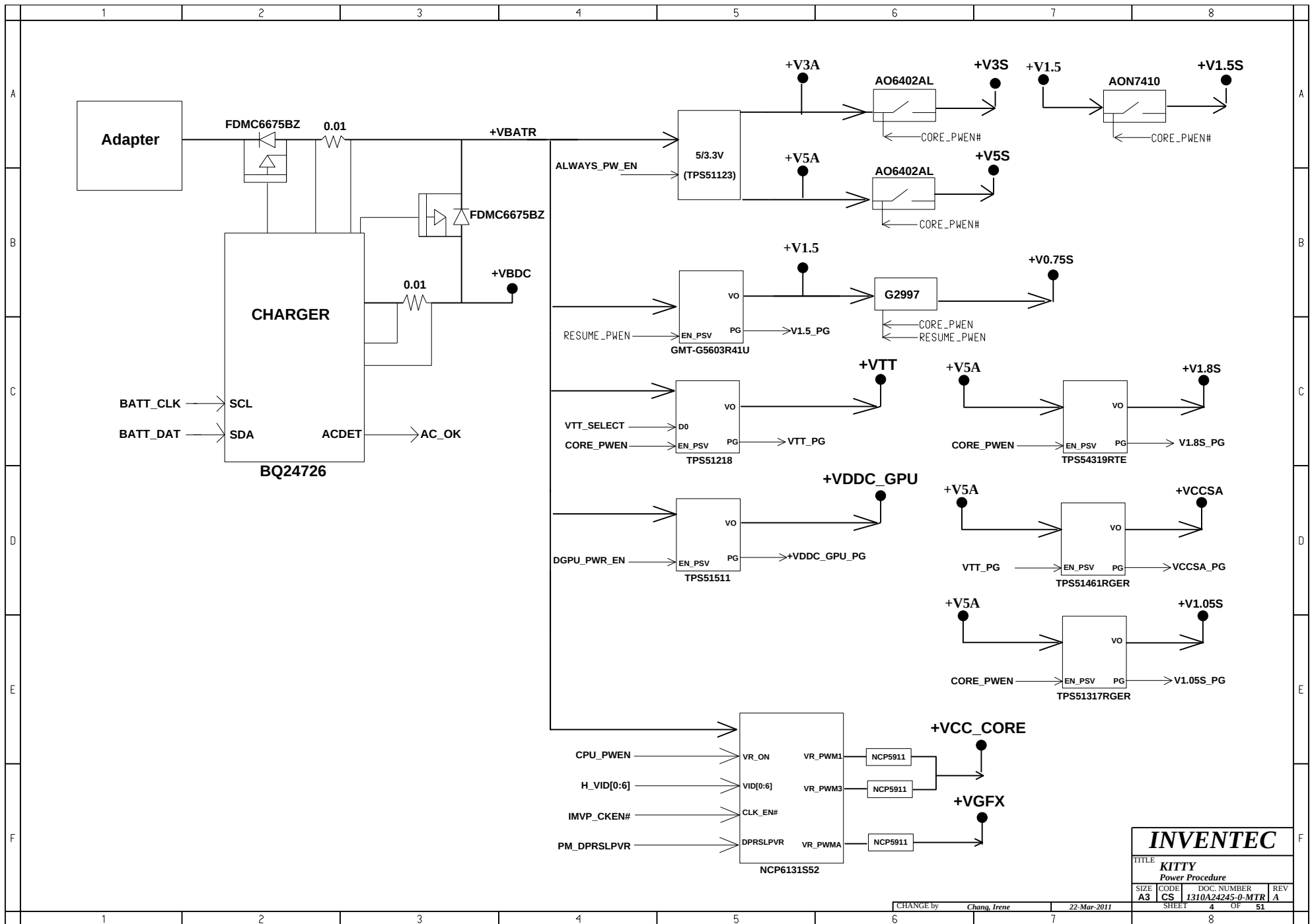
CHANGE by *Chang, Irene* 22-Mar-2011

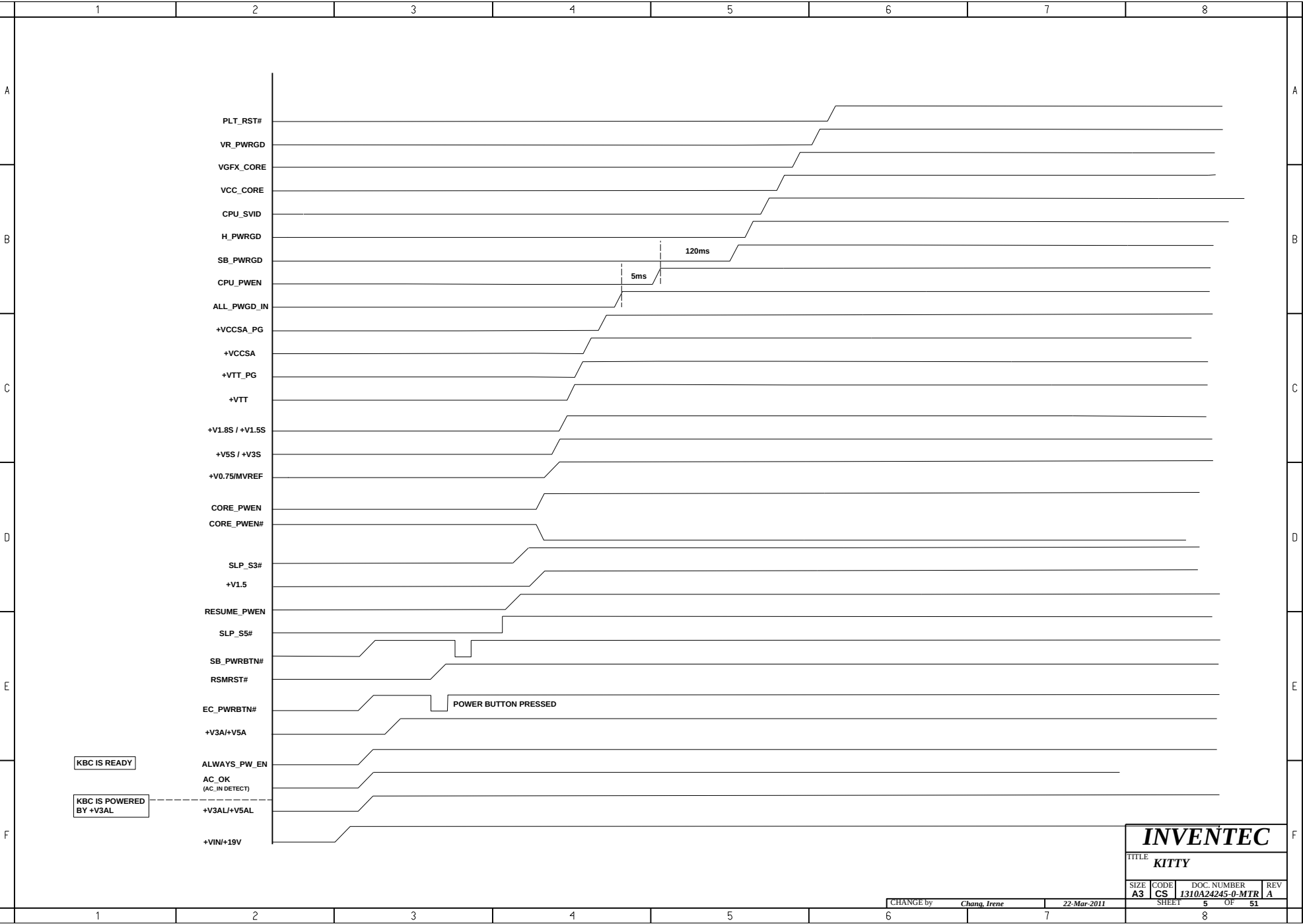
Inventec Confidential



INVENTEC

TITLE KITTY Block Diagram			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
CHANGE by Chang, Irene		22-Mar-2011	
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INVENTEC

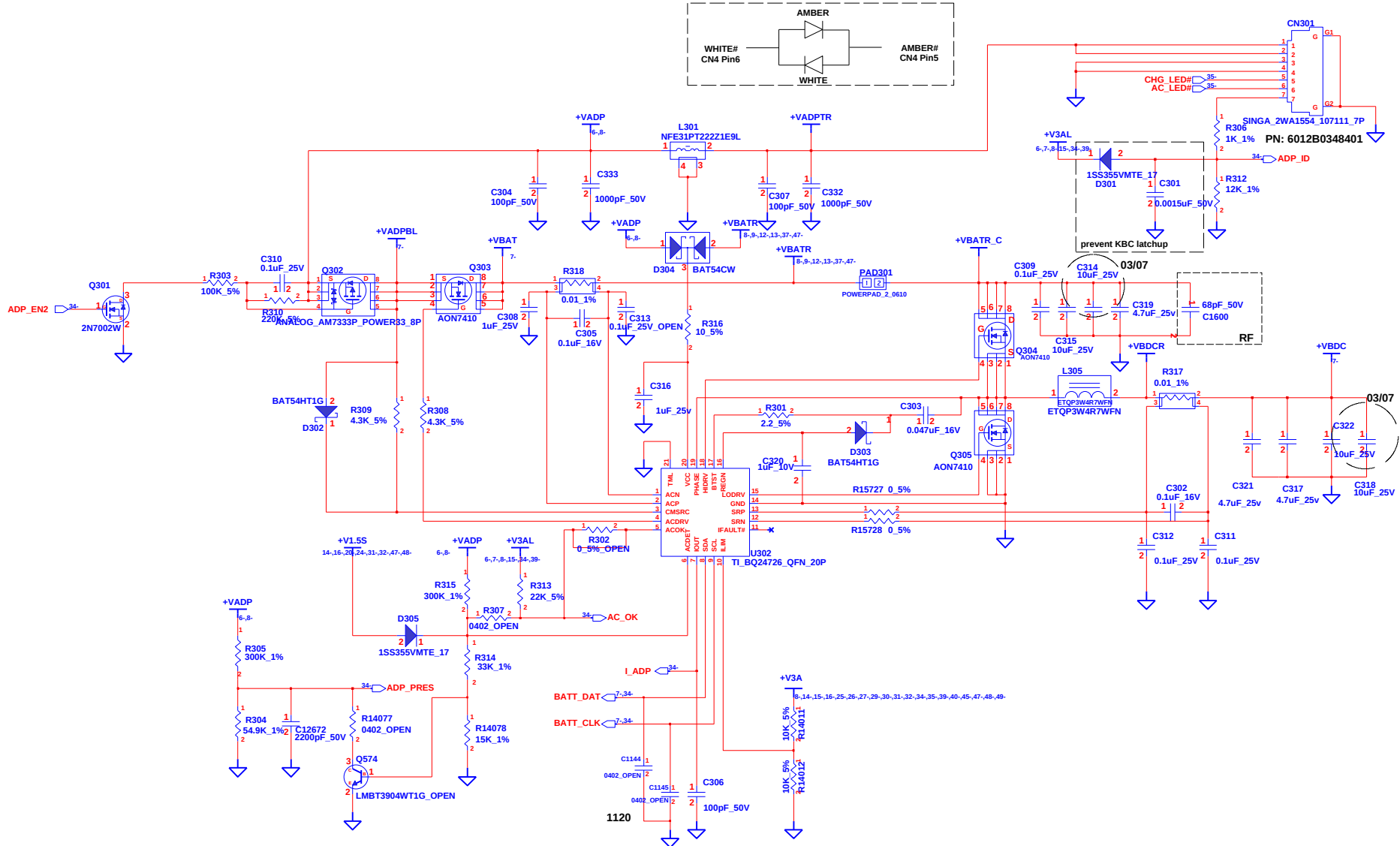
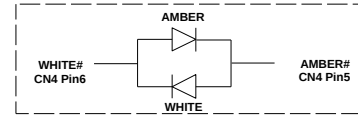
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SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24245-0-MTR	A

CHANGE by *Chang, Irene* 22-Mar-2011

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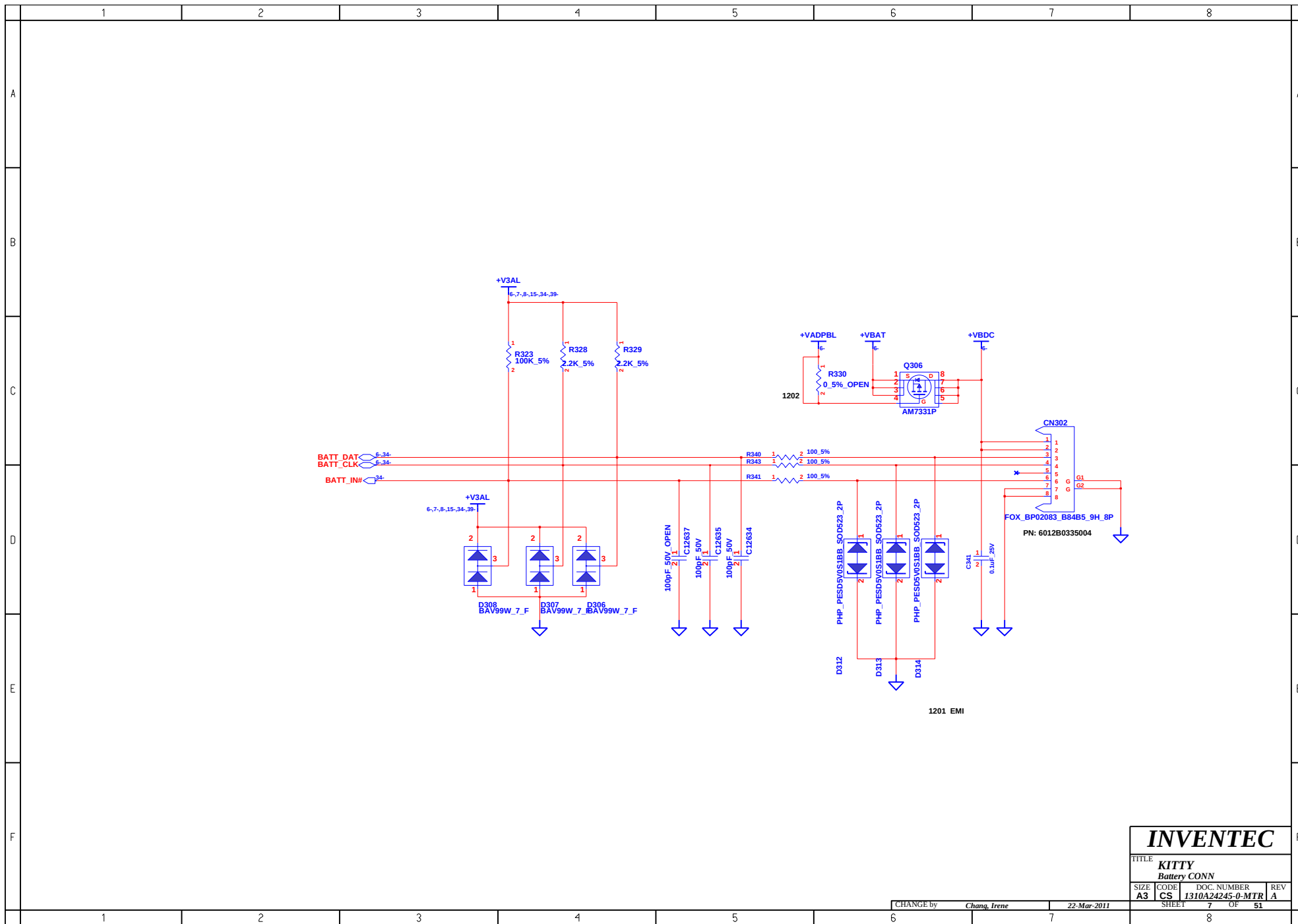
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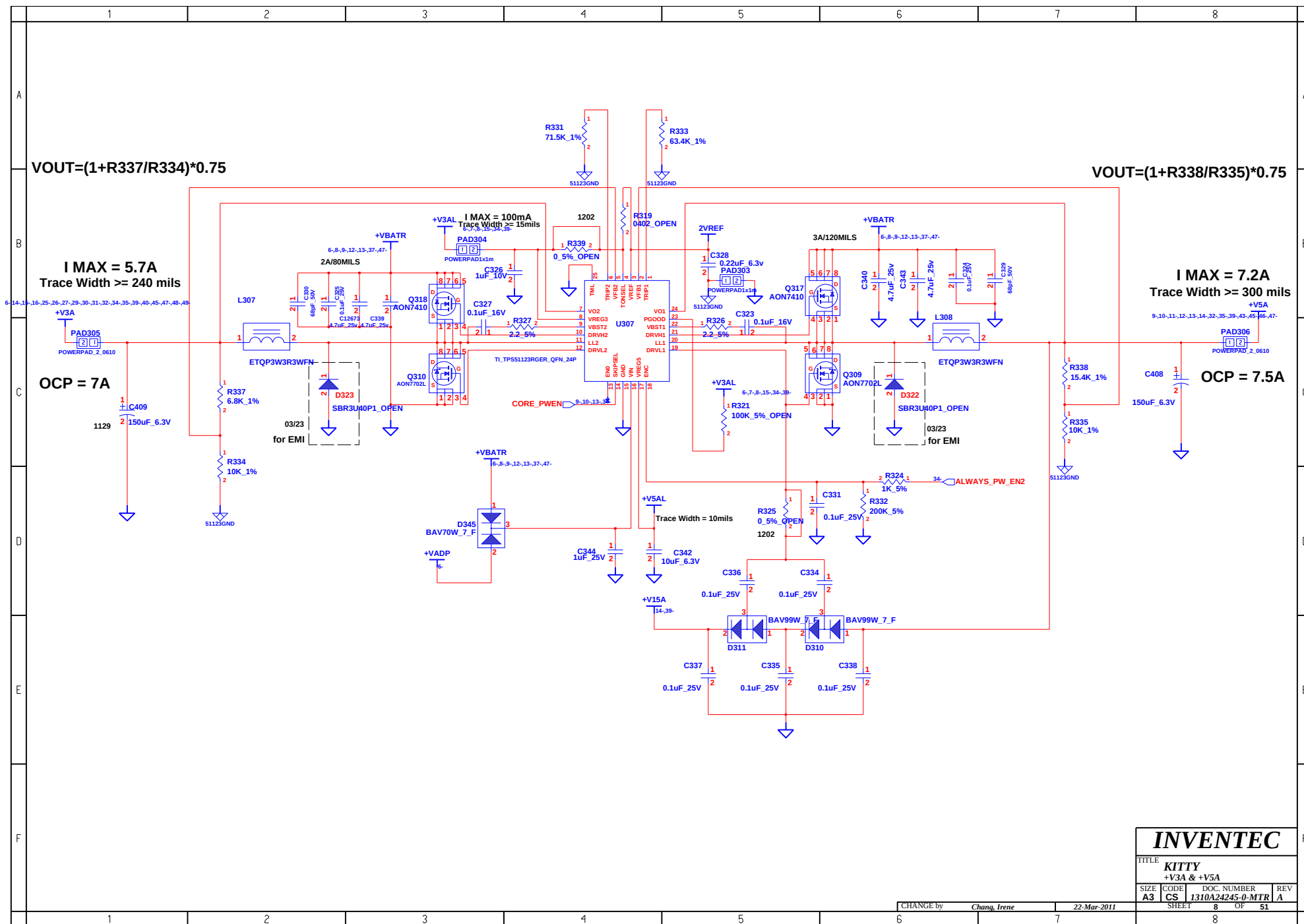
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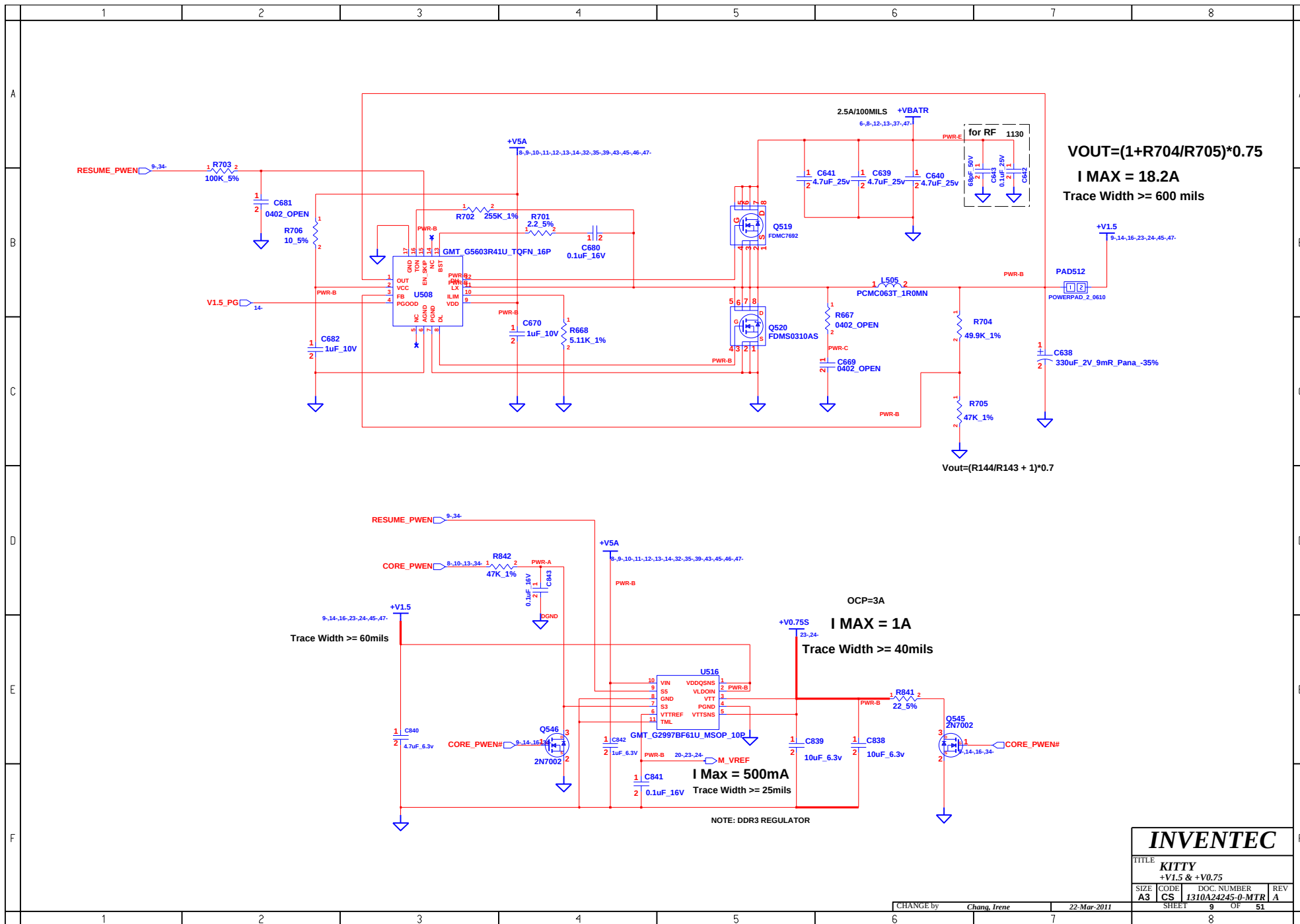
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KITTY			
DC & Battery Charger			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24245-0-MTR	A
SHEET		6	OF 51

CHANGE by Chang, Irene 22-Mar-2011



INVENTEC			
TITLE KITTY Battery CONN			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
CHANGE by Chang, Irene		22-Mar-2011	
SHEET 7		OF 51	

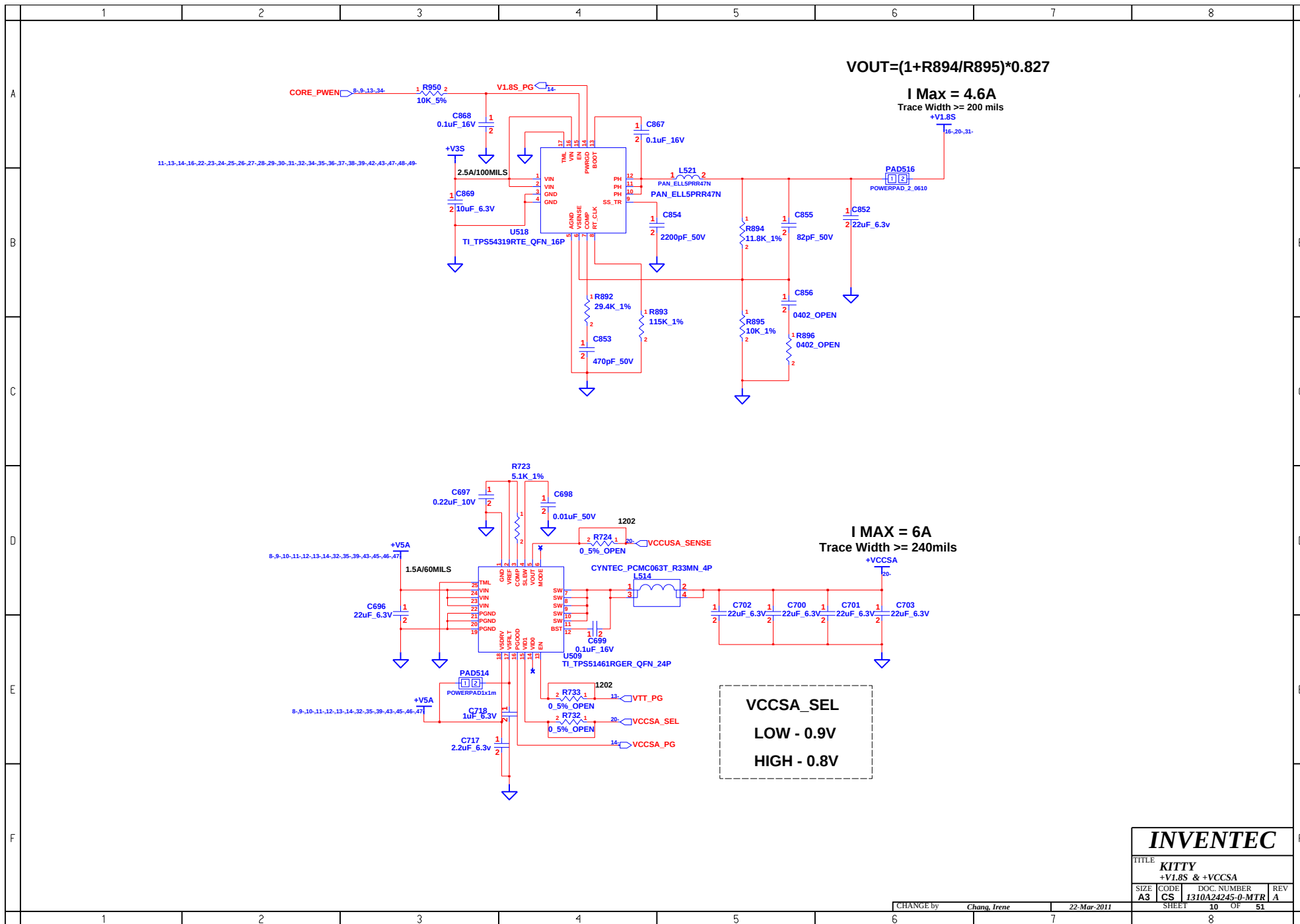


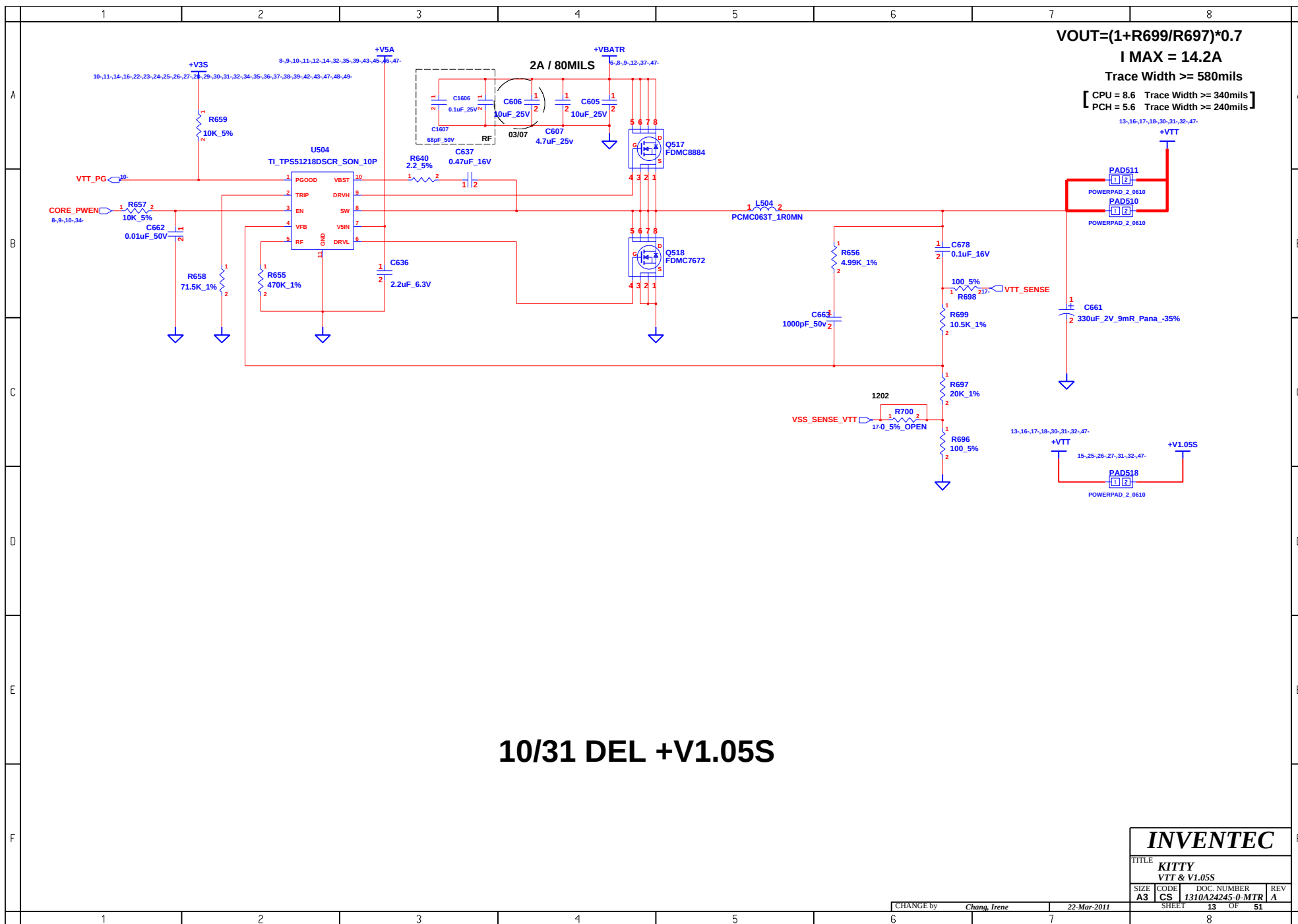


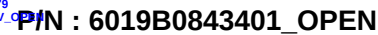
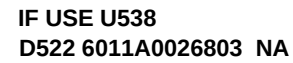
INVENTEC

TITLE			
KITTY			
+V1.5 & +V0.75			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24245-0-MTR	A
SHEET		9	OF 51

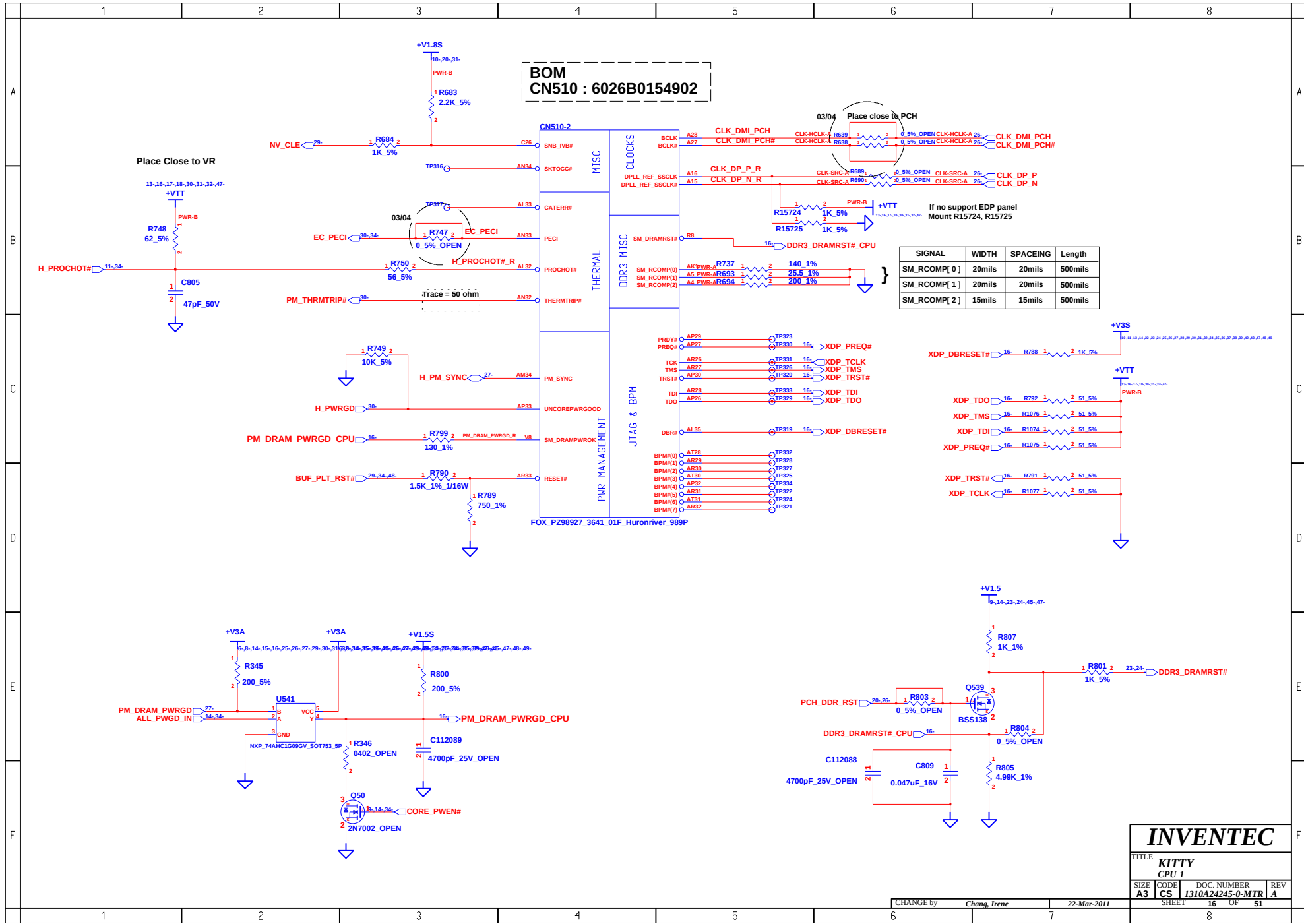
CHANGE by Chang, Irene 22-Mar-2011







TITLE			
KITTY BLANK			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24245-0-MTR	A
SHEET		15	OF 51



BOM
CN510 : 6026B0154902

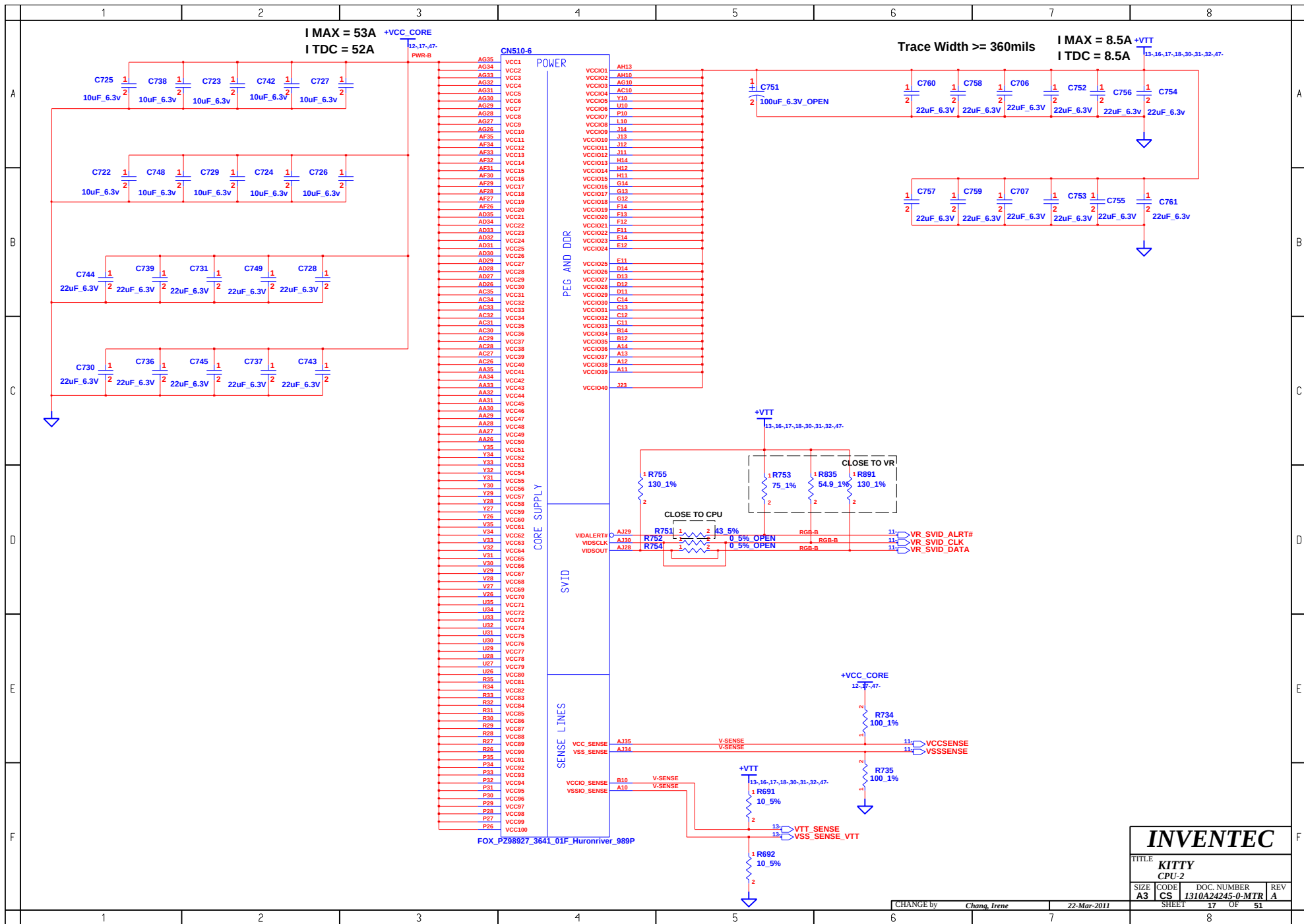
SIGNAL	WIDTH	SPACEING	Length
SM_RCOMP[0]	20mils	20mils	500mils
SM_RCOMP[1]	20mils	20mils	500mils
SM_RCOMP[2]	15mils	15mils	500mils

INVENTEC

TITLE KITTY CPU-1			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A

CHANGE by Chang, Irene 22-Mar-2011

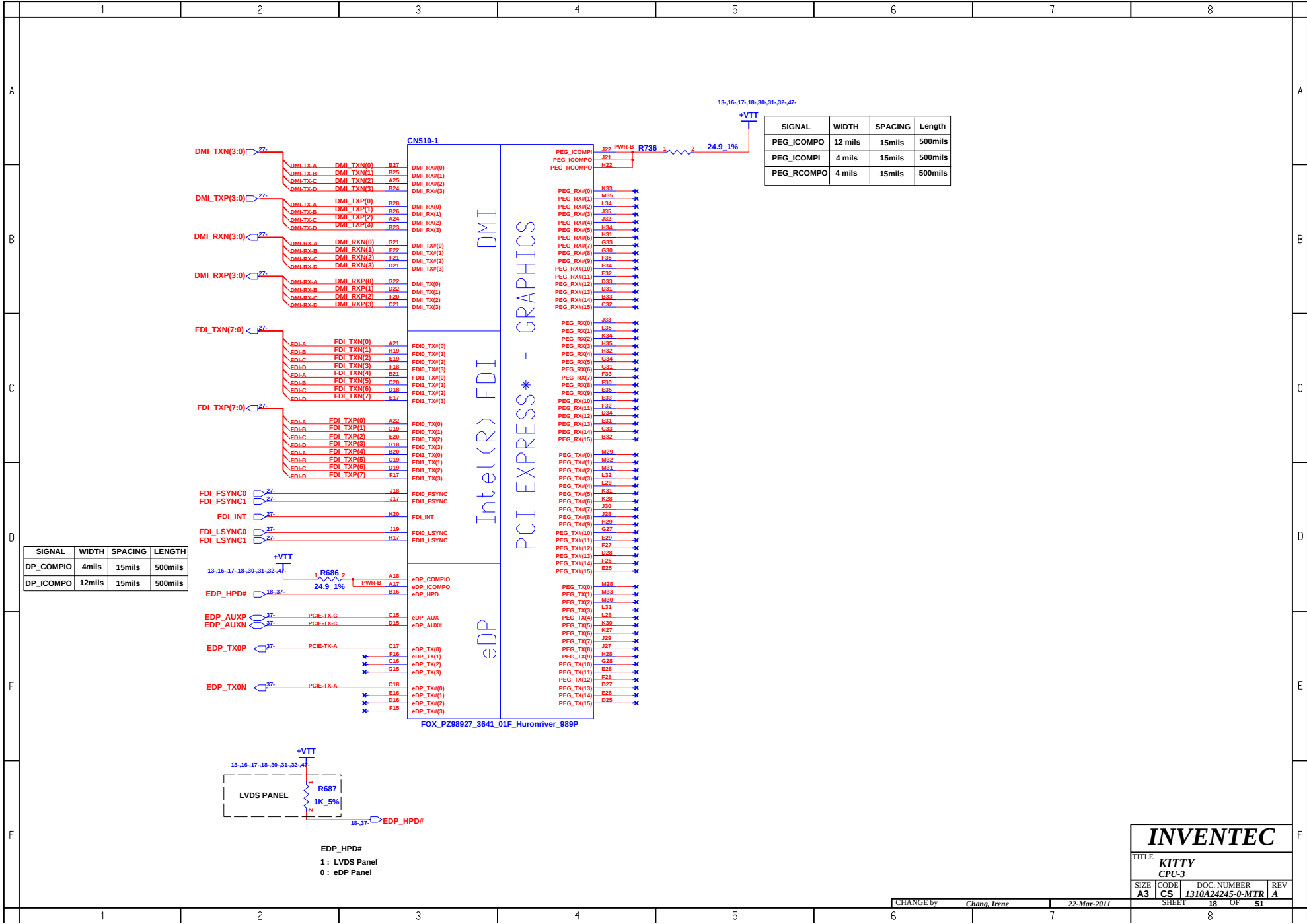
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INVENTEC

TITLE KITTY CPU-2			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
SHEET 17		OF 51	

CHANGE by *Chang, Irene* 22-Mar-2011

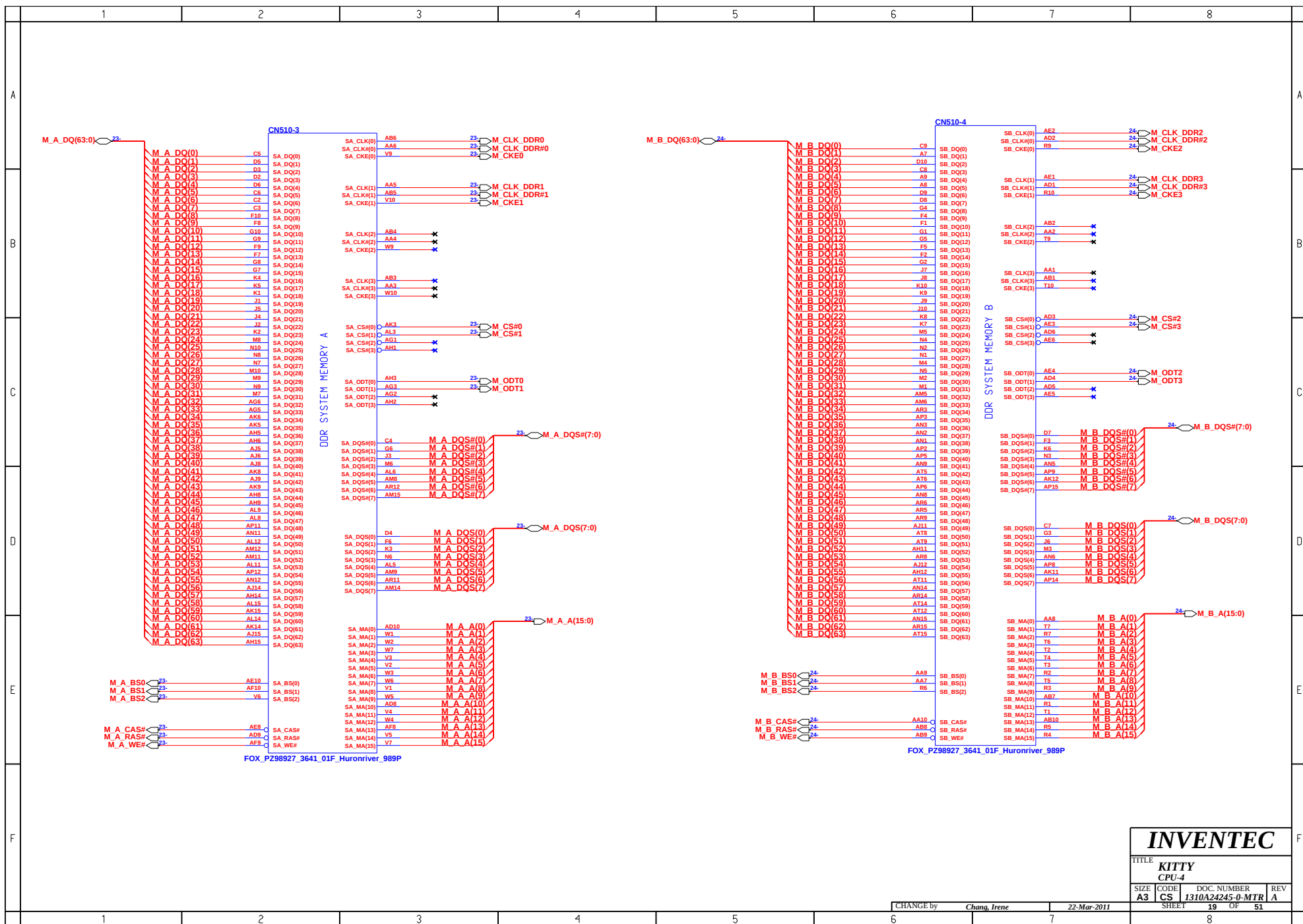


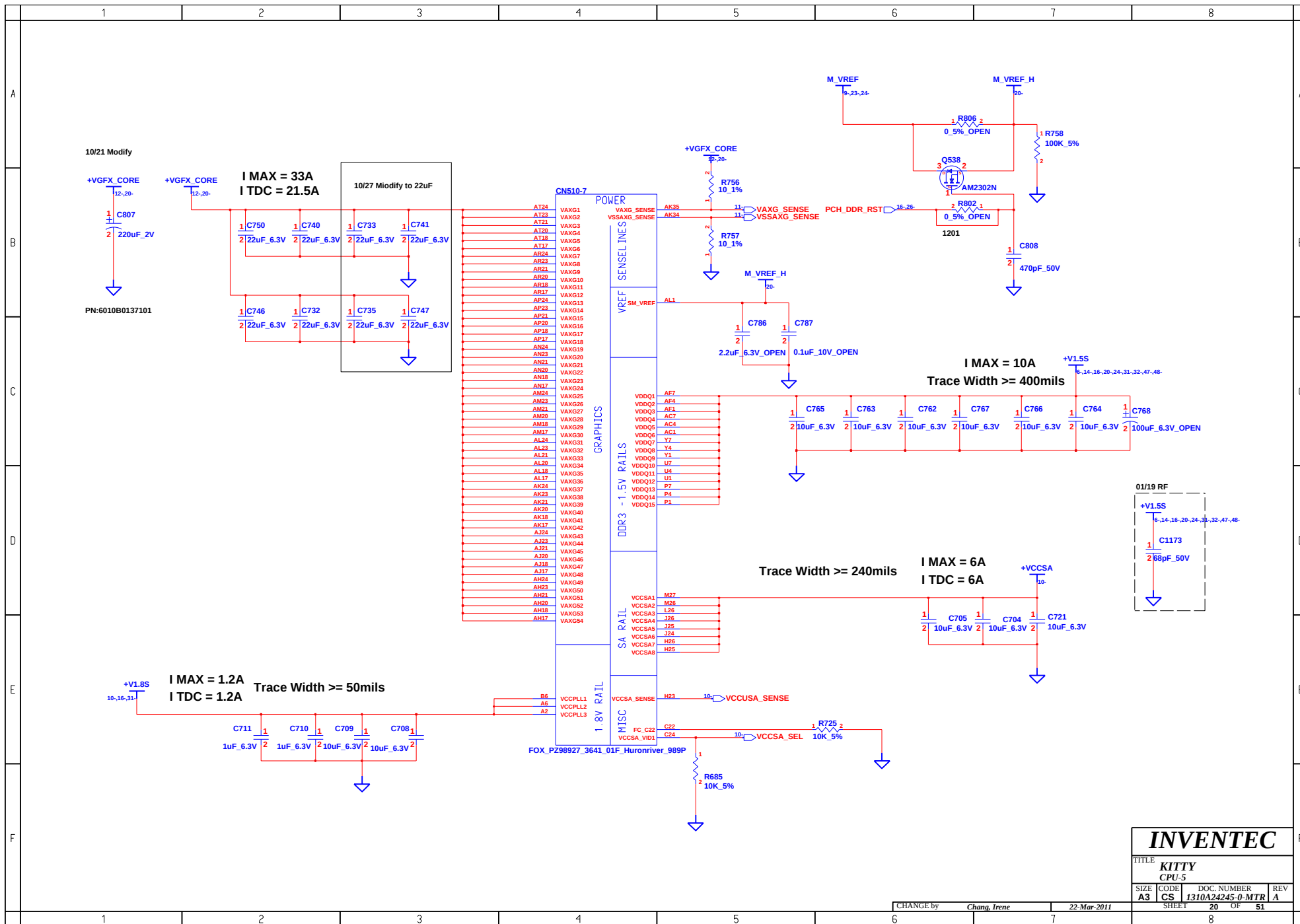
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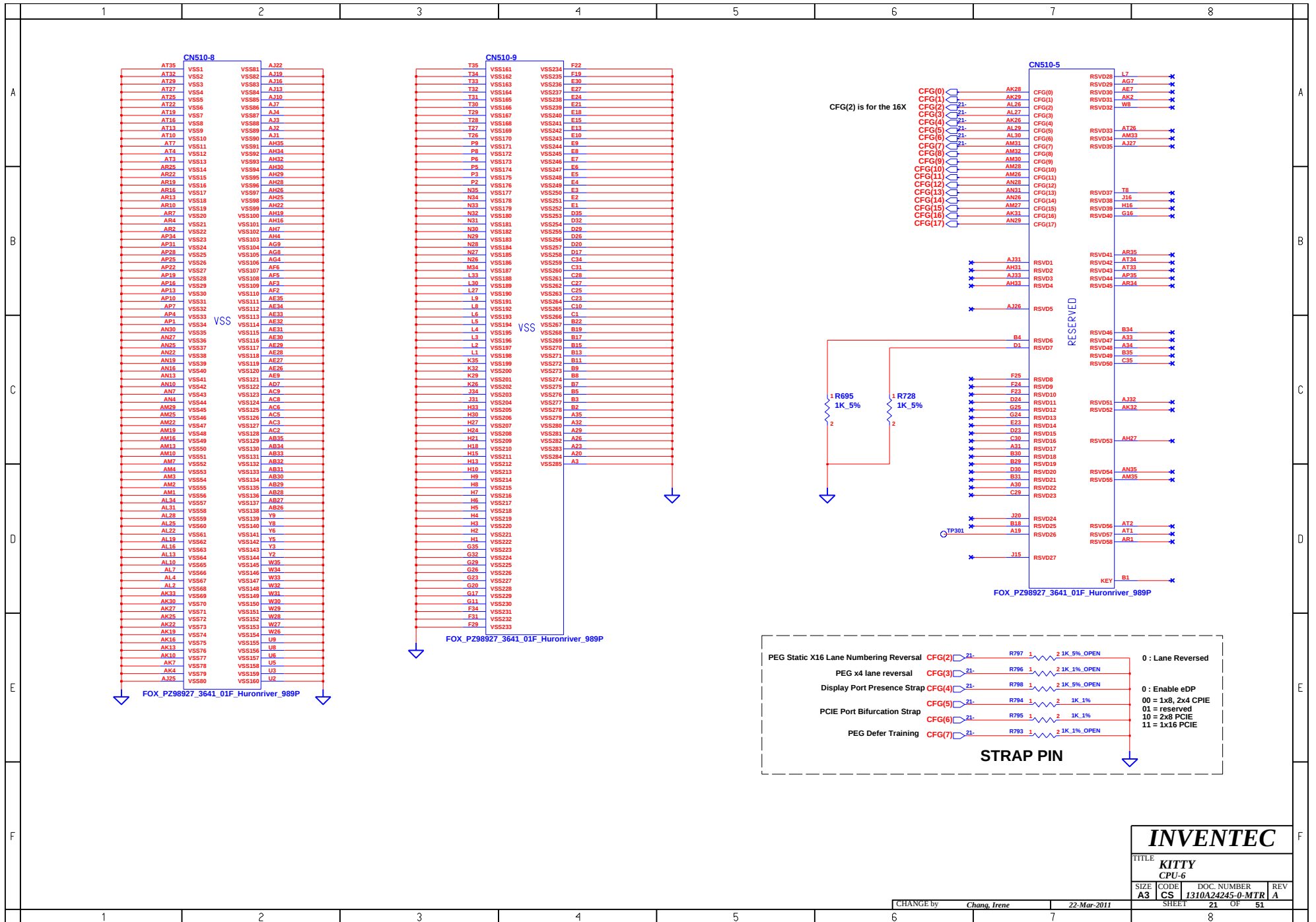
TITLE			
KITTY			
CPU-3			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24245-0-MTR	A

CHANGE by Chang, Irene 22-Mar-2011

SHEET 18 OF 51

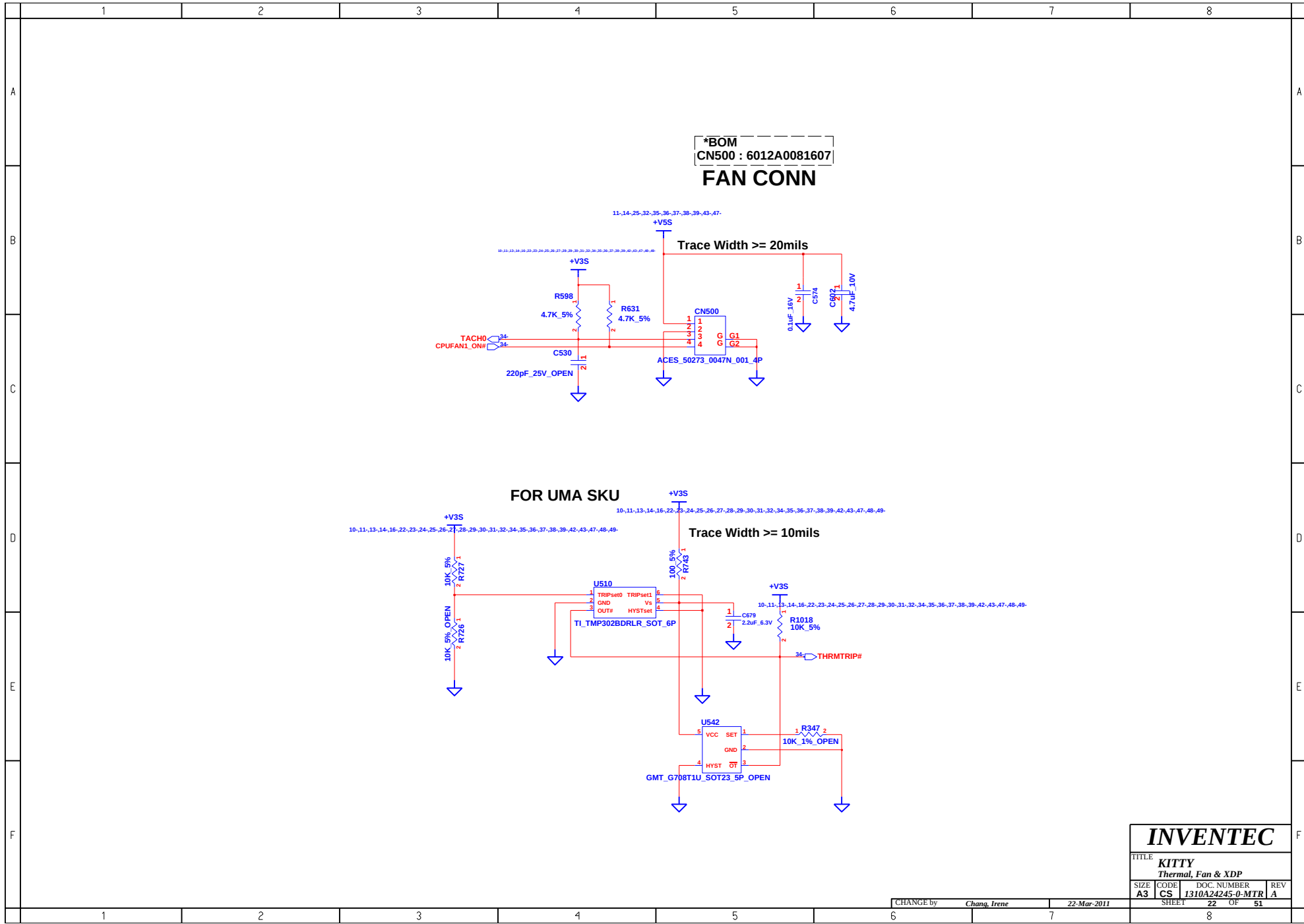






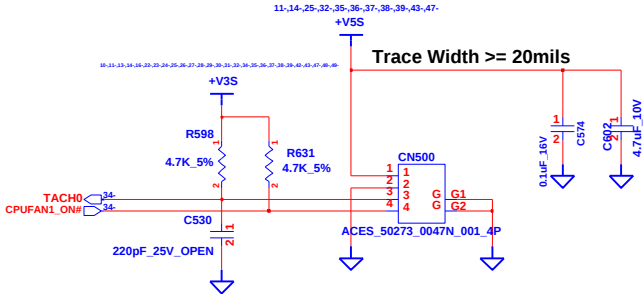
INVENTEC

TITLE			
KITTY CPU-6			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24245-0-MTR	A
SHEET		21	OF 51

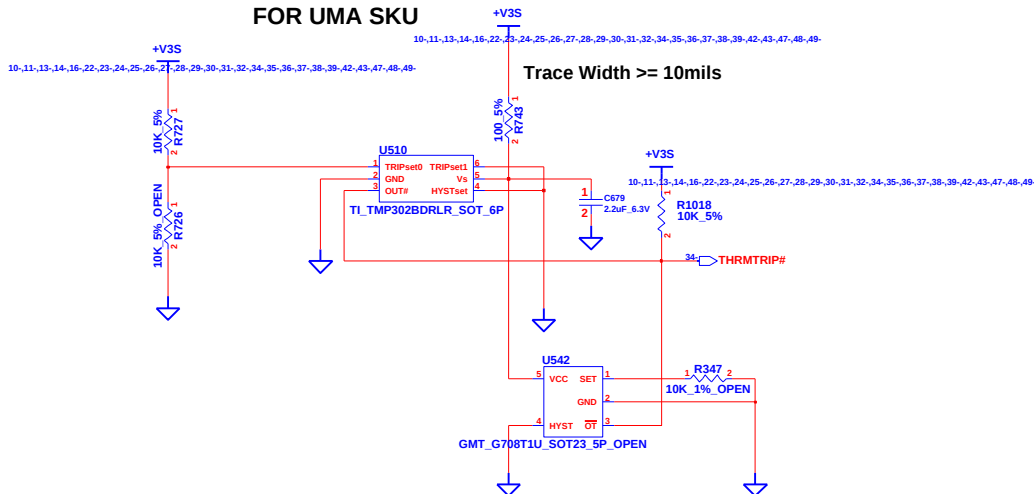


*BOM
CN500 : 6012A0081607

FAN CONN



FOR UMA SKU

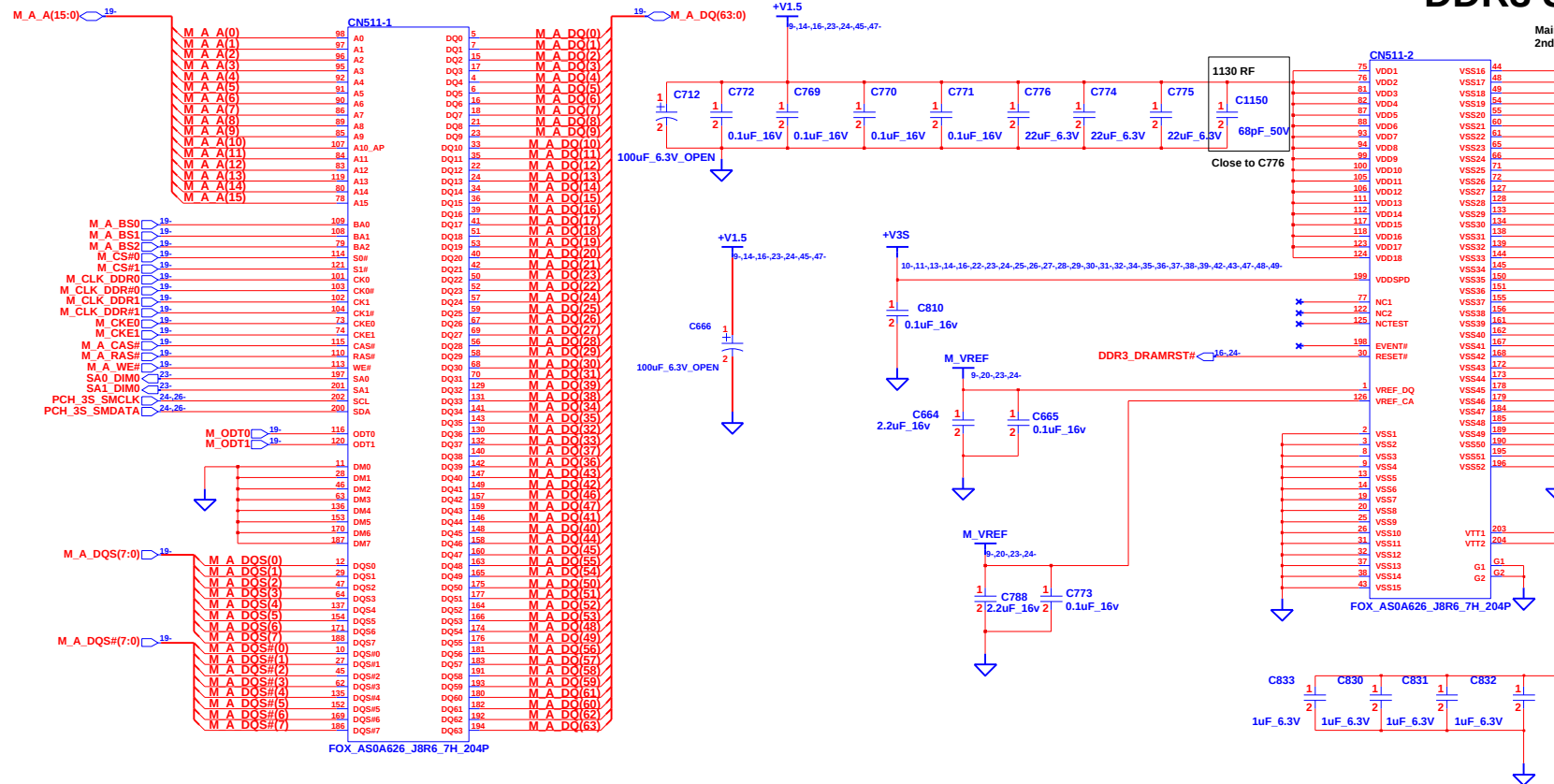


INVENTEC

TITLE KITTY Thermal, Fan & XDP			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
CHANGE by Chang, Irene		22-Mar-2011	
SHEET 22		OF 51	

DDR3 SO-DIMM 1

Main : 6026B0179601
2nd : 6026B0157609

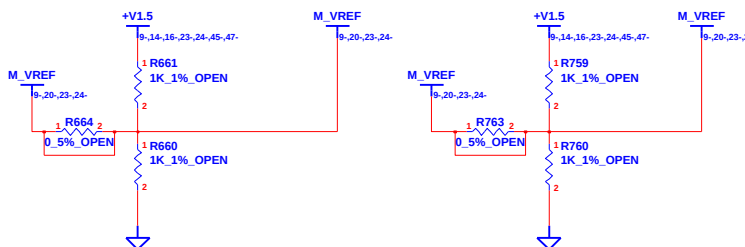


NOTE:

IF SA0_DIM0=0, SA1_DIM0=0
SO-DIMMA SPD ADDRESS IS 0xA0
SO-DIMMA TS ADDRESS IS 0x30

IF SA0_DIM0=1, SA1_DIM0=0
SO-DIMMA SPD ADDRESS IS 0xA2
SO-DIMMA TS ADDRESS IS 0x32

For SVTP test used.



INVENTEC

TITLE KITTY DDR3-1			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
CHANGE by Chang, Irene		22-Mar-2011	
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DDR3 SO-DIMM 2

CN1005 (lower) : 6026B0121102
*BOM

Layout Note: Place
these Caps near
SO-DIMM1 power pin

Place these caps
close to VTT1 and
VTT2

Place these caps
close to VTT1 and
VTT2

For SVTP used

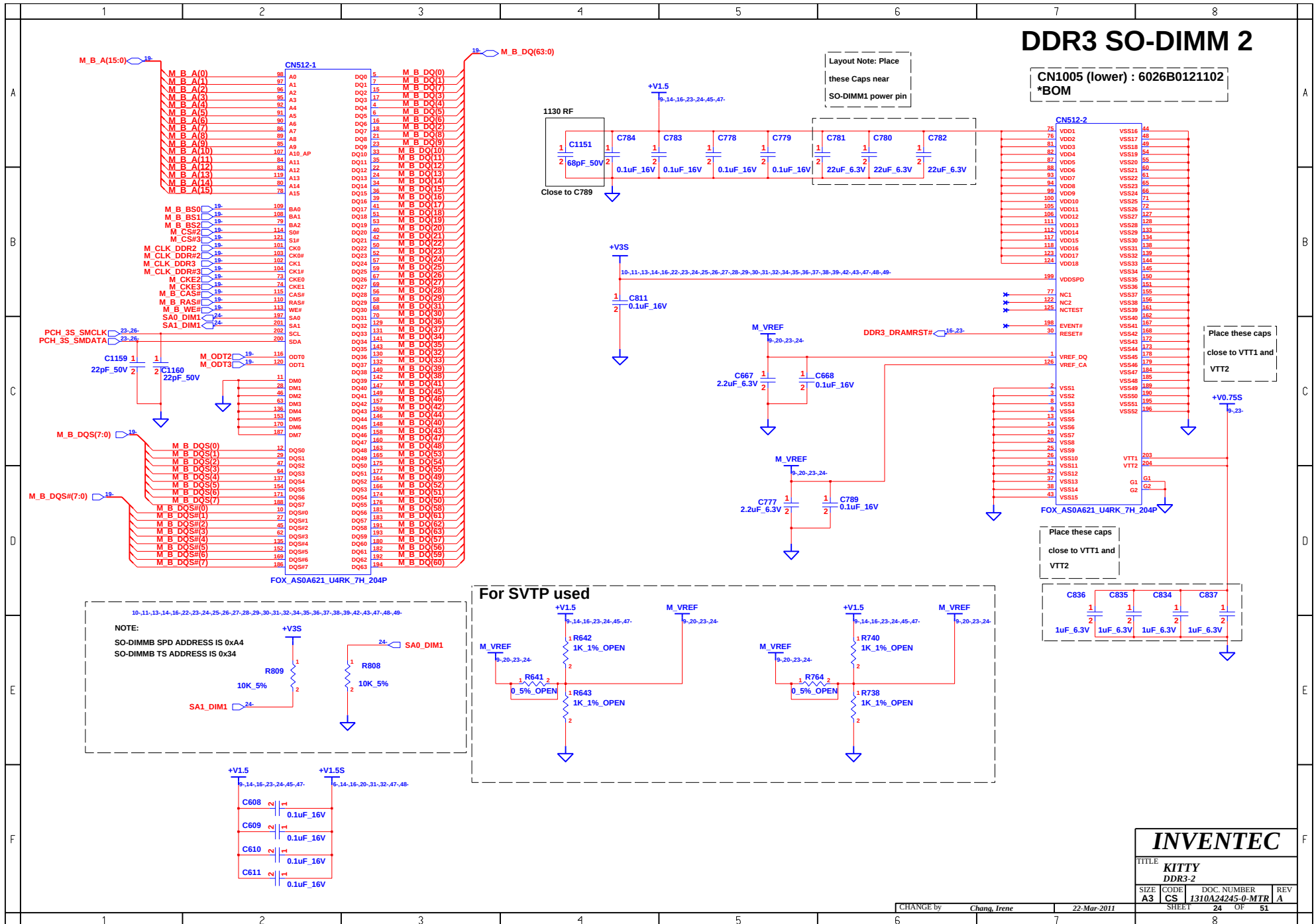
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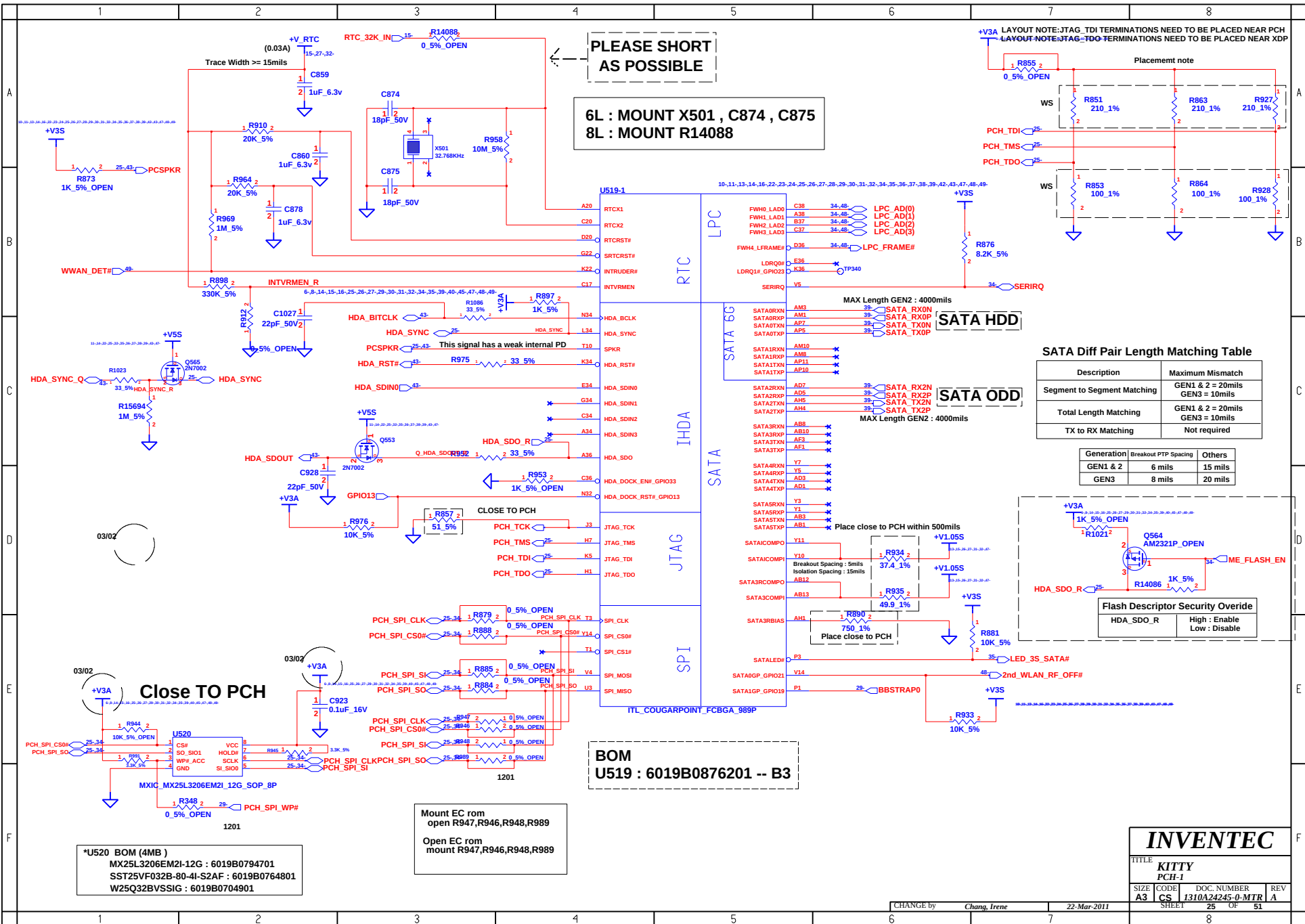
SO-DIMMB SPD ADDRESS IS 0xA4
SO-DIMMB TS ADDRESS IS 0x34

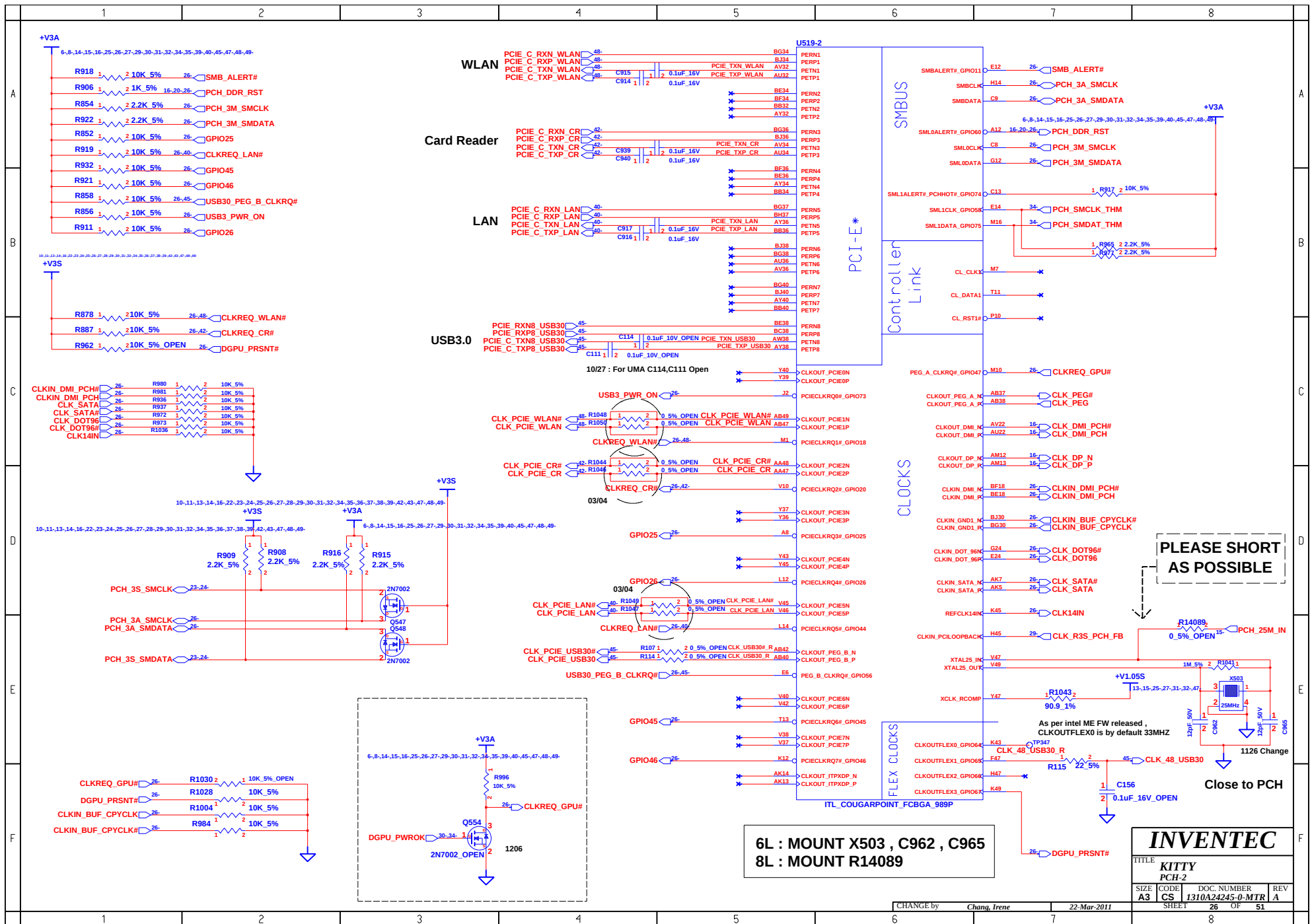
INVENTEC

TITLE KITTY DDR3-2			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
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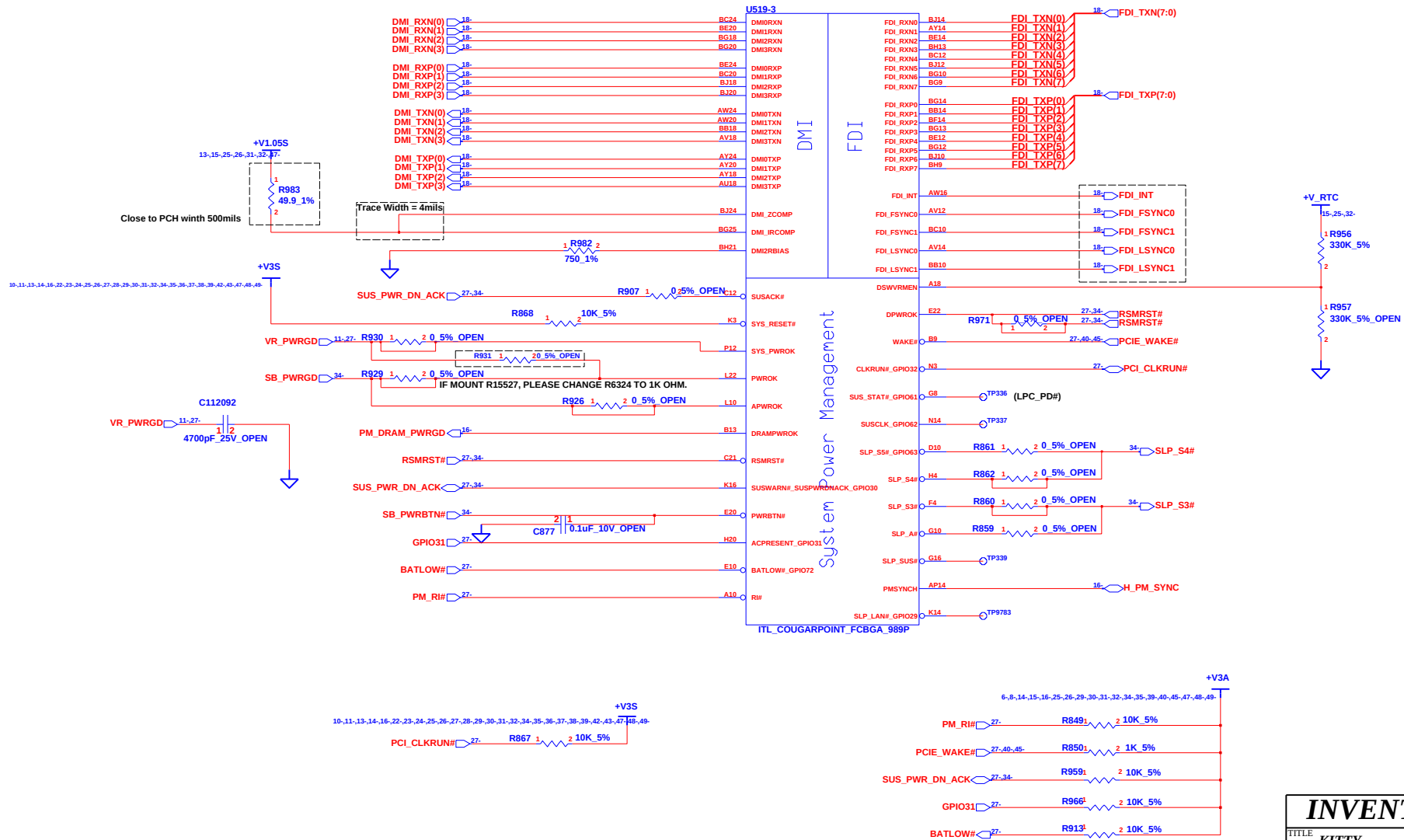
CHANGE by *Chang, Irene* 22-Mar-2011







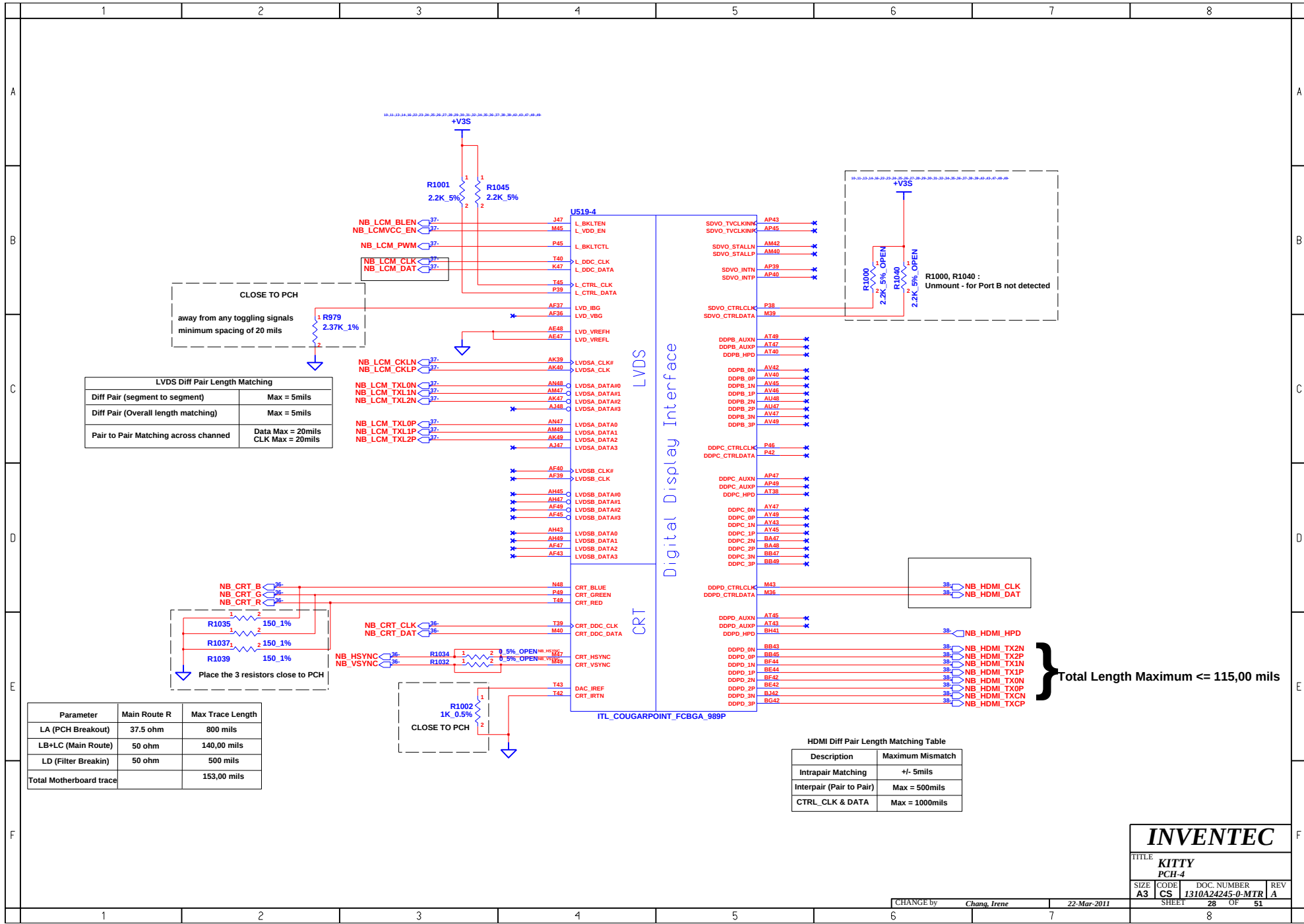
Note: 1.SLP_SUS and SUSACK# are NC if DSW is not supported
2.DPWROK should connect to RSMRST# if DSW not supported
3.PCH_DPWROK pull up to +V3S enables DSW support. No install R5261 to disable DSW



INVENTEC

TITLE KITTY PCH-3			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
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CHANGE by Chang, Irene 22-Mar-2011



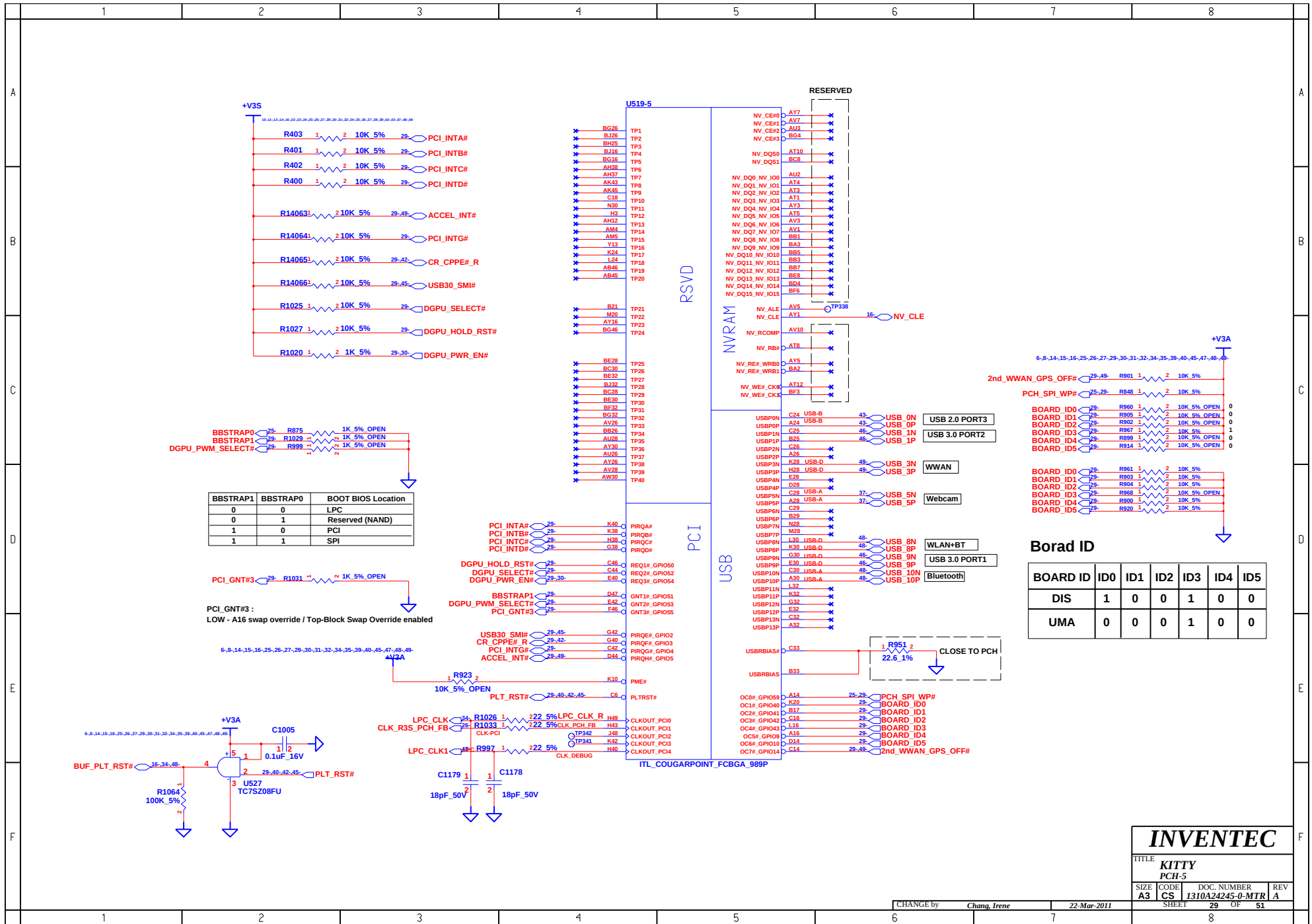
LVDS Diff Pair Length Matching	
Diff Pair (segment to segment)	Max = 5mils
Diff Pair (Overall length matching)	Max = 5mils
Pair to Pair Matching across channel	Data Max = 20mils CLK Max = 20mils

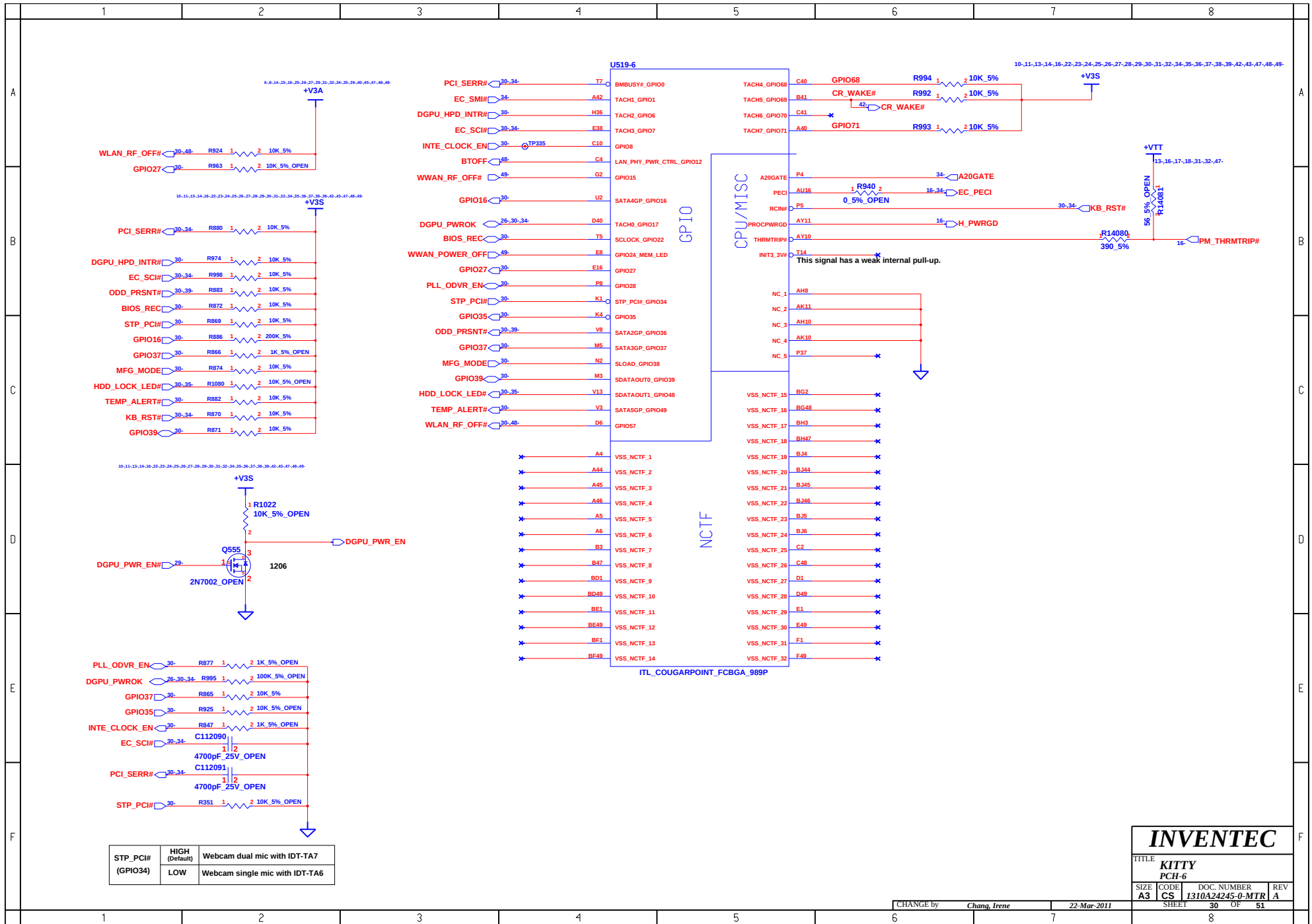
Parameter	Main Route R	Max Trace Length
LA (PCH Breakout)	37.5 ohm	800 mils
LB+LC (Main Route)	50 ohm	140,00 mils
LD (Filter Breakin)	50 ohm	500 mils
Total Motherboard trace		153,00 mils

HDMI Diff Pair Length Matching Table	
Description	Maximum Mismatch
Intrapair Matching	+/- 5mils
Interpair (Pair to Pair)	Max = 500mils
CTRL_CLK & DATA	Max = 1000mils

INVENTEC

TITLE KITTY PCH-4			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
CHANGE by Chang, Irene		22-Mar-2011	
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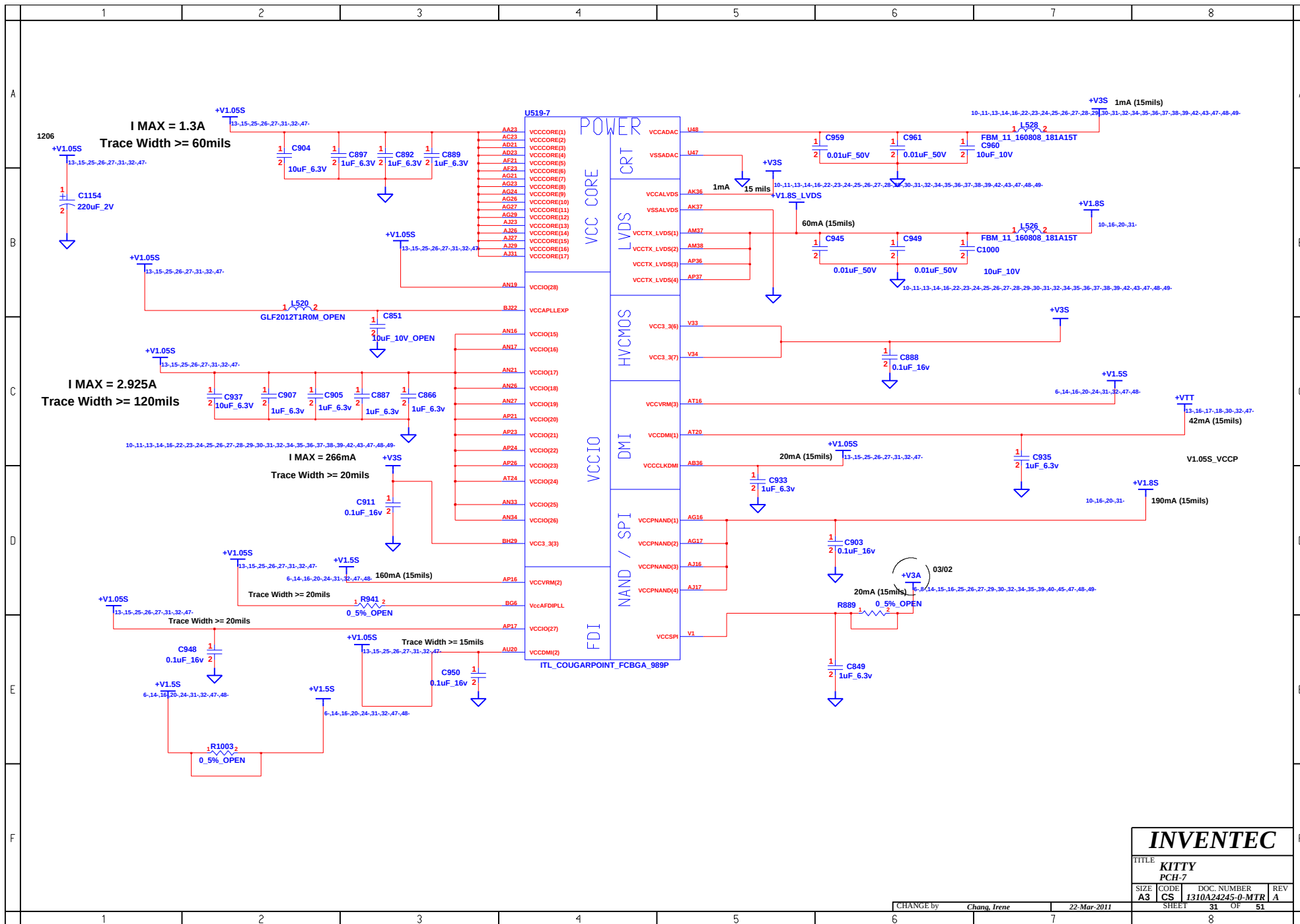


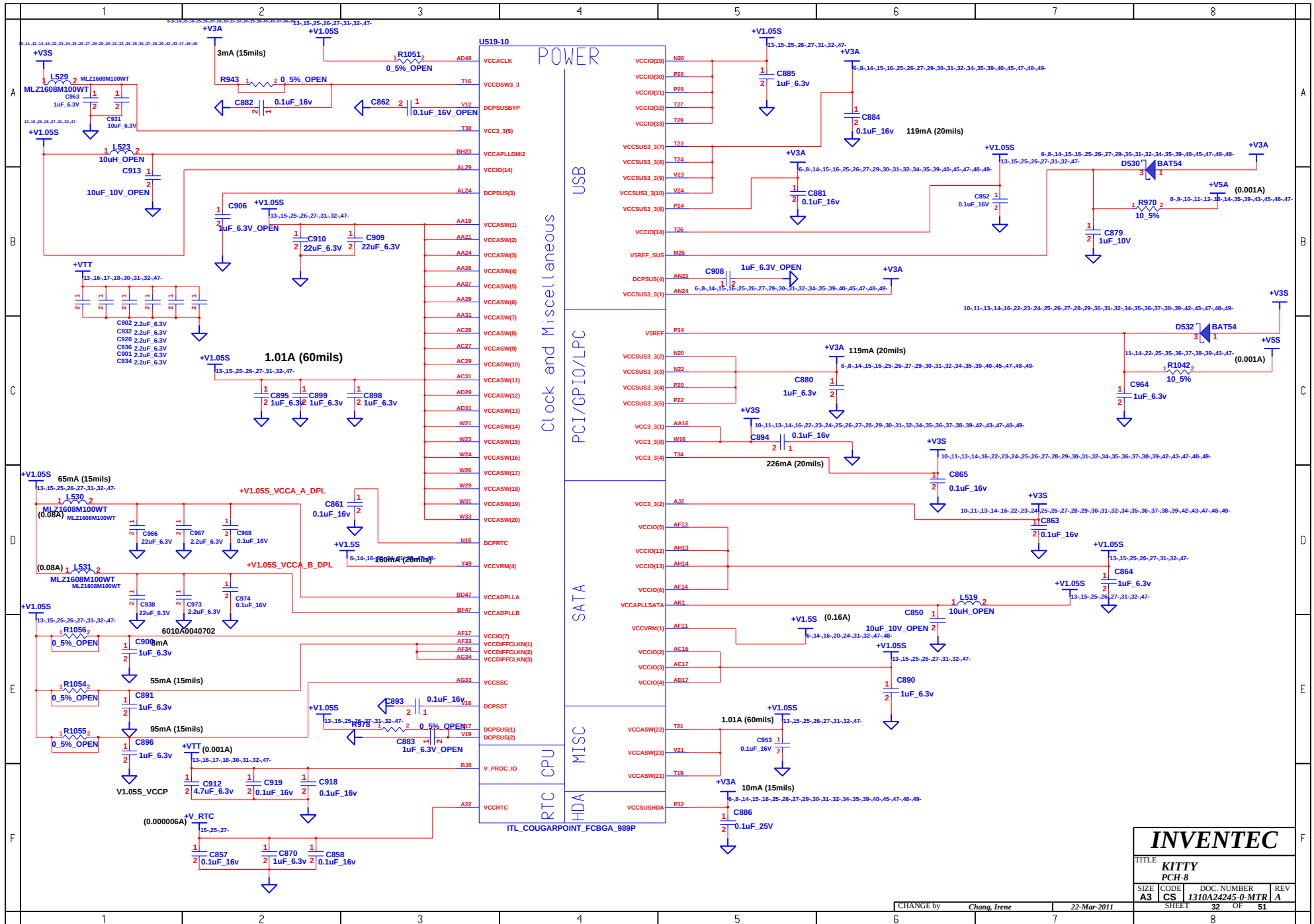


INVENTEC

TITLE KITTY PCH-6			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
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CHANGE by *Chang, Irene* 22-Mar-2011





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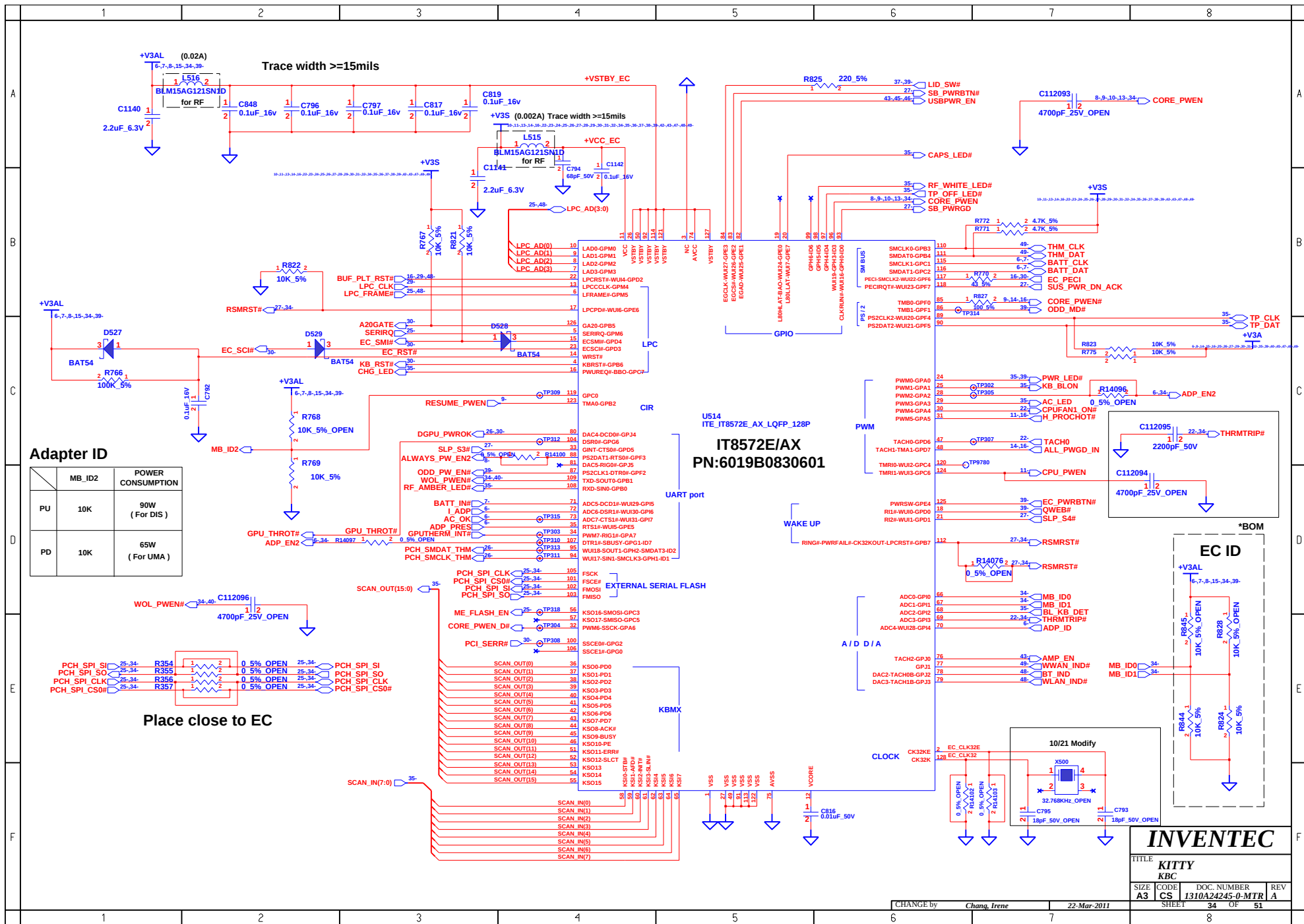
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B								
C								



Adapter ID

	MB_ID2	POWER CONSUMPTION
PU	10K	90W (For DIS)
PD	10K	65W (For UMA)

Place close to EC

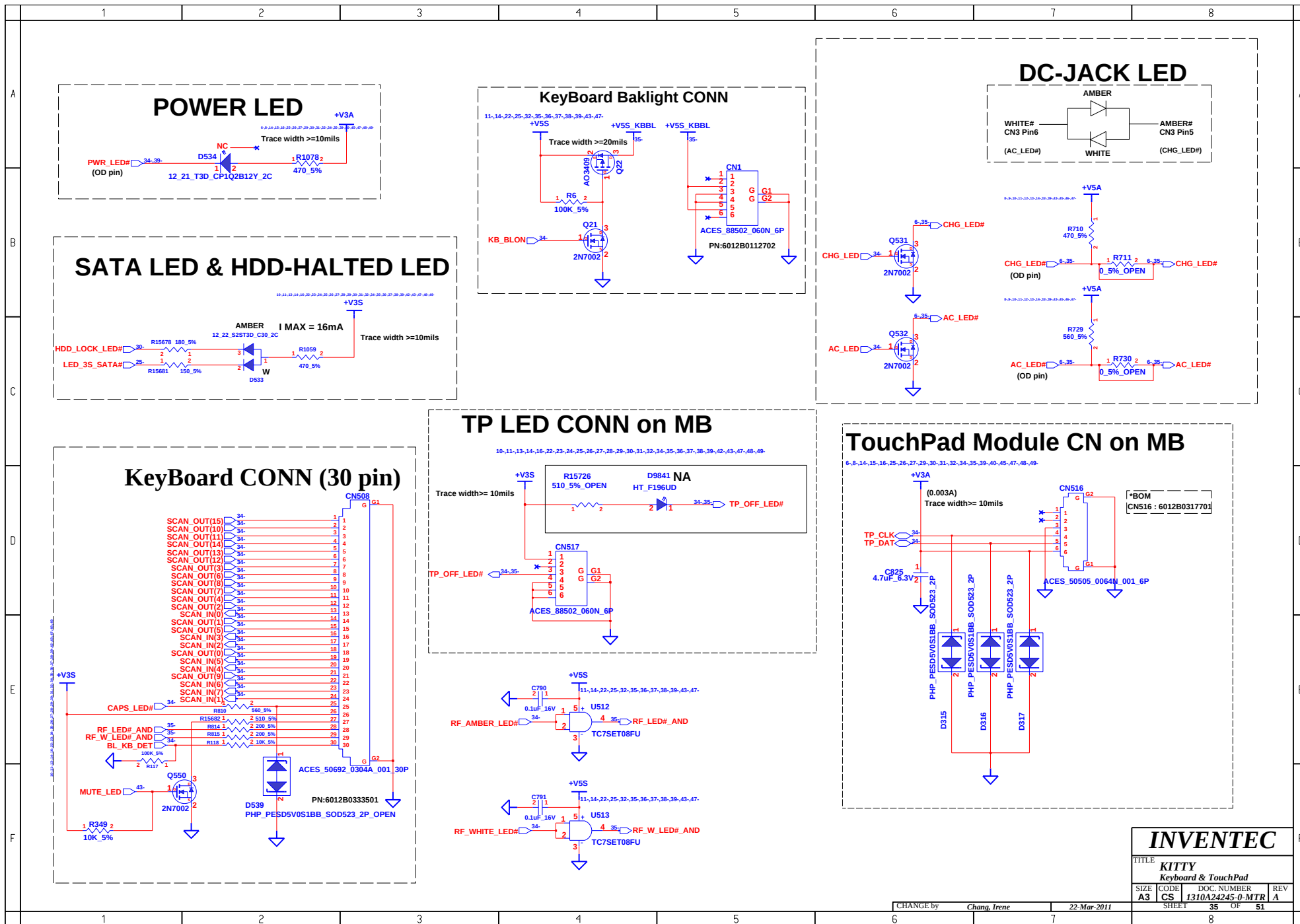
IT8572E/AX
PN:6019B0830601

*BOM

INVENTEC

TITLE	KITTY KBC
SIZE	A3
CODE	CS
DOC. NUMBER	1310A24245-0-MTR
REV	A
SHEET	34
OF	51

CHANGE by Chang, Irene 22-Mar-2011

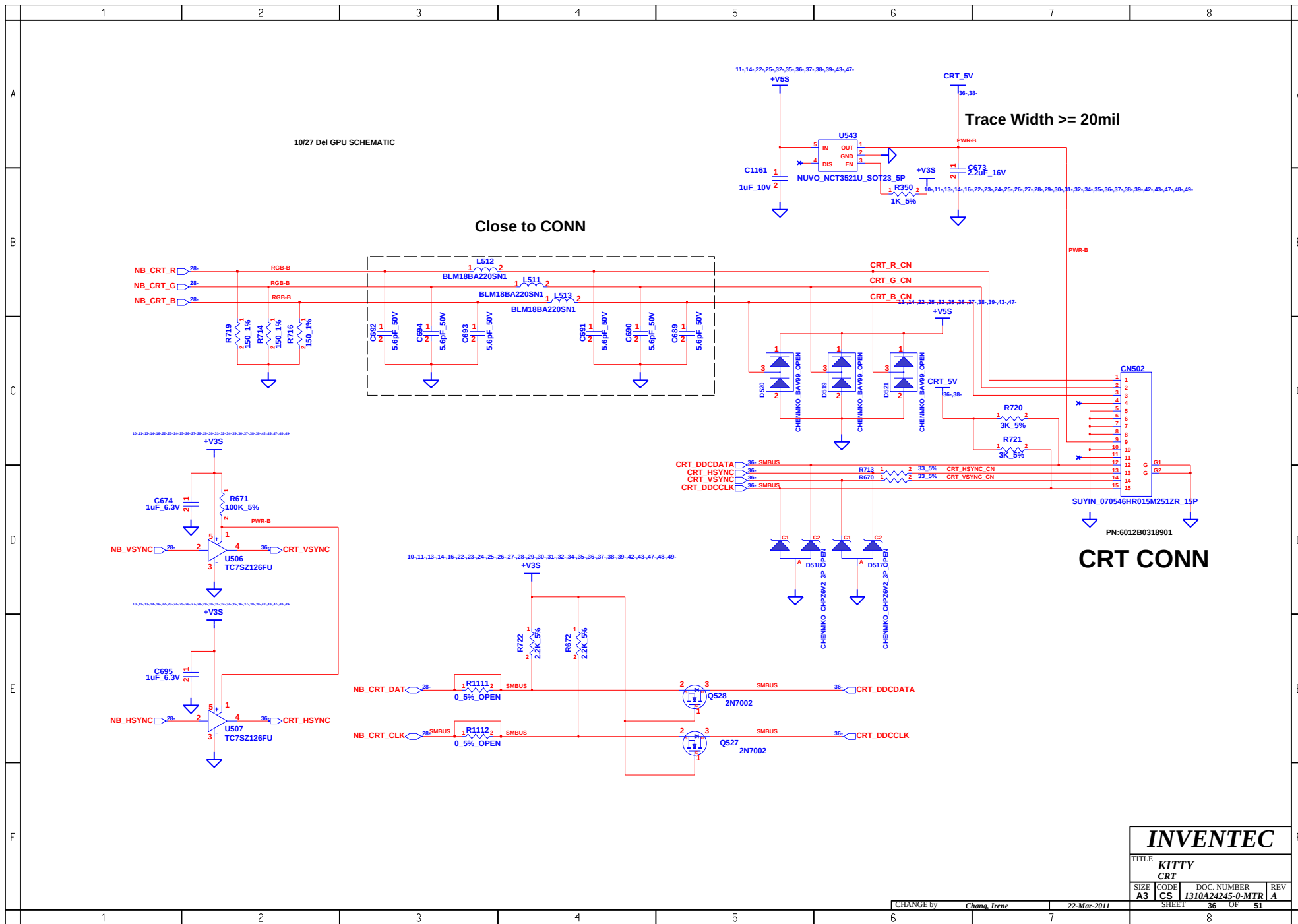


INVENTEC

TITLE			
KITTY			
Keyboard & TouchPad			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24245-0-MTR	A

CHANGE by *Chang, Irene* 22-Mar-2011

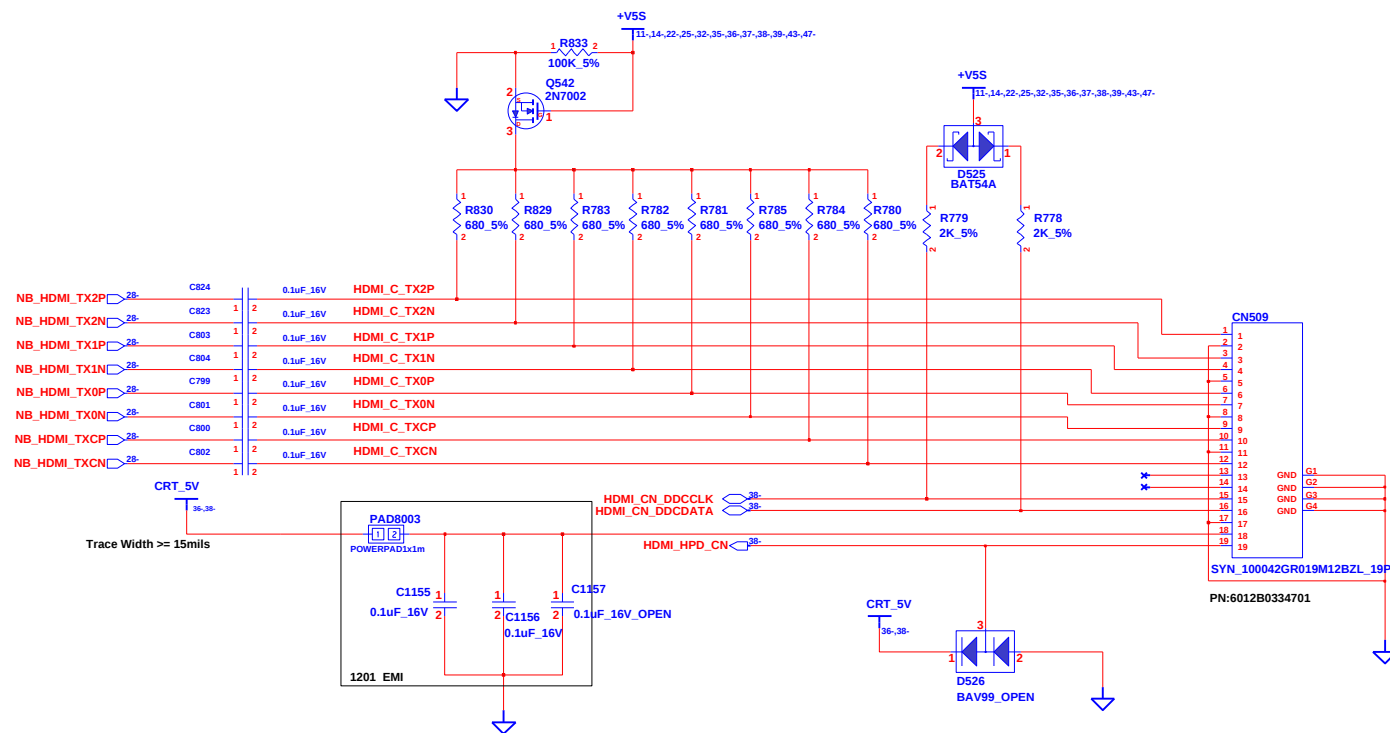
SHEET 35 OF 51



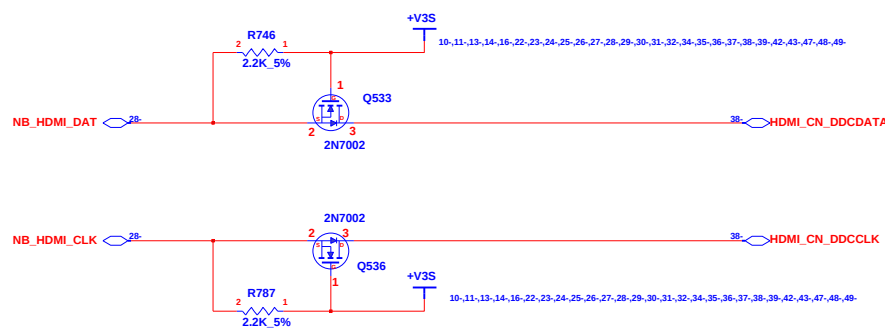
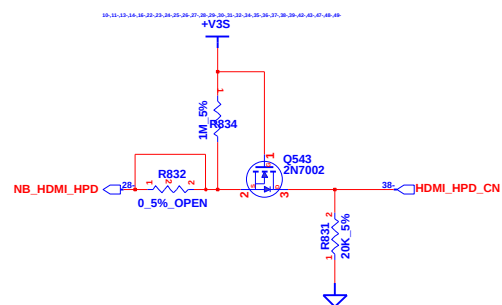
INVENTEC

TITLE			
KITTY CRT			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24245-0-MTR	A
SHEET		36	OF 51

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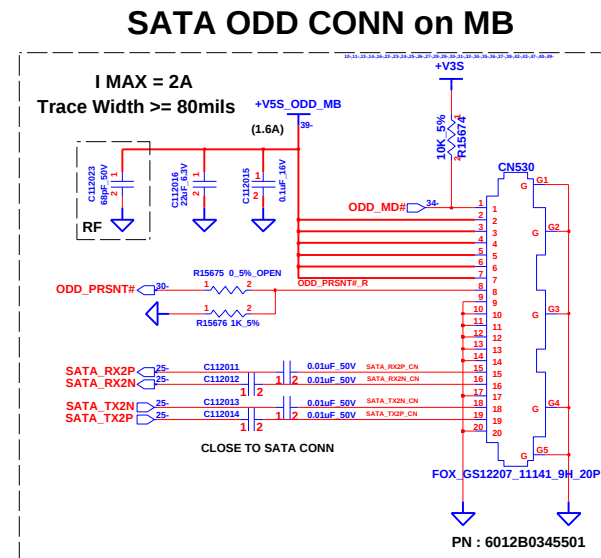
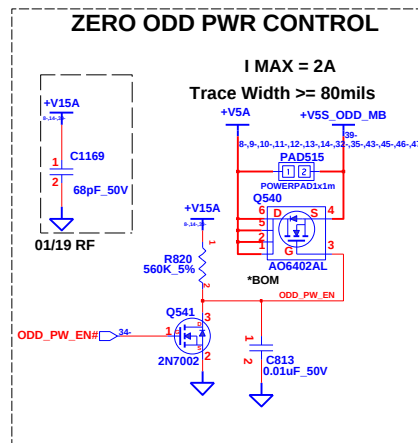
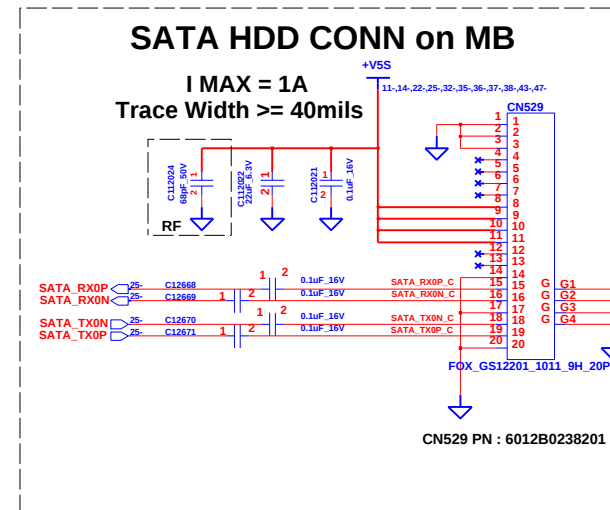
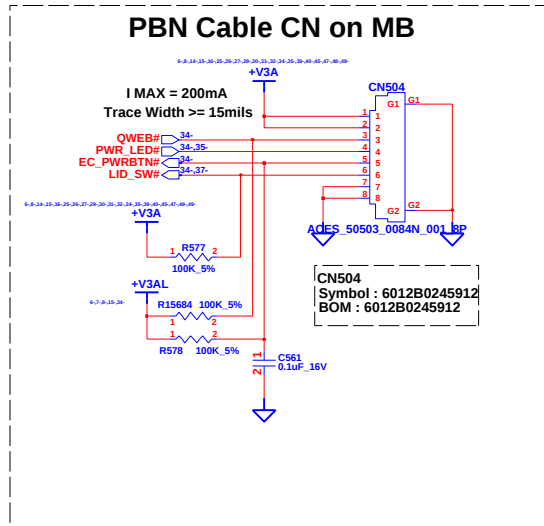
HDMI CONN



INVENTEC

TITLE KITTY HDMI Level-Shift			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
SHEET 38		OF 51	

CHANGE by *Chang, Irene* 22-Mar-2011



INVENTEC

TITLE KITTY SATA HDD & ODD			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
SHEET 39		OF 51	

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Layout Note :

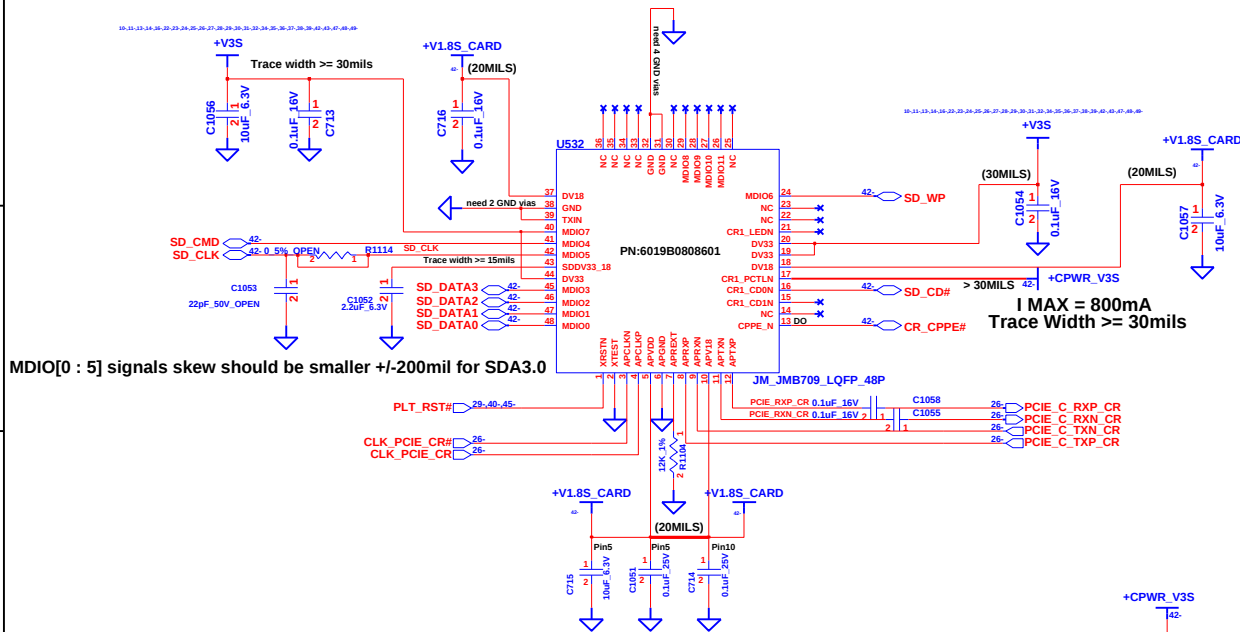
C1051 CLOSE TO PIN5 (Trace width/length : 11mils/<100mils)

C715 Close to C1051 (Trace width/length : 20mils/<40mils)

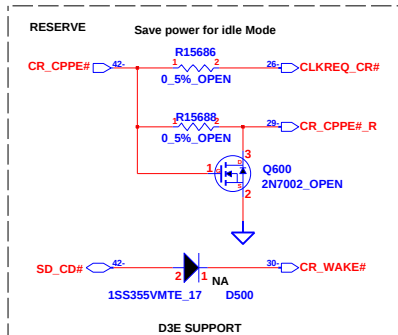
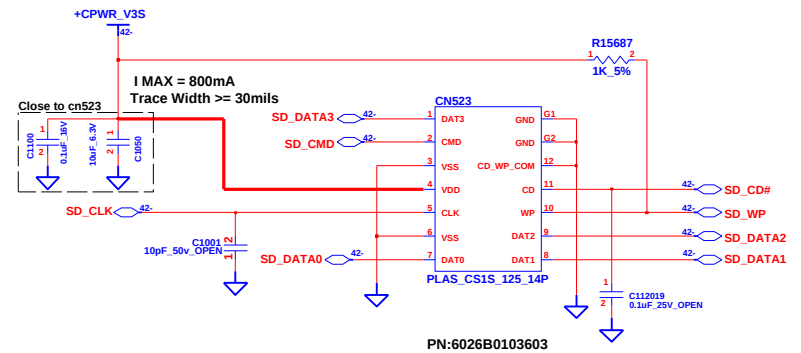
C714 close to pin10 (Trace width/length : 11mils/<100mils)

APREXT trace width/length : 12mils/<250mils

C1057 close to pin18 (Trace width/length : 12mils/<100mils for internal REG)



Card Reader CONN



Note :

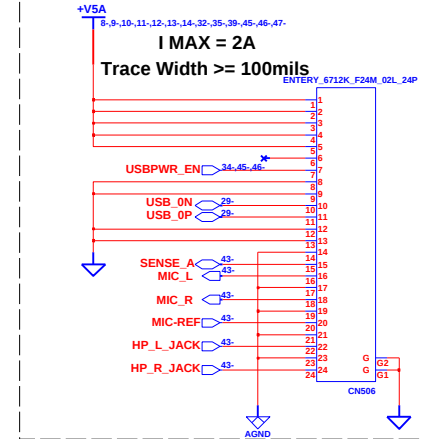
1. Add Q600 & R15688 NA, if JMB709 power domain is different with SB.
2. NA Q600 & mount R15688, if JMB709 power domain is same with SB.

INVENTEC

TITLE			
KITTY			
Card Reader			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24245-0-MTR	A
SHEET		42	OF 51

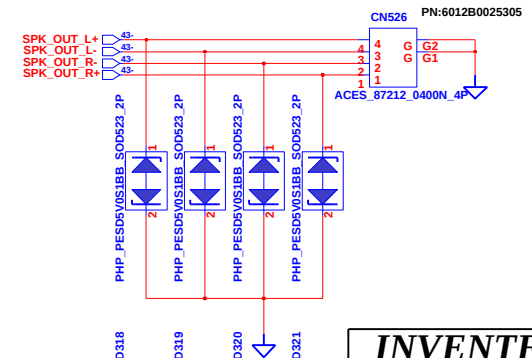
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USB + AUDIO BOARD Cable on MB



PORT	Discription	Sense
A	NO USE	
B	Headphone	HPS
C	Microphone	MICS
D	SPKR	
E	NO USE	
F	NO USE	

INT-SPEAKER CONN



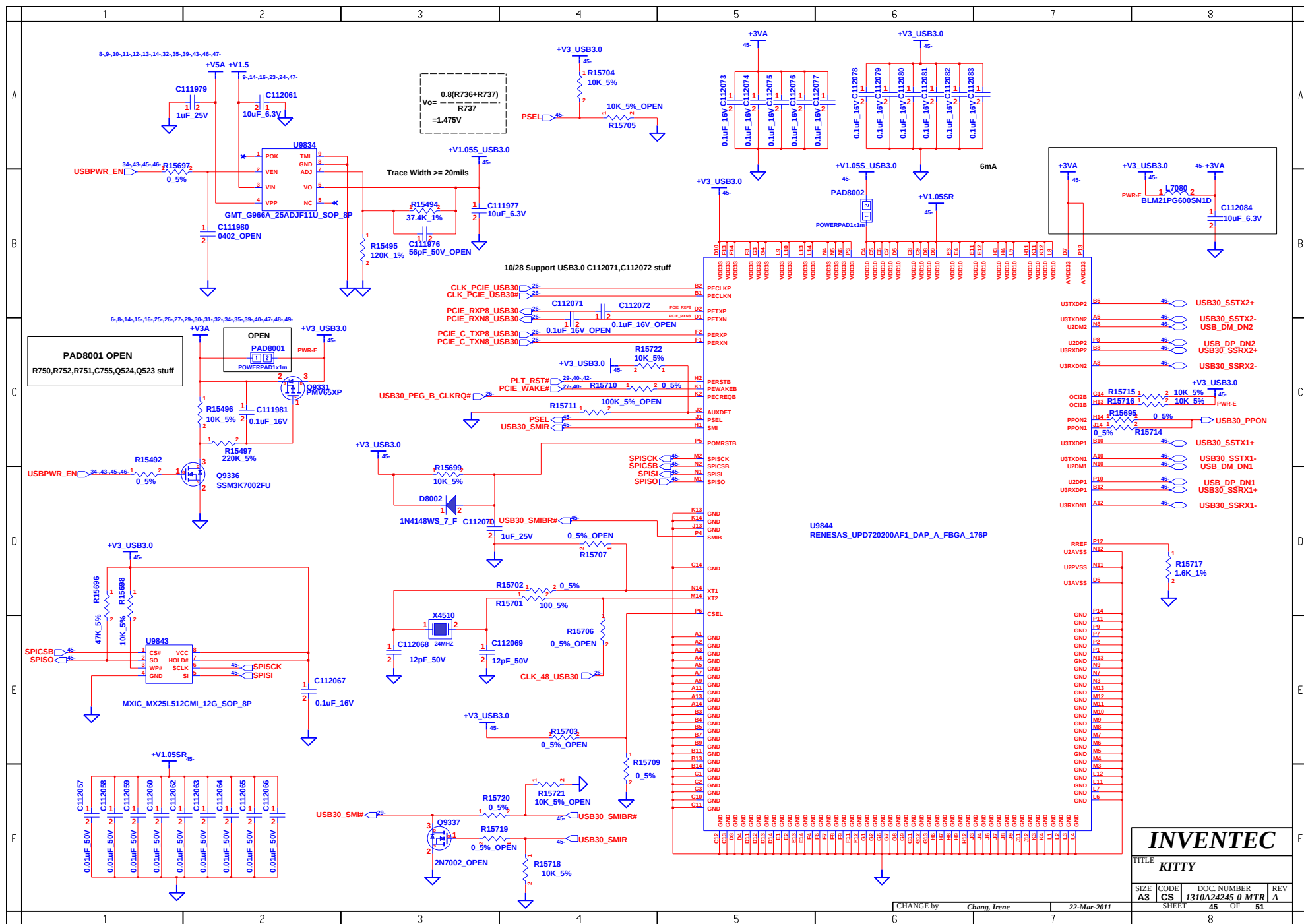
INVENTEC

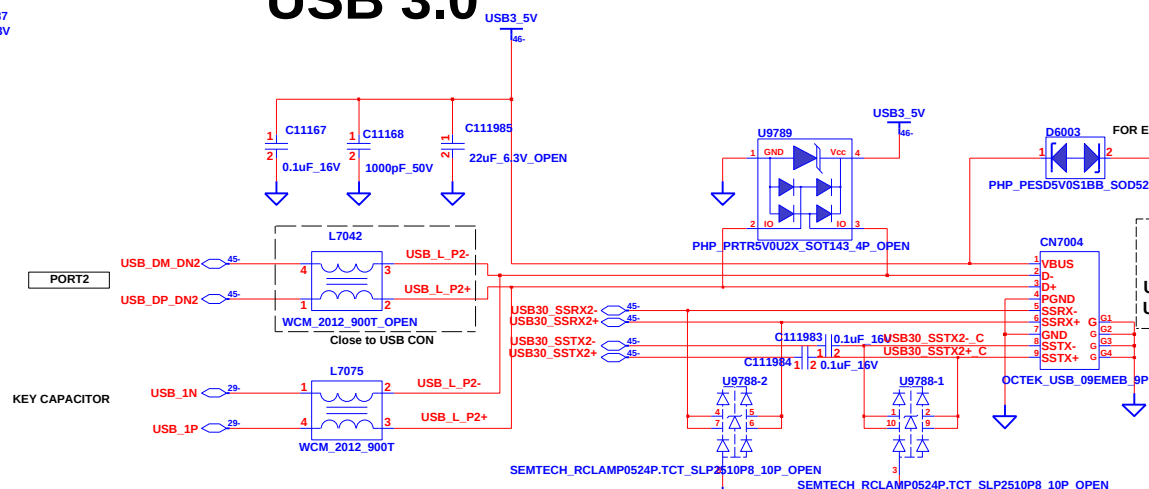
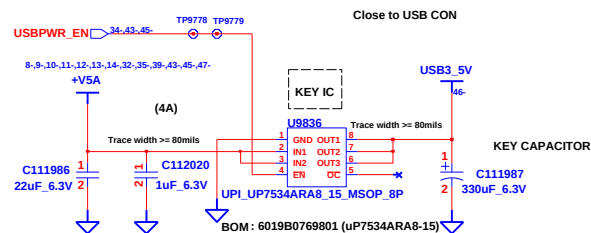
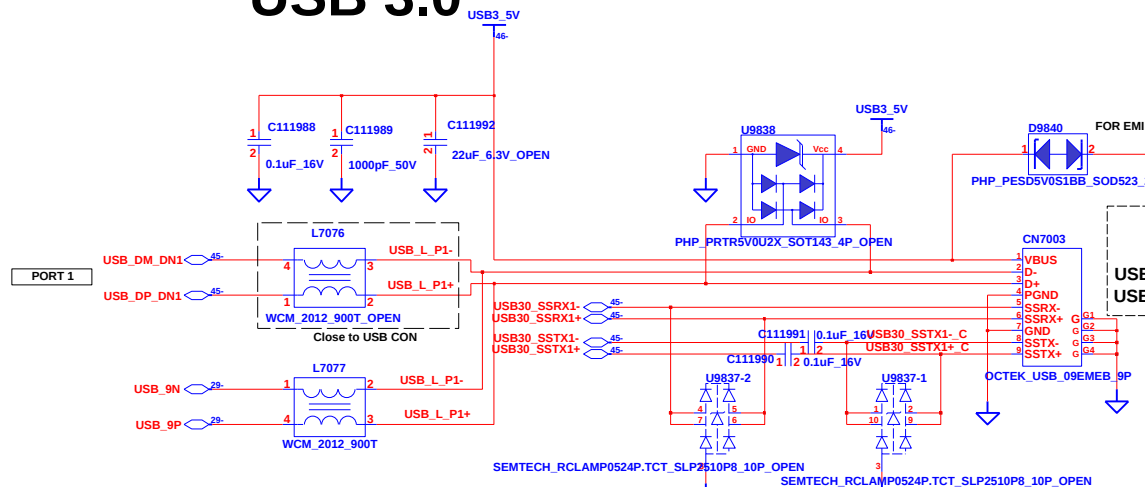
TITLE			
KITTY <i>Audio Codec</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24245-0-MTR	A
SHEET		43	OF 51

	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 KITTY			
HP JACK & MIC JACK			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24245-0-MTR	A
SHEET		44	OF 51

CHANGE by	Chang, Irene	22-Mar-2011
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TITLE			
KITTY			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24245-0-MTR	A
SHEET		46	OF 51

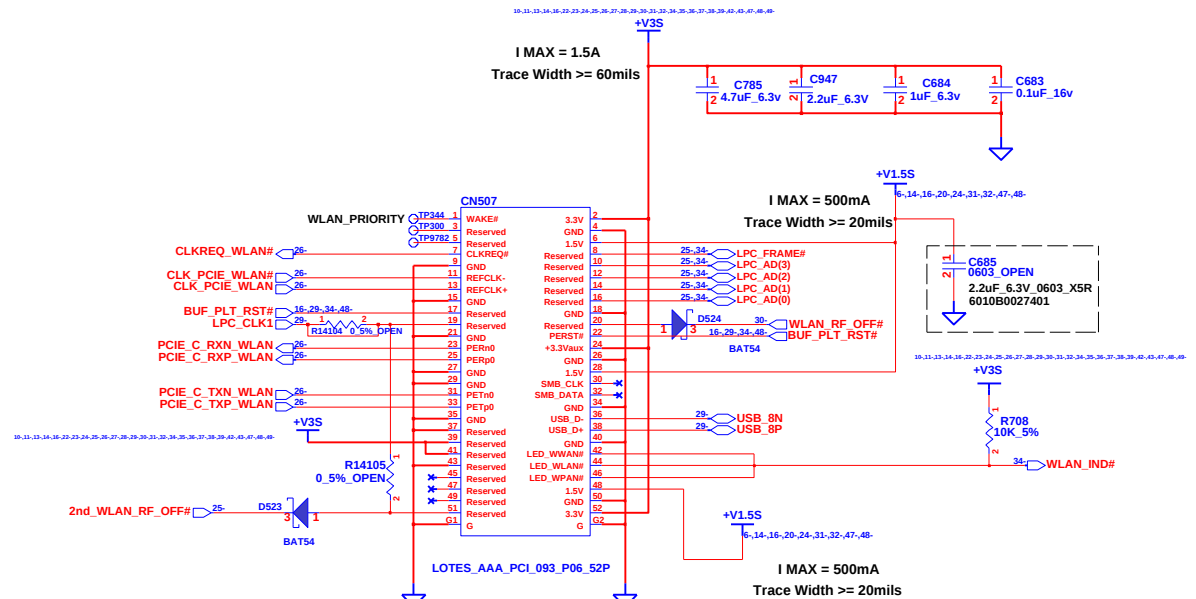
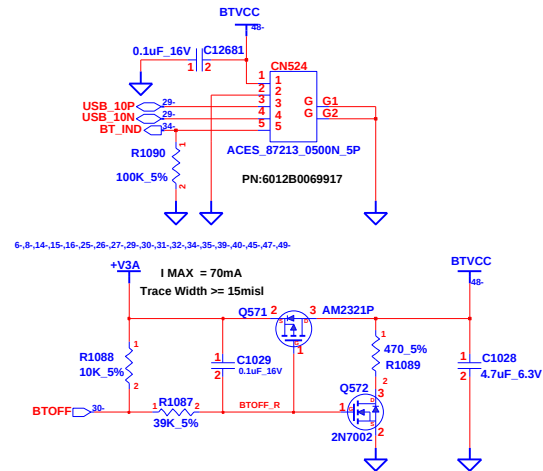


EMI



WLAN CONN (MINICARD)

BLUETOOTH CONN



*BOM
CN507 : 6026B0184301

INVENTEC

TITLE			
KITTY WLAN, BT & WebCAM			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24245-0-MTR	A
SHEET		48 OF	51

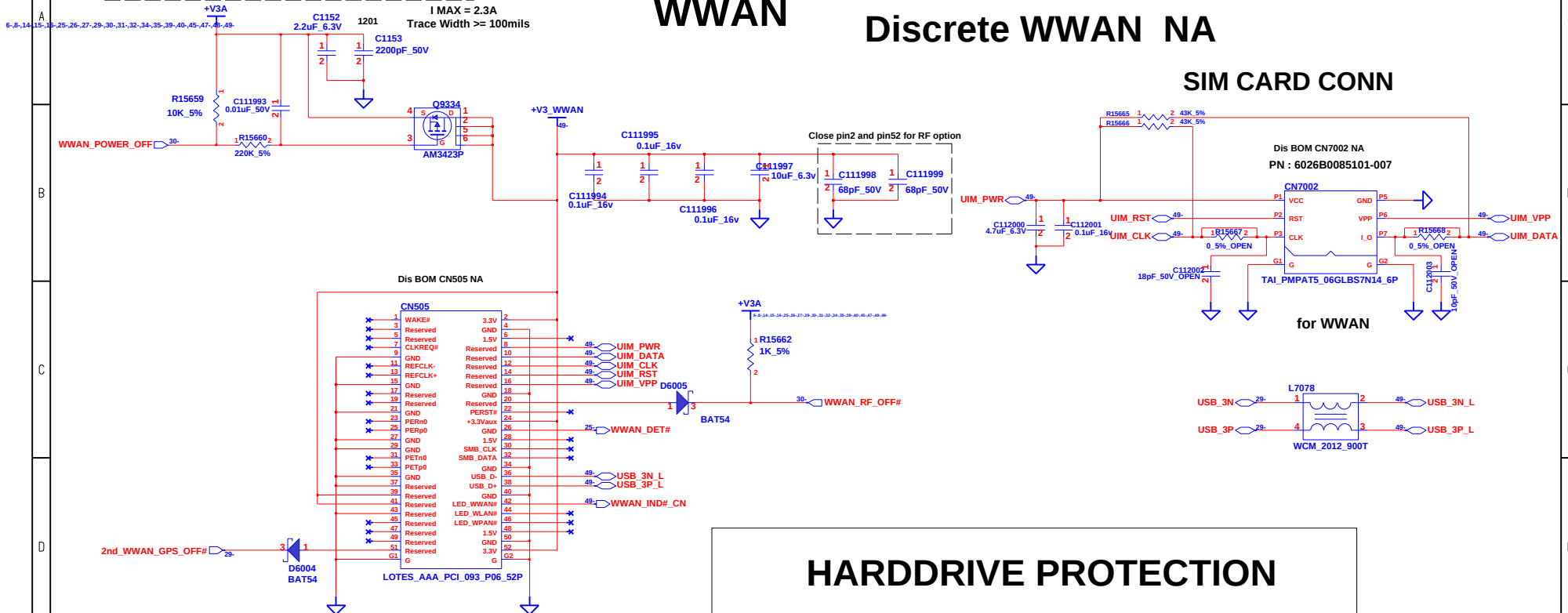
CHANGE by	Chang, Irene	22-Mar-2011
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OPTION PART

WWAN

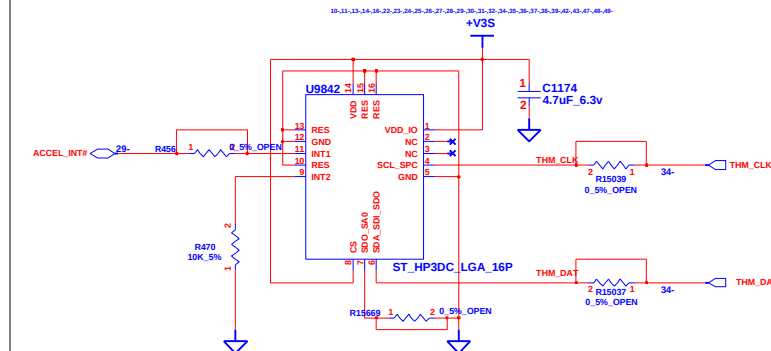
UMA WWAN stuff Discrete WWAN NA

SIM CARD CONN



*BOM
CN505 : 6026B0184301

HARDDRIVE PROTECTION



INVENTEC

TITLE KITTY USB CONN			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
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USB + AUDIO BOARD

USB CONN03

MIC JACK

HP JACK

INVENTEC

KITTY

USB, PowerButton (DB)

SIZE A3 CODE CS DOC. NUMBER 1310A24245-0-MTR REV A

SHEET 50 OF 51

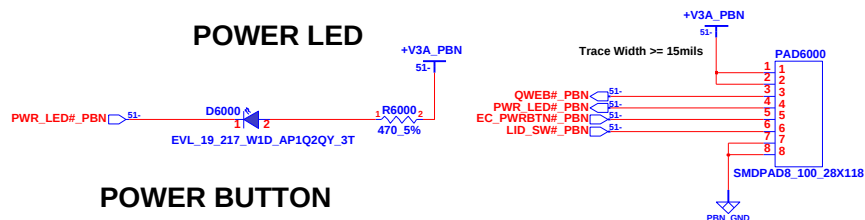
CHANGE by Chang, Irene 22-Mar-2011

8

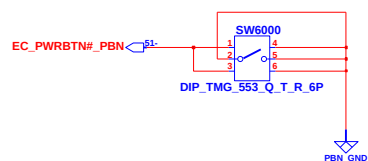
INVENTEC				
TITLE KITTY USB, PowerButton (DB)				
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR		REV A
SHEET 50		OF 51		

POWER BOTTON BOARD

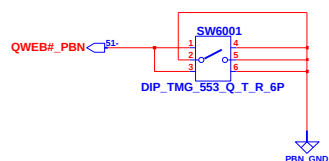
POWER LED



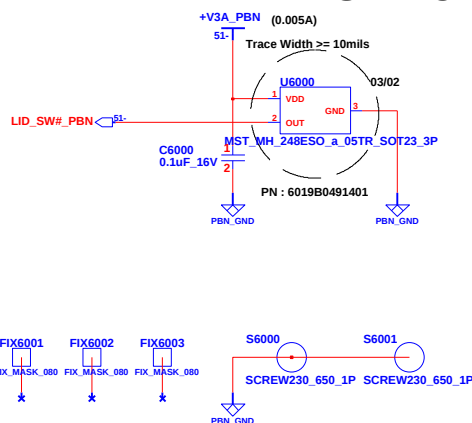
POWER BUTTON



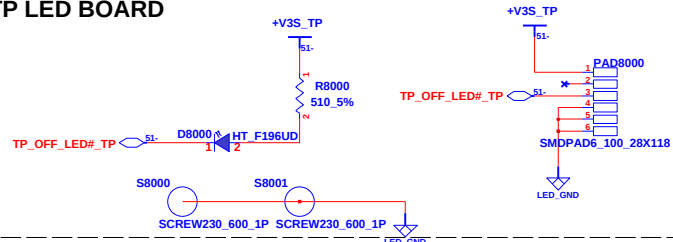
QWEB BUTTON



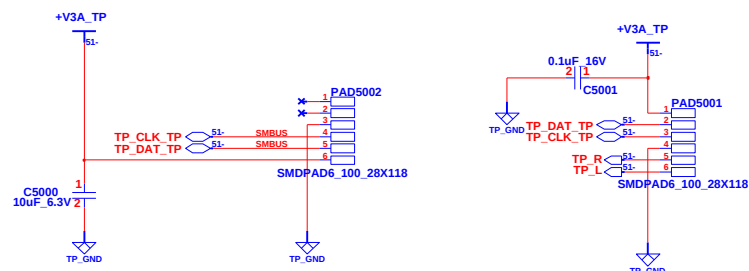
LID SWITCH



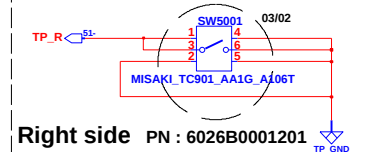
TP LED BOARD



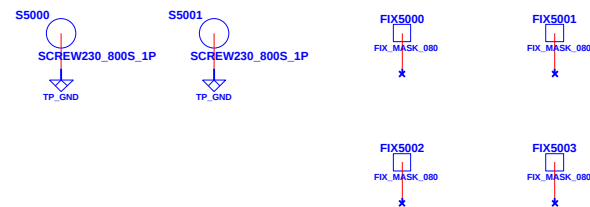
PICK BUTTON BOARD



Left side



Right side



INVENTEC

TITLE
KITTY

SIZE CODE DOC. NUMBER REV
A3 CS 1310A24245-0-MTR A

CHANGE by Chang, Irene 22-Mar-2011

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