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A

HSF Property : HF

B

KITTY14I

Huron River Platform

MV Build(Only UMA)

A02

2011/03/23

C

D

E

KITTY UMA USB2.0 :

D500 : NA

L536 : NA

U9834 : NA

CN505 : 6026B0184301

CN507 : 6026B0184301

L7076 : NA

L7042 : NA

L7077 : 6014A0013901

L7075 : 6014A0013901

CN7003 : 6012B0381501

CN7004 : 6012B0381501

} USB 3.0

} USB 2.0

F

2011-03-11	2011-ECO-004350	A
DATE	CHANGE NO.	REV

	EE	DATE	POWER	DATE
DRAWER	Chung, Irene	2010-12-01	Hsieh, Alan	2010-12-01
DESIGN	Hu, Hook	2010-12-01		
CHECK	Hu, Hook	2010-12-01		
RESPONSIBLE				
SIZE =		3		VER :
FILE NAME : KITTY-6050A2424501-A01-2010-12-01				
P/N	6050A2424501			

INVENTEC			
KITTY			
Project Name			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24245-0-MTR	A
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02. INDEX
03. Block Diagram
04. POWER Procedure
05. Power On sequence
06. DC & CHARGE Circuit
07. Battery CONN
08. +V3A & +V5A
09. +V1.5 & +V0.75
10. +V1.8S & +VCCSA
11. VCC & VGFX Core IC
12. +VCC_CORE & +VGFX_CORE
13. VTT & +V1.05S
14. +V5S & +V3S & +V1.5S
15. SLG3NB_CLK GEN
16. CPU-1 (CLK, MISC, JTAG)
17. CPU-2 (POWER)
18. CPU-3 (DMI, DP, PEG, FDI)
19. CPU-4 (DDR3)
20. CPU-5 (GRAPHICS POWER)
21. CPU-6 (GND)
22. Thermal HW , Fan
23. DDR3-1
24. DDR3-2

PAGE

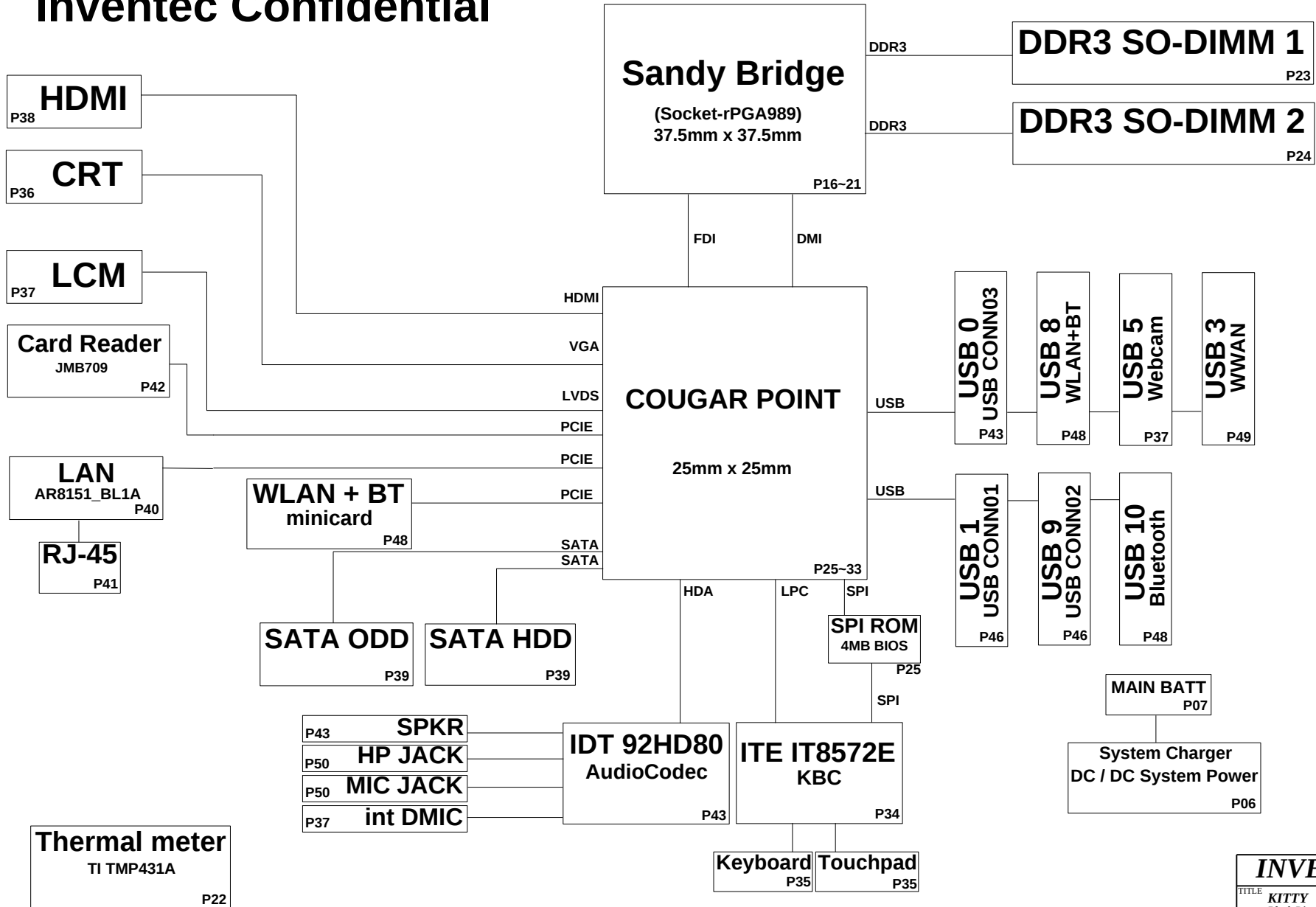
25. PCH-1 (HDA, JTAG, SPI, SATA)
26. PCH-2 (PCI-E, SMBUS, CLK)
27. PCH-3 (DMI, FDI, GPIO)
28. PCH-4 (LVDS, DDI)
29. PCH-5 (PCI, USB, NVRAM)
30. PCH-6 (GPIO, VSS_NTFC, RSVD)
31. PCH-7 (POWER)
32. PCH-8 (POWER)
33. PCH-9 (GND)
34. KBC ITE8752
35. Keyboard & TouchPad & LED
36. CRT CONN
37. LCM & eDP CONN
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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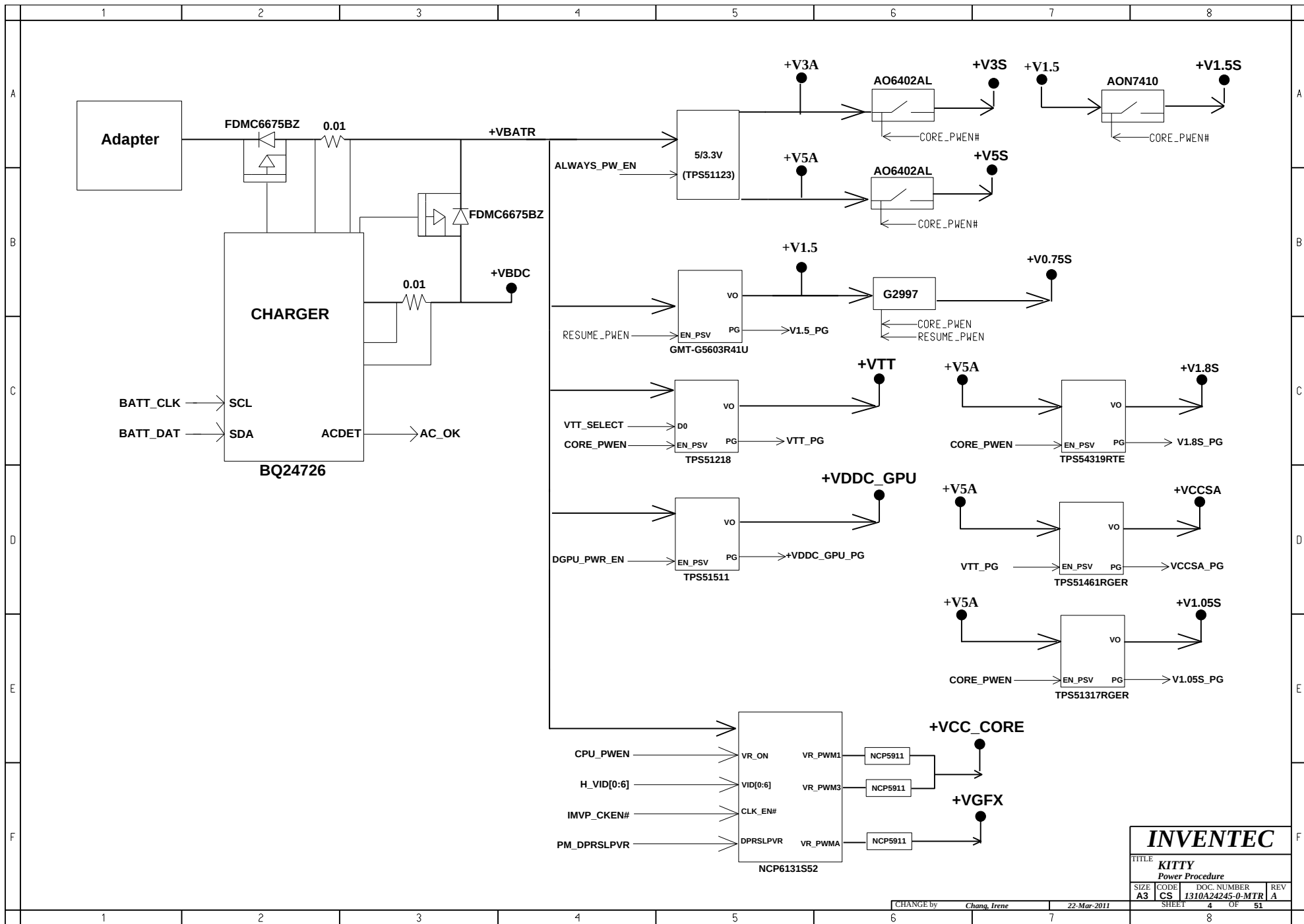
CHANGE by *Chang, Irene* 22-Mar-2011

Inventec Confidential



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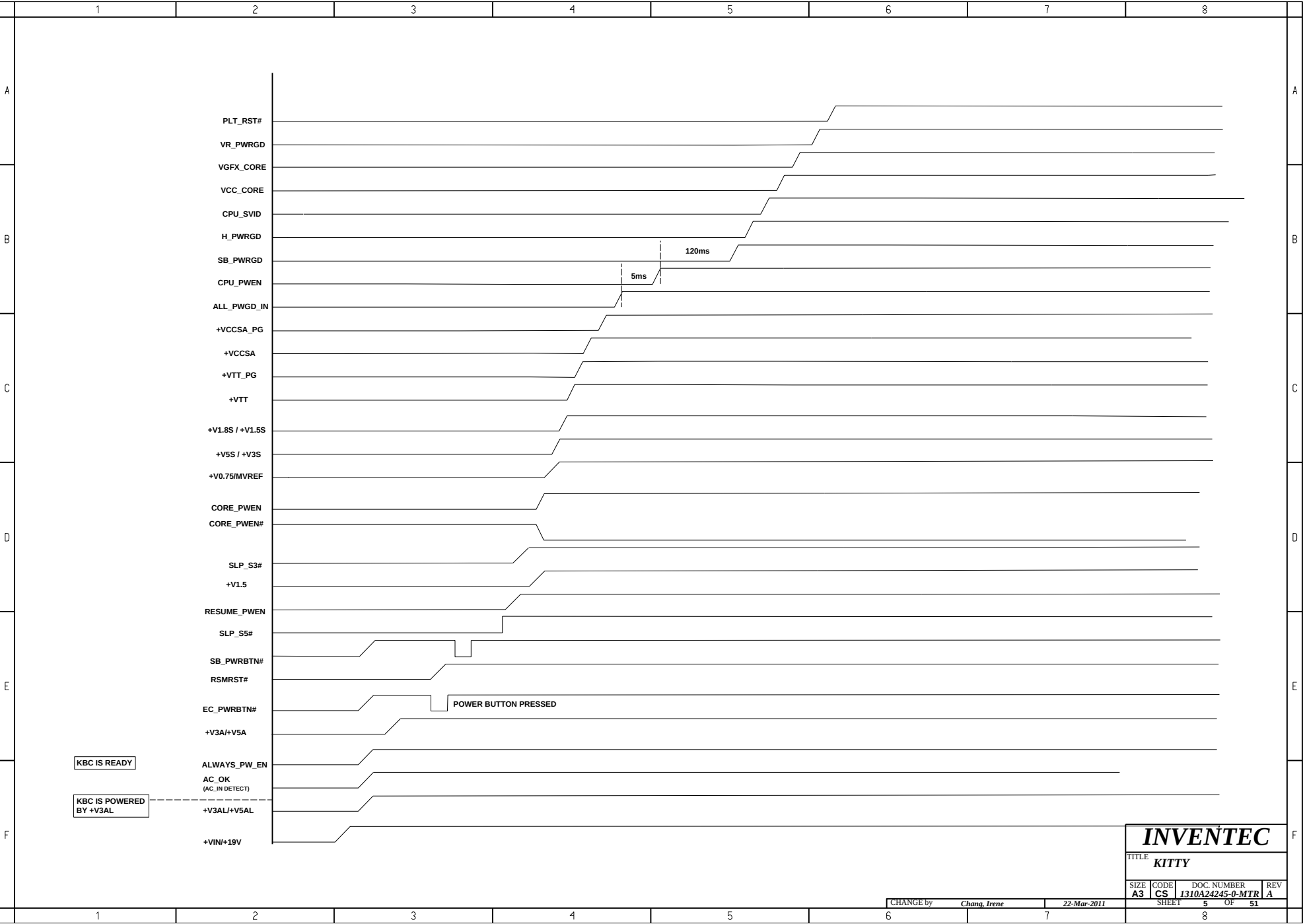
TITLE KITTY Block Diagram			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
CHANGE by <i>Chang, Irene</i>		22-Mar-2011	
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TITLE KITTY Power Procedure			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
SHEET 4		OF 51	

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



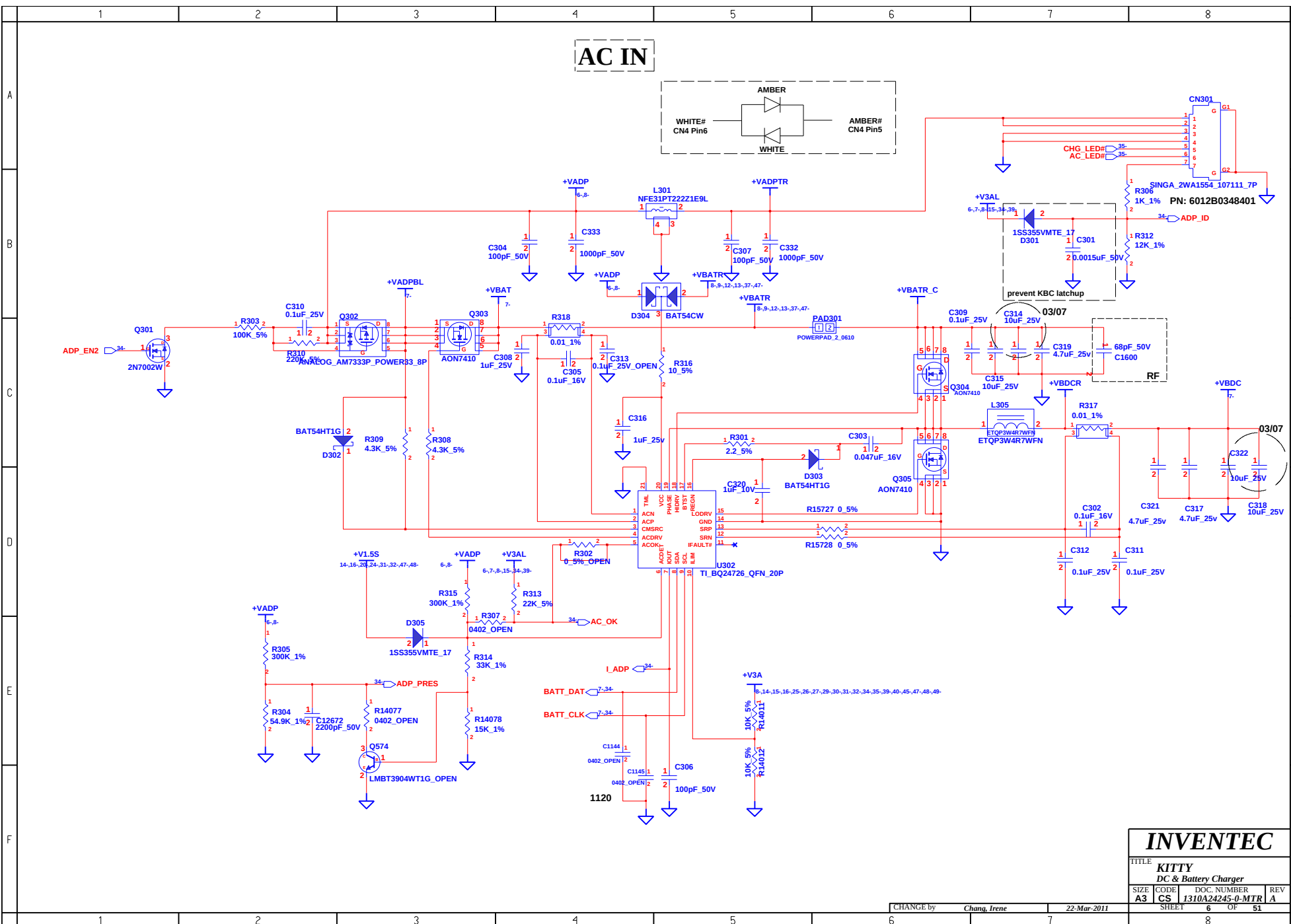
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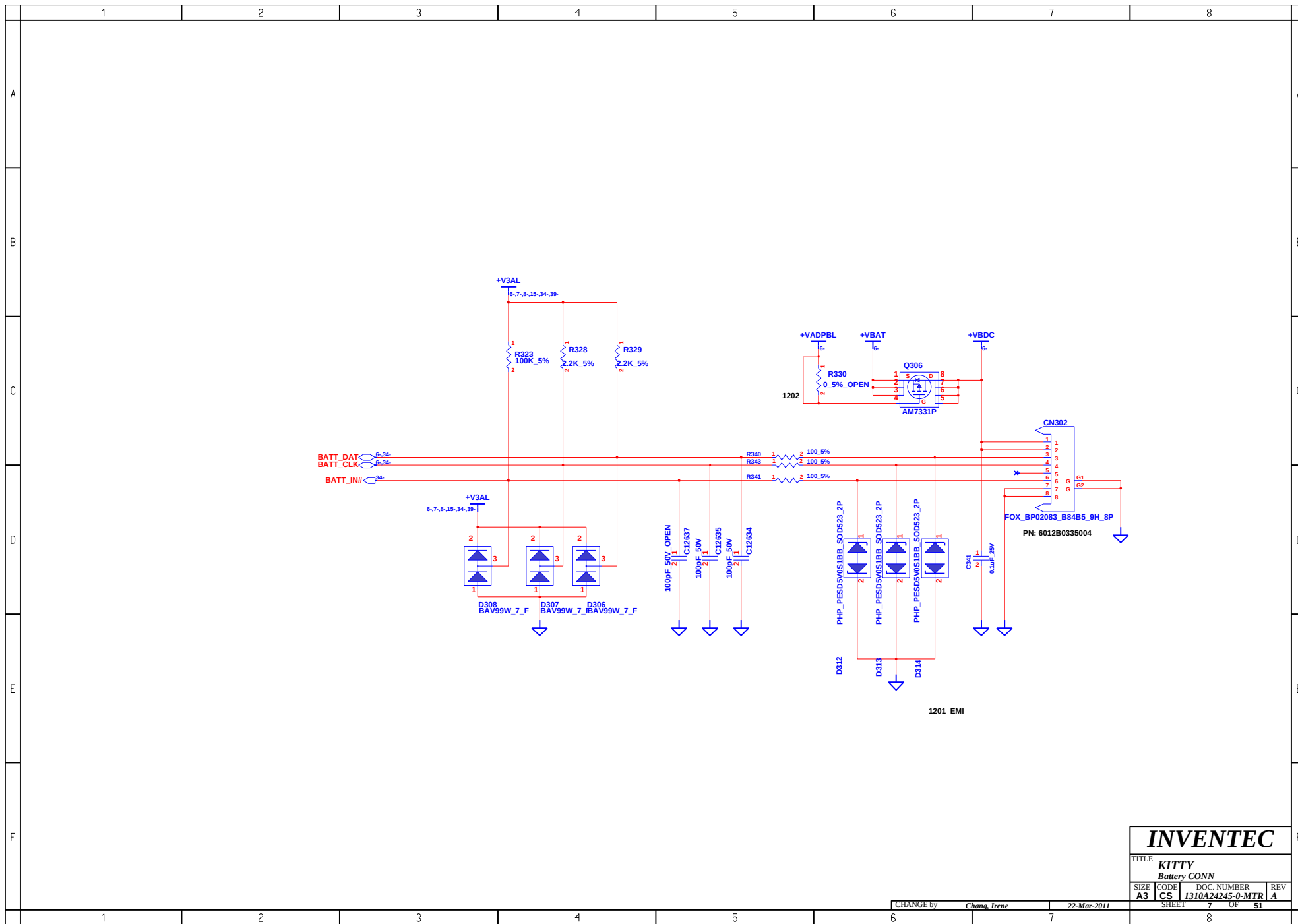
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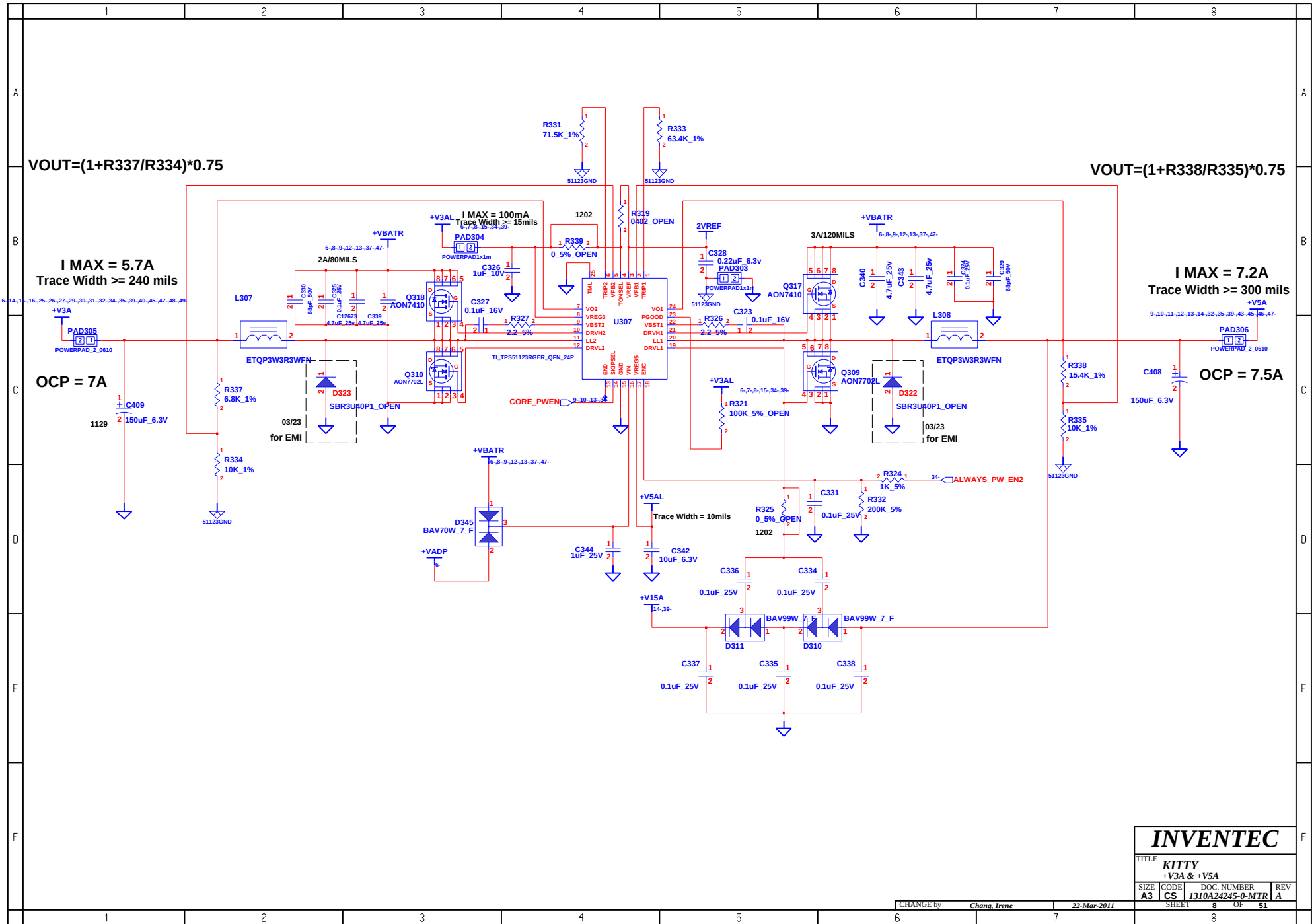
CHANGE by *Chang, Irene* 22-Mar-2011

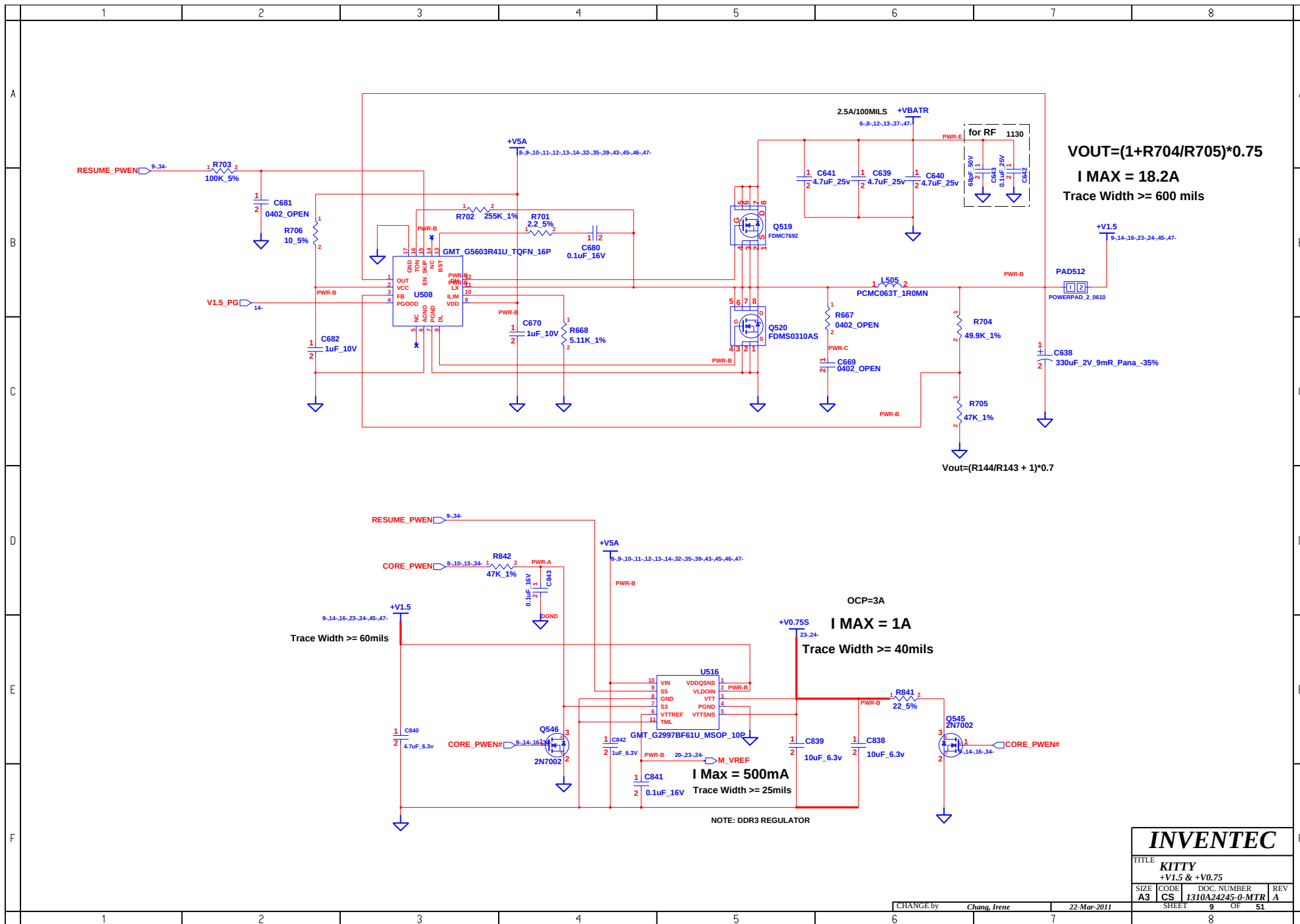
SHEET 5 OF 51

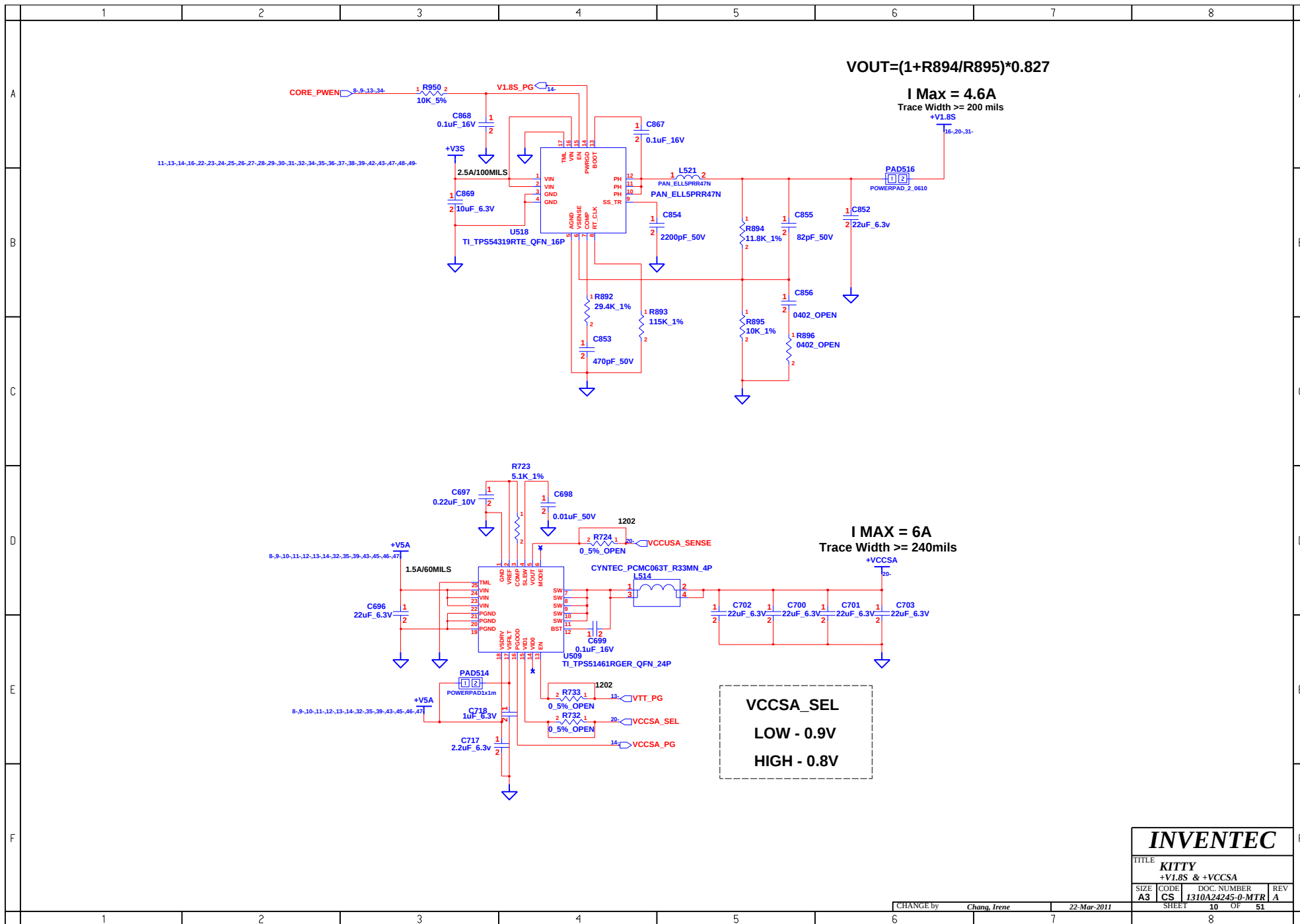




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TITLE KITTY Battery CONN			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
CHANGE by Chang, Irene		22-Mar-2011	
SHEET 7		OF 51	

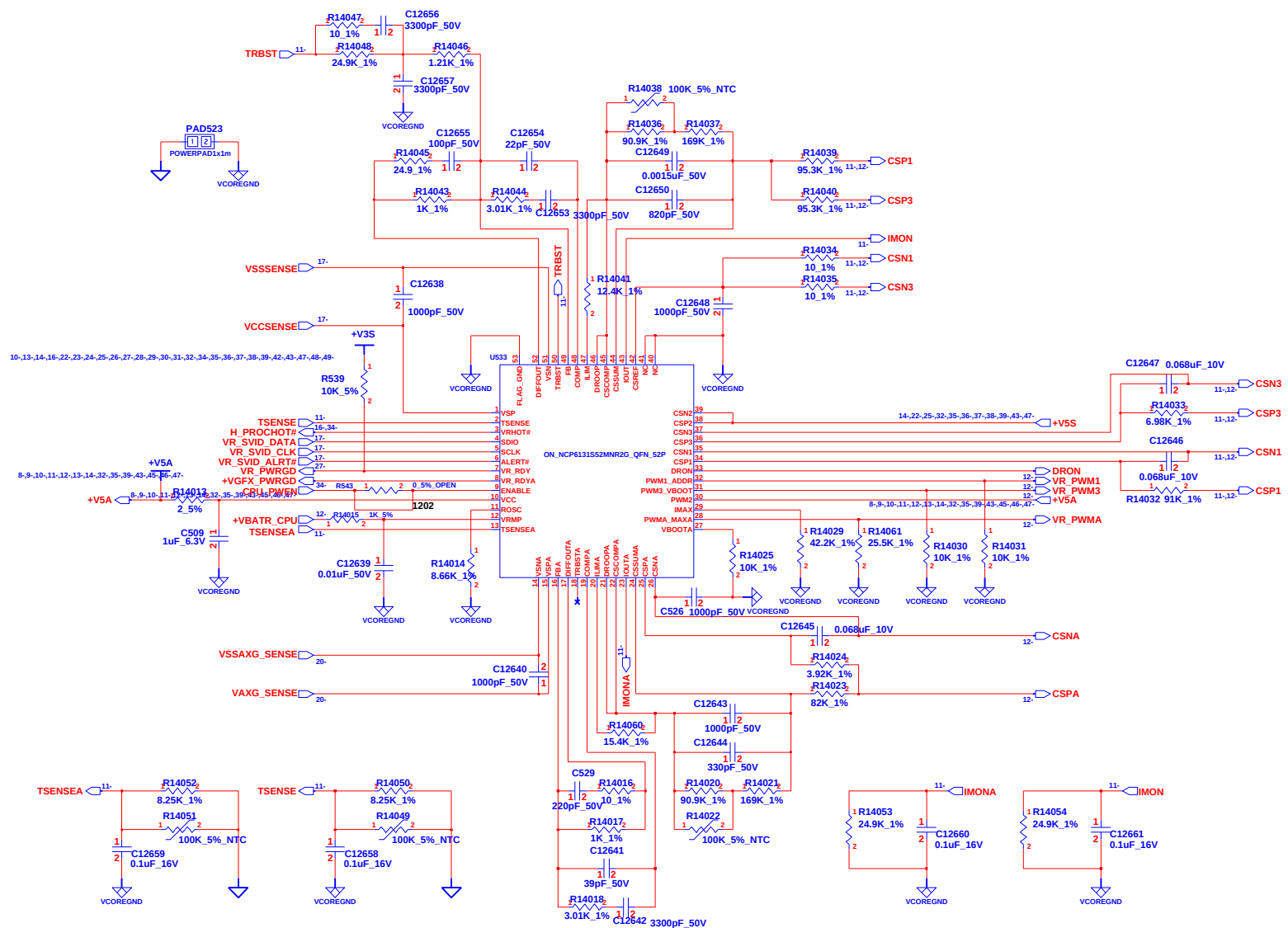






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TITLE KITTY +V1.8S & +VCCSA				
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A	
SHEET		10	OF	51

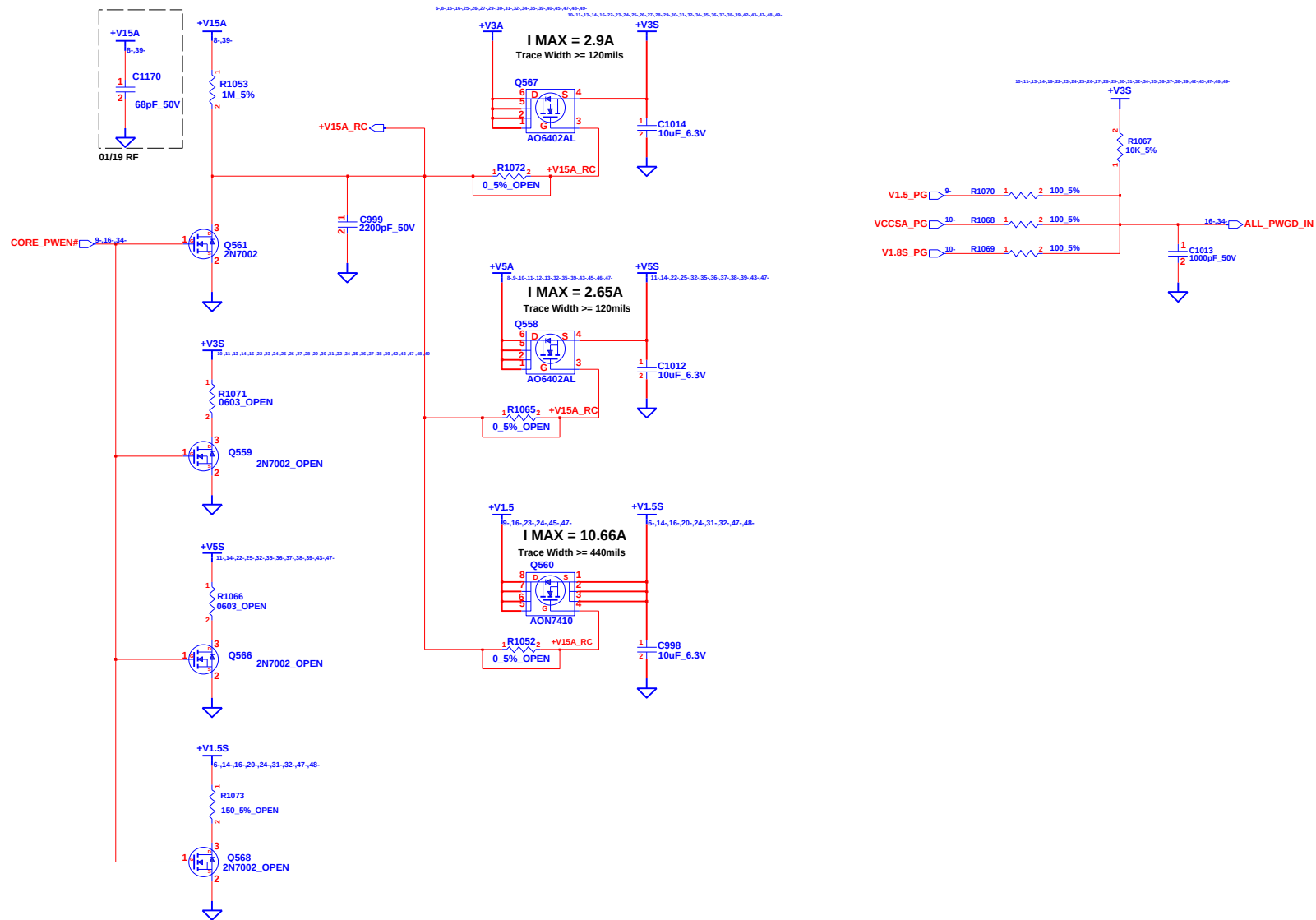
CHANGE by *Chang, Irene* 22-Mar-2011



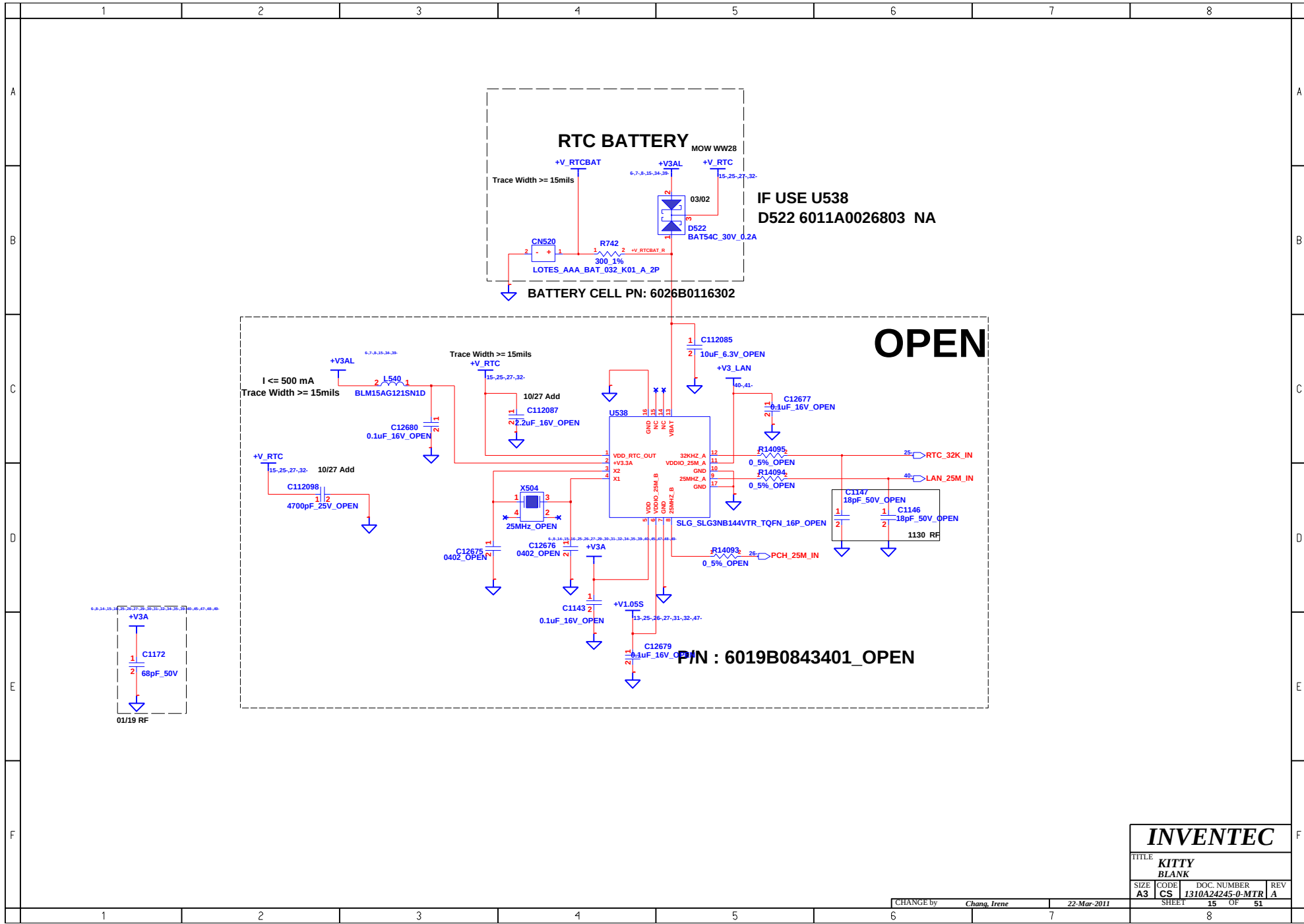
INVENTEC

TITLE			
KITTY +VCC_CORE			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24245-0-MTR	A
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CHANGE by	Chang, Irene	22-Mar-2011
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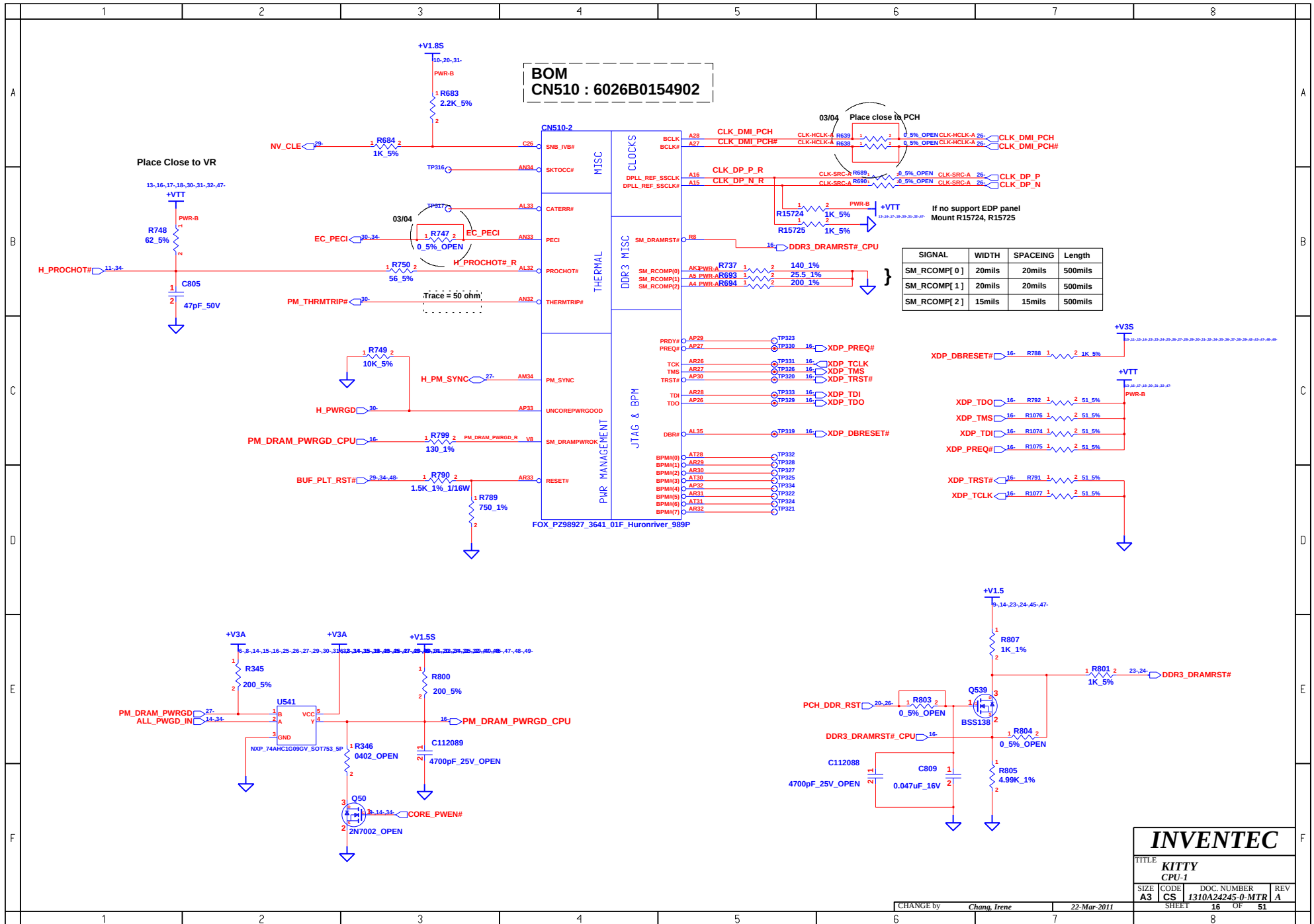
INVENTEC			
TITLE KITTY			
+V5S & +V3S			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
CHANGE by Chang, Irene		22-Mar-2011	
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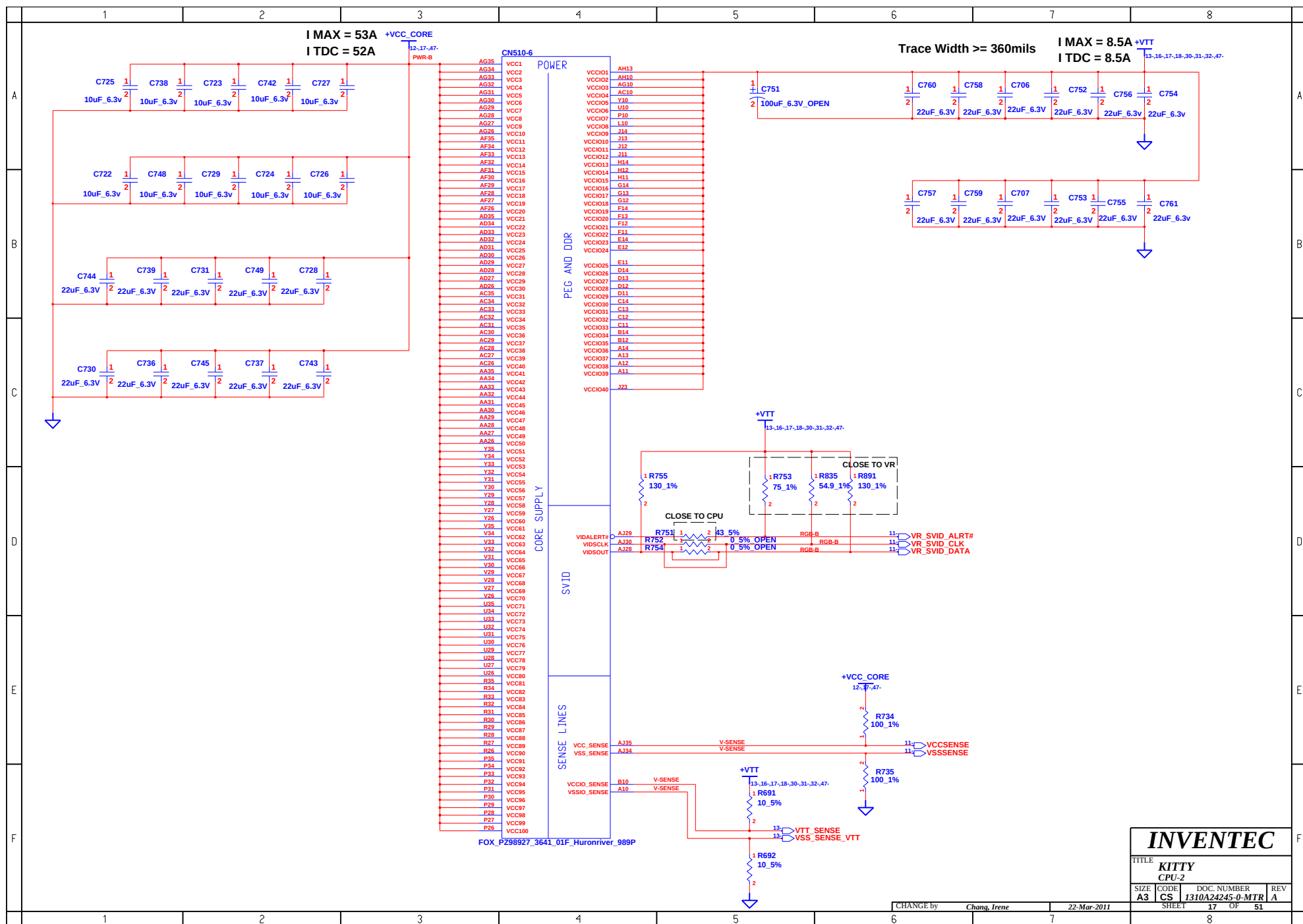


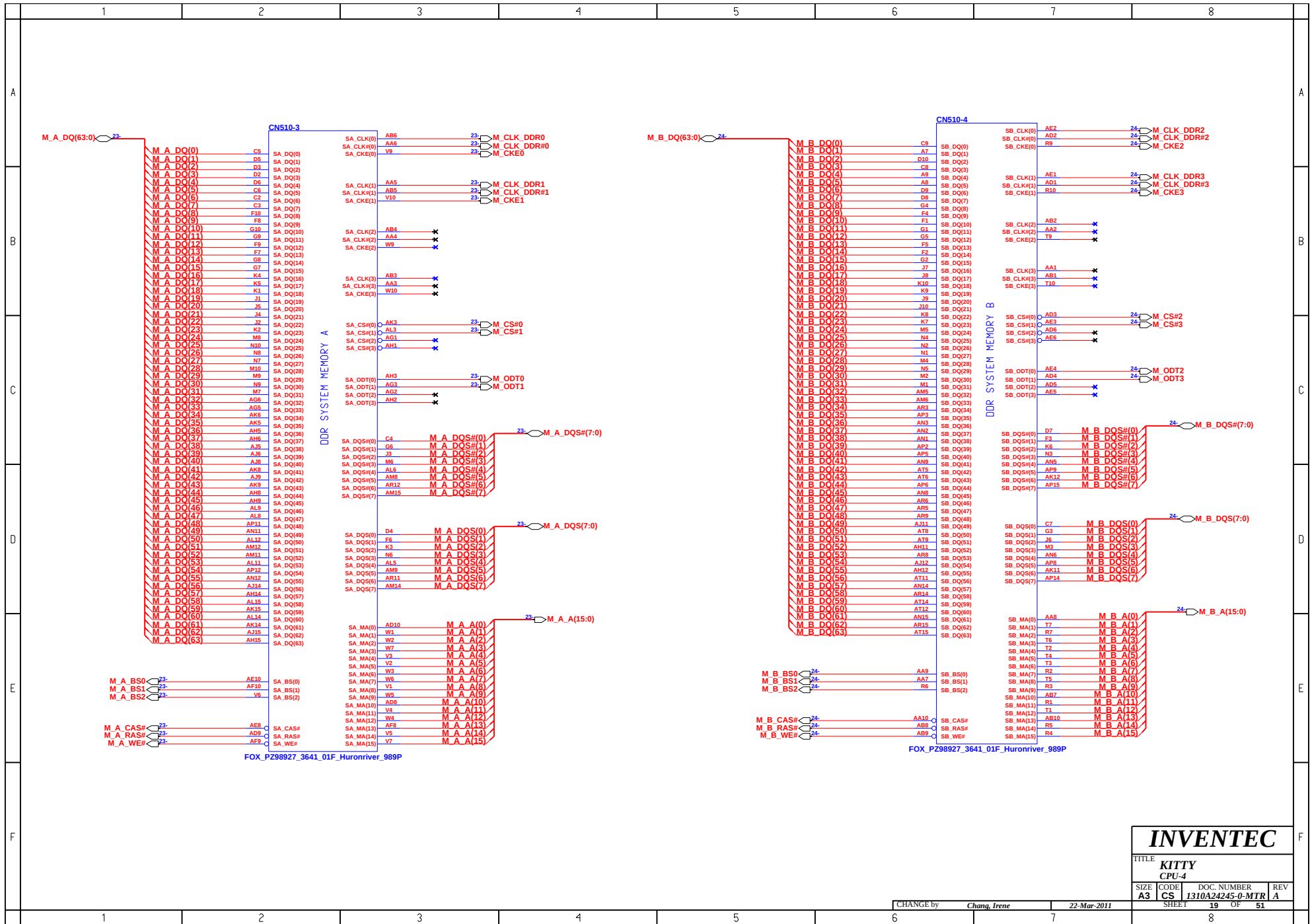
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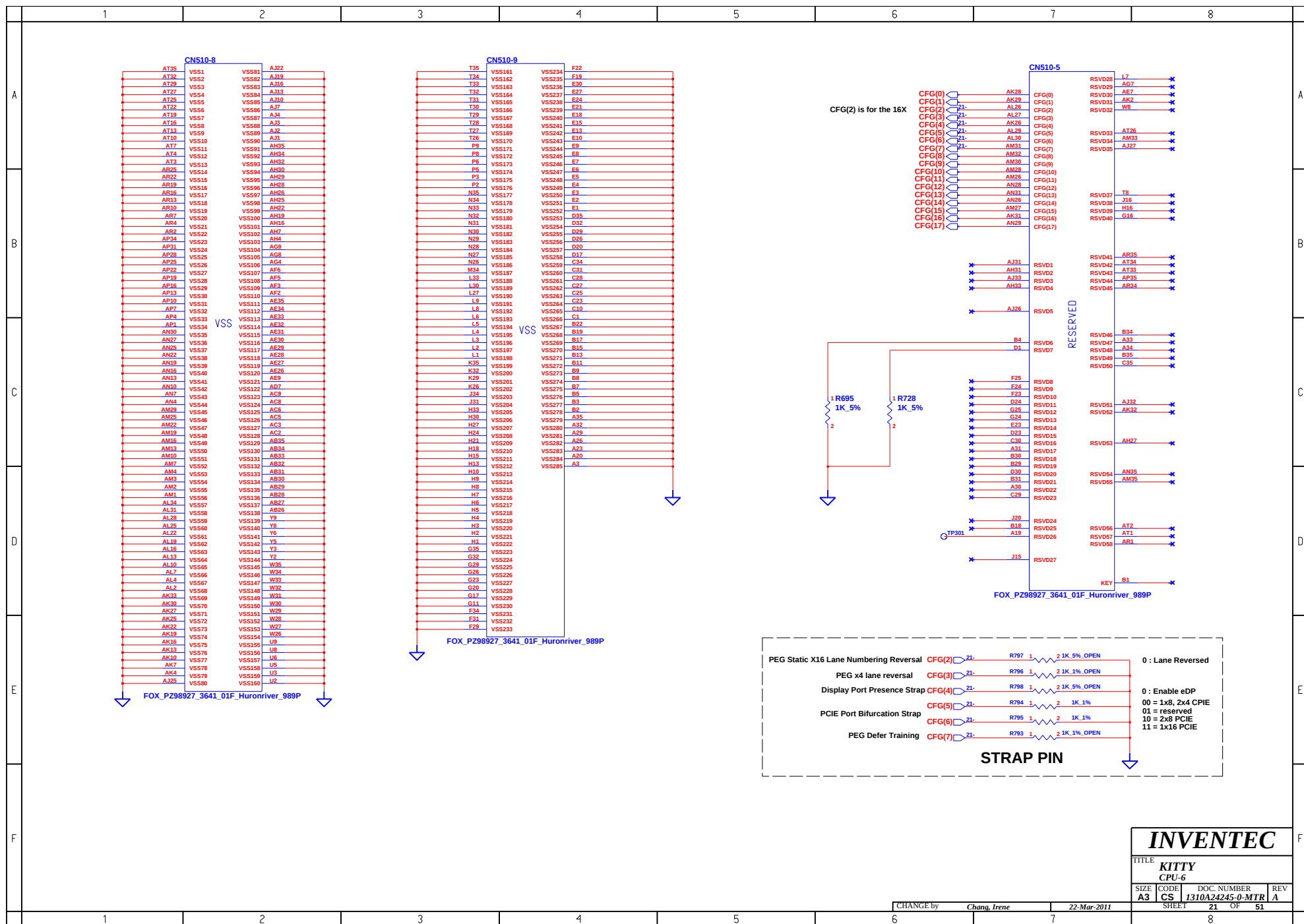
TITLE KITTY BLANK			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
SHEET		15	OF 51

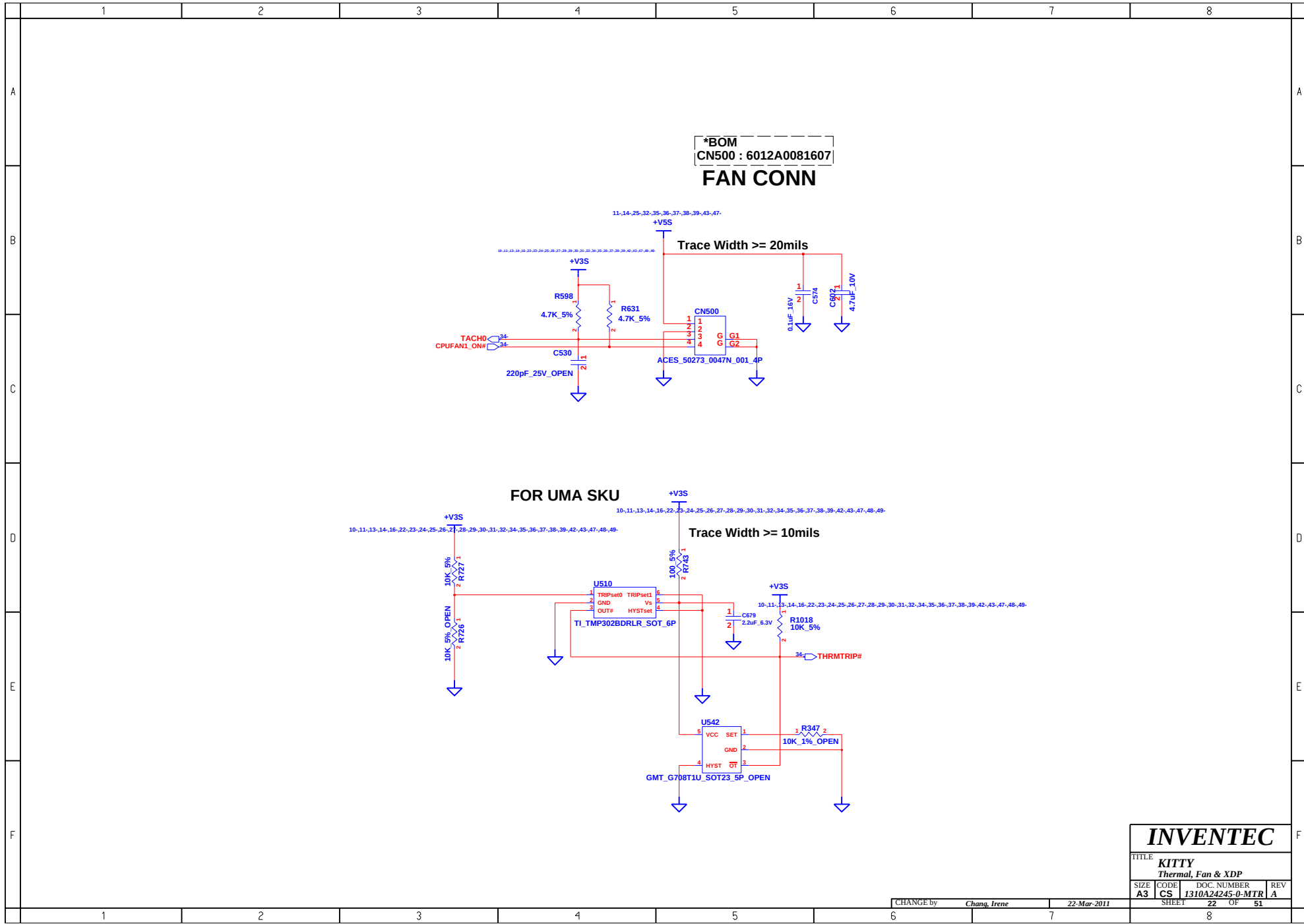
CHANGE by Chang, Irene 22-Mar-2011







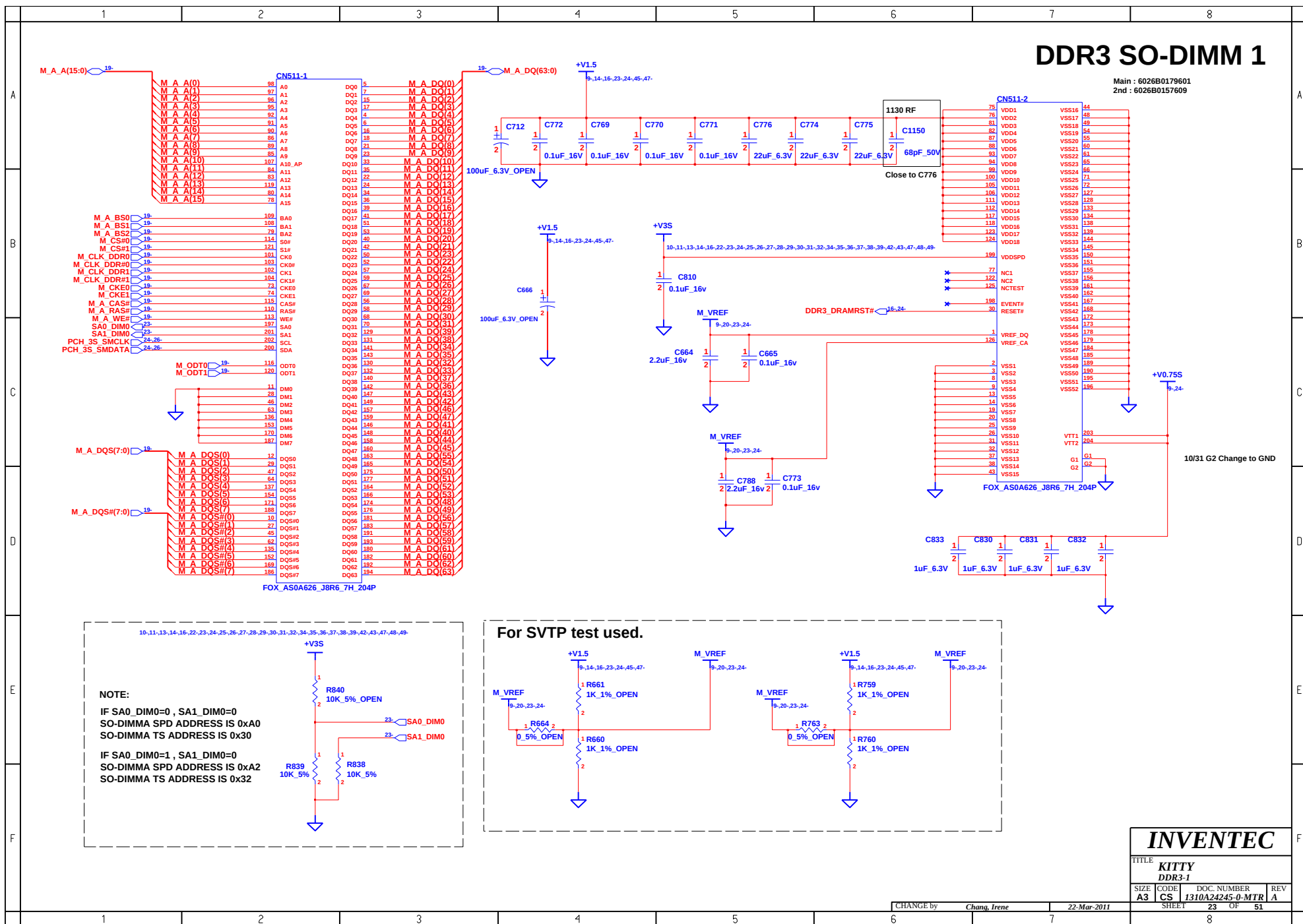




INVENTEC

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



DDR3 SO-DIMM 2

CN1005 (lower) : 6026B0121102
*BOM

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

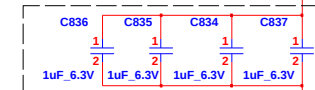
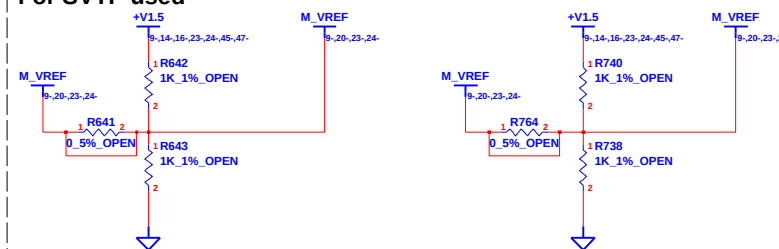
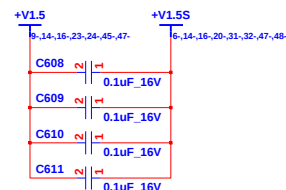
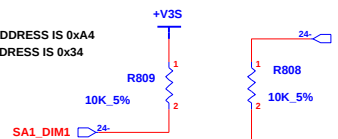
Place these caps
close to VTT1 and
VTT2

Place these caps
close to VTT1 and
VTT2

For SVTP used

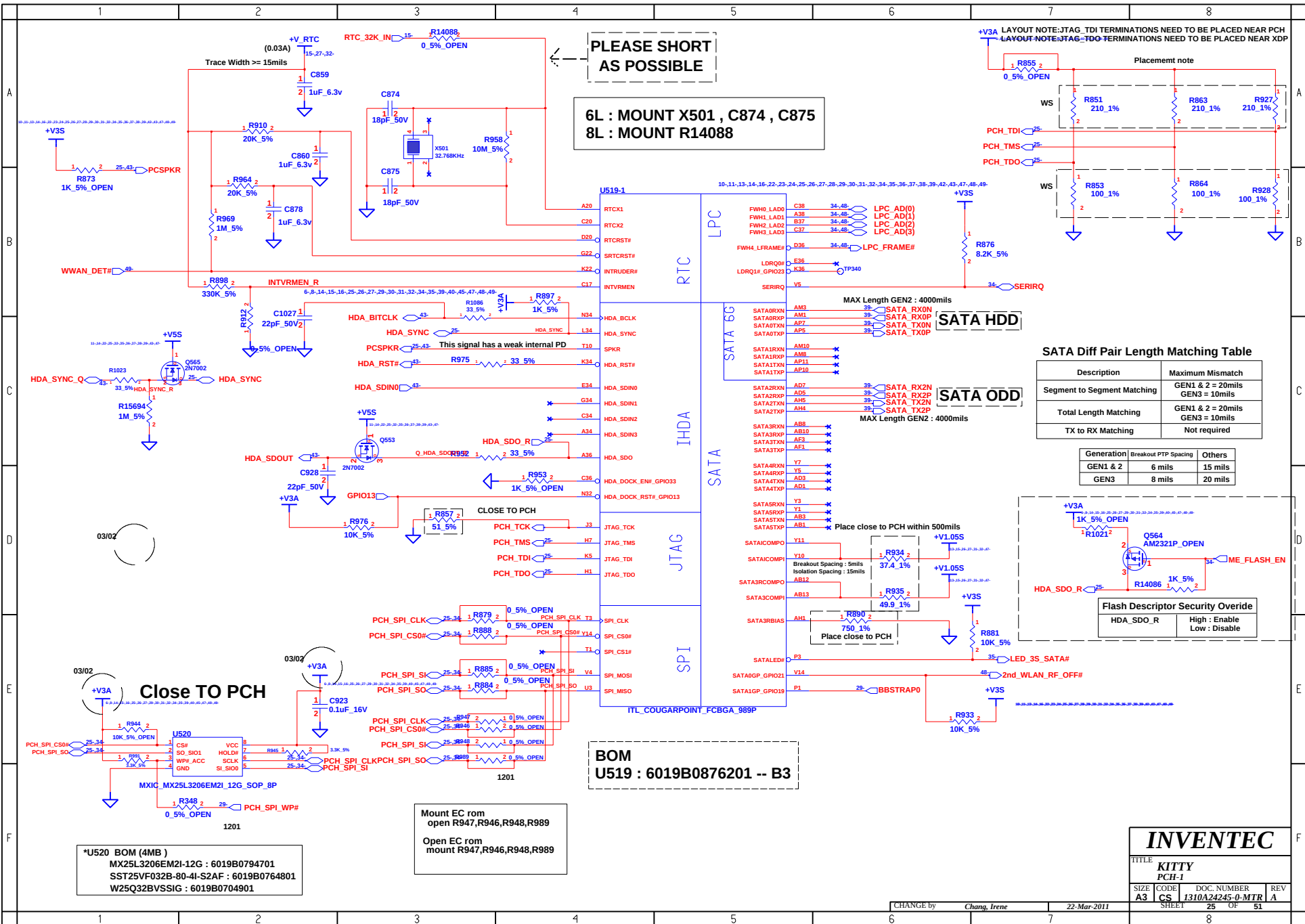
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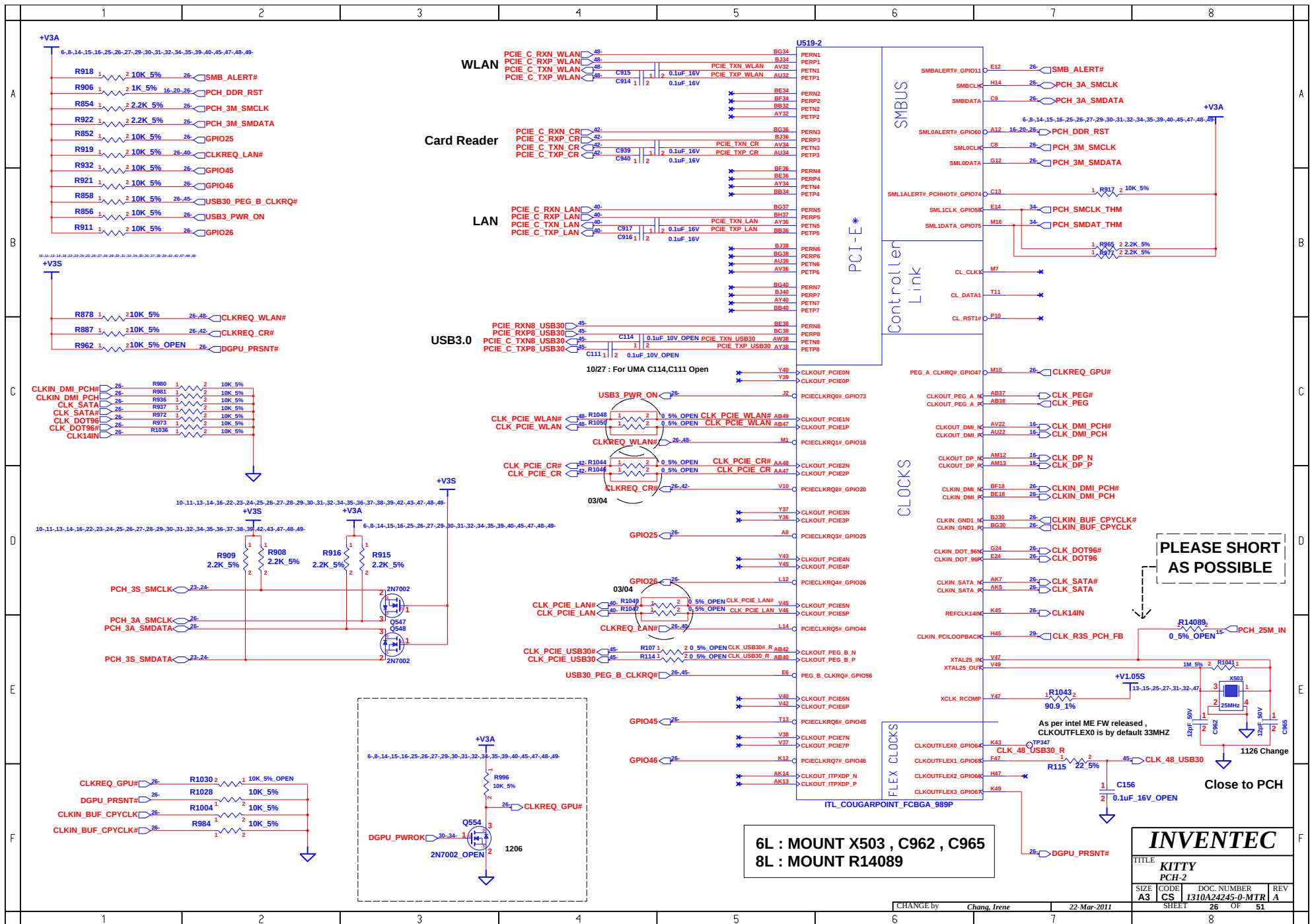
SO-DIMMB SPD ADDRESS IS 0xA4
SO-DIMMB TS ADDRESS IS 0x34

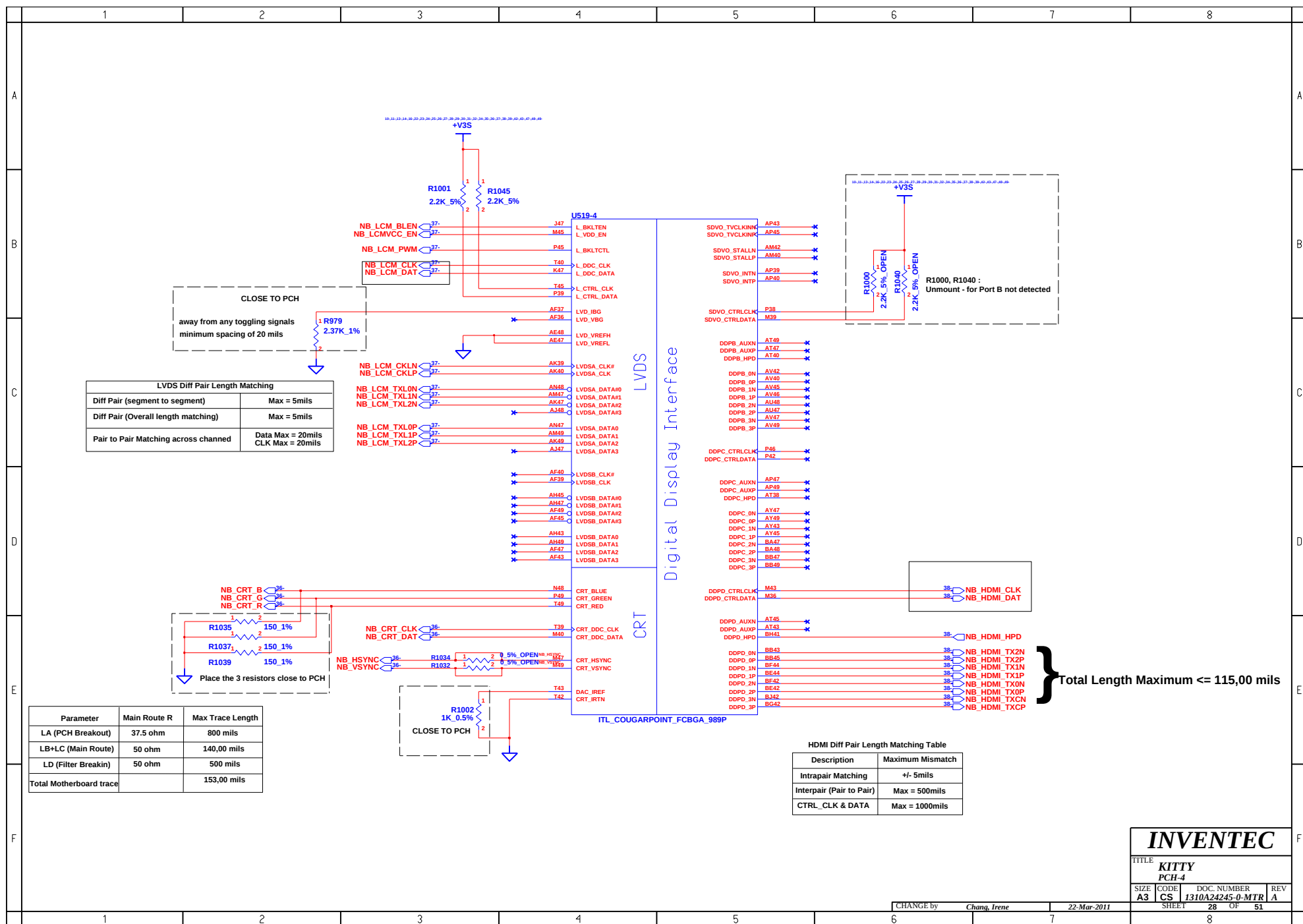


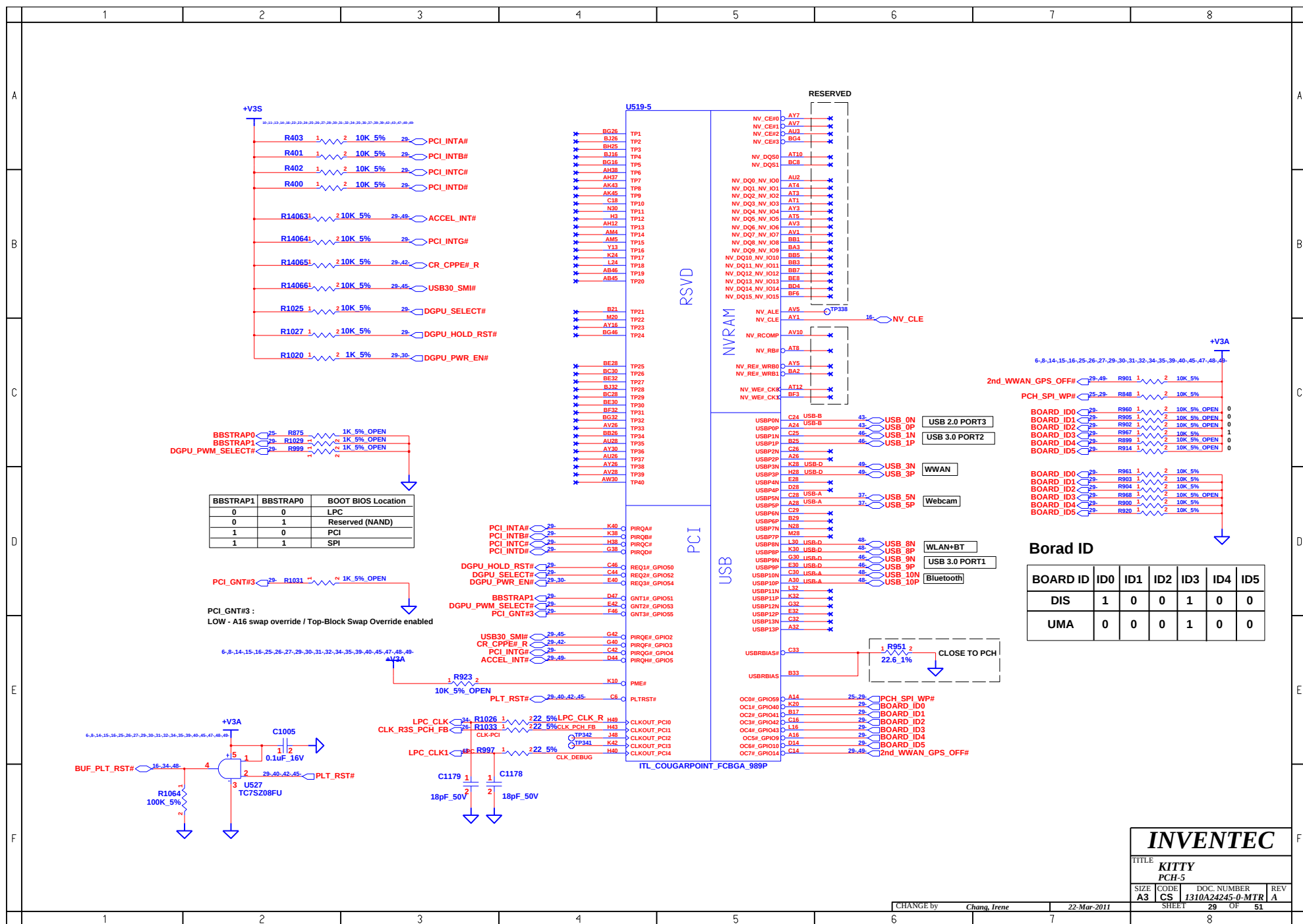
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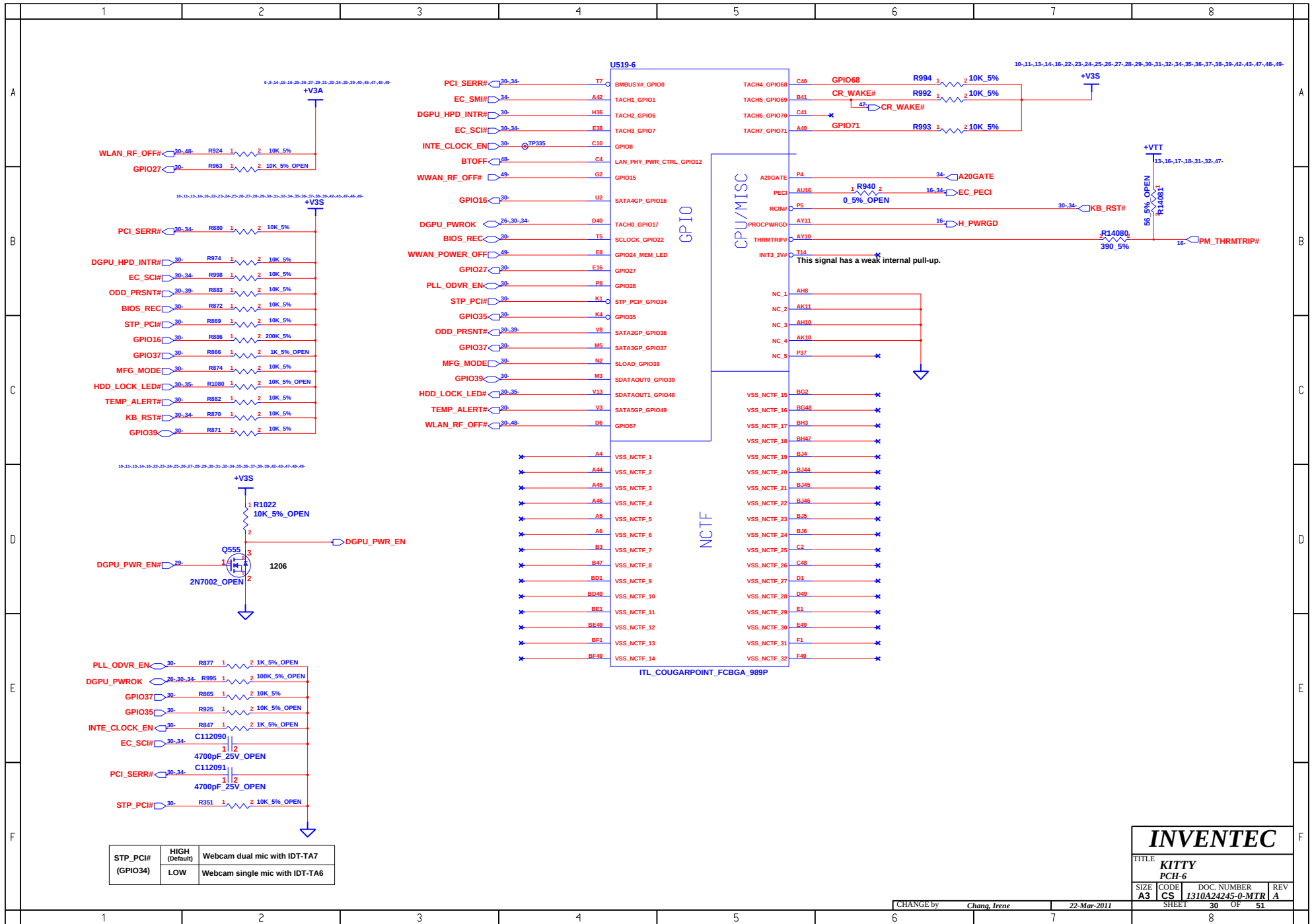
TITLE KITTY DDR3-2			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
CHANGE by Chang, Irene		22-Mar-2011	
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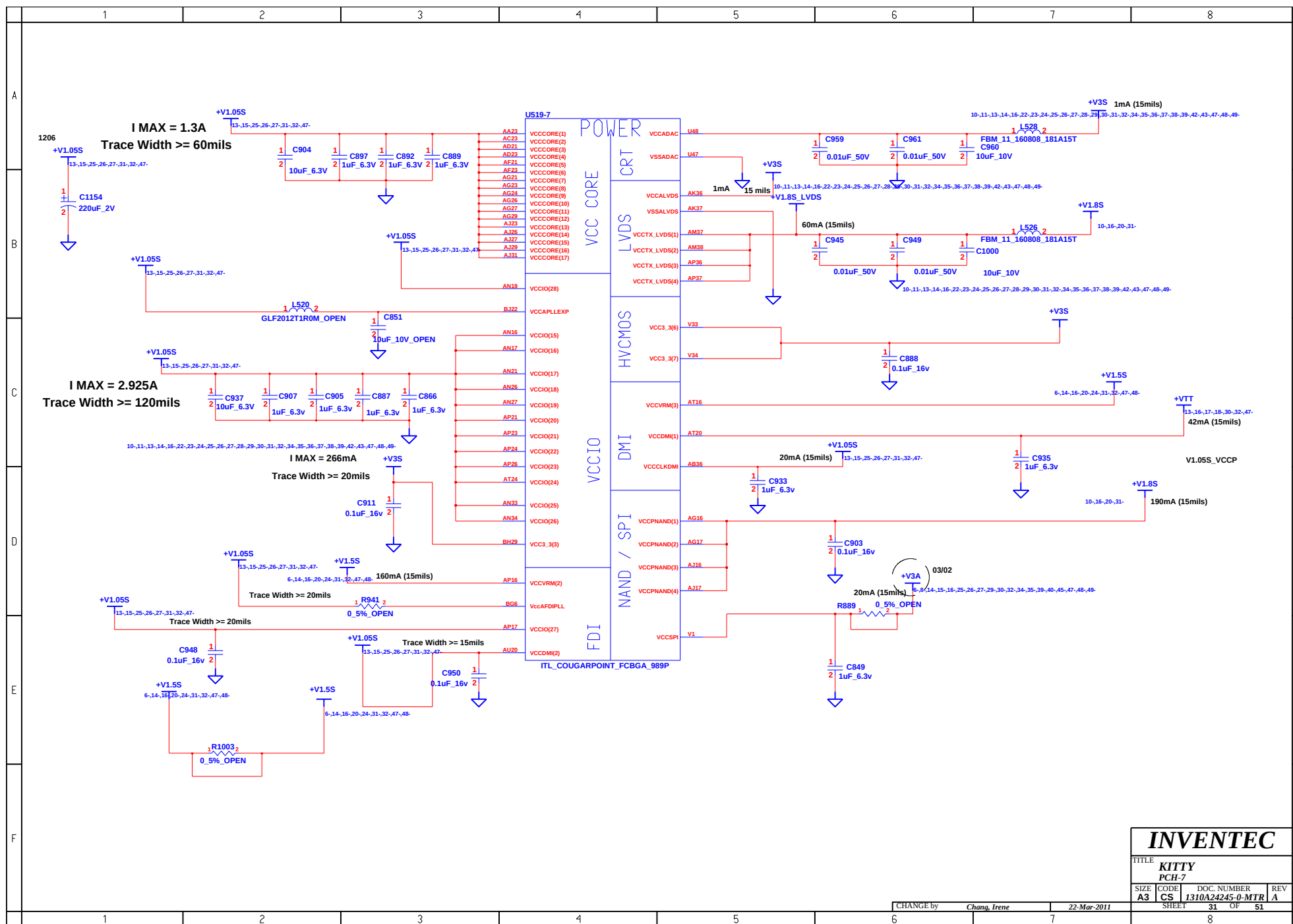


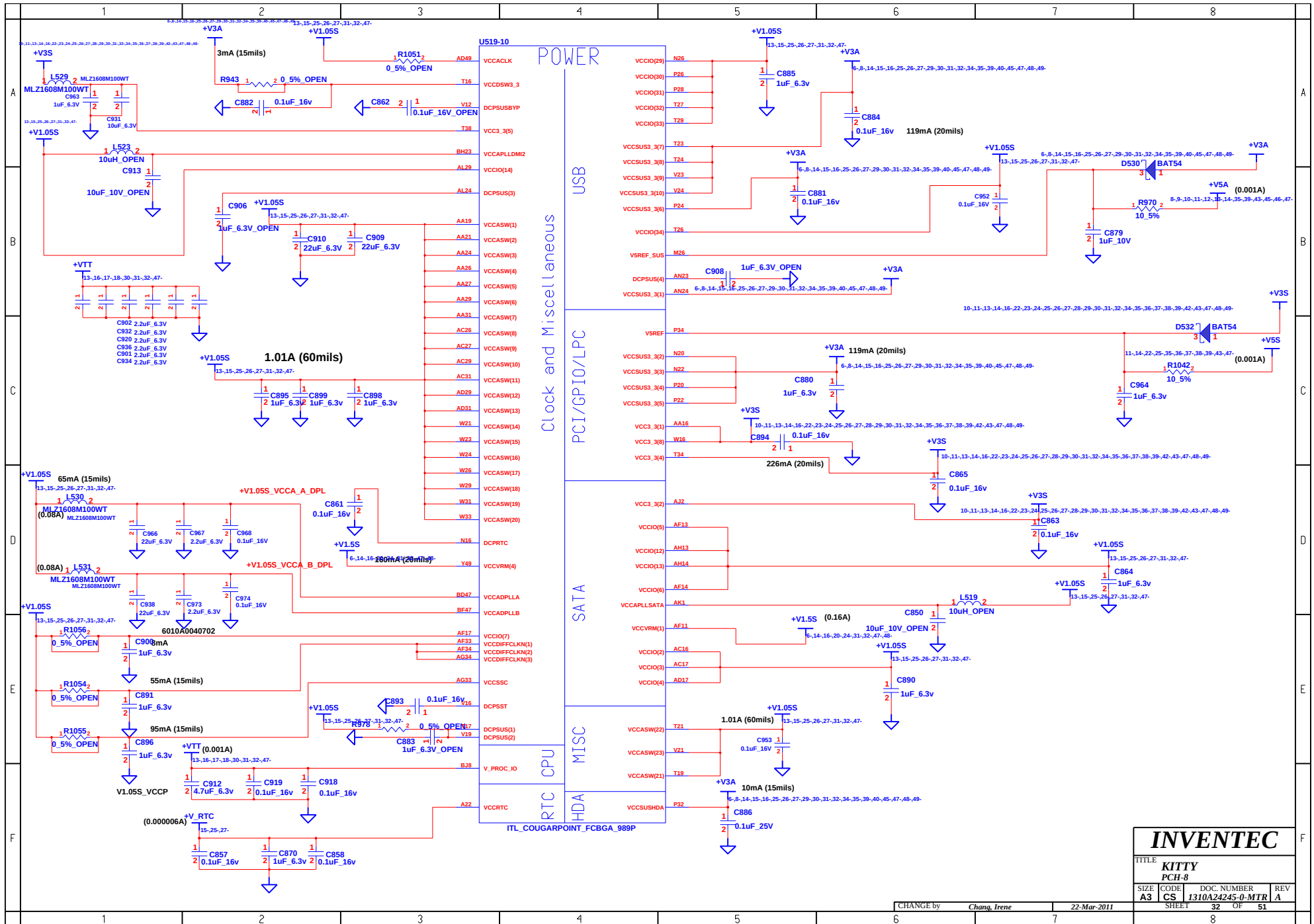








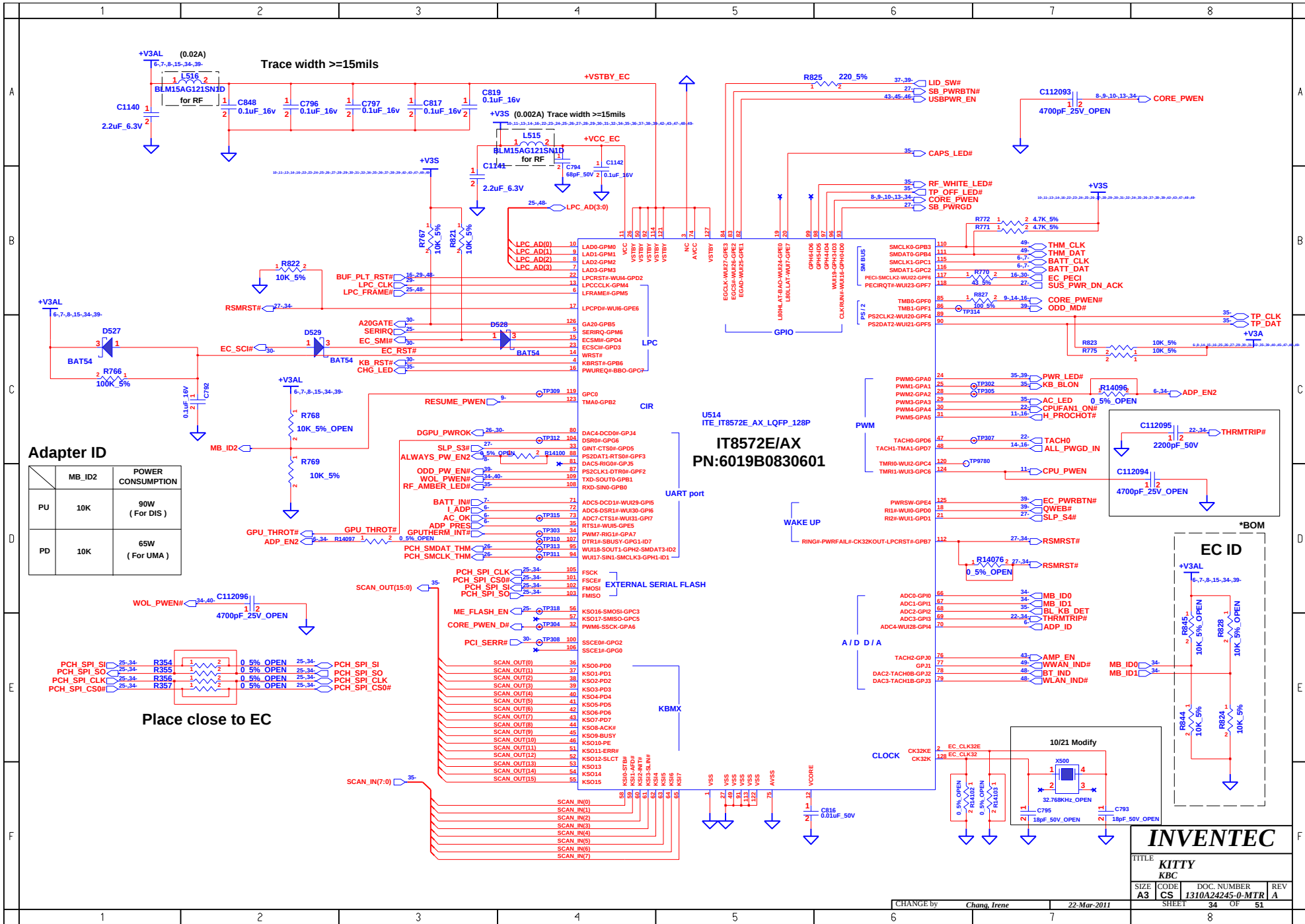


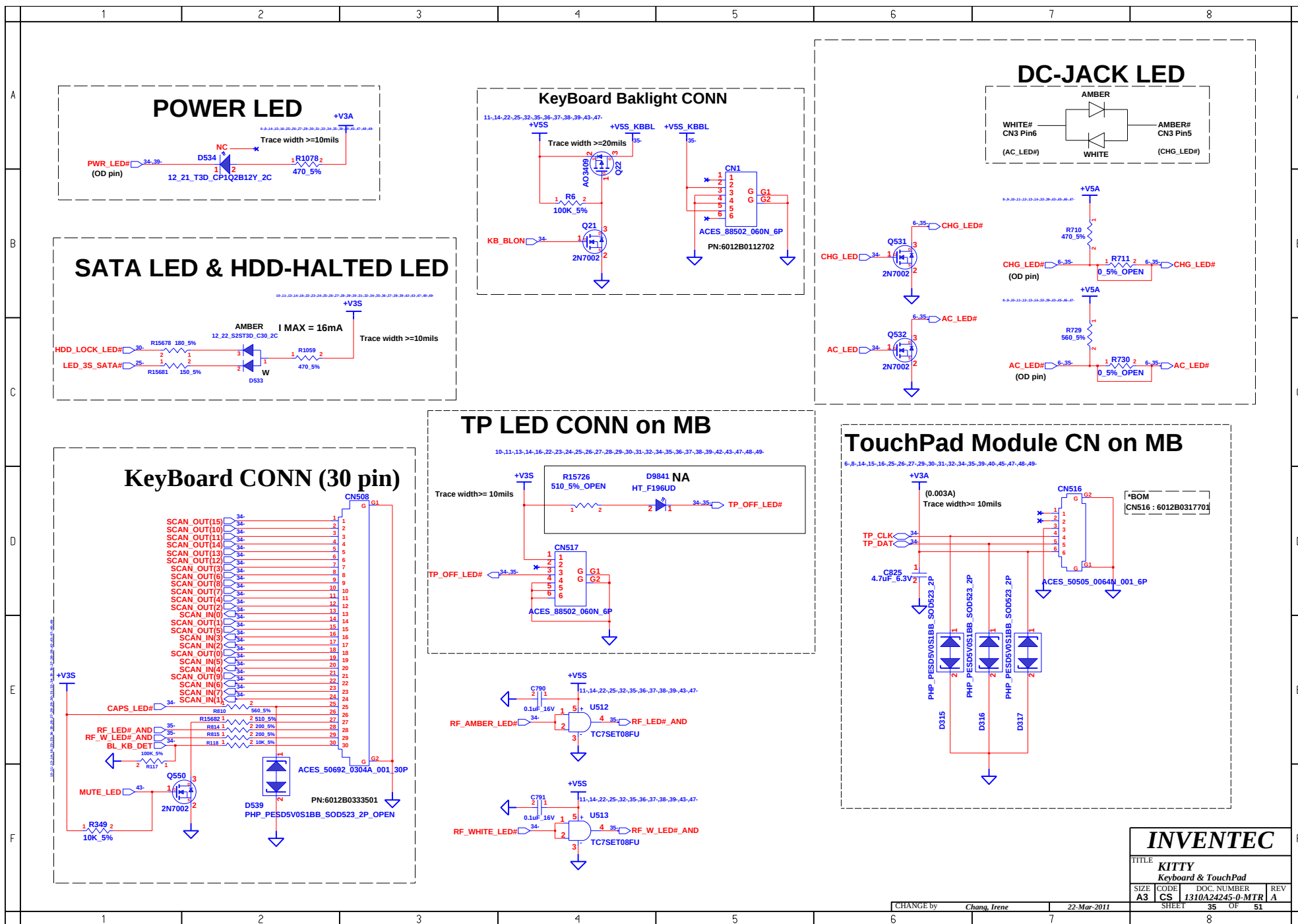


SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24245-0-MTR	A

CHANGE by: Chang, Irene 22-Mar-2011

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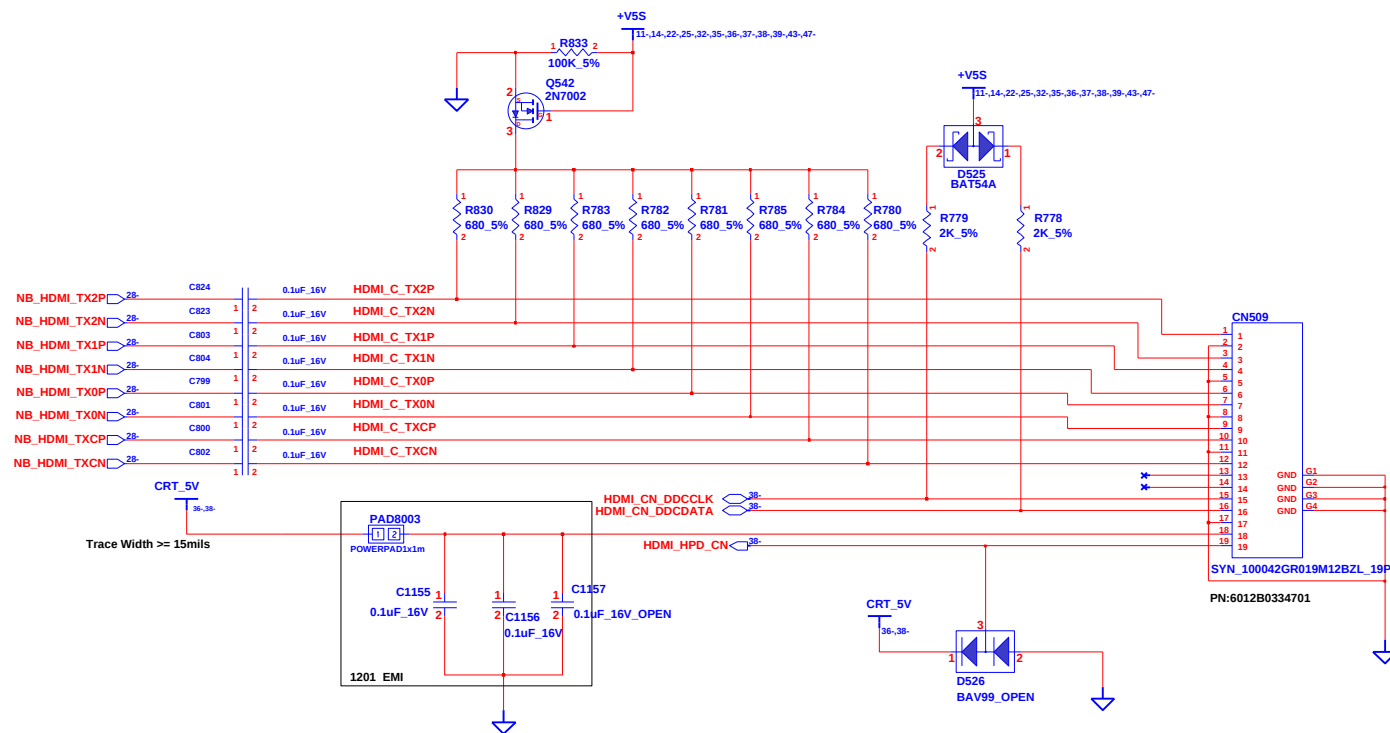




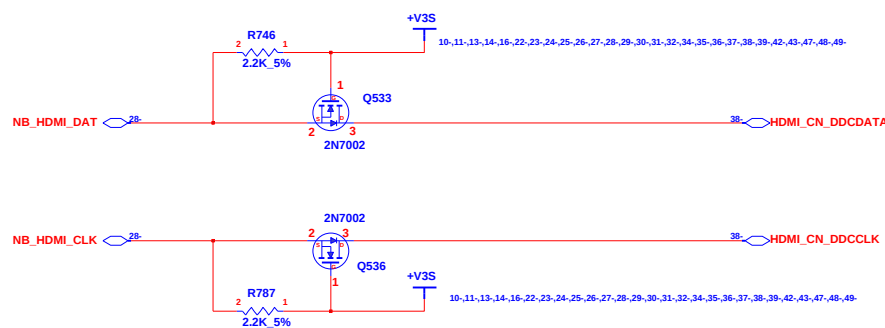
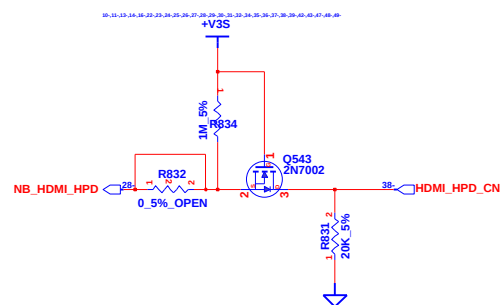
INVENTEC

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

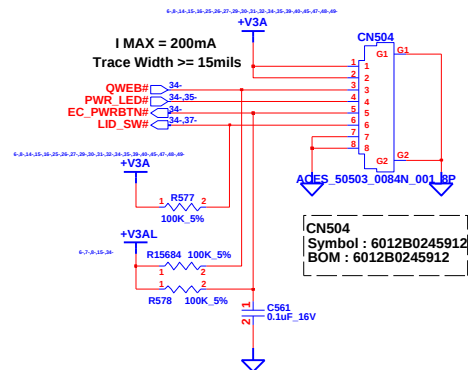


HDMI CONN



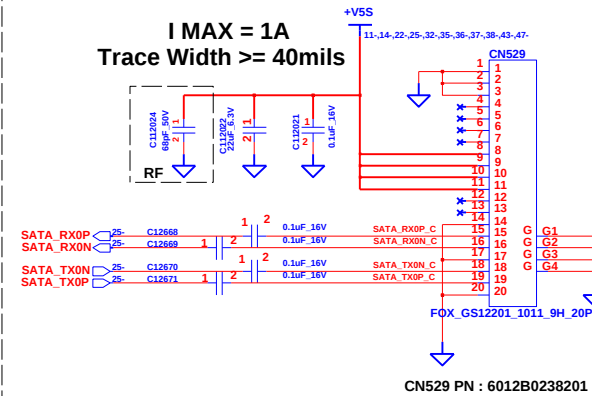
INVENTEC			
TITLE KITTY HDMI Level-Shift			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
CHANGE by Chang, Irene		22-Mar-2011	
SHEET 38		OF 51	

PBN Cable CN on MB



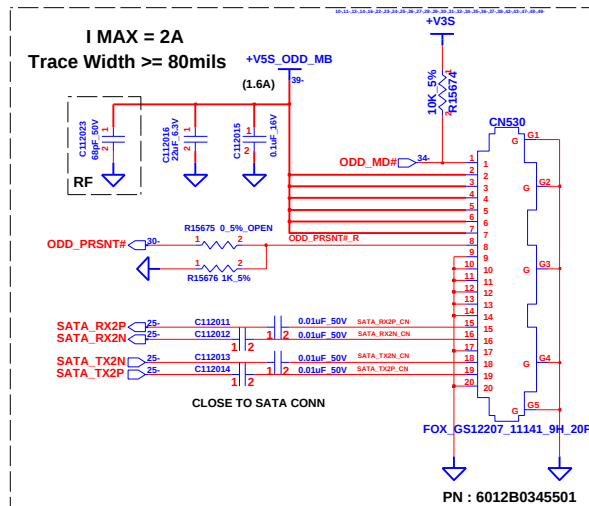
SATA HDD CONN on MB

I MAX = 1A
Trace Width >= 40mils



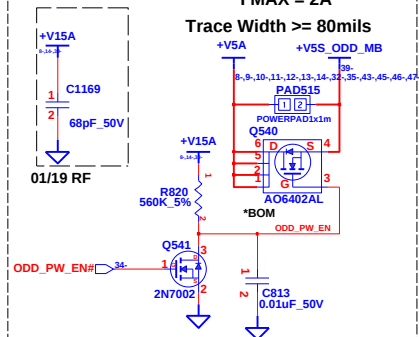
SATA ODD CONN on MB

I MAX = 2A
Trace Width >= 80mils



ZERO ODD PWR CONTROL

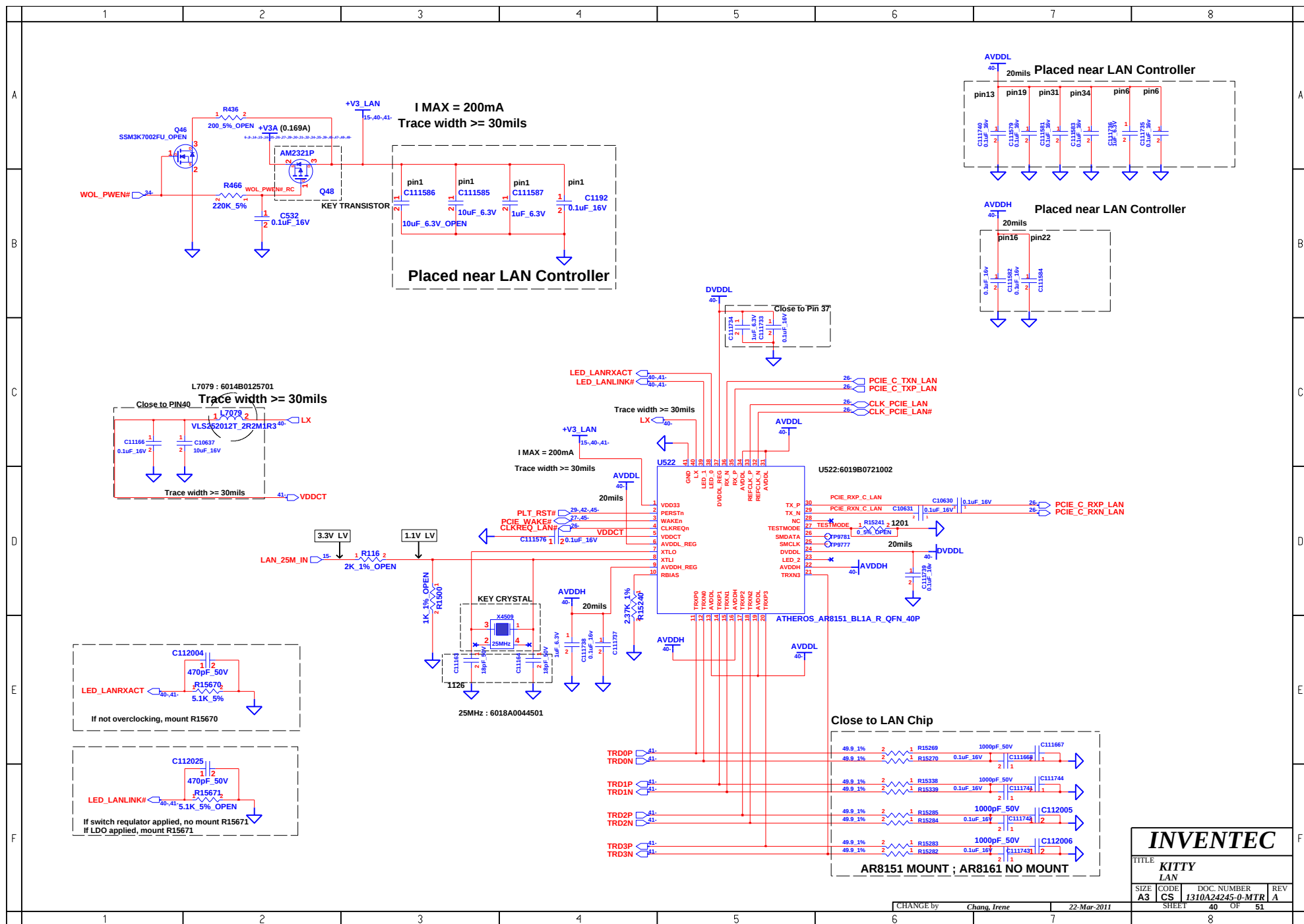
I MAX = 2A
Trace Width >= 80mils

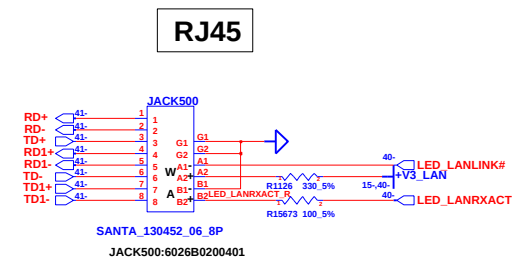


INVENTEC

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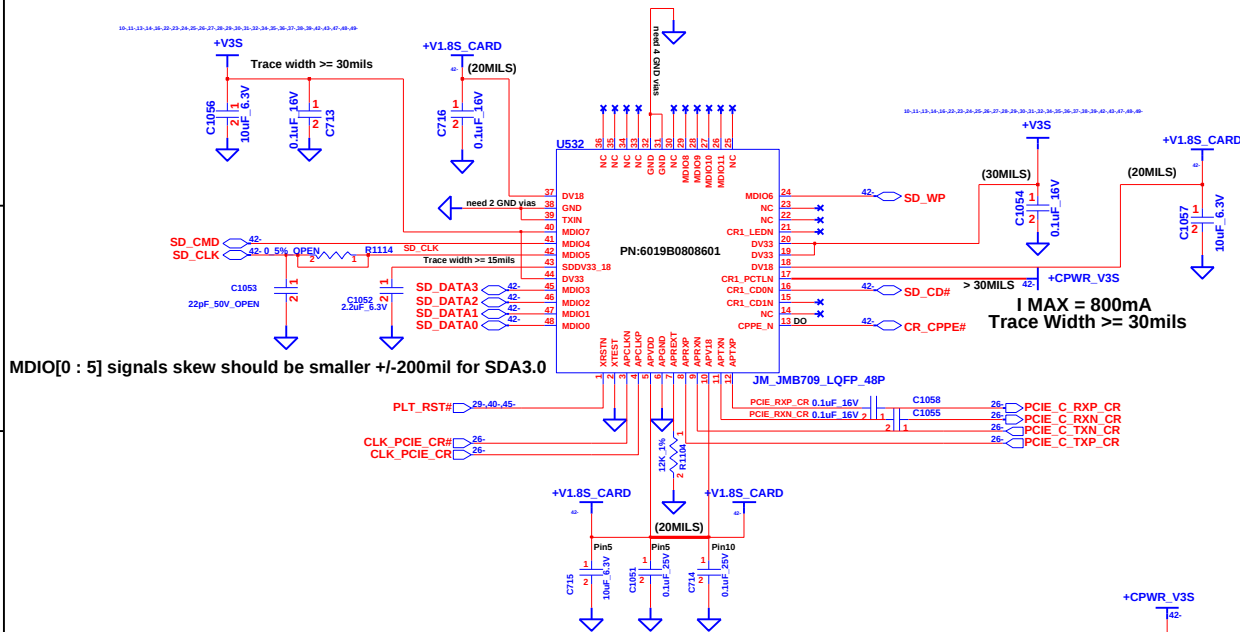




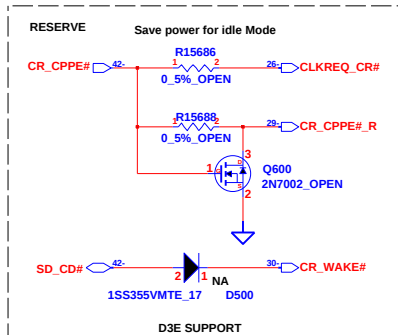
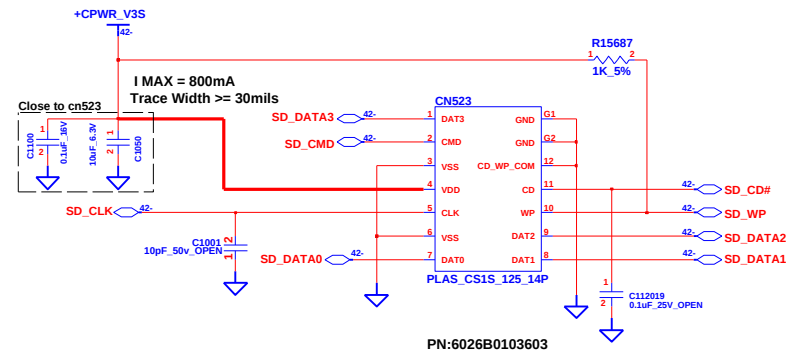
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TITLE KITTY RJ-45			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
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Layout Note :

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

[illegible]

I MAX = 2A

Trace Width >= 100mils

ENTERT_6712K_F24M_02L_24P

USBPWR_EN

USB_0N

USB_0P

SENSE_A

MIC_L

MIC_R

MIC-REF

HP_L_JACK

HP_R_JACK

AGND

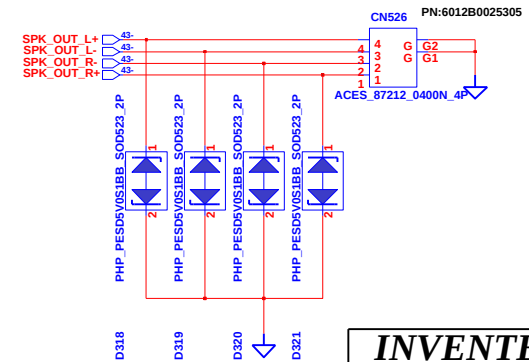
G2

G1

CN506

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

INT-SPEAKER CONN



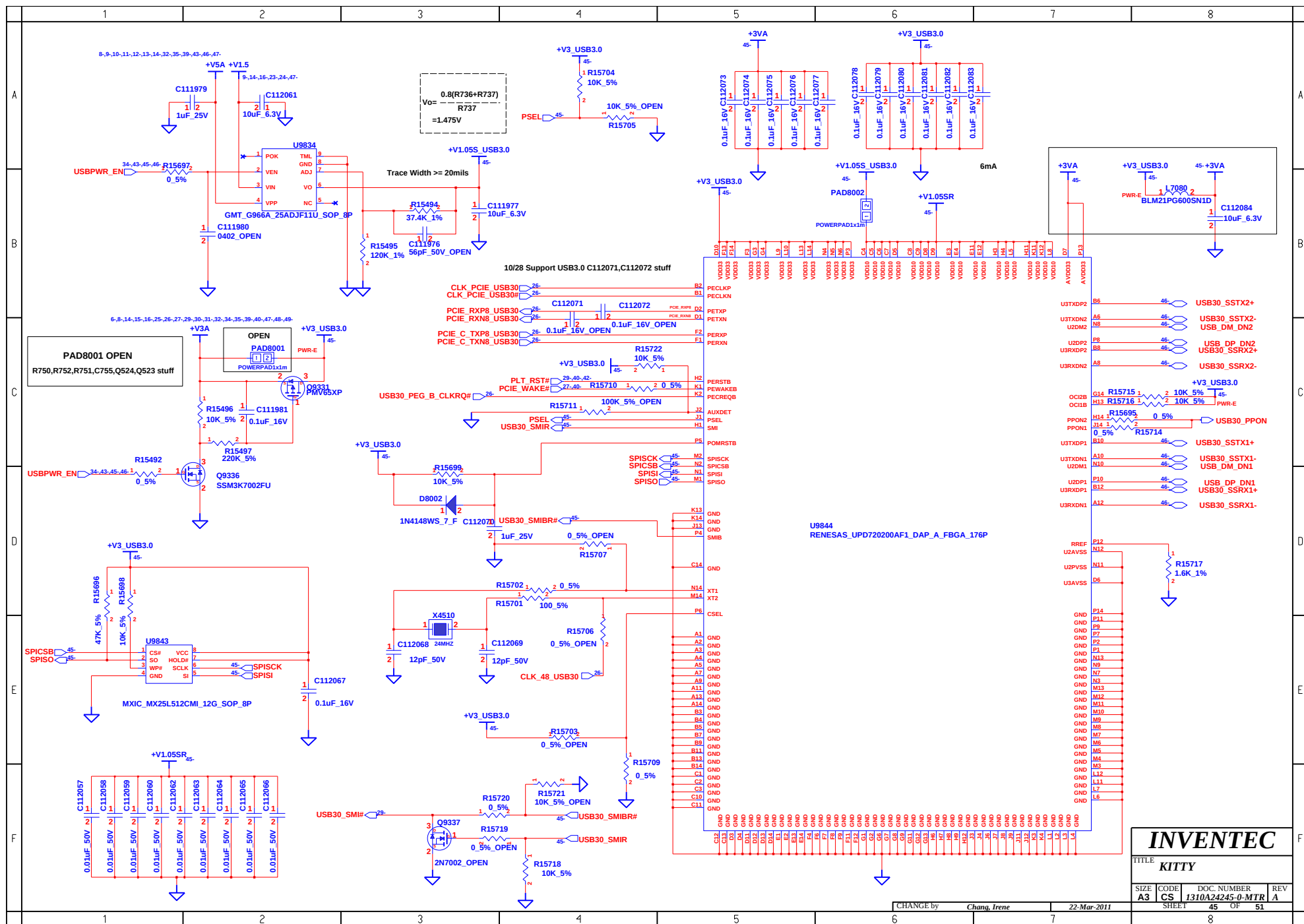
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TITLE			
KITTY <i>Audio Codec</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A24245-0-MTR	A
SHEET		43	OF 51

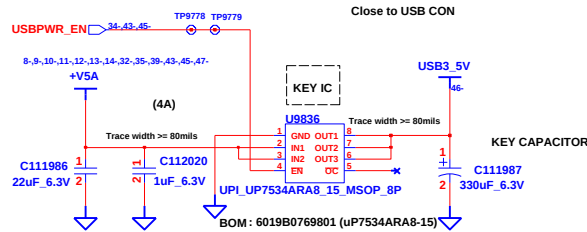
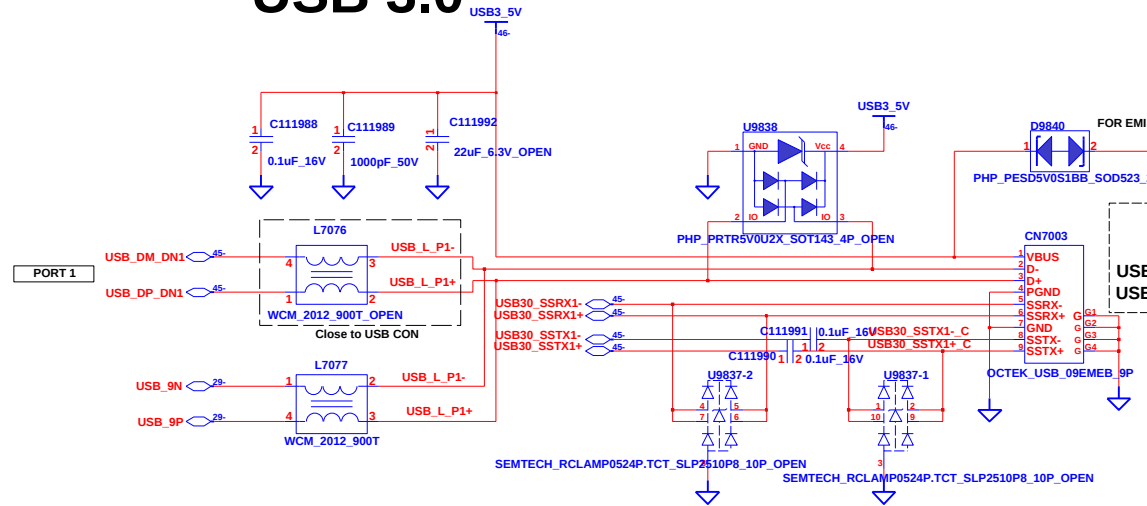
	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

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

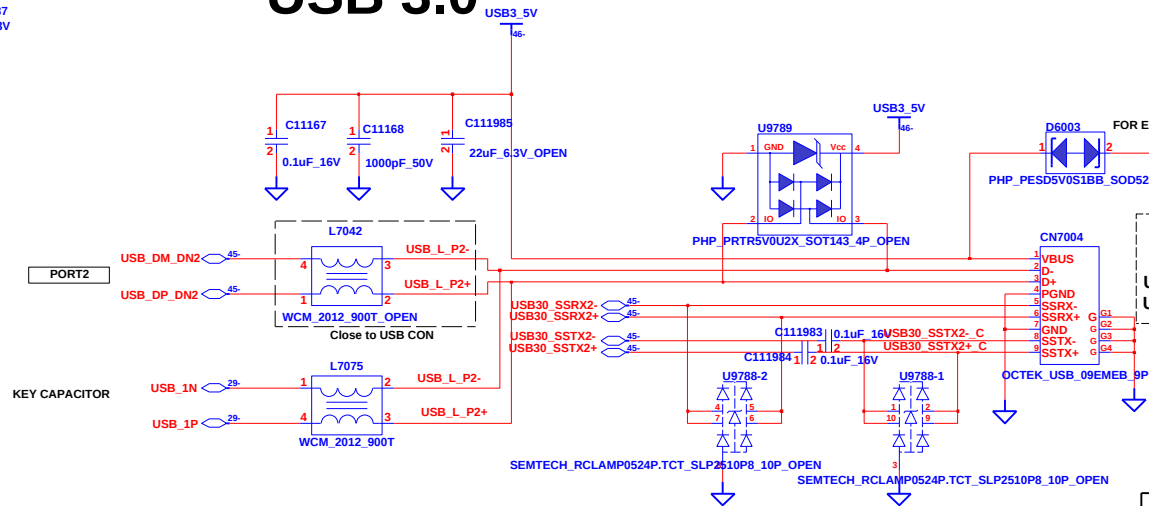
CHANGE by	Chang, Irene	22-Mar-2011
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USB 3.0



USB 3.0

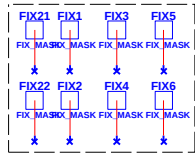


INVENTEC

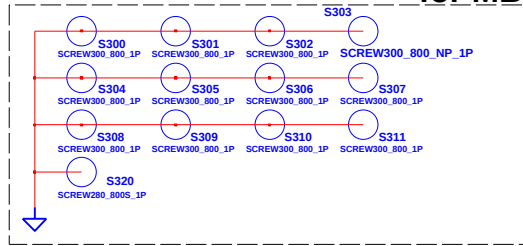
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SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
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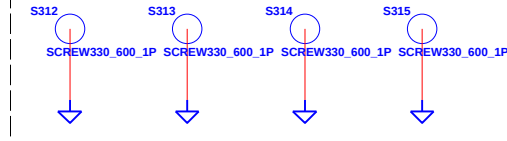
CHANGE by Chang, Irene 22-Mar-2011



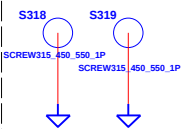
for MB



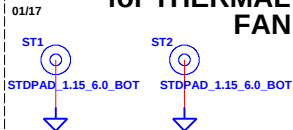
CPU's screws



for PCH



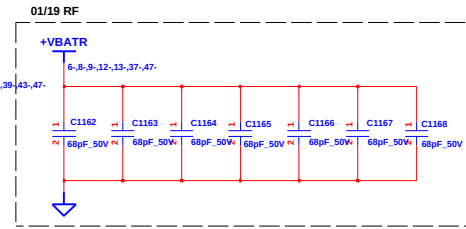
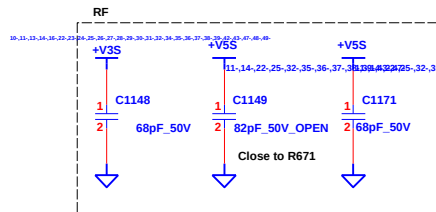
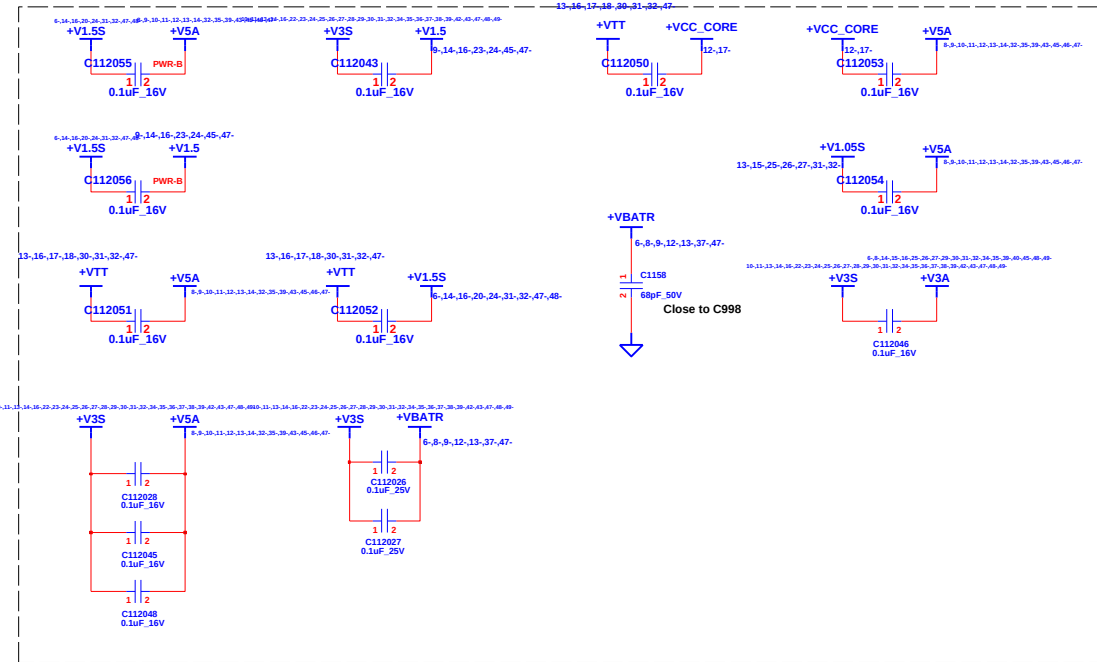
for THERMAL FAN



NUT P/N :
6052B0095601

*BOM

EMI

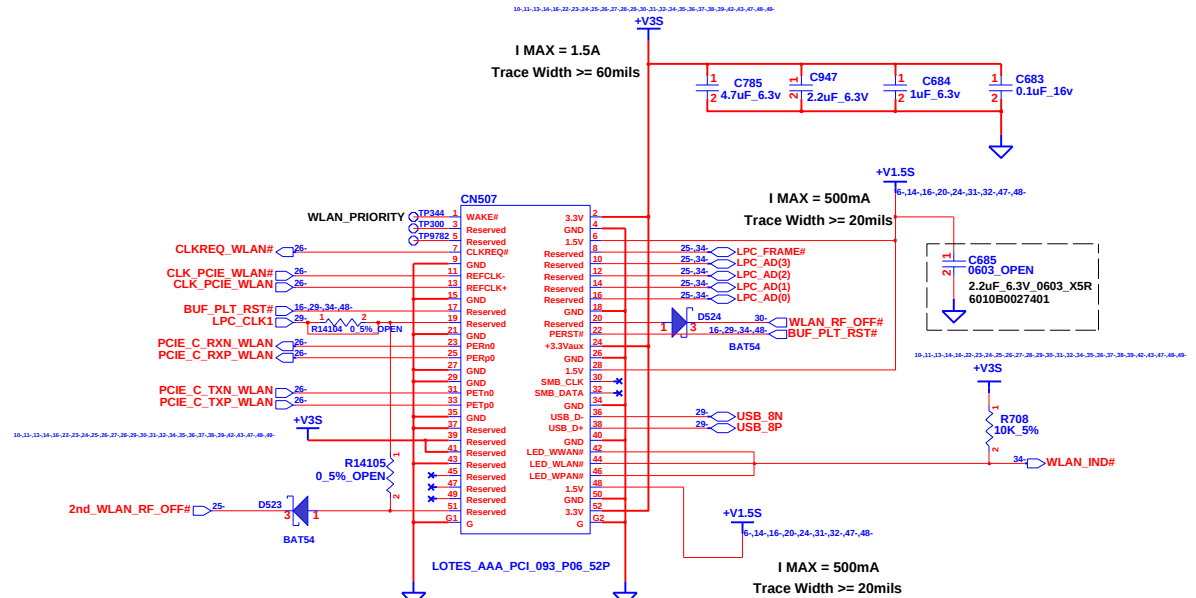
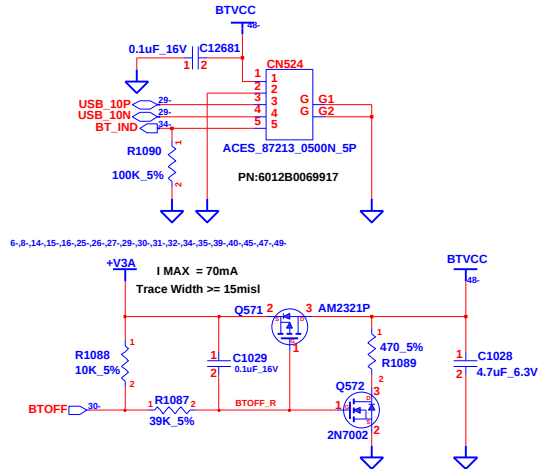


INVENTEC				
TITLE KITTY SCREW & CONN				
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A	
SHEET		47	OF	51

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WLAN CONN (MINICARD)

BLUETOOTH CONN



*BOM
CN507 : 6026B0184301

INVENTEC

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

CHANGE by Chang, Irene 22-Mar-2011

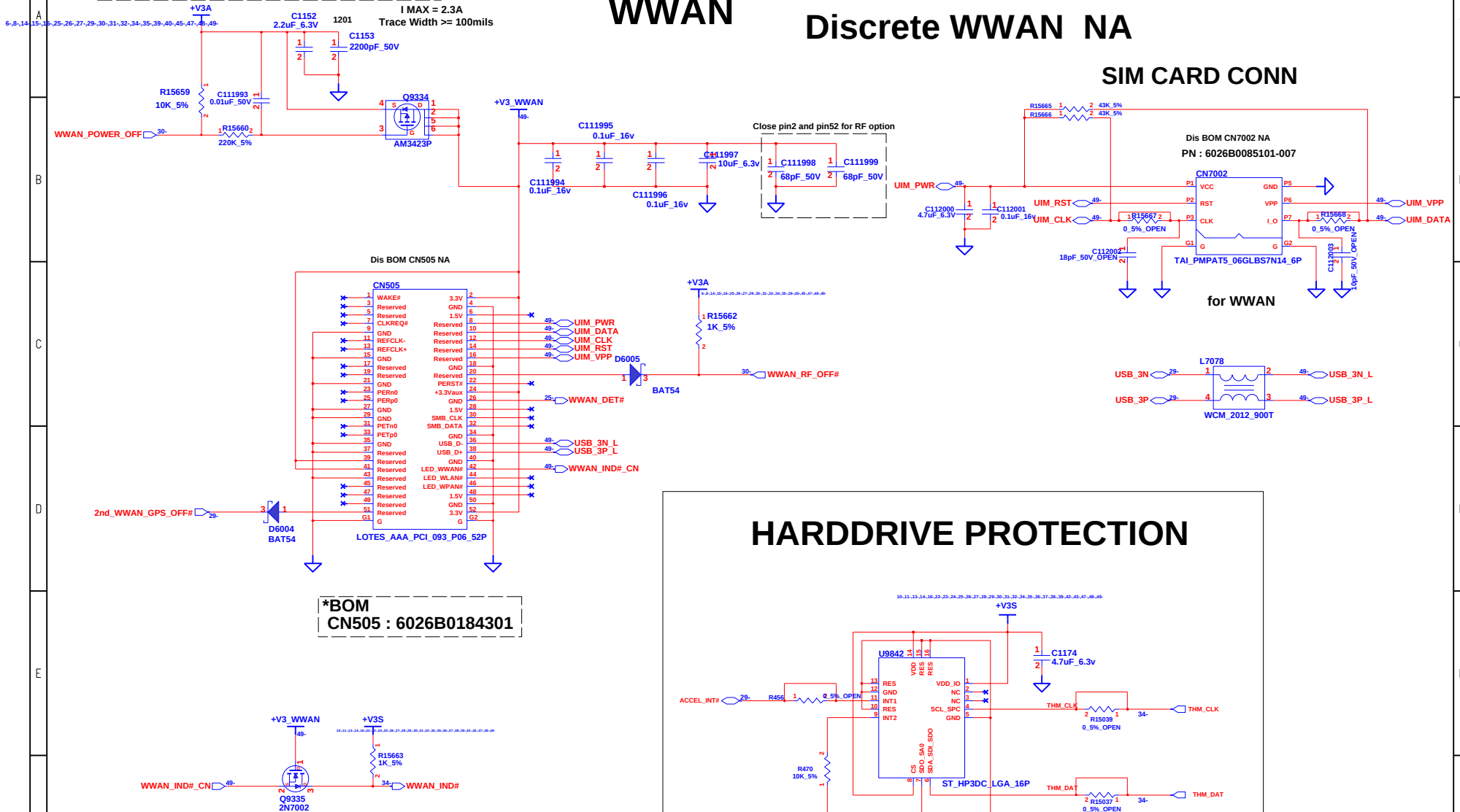
OPTION PART

WWAN

UMA WWAN stuff Discrete WWAN NA

SIM CARD CONN

HARDDRIVE PROTECTION



*BOM
U15 : 6019B0800501

SMBus Address is "001100xb"
If SA0 pad is connected to voltage, LSb is '1'
If SA0 pad is connected to GND, LSb is '0'

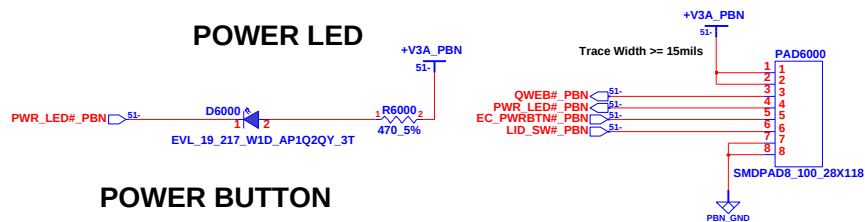
INVENTEC

TITLE KITTY USB CONN			
SIZE A3	CODE CS	DOC. NUMBER 1310A24245-0-MTR	REV A
SHEET 49		OF 51	

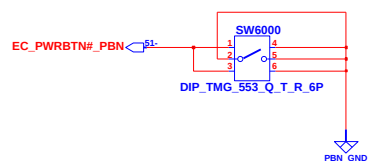
CHANGE by Chang, Irene 22-Mar-2011

POWER BOTTON BOARD

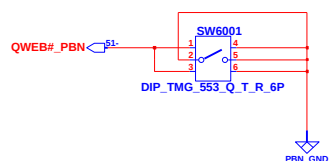
POWER LED



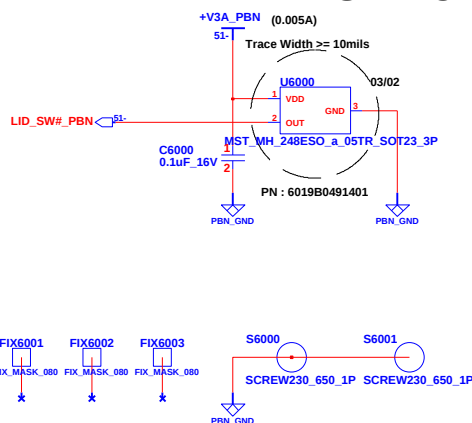
POWER BUTTON



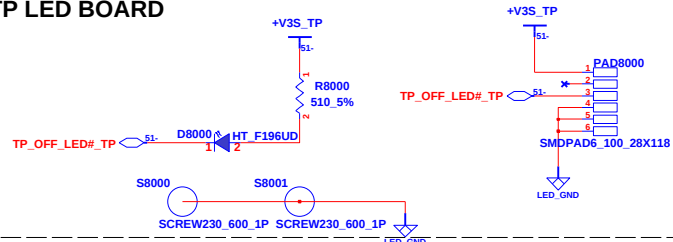
QWEB BUTTON



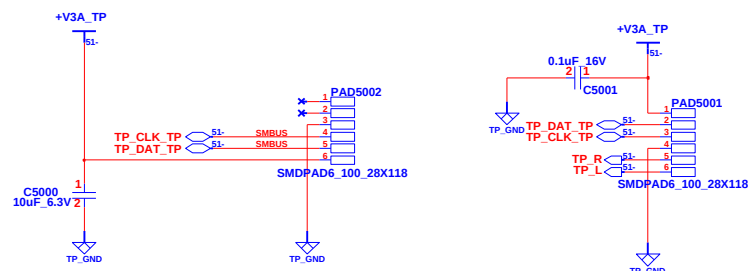
LID SWITCH



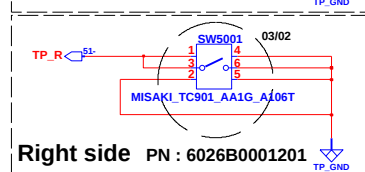
TP LED BOARD



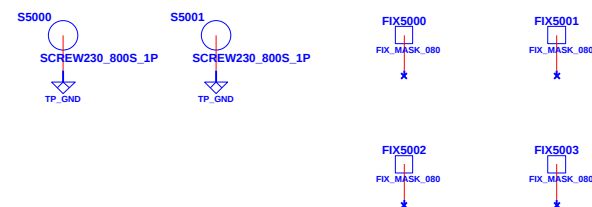
PICK BUTTON BOARD



Left side



Right side



INVENTEC

TITLE
KITTY

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

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SHEET 51 OF 51