

Sacramento 10S

Phoenix 10S

MP BUILD

2008 0123

DATE	CHANGE NO.	REV

DRAWER	EE	DATE	POWER	DATE	INVENTEC			
DESIGN					TITLE			
CHECK					PS10S			
RESPONSIBLE								
SIZE = 3					SIZE	CODE	DOC. NUMBER	REV
FILE NAME : XXXX-XXXXXX-XX					A3	CS	Model No	X01
P/N	XXXXXXXXXXXX				SHEET	1	OF	63

TABLE OF CONTENTS

PAGE	PAGE	PAGE
1.COVER PAGE	33. HDMI TRANSMITTER	58.MDC 1.5 CONN
2.INDEX	34.S/B ICH8 1	59.LED(M/B) & HOTKEY/B CONN
3.BLOCK DIAGRAM	35.S/B ICH8 2	60.PICK BUTTON BOARD
4.POWER SEQUENCE BLOCK	36.S/B ICH8 3	61.KILL SWITCH& HALL SENSOR
5-12.SYSTEM POWER	37.S/B ICH8 4	62.DRILL HOLE
13.CLOCK GENERATOR	38.S/B ICH8 5	63.EMI
14.CPU Merom1	40.3 IN 1 CARD SLOT	
15.CPU Merom2	41.CARDBUS CONTROLLER	
16.CPU Merom3	42.PCMCIA CONN	
17.CPU Merom4		
18.FAN & THERMAL CONTROLLER	43.EXPRESS CARD CONN	
19.N/B Crestline 1	44.LAN CONTROLLER	
20.N/B Crestline 2	45.RJ45 & TRANSFORMER	
21.N/B Crestline 3	46.ROBSON & WLAN	
22.N/B Crestline 4	47.SATA HDD1 CONN	
23.N/B Crescline 5	48.CAMERA CONN	
24.N/B Crestline 6	49.ODD CONN	
25.N/B Crestline 7	50.USB CONN	
26.DDR2 DIMM0	51. N/A	
27.DDR2 DIMM1	52.HD_DVD	
28.DDR DAMPING	53.KBC	
29.N/A	54.K/B & TP/B CONN	
30.CRT CONN	55.HDMI CONN	
31.N/A	56.AZALIA CODEC	
32.LCM CONN	57.AUDIO AMP & MIC & HP	

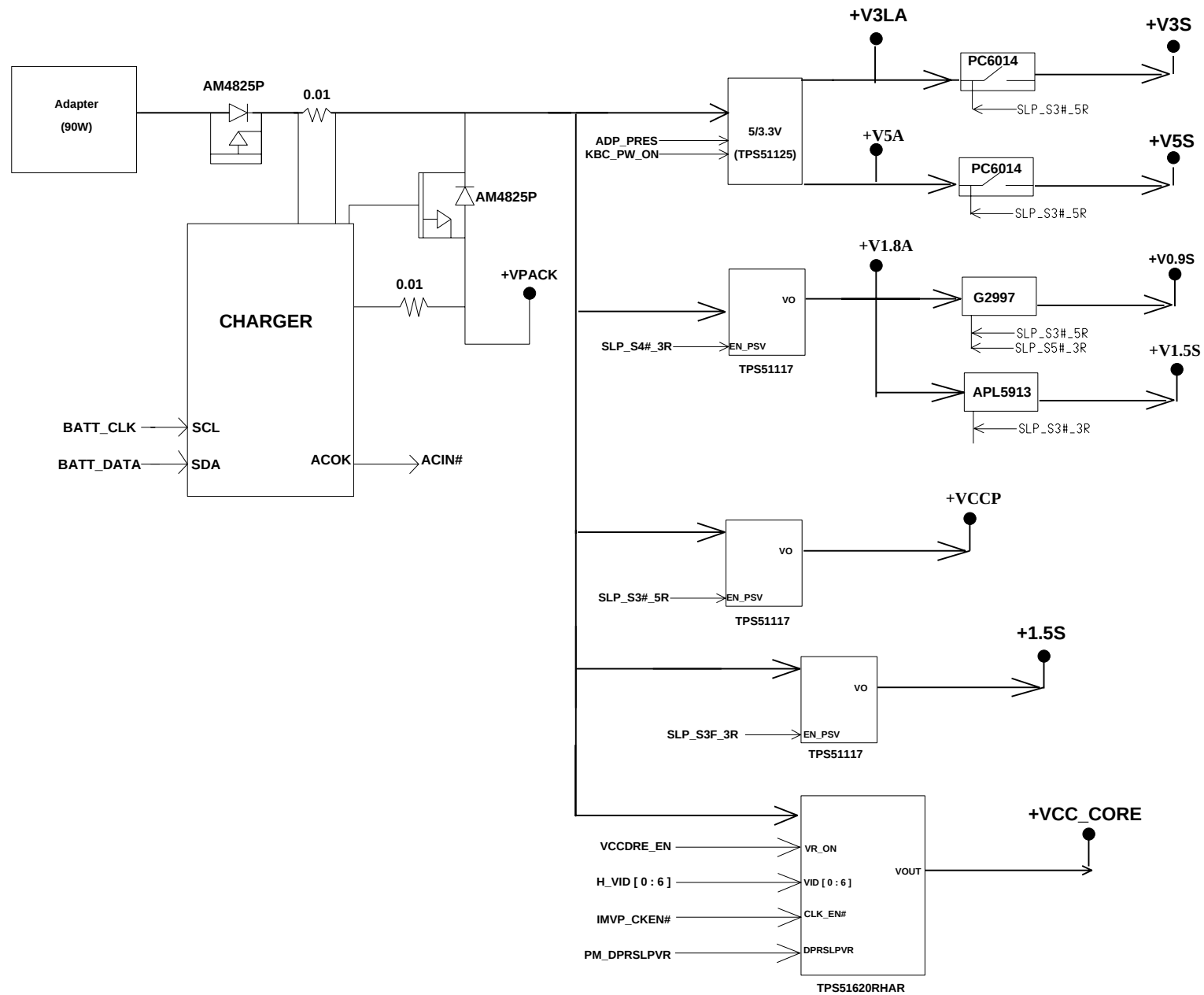
INVENTEC

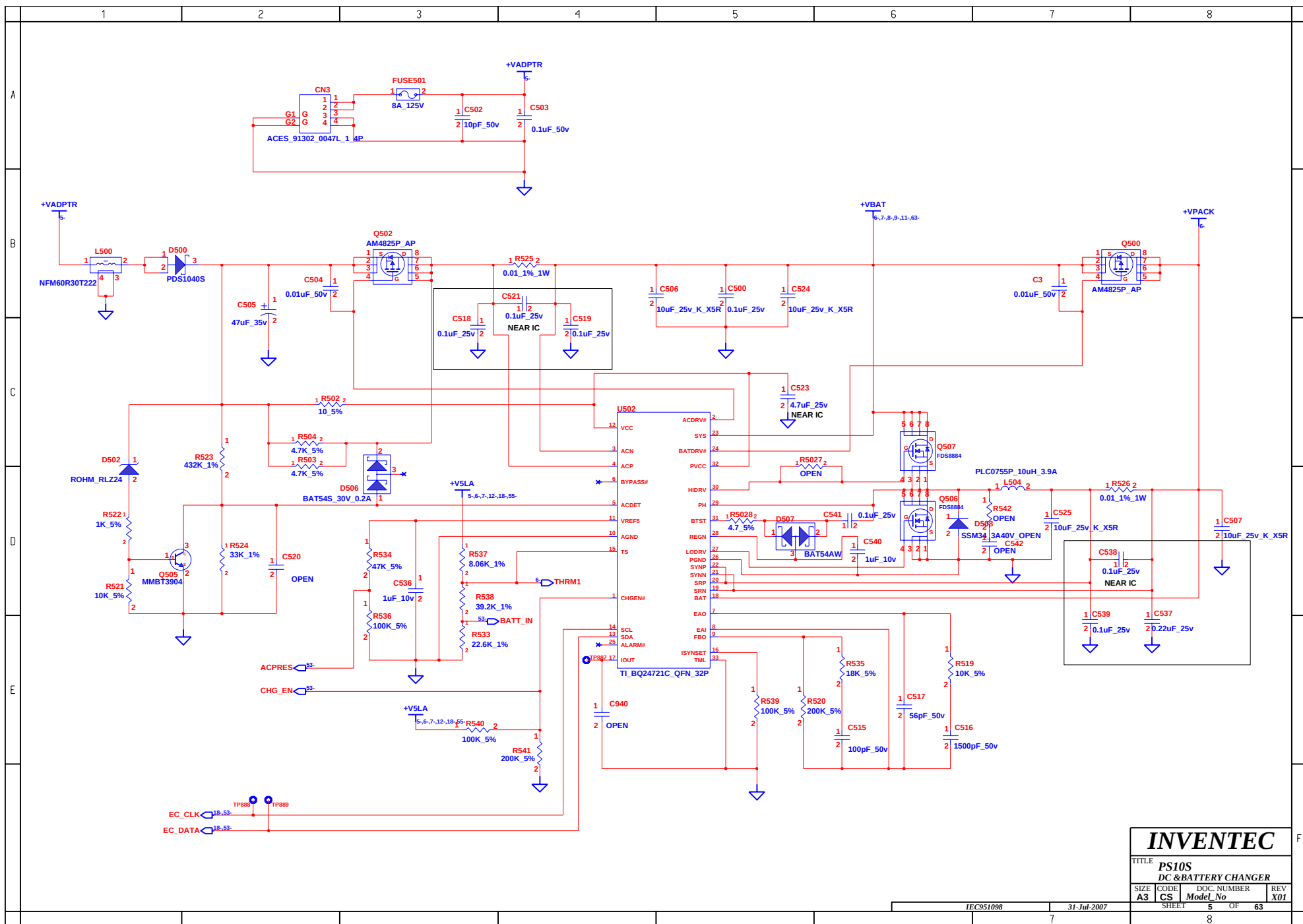
TITLE
PS10S

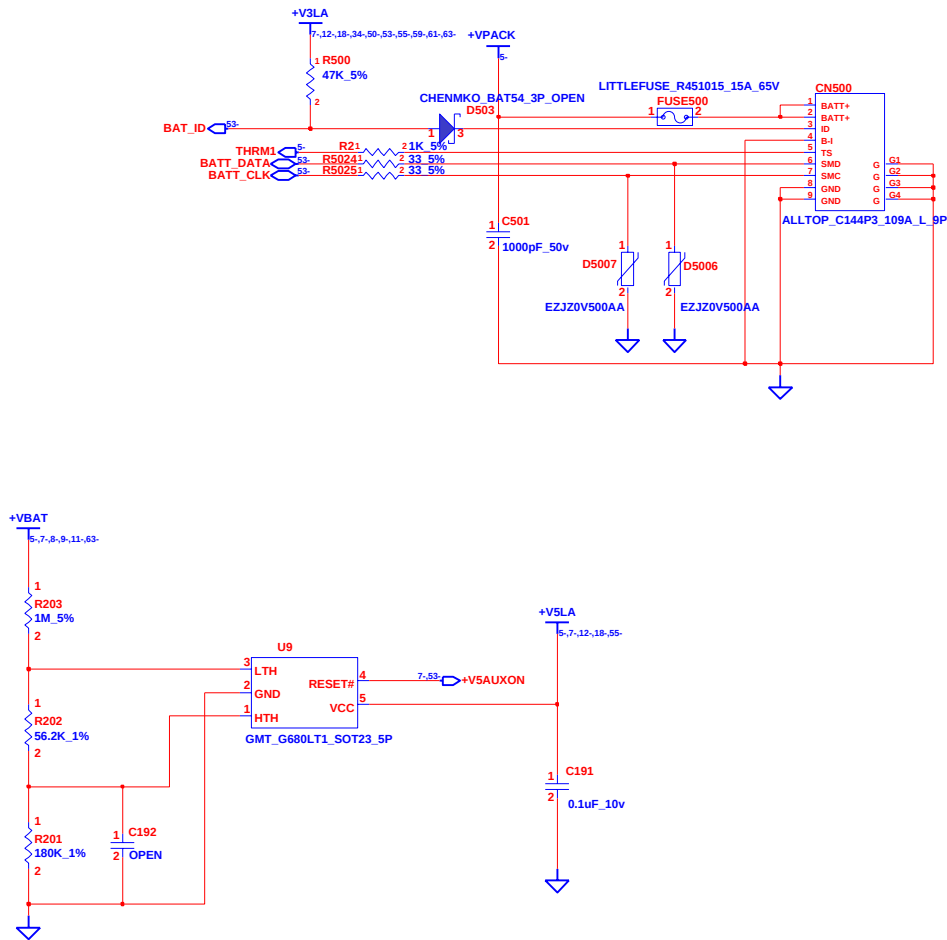
SIZE A3	CODE CS	DOC. NUMBER <i>Model_No</i>	REV X01
-------------------	-------------------	--------------------------------	-------------------

CHANGE by IEC951098	28-Aug-2007
-------------------------------	--------------------

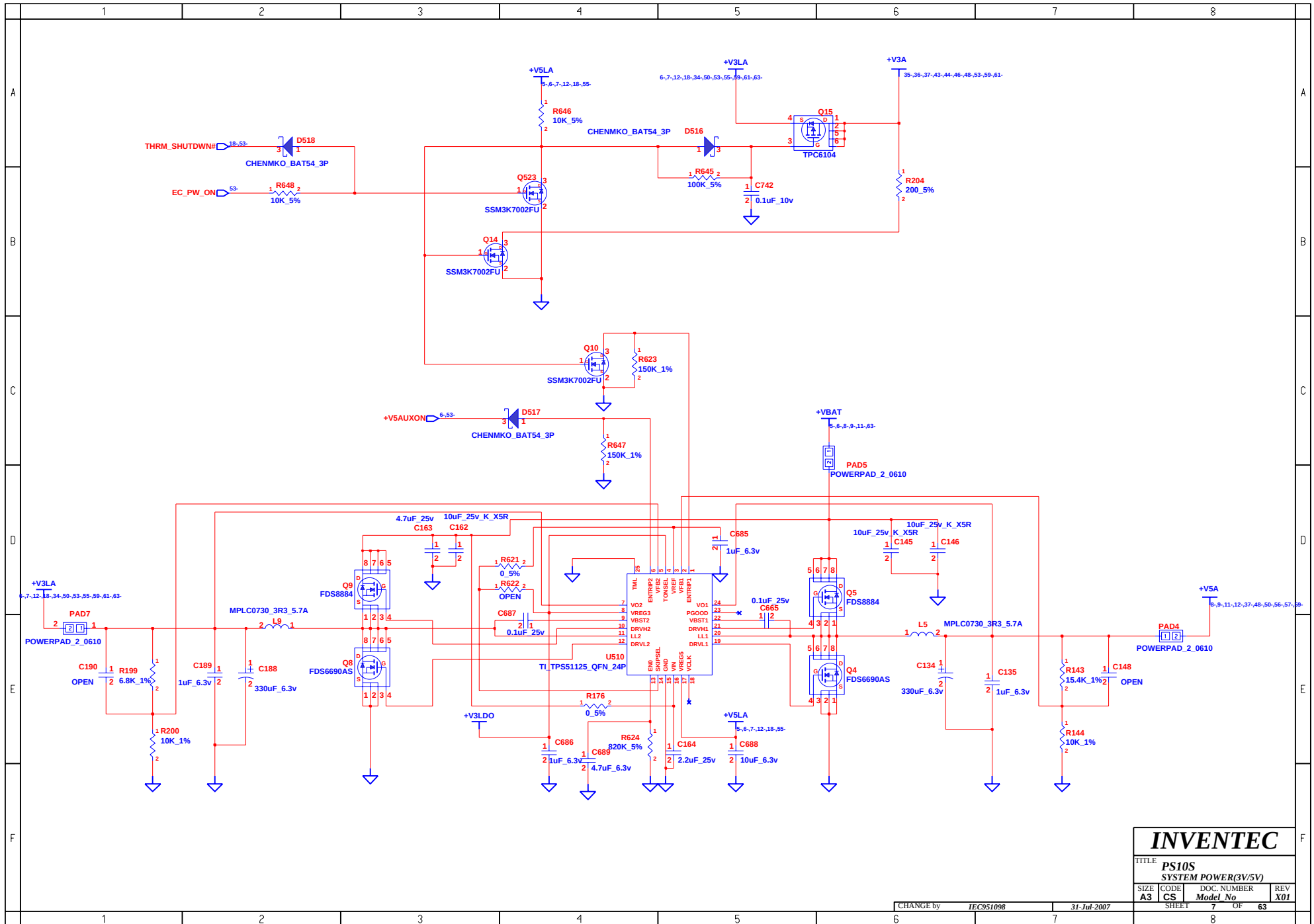
SHEET 2	OF 63
-------------------	-----------------

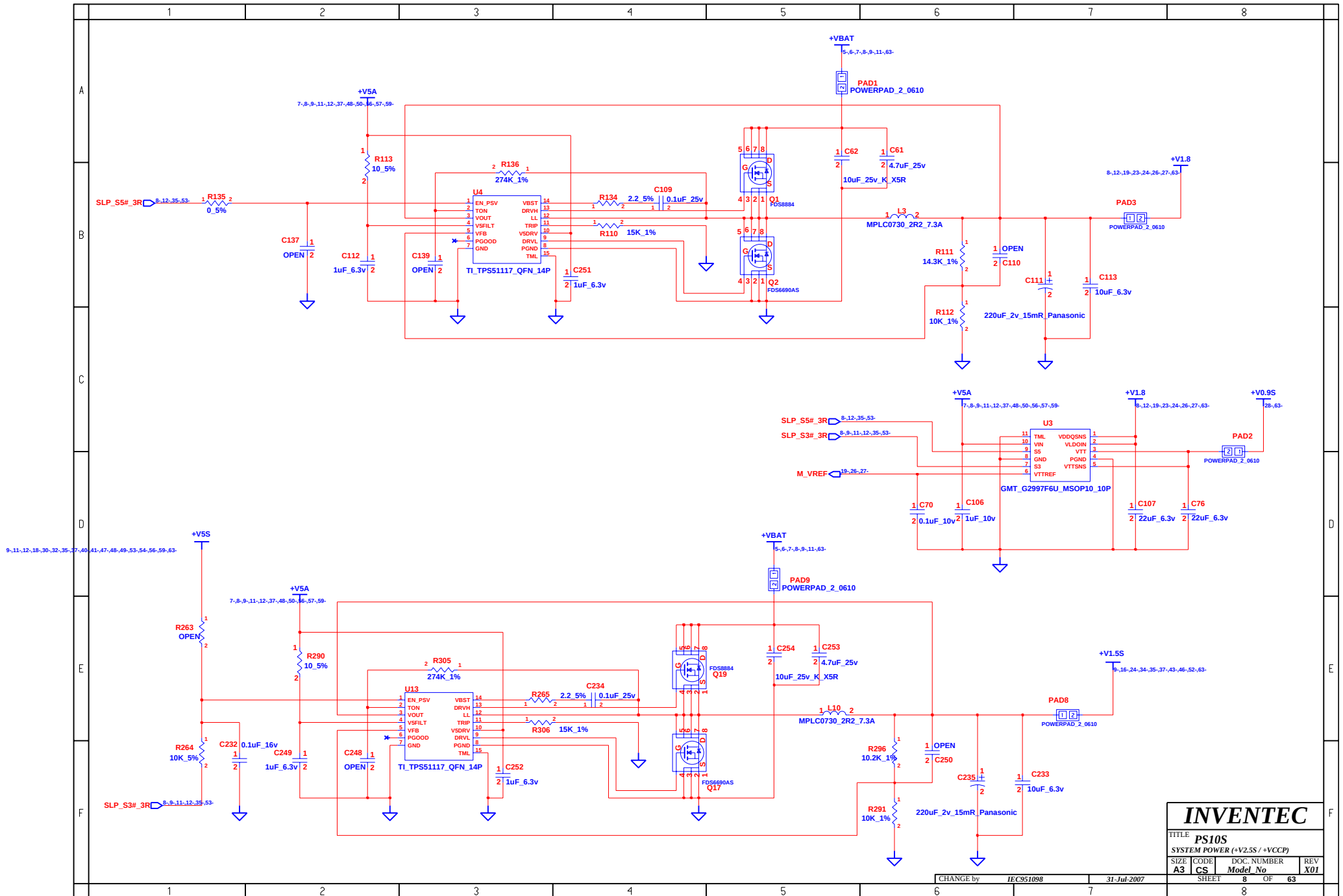






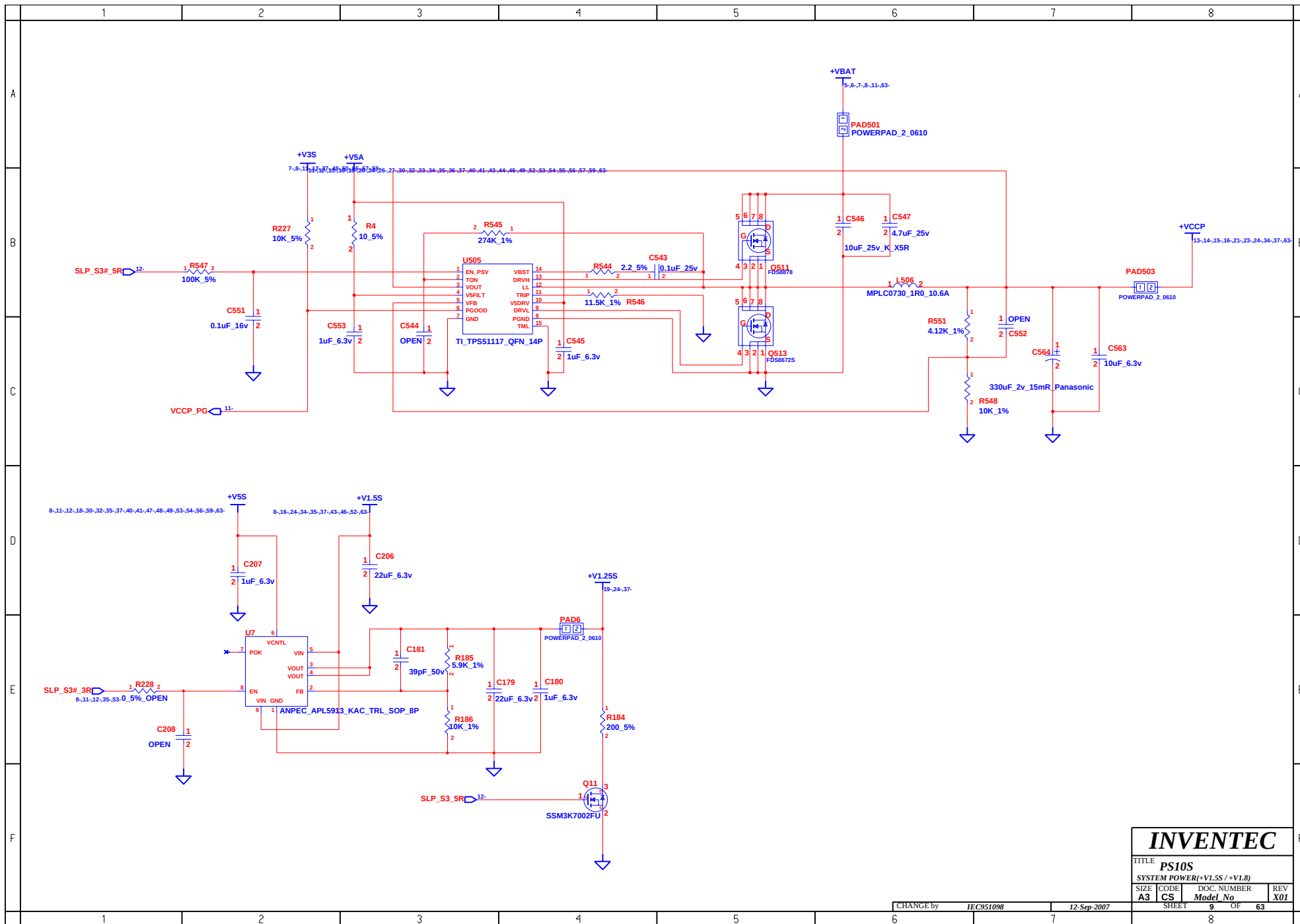
INVENTEC			
TITLE			
PS10S BATTERY CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
CHANGE by		SHEET	
IEC951098		6 OF 63	
31-Jul-2007		8	





INVENTEC			
TITLE PS10S			
SYSTEM POWER (+V2.5S / +VCCP)			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01
SHEET 8		OF 63	

CHANGE by IEC951098 31-Jul-2007



INVENTEC

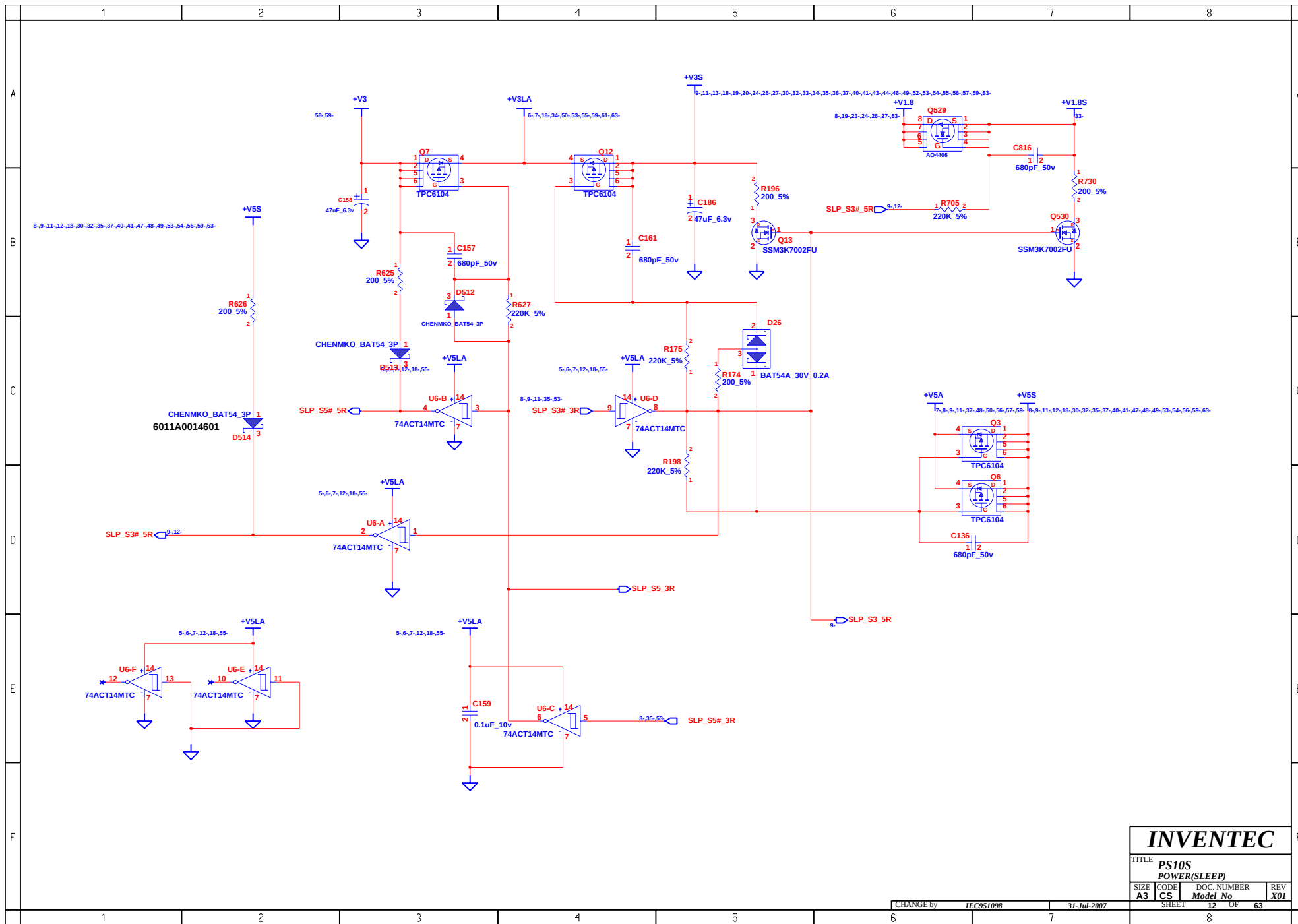
TITLE			
PS10S			
SYSTEM POWER(+V1.5S / +V1.8)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by IEC951098 12-Sep-2007

SHEET 9 OF 63

	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 PS10S CPU POWER(VCC_CORE)			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01
CHANGE by IEC951098		30-Nov-2007	
SHEET		10	OF 63

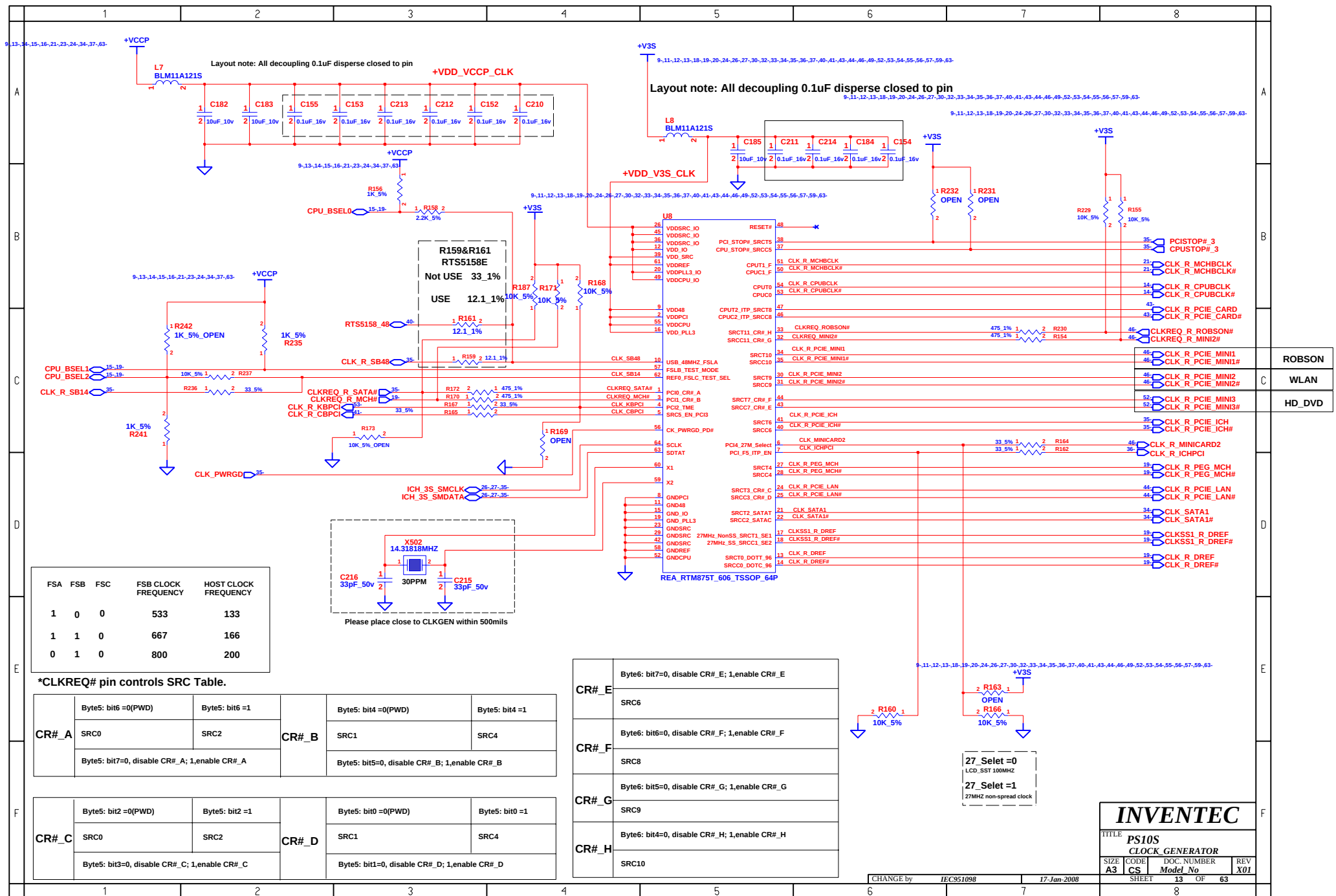


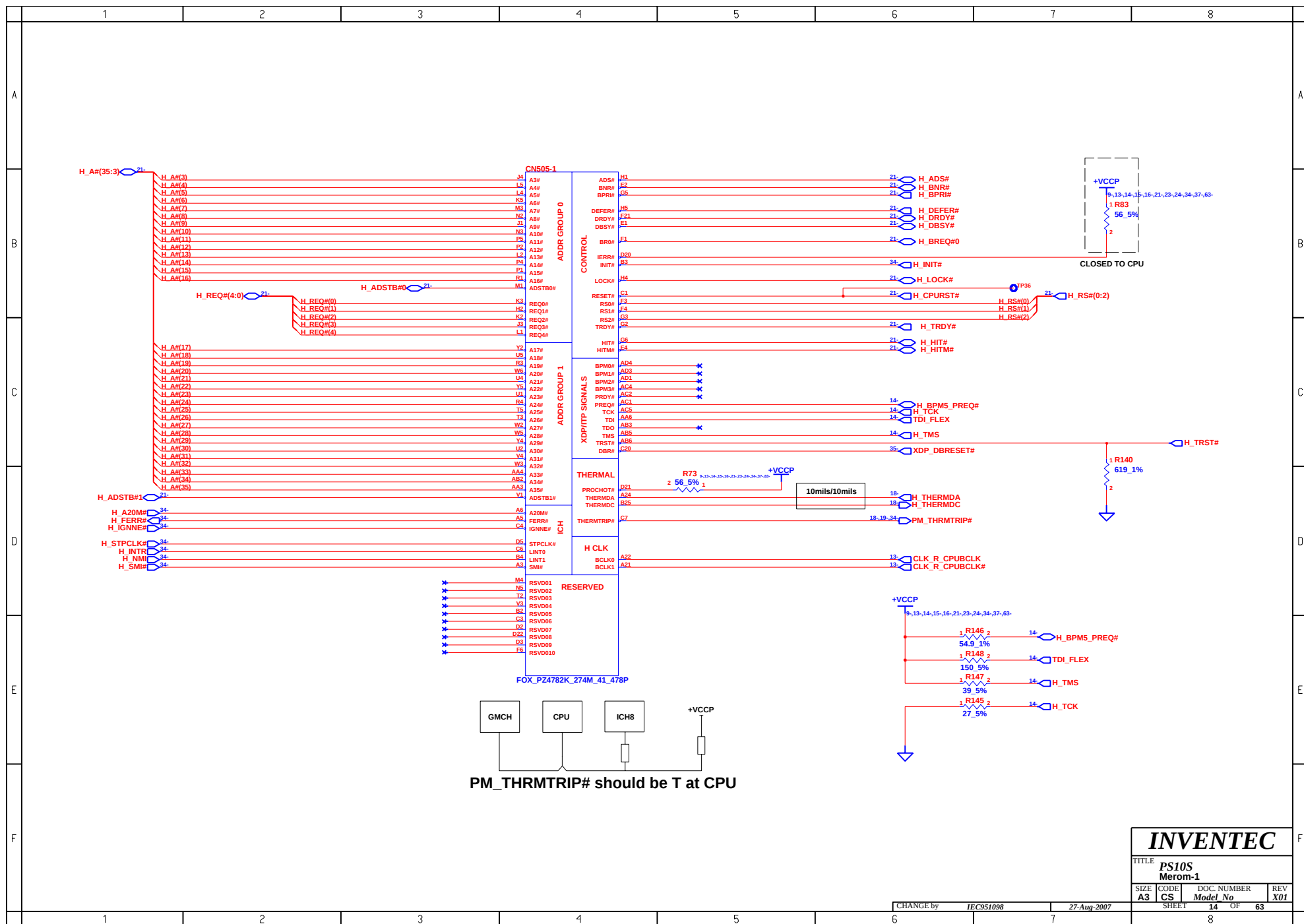
INVENTEC

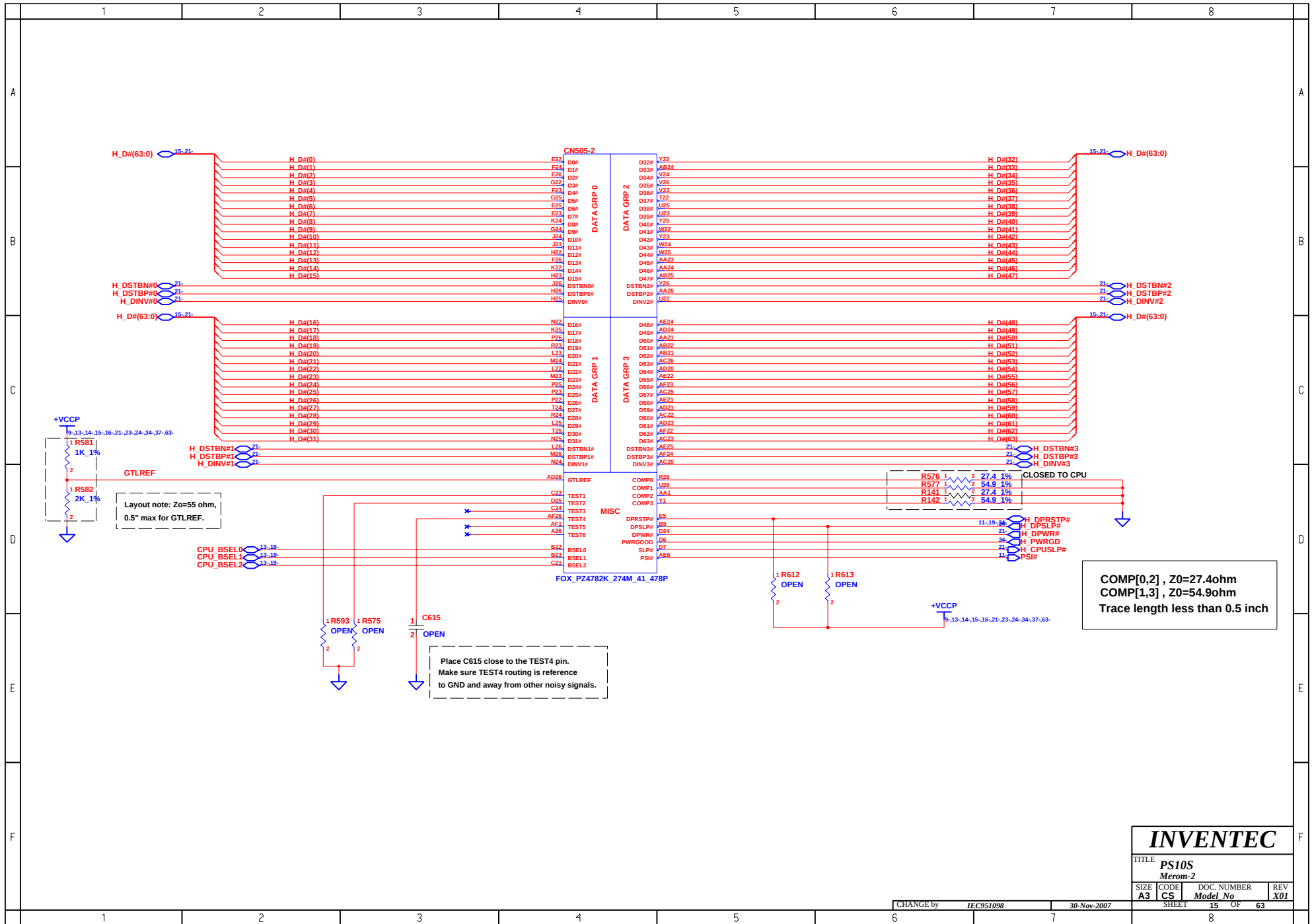
TITLE PS10S POWER(SLEEP)			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01

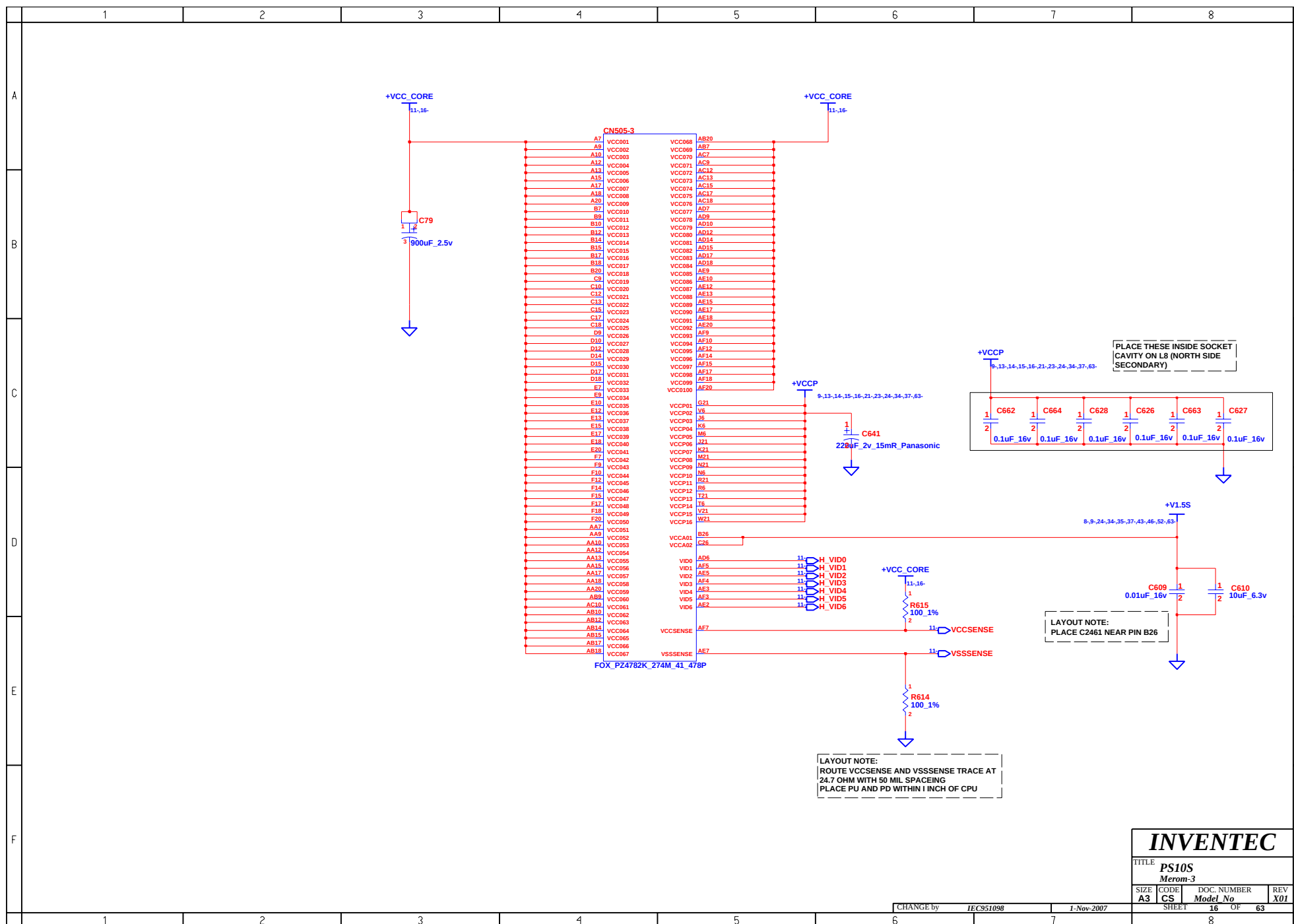
CHANGE by IEC951098 31-Jul-2007

SHEET 12 OF 63









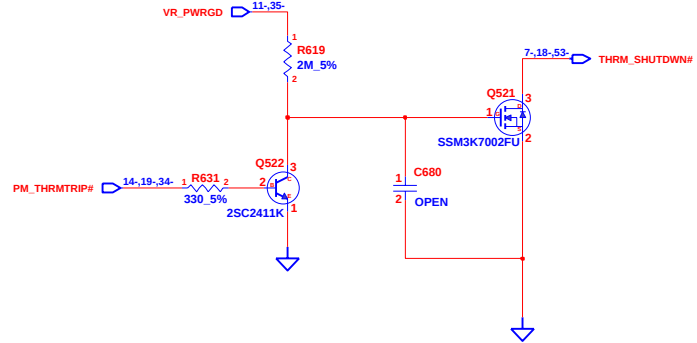
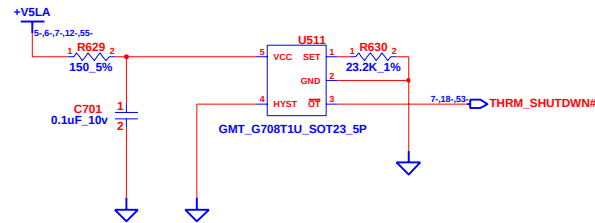
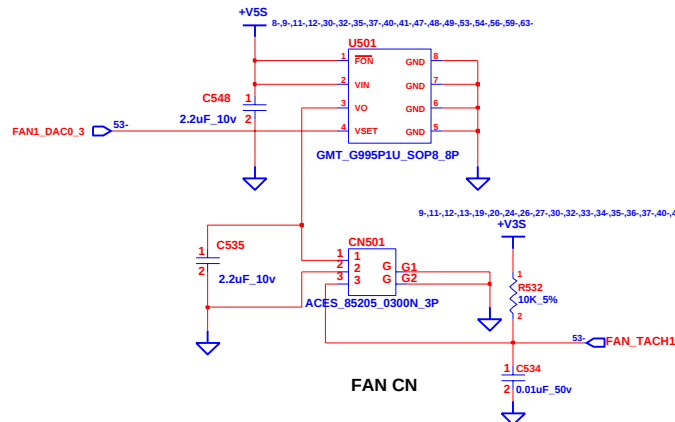
	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F

INVENTEC

TITLE			
PS10S			
Merom-4			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by IEC951098 31-Jul-2007

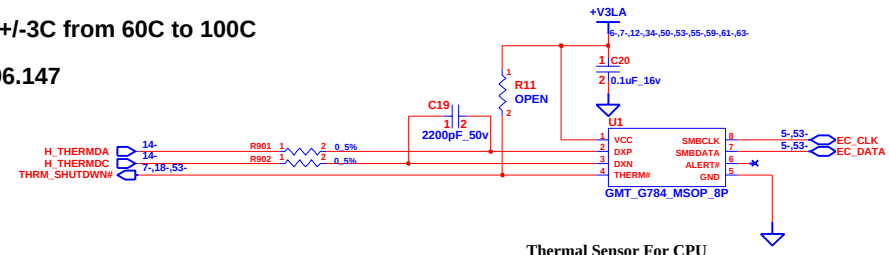
SHEET 17 OF 63



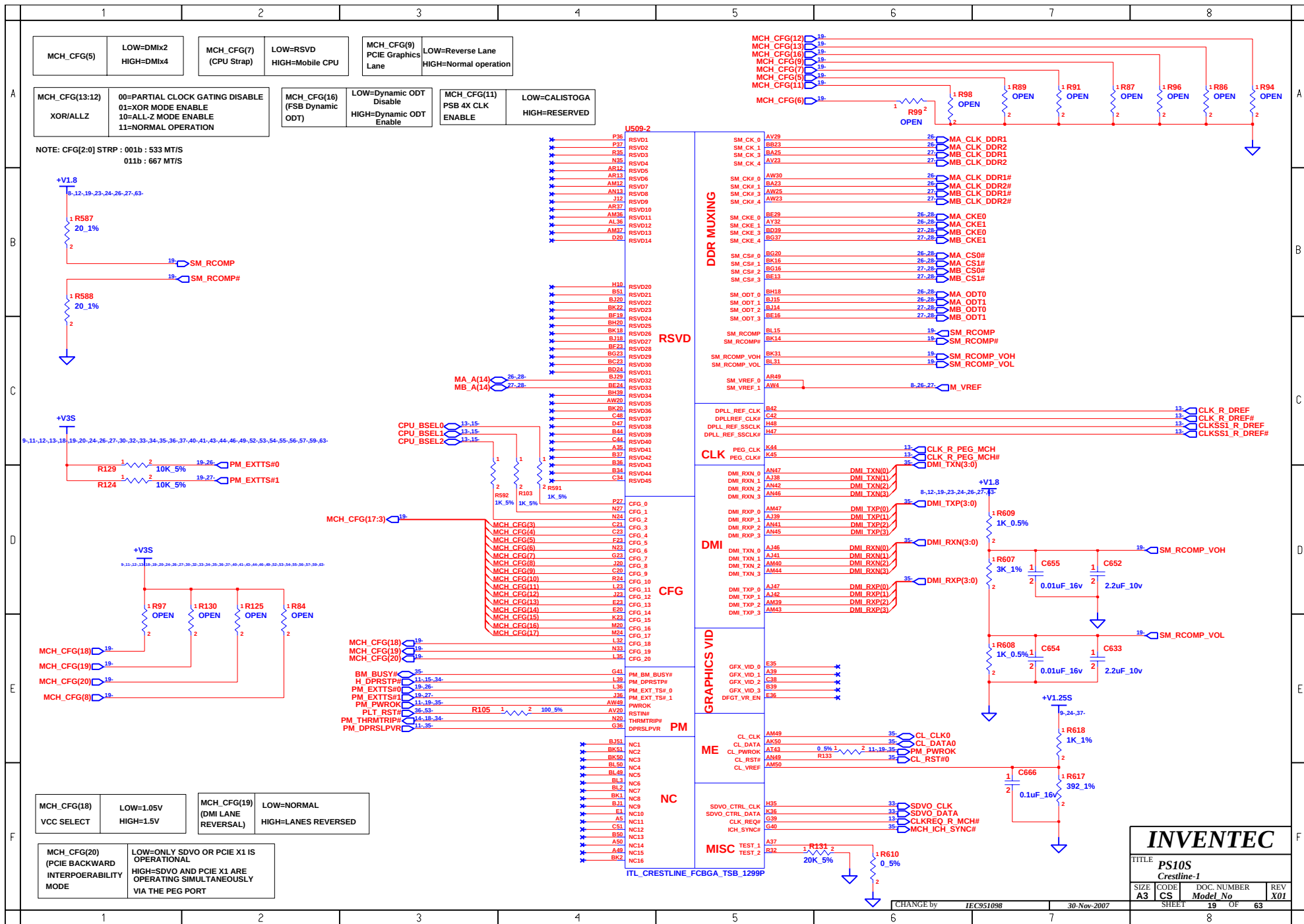
Thermal shutdown at 89C +/-3C from 60C to 100C

$$RSET=0.0012 \cdot T^2 - 0.9308 \cdot T + 96.147$$

Hysteresis is 30C



INVENTEC			
TITLE PS10S THERMAL&FAN CONTROLLER			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01
SHEET 18		OF 63	



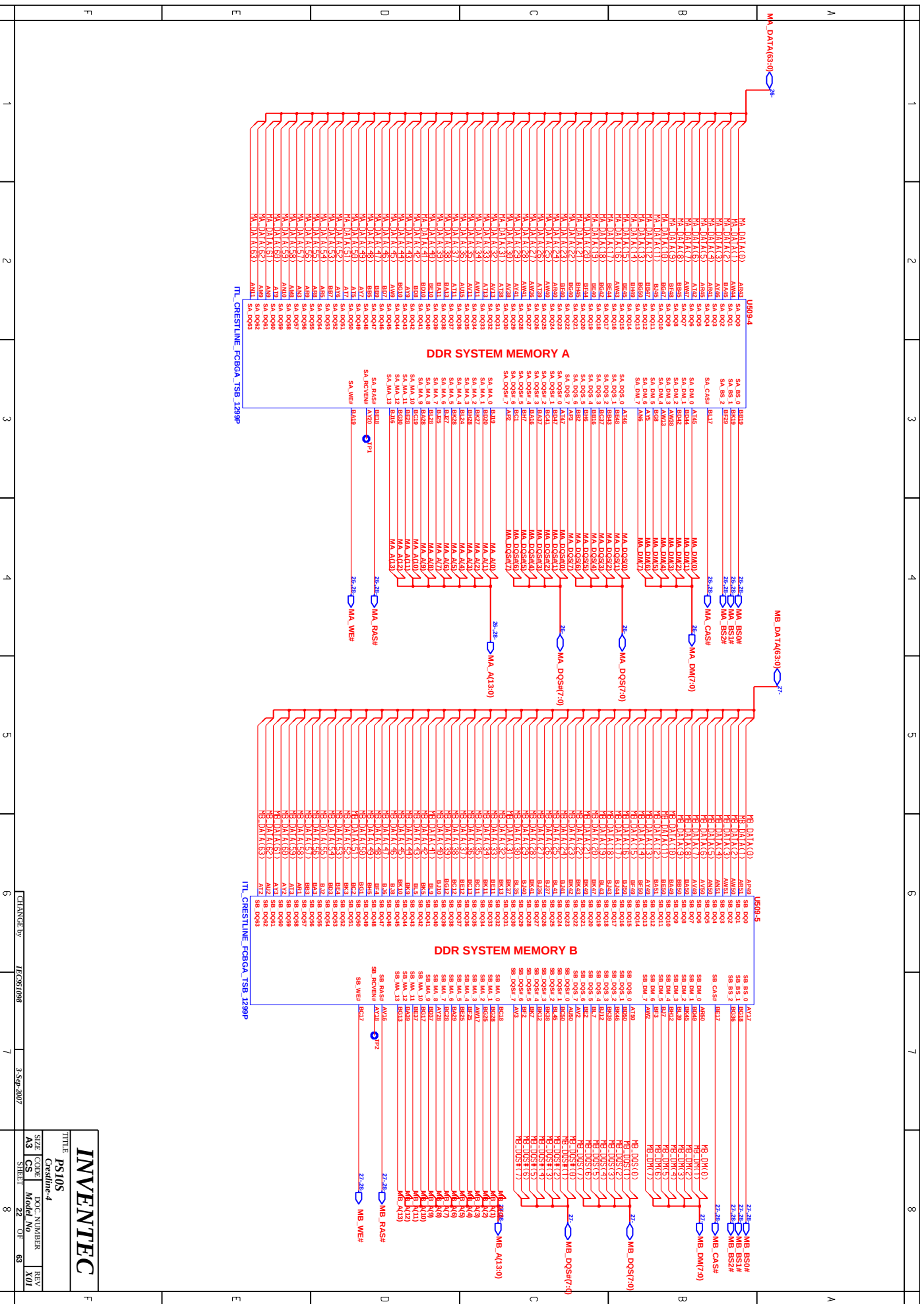
INVENTEC

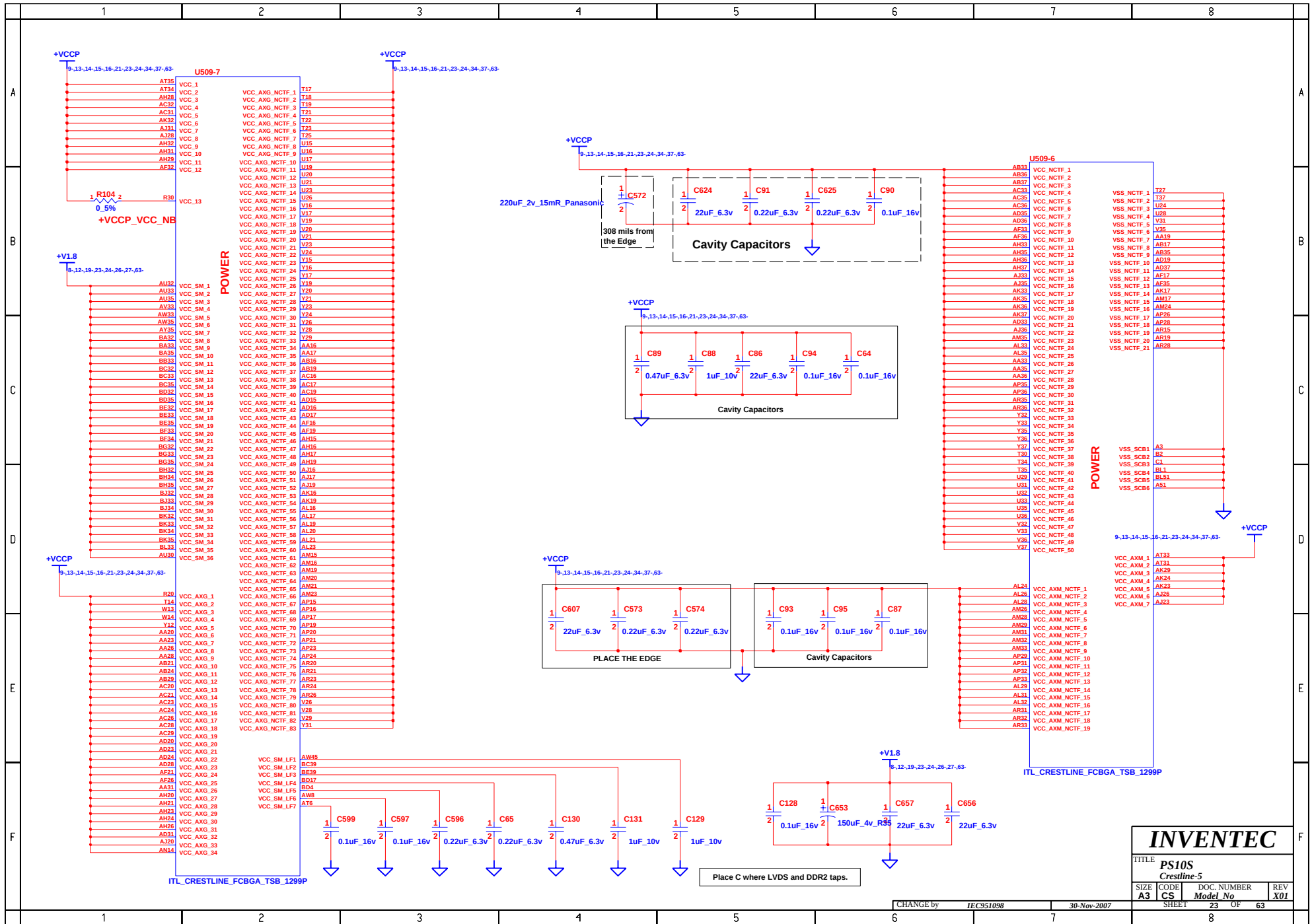
TITLE
PS10S
Crestline-1

SIZE CODE DOC. NUMBER REV
A3 CS Model No X01

SHEET 19 OF 63

CHANGE by IEC951098 30-Nov-2007



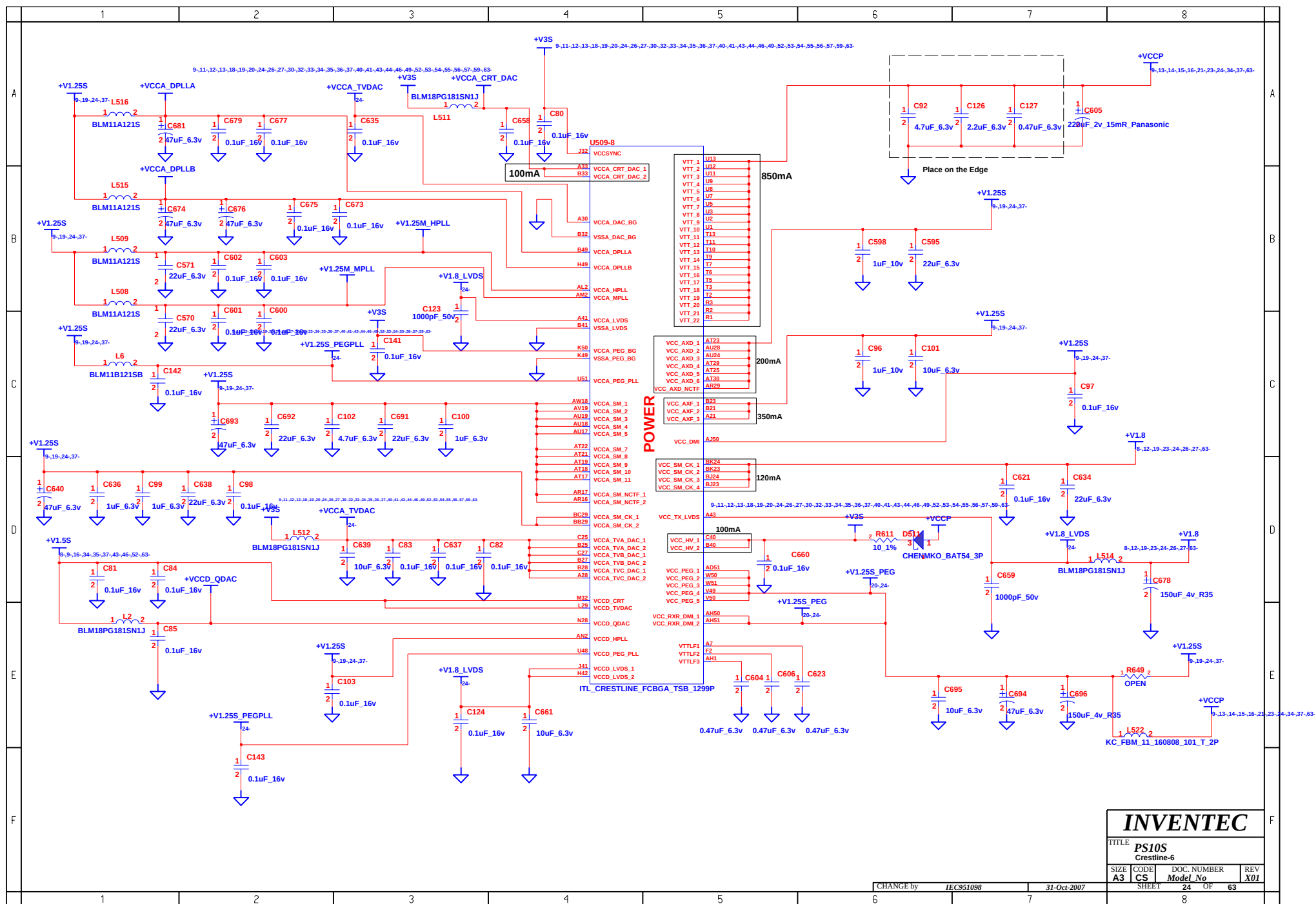


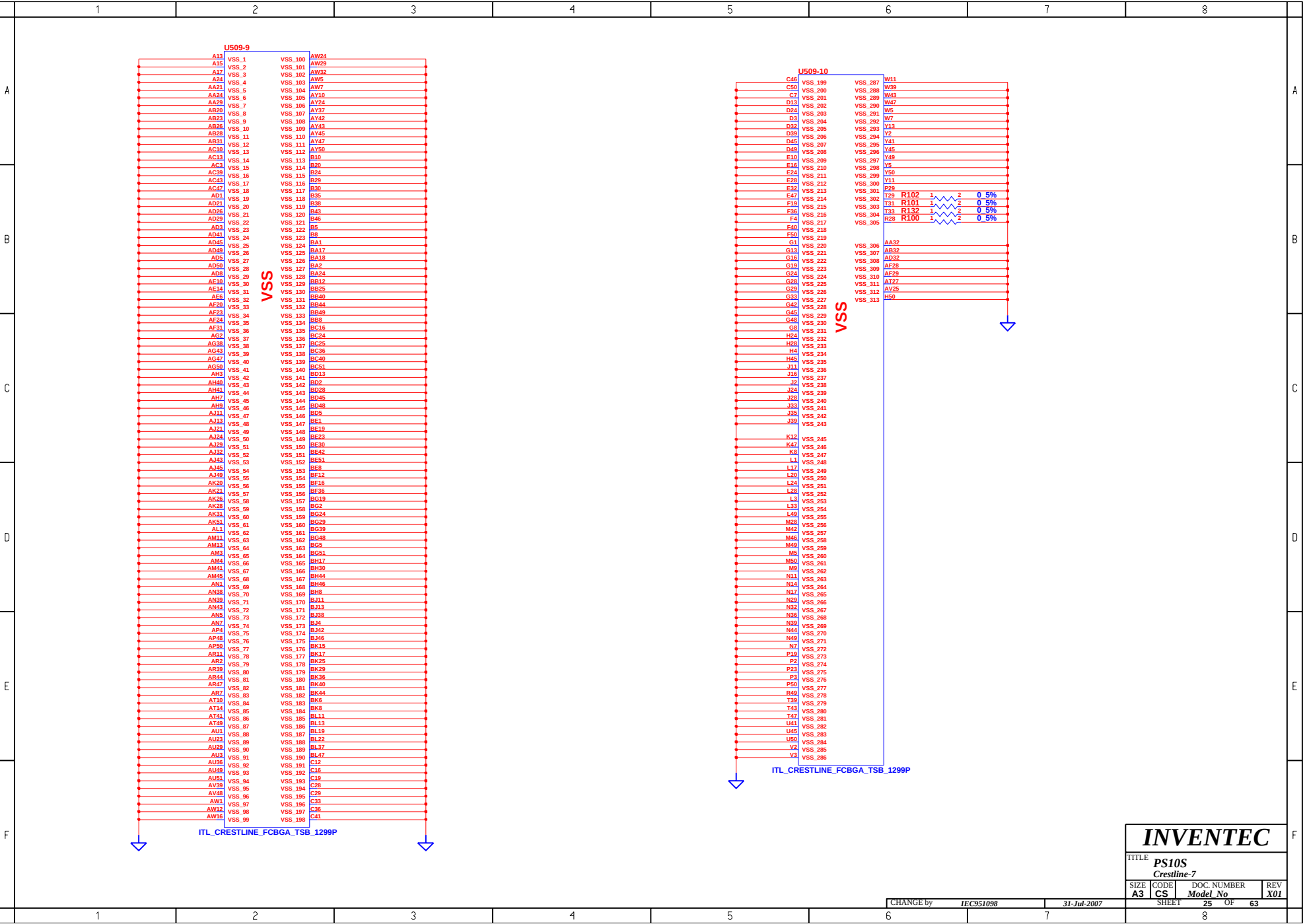
INVENTEC

TITLE			
PS10S Crestline-5			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		23	OF 63

CHANGE by IEC951098

30-Nov-2007



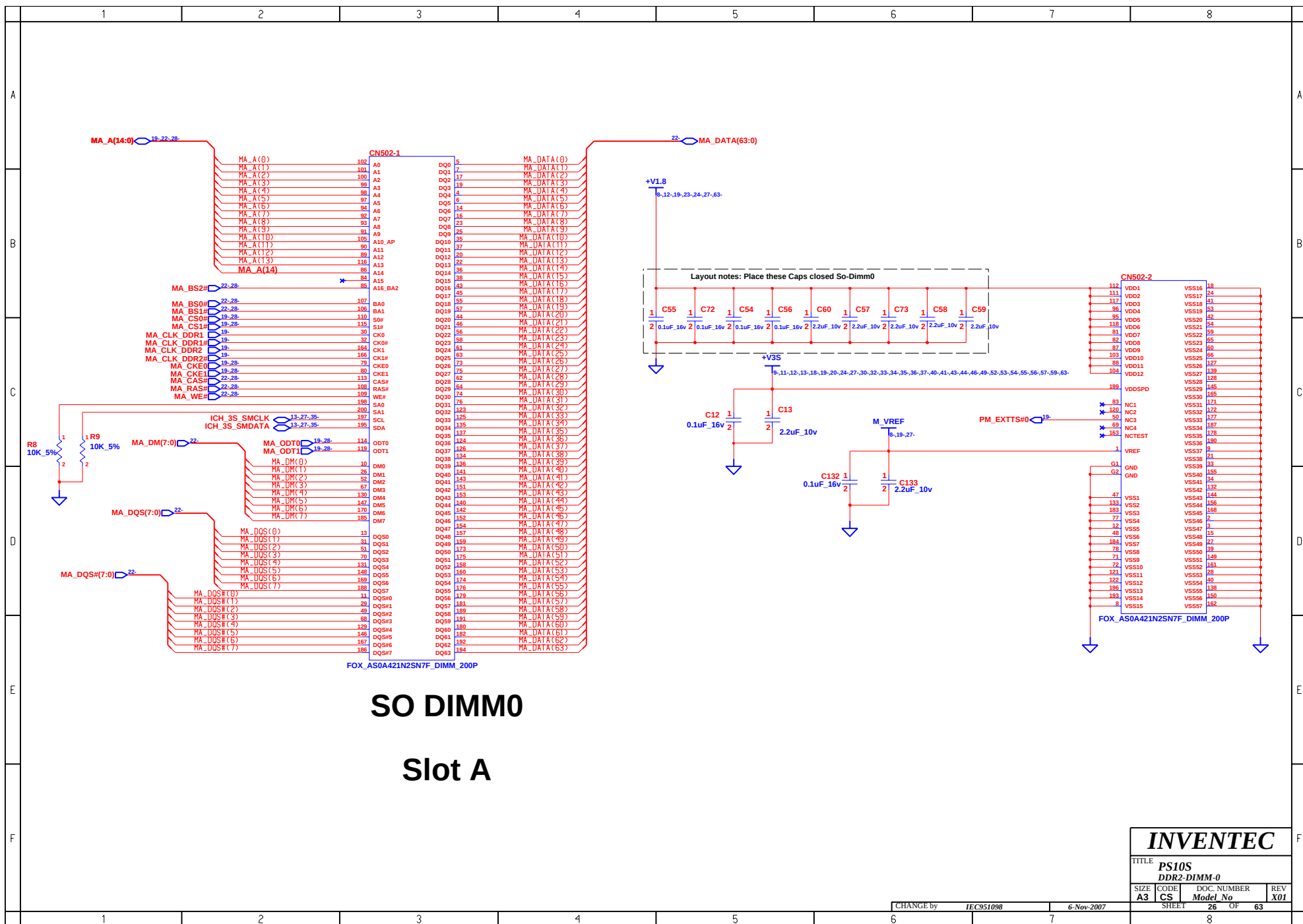


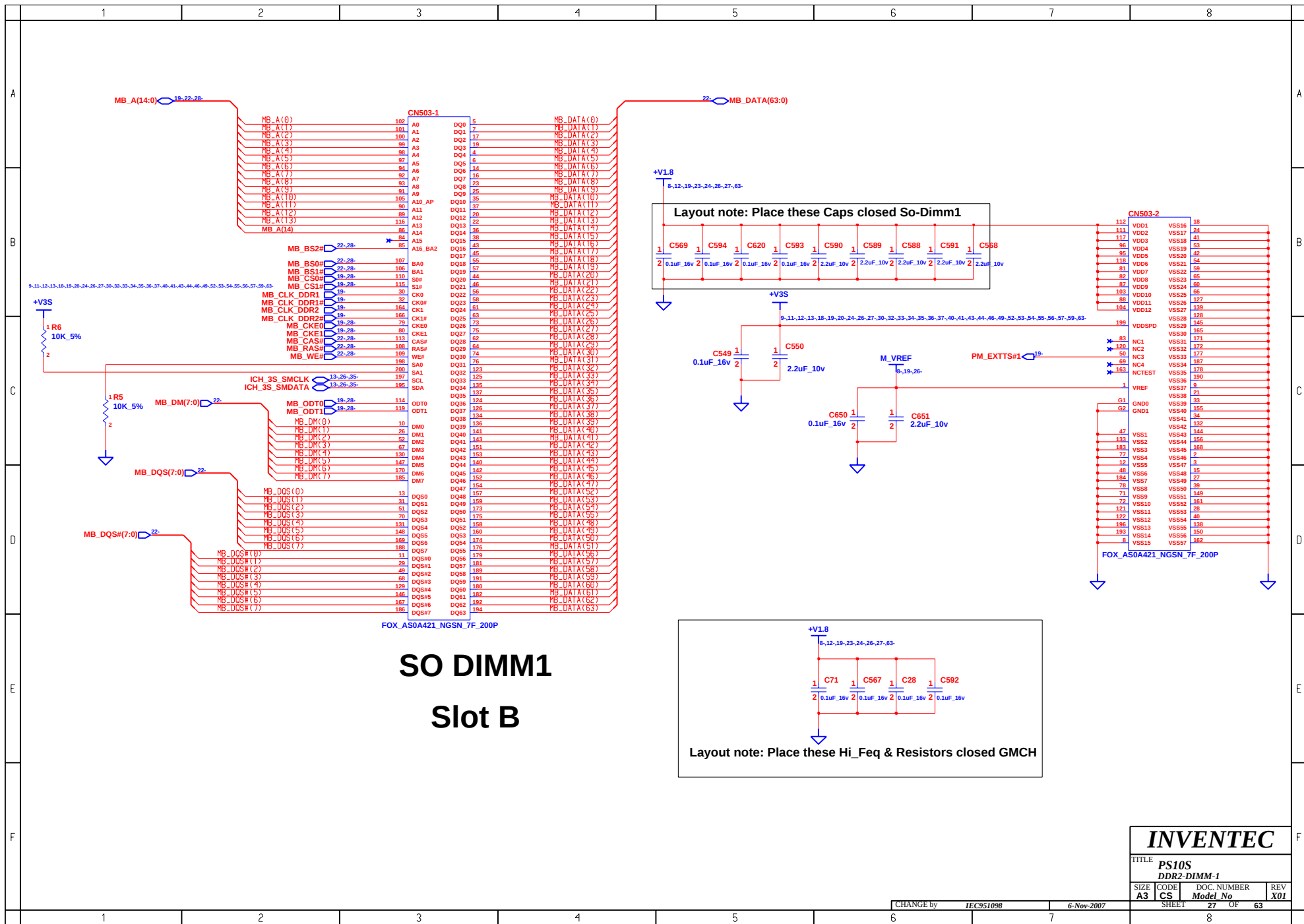
INVENTEC

TITLE			
PS10S			
Crestline-7			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by IEC951098 31-Jul-2007

SHEET 25 OF 63





INVENTEC

TITLE			
PS10S			
DDR2-DIMM-1			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by IEC951098

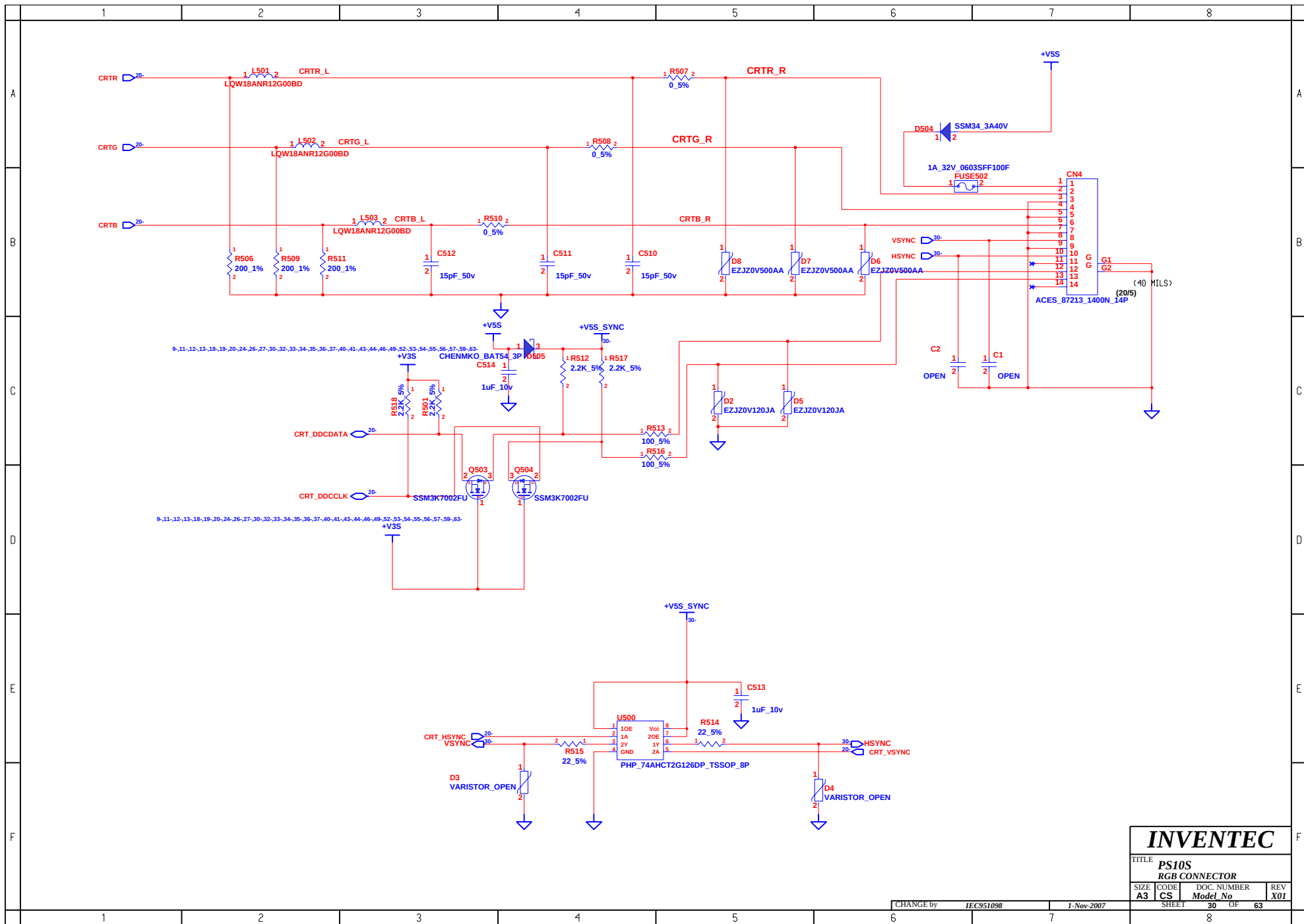
6-Nov-2007

SHEET 27 OF 63

	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 PS10S MXM CONN			
SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV X01
SHEET 29 OF 63			

CHANGE by	IEC951098	30-Nov-2007
-----------	-----------	-------------



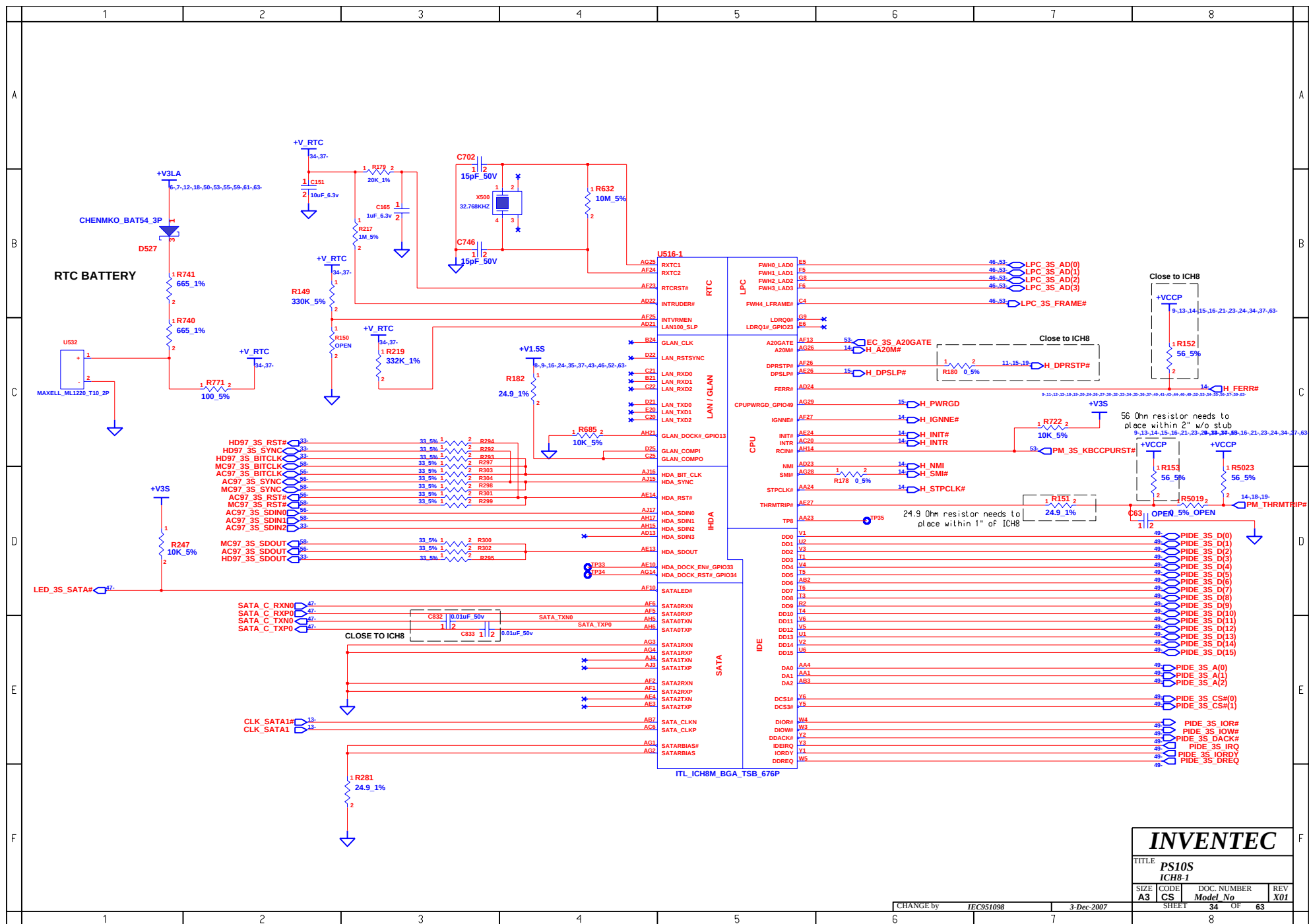
	1	2	3	4	5	6	7	8	
A	BLANK								A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

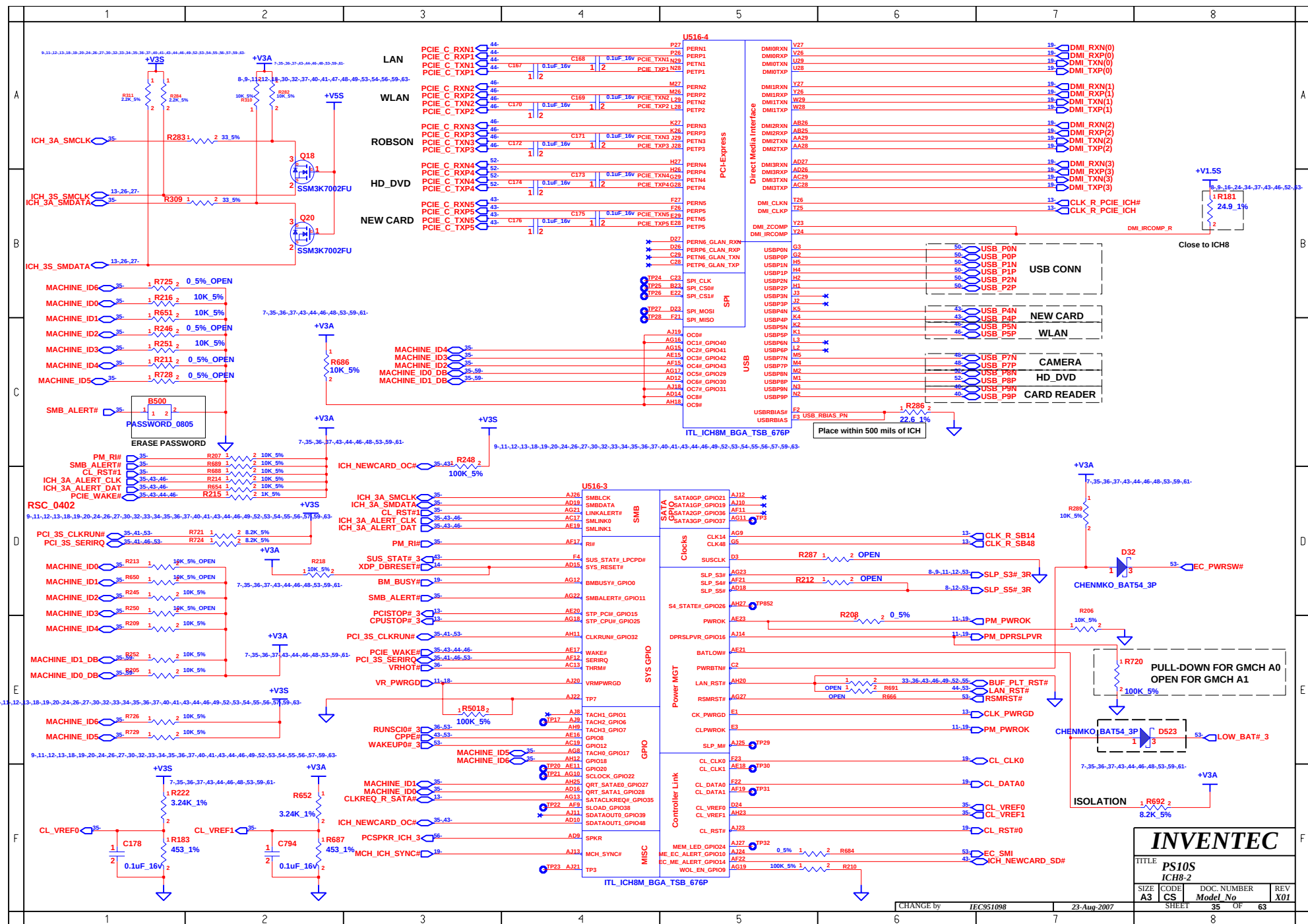
INVENTEC

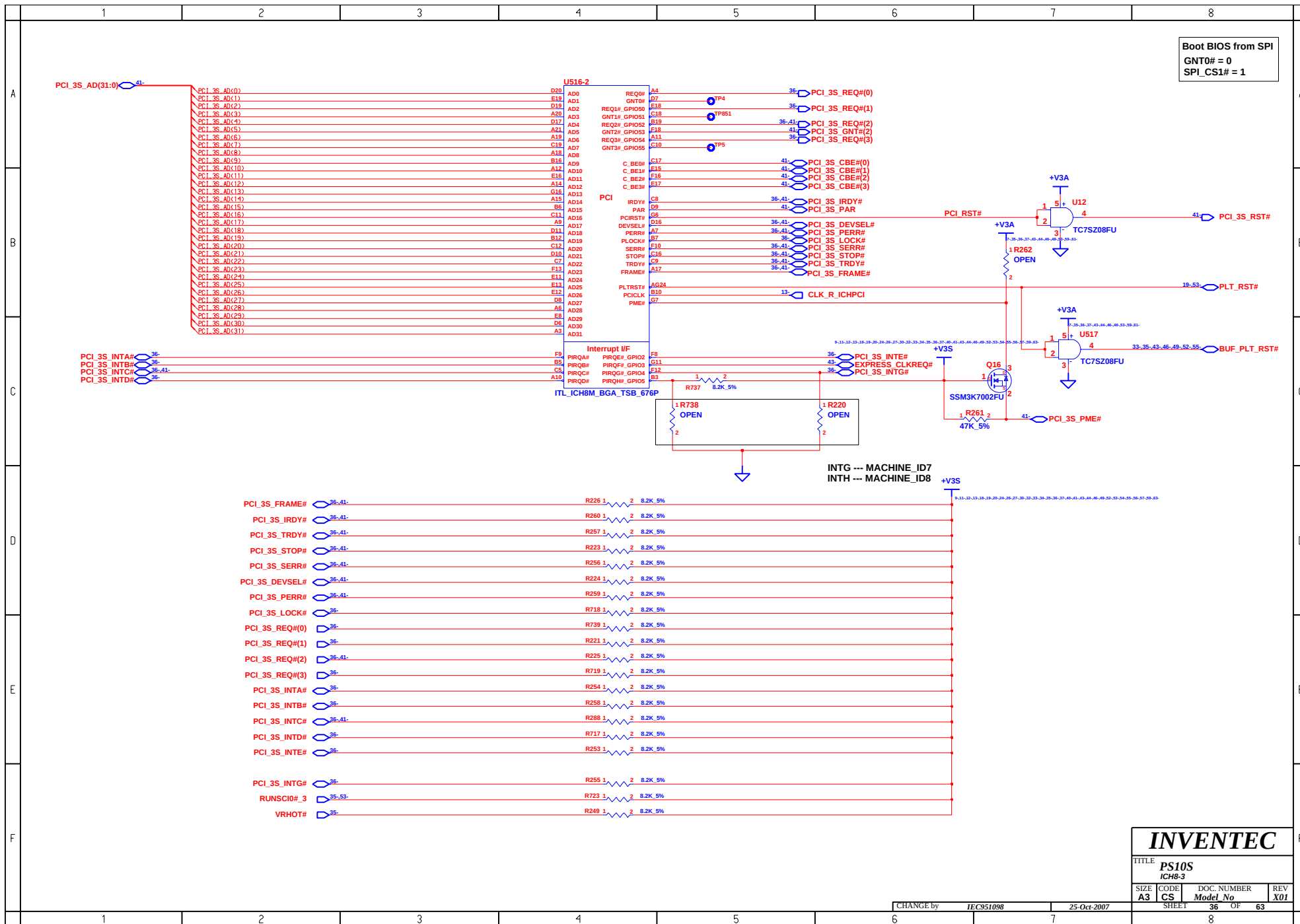
TITLE			
PS10S			
S-Video CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

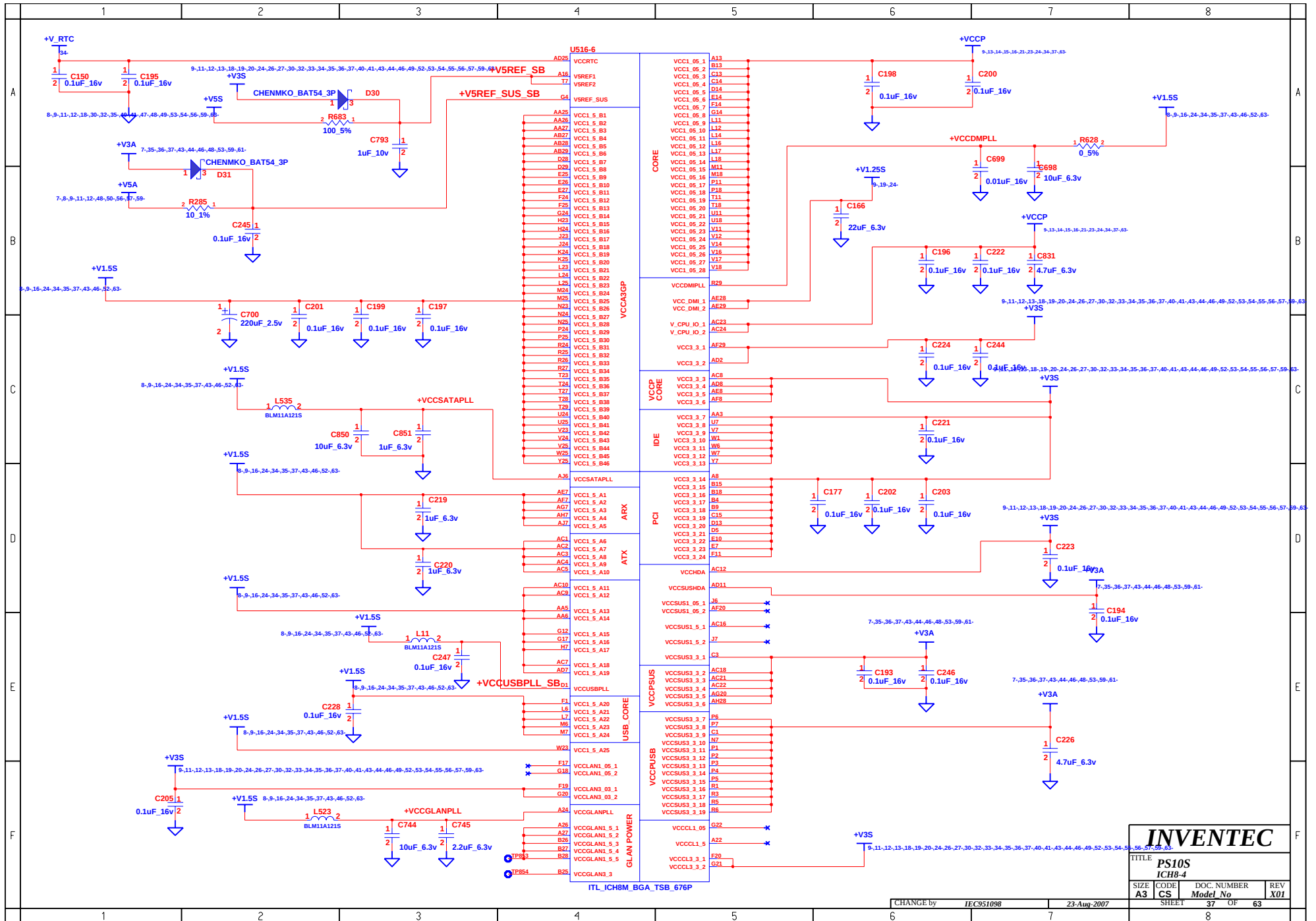
CHANGE by IEC951098 30-Nov-2007

SHEET 31 OF 63









[illegible]

	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	

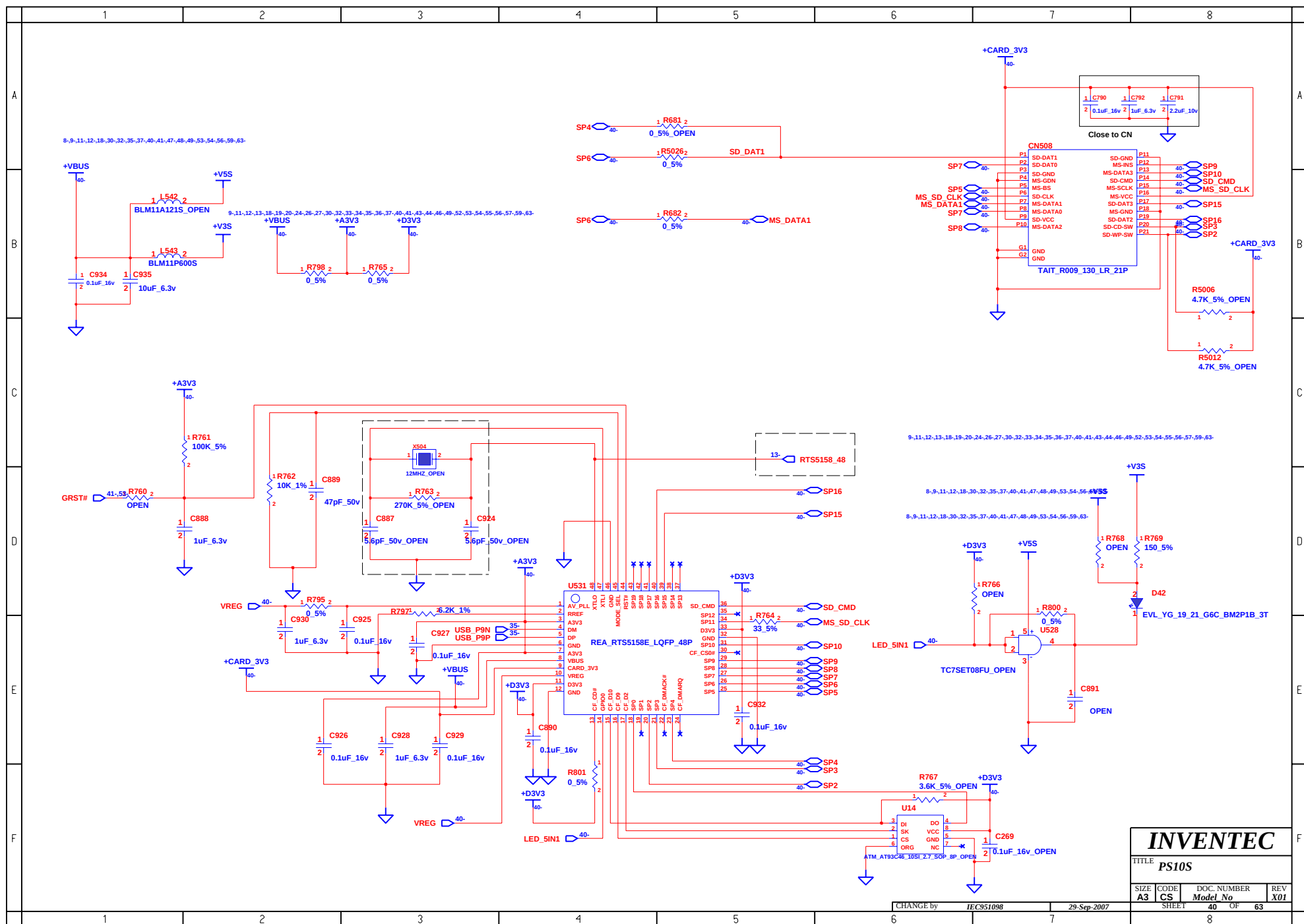
INVENTEC

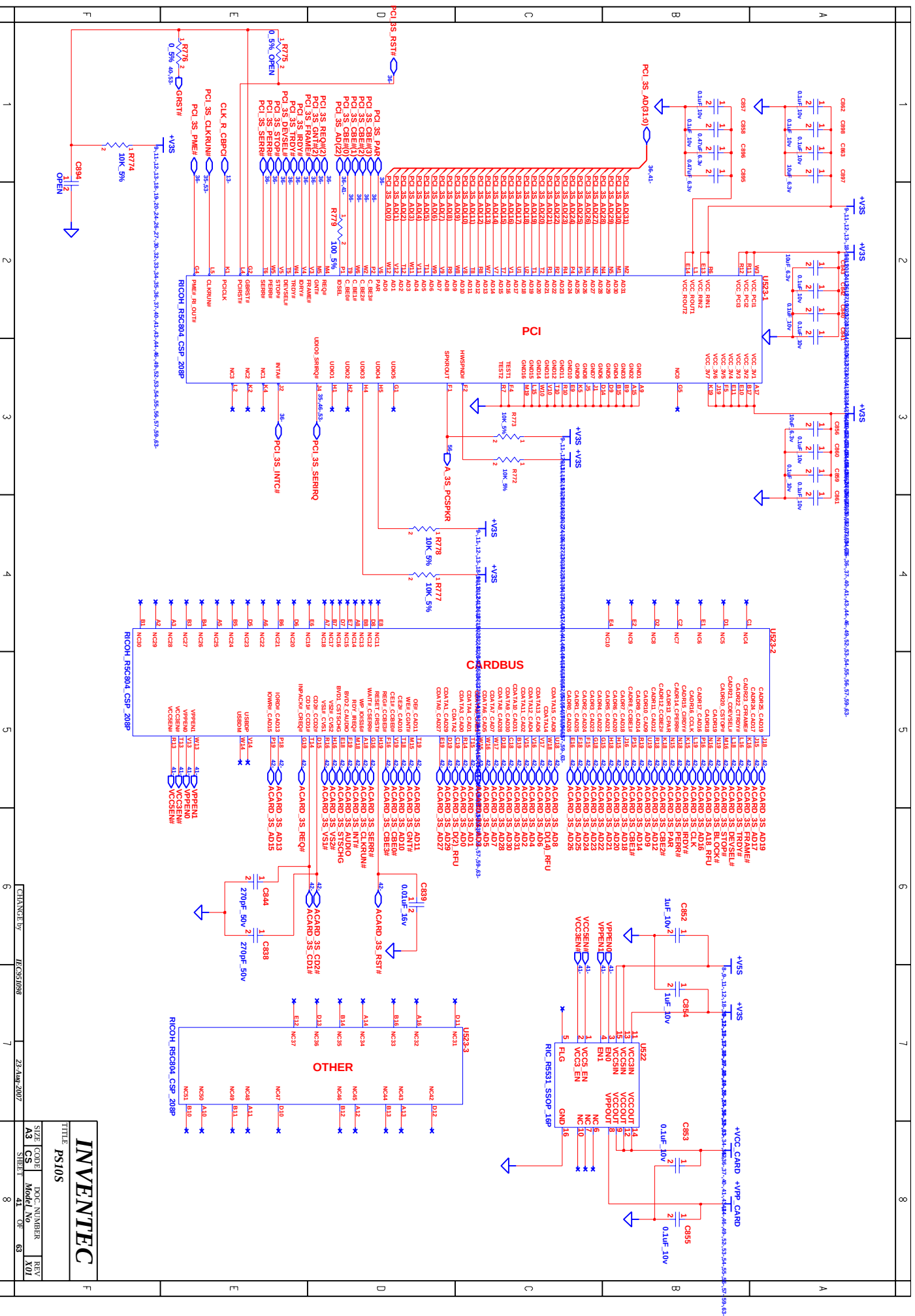
TITLE
PS10S

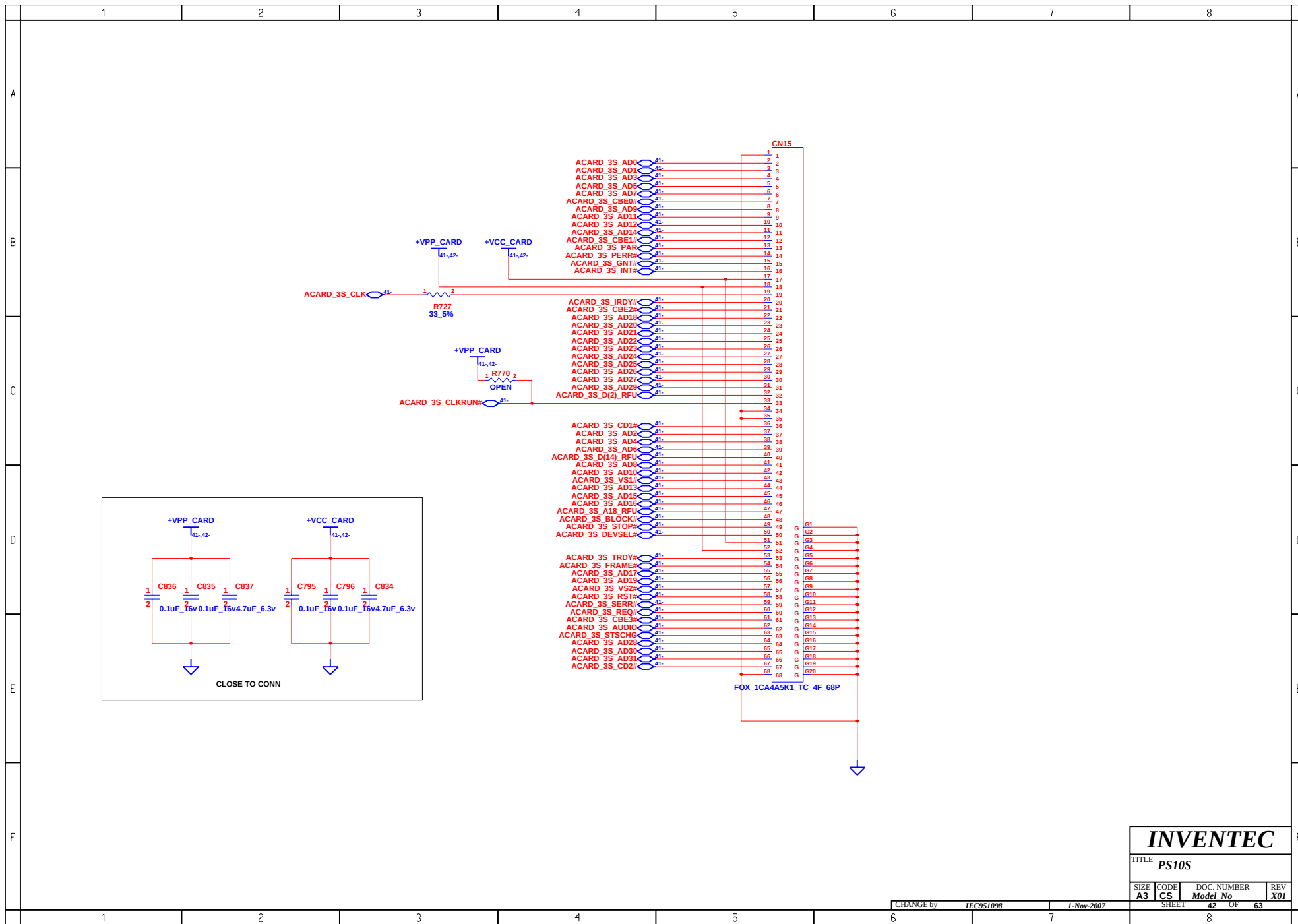
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01
------------	------------	-------------------------	------------

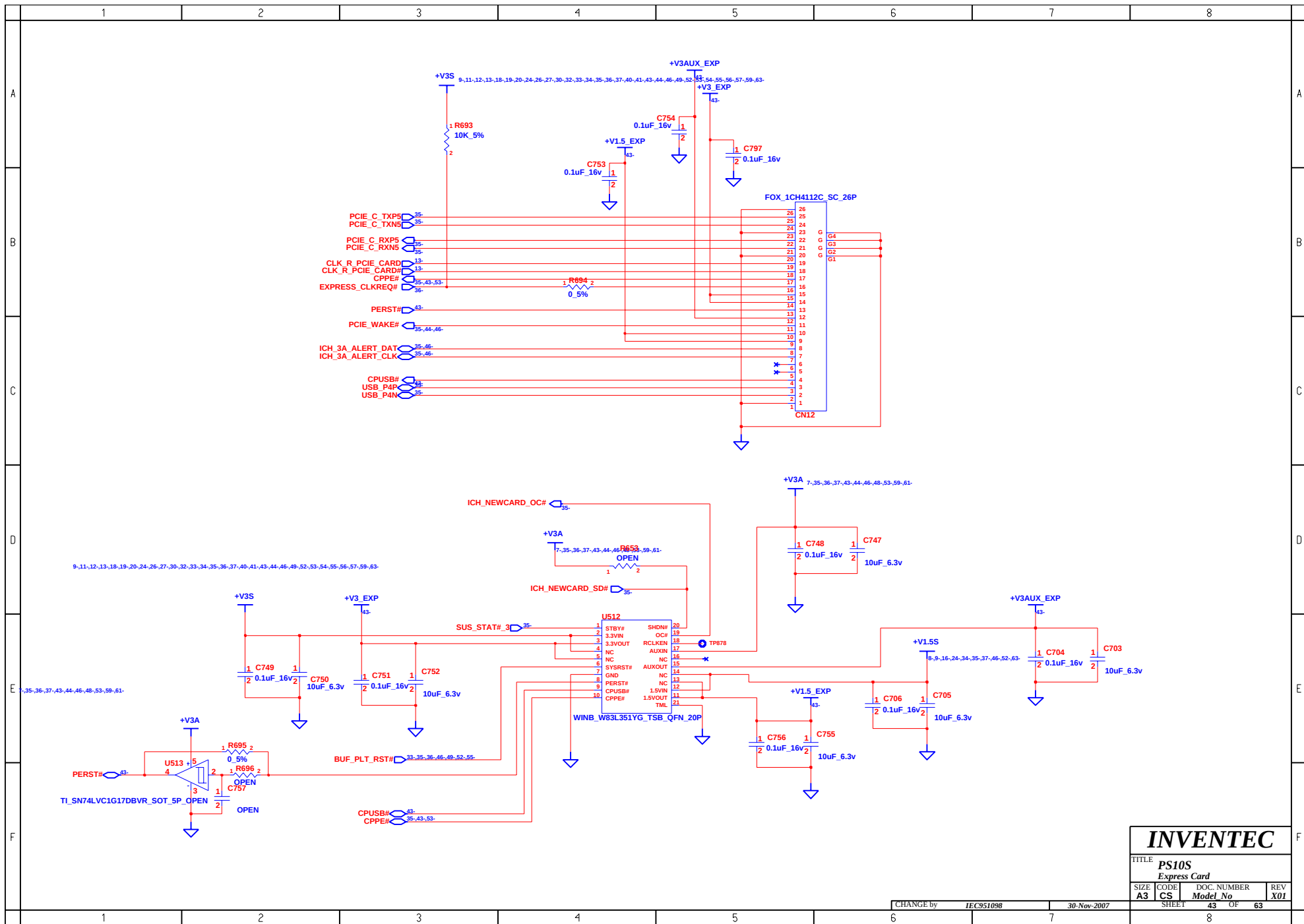
CHANGE by	IEC951098	30-Nov-2007
-----------	-----------	-------------

SHEET	39	OF	63
-------	----	----	----









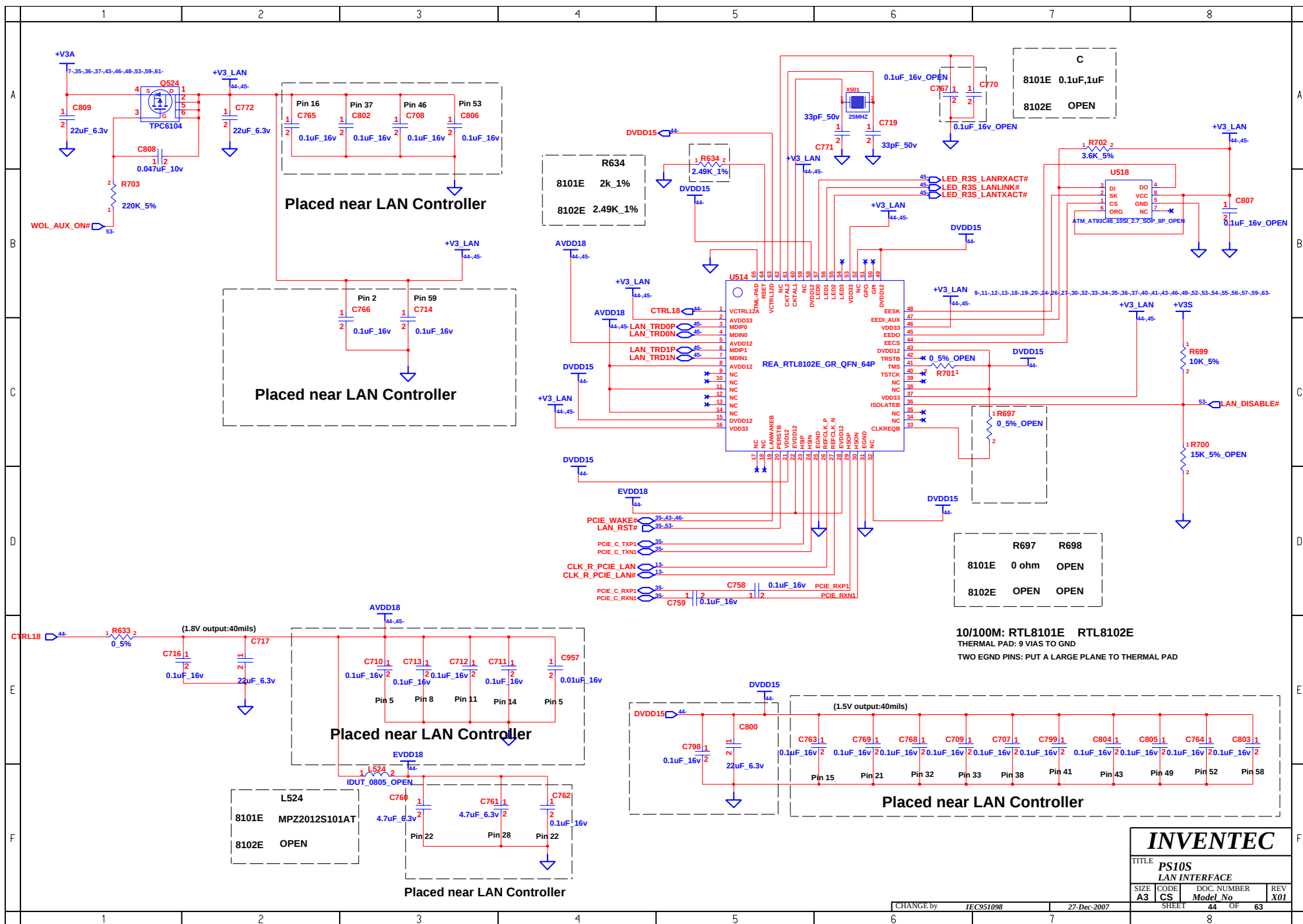
INVENTEC

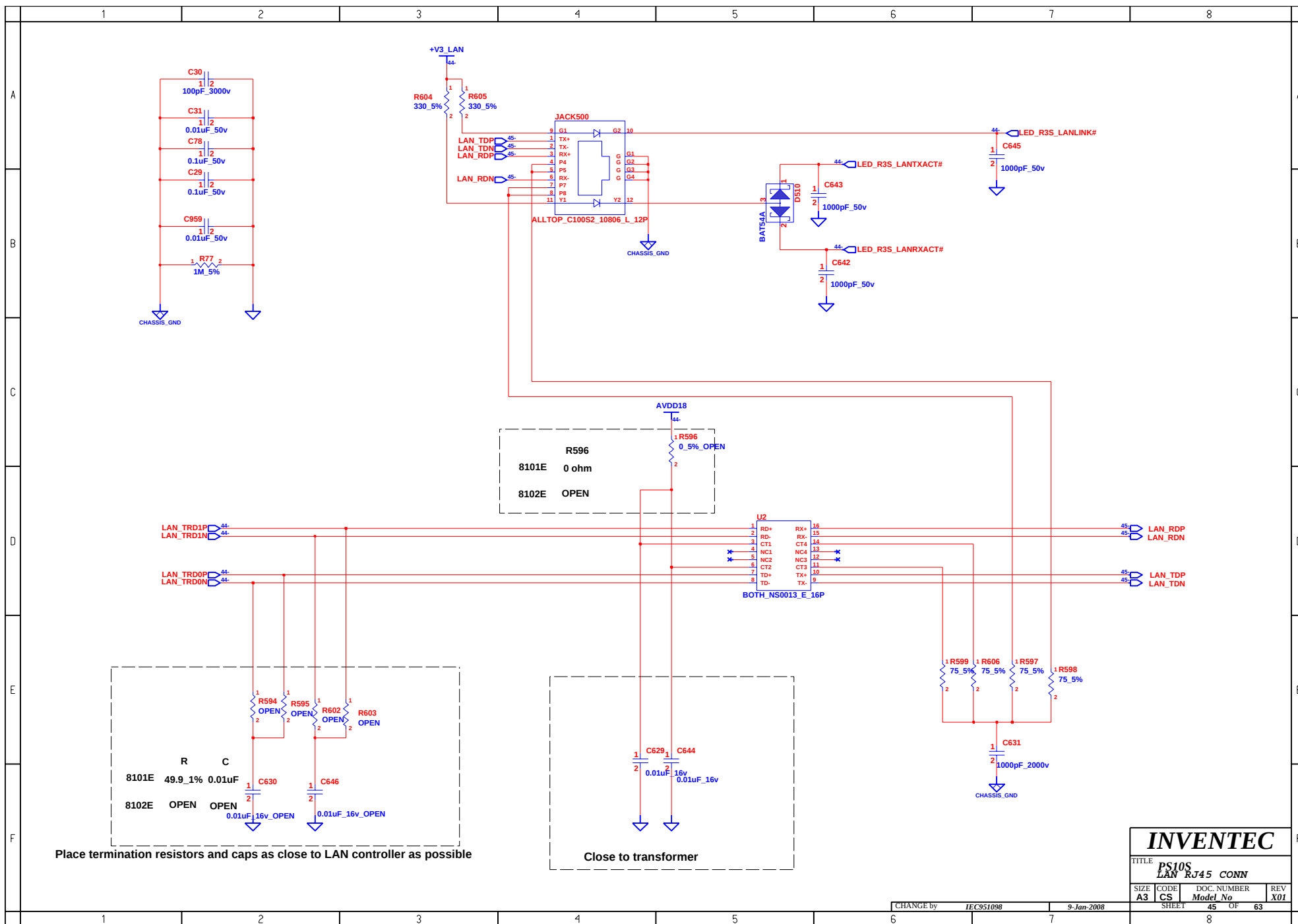
TITLE
PS10S
Express Card

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by IEC951098 30-Nov-2007

SHEET 43 OF 63





A



D



A

3 |

3

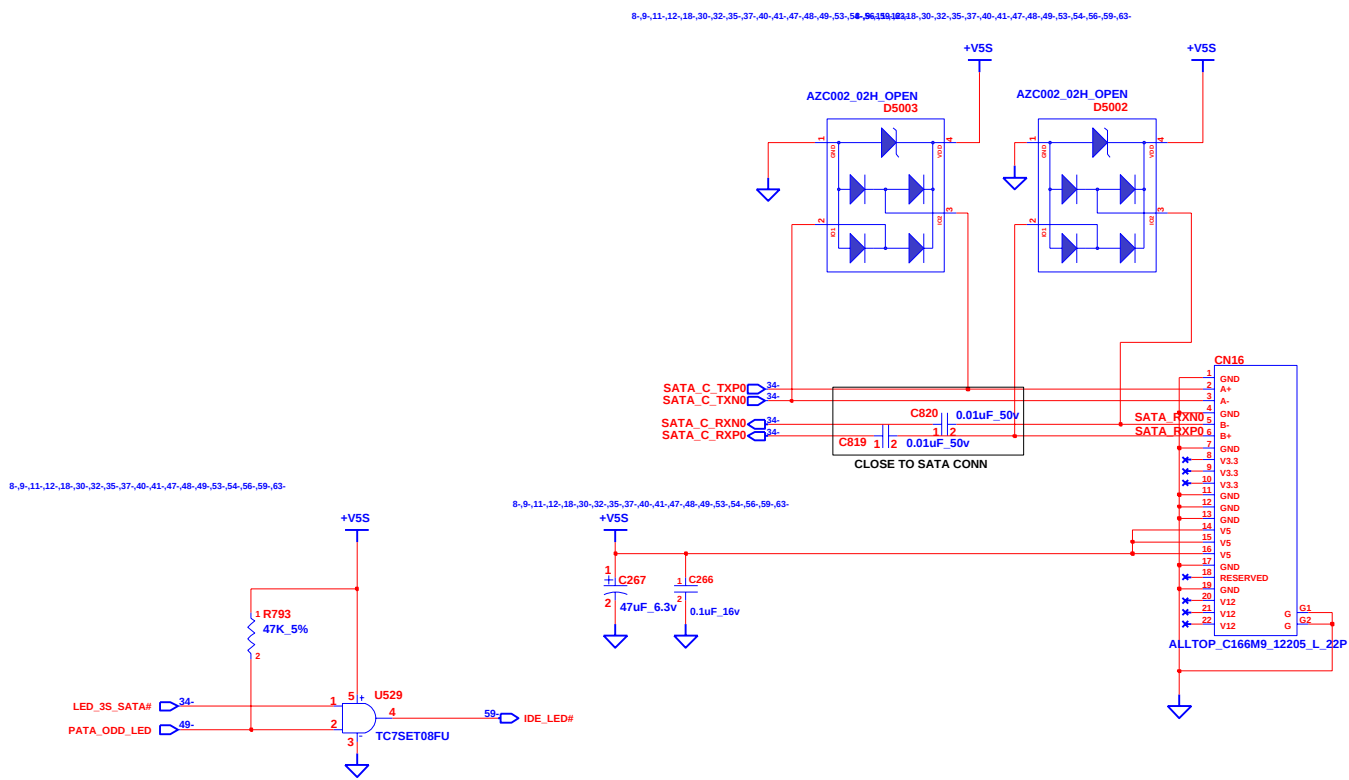
D I

1

	4-Dec-2007
--	------------

CS	Model No
SHEET	46 OF 63

SATA HDD01

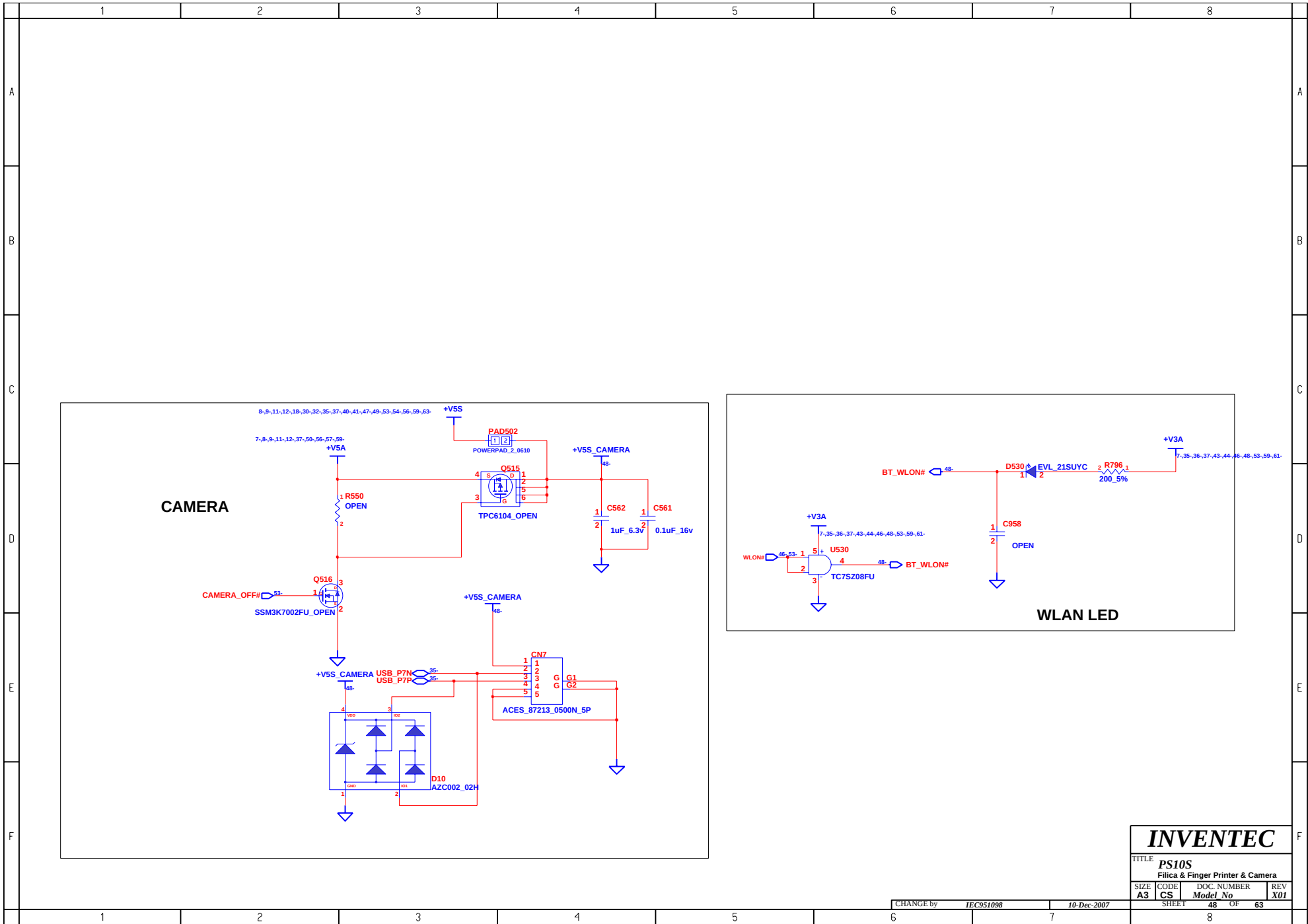


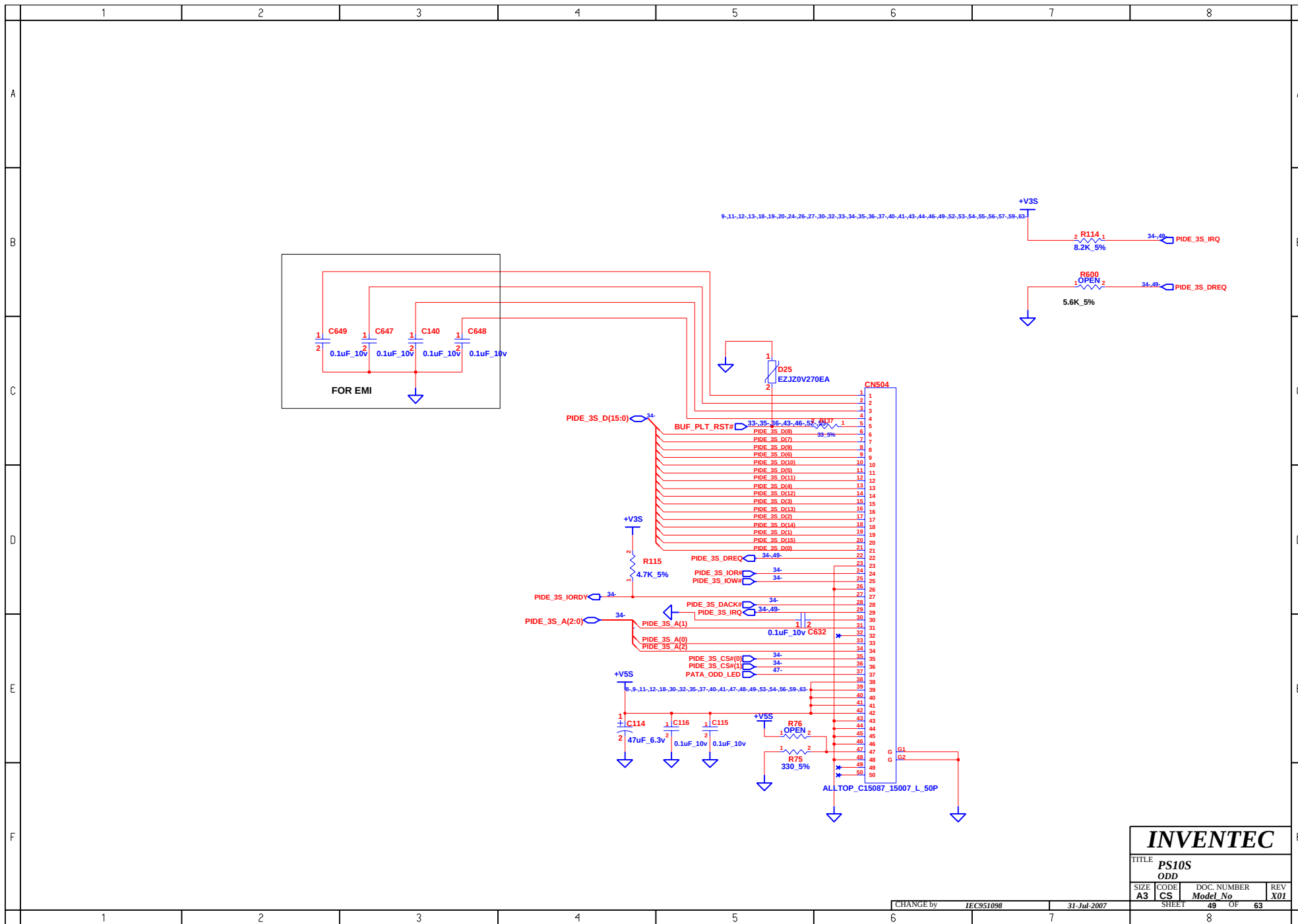
INVENTEC

TITLE			
PS10S			
SATA HDD CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

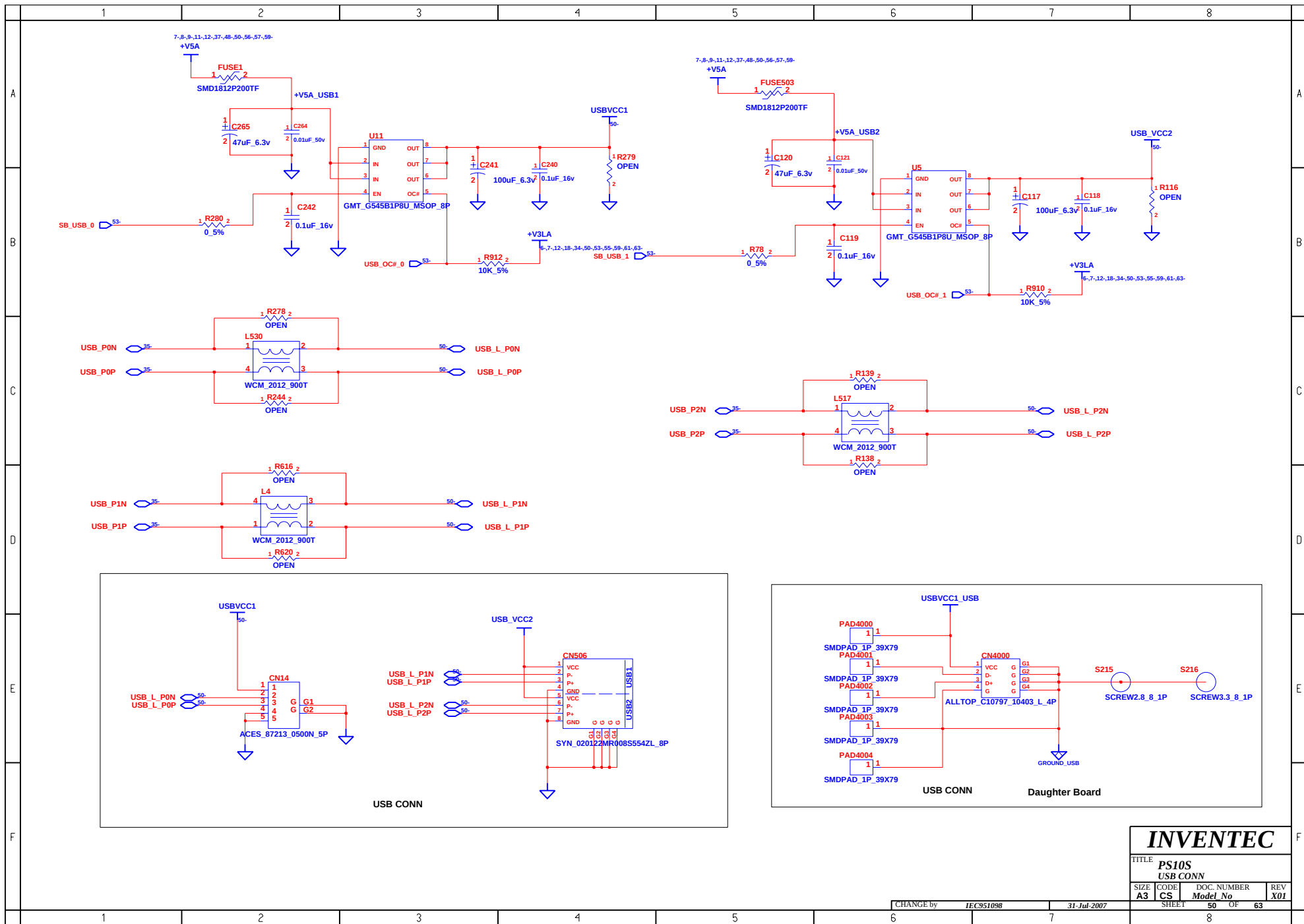
CHANGE by IEC951098 30-Nov-2007

SHEET 47 OF 63





INVENTEC			
TITLE PS10S ODD			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01
CHANGE by IEC951098		31-Jul-2007	
SHEET 49		OF 63	



INVENTEC

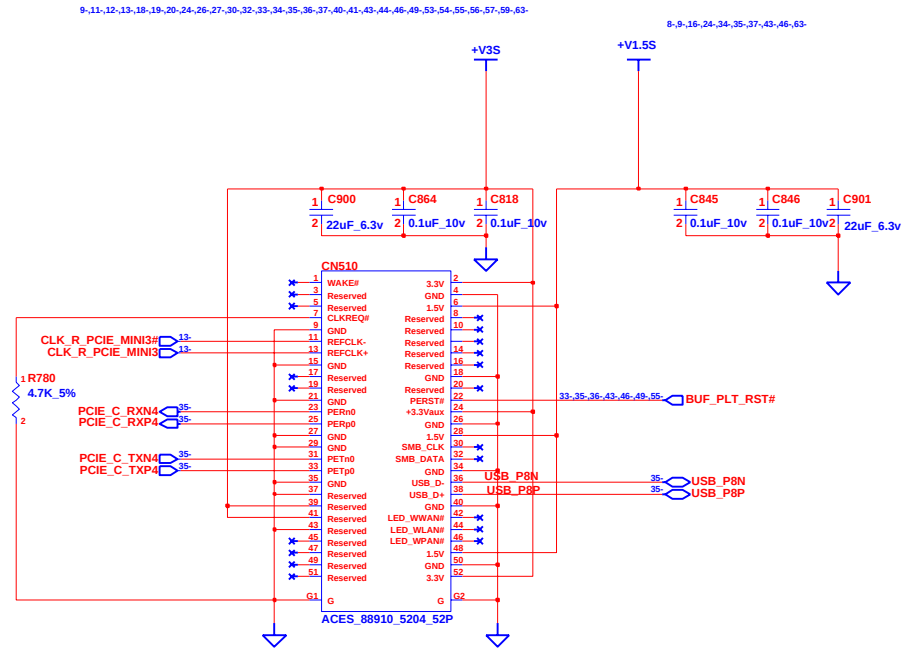
TITLE			
PS10S			
USB CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		50	OF 63

CHANGE by IEC951098 31-Jul-2007

	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 PS10S BLUETOOTH			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01
CHANGE by IEC951098		30-Nov-2007	
SHEET 51		OF 63	

HD_DVD

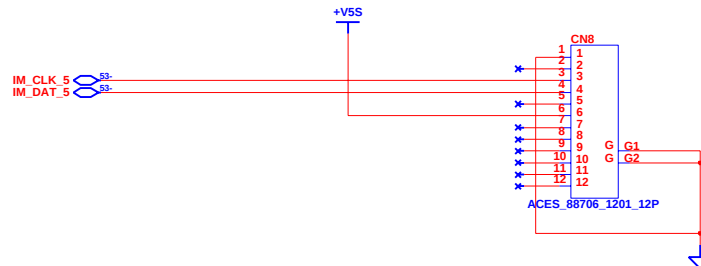
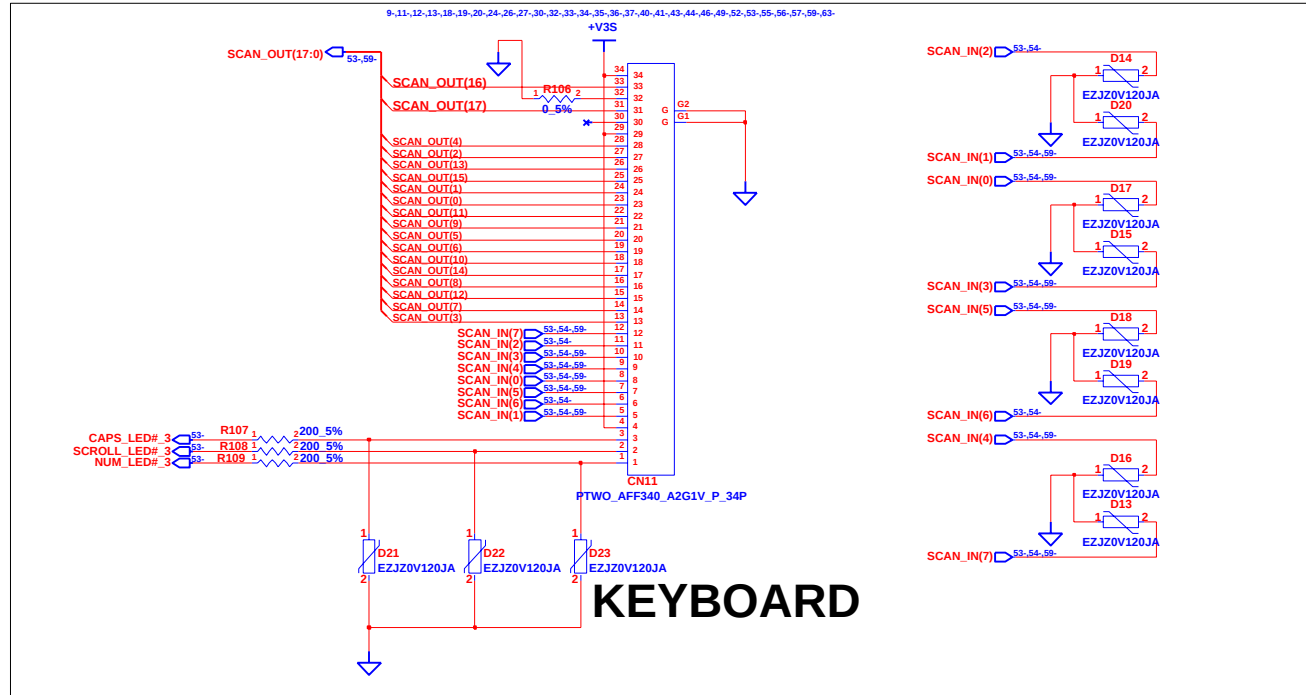


INVENTEC

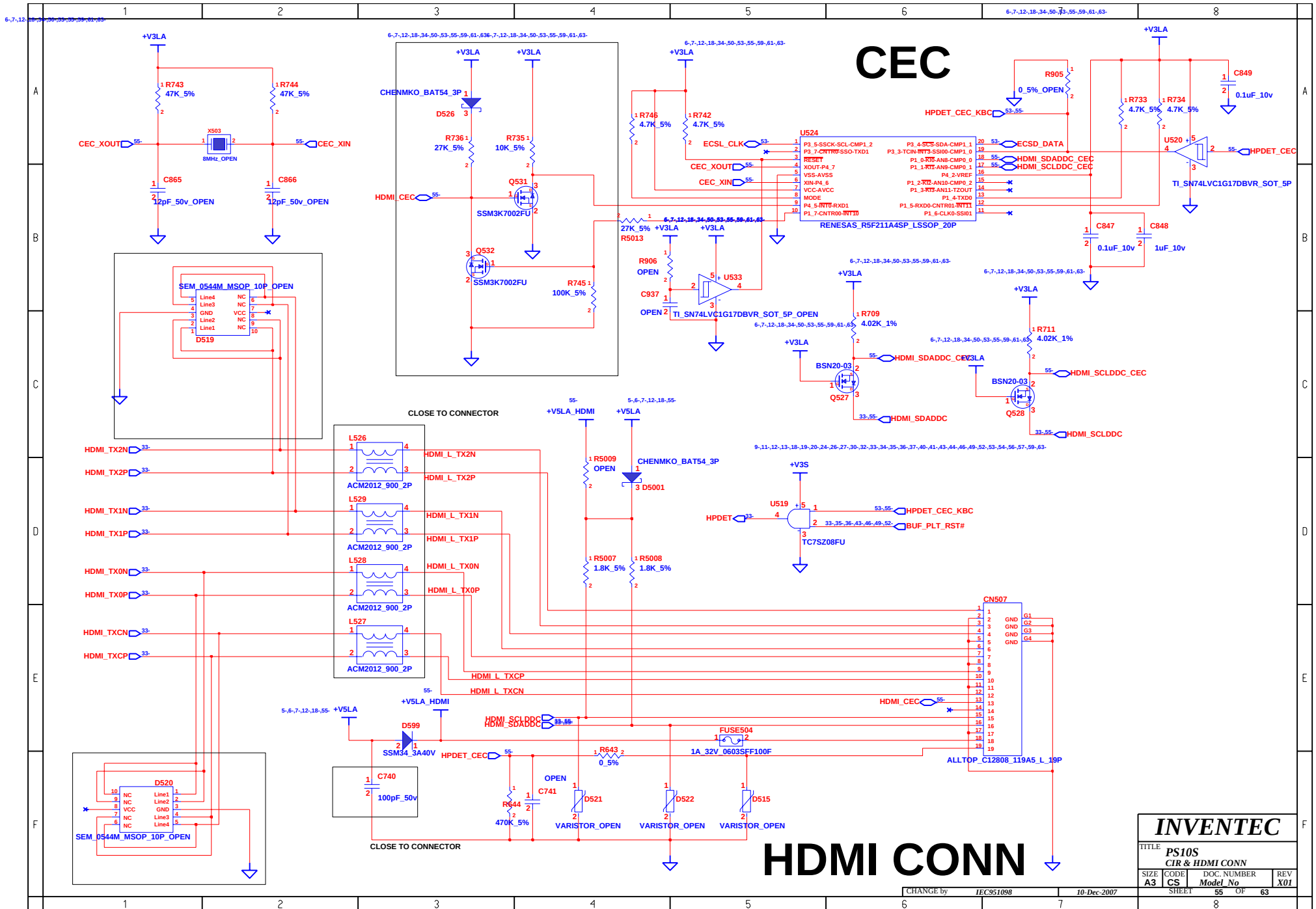
TITLE			
PS10S			
3G_SIM			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

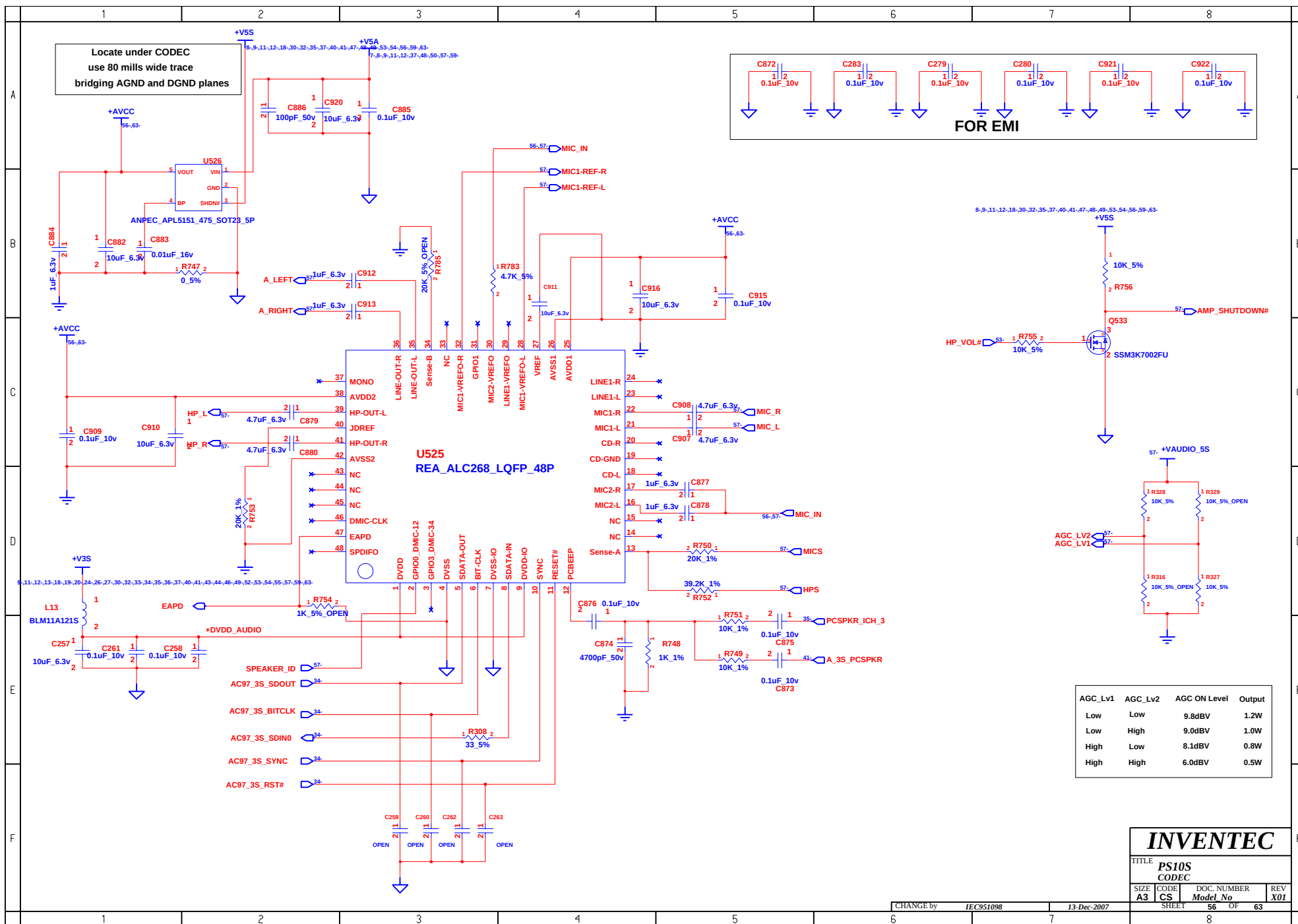
CHANGE by IEC951098 27-Dec-2007

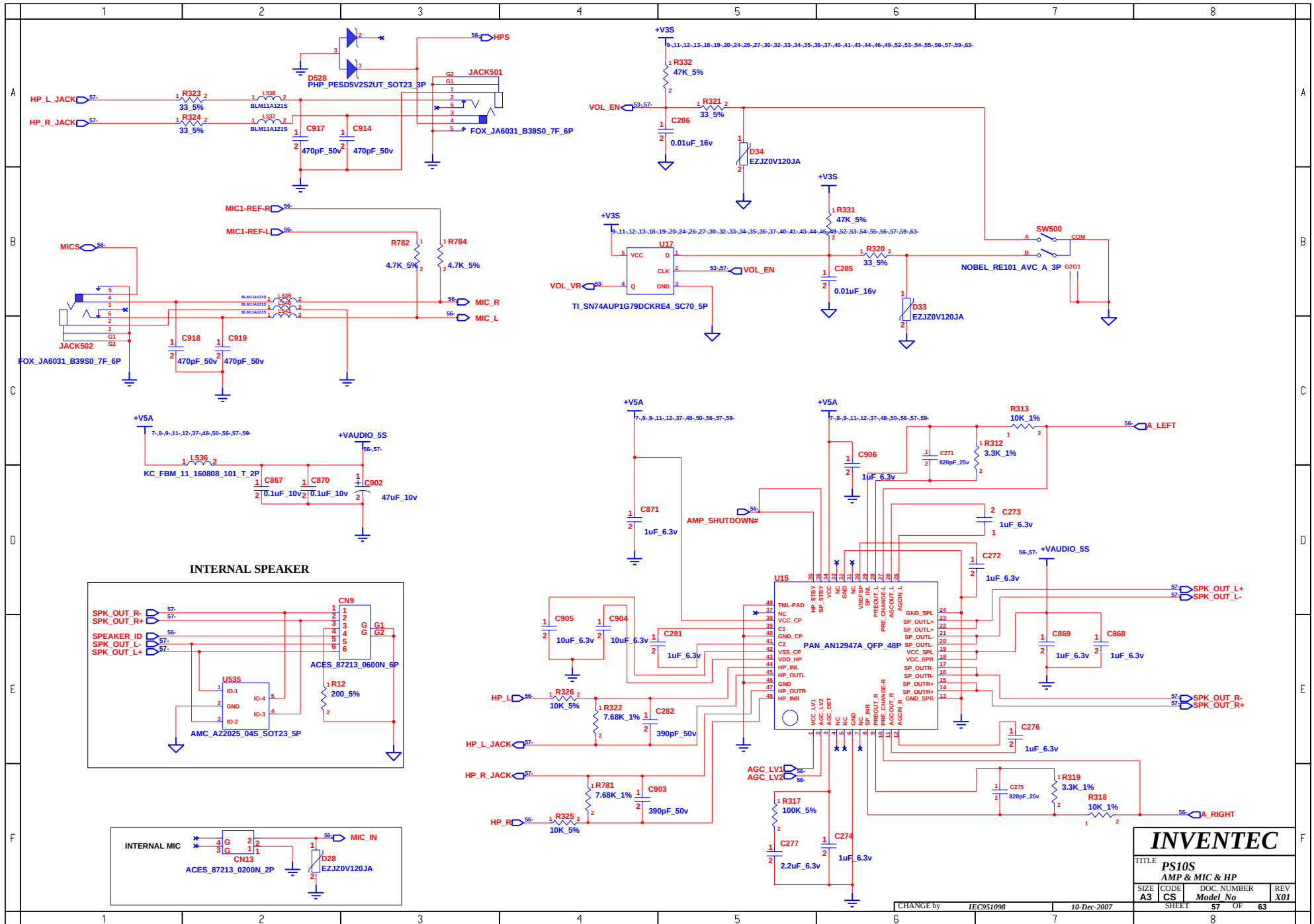
SHEET 52 OF 63

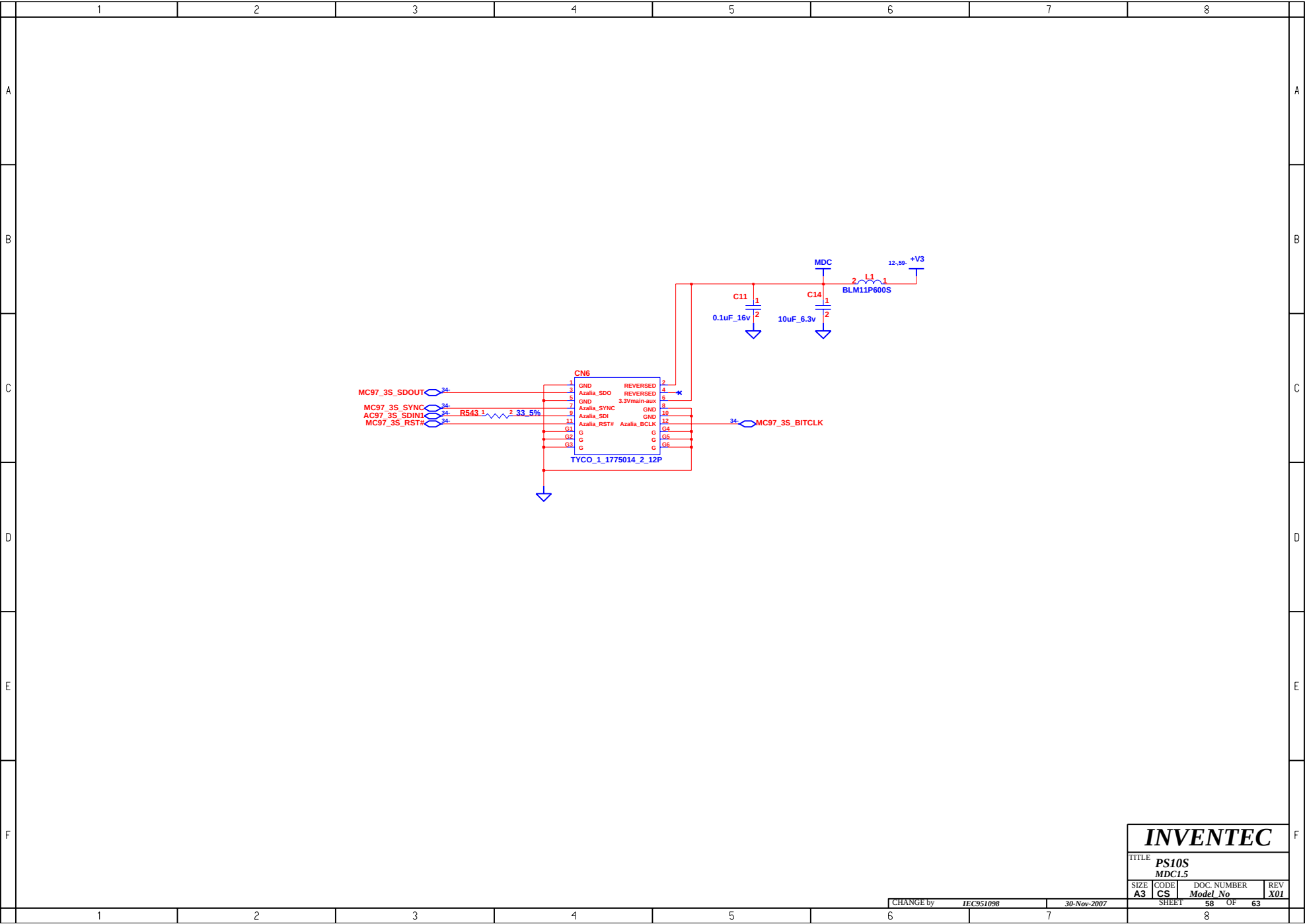


INVENTEC			
TITLE			
PS10S			
INT.KBC/POINT DEVICES			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
CHANGE by		10-Dec-2007	
IEC951098			
SHEET		54	OF 63
		8	









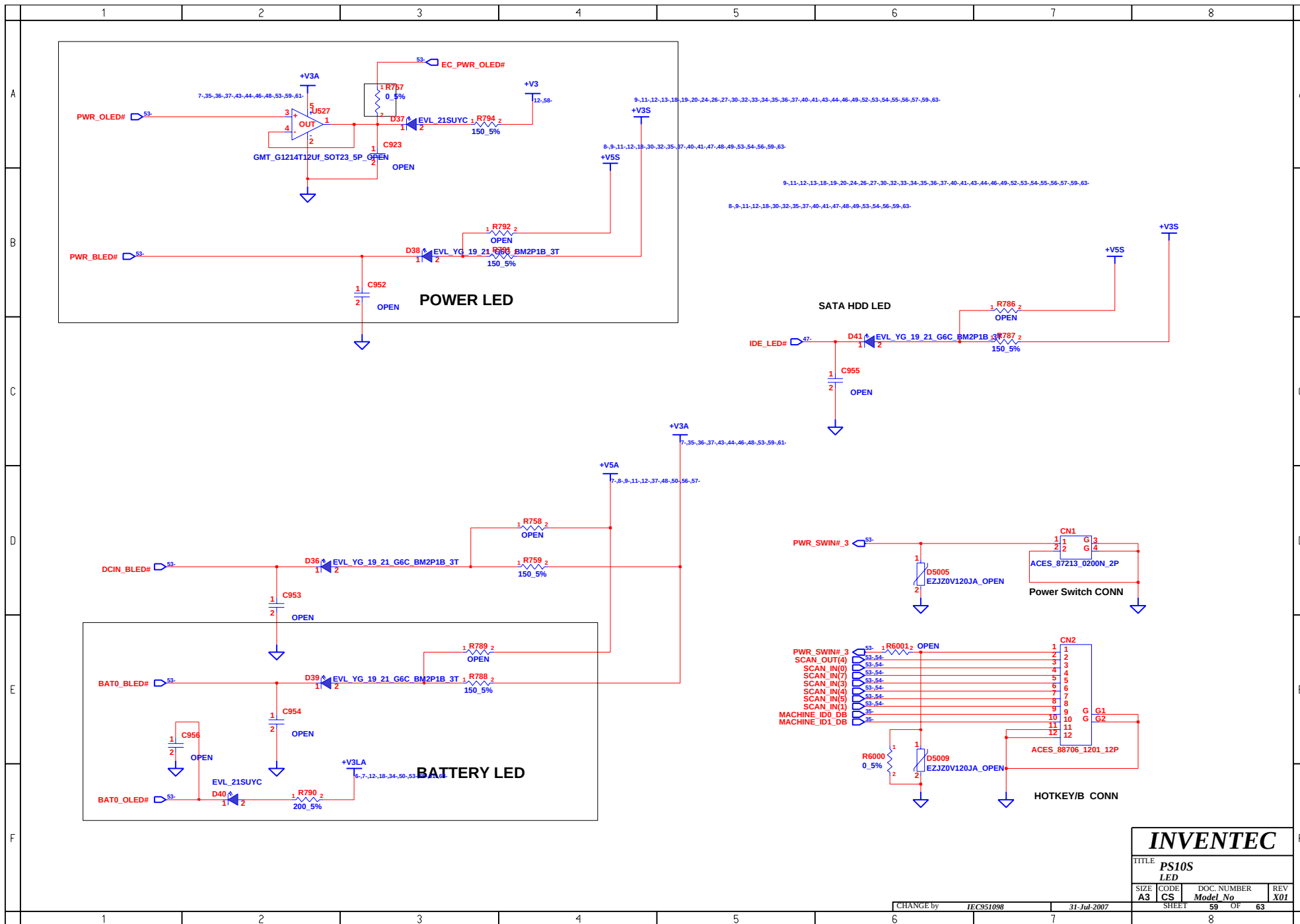
INVENTEC

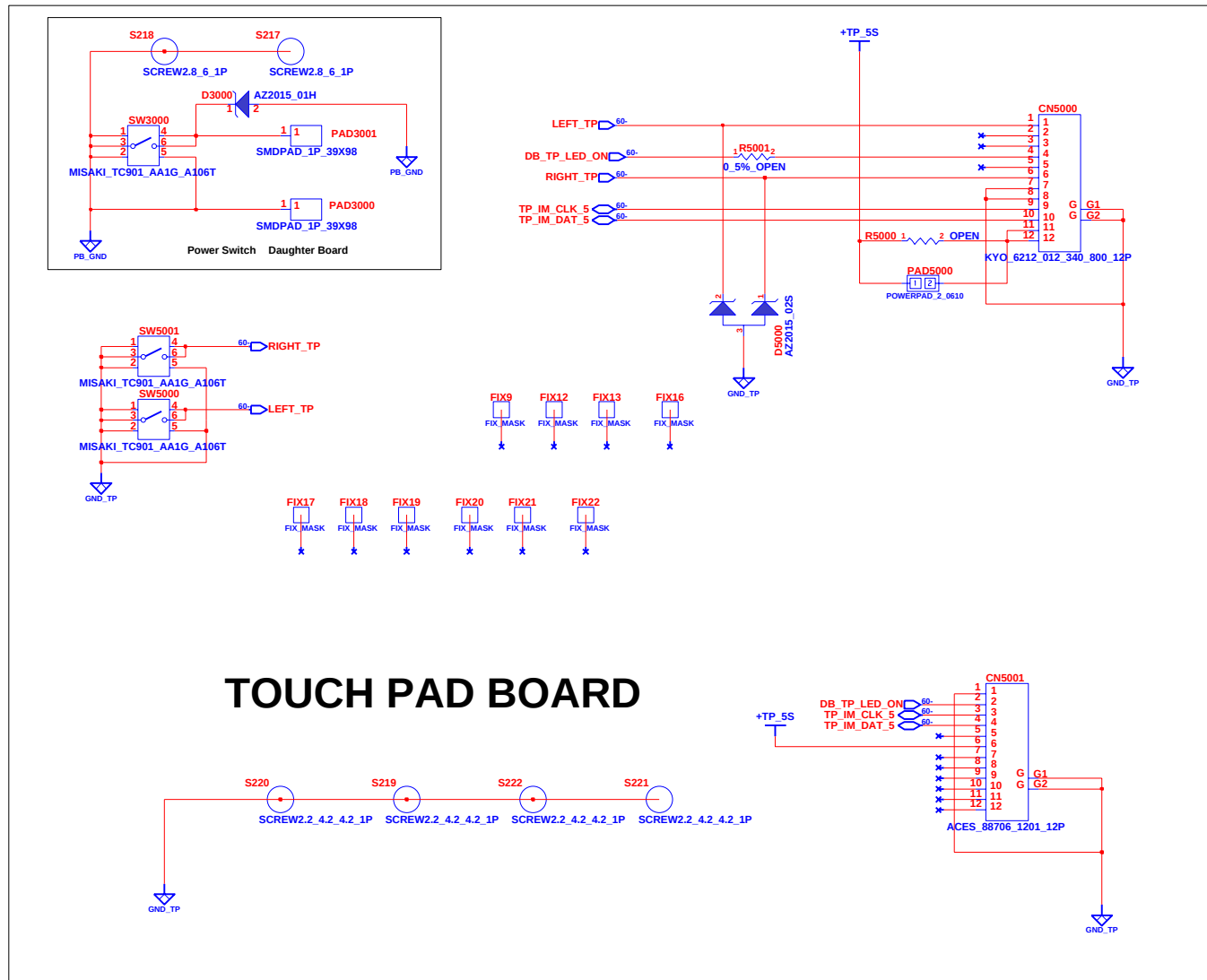
TITLE
PS10S
MDC1.5

SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01
-------------------	-------------------	--------------------------------	-------------------

CHANGE by **IEC951098** 30-Nov-2007

SHEET **58** OF **63**



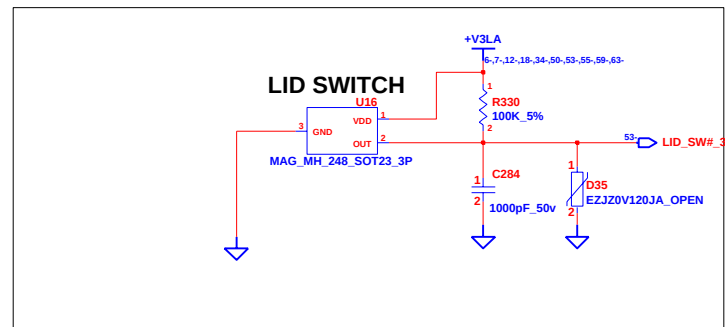
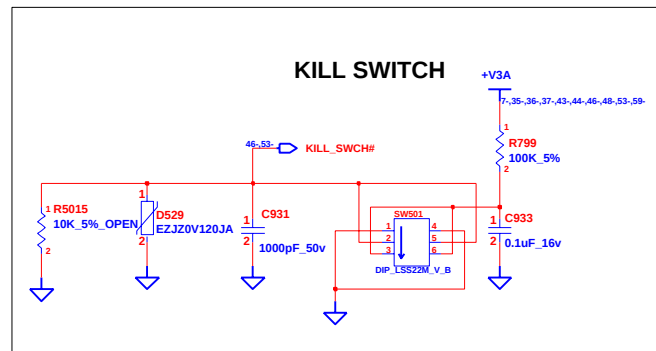


INVENTEC

TITLE PS10S Touch Pad Board			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01

CHANGE by IEC951098 5-Nov-2007

SHEET 60 OF 63



INVENTEC

TITLE	PS10S <i>Kill SW & Lid SW</i>
-------	---

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by	IEC951098	31-Jul-2007
-----------	-----------	-------------

CS	Model No
SHEET	61 OF 63

