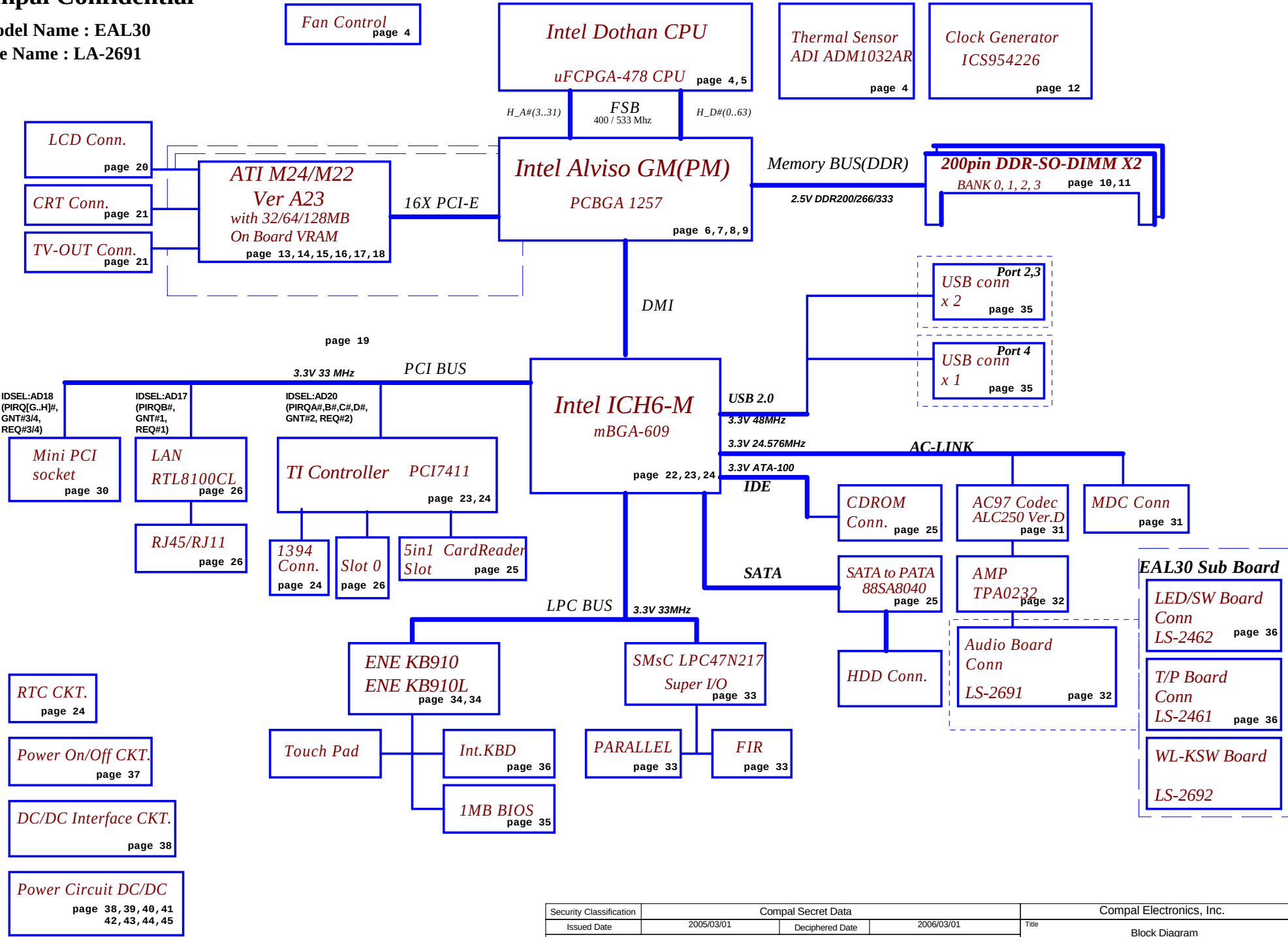


Compal Confidential

Model Name : EAL30
File Name : LA-2691



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number
				Custom	EAL30 LA-2691
				Date	Rev
				三月 03, 2005	1.0
				Sheet	1 of 52

Compal Confidential

Fortworth Alviso

EAL30 LA-2691 Schematic

uFC-PGA Dothan / 915 PM/GM/910GML
ATI M24/M24C/M22 Ver A23 with 64M/128M VRAM / ICH6-M

2005 - 03 - 01

REV:1.0

Security Classification	Compal Secret Data			Compal Electronics, Inc.	
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Cover Sheet	
				Size Custom	Rev 1.0
				Document Number	EAL30 LA-2691
				Date: 星期五, 三月 04, 2005	Sheet 1 of 52

Voltage Rails

Power Plane	Description	S0-S1	S3	S5
VIN	Adapter power supply (19V)	N/A	N/A	N/A
B+	AC or battery power rail for power circuit	N/A	N/A	N/A
+CPU_CORE	Core voltage for CPU	ON	OFF	OFF
+1.05VS	1.05V rail for Processor I/O	ON	OFF	OFF
+1.25VS	1.25V switched power rail for DDR Vtt	ON	OFF	OFF
+VGA_CORE	1.2V/1.0V switched power rail for VGA core power	ON	OFF	OFF
+1.2VS	1.2V for VGA PCIE power	ON	OFF	OFF
+1.5VALW	1.5V always on power rail	ON	ON	ON*
+1.5VS	1.5V switched power rail	ON	OFF	OFF
+1.8VS	1.8V switched power rail for VGA frame buffer	ON	OFF	OFF
+2.5V	2.5V power rail for system DDR	ON	ON	OFF
+3VALW	3.3V always on power rail	ON	ON	ON*
+3V	3.3V switched power rail	ON	ON	OFF
+3VS	3.3V switched power rail	ON	OFF	OFF
+5VALW	5V always on power rail	ON	ON	ON*
+5VS	5V switched power rail	ON	OFF	OFF
+12VALW	12V always on power rail	ON	ON	ON*
RTCVCC	RTC power	ON	ON	ON*

Note : ON* means that this power plane is ON only with AC power available, otherwise it is OFF.

ICH6-M I2C / SMBUS ADDRESSING

DEVICE	HEX	ADDRESS
DDR SO-DIMM 0	A0	1 0 1 0 0 0 0 X
DDR SO-DIMM 1	A2	1 0 1 0 0 0 1 X
CLOCK GENERATOR (EXT.)	D2	1 1 0 1 0 0 1 X

KB910 I2C / SMBUS ADDRESSING

DEVICE	HEX	ADDRESS
SM1 24C16	A0H	1 0 1 0 0 0 0 X b
SM1 SMART BATTERY	16H	0 0 0 1 0 1 1 X b
SM2 ADM0132 CPU THERMAL MONITOR	98H	1 0 0 1 1 0 0 X b
SM2 ALC250 codec	00H	0 0 0 0 0 0 0 X b

External PCI Devices

DEVICE	PCI Device ID	IDSEL #	REQ/GNT #	PIRQ
1394	D0	AD20	2	A,B,C,D
LAN	D1	AD17	3	F
CARD BUS	D4	AD20	2	A,B,C,D
SIN1	D4	AD20	2	A,B,C,D
Mini-PCI	D2	AD18	1	G,H

Symbol note:

-  :means digital ground.
-  :means analog ground.
- @ :means reserved.

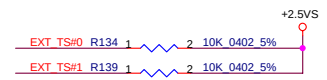
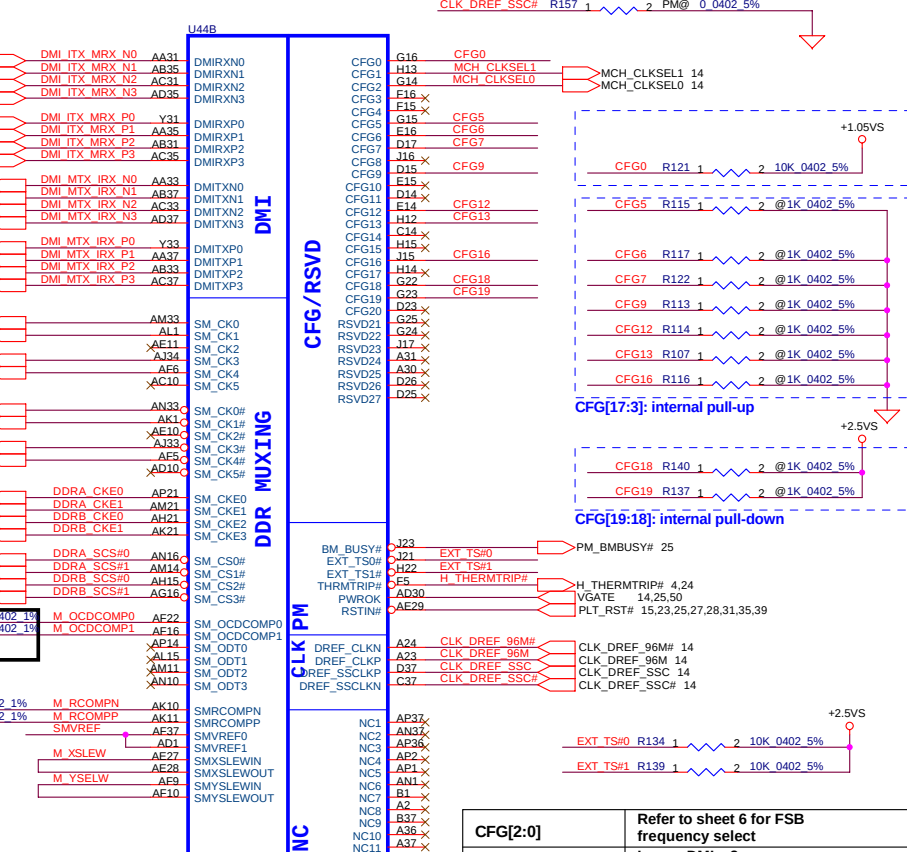
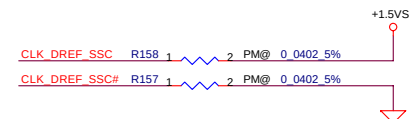
Fortworth Alviso Comparison Table

Item	* Descrite	UMA	Page
VGA	ATi M22P/24P	UMA	15 ~ 18
VRAM	128MB/64MB	N/A	19 ~ 20

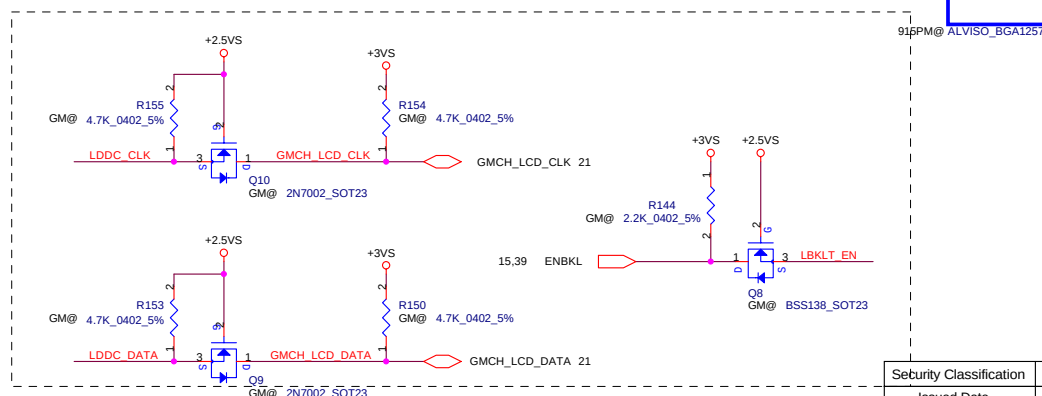
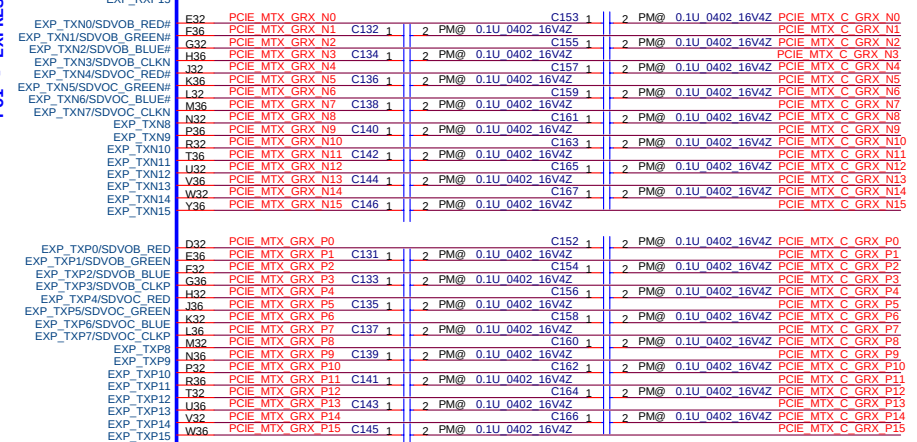
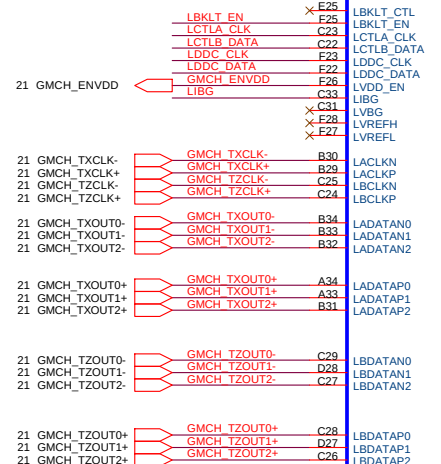
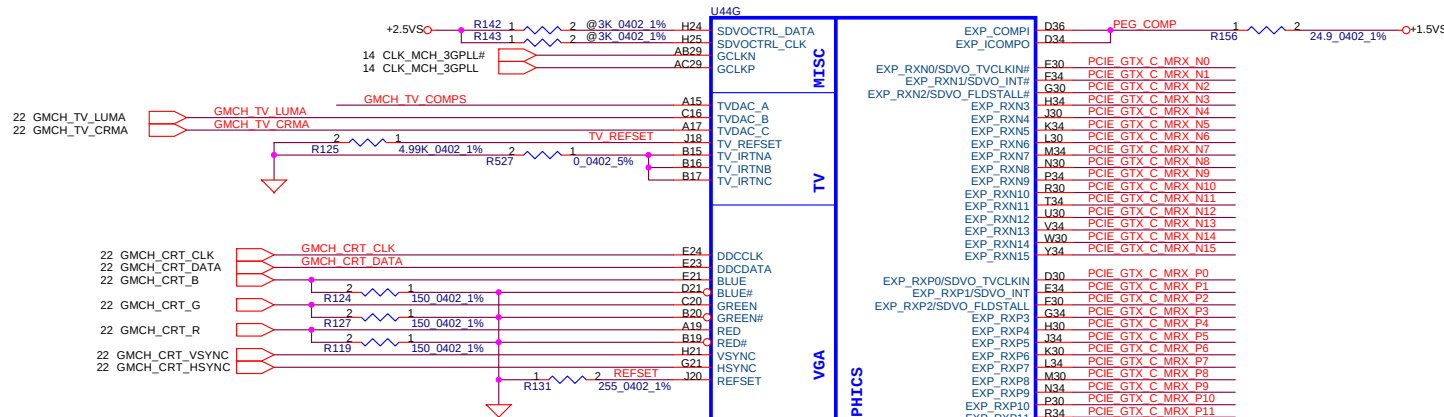
Board ID Table for AD channel

Vcc	3.3V +/- 5%			
Ra	10K +/- 5%			
BID/PID	Rb/Rc	VAD_BID min	VAD_BID typ	VAD_BID max
0	0	0 V	0 V	0.1 V
1	8.2K +/- 5%	1.412 V	1.486 V	1.560 V
2	18K +/- 5%	2.015 V	2.121 V	2.227 V
3	33K +/- 5%	2.406 V	2.533 V	2.659 V
4	56K +/- 5%	2.660 V	2.800 V	2.940 V
5	NC	3.135 V	3.300 V	3.465 V

Board ID	PCB Revision
* 0	0.1
1	
2	
3	
4	
5	
6	
7	



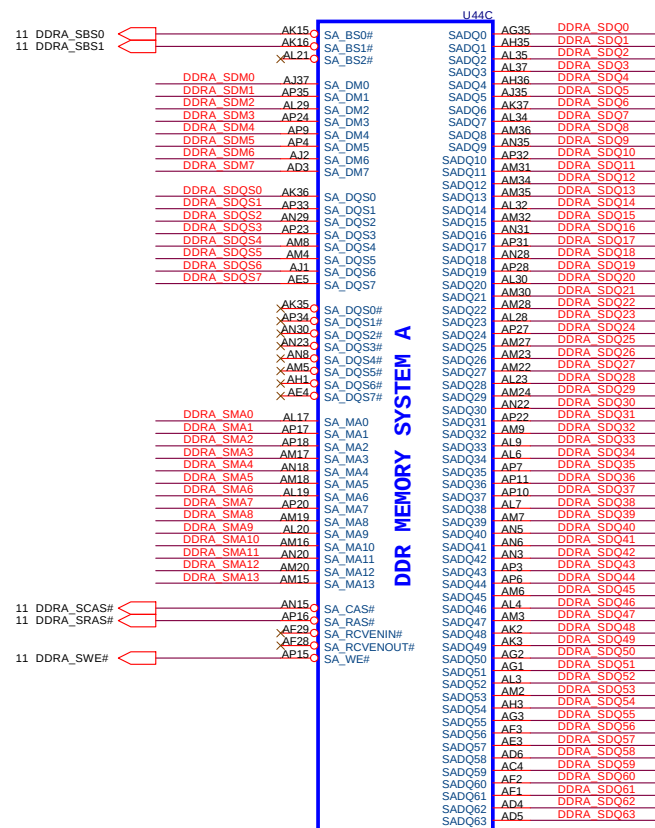
Security Classification		Compal Secret Data		Compal Electronics, Inc.			
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title INTEL Aviso HOST(1/5)			
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number	Rev	
				EAL30 LA-2691		1.0	
				Date:	星期四, 三月 03, 2005	Sheet	6 of 52



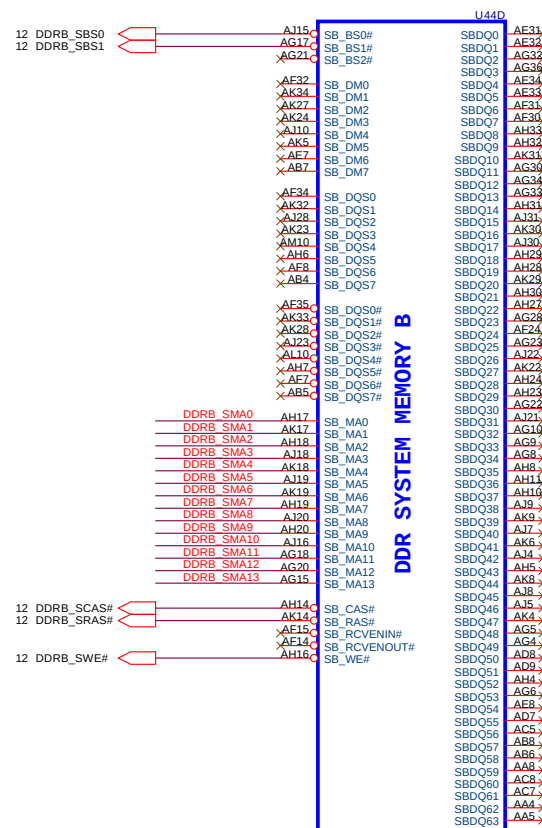
Security Classification		Compal Secret Data		Compal Electronics, Inc.		
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title		
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				INTEL Aviso PCI-E(2/5)		
				Size	Document Number	Rev
				EAL30 LA-2691		
Date: 星期四, 三月 03, 2005				Sheet	7	of 52

11 DDRA_SDQ[0..63] DDRA_SDQ[0..63]
11 DDRA_SDM[0..7] DDRA_SDM[0..7]
11 DDRA_SDQS[0..7] DDRA_SDQS[0..7]
11 DDRA_SMA[0..13] DDRA_SMA[0..13]

12 DDRB_SMA[0..13] DDRB_SMA[0..13]

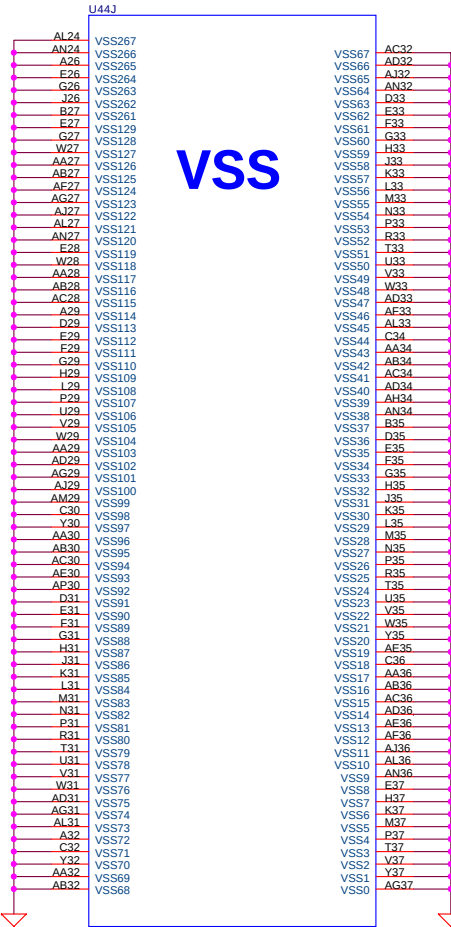
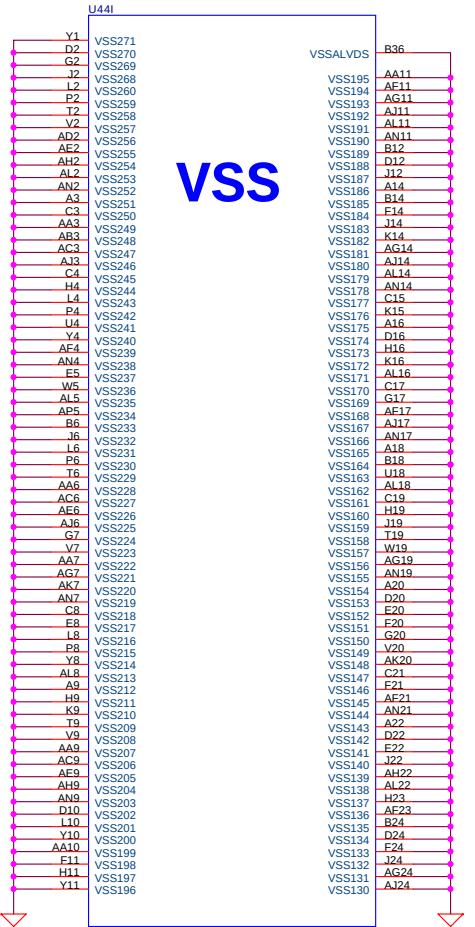
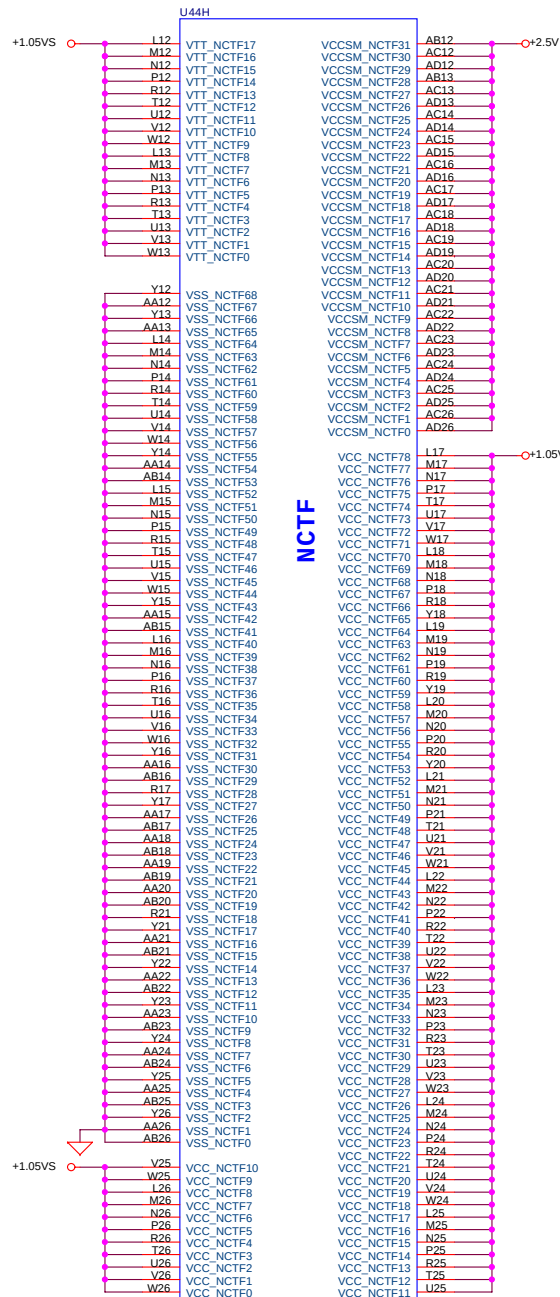


915PM@ ALVISO_BGA1257



915PM@ ALVISO_BGA1257

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title	INTEL Alviso DDR(3/5)
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number
				EAL30 LA-2691	
				Date	Rev
				星期四, 三月 03, 2005	1.0
				Sheet	8 of 52

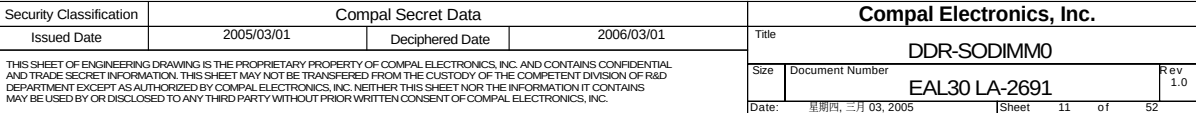


915PM@ ALVISO_BGA1257

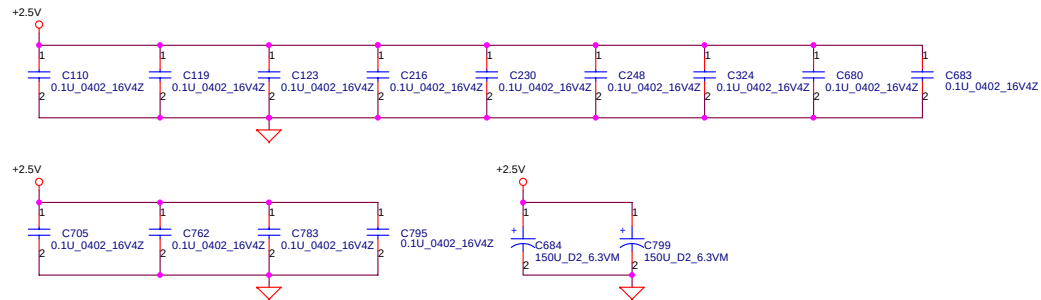
915PM@ ALVISO_BGA1257

915PM@ ALVISO_BGA1257

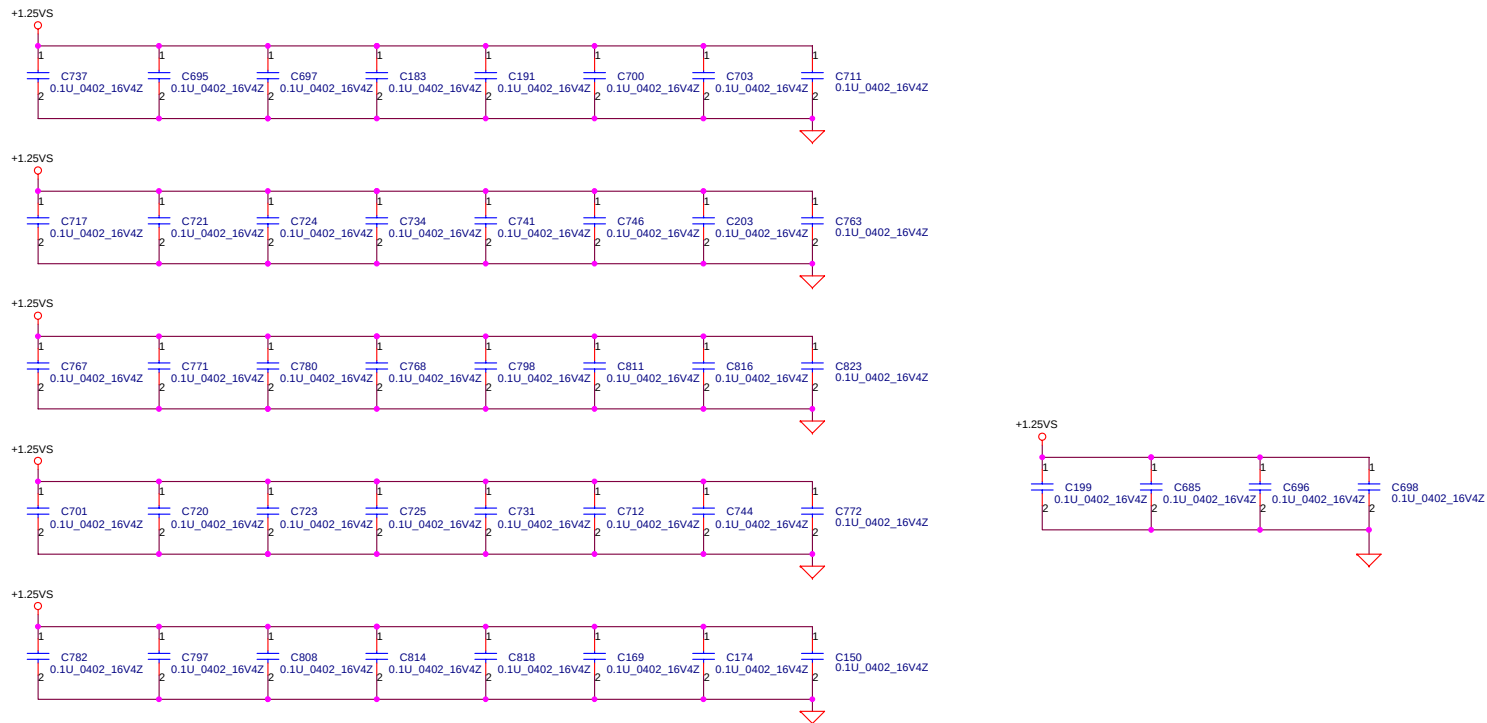
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date		Deciphered Date		Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				INTEL ALVISO POWER(5/5)	
Size		Document Number		Rev	
		EAL30 LA-2691		1.0	
Date		星期四, 三月 03, 2005		Sheet 10 of 52	



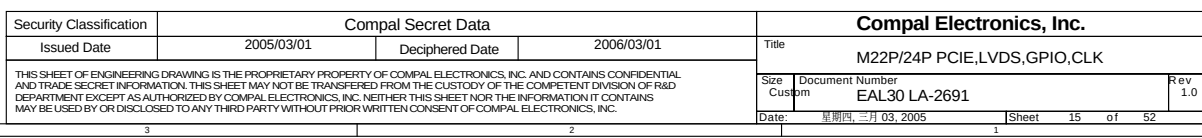
Layout note :
Distribute as close as possible
to DDR-SODIMM.

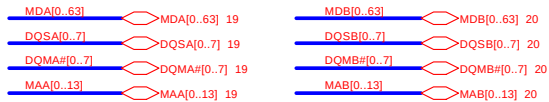


Layout note :
Place one cap close to every 2 pull up resistors termination to
+1.25V



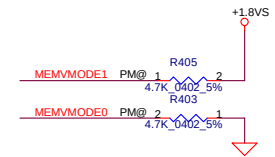
Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title		
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				DDR SODIMM Decoupling		
				Size	Document Number	Rev
					EAL30 LA-2691	1.0
Date: 星期四, 三月 03, 2005				Sheet 13 of 52		



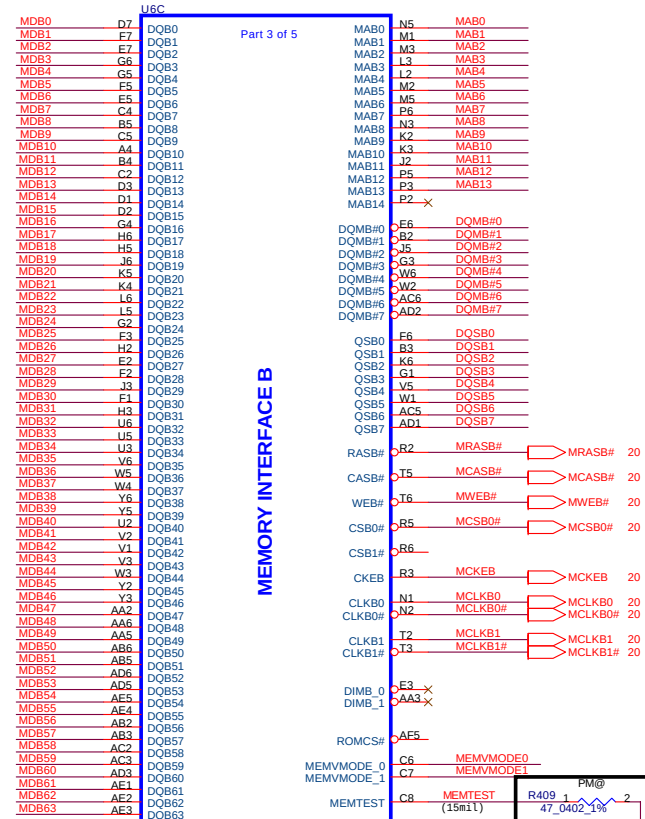
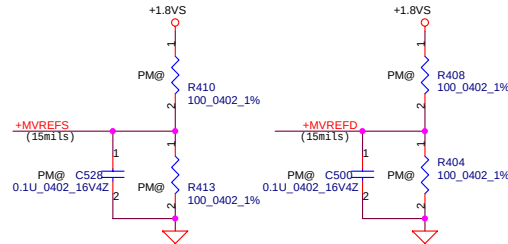


Memory speed MAX200MHZ

	MEMVMODE0	MEMVMODE1
M22/24(1.8V VRAM)	Pull-low	Pull-high
M26(1.8V VRAM)	NC	NC



M24P_BGA708
M24@

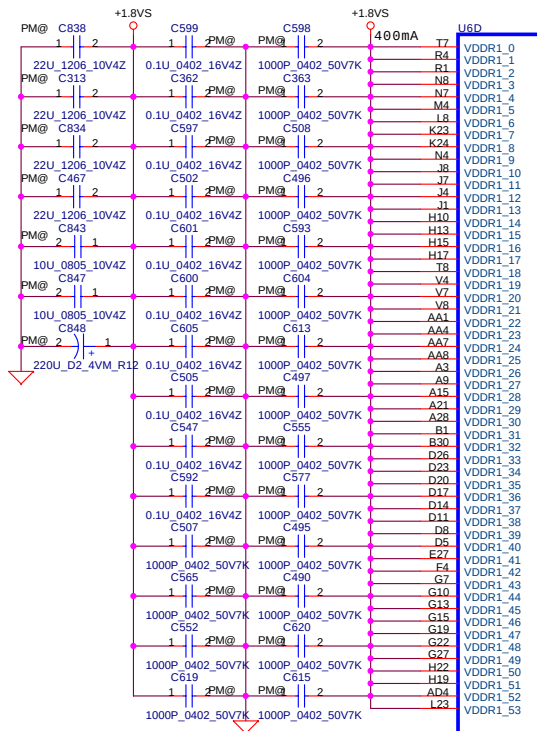
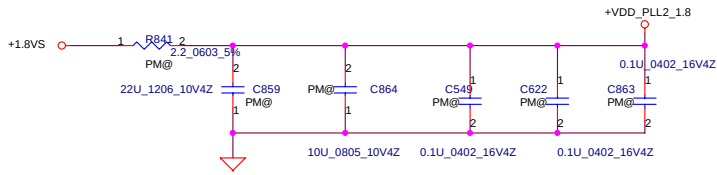
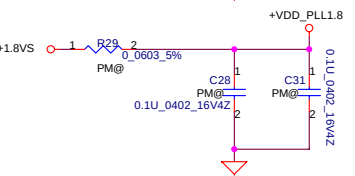
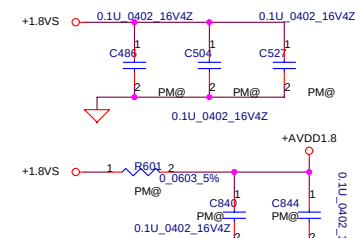
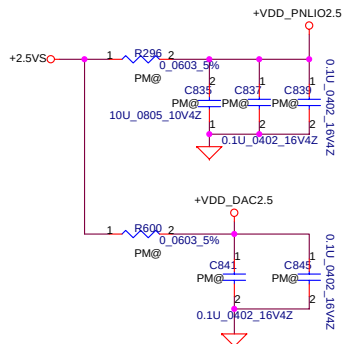
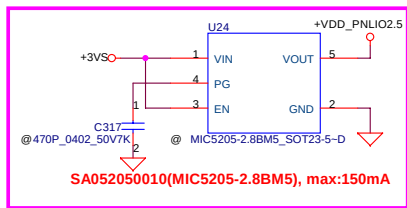


MEMORY INTERFACE B

change to 240 ohm when use M26

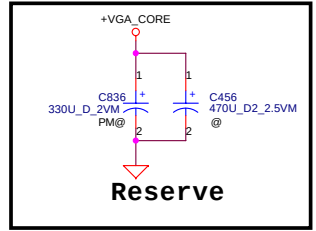
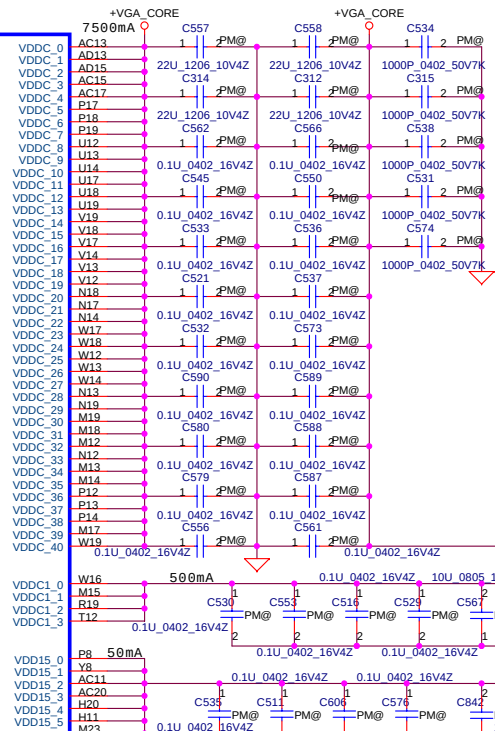
Security Classification	Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				M22P/24P Memory Interface
Size	Document Number	Rev		1.0
	EAL30 LA-2691			
Date	星期四, 三月 03, 2005	Sheet	16	of 52

ATI suggestion:
Using filter is acceptable (Default)
Using liner regulator is optimal. (Reserve)

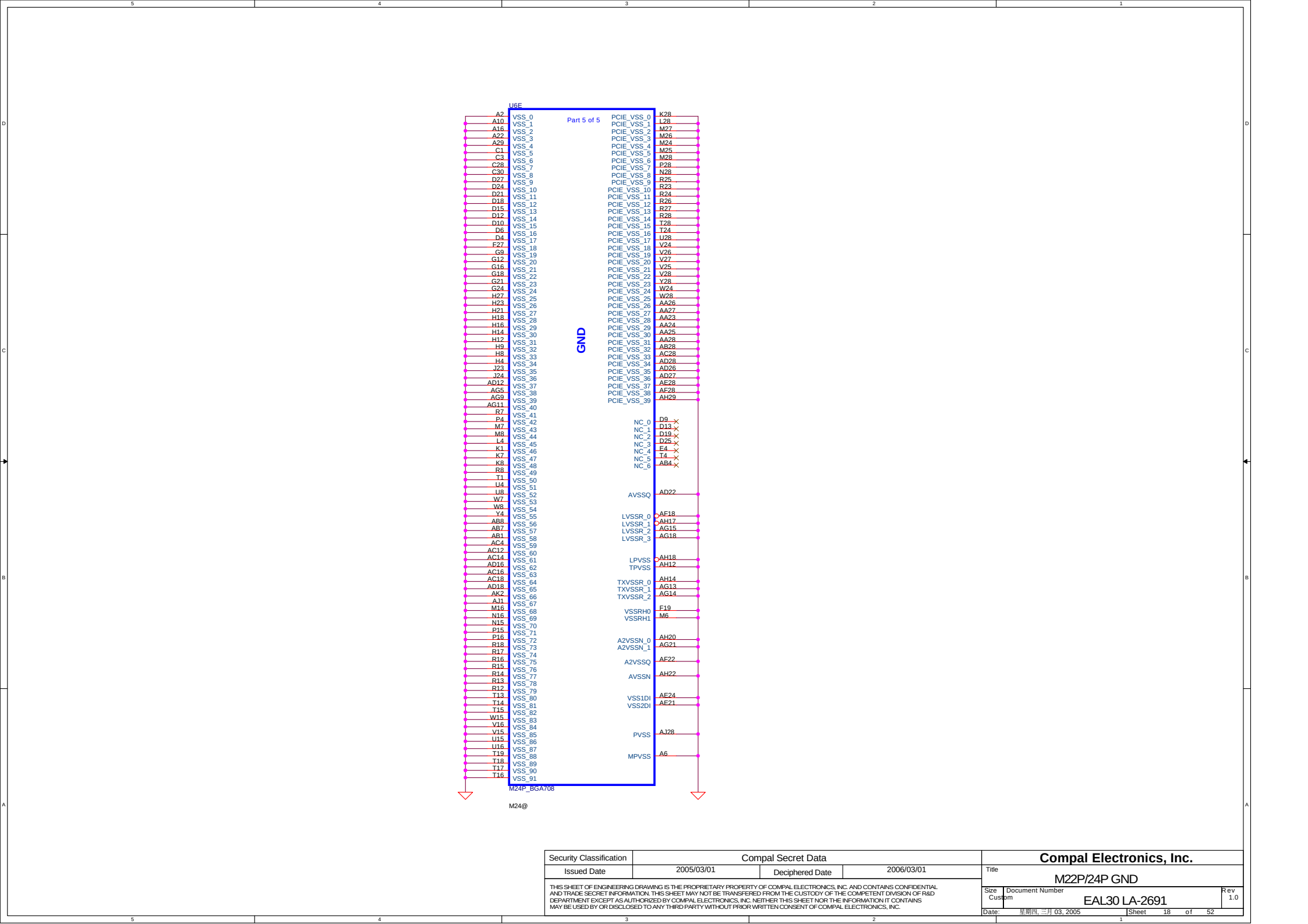


POWER

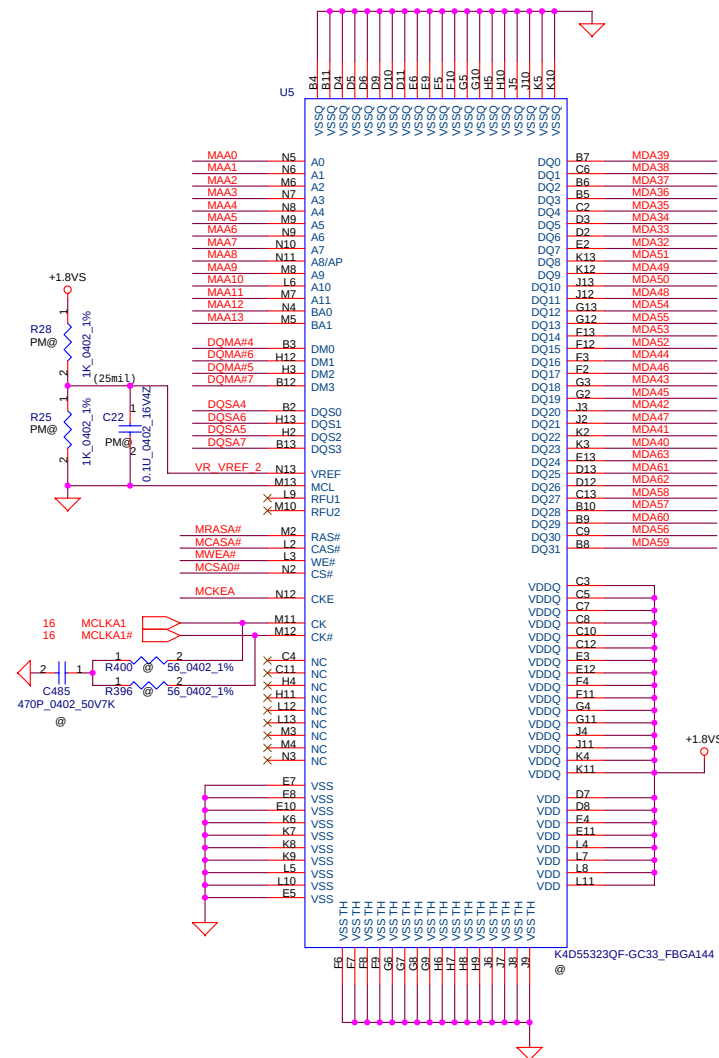
Part 4 of 5



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title	M22P/24PWR
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number
				Custom	EAL30 LA-2691
				Date	Rev 1.0
				星期四, 三月 03, 2005	Sheet 17 of 52

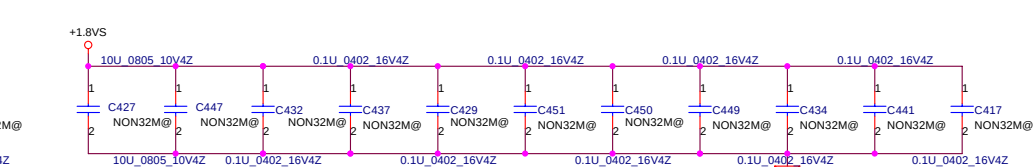
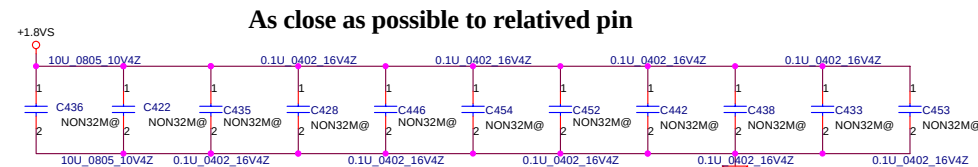


Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title	M22P/24P GND
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number EAL30 LA-2691
				Date: 星期四, 三月 03, 2005	Sheet 18 of 52



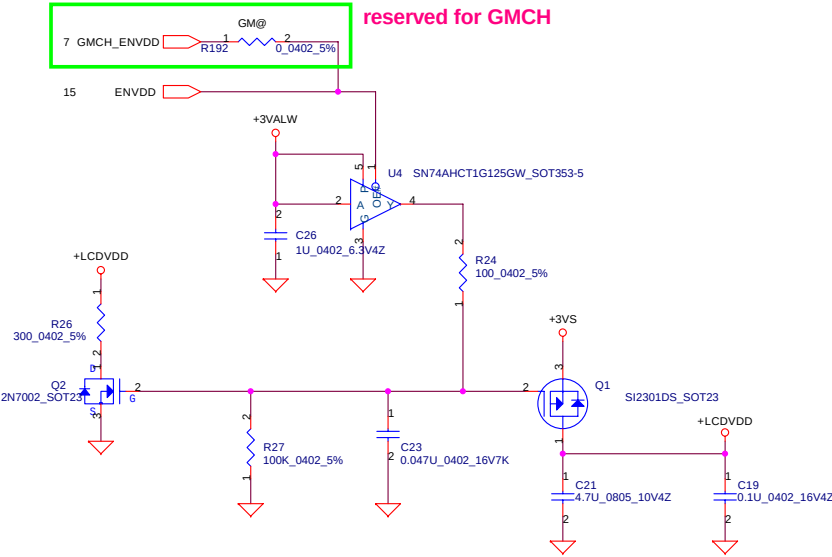
The schematic diagram shows a 100mA current source circuit. It starts with a 1.8V supply connected to a 100k resistor (C472) and a 0.047uF capacitor (0.1uF 0.047 16V4Z). This is followed by a series of resistors (C491, C477, C478, C479, C480, C492, C499, C514, C513, C512) and capacitors (0.1uF, 0.047uF, 16V4Z) connected in a ladder-like configuration. The output is taken from the final node, labeled C512 PM@.

Security Classification		Compal Secret Data		Compal Electronics, Inc.				
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title	VGA DDR CHANNEL A			
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number	Rev		
				Cuspm	EAL30 LA-2691	1.0		
				Date:	星期四, 三月 03, 2005	Sheet	19 of 52	



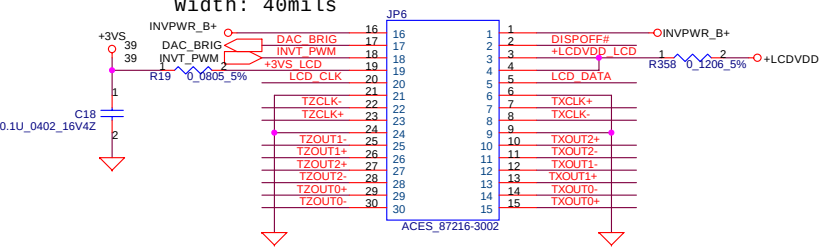
Security Classification		Compal Secret Data		Compal Electronics, Inc.		
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title VGA DDR CHANNEL B		
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number	Rev
				Customer	EAL30 LA-2691	1.0
				Date:	星期四, 三月 03, 2005	Sheet 20 of 52

LCD POWER CIRCUIT

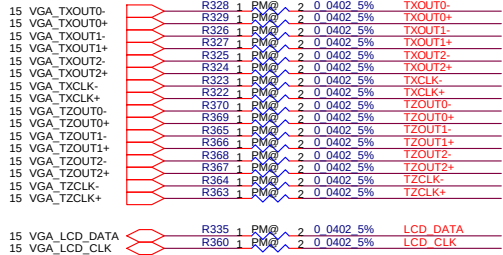


width = 60mil

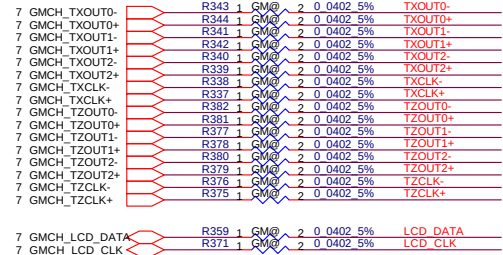
LCD CONN.



For ATI M24

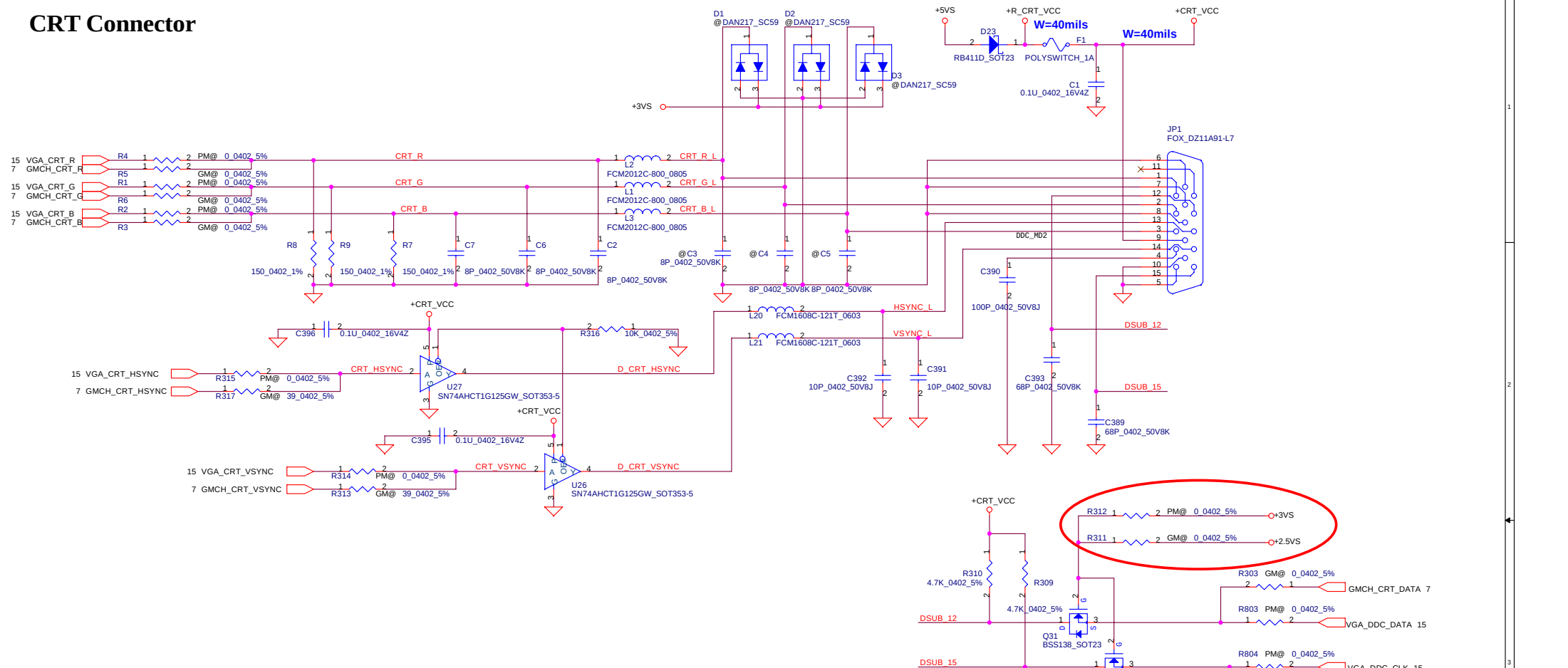


For GMCH

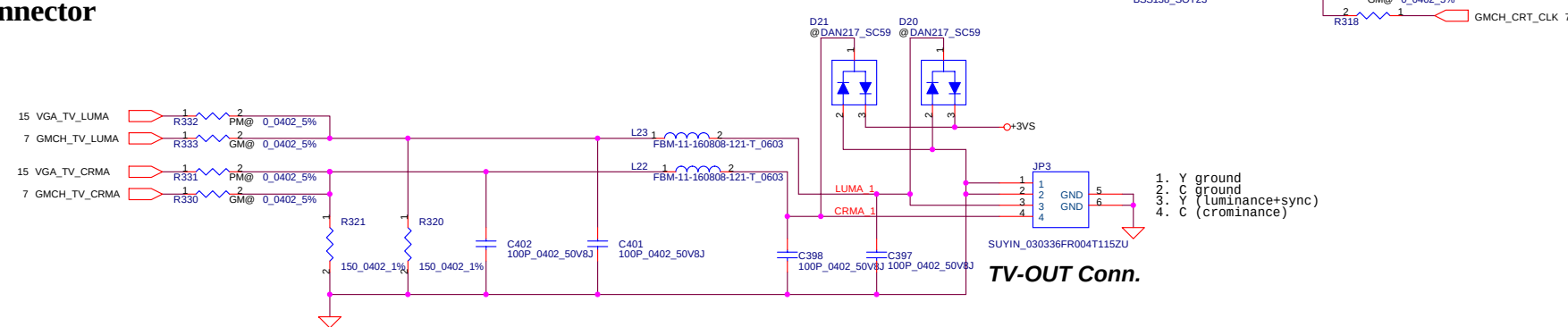


Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				LCD CONN	
Size		Document Number		Rev	
Custom		EAL30 LA-2691		1.0	
Date:		星期三, 三月 03, 2005		Sheet 21 of 52	

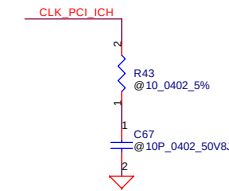
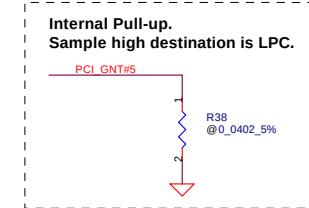
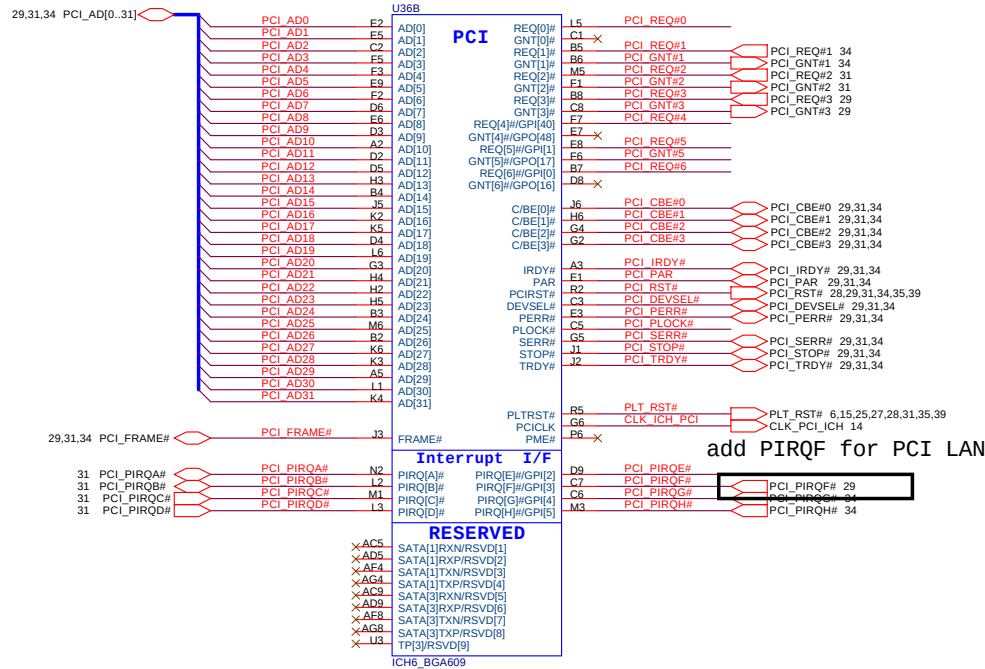
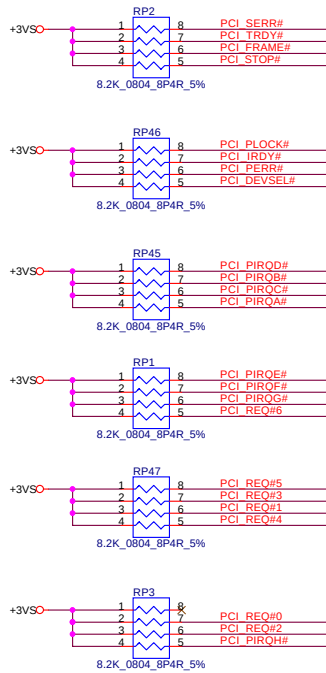
CRT Connector



TV-Out Connector

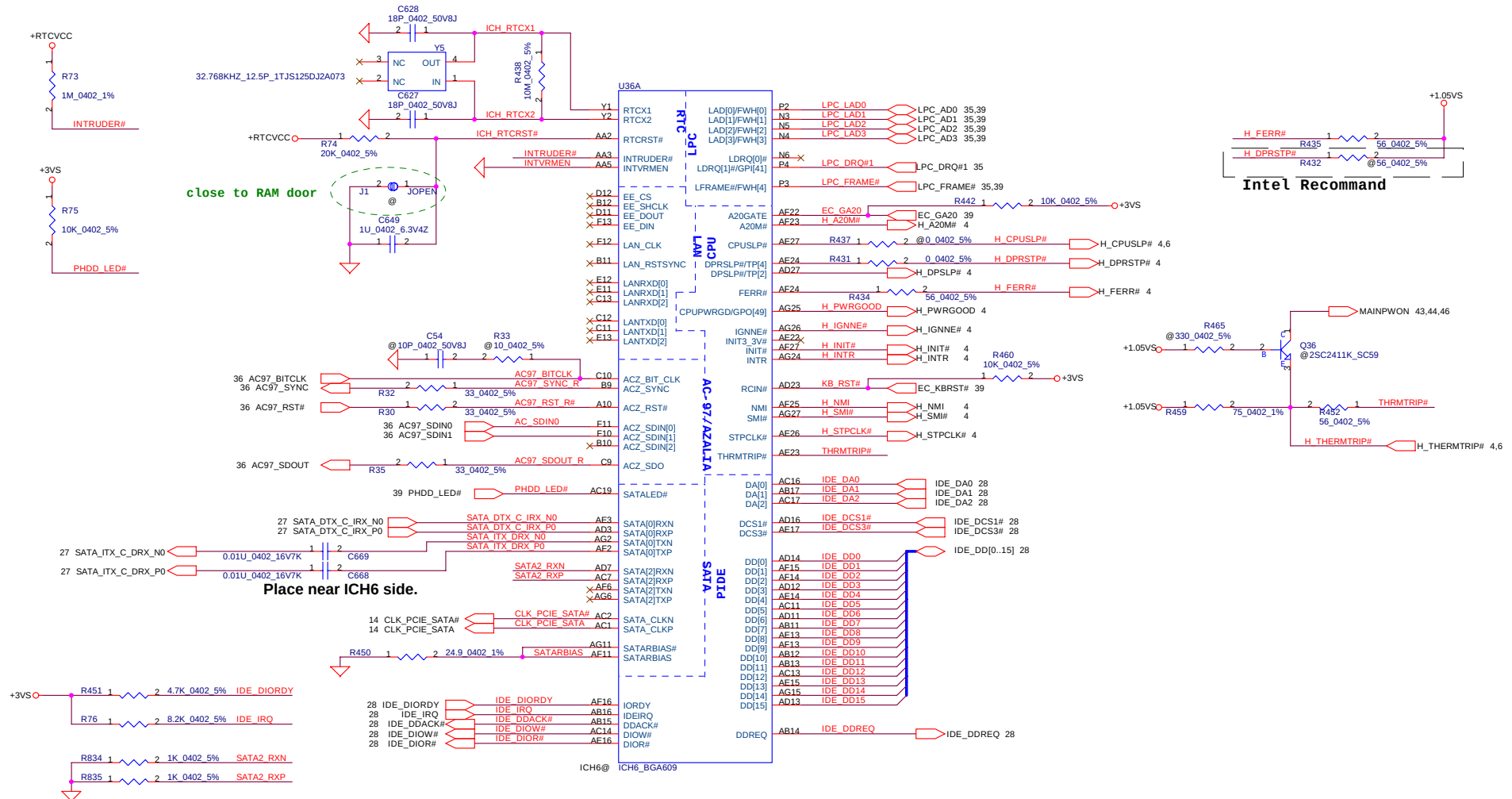


Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date		Deciphered Date		Title	
2005/03/01		2006/03/01		CRT & TV-OUT Connector	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.		Size		Document Number	
		EAL30 LA-2691		Rev 1.0	
Date		星期三, 三月 03, 2005		Sheet 22 of 52	



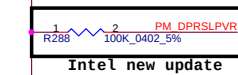
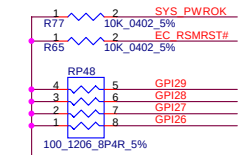
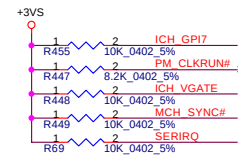
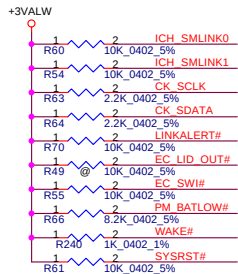
ICH6-M
(R3:SA828010890)
(R1:SA8280108B0)

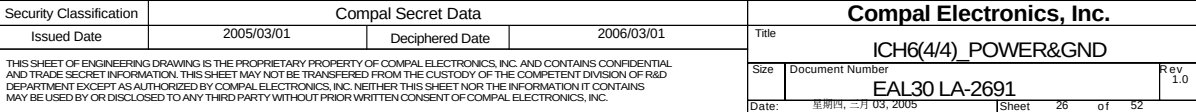
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number
				Date	Rev
				星期二, 二月 03, 2005	1.0
				Sheet	23 of 52



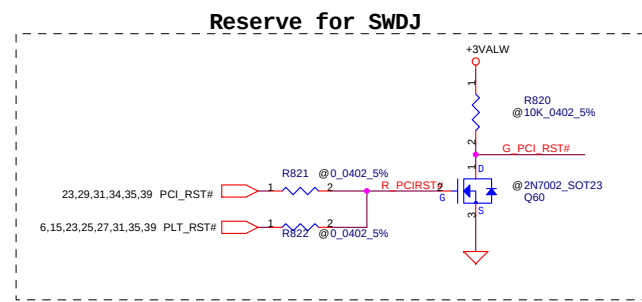
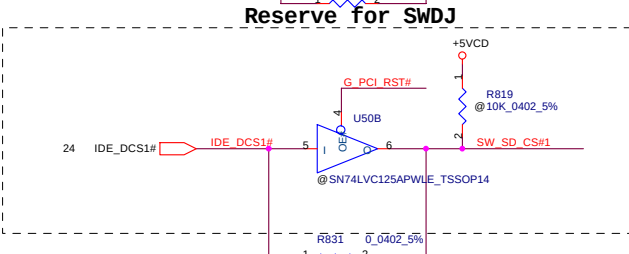
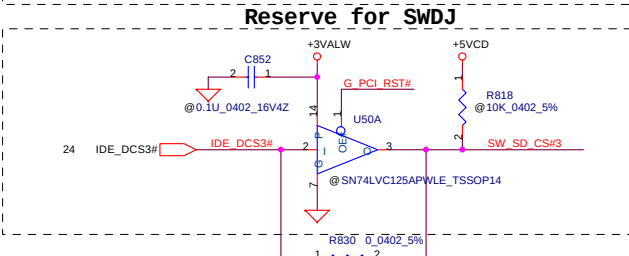
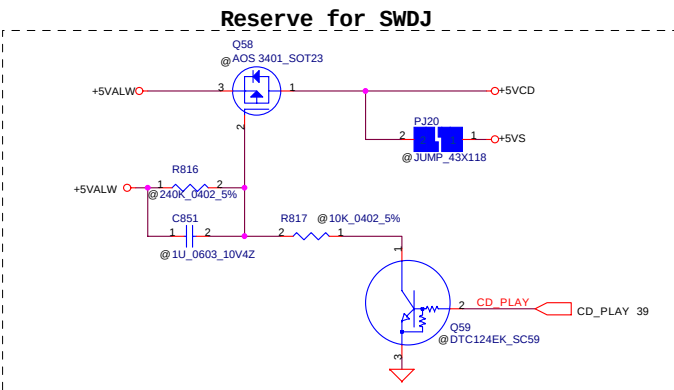
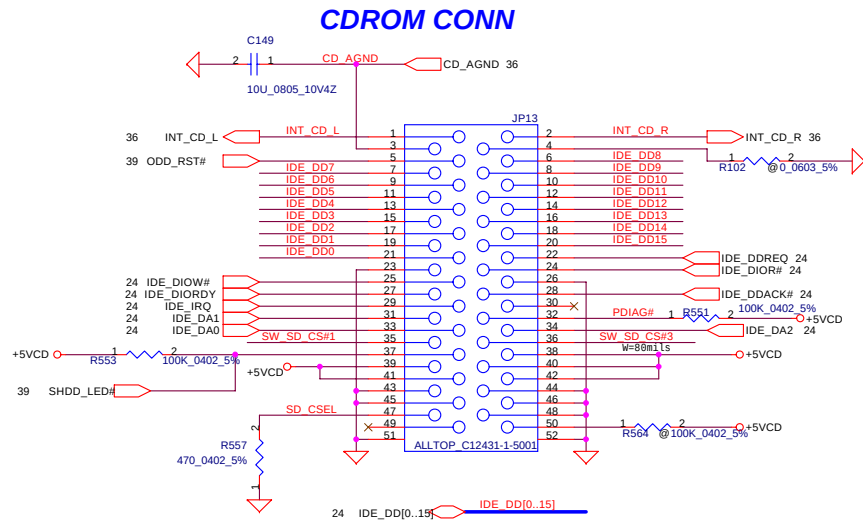
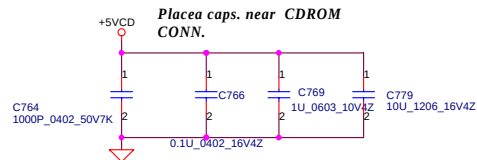
Security Classification				Compal Secret Data				Compal Electronics, Inc.			
Issued Date		2005/03/01		Deciphered Date		2006/03/01		Title			
								ICH6(2/4)_CPU,AC97,IDE,LPC			
								Size		Document Number	
										EAL30 LA-2691	
										Rev 1.0	
								Date		星期四, 三月 03, 2005	
										Sheet 24 of 52	

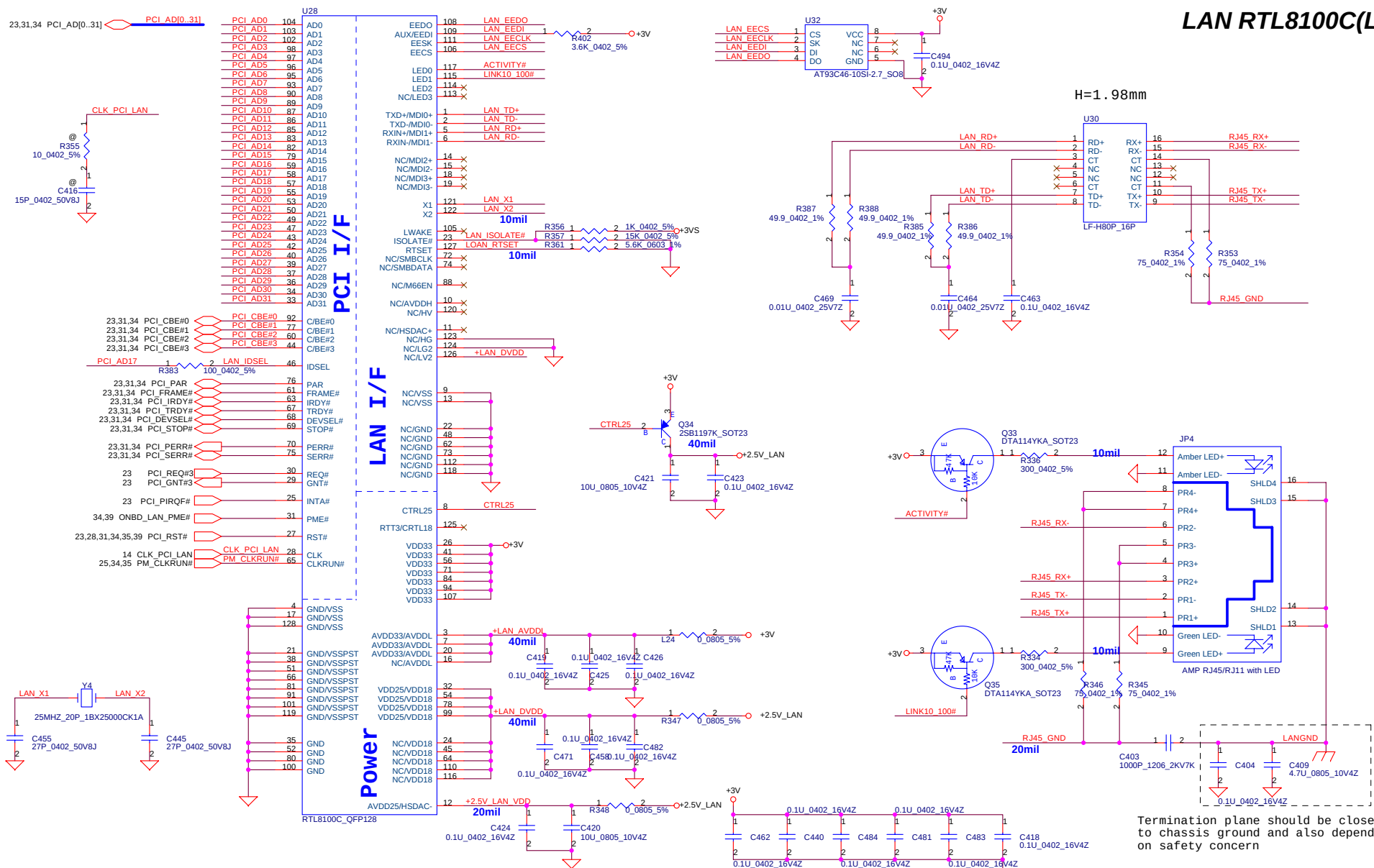
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.









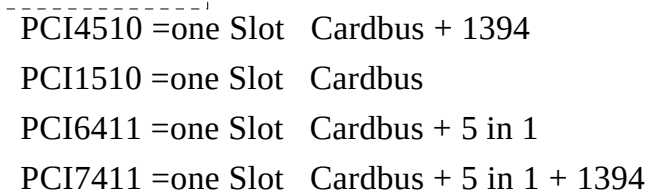


LAN RTL8100C(L)

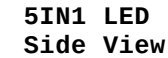
H=1.98mm

Termination plane should be closed to chassis ground and also depends on safety concern

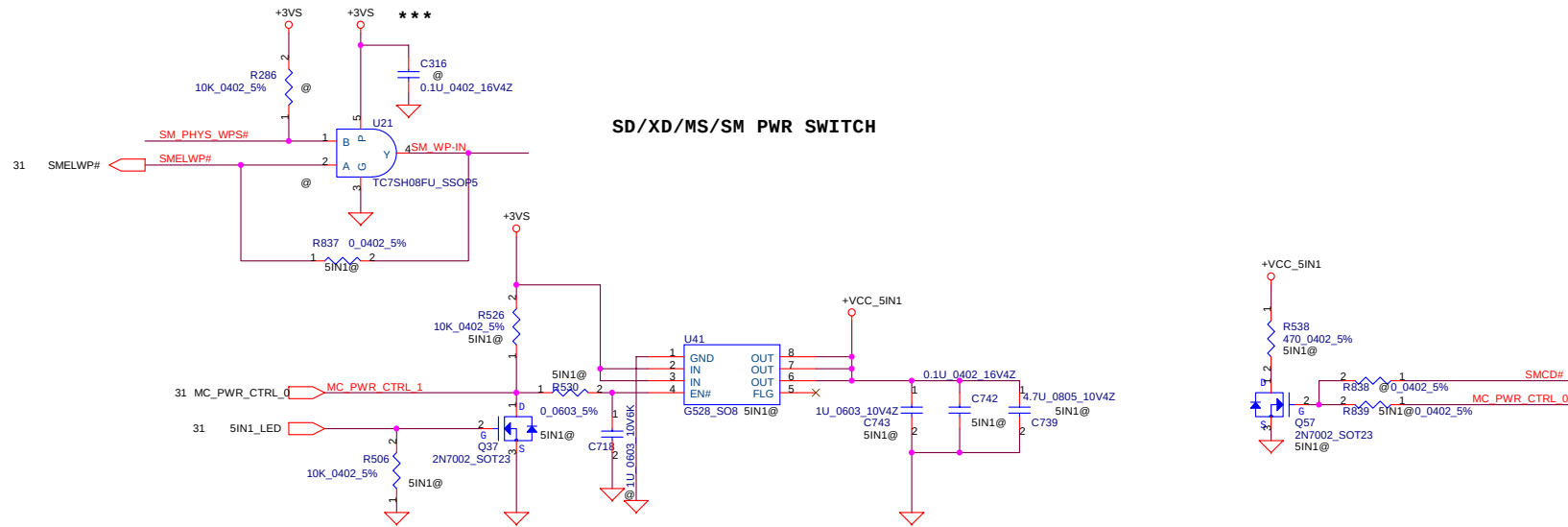
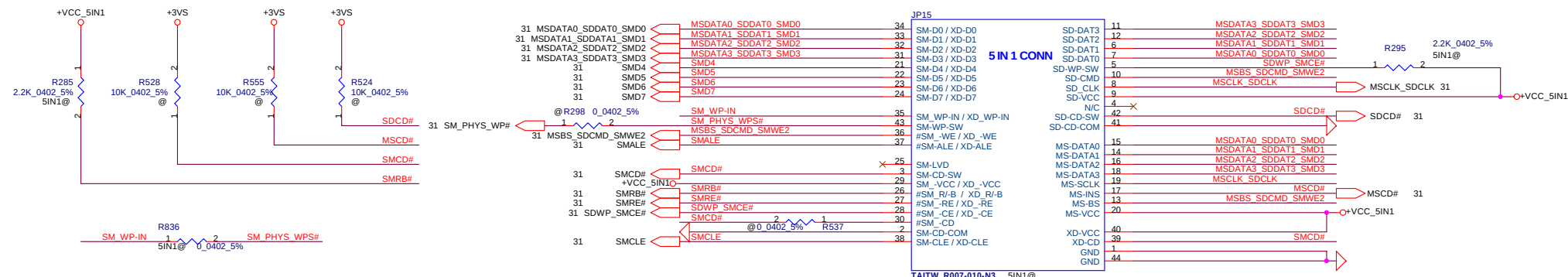
Security Classification			Compal Secret Data		Compal Electronics, Inc.	
Issued Date		2005/03/01	Deciphered Date		2006/03/01	Title
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				LAN RTL8100CL		Size
				Document Number		Custom
				EAL30 LA-2691		Rev 1.0
				Date: 星期三, 三月 03, 2005		Sheet 29 of 52



Date:	星期四, 三月 03, 2005	Sheet	30	of	52
-------	------------------	-------	----	----	----

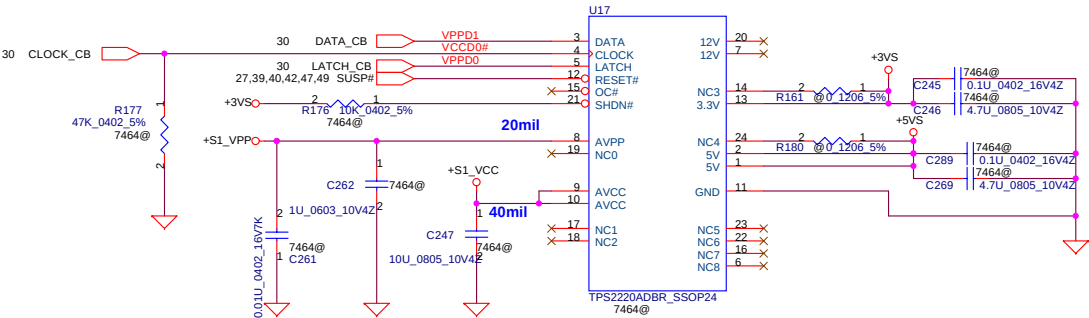


Security Classification	Compal Secret Data			Compal Electronics, Inc.				
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title				
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				PCI7411-2				
				Size	Document Number	Rev		
				Custom	EAL30 LA-2691	1.0		
Date:				星期四, 三月 03, 2005	Sheet	31	of	52

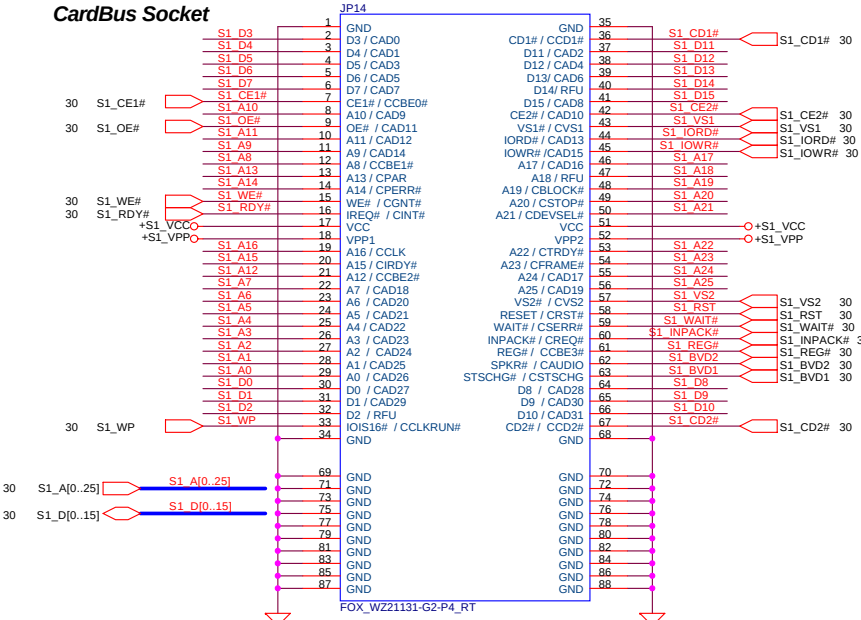


Power Switch for PCMCIA

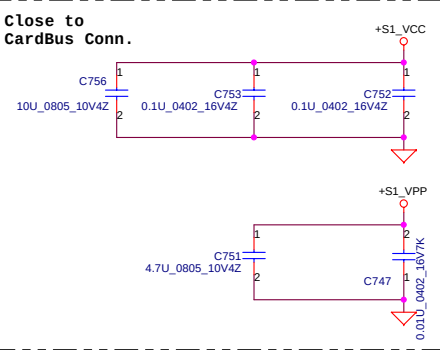
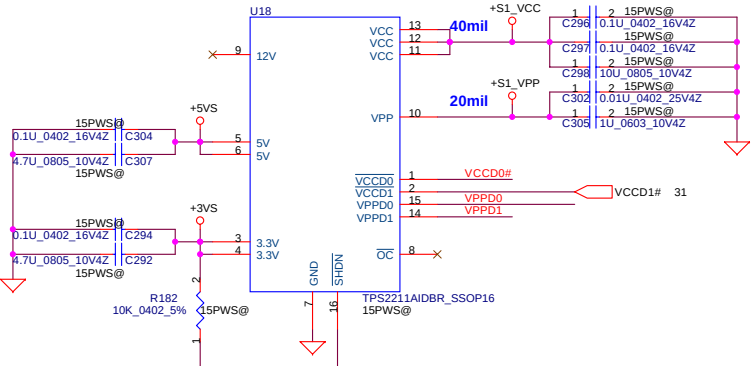
Power Switch for PCMCIA (PCI7411 & PCI6411 only)



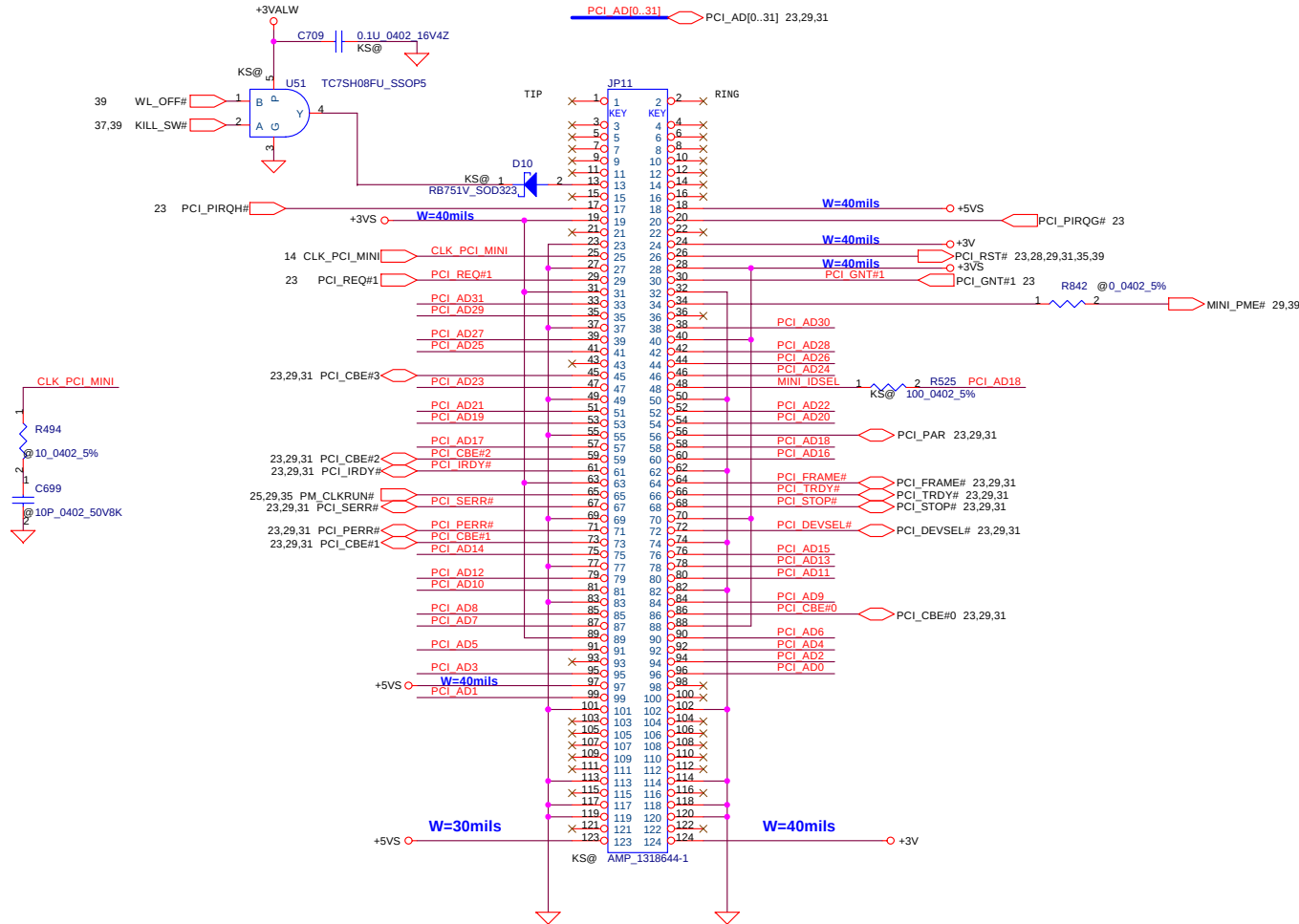
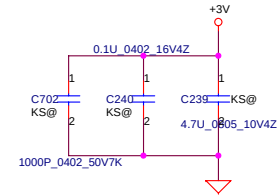
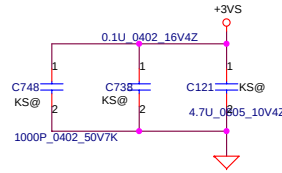
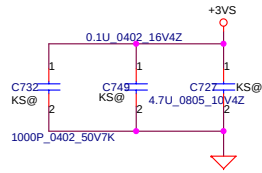
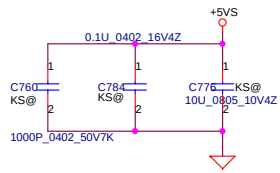
CardBus Socket



Power Switch for PCMCIA (PCI1510 & PCI4510 only)

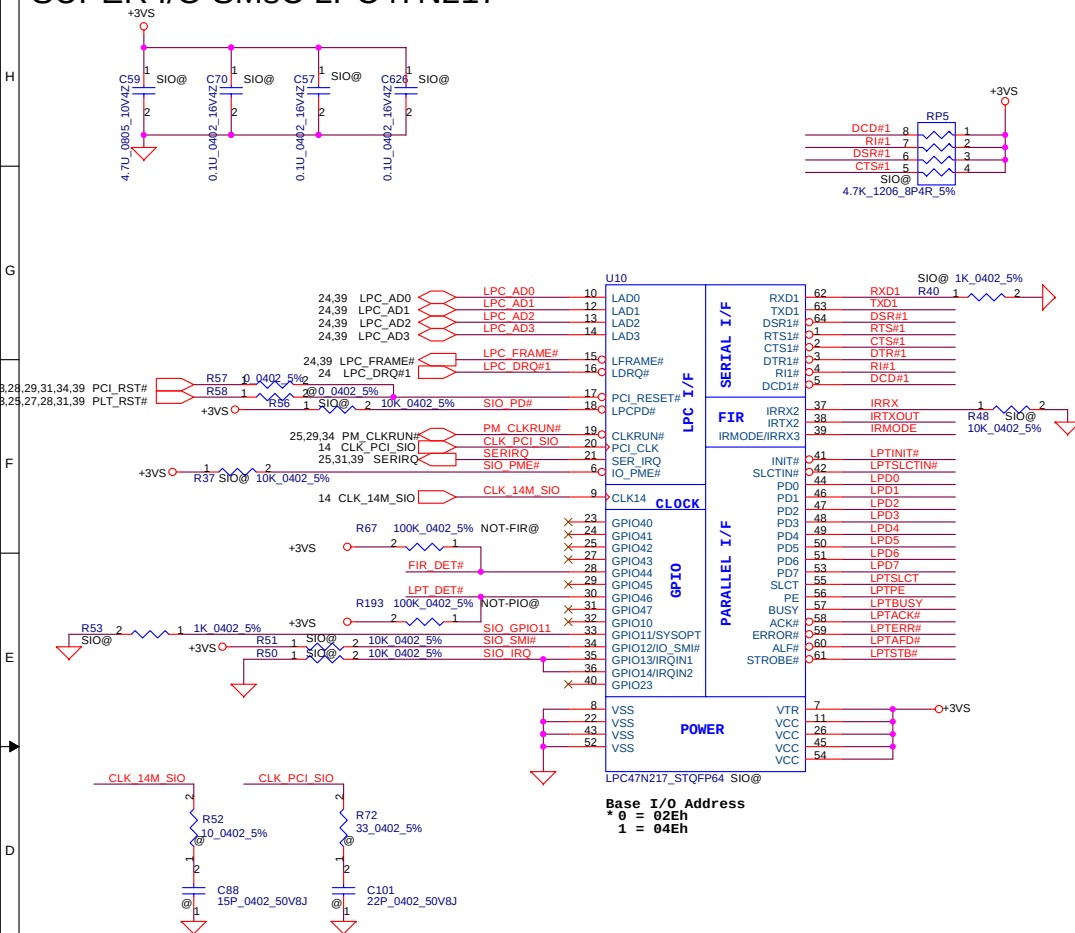


Security Classification	Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				PCMCIA Socket
Size Custom	Document Number	EAL30 LA-2691		Rev 1.0
Date:	星期三, 三月 03, 2005	Sheet	33 of 52	

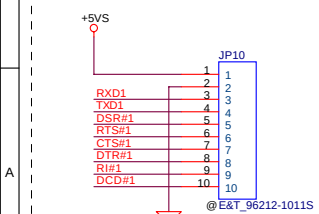


Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Mini PCI Slot	
Size	Document Number			Rev	1.0
Date:	星期五, 三月 04, 2005			Sheet	34 of 52
EAL30 LA-2691					

SUPER I/O SMsC LPC47N217



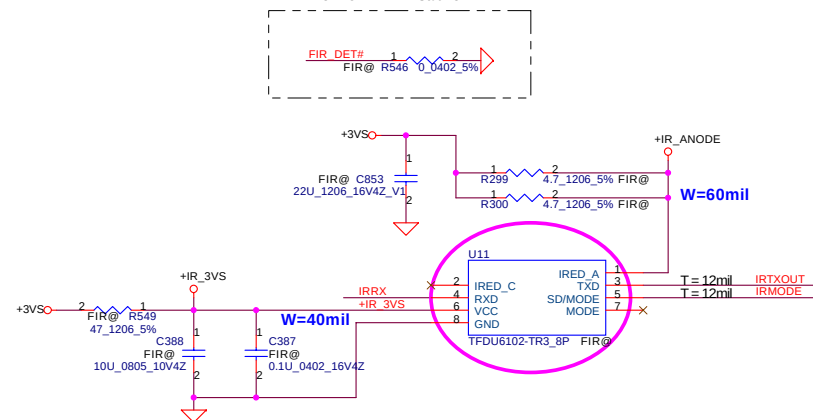
Place on the TOP side(Under MDC conn.)



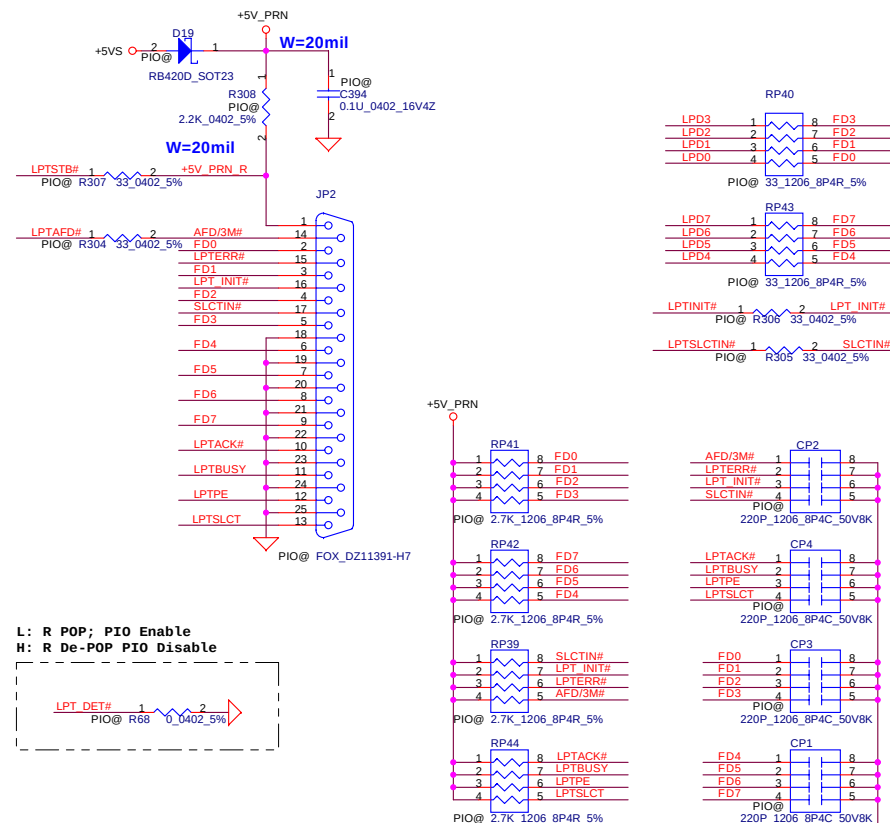
For SW debug use when no serial port

FIR Module

```
L: R POP; FIR Enable
H: R De-POP/FIR Disabl
```



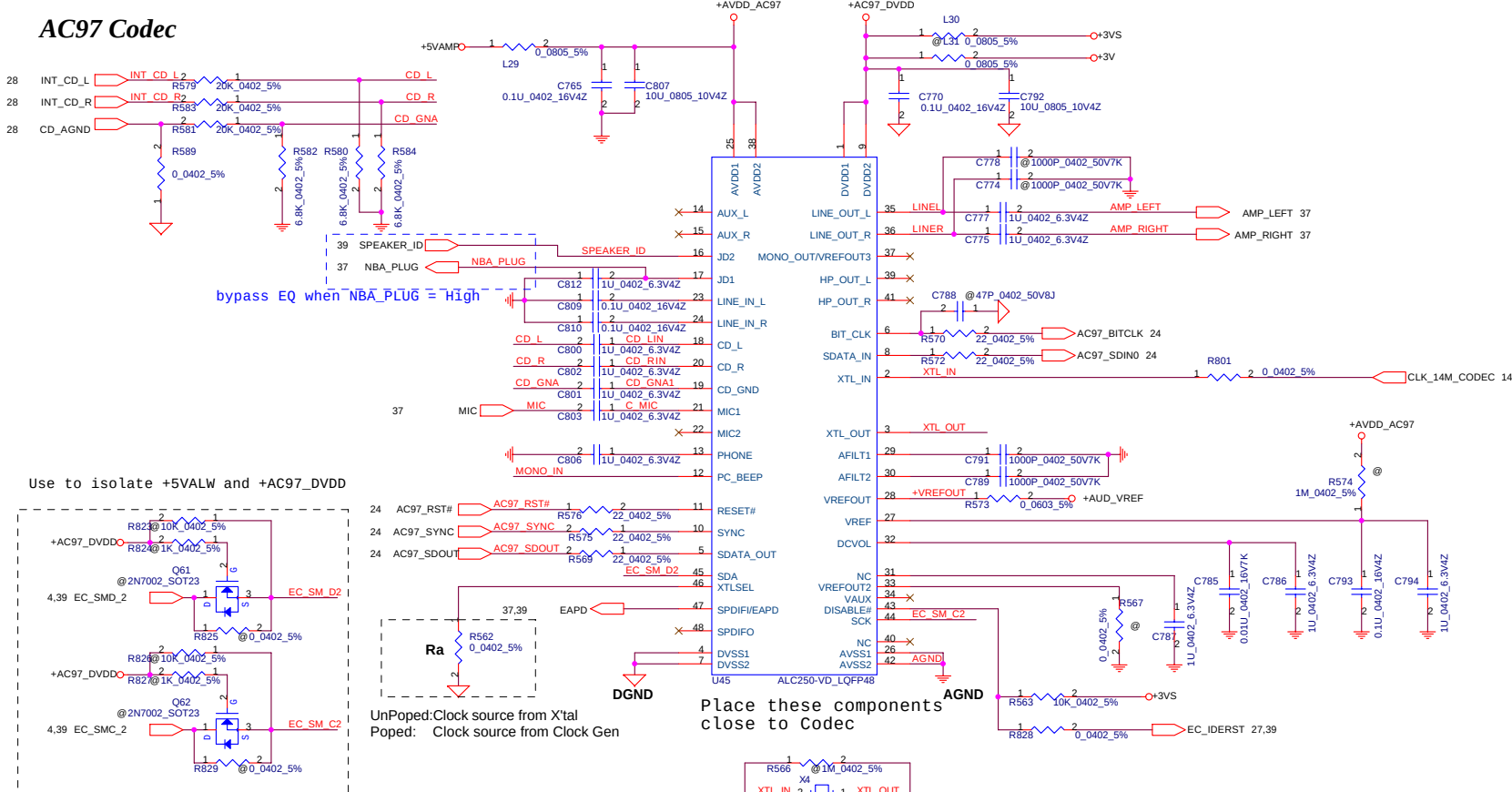
Parallel Port



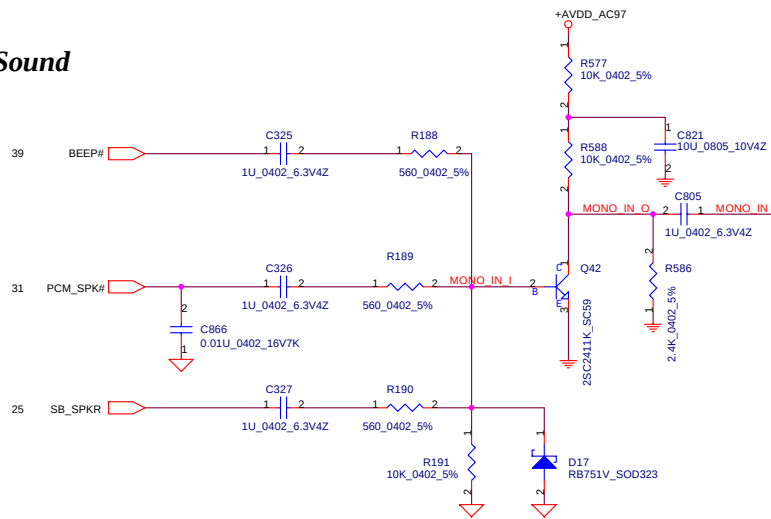
L: R POP; PIO Enable
H: R De-POP PIO Disabl

Security Classification		Compal Secret Data		Compal Electronics, Inc.					
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title					
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				SMSc LAP47N217 SIO,P1O,FIR					
				Size	Document Number			Rev	
				Custm	EAL30 LA-2691			1	
				Date:	星期三, 三月 04, 2005	Sheet	35	of	52

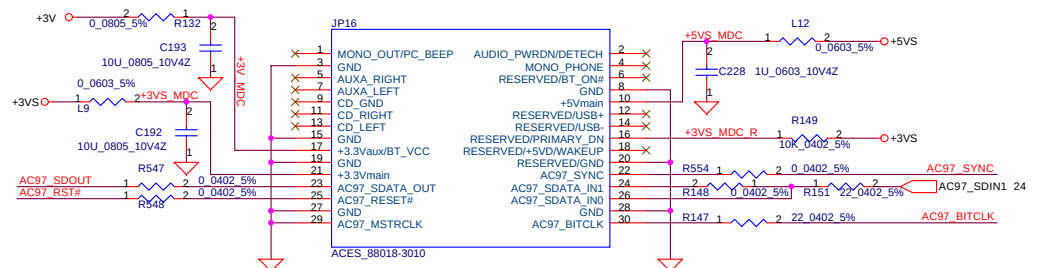
AC97 Codec



System Sound

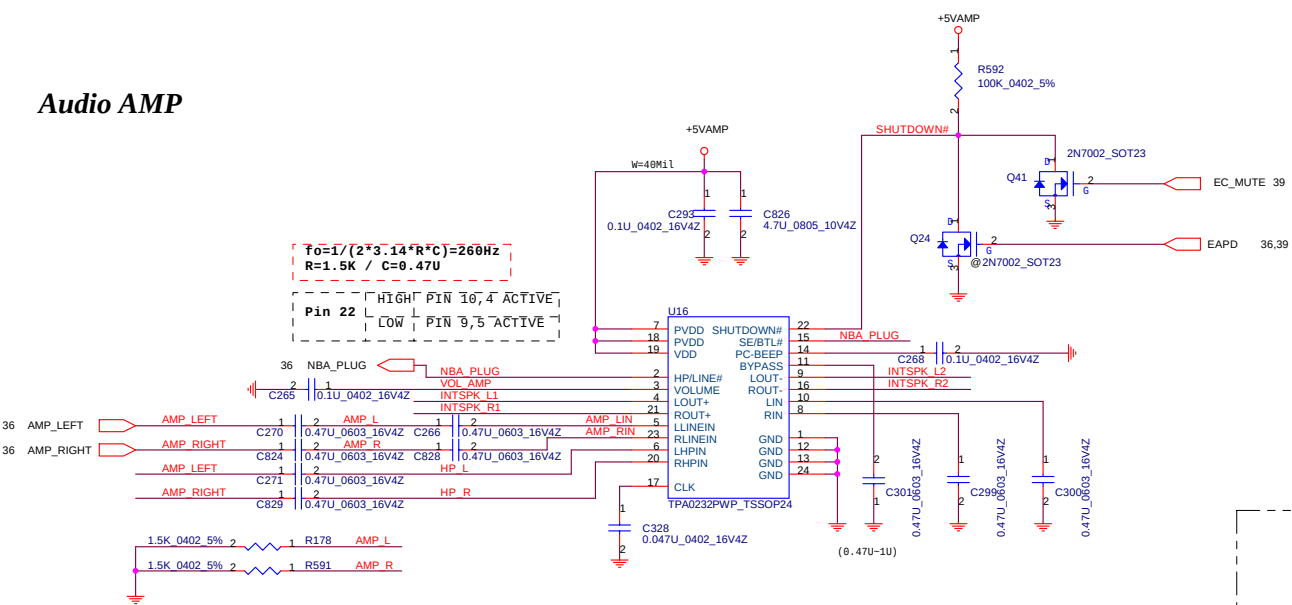


MDC Connector

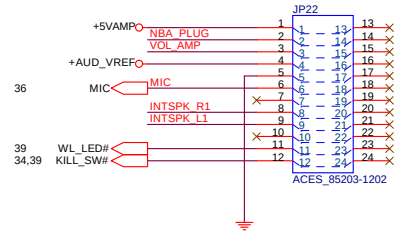


Security Classification		Compal Secret Data		Compal Electronics, Inc.		
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title AC97 CODEC ALC250 Ver.C		
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS SHOULD BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number	Rev
					EAL30 LA-2691	1.0
Date:		星期日, 三月 03, 2005		Sheet 36 of 52		

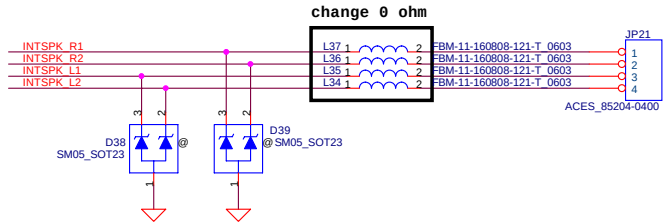
Audio AMP



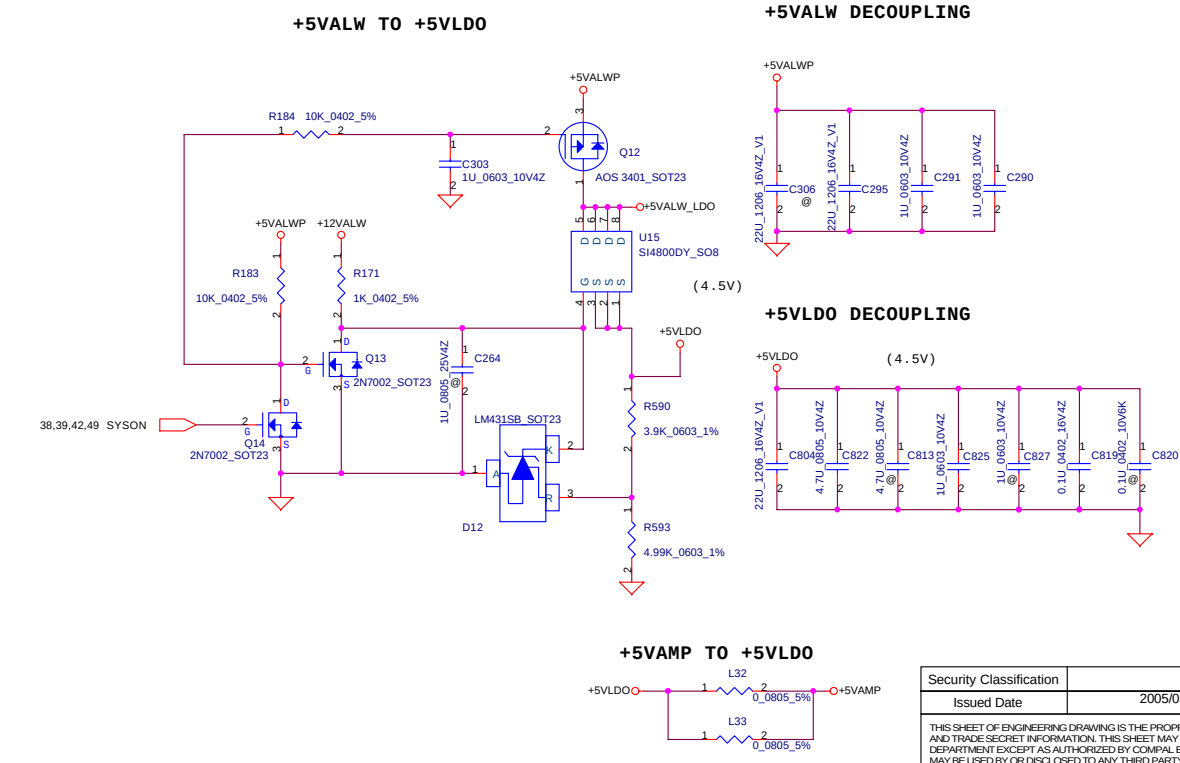
Audio Board Connector



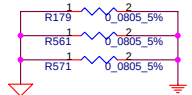
Speaker Connector



Regulator for AMP

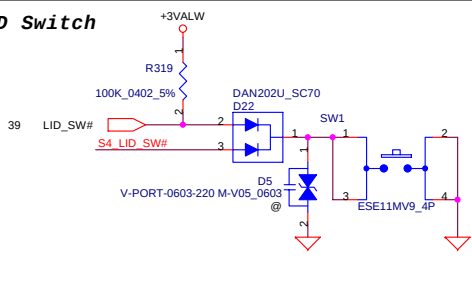


Moat Bridge

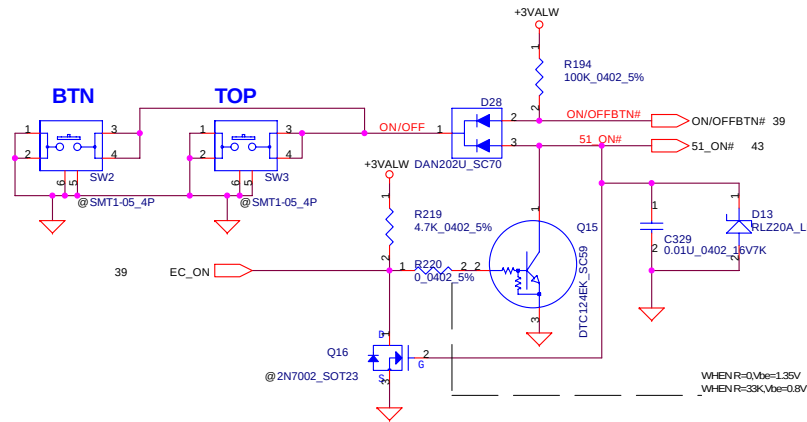


Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				AMP & Audio Jack	
Date	2005/03/01	Sheet	37	of	52

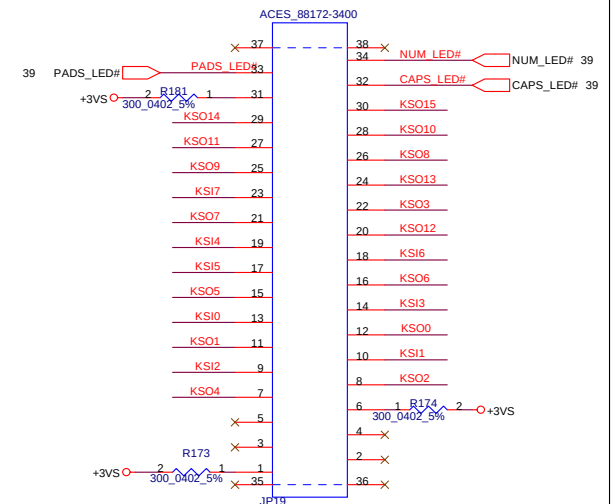
LID Switch



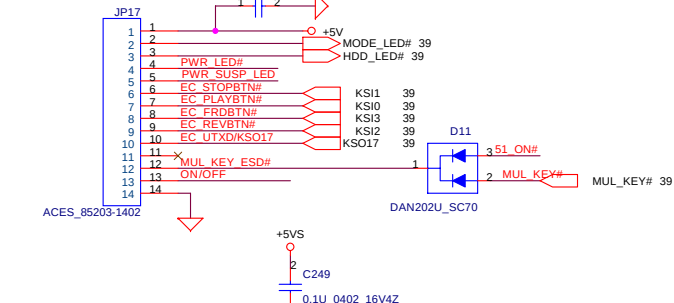
ON/OFF BUTTON for ON/OFF switch



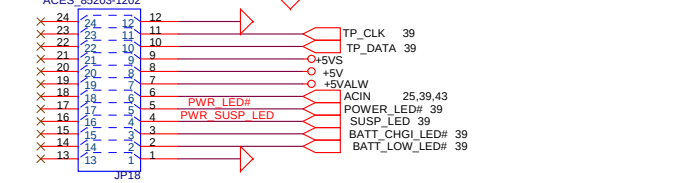
INT_KBD CONN. KEYBOARD CONN.



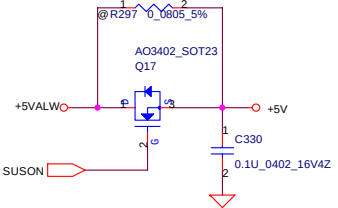
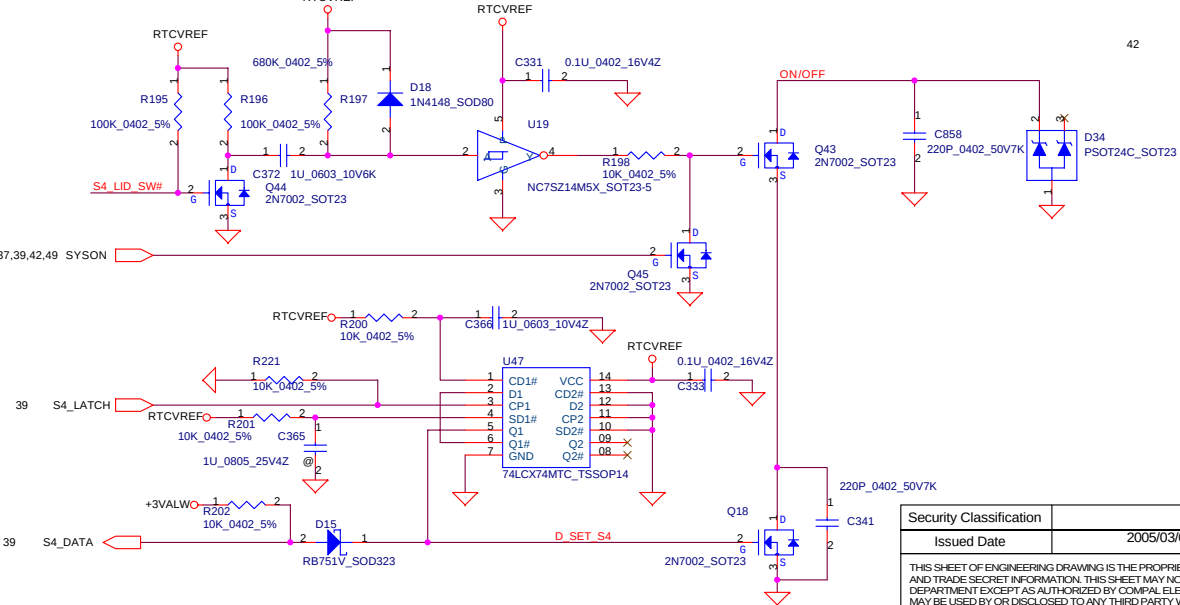
SW/LED Connector



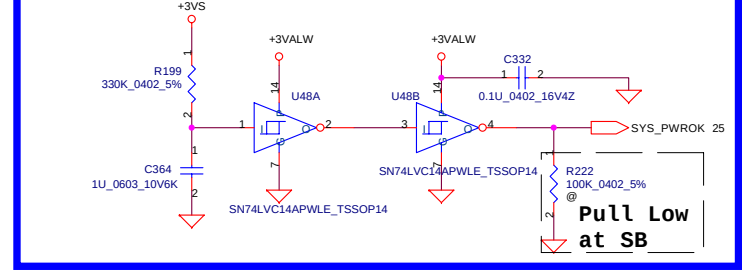
Touch Pad Connector



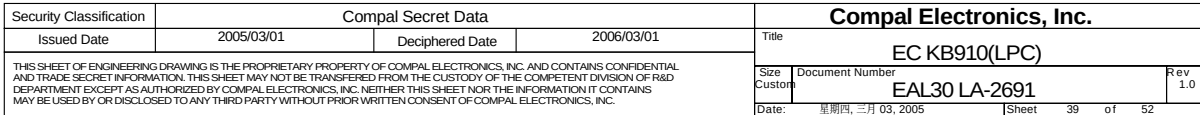
Battery mode Hibernation

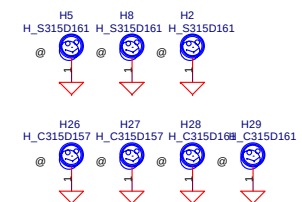
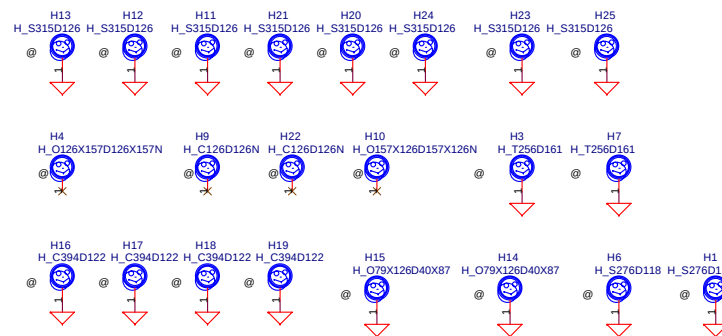
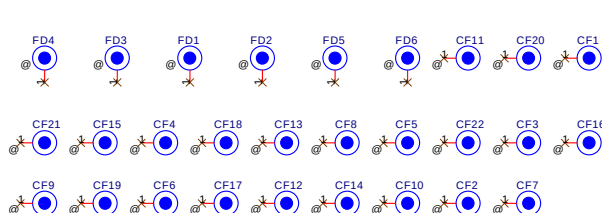
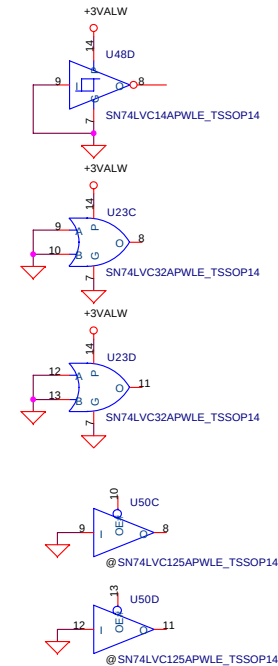
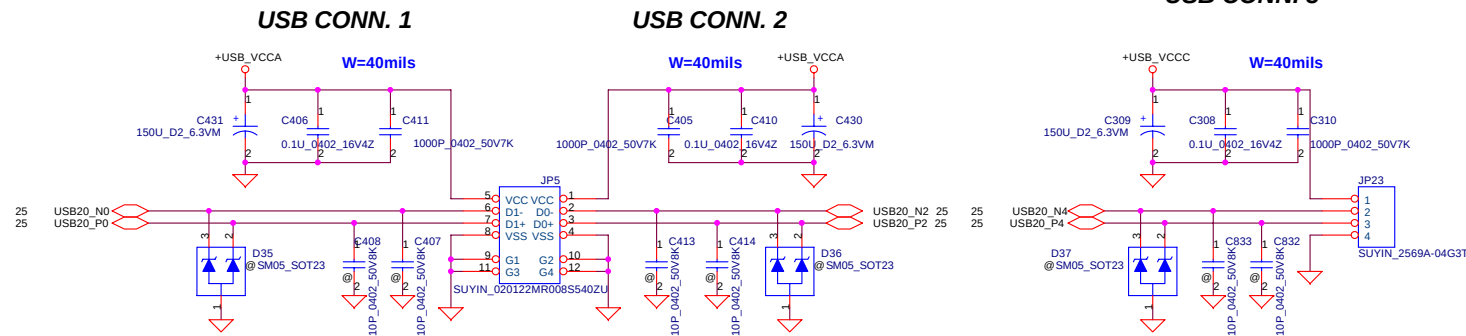
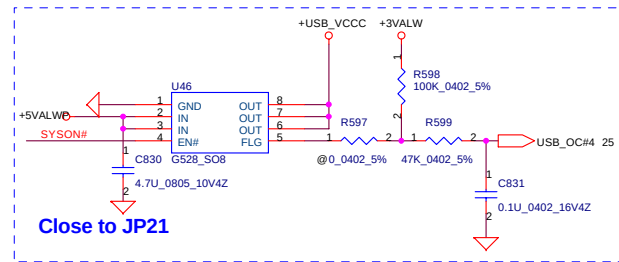
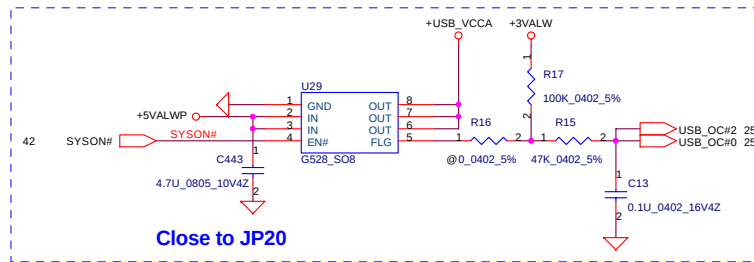


Power OK Circuit



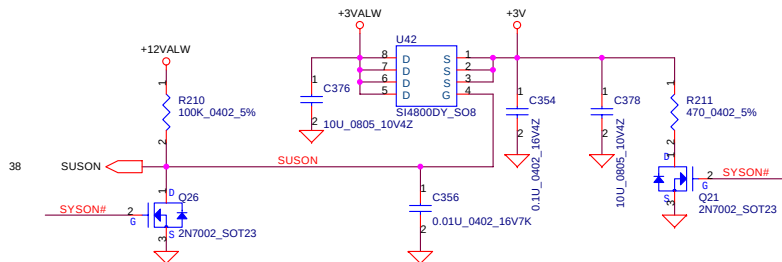
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title	S4R,LID,PIO,SYS CONN
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number
				EAL30 LA-2691	
				Date:	Rev 1.0
				Sheet	38 of 52



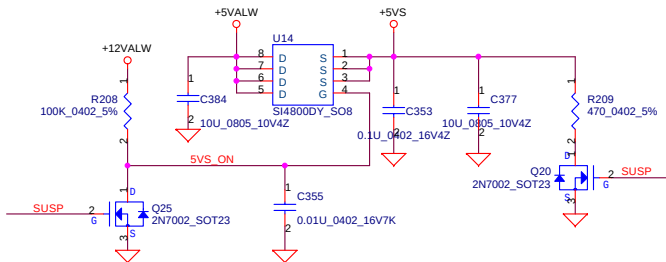


Security Classification	Compal Secret Data			Compal Electronics, Inc.	
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title	BIOS/ML-SW/Screw Hole/USB
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number
				EAL30 LA-2691	
				Date:	Rev
				星期四, 三月 03, 2005	1.0
				Sheet	41 of 52

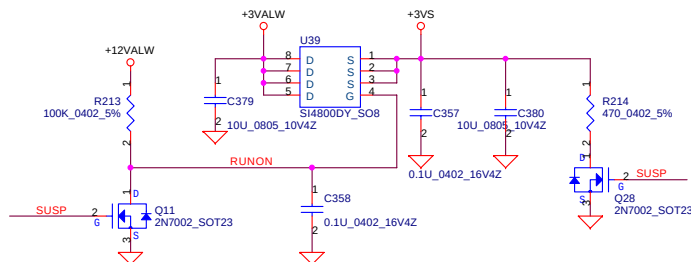
+3VALW to +3V Transfer



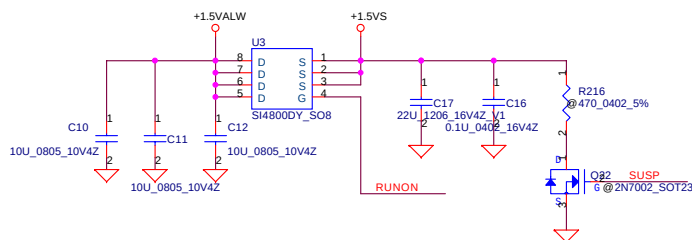
+5VALW to +5VS Transfer



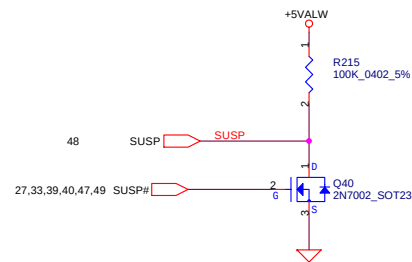
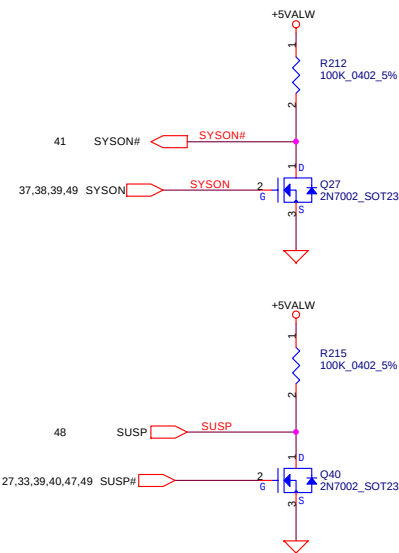
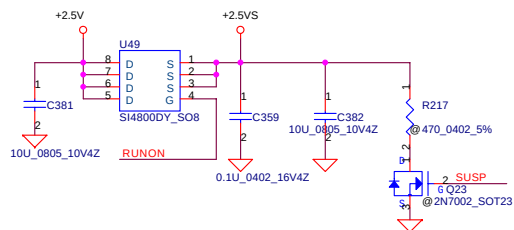
+3VALW to +3VS Transfer



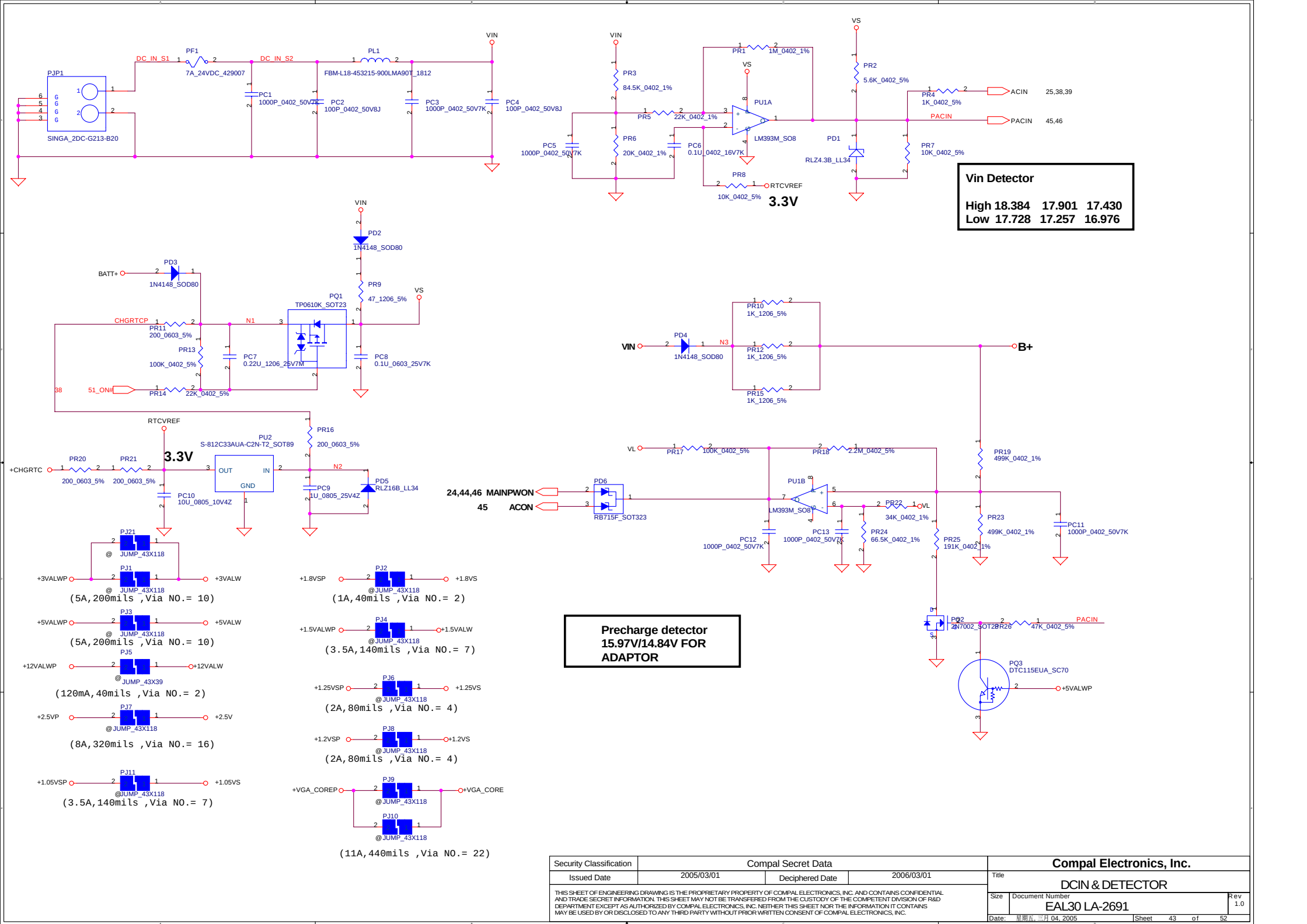
+1.5VALW to +1.5VS Transfer



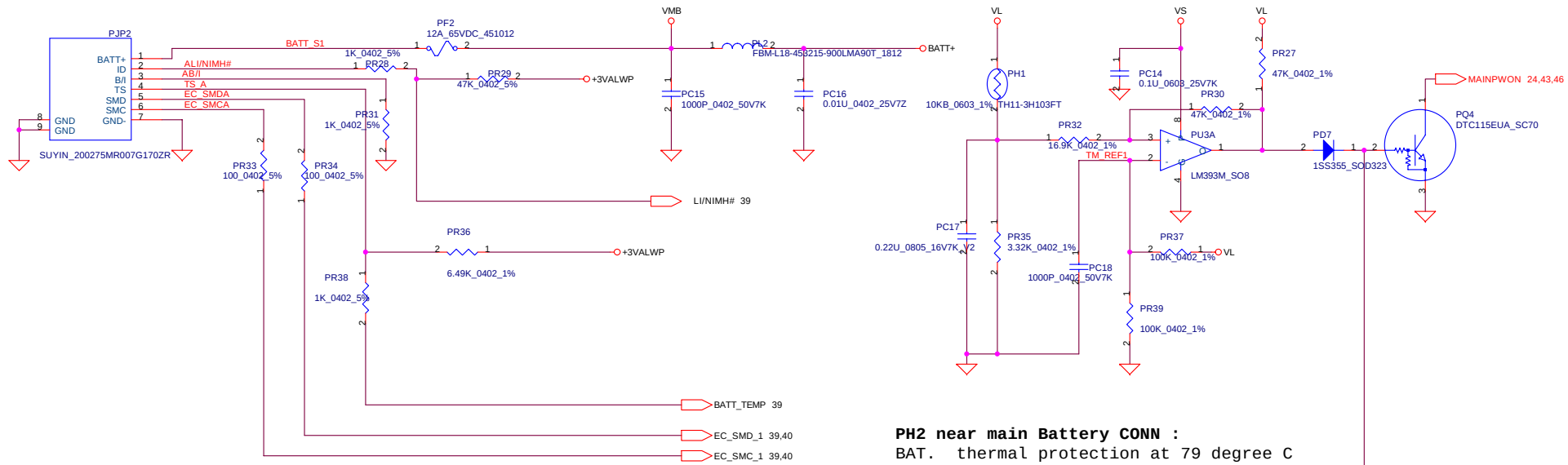
+2.5V to +2.5VS Transfer



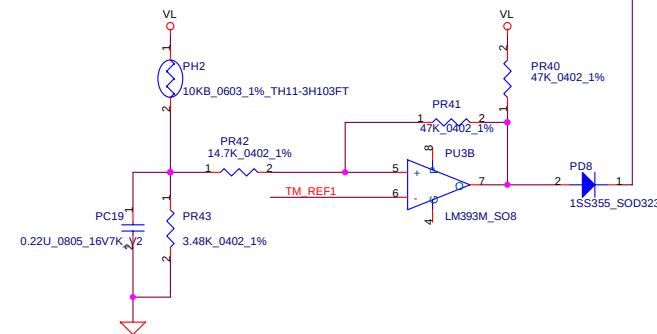
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number
				Date	Rev
				星期四, 三月 03, 2005	1.0
				Sheet	42 of 52



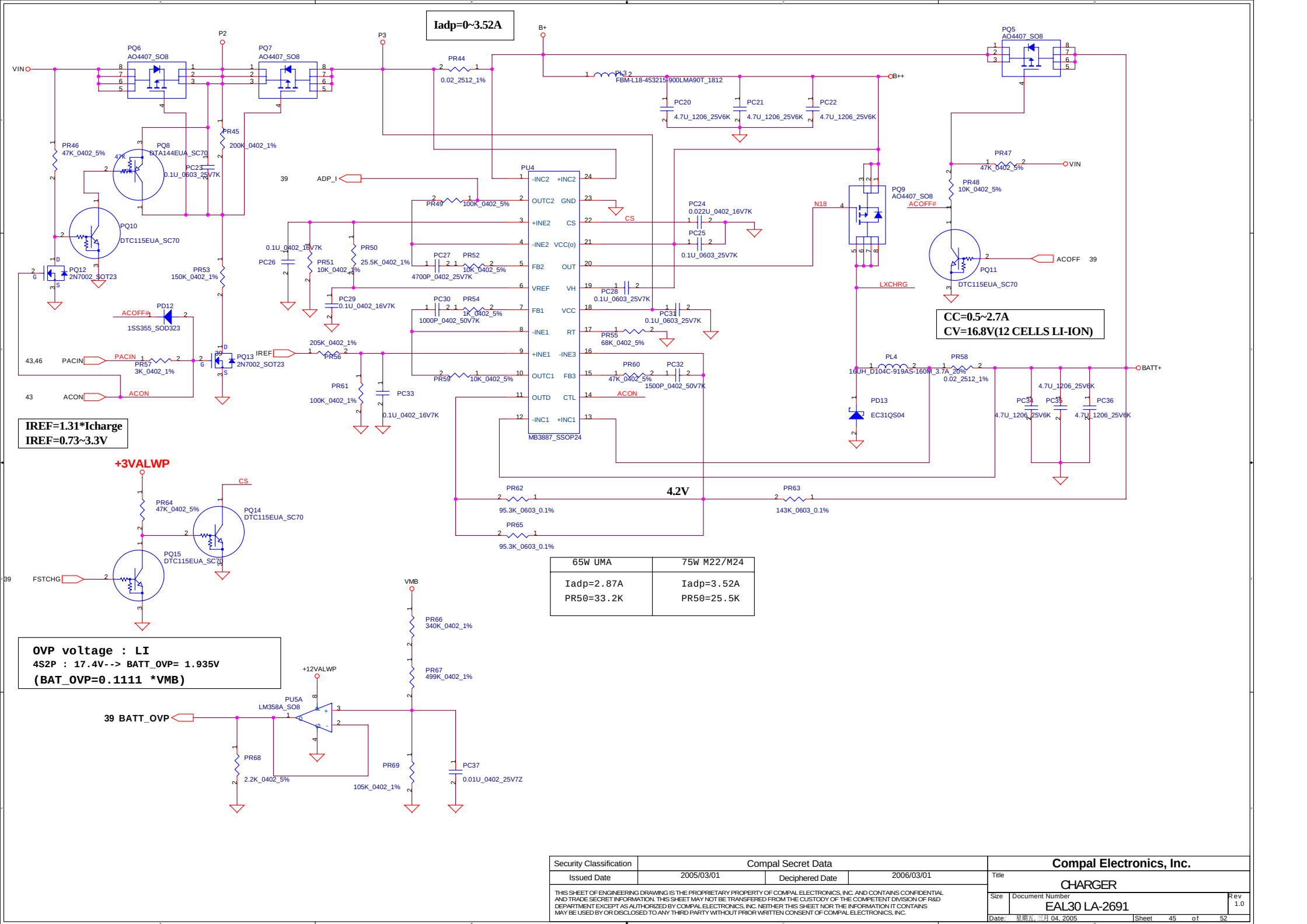
PH1 under CPU botten side :
CPU thermal protection at 84 degree C
Recovery at 45 degree C

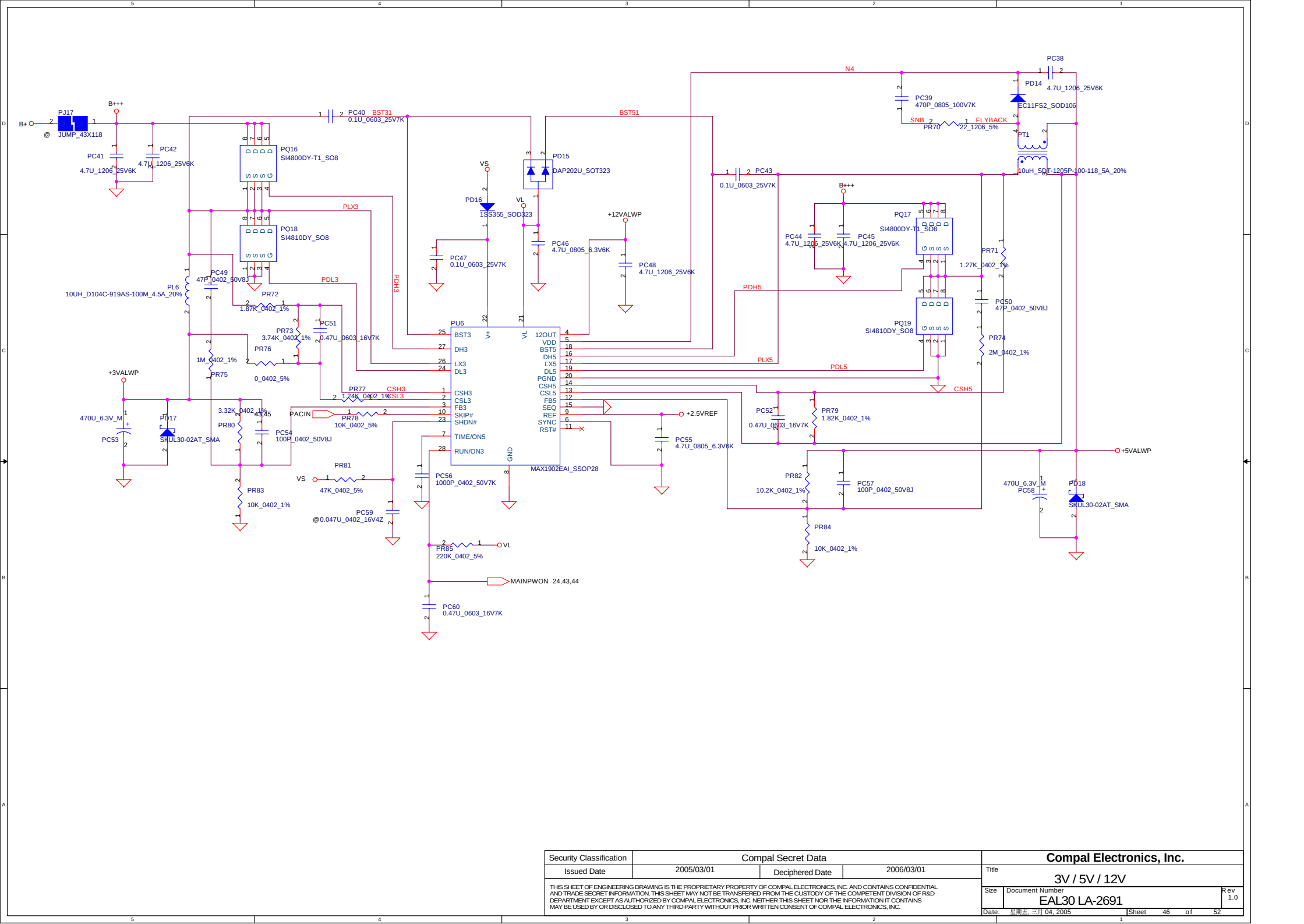


PH2 near main Battery CONN :
BAT. thermal protection at 79 degree C
Recovery at 45 degree C



Security Classification		Compal Secret Data		Compal Electronics, Inc.			
Issued Date	2005/03/01	Deciphered Date	2006/03/01	BATTERY CONN / OTP			
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Title			
				Size	Document Number	Rev	
					EAL30 LA-2691	1.0	
				Date:	星期五, 三月 04, 2005	Sheet	44 of 52





Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				3V / 5V / 12V	
Size		Document Number			Rev
		EAL30 LA-2691			1.0
Date		星期五, 三月 04, 2005		Sheet	46 of 52

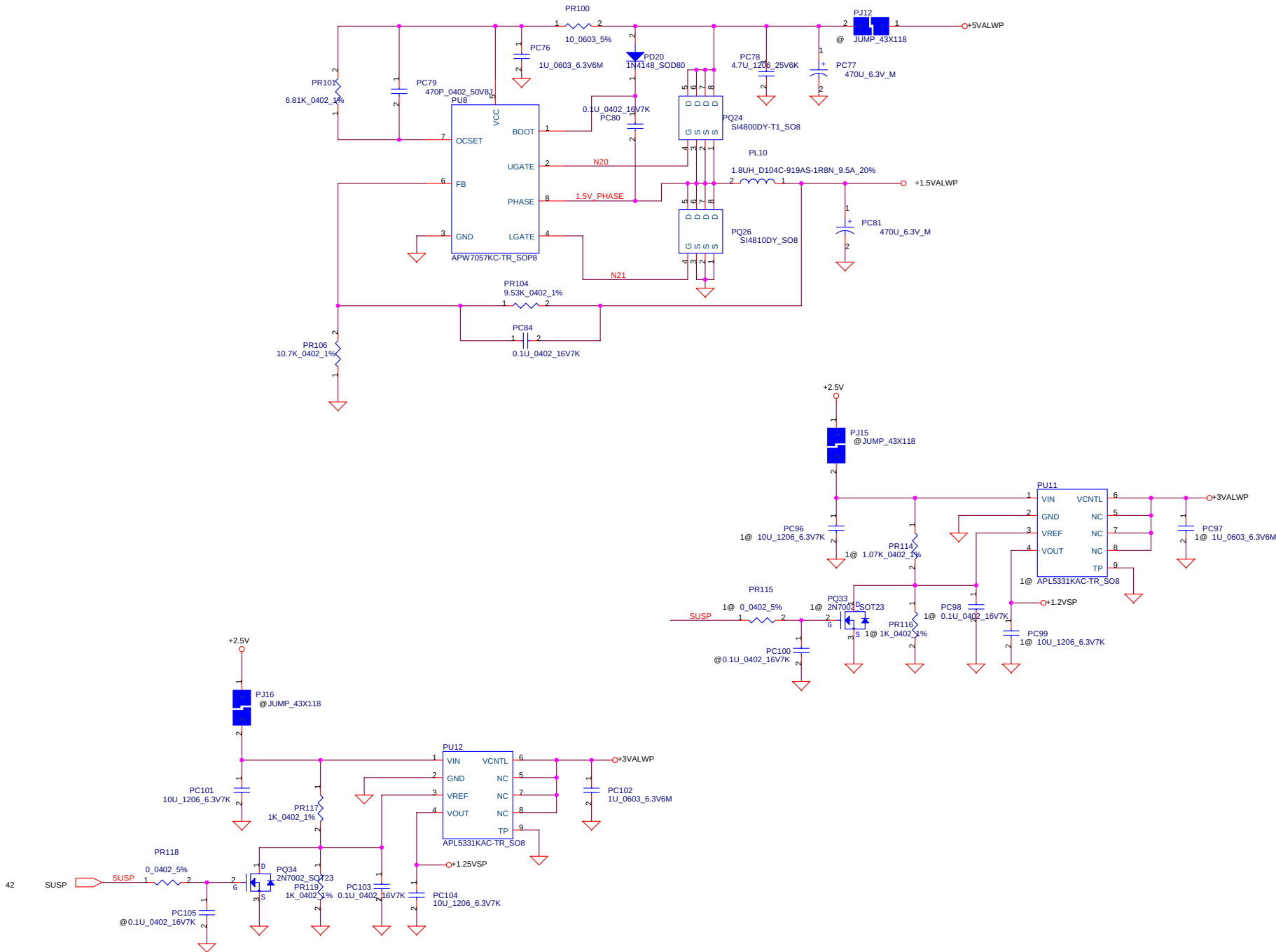
+1.8V

+1.2V/+1.0V

with selector	without selector fix 1.2V
PR105=10K	unpop PR105
PR96=20K	PR96=6.49K

15 POWER_SEL
Low: 1.2V
High: 1.0V

Security Classification		Compal Secret Data				Compal Electronics, Inc.					
Issued Date		2005/03/01		Deciphered Date		2006/03/01		Title			
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.								1.8V / VGA_CORE			
								Size	Document Number	Rev	
								EAL30 LA-2691			
Date:		星期四, 三月 04, 2005				Sheet		47	of 52		

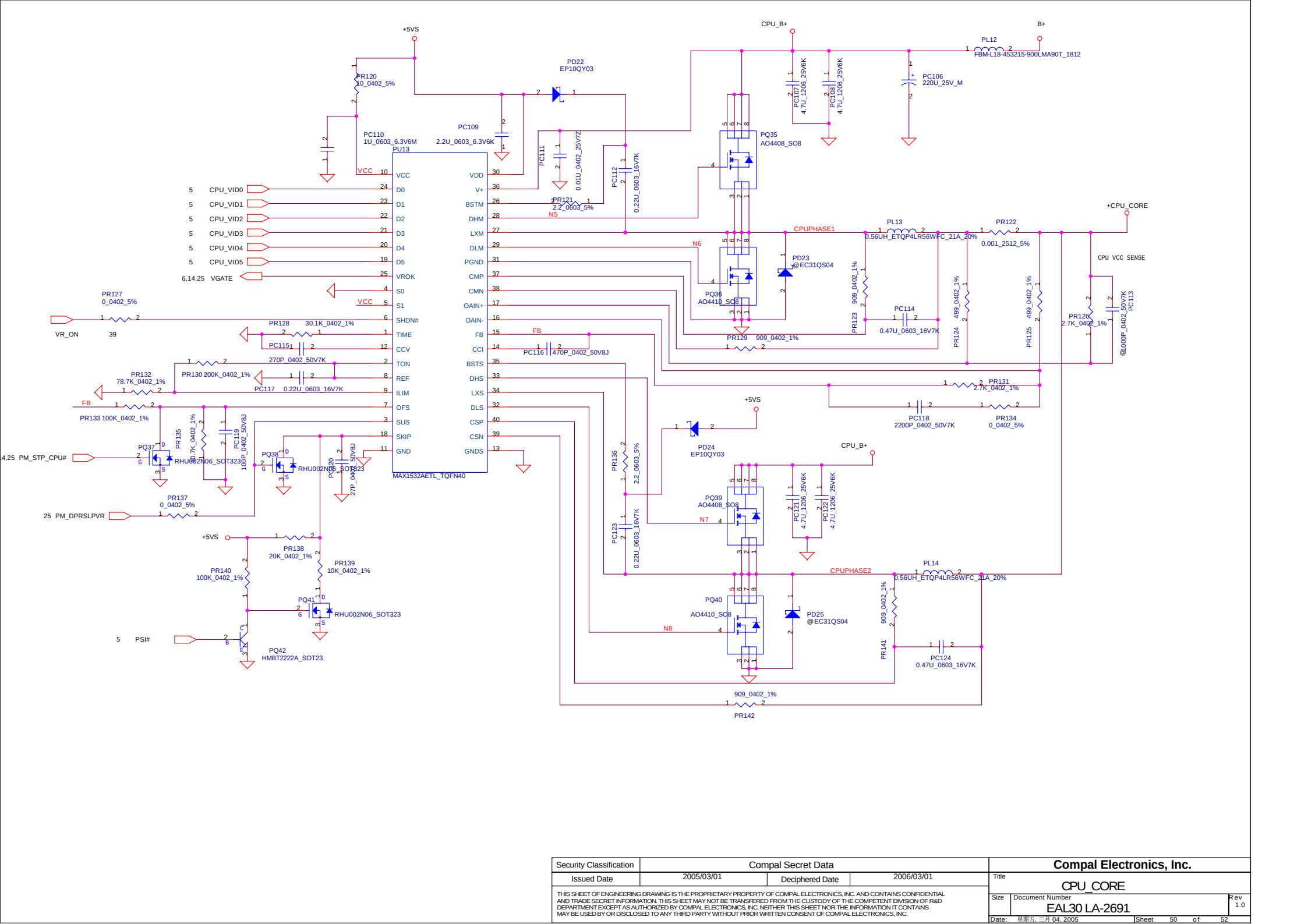


Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				1.5V / 1.25V / 1.2V	
Size	Document Number			Rev	
	EAL30 LA-2691			1.0	
Date: 星期五, 三月 04, 2005		Sheet 48 of 52			

+1.05V

+2.5V

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				2.5V / 1.05V	
Size		Document Number			Rev
		EAL30 LA-2691			1.0
Date: 星期五, 三月 04, 2005		Sheet 49 of 52			



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2005/03/01	Deciphered Date	2006/03/01	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				CPU_CORE	
				Size	Document Number
				EAL30 LA-2691	
Date: 2005年 三月 04, 2005		Sheet 50 of 52		Rev 1.0	

				5	4	3	2	1	
REV 0.2				D					
Date	Page	Location	Description						
12/06	P.38	Add ESD diode D34	for ESD protection						
12/06	P.37	Delete C267	For sound volume change slow issue						
12/06	P.32	ADD C854	To solve PCI 4510 1394 issue						
12/06	P.21	Change L4,L5 to FBM-L11-201209-121LMT	To solve EMI issue						
12/26	P.22	Change C398,C397 from 270P to 100P C401,C402 from 330P to 100P	For customer request						
12/26	P.22	Change R320,R321,R7,R8,R9 from 150_0402_5% to 150_0402_1%	For customer request						
12/26	P.07	Change R124,R127,R119,R531,R532 from 150_0402_5% to 150_0402_1%	For customer request						
12/26	P.15	Change R273,R274,R267,R270,R271 from 150_0402_5% to 150_0402_1%	For customer request						
12/26	P.32	Change 5in1 SMWP design ,Add R836,R837	follow EAT10 design	C					
REV 0.3									
Date	Page	Location	Description						
2/06	P.09	Change R160 size to 0805 0 ohm	Add rating current						
2/06	P.24	Add C859,C864 change R841 to 2.2 ohm	For TV-out wave issue						
2/06	P.32	Add R838,R839	Change 5in1 card reader discharge control from card detect to card power enable .	B					
2/06	P.27	Reserve R840,C862,X5	Reserve for chip issue						
REV 1.0									
Date	Page	Location	Description						
2/14	P.34	ADD R842	Reserve for CyberTan issue	A					
2/26	P.36	Add C866	Add for solve modem card noise						
2/26	P.24	Add C865	Add for solve 3Dmark low performace issue						
2/26	P.24	Add R842	Reserve for New Wireless Lan Card						

	S		4		3		2		1
	Page	Location	Description	Reason					
	45	PR50	Change from 33.2K_0402_1% to 25.5K_0402_1%	For ATI M22/M24 sku, update to 75W					
	47	PR96	Change from 20K_0402_1% to 6.49K_0402_1% Unpop PR105,PQ28,PR143,PQ43,PR102,PC83,PC144	Fix POWER_SEL at 1.2V					
D	47	PR98	Change from 90.9K_0402_1% to 71.5K_0402_1%	Enlarge VGA_CORE OCP point					D
	43	PD3	Change from RB751 to 1N4148	For common design					
	43	PR9	Change from 33_1206_5% to 47_1206_5%	For common design					
	48		Delete PC96,PR114,PU11,PC97,PR115,PQ33,PR116, PC98,PC99	For UMA SKU, delete 1.2VS					
C	48	PR104 PR106	Change PR104 from 9.09K_0402_1% to 9.53K_0402_1% Change PR106 from 10.5K_0402_1% to 10.7K_0402_1%	For HW requirement to raise 1.5V voltage					
B									B
A									A
					Security Classification				
					Compal Secret Data				
					Compal Electronics, Inc.				
					Title				
					POWER PIR				
					Size				
					Document Number				
					EAL30 LA-2691				
					Rev				
					1.0				
					Date:				
					星期五, 三月 04, 2005				
					Sheet				
					52 of 52				
					THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				

s-manuals.com