

UNCONTROLLED DOCUMENT

## SCHEMATICS VERSION LIST

VERSION	ISSUE DATE	REMARK
0.00		FIRST PREVIEW
0.01		
0.02		

## Power Management table

Signal	+3VALM	+3V	+3VS
	+5VALM	+5V	+5VS
State	+12VALM	+2.5V	+1.2VP +CPU_CORE +1.25VS
S0	ON	ON	ON
S1	ON	ON	ON
S3	ON	ON	OFF
S5 S4/AC	ON	OFF	OFF
S5 S4/AC don't exist	OFF	OFF	OFF

	PCB Rev	CHIPS Rev
S0T-Build	0.1	
PT-Build		
ST-Build		
QT-Build		

## Ceramic Capacitor Spec Guide:

## Temperature Characteristics:

Symbol	0	1	2	3	4	5	6	7
CODE	Z5U	Z5V	Z5P	Y5U	Y5V	Y5P	X5R	X7R

B	D	A	B	C	D	E	F	G
NP0	COG		BJ	CM	CJ	CK	SH	SJ

H	I	J	
UJ	UK	SL	

## Tolerance:

Symbol	A	B	C	D	F	G	H	J
CODE	+/-0.05PF	+/-0.1PF	+/-0.25PF	+/-0.5PF	+/-1PF	+/-2K	+/-3K	+/-5K

K	M	N	P	Q	V	X	Z	
+/-10K	+/-20K	+/-30K	+/-0.0K	+/-0.10K	+/-0.20K	+/-0.40K	+/-0.80K	+/-20K

## SMBUS Control Table

	SOURCE	INVERTER	BATT	SERIAL REPRON	THERMAL SENSOR (U43)	THERMAL SENSOR (U91)	SOOIMM	CLK CHIP	MINI PCI
SMB_EC_CK1 SMB_EC_DA1	NS 87591	✓	✓	✓ (U101)	✗	✗	✗	✗	✗
SMB_EC_CK2 SMB_EC_DA2	NS 87591	✗	✗	✗	✓	✓	✗	✗	✗
SMB_CLK SMB_DATA	ICH4	✗	✗	✗	✗	✗	✓	✓	✓

NOTE1:

@XX : Depop component

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SCHEMATIC, M/B LA-1591

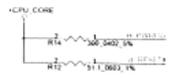
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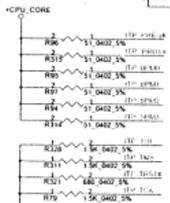
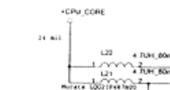
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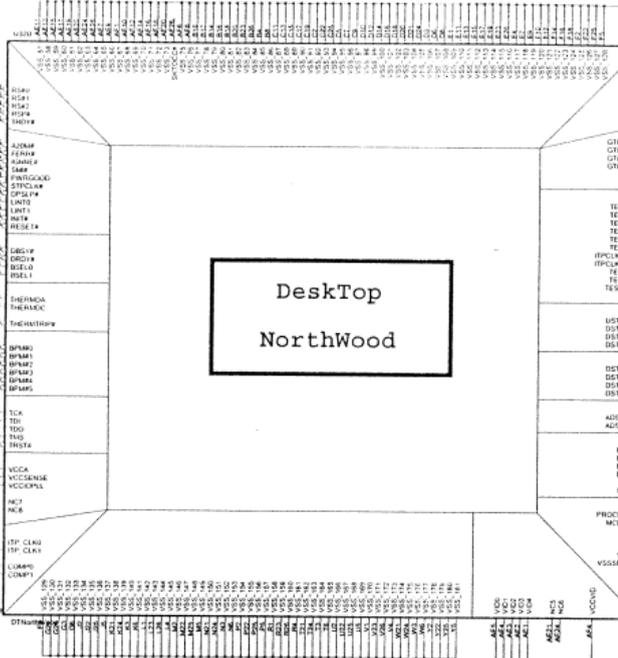
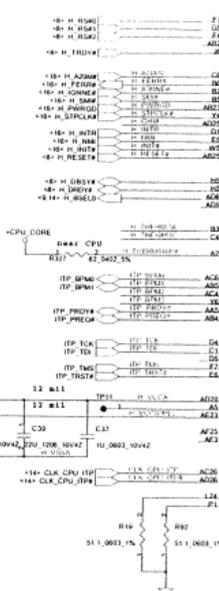




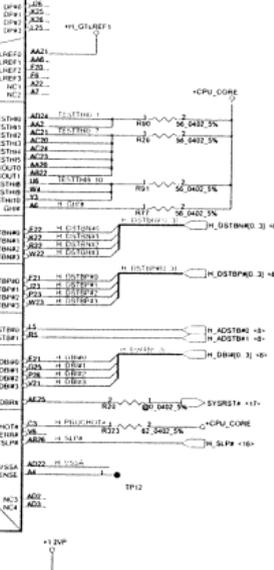
Place resistor <100nls from CPU pin



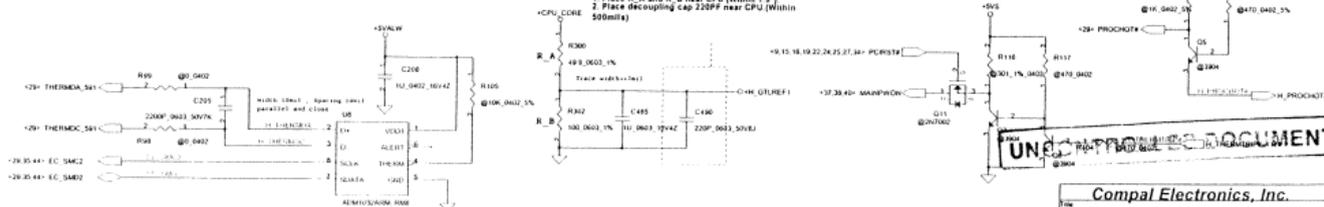
If used ITP port must depop



DeskTop  
NorthWood



**GTL Reference Voltage**  
Layout note:  
1. Place R\_A and R\_B near CPU (Within 1")  
2. Place decoupling cap 220PF near CPU (Within 500mils)



CPU Temperature Sensor

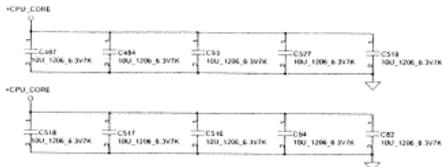
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SCHEMATIC, ASB LA-1591

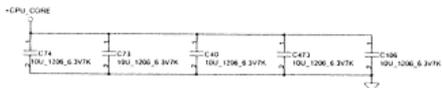
**Layout note:**

Place close to CPU, use 2-3 vias per PAD.  
Place 22uF caps underneath balls on solder side  
Place 10uF caps on the peripheral near balls  
Use 2-3 vias per PAD.

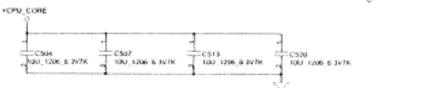
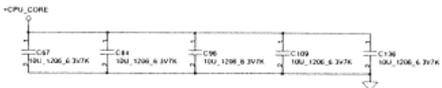
Please place these cap in the socket cavity area



Please place these cap on the socket north side



Please place these cap on the socket south side



**Layout note:**

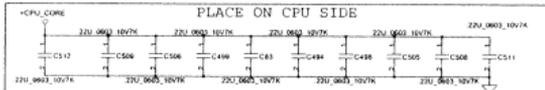
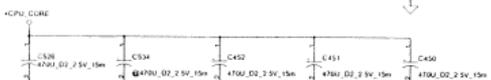
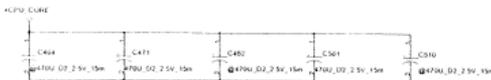
Place close to CPU power and ground pin as possible (15mils)

**For Desktop's CPU:**

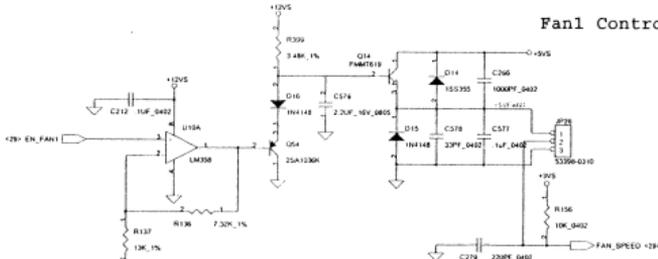
ESR total: <math>0.75m\ \Omega</math>  
C total: <math>0.550uF</math>

**For Mobile's CPU:**

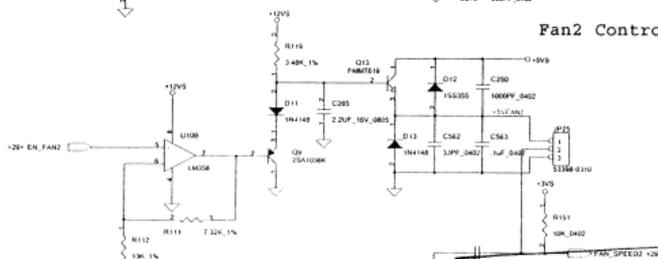
ESR total: <math>1.875m\ \Omega</math>  
C total: <math>0.550uF</math>



**Fan1 Control circuit**

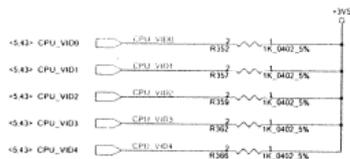


**Fan2 Control circuit**

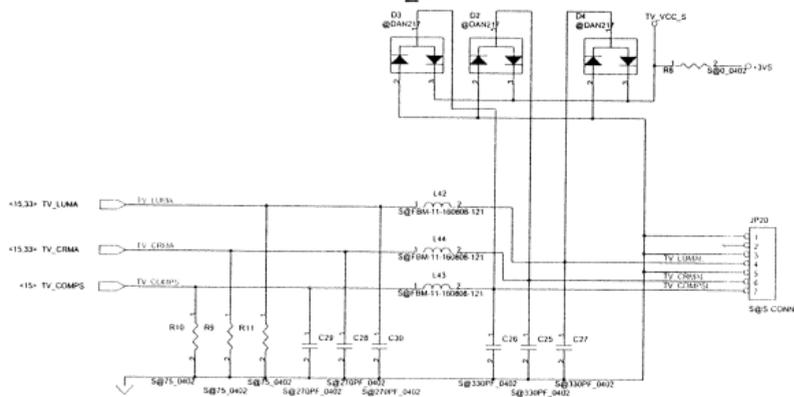


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### TV\_OUT CONNECTOR



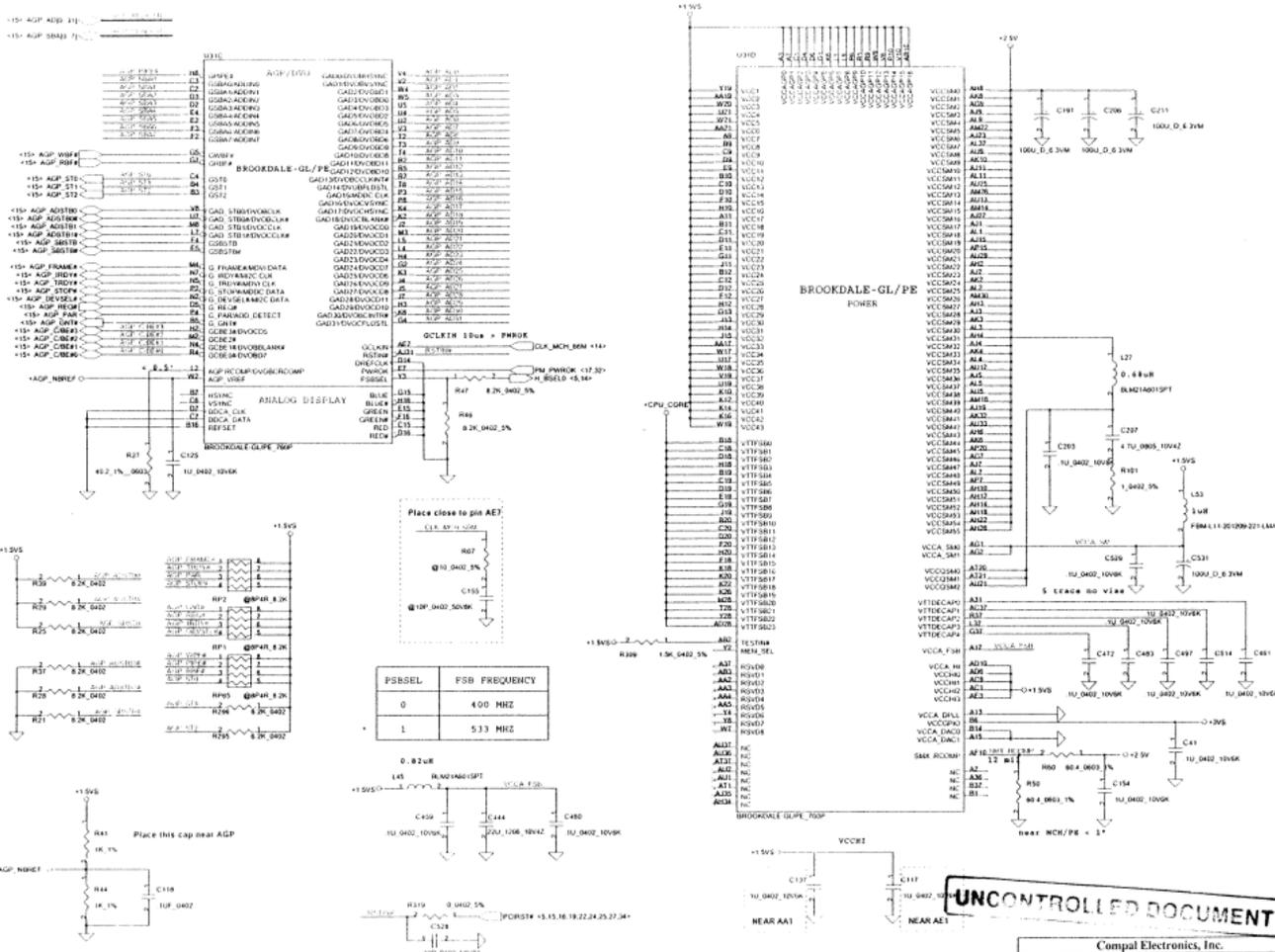
MO/DT_CPU	Mobile CPU					Desktop CPU					
	1					0					
	VID	4	3	2	1	0	4	3	2	1	0
VCC											
1.750V	0	0	0	0	0	0	0	1	0	0	
1.700V	0	0	0	0	1	0	0	1	1	0	
1.650V	0	0	0	1	0	0	1	0	0	0	
1.600V	0	0	0	1	1	0	1	0	1	0	
1.550V	0	0	1	0	0	0	1	1	0	0	
1.500V	0	0	1	0	1	0	1	1	1	0	
1.450V	0	0	1	1	0	1	0	0	0	0	
1.400V	0	0	1	1	1	1	0	0	1	0	
1.350V	0	1	0	0	0	1	0	1	0	0	
1.300V	0	1	0	0	1	1	0	1	1	0	
1.250V	0	1	0	1	0	1	1	0	0	0	
1.200V	0	1	0	1	1	1	1	0	1	0	
1.150V	0	1	1	0	0	1	1	1	0	0	
1.100V	0	1	1	0	1	1	1	1	1	0	
1.050V	0	1	1	1	0	X	X	X	X	X	
1.000V	0	1	1	1	1	X	X	X	X	X	
0.975V	1	0	0	0	0	X	X	X	X	X	
0.950V	1	0	0	0	1	X	X	X	X	X	
0.925V	1	0	0	1	0	X	X	X	X	X	
0.900V	1	0	0	1	1	X	X	X	X	X	
0.875V	1	0	1	0	0	X	X	X	X	X	
0.850V	1	0	1	0	1	X	X	X	X	X	
0.825V	1	0	1	1	0	X	X	X	X	X	
0.800V	1	0	1	1	1	X	X	X	X	X	
0.775V	1	1	0	0	0	X	X	X	X	X	
0.750V	1	1	0	0	1	X	X	X	X	X	
0.725V	1	1	0	1	0	X	X	X	X	X	
0.700V	1	1	0	1	1	X	X	X	X	X	
0.675V	1	1	1	0	0	X	X	X	X	X	
0.650V	1	1	1	0	1	X	X	X	X	X	
0.625V	1	1	1	1	0	X	X	X	X	X	
0.600V	1	1	1	1	1	X	X	X	X	X	
VRM output off	1	1	1	1	1	1	1	1	1	1	

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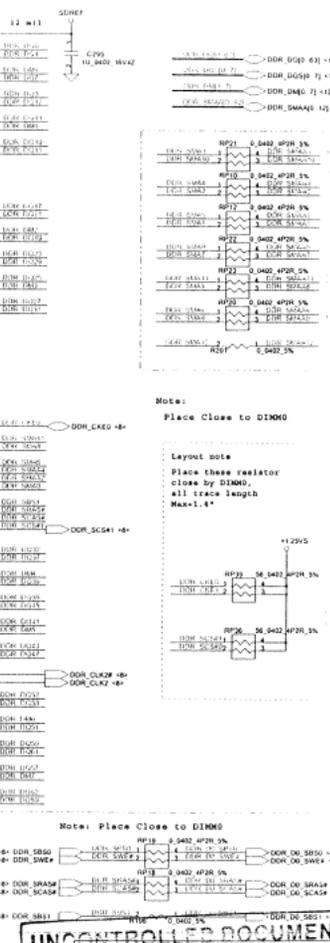
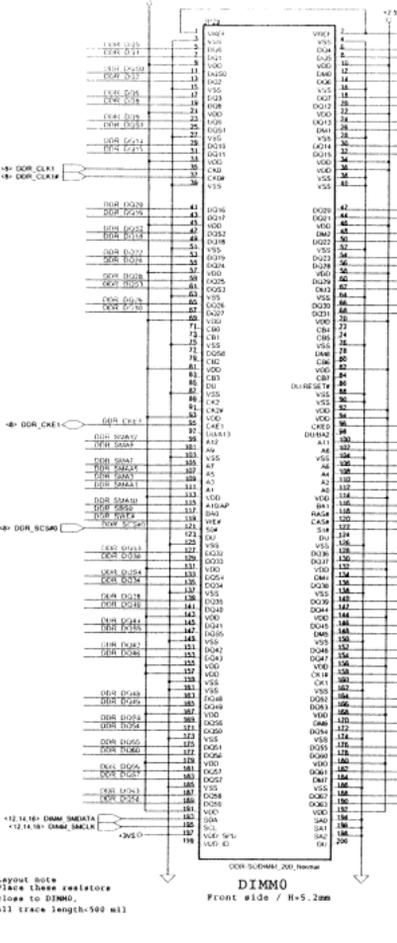
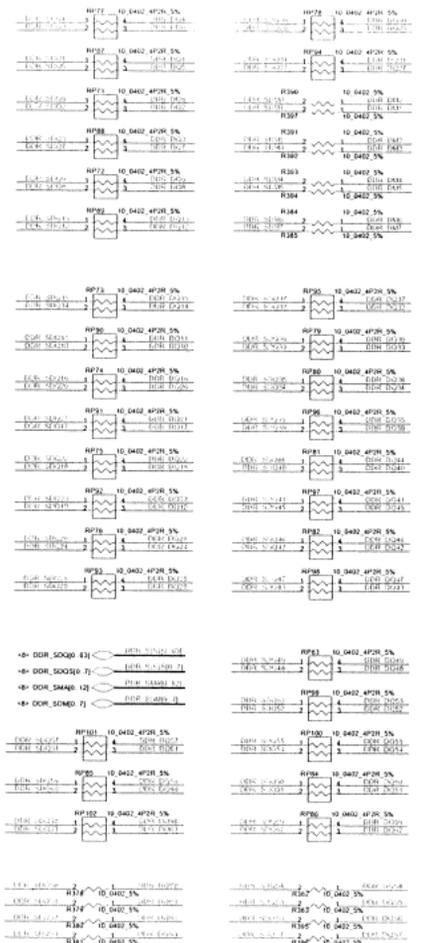




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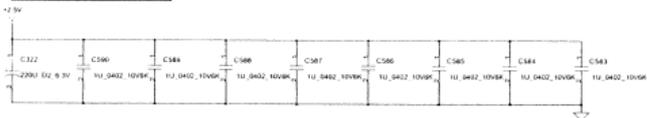




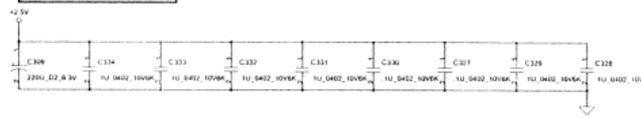
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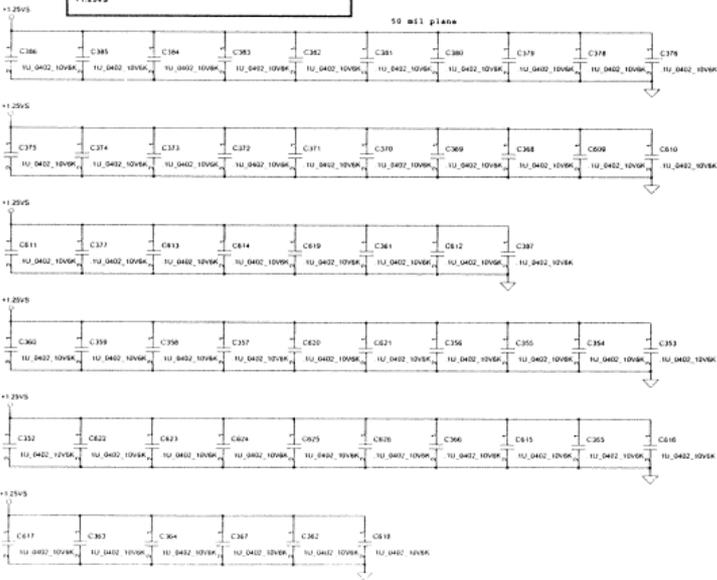
Layout note:  
Distribute as close as possible  
to DDR-SODIMM2



Layout note:  
Distribute as close as possible  
to DDR-SODIMM1



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



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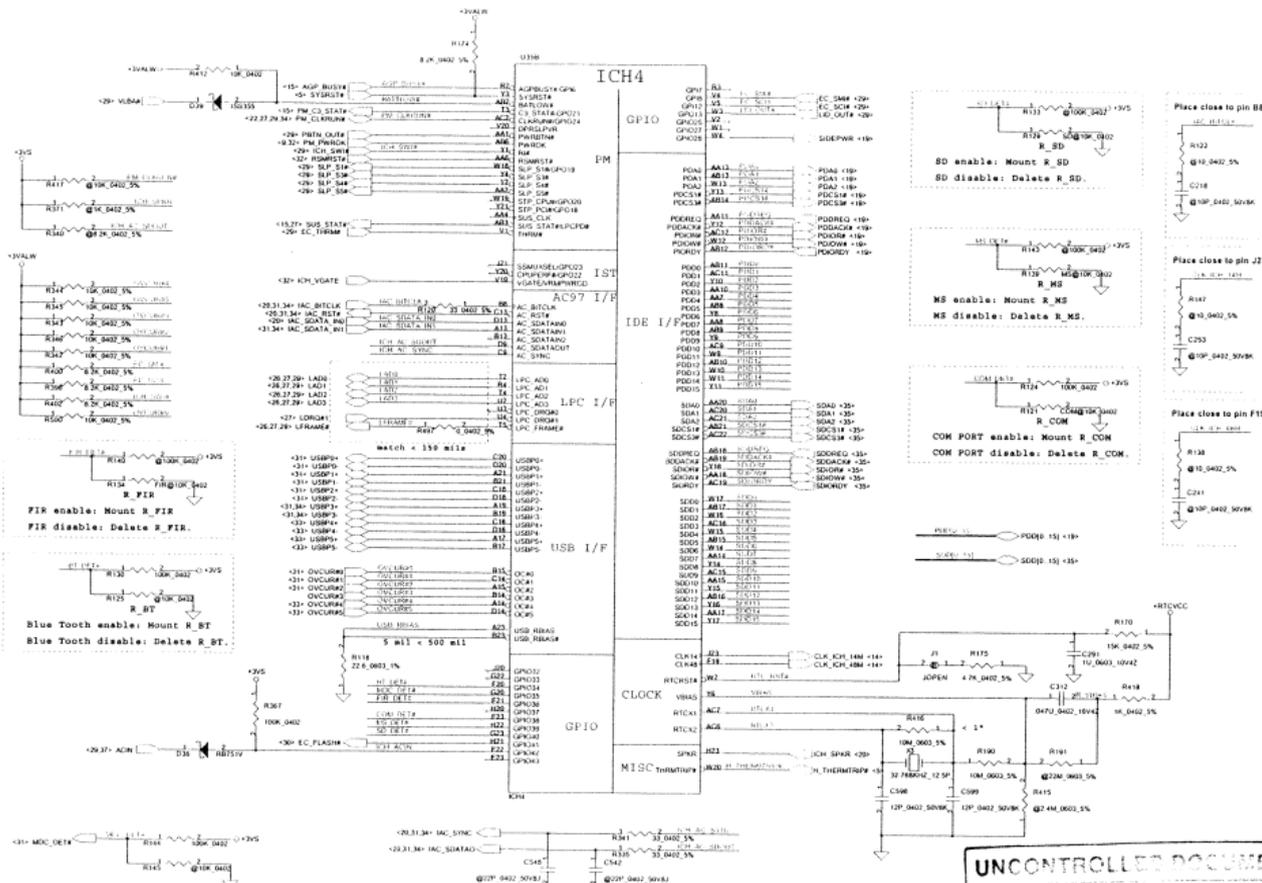
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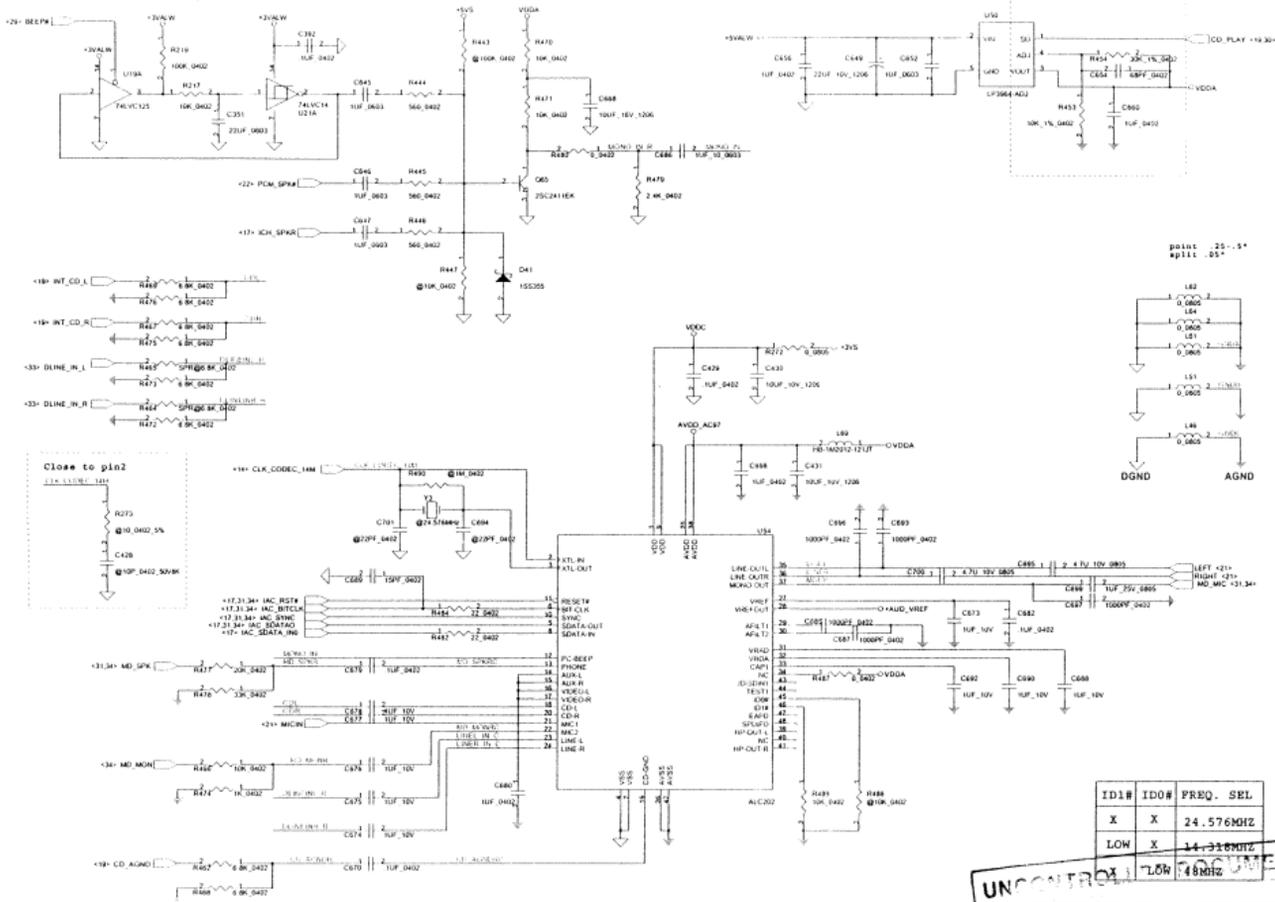


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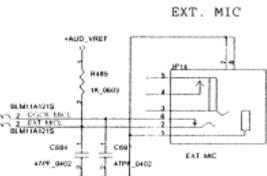
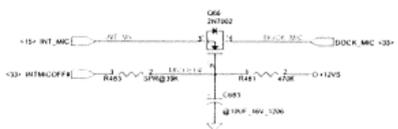
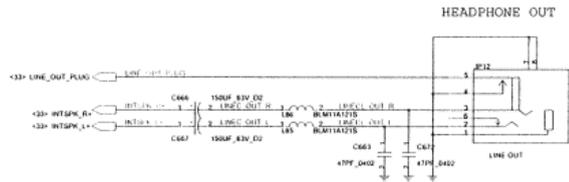
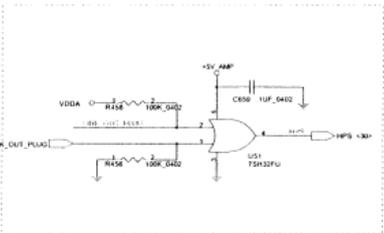
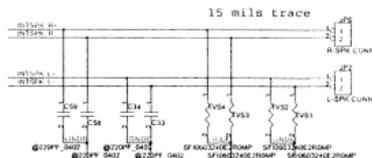
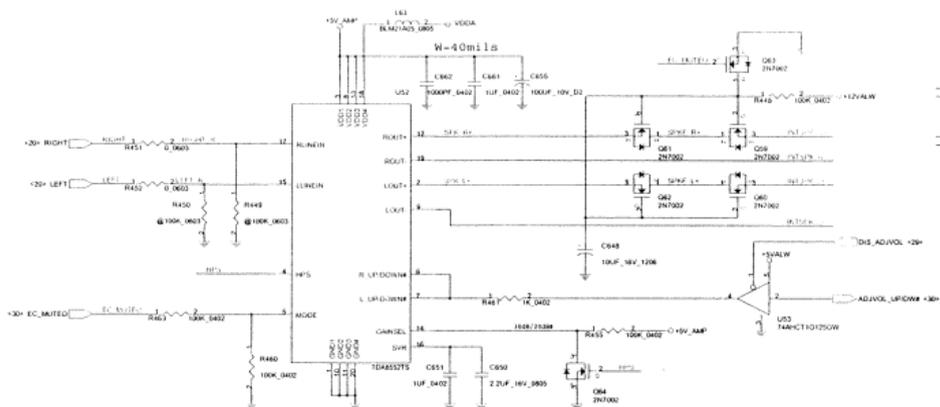
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L	X	14.318MHZ	
X		1.68MHZ	

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SCHEMATIC, MB11A-1591

Layout note:

- Trace width=15 mils.
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- 2. INTSPK\_R+/-, INTSPK\_L+/-
- 3. LINEOUT\_L, LINEOUT\_R



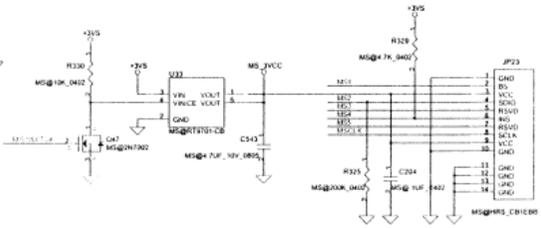
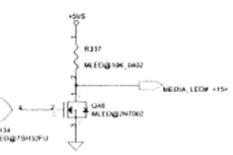
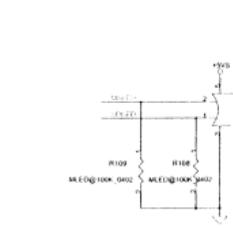
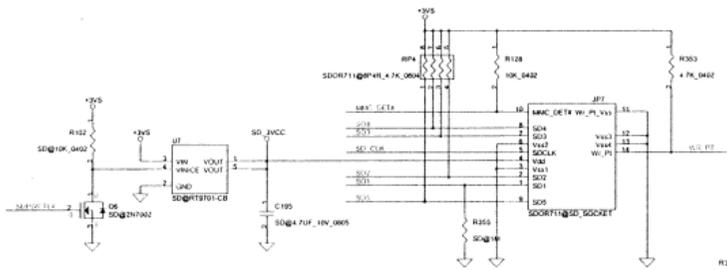
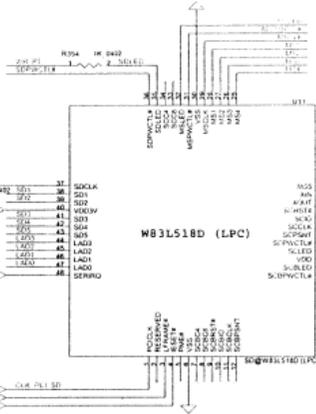
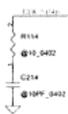
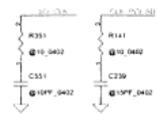
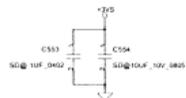
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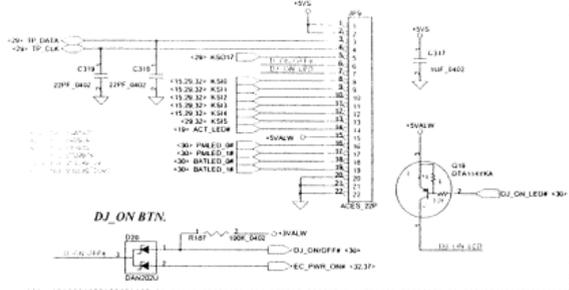
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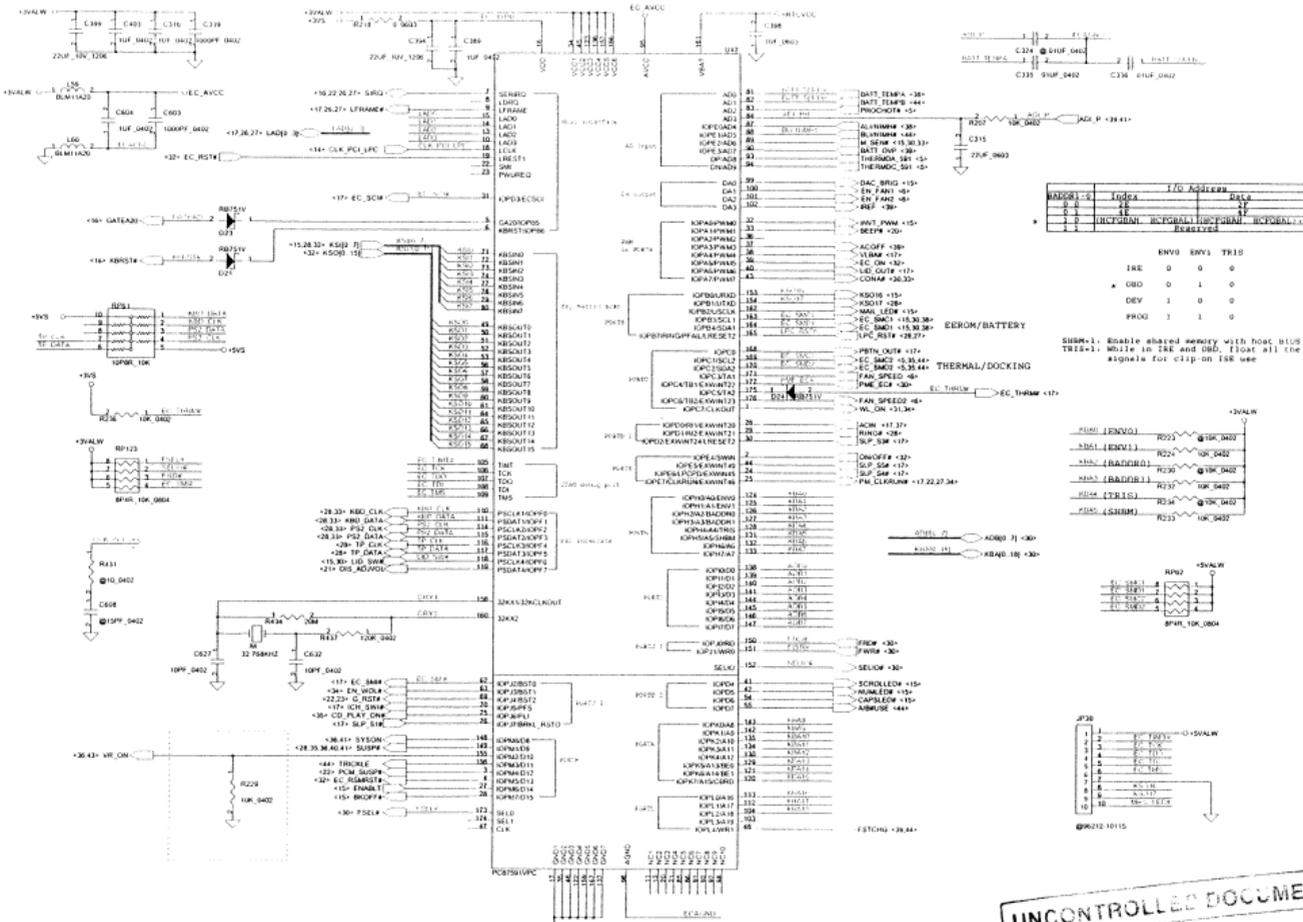
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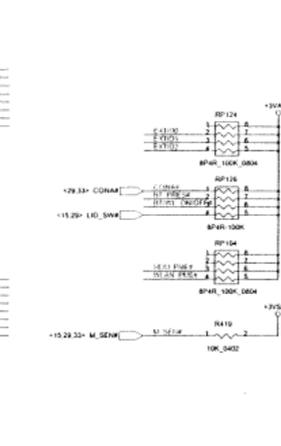
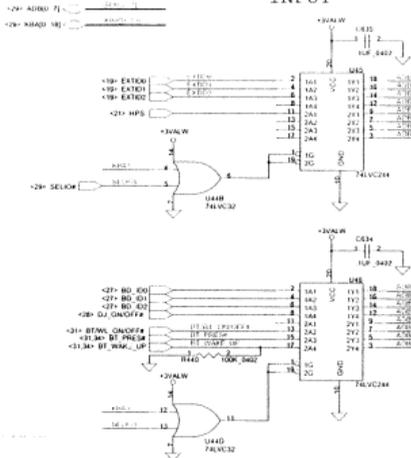
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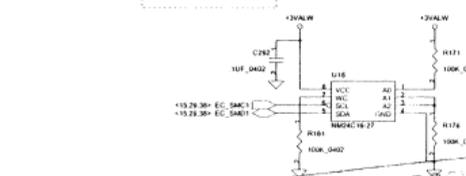
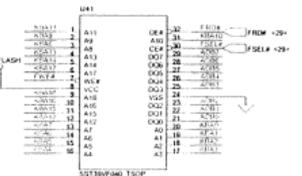
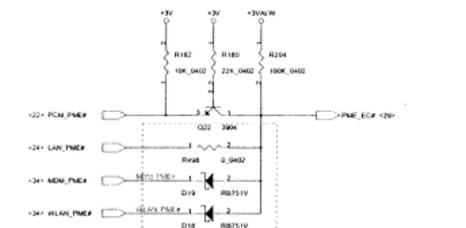
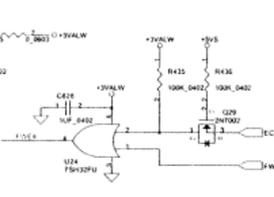
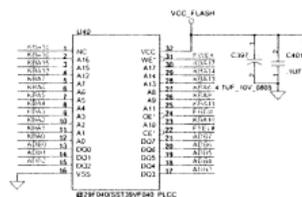
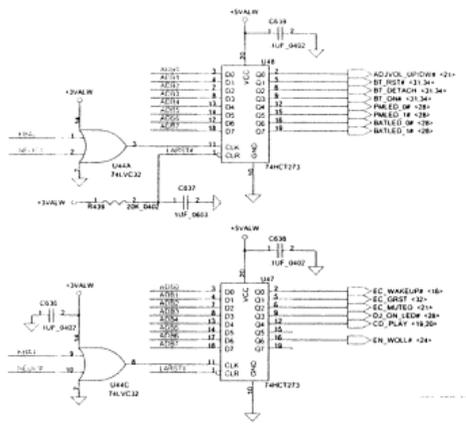


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INPUT



OUTPUT

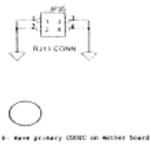
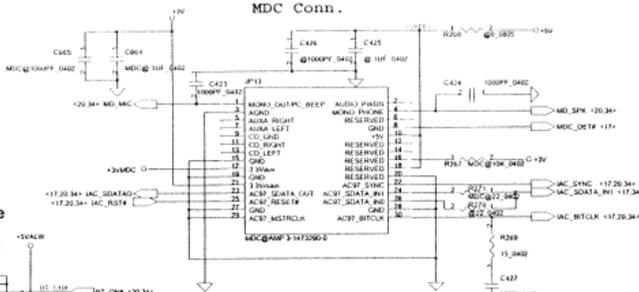


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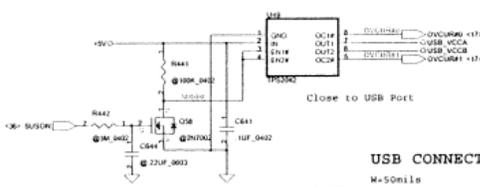
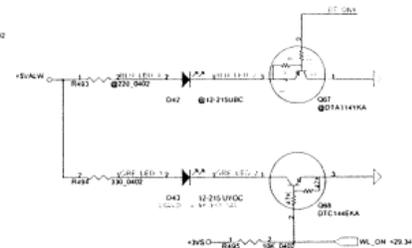
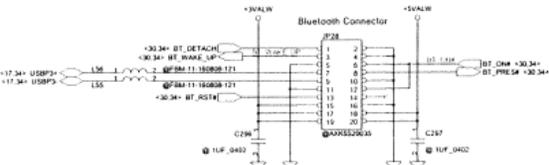
Compal Electronics, Inc.  
 SCHEMATIC, MB LA-1591  
 401235  
 V/B - IT IS 2003

MDC Note  
 Pin 1 is MC for Pctl and connect MDC modem  
 Pin 2 is MC for Pctl and connect MDC modem

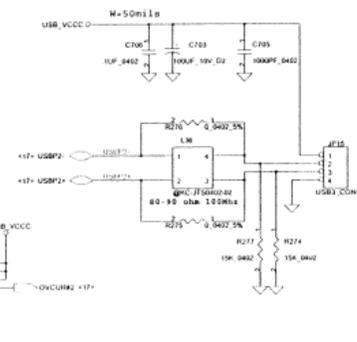
MDC Conn.



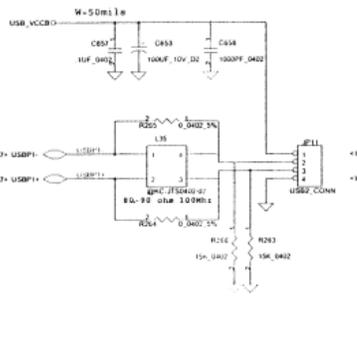
BlueTooth Interface



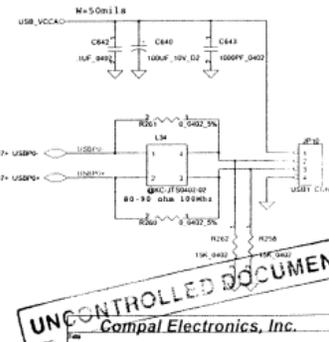
USB CONNECTOR 3



USB CONNECTOR 2



USB CONNECTOR 1

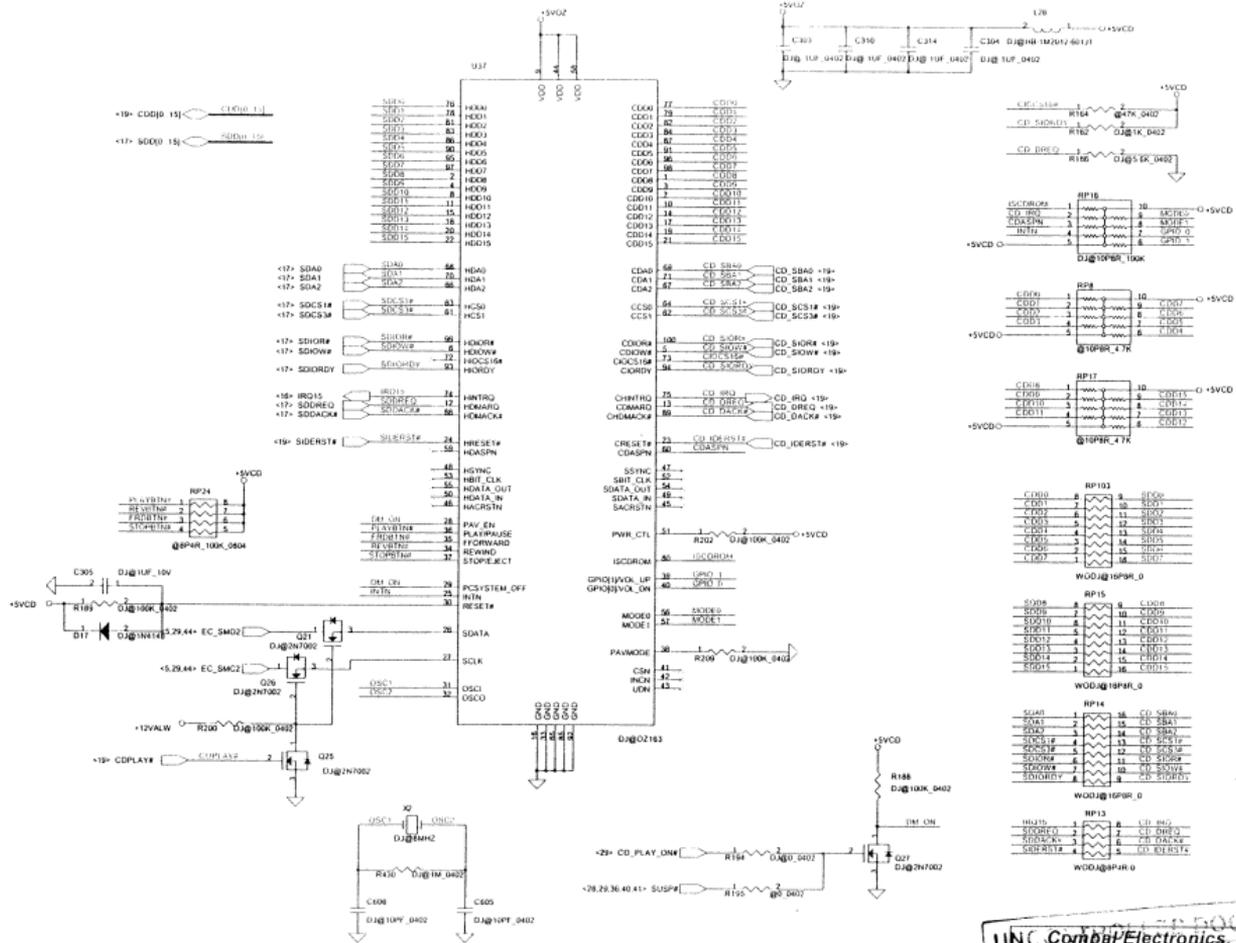


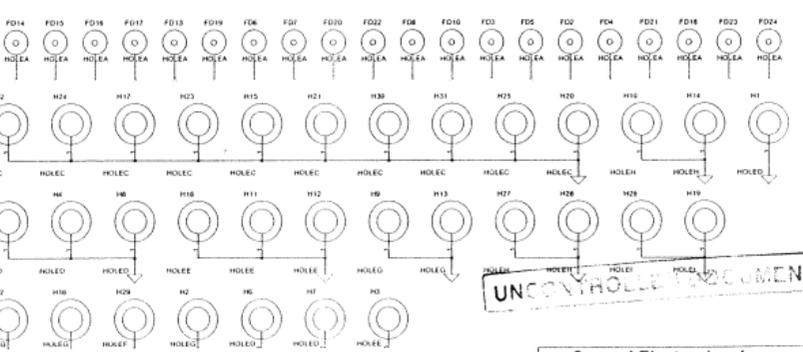
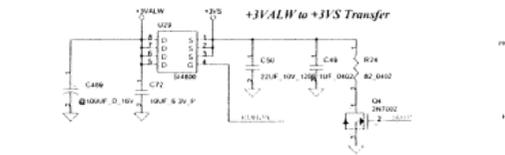
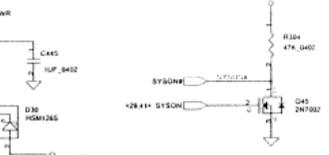
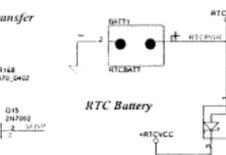
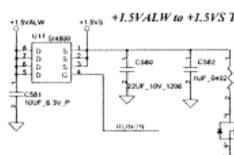
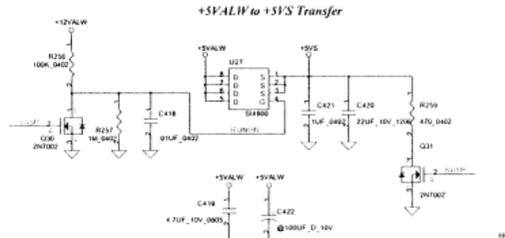
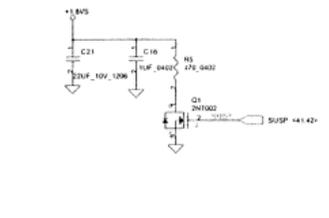
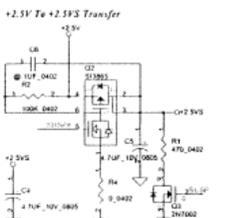
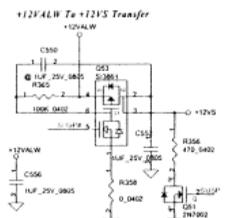
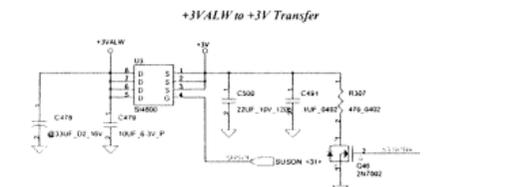
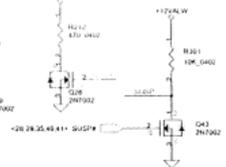
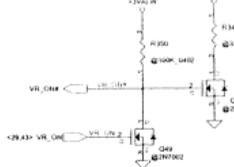
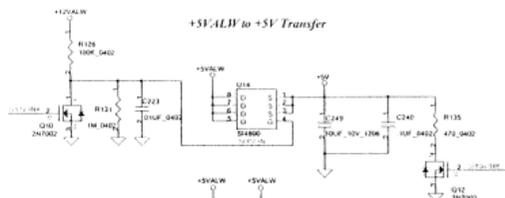
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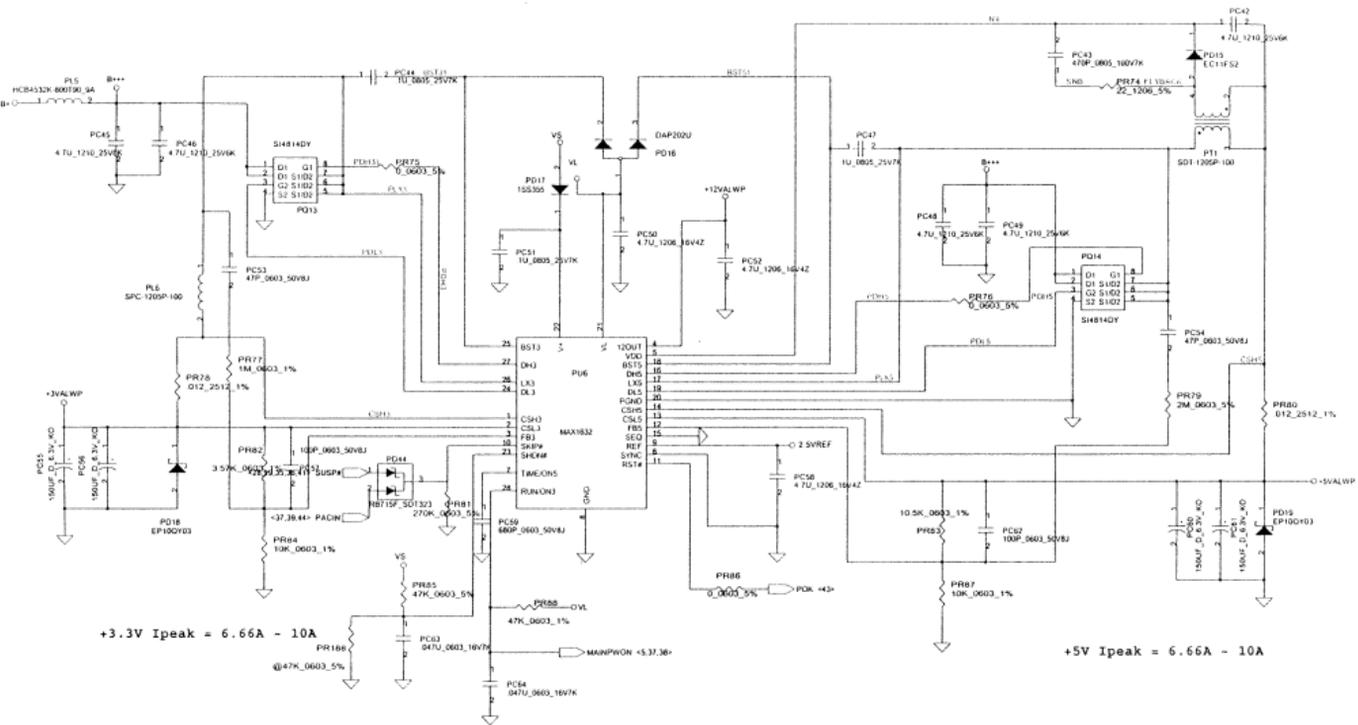
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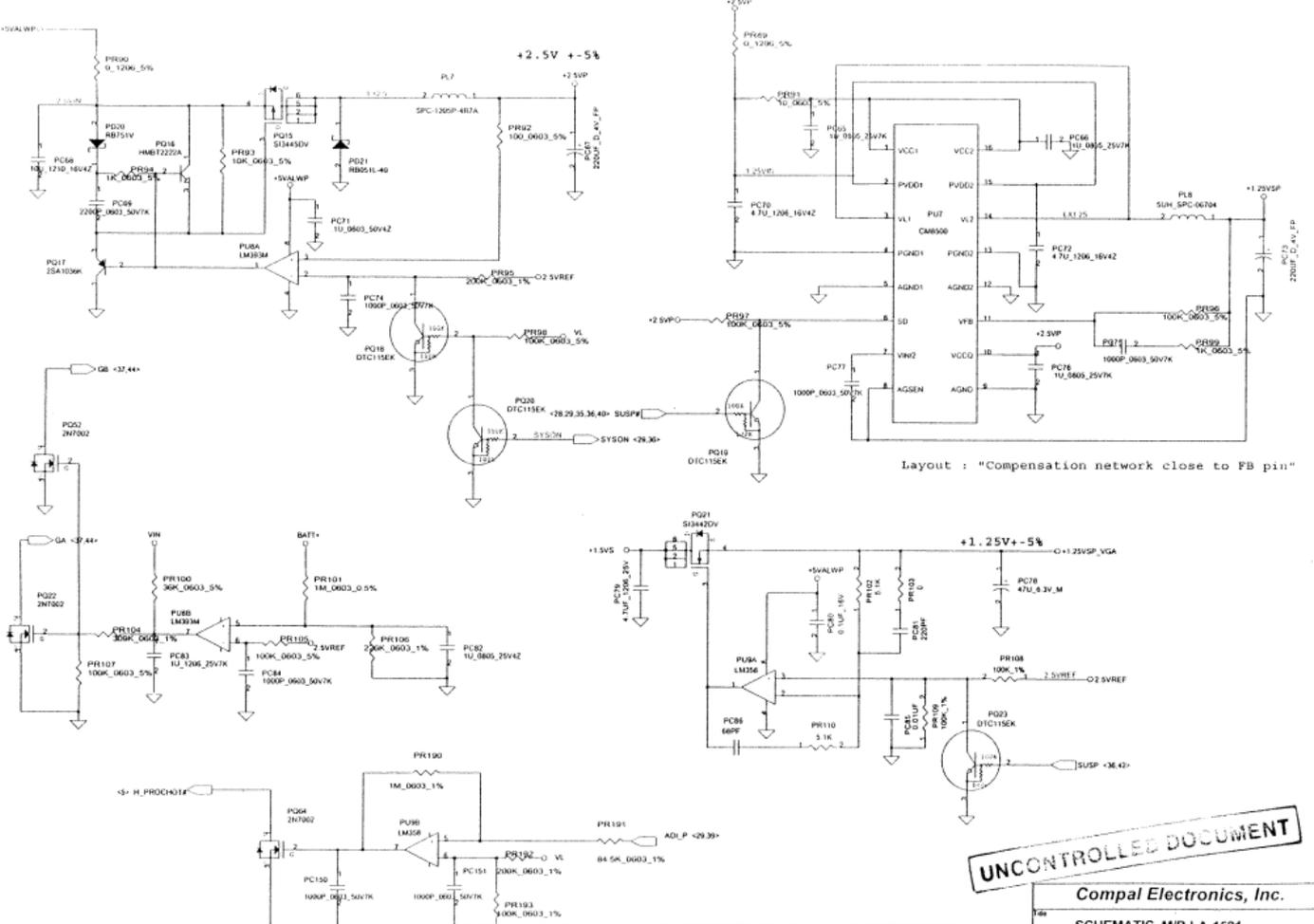
+3.3V Ipeak = 6.66A - 10A

+5V Ipeak = 6.66A - 10A

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SCHEMATIC, M/B LA-1591

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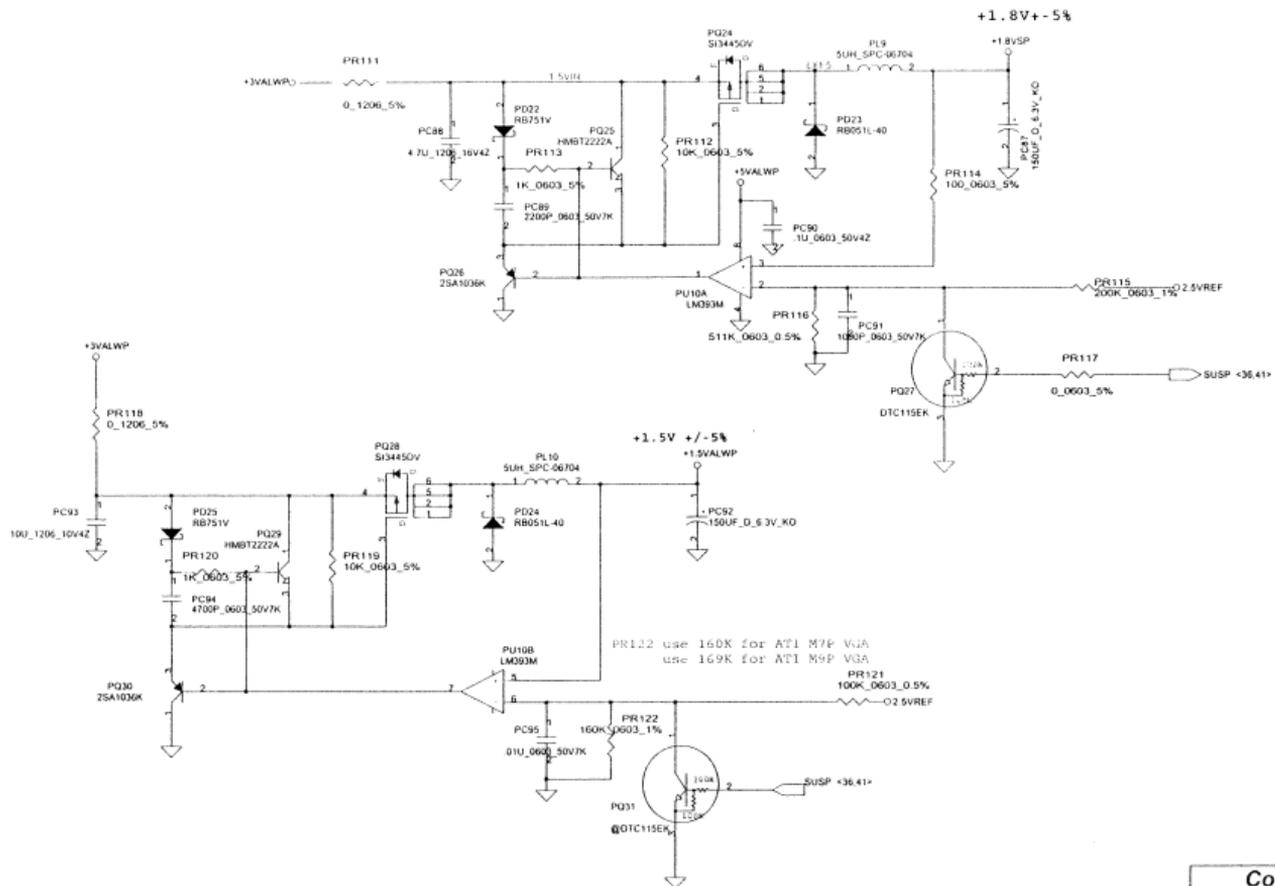


Layout : "Compensation network close to FB pin"

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<b>SCHEMATIC, M/B LA-1991</b>		
Doc No	Document Number	Rev
	401235	2A
Date	File No	Sheet
11/15/2000		41 of 47

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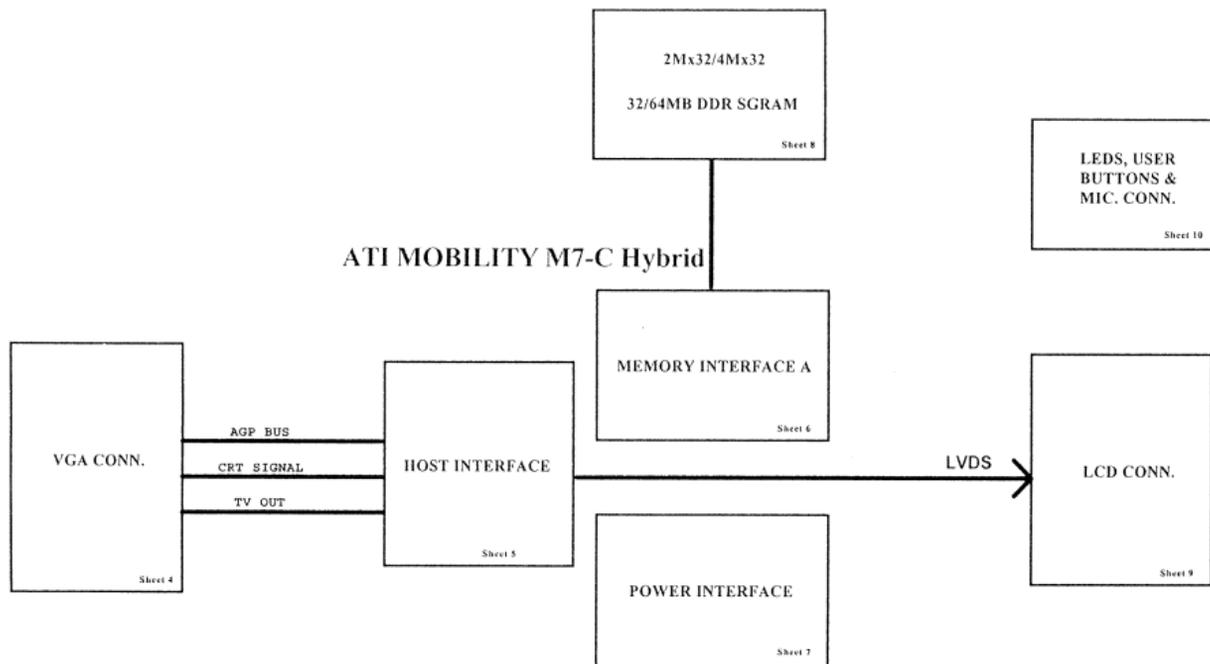


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Document Number	<b>401235</b>
Date	11/19/2000
Rev	47 of 47

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**Compal Electronics, Inc.**

Doc	Schematic, VGA/B LS-1593	Rev	1A
Doc Number	405628		
Date	1/11/02	Sheet	2 of 12

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# Capacitor Naming Note

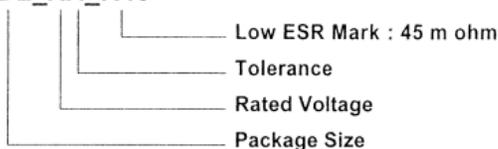
## Ceramic Capacitors :

0.1U\_0402\_XX



## Tantalum or Polymer Capacitors :

10U\_D2\_XX\_R45



## Rated Voltage :

Symbol	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	H	I	J	K
W.V.	2	2.5	3	3.15	4	5.5	6	6.15	6.3	8	10	12	12.5	15	16	20	25	30	35	40	50

Symbol	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	a	b
W.V.	63	90	100	110	125	160	200	250	400	500	630	1K	2K	2.5K	3K	5K

## Temperature Characteristics :

Symbol	0	1	2	3	4	5	6	7	8	9	A
Code	NPO	X5R	X7R	Y5V	Y5P	Y5U	Z5V	Z5P	Z5U	T2M	COG

## Tolerance :

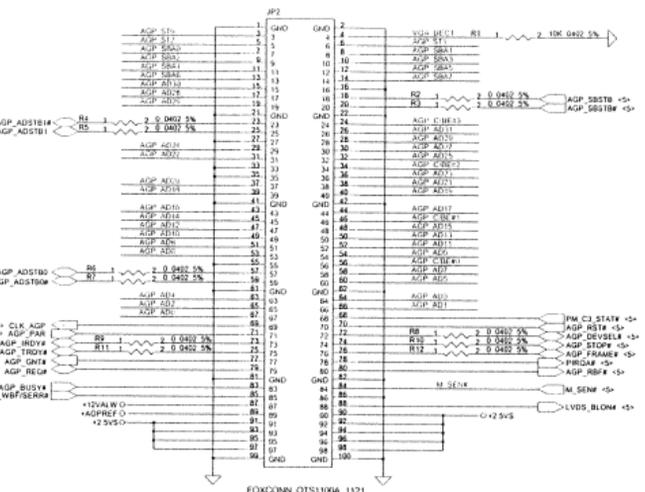
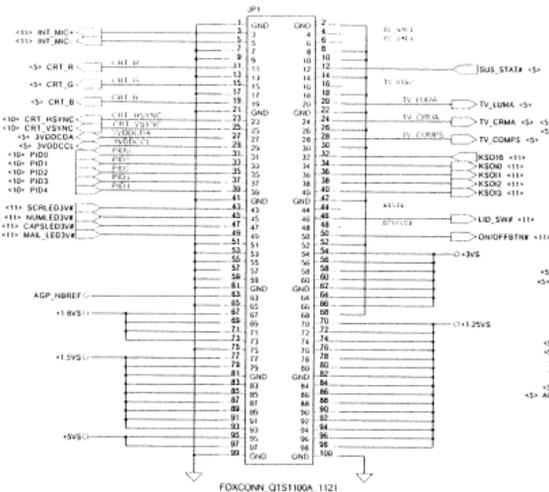
Symbol	A	B	C	D	F	G	H	J	K	M	N
Tolerance	+0.05PF	+0.1PF	+0.25PF	+0.5PF	+1%	+2%	+3%	+5%	+10%	+20%	+30%

Symbol	P	Q	V	X	Z
Tolerance	+100, -0%	+30, -10%	+20, -10%	+40, -20%	+80, -20%

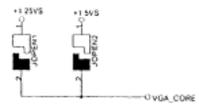
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# VGA CONNECTOR

- > AGP\_A00 [31] -> AGP\_A00 [31]
- > AGP\_C0B[0:3] -> AGP\_C0B [0:3]
- > AGP\_S0A[0:7] -> AGP\_S0A [0:7]
- > AGP\_S1[0:2] -> AGP\_S1 [0:2]
- > AGP\_S1[0:2] -> AGP\_S1 [0:2]



140mil: VGA CORE 50mil: INVPHR B+ 40mil: +2.5VS,  
 +2.5V, +3VS 20mil: +3.8VS, +5VS, +1.25VS, +12VALW  
 15mil: +AGPREF, AGP\_NBREF



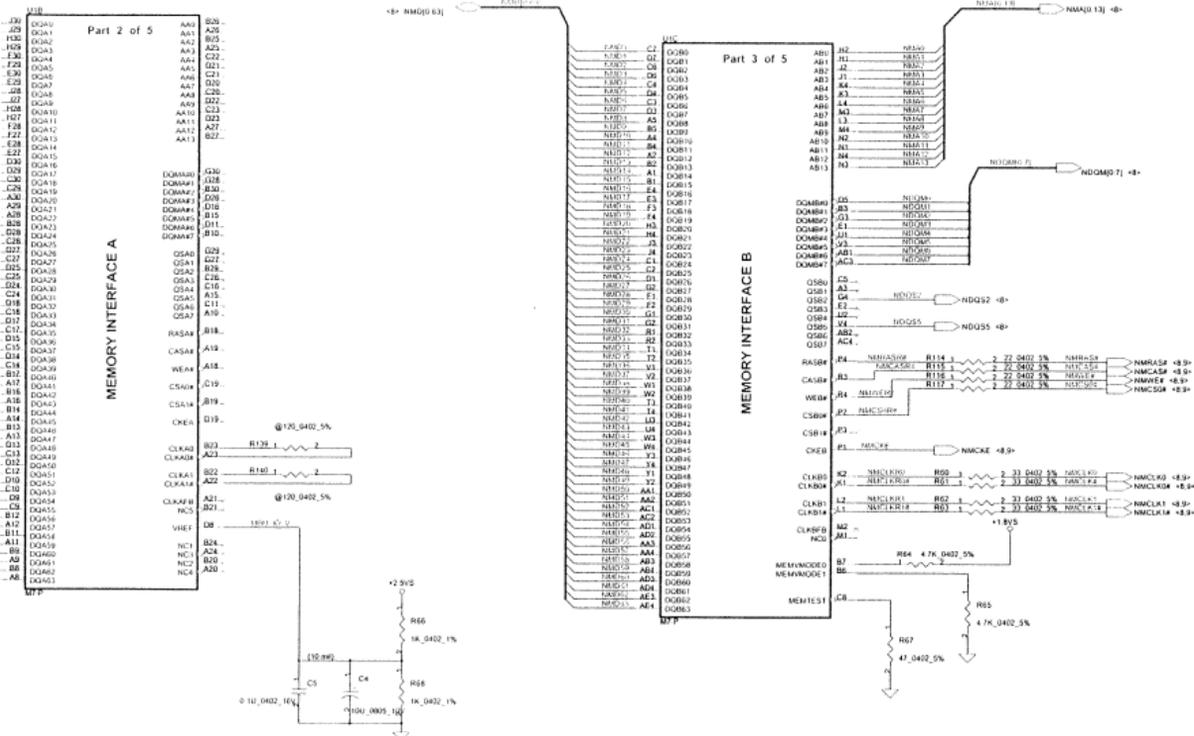
AGP\_WBF/SERR#(J2 B7) FOR M9P

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 Rev: 1

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PARALLEL TERMINATION PLACE AT MID POINT

SSTL\_2 CLASS 1

PLACEMENT AT MID POINT

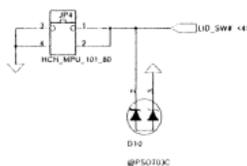
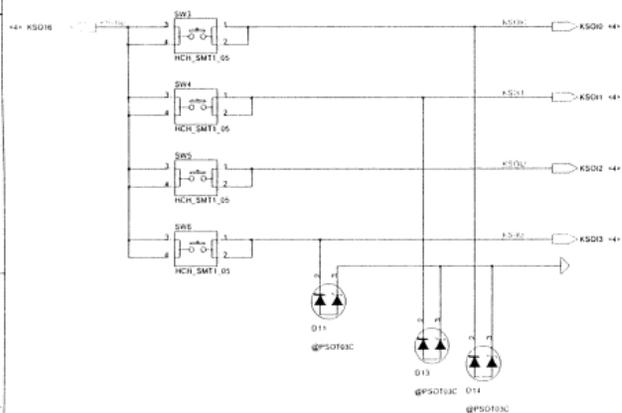
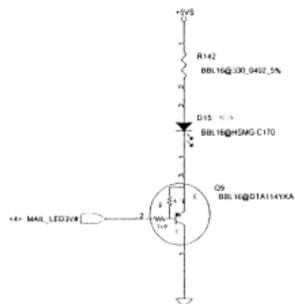
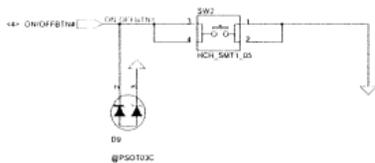
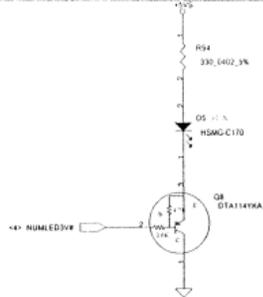
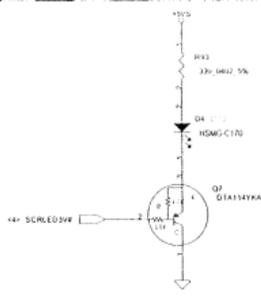
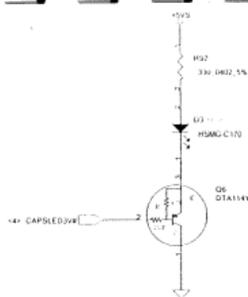
PARALLEL TERMINATION COULD BE OMITTED UNDER SOME CIRCUMSTANCES. PLEASE CONSULT WITH AS FOR DETAILS.

+2.5V5

+1.25V5

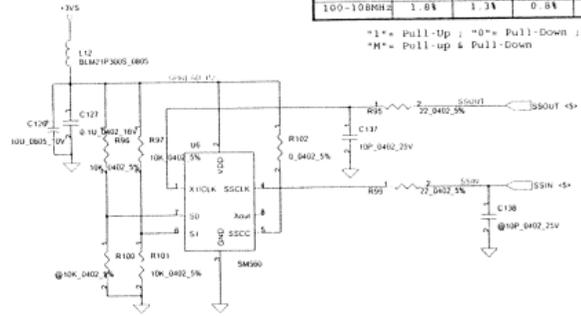






Input Freq. Range	Selection Table For SM560			
	S1=1 S0=M	S1=0 S0=1	S1=1 S0=1	S1=0 S0=1
60-70MHz	2.5%	1.9%	1.2%	1.0%
70-80MHz	2.3%	1.6%	1.1%	0.9%
80-100MHz	2.0%	1.4%	1.0%	0.8%
100-108MHz	1.8%	1.3%	0.8%	0.6%

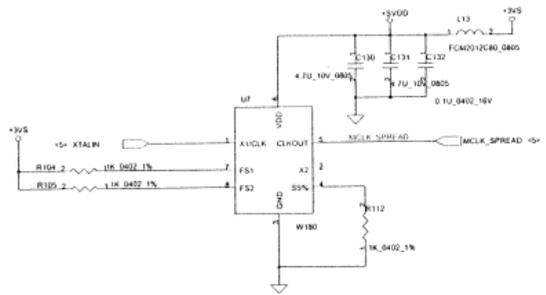
\*1\* = Pull-Up; \*0\* = Pull-Down;  
\*M\* = Pull-up & Pull-Down



SM560 Schematic for 50MHz - 108MHz

SST Ratio selection table for W180

Modulation setting	SST RATIO
SS%	
0	1.25%
1	3.75%



Note : Input Freq = 27MHz, FS2=1, FS1=1

W180 Schematic for 27MHz

