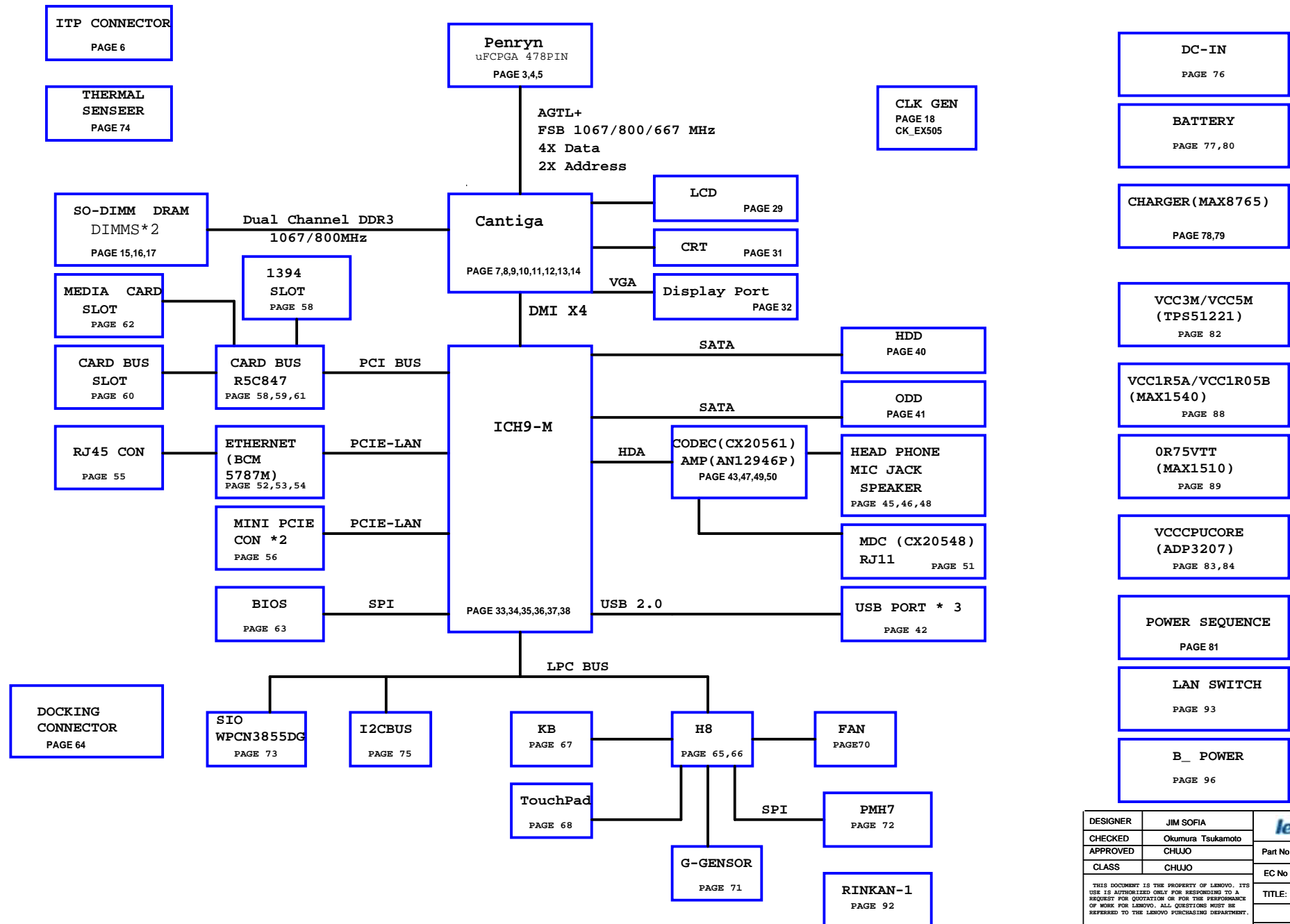



Waikiki-3 INTEG SVT LOGIC SCHEMATICS 20080423



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APPROVED	CHUJO	
CLASS	CHUJO	
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TITLE: Waikiki3_INT SIT BLOCK DIAGRAM		sheet 1 of 101 Wednesday, April 23, 2008
LENOVO CONFIDENTIAL		

EC LIST

SDV

- 1. change R486 from 33 ohm no_asm to 0 ohm asm

MECH SIV

- 1. Update EC from EC614 to EC618

SIV

- 1. Update EC from WK3_SIV_EC501 TO WK3_SIV_EC509
- 2. Update Capacitor value discription to meet yamato request
- 3. Update EC from WK3_SIV_EC510 TO WK3_SIV_EC586

Mech SIT


- 1. Update EC WK3_SIV_EC591

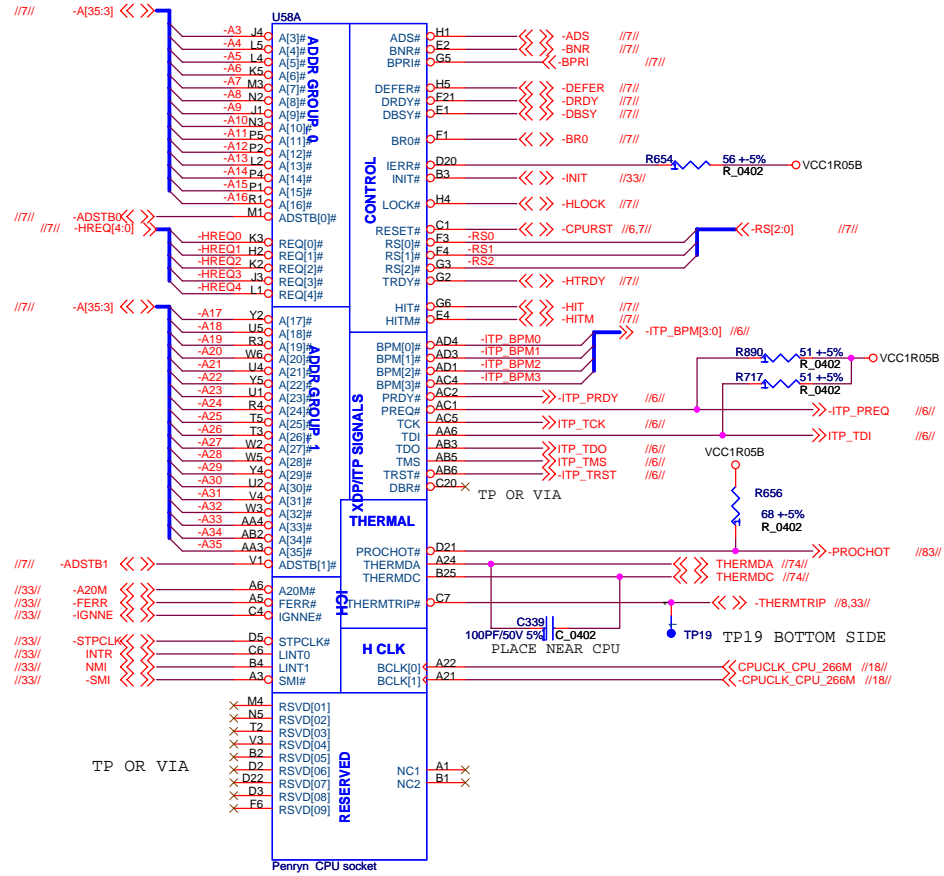
SIT

- 1. Update EC from WK3_SIT_EC501 to WK3_SIT_EC515
- 2. Update EC from WK3_SIT_EC516 to WK3_SIT_EC532
- 3. Change L35 to BLM15EG221SN1D
- 4. Update EC from WK3_SIT_EC533 to WK3_SIT_EC534
- 5. correct MR4 lenovo partnumber to 41U6075
- 6. Update EC from WK3_SIT_EC535 to WK3_SIT_EC536
- 7. Update EC from WK3_SIT_EC537 to WK3_SIT_EC549
SIT_GERBER OUT 20070227
- 8. Update EC from WK3_SIT_EC550 to WK3_SIT_EC553

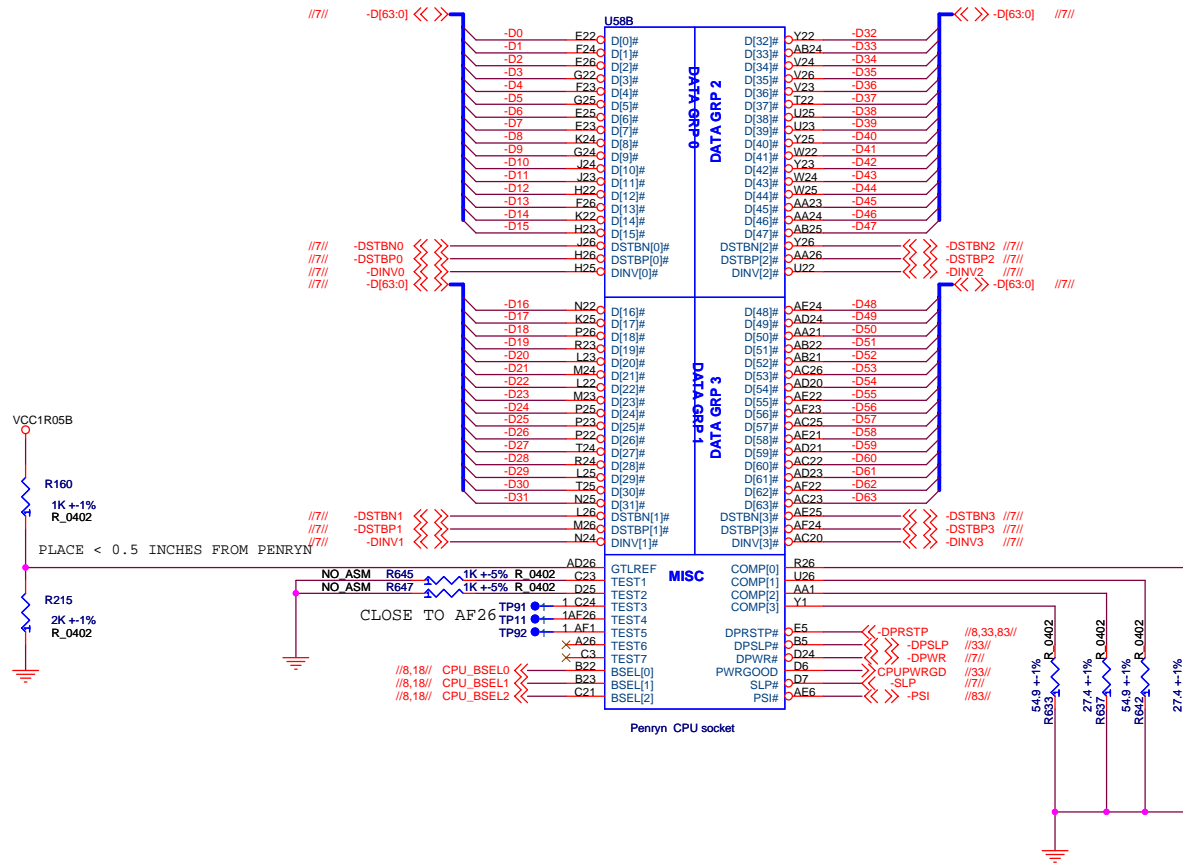
SVT

- 1. Update EC from WK3_SVT_EC501 to WK3_SVT_EC512
- 2. change TP56/TP57/TP58 footprint (20080417 gerber release)
- 3 20080421 release gerber: change TP57 footprint
- 4. Update EC from WK3_SVT_EC513 to WK3_SVT_EC516


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		EC No . L53251
		TITLE: Waikiki3_INT SIT
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		sheet 2 of 101 Wednesday, April 23, 2008

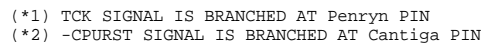



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LENOVO CONFIDENTIAL		CPU-1
		sheet 3 of 101 Tuesday, April 01, 2008



COM0/2: Z0=27.4 OHM TRACE<0.5"
COM1/3: Z0=55 OHM TRACE<0.5"

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LENOVO CONFIDENTIAL		CPU-2
		sheet 4 of 101 Tuesday, April 01, 2008



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			ITP CONN
LENOVO CONFIDENTIAL			sheet 6 of 101 Tuesday, April 01, 2008

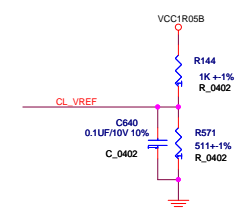
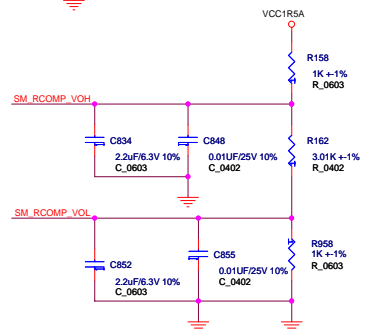
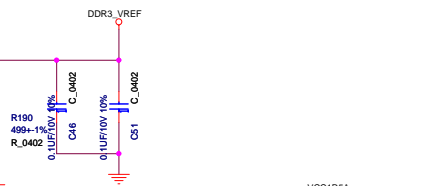
NEED TP OR VIA FOR THESE PINS

HOST BUS CLK SELECT TABLE

TABLE

//4.18// C

CFG5 DMI R183

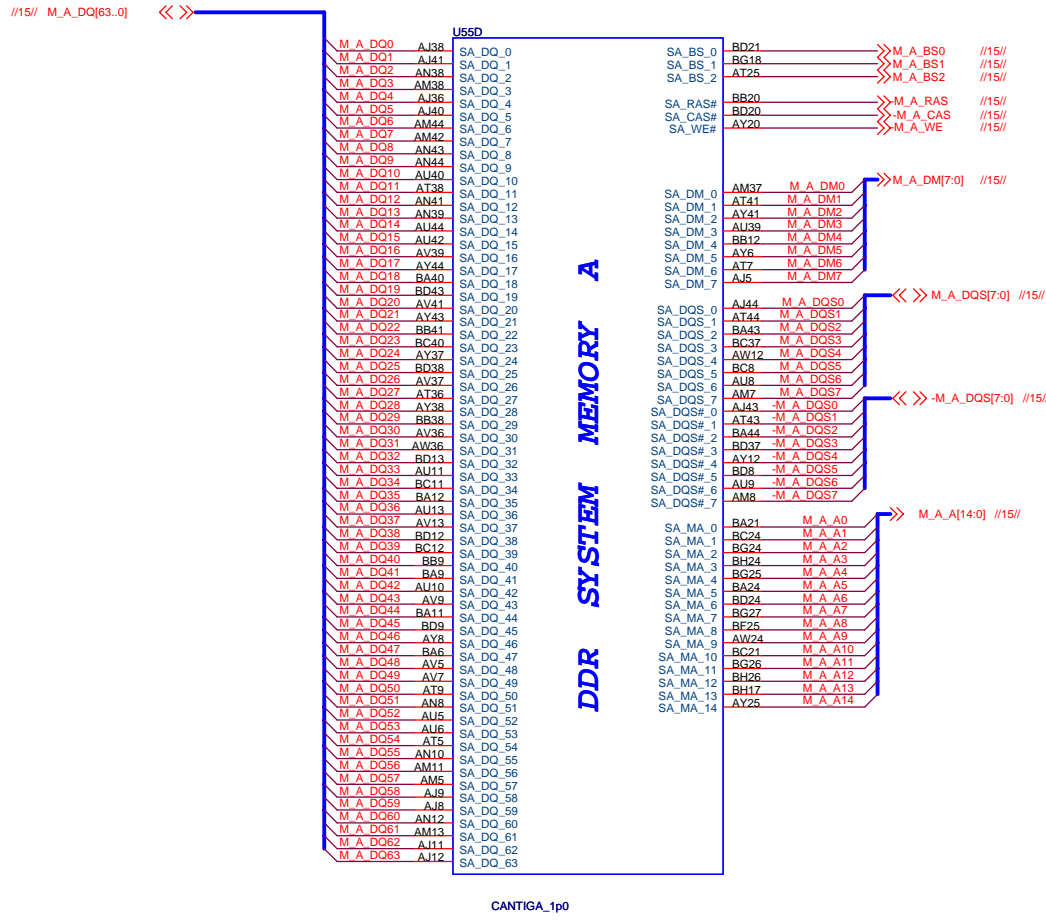



lenovo 联想

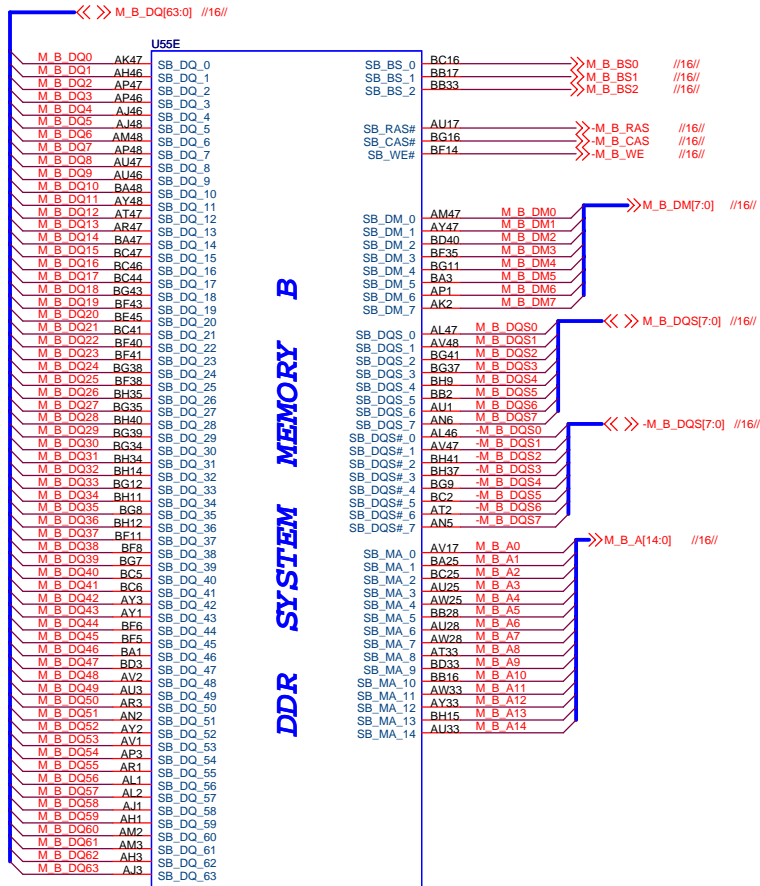
Part No. 44C4349EC No. 153251

TITLE: Walkiki3_INT SIT


CANTIGA DMIsheet 8 of 10

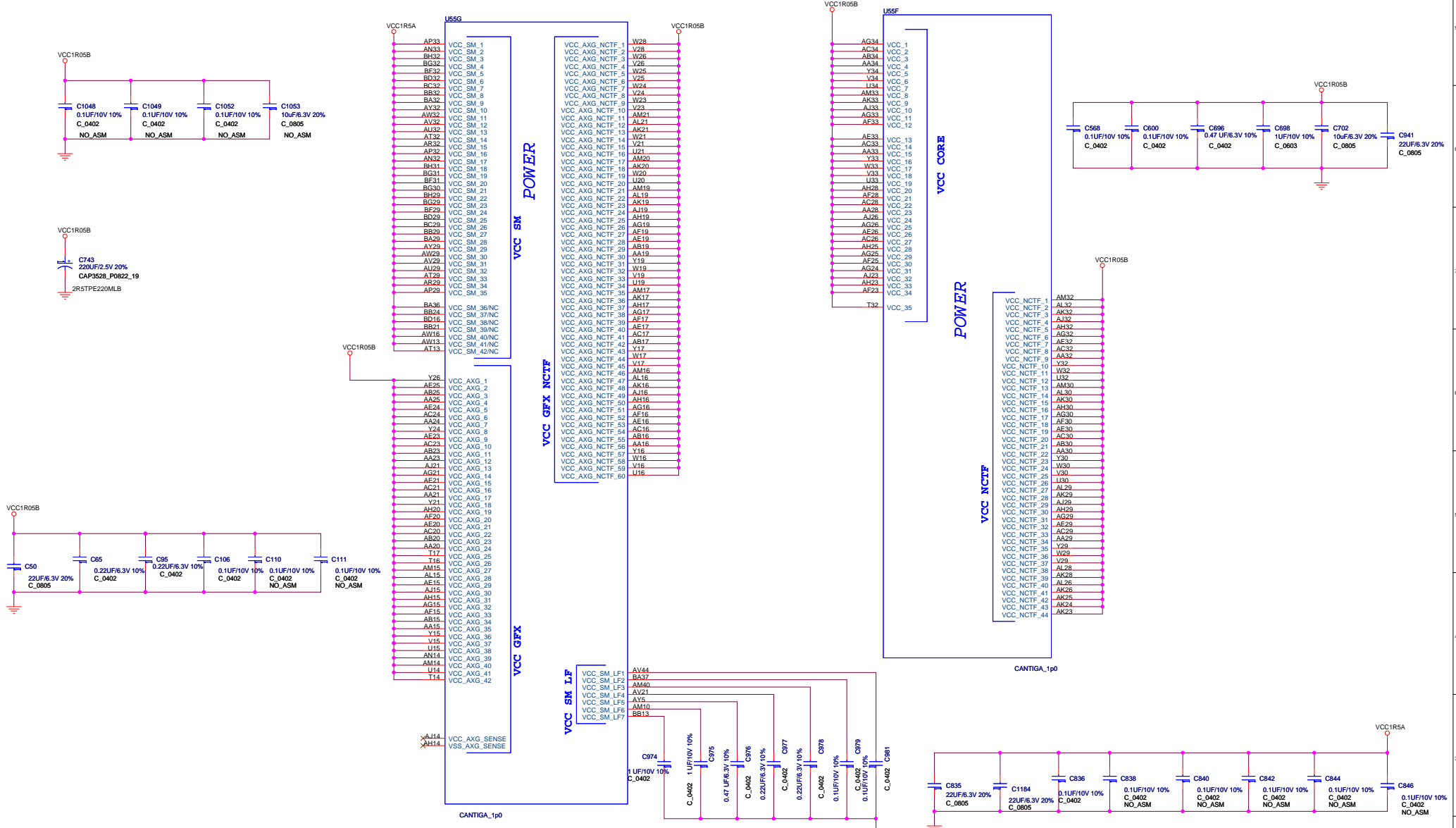


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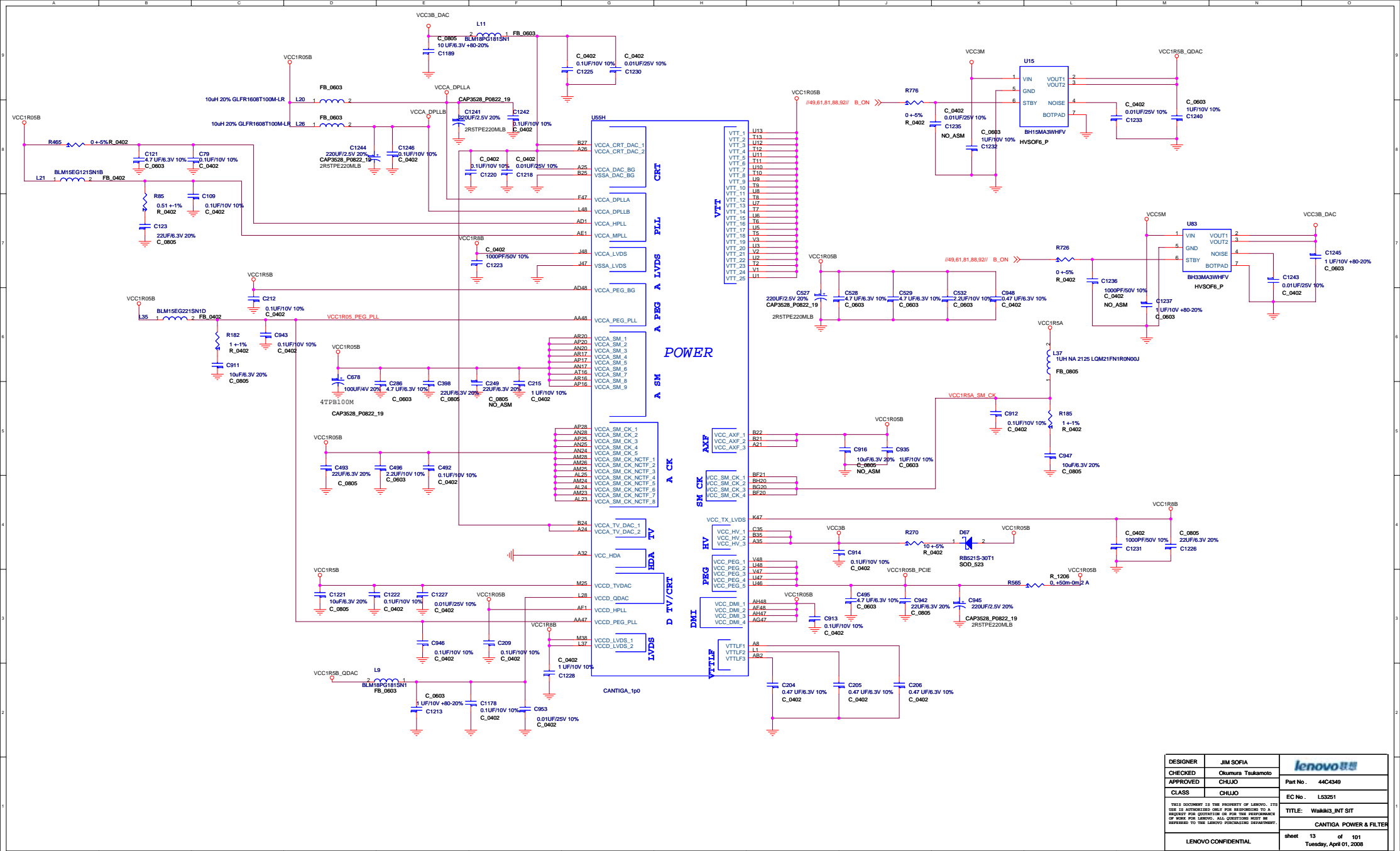



CANTIGA_1p0

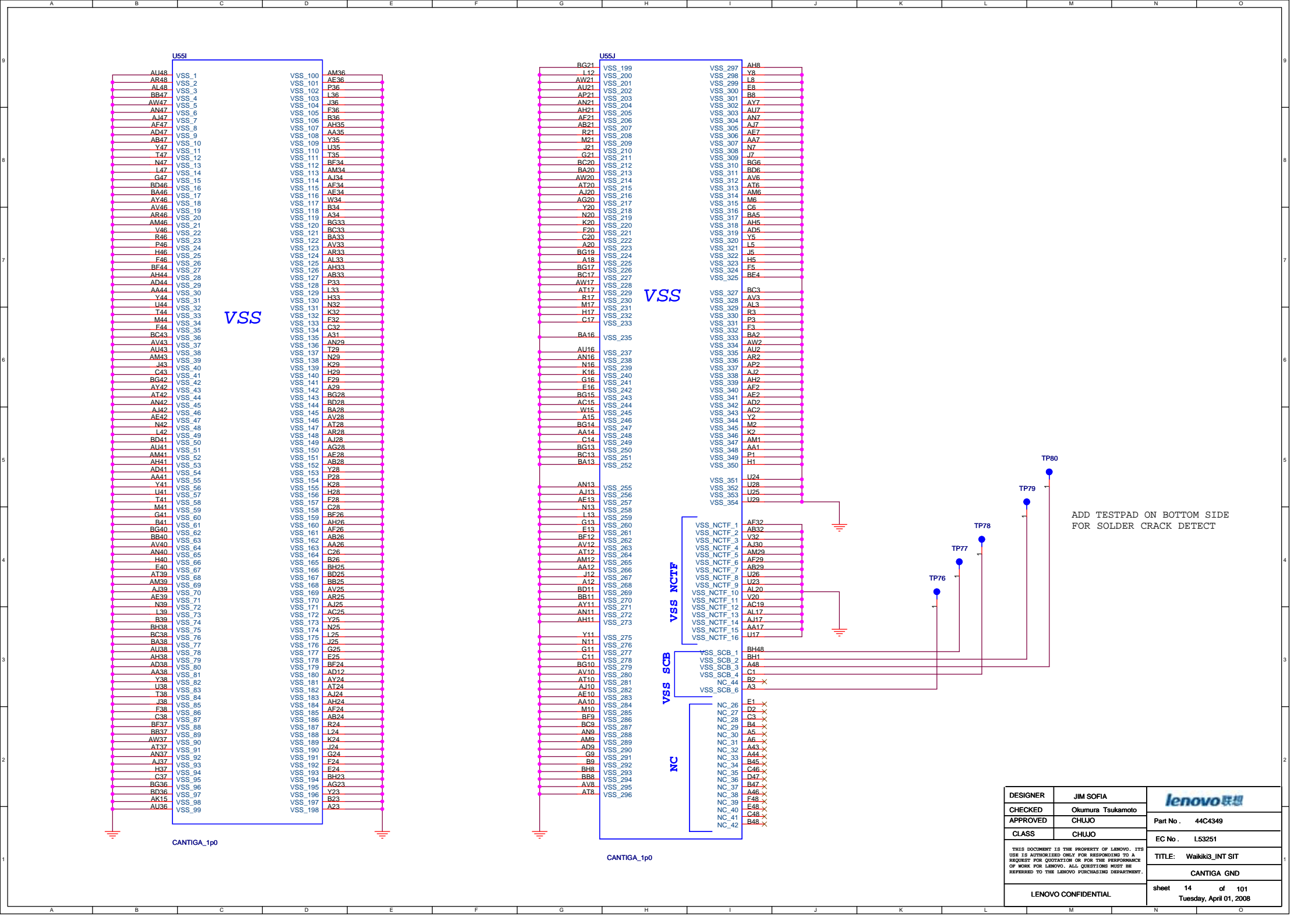
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LENOVO CONFIDENTIAL		sheet 11 of 101 Tuesday, April 01, 2008




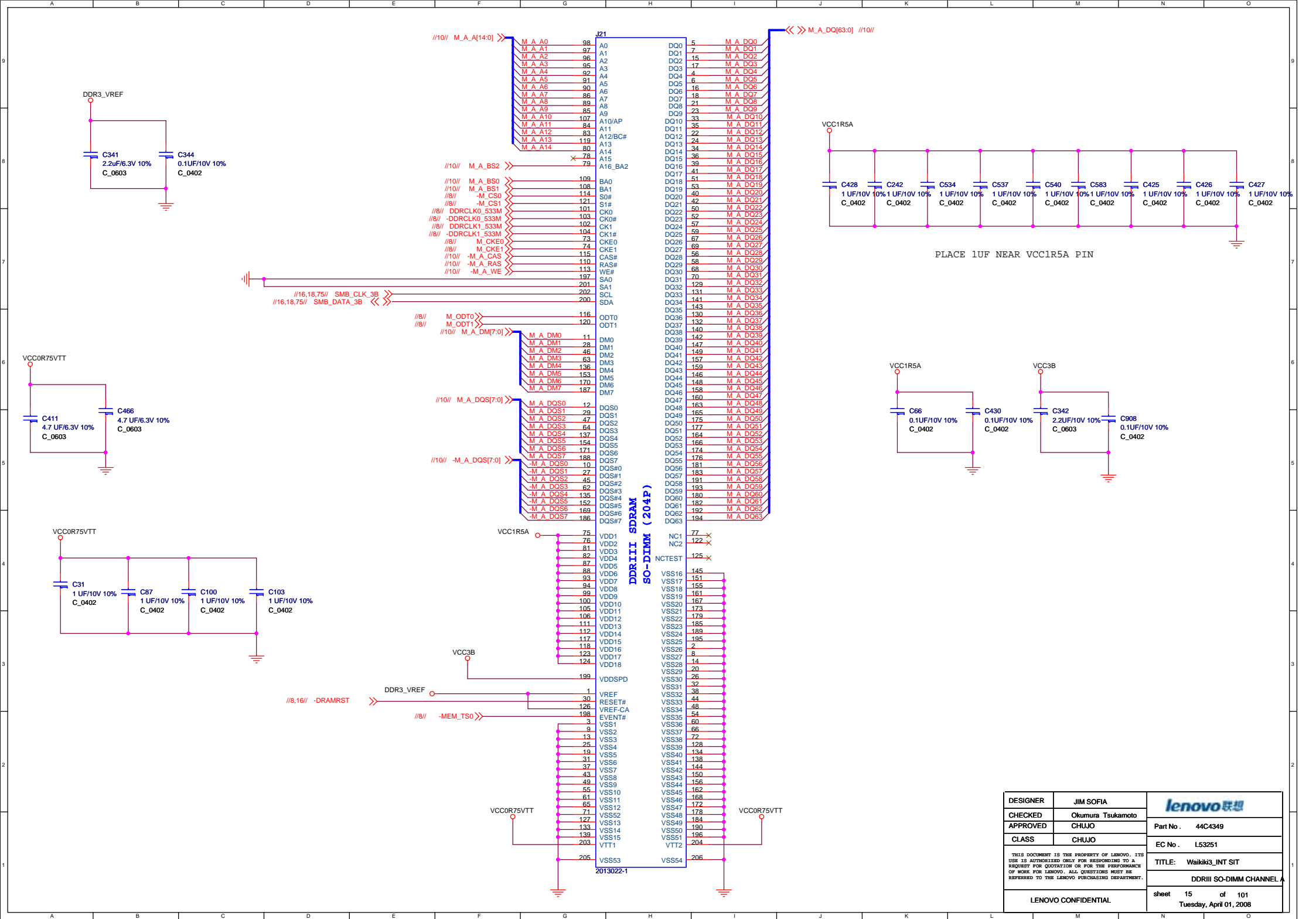
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CANTIGA POWER		sheet 12 of 101
LENOVO CONFIDENTIAL		Tuesday, April 01, 2008

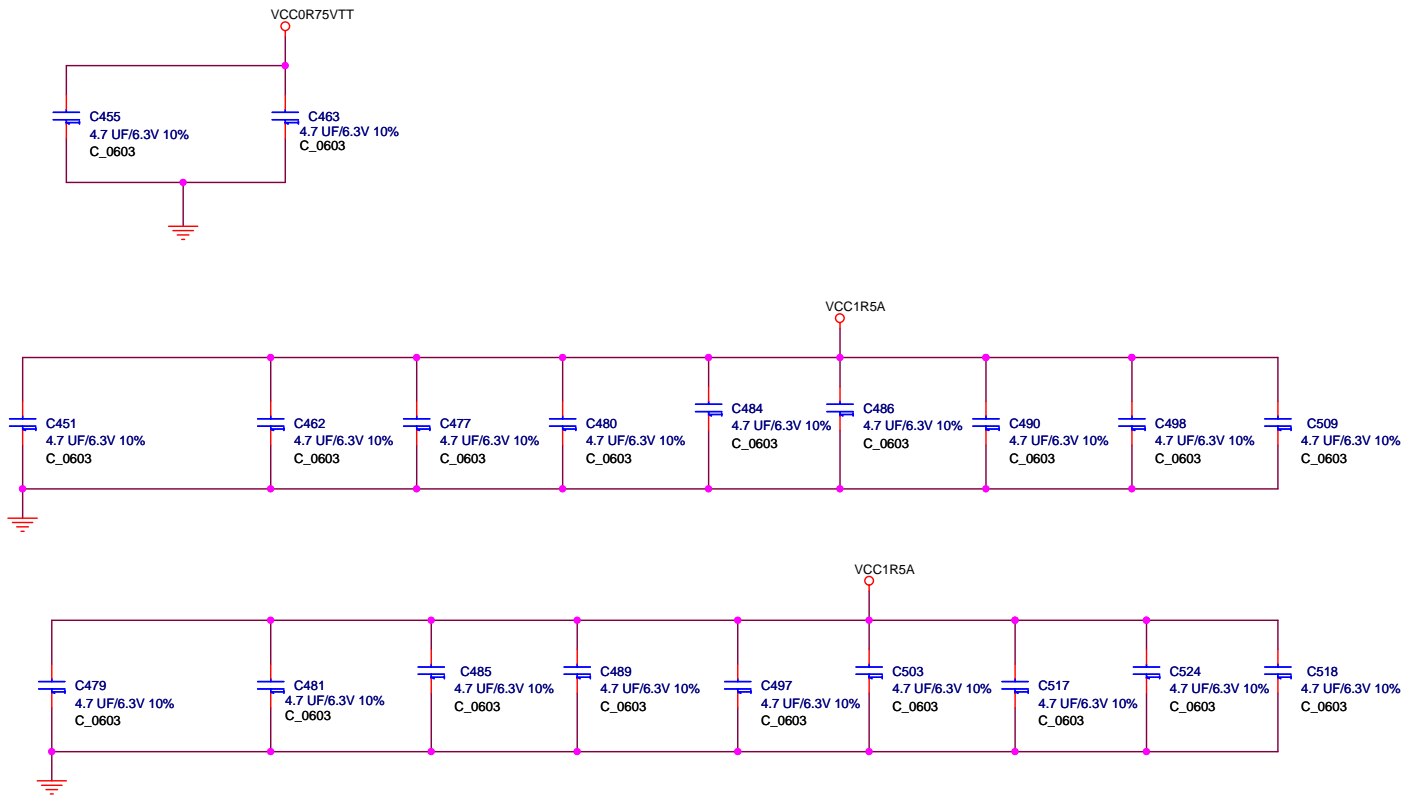


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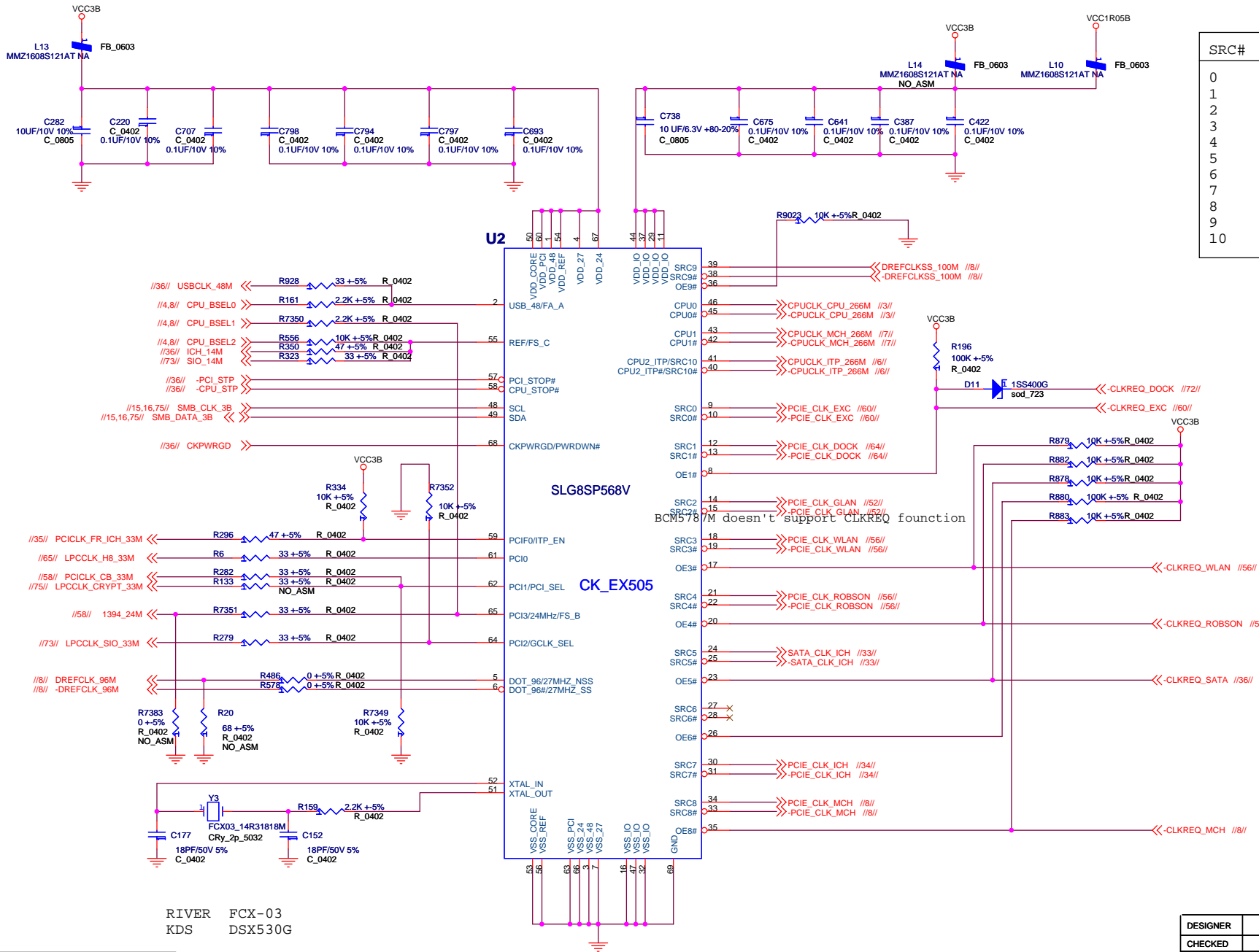
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LENOVO CONFIDENTIAL		CANTIGA GND
		sheet 14 of 101 Tuesday, April 01, 2008





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		DDRIII DECOUPLING
LENOVO CONFIDENTIAL		sheet 17 of 101 Tuesday, April 01, 2008

PLACE AT LEAST 1 CAP FOR EACH VDD PINS



SRC#	OE#	DEVICE
0		EXPRESS CARD
1	OE#1	DOCK
2		GLAN
3	OE#3	WLAN
4	OE#4	ROBSON
5	OE#5	SATA
6	OE#6	RESERVED
7		ICH
8	OE#8	MCH
9	OE#9	INT GFX
10		ITP


FSC	FSB	FSA	CPU
BSEL2	BSEL1	BSEL0	
0	1	1	166M
0	1	0	200M
0	0	0	266M
1	0	0	333M

RIVER FCX-03
KDS DSX530G


IEEE1394	Support	No support
R7351	ASM	NO_ASM
R7383	NO_ASM	ASM

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LENOVO CONFIDENTIAL		CLOCK
		sheet 18 of 101 Wednesday, April 23, 2008

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		TITLE: Waikiki3_INT SIT
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LENOVO CONFIDENTIAL		sheet 22 of 101 Tuesday, April 01, 2008


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LENOVO CONFIDENTIAL		sheet 24 of 101 Tuesday, April 01, 2008


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LENOVO CONFIDENTIAL		sheet 25 of 101
		Tuesday, April 01, 2008

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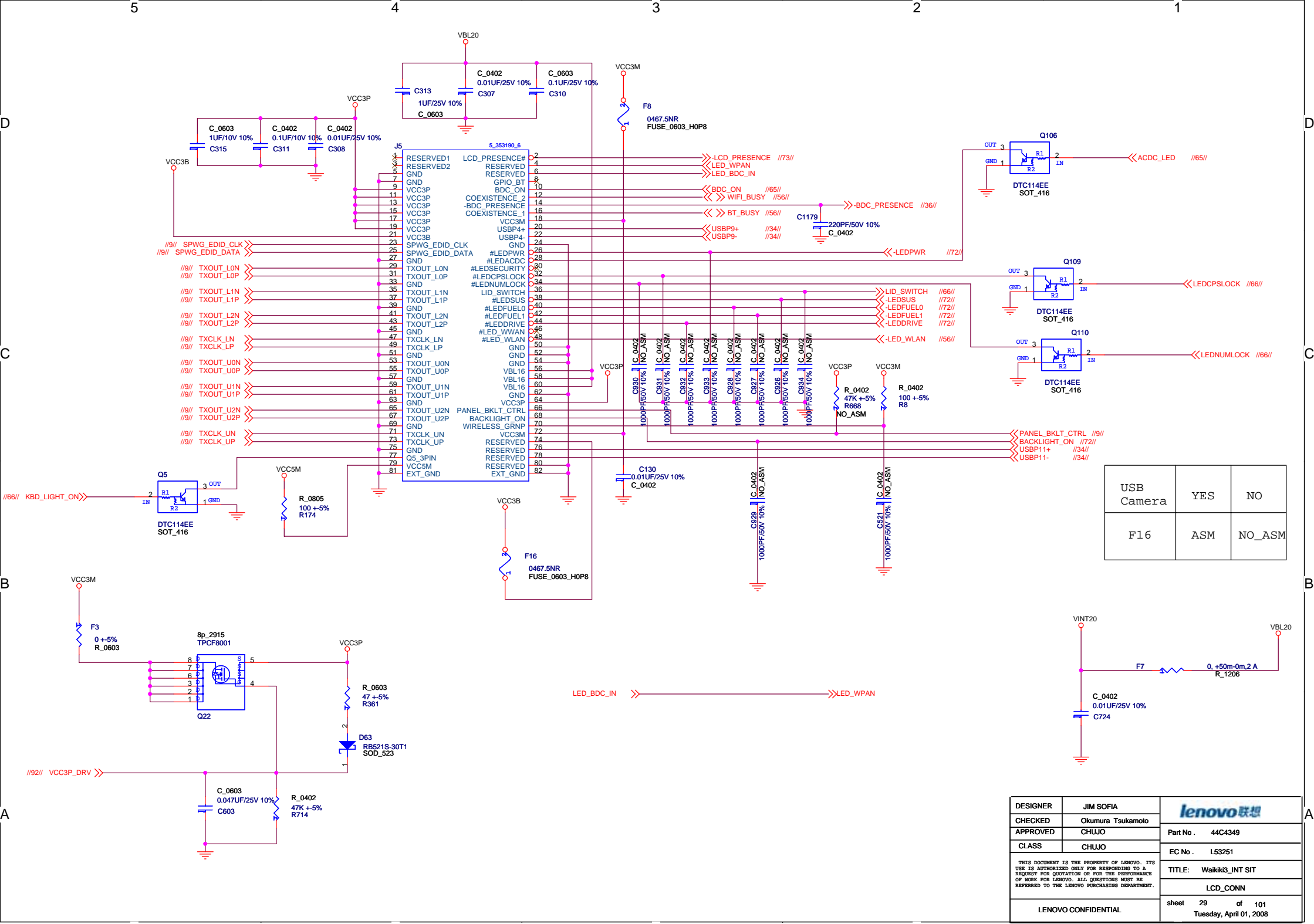
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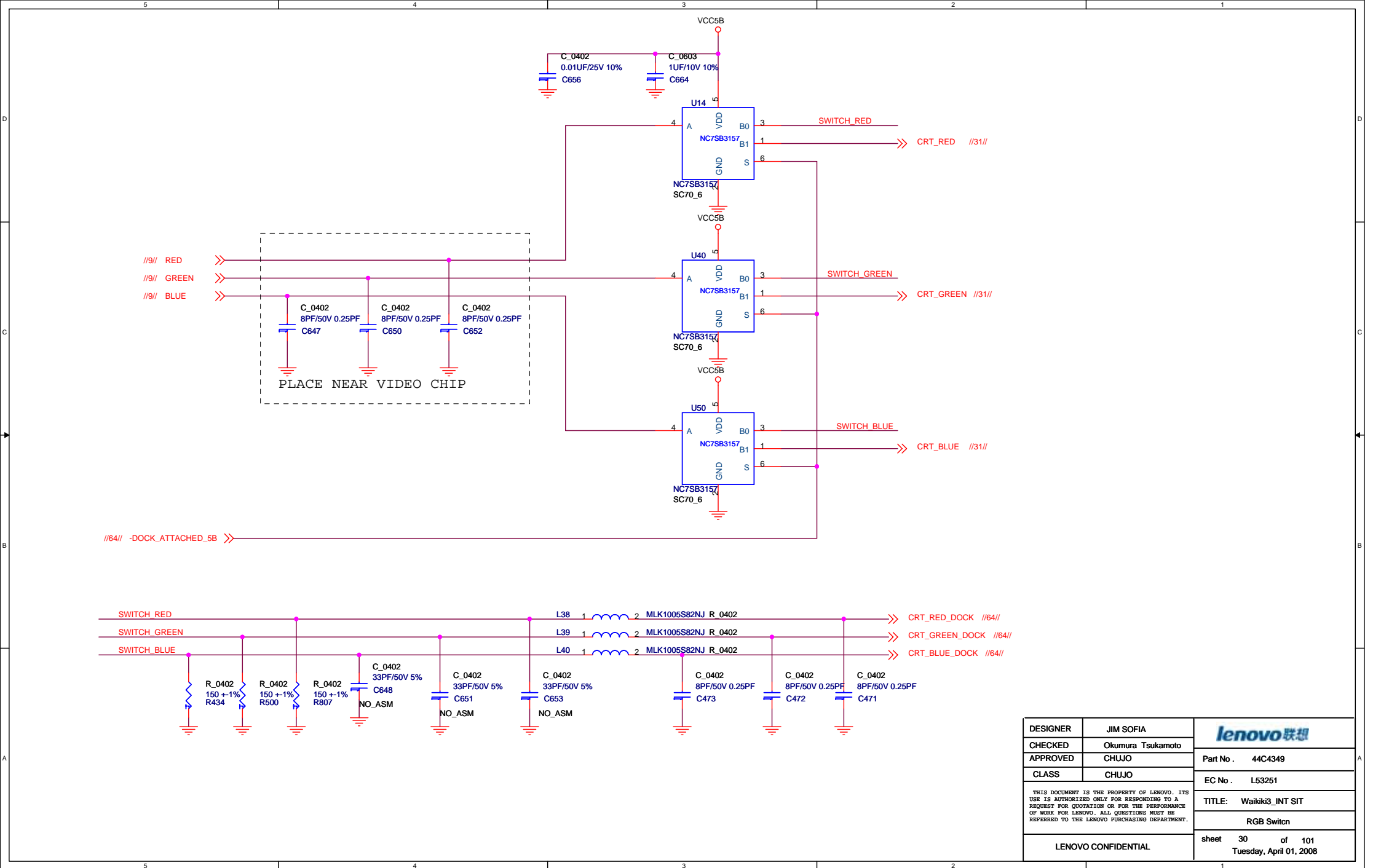
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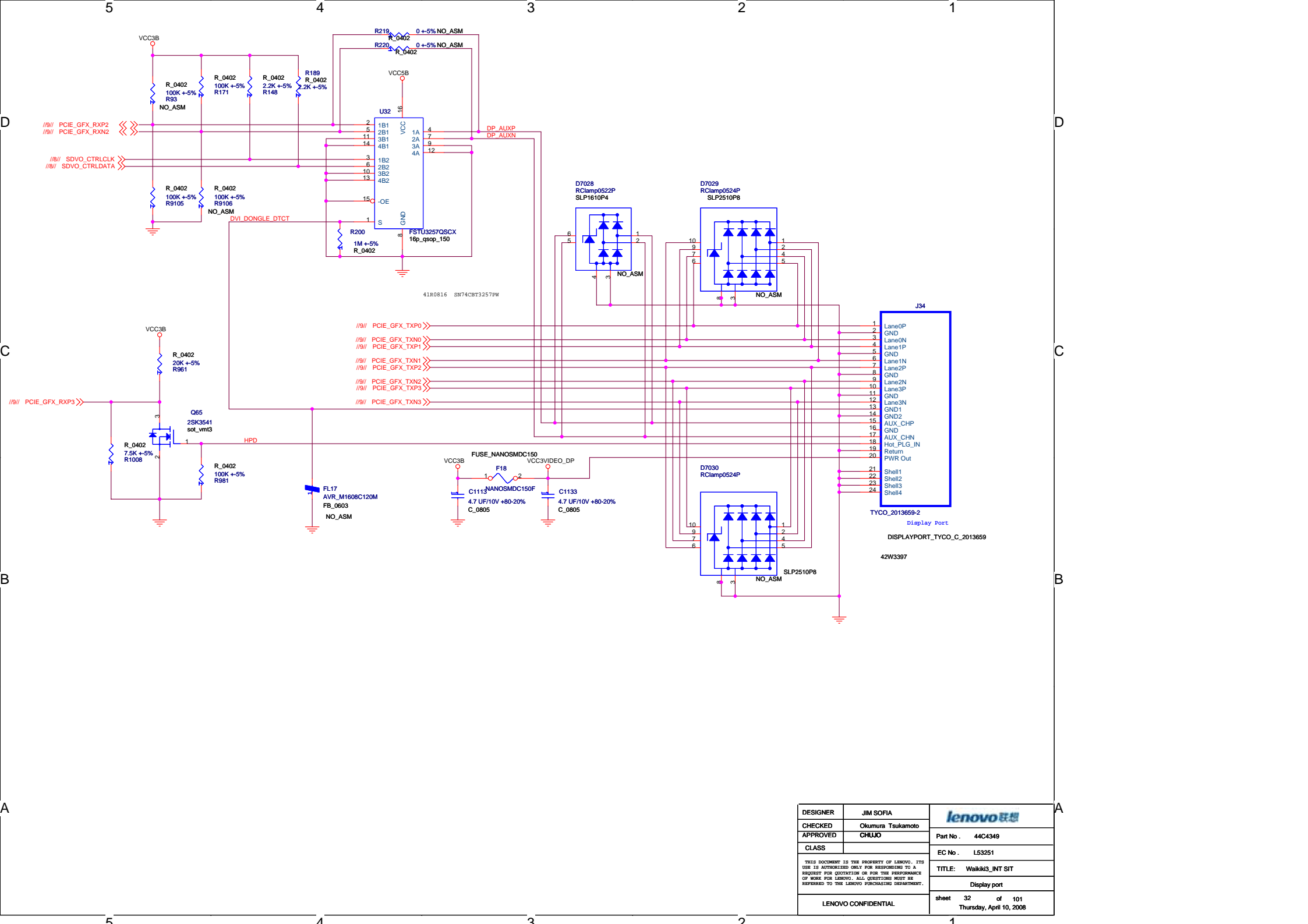
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LENOVO CONFIDENTIAL		sheet 27 of 101
		Tuesday, April 01, 2008

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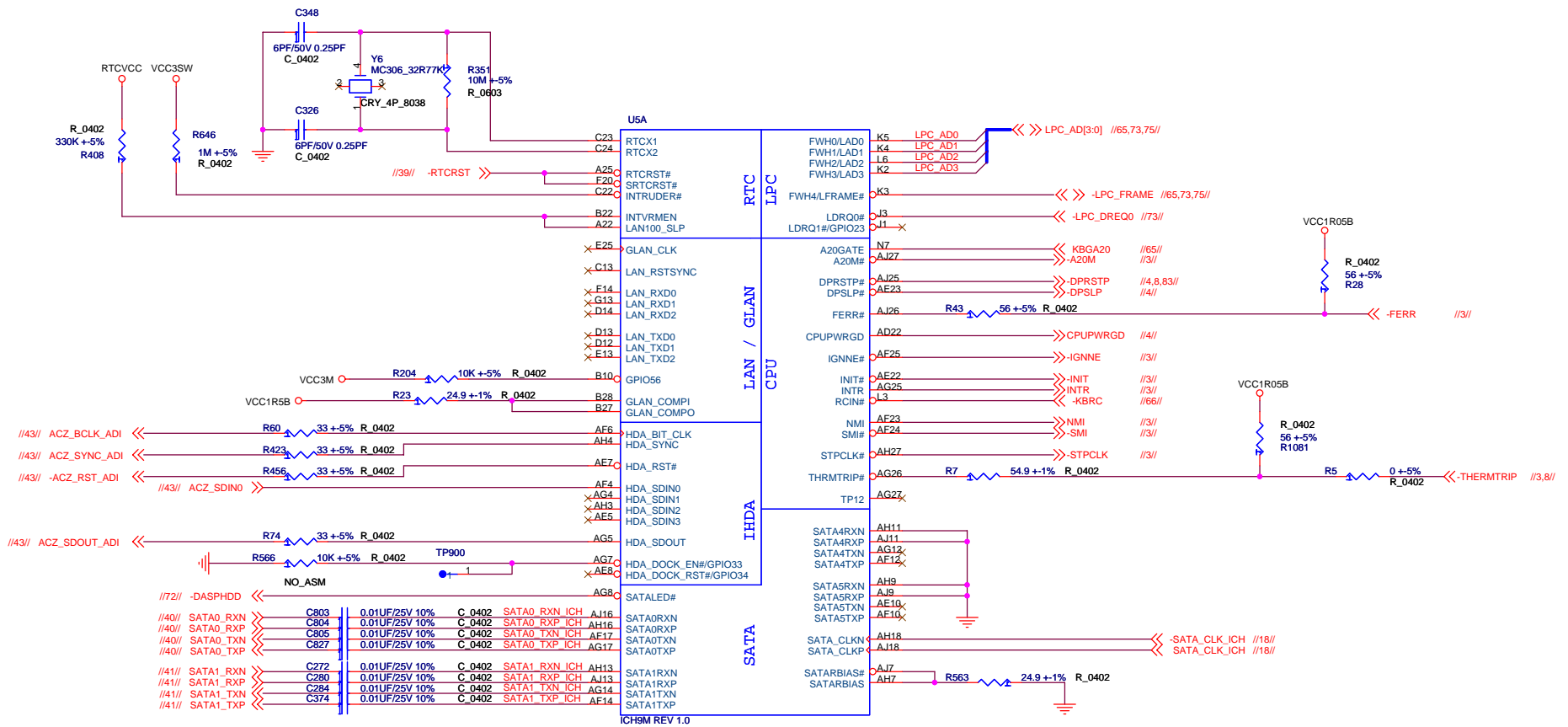
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		TITLE: Waikiki3_INT SIT
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LENOVO CONFIDENTIAL		sheet 28 of 101 Tuesday, April 01, 2008




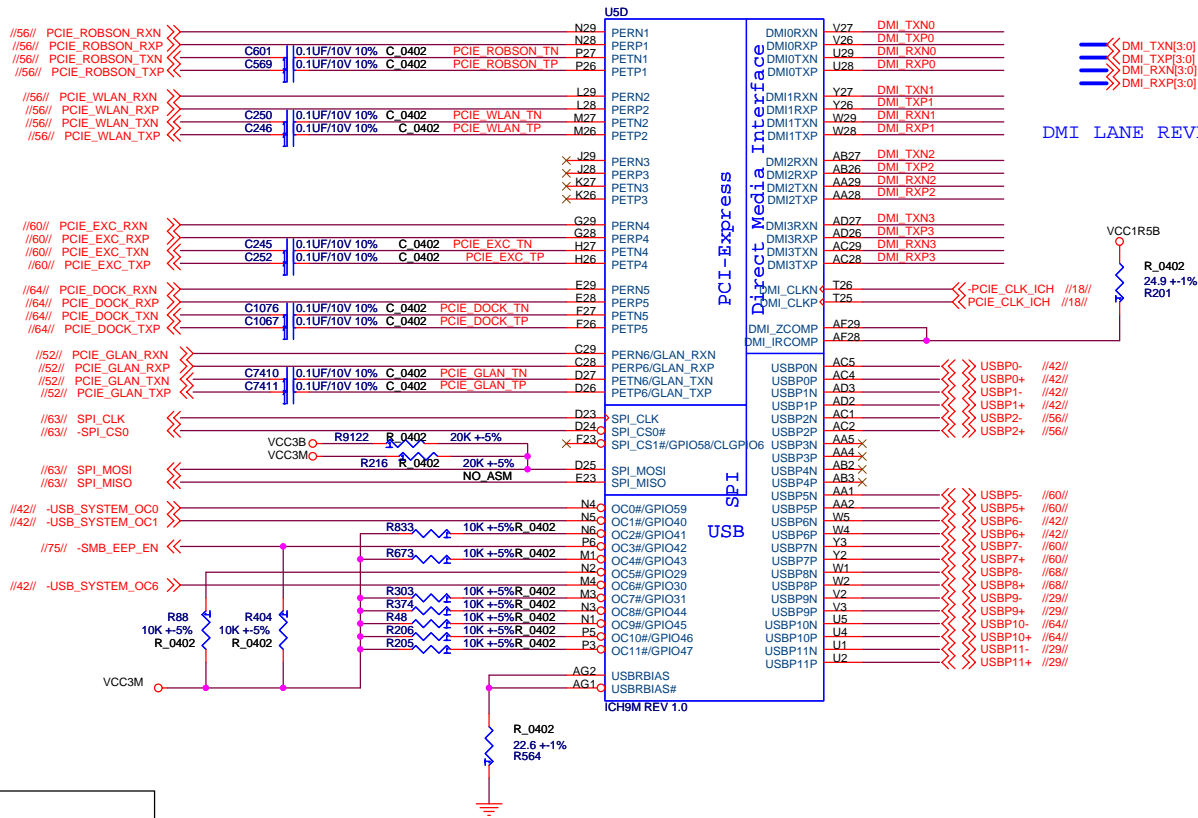




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		EC No . L53251
		TITLE: Waikiki_INT SIT
		Display port
		sheet 32 of 101
		Thursday, April 10, 2008



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		TITLE: Waikiki_3_INT SIT ICH9M-1
LENOVO CONFIDENTIAL		sheet 33 of 101 Tuesday, April 01, 2008




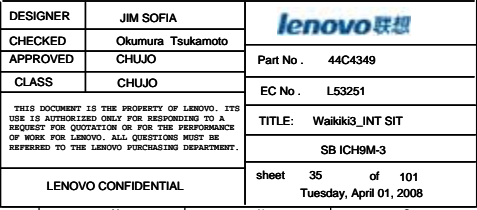
DMi LANE REVERSAL IS NOT APPLIED

USB Port	
0	: System Port 1
1	: System Port 2
2	: MINICARD Slot (WLAN)
3	: Reserved
4	: Reserved
5	: Smart Card (Cage)
6	: System Port 3
7	: Express Card (Cage)
8	: FPR (TouchPAD CONN)
9	: Bluetooth (LCD CONN)
10	: Docking
11	: USB Camera (LCD CONN)

SPI_MOSI

Pull Up: Enable iTPM
No Pull Up: Disable iTPM

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		EC No . L53251
		TITLE: Waikiki3_INT SIT
		SB ICH9M-2
LENOVO CONFIDENTIAL		sheet 34 of 101 Wednesday, April 23, 2008



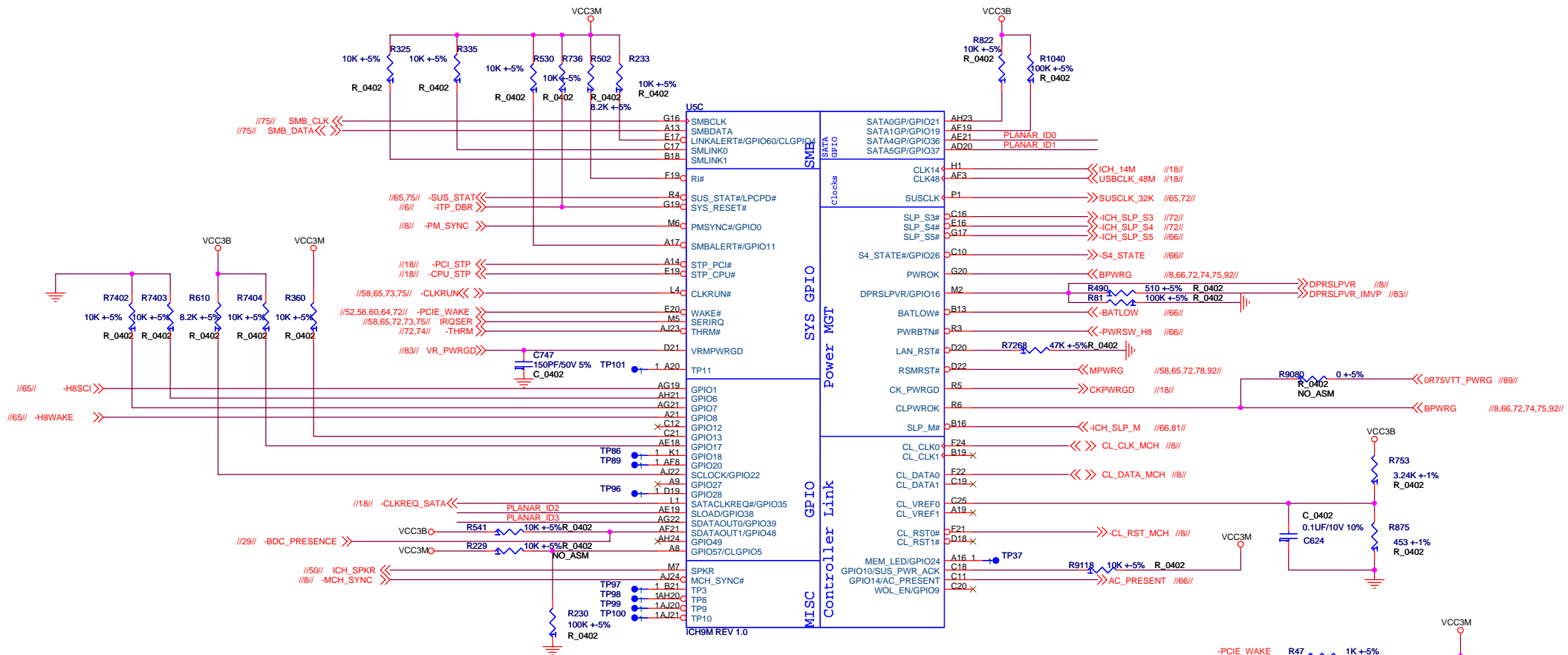
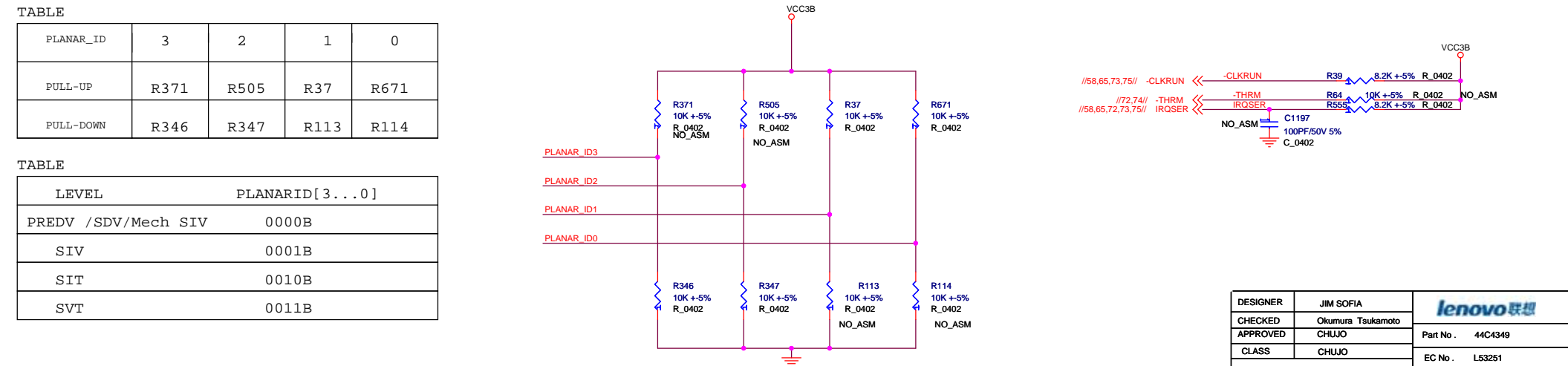
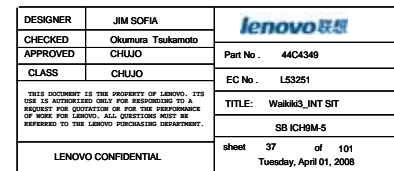


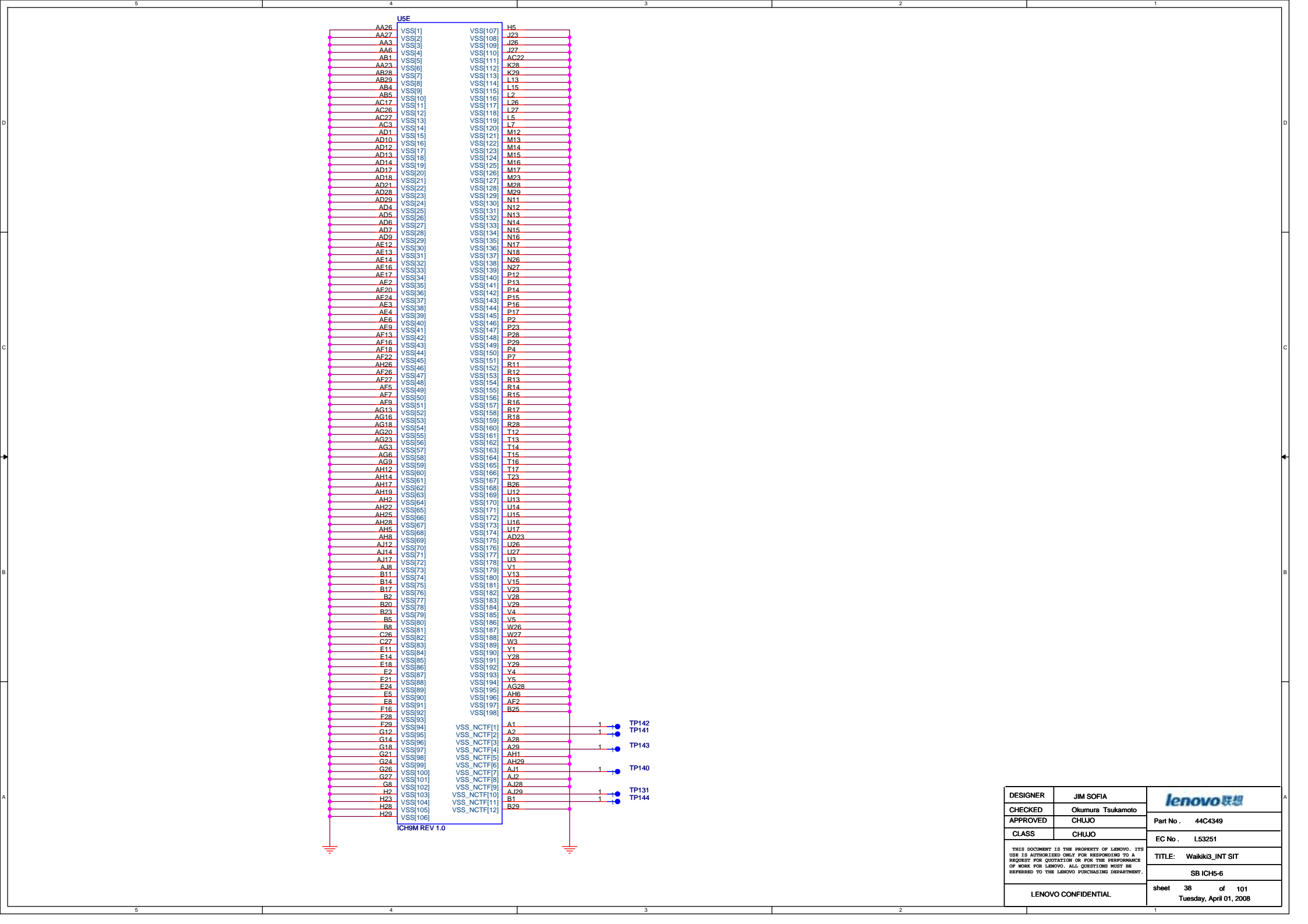
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PLANAR_ID	3	2	1	0
PULL-UP	R371	R505	R37	R671
PULL-DOWN	R346	R347	R113	R114


TABLE	
LEVEL	PLANARID[3...0]
PREDV /SDV/Mech SIV	0000B
SIV	0001B
SIT	0010B
SVT	0011B

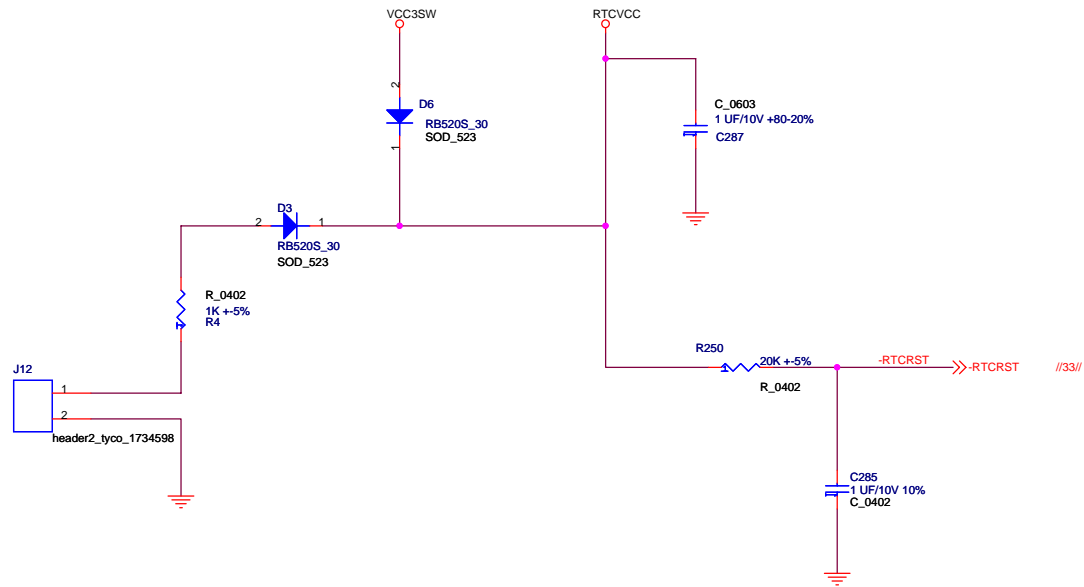


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		SB ICH9M-4
LENOVO CONFIDENTIAL		sheet 36 of 101 Tuesday, April 01, 2008

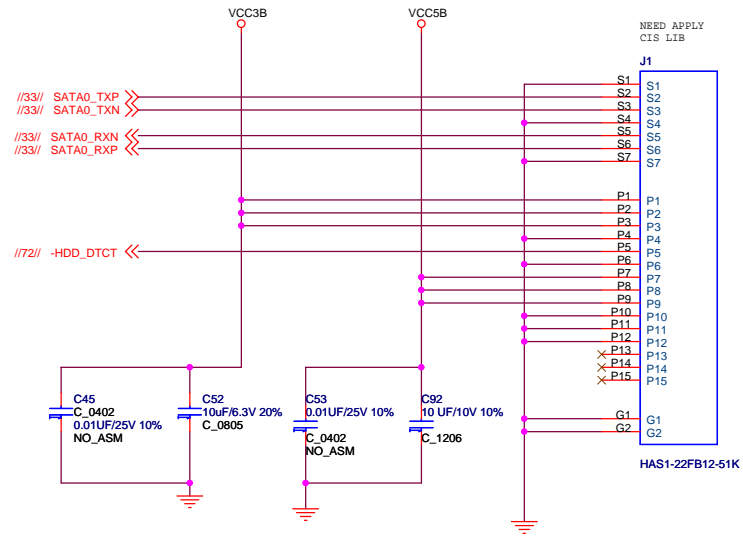




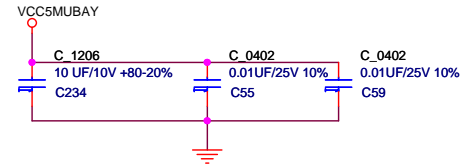
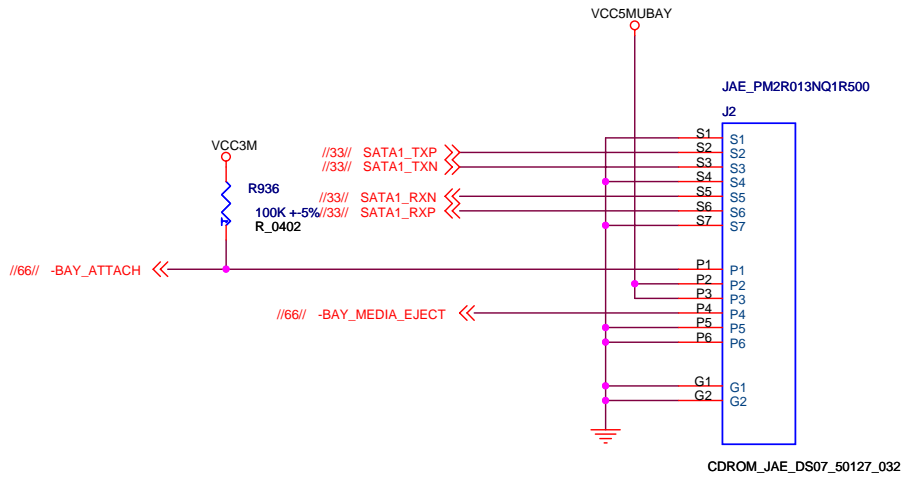
DESIGNER	JIM SOFIA	
CHECKED	Okumura Tsukamoto	
APPROVED	CHUJO	Part No . 44C4349
CLASS	CHUJO	EC No . L53251
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		SB ICH5-6
LENOVO CONFIDENTIAL		sheet 38 of 101 Tuesday, April 01, 2008




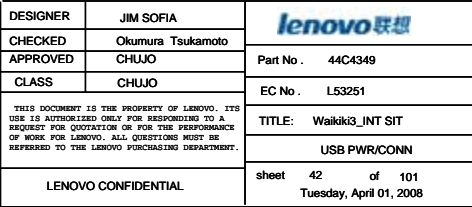
DESIGNER	JIM SOFIA	<div>lenovo联想</div> <div>Part No . 44C4349</div> <div>EC No . L53251</div> <div>TITLE: Waikiki3_INT SIT</div> <div>FWH,RTC BATTERY</div> <div>sheet 39 of 101</div> <div>Tuesday, April 01, 2008</div>
CHECKED	Okumura Tsukamoto	
APPROVED	CHUJO	
CLASS	CHUJO	
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CHECKED	Okumura Tsukamoto	
APPROVED	CHUJO	
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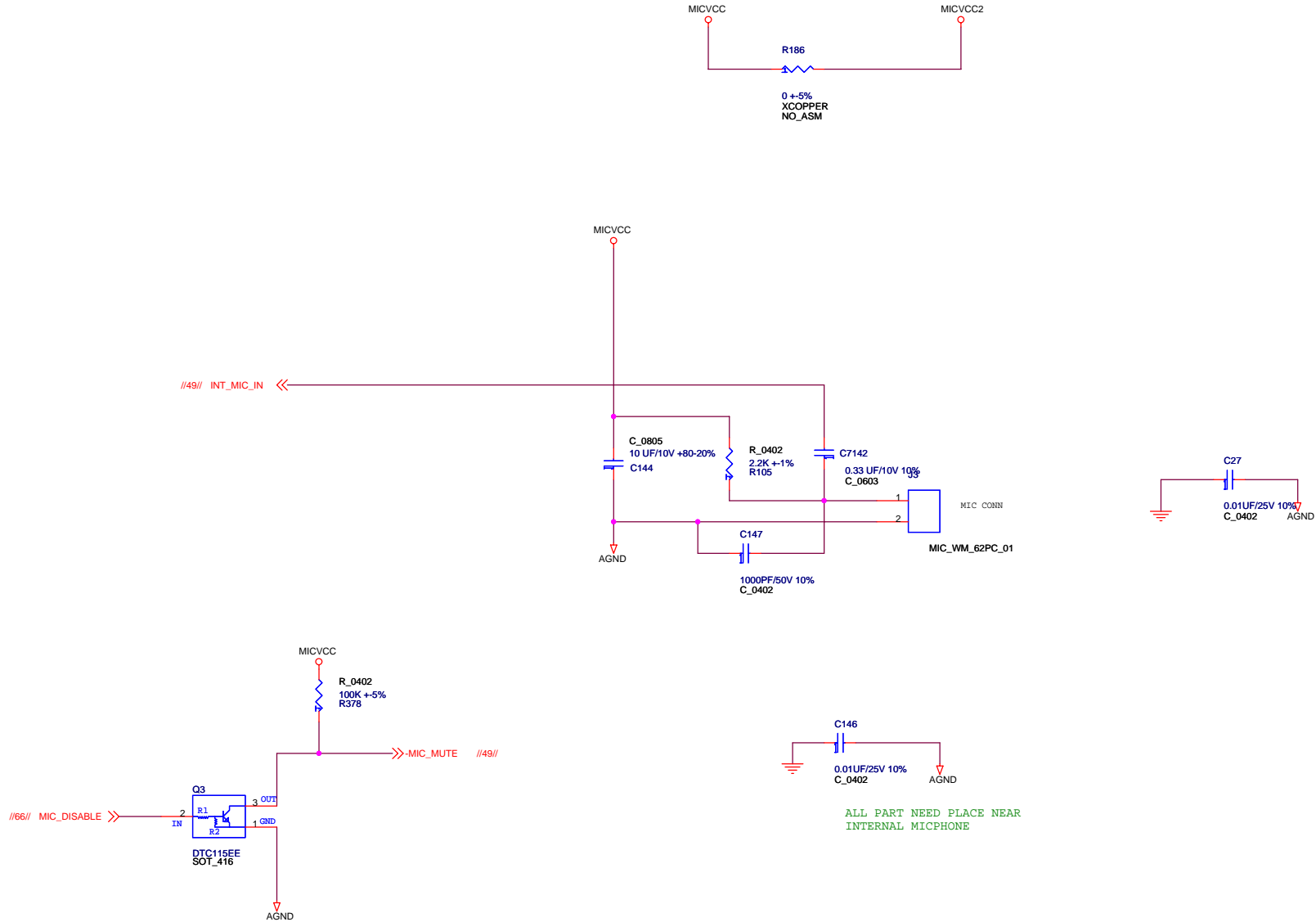
DESIGNER	JIM SOFIA	
CHECKED	Okumura Tsukamoto	
APPROVED	CHUJO	Part No . 44C4349
CLASS	CHUJO	EC No . L53251
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		BAY I/F CONN
LENOVO CONFIDENTIAL		sheet 41 of 101 Tuesday, April 01, 2008



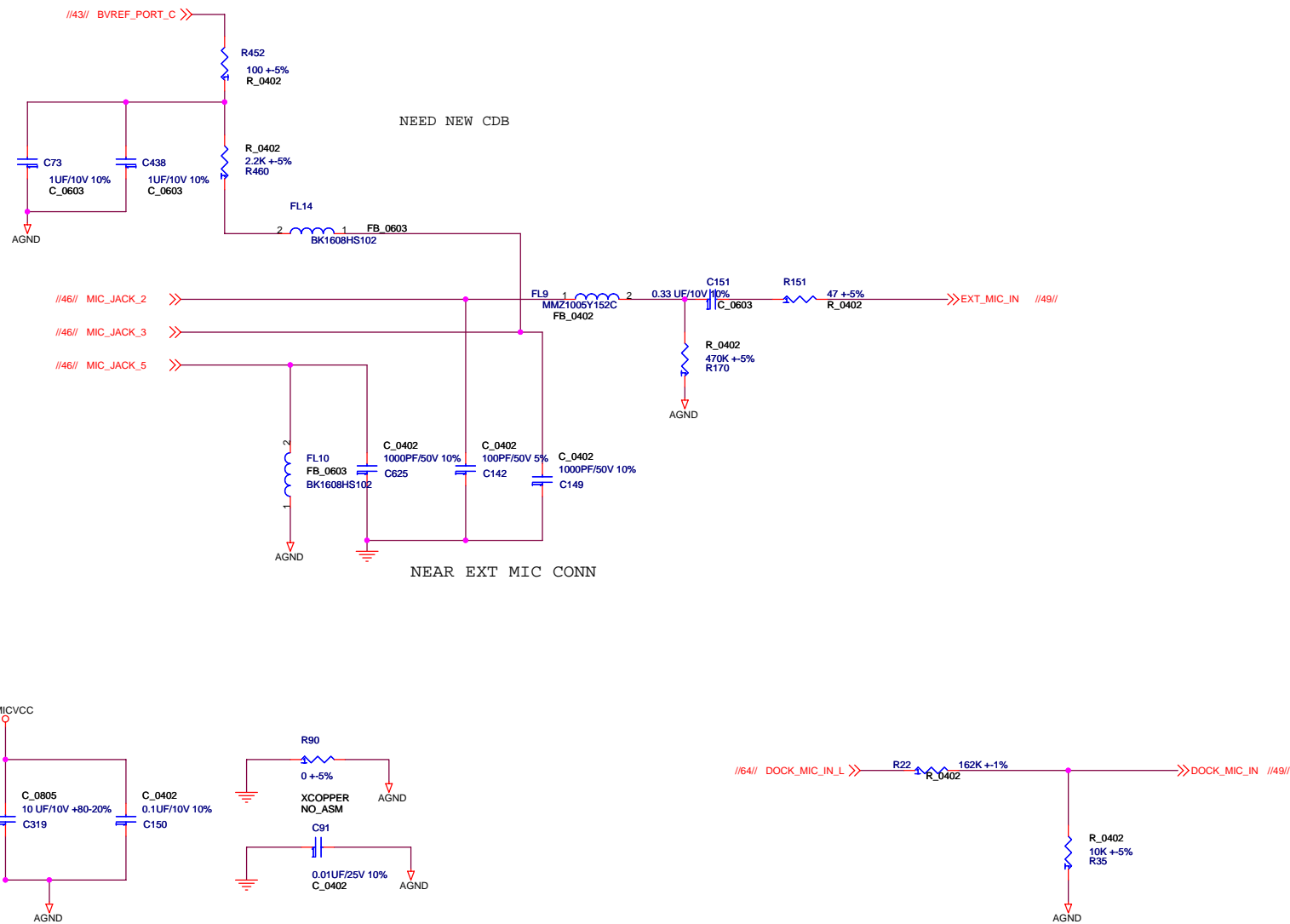
BAY	Swappable	Fixed
Q57	ASM	NO_ASM
R652	ASM	NO_ASM


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APPROVED	CHUJO	
CLASS	CHUJO	Part No . 44C4349
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		TITLE: Waikiki3_INT SIT
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LENOVO CONFIDENTIAL		sheet 44 of 101 Tuesday, April 01, 2008

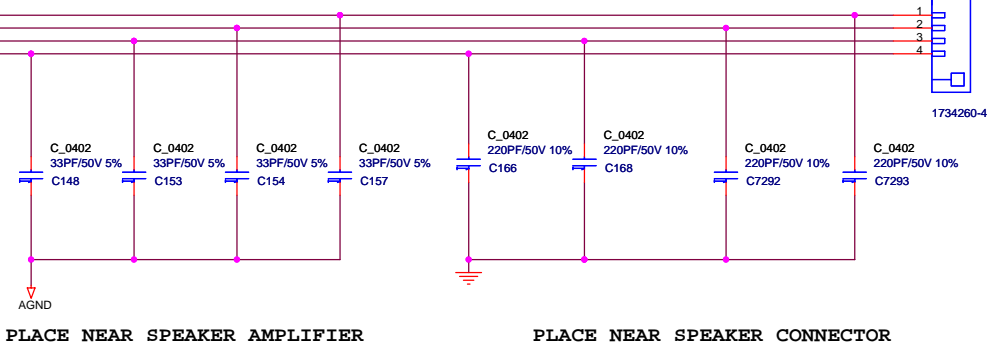


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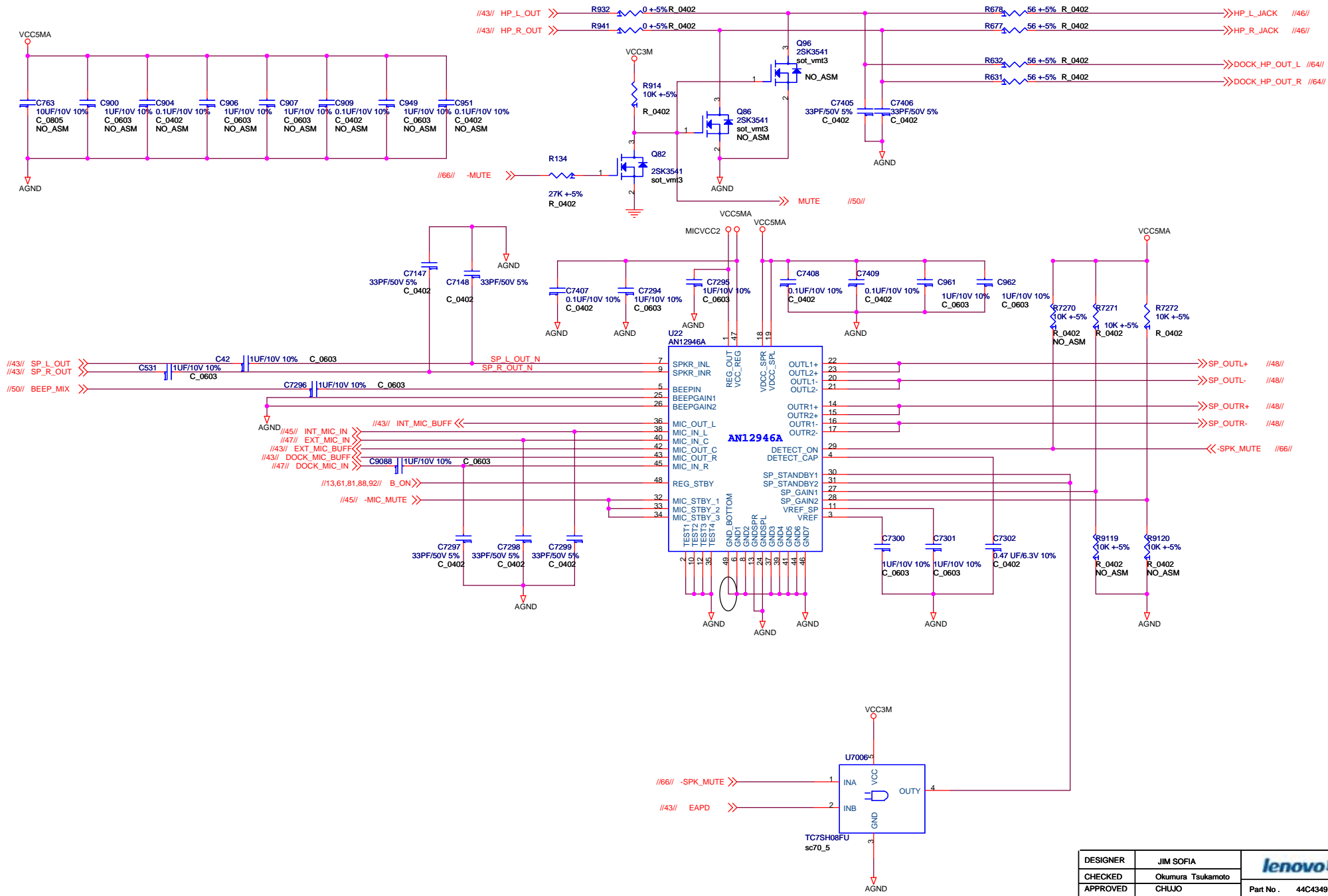


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APPROVED	CHUJO	Part No . 44C4349
CLASS	CHUJO	EC No . L53251
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LENOVO CONFIDENTIAL		AUDIO EXT MIC AMP
sheet 47 of 101		Wednesday, April 23, 2008

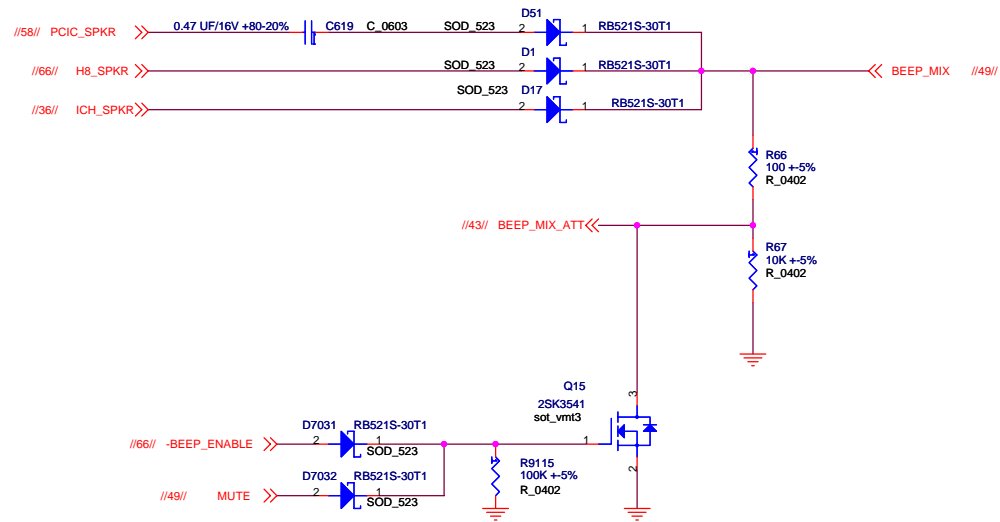
//49// SP_OUTR-
//49// SP_OUTR+
//49// SP_OUTL-
//49// SP_OUTL+



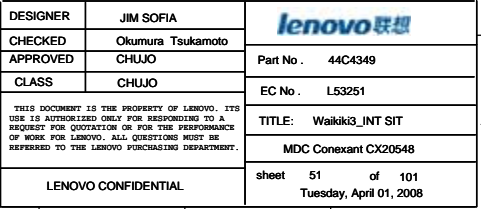
DESIGNER	JIM SOFIA	<div>lenovo联想</div> <div>Part No . 44C4349</div> <div>EC No . L53251</div> <div>TITLE: Waikiki3_INT SIT</div> <div>AUDIO SPEAKER</div> <div>sheet 48 of 101</div> <div>Tuesday, April 01, 2008</div>
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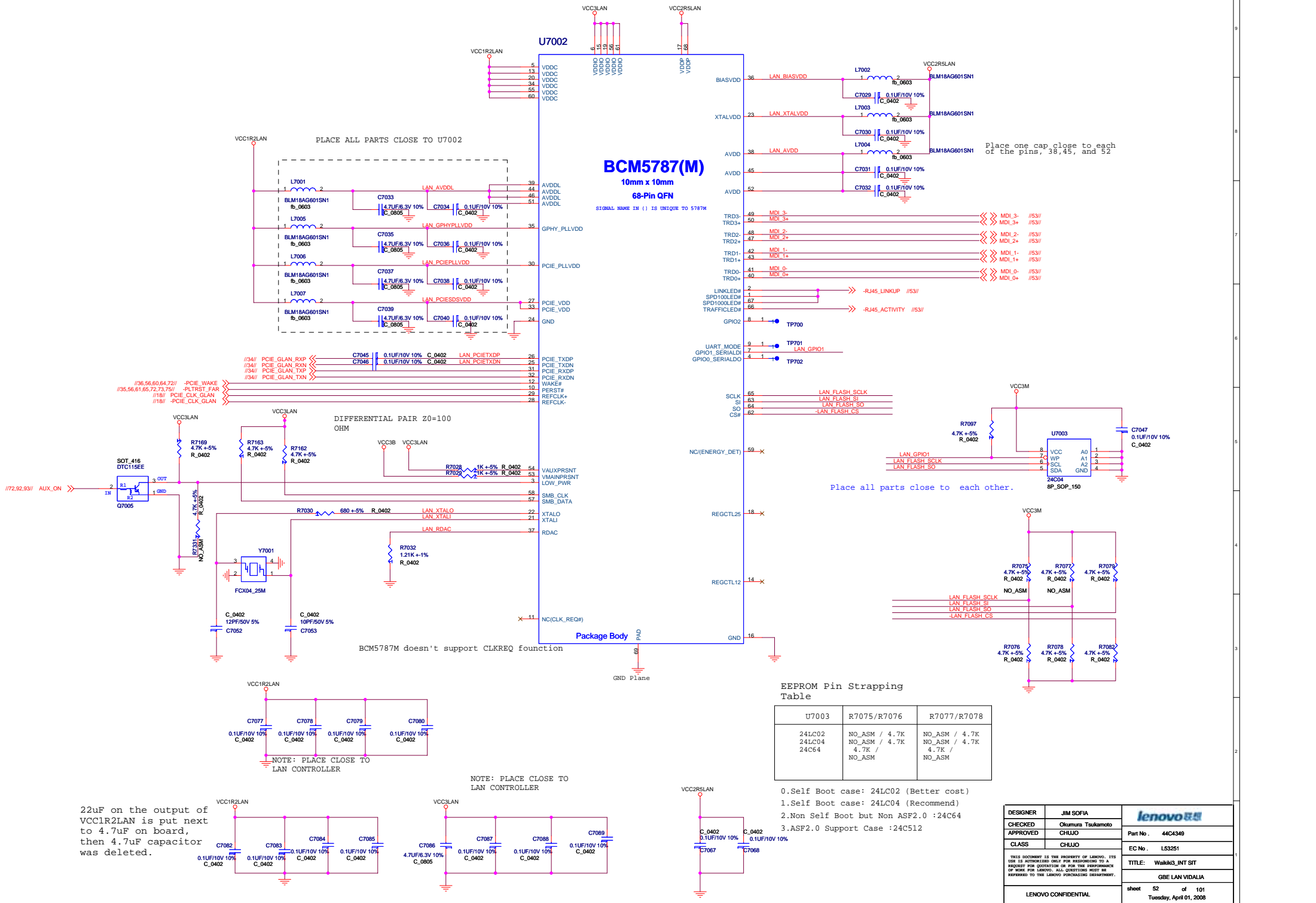


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CLASS	CHUJO	
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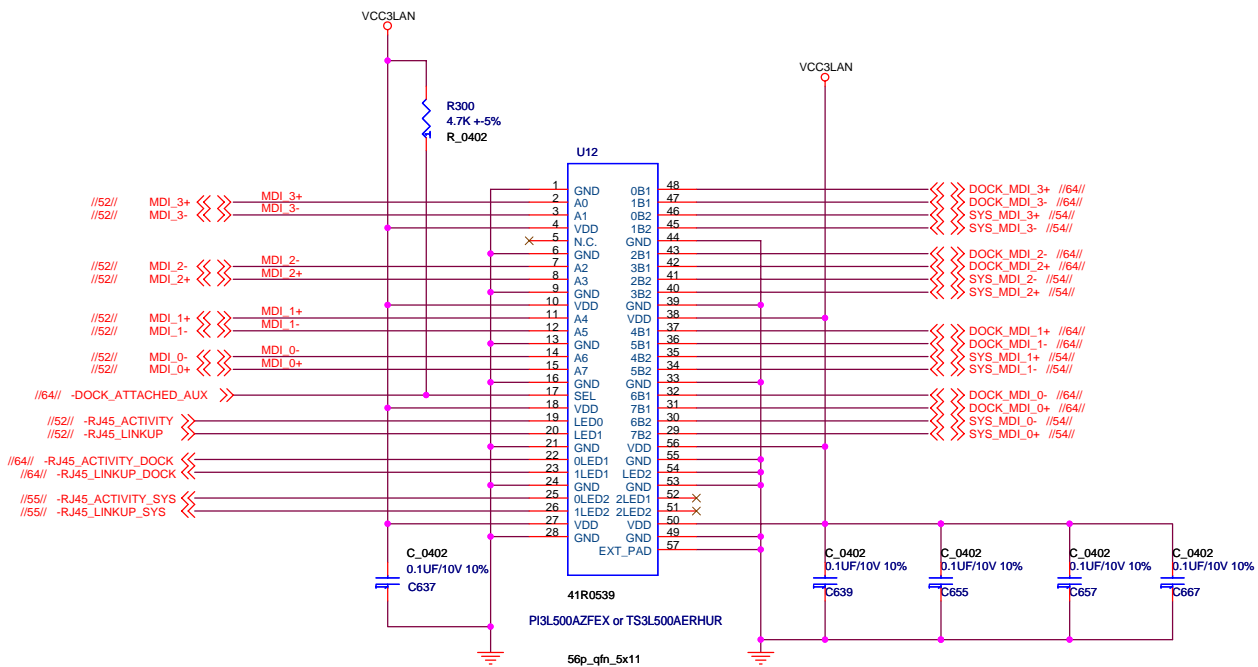
EEPROM Pin Strapping Table


U7003	R7075/R7076	R7077/R7078
24LC02	NO_ASM / 4.7K	NO_ASM / 4.7K
24LC04	NO_ASM / 4.7K	NO_ASM / 4.7K
24C64	4.7K / NO_ASM	4.7K / NO_ASM

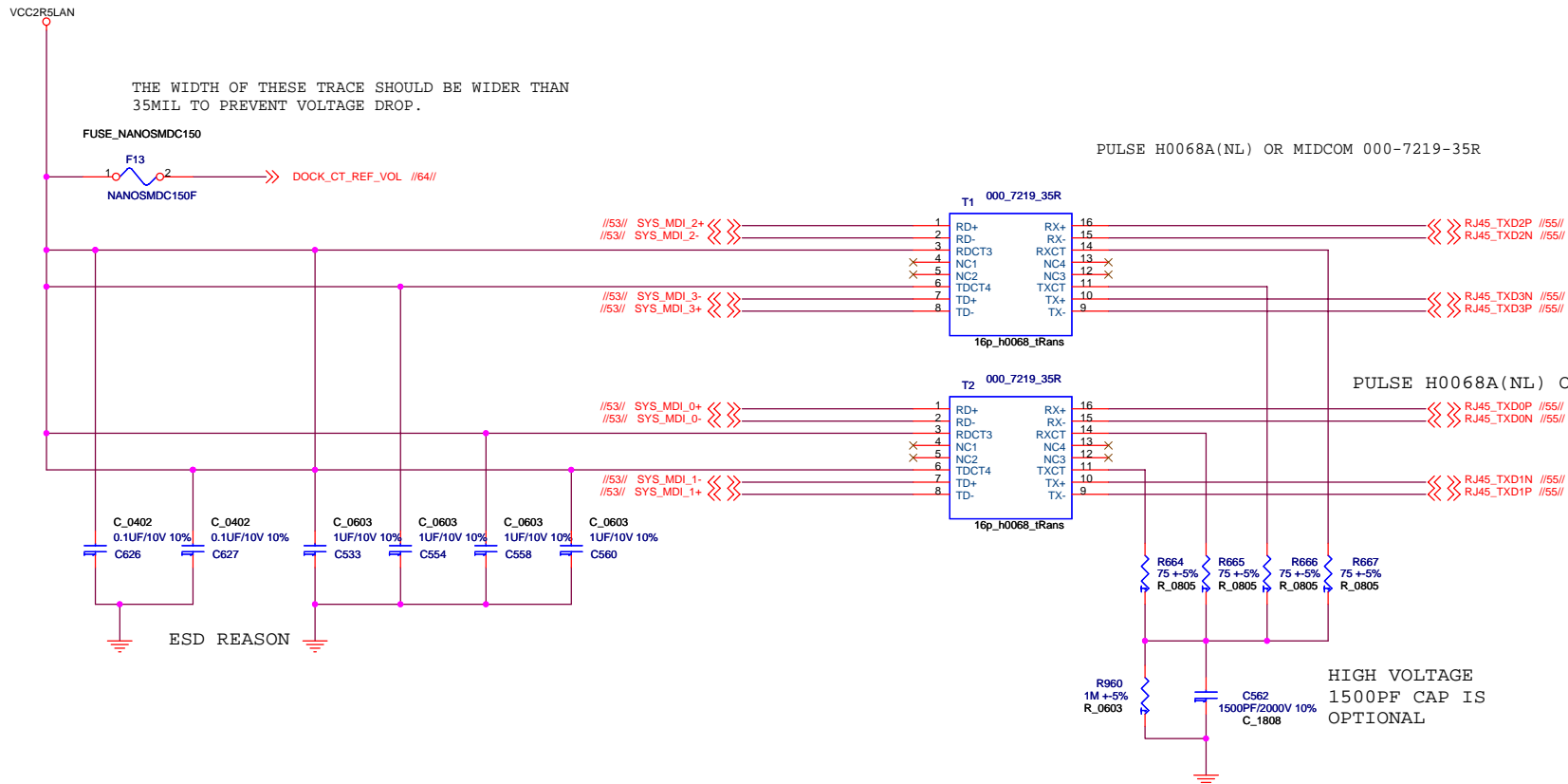
- Self Boot case: 24LC02 (Better cost)
- Self Boot case: 24LC04 (Recommend)
- Non Self Boot but Non ASF2.0 : 24C64
- ASF2.0 Support Case : 24C512

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APPROVED	CHUJO	Part No. 44C4349
CLASS	CHUJO	EC No. LS3251
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GBE LAN VIDALIA		
sheet 52 of 101 Tuesday, April 01, 2008		


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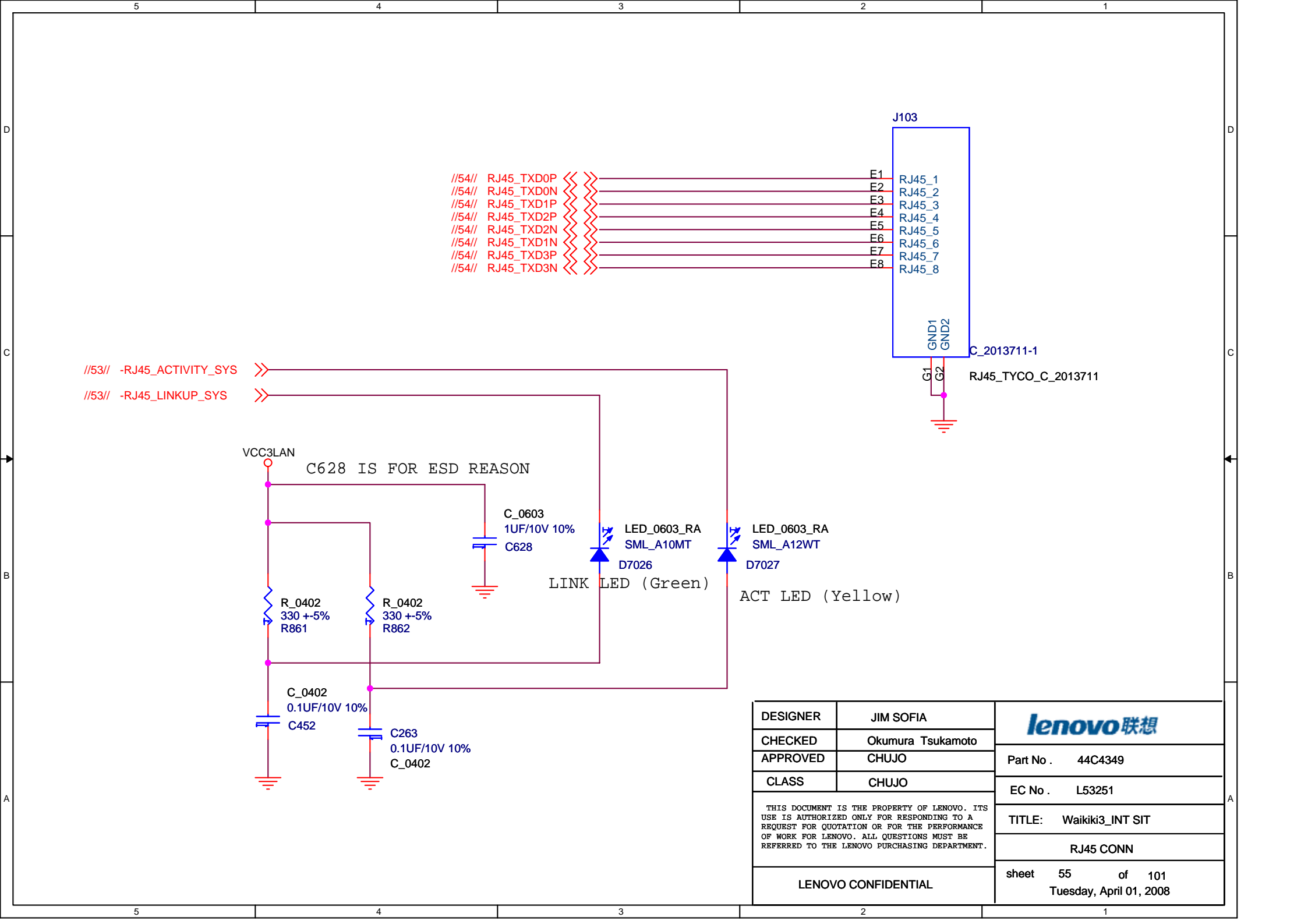


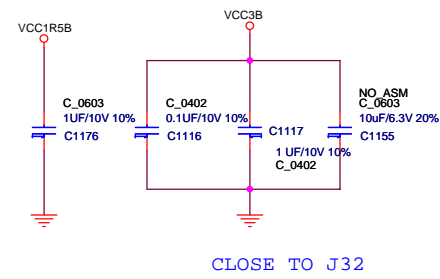
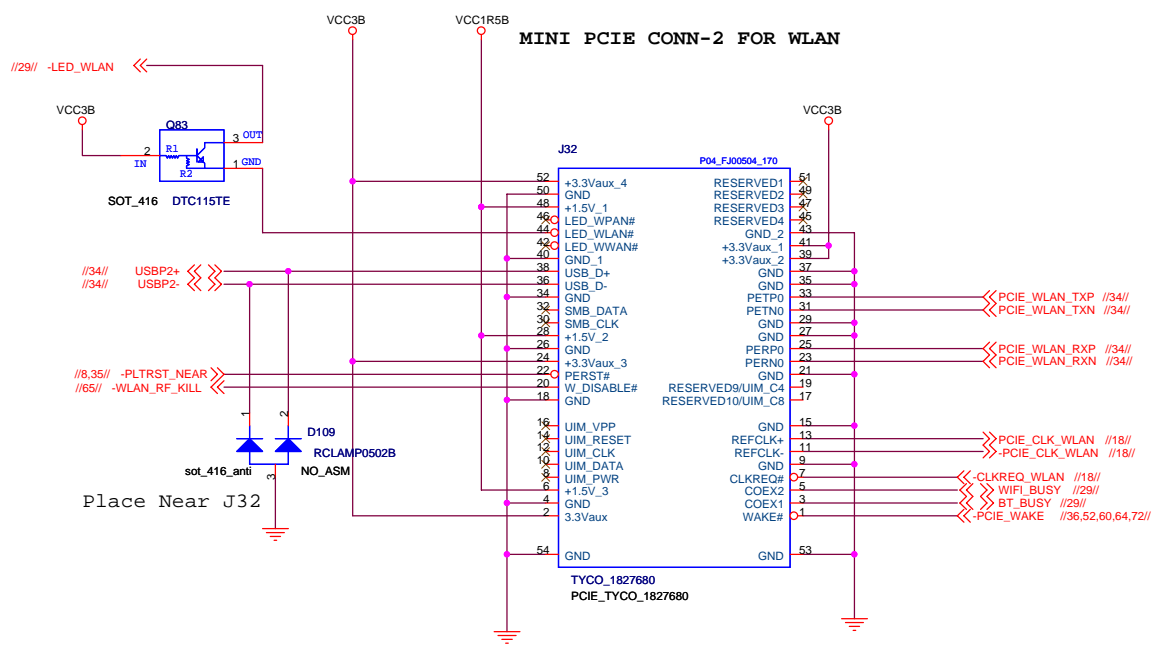
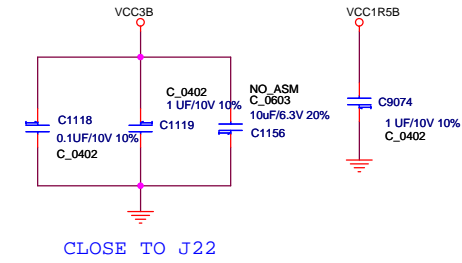
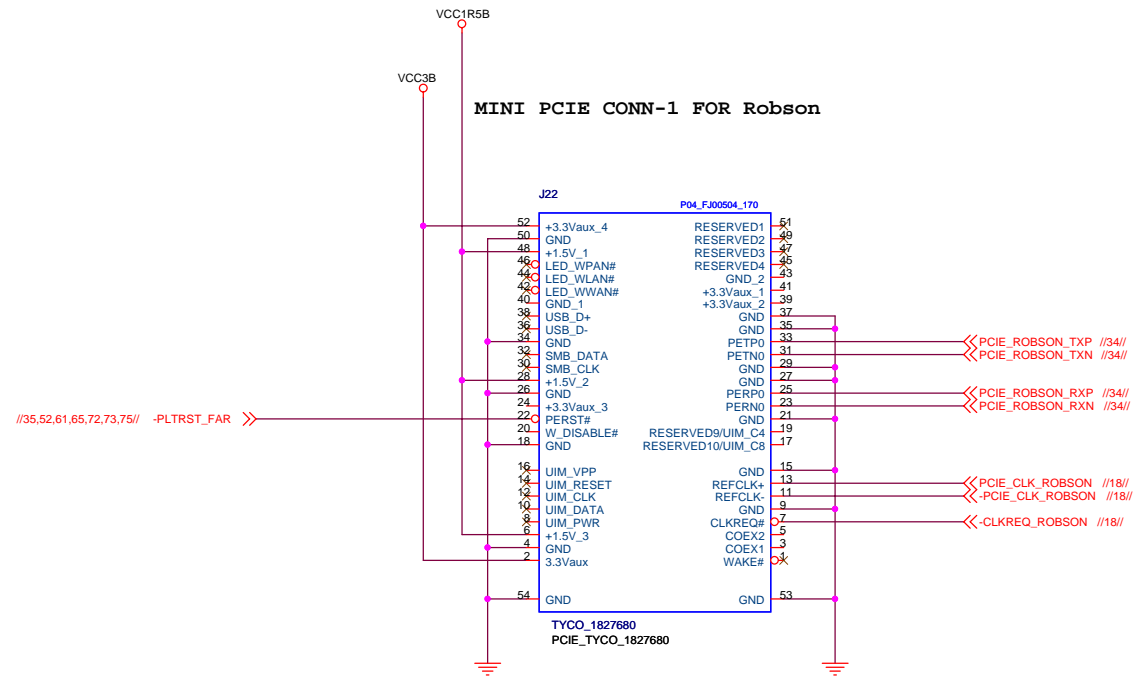
DESIGNER	JIM SOFIA	 Part No . 44C4349 EC No . L53251 TITLE: Waikiki3_JNT SIT GBE LAN SW sheet 53 of 101 Tuesday, April 01, 2008
CHECKED	Okumura Tsukamoto	
APPROVED	CHUJO	
CLASS	CHUJO	
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Pattern must be wide and short


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CLASS	CHUJO	
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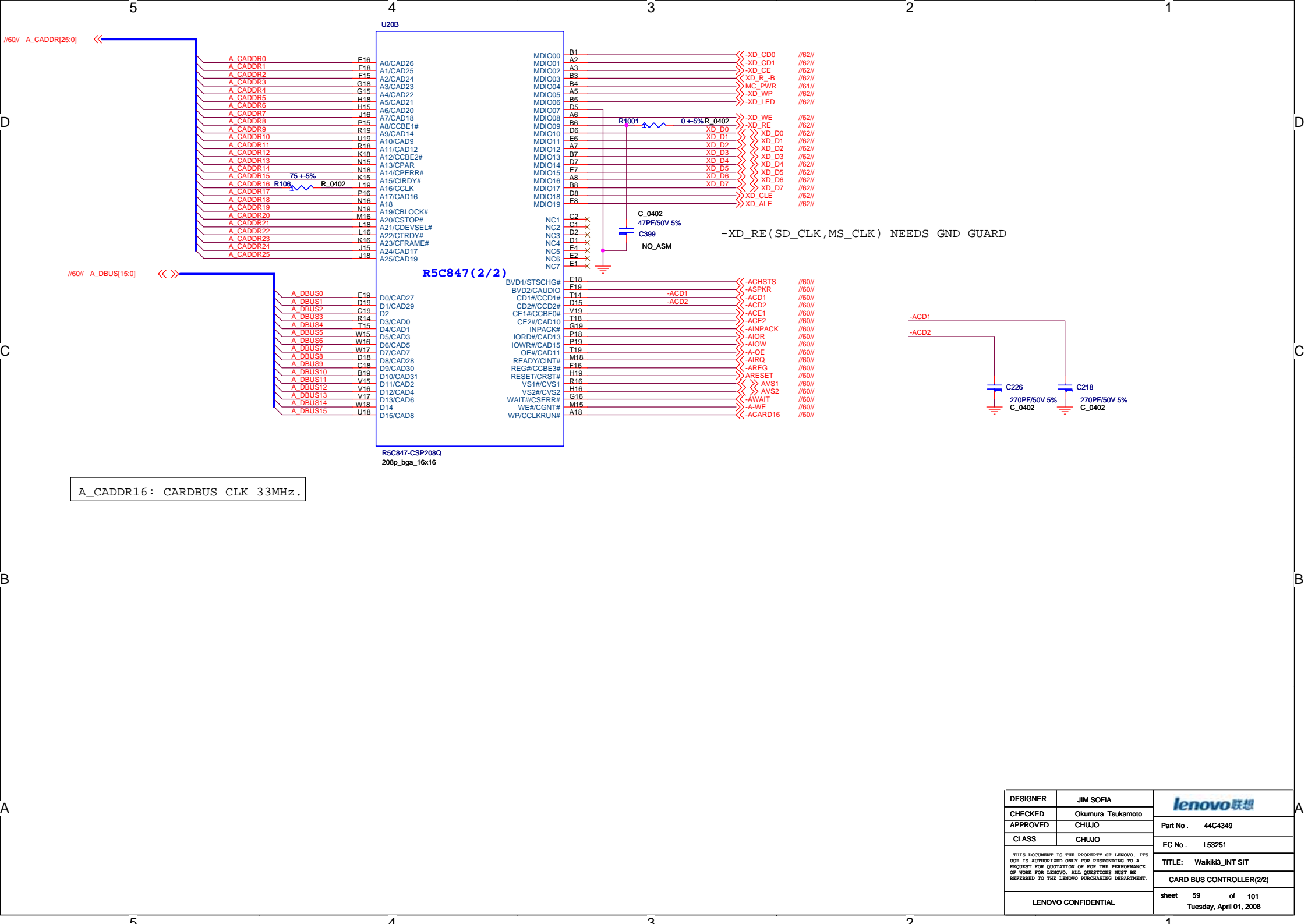
DESIGNER	JIM SOFIA	
CHECKED	Okumura Tsukamoto	
APPROVED	CHUJO	Part No . 44C4349
CLASS	CHUJO	EC No . L53251
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LENOVO CONFIDENTIAL		MICRO PCIE CONN
		sheet 56 of 101 Tuesday, April 01, 2008

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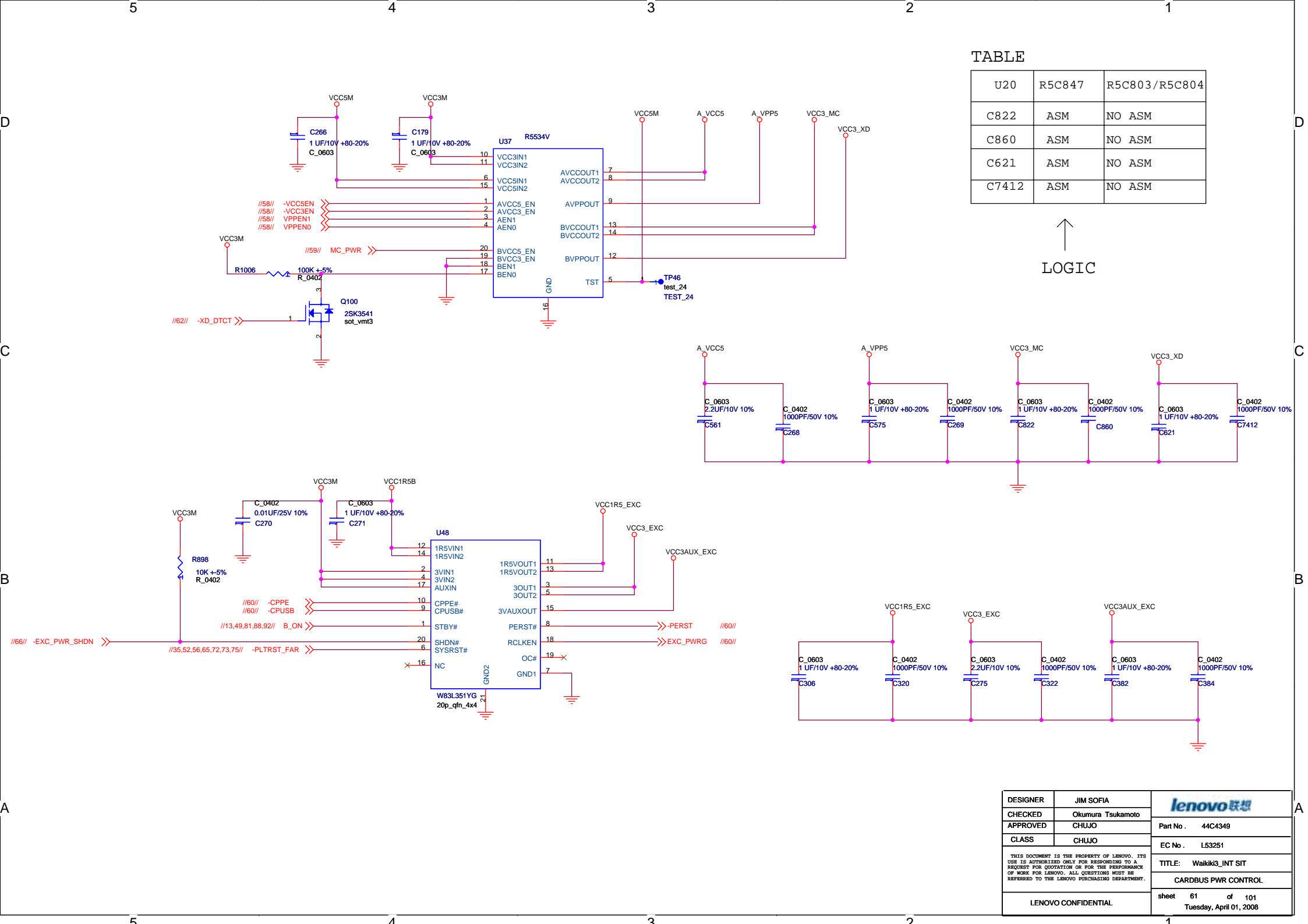
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CHECKED	Okumura Tsukamoto	
APPROVED	CHUJO	Part No . 44C4349
CLASS	CHUJO	EC No . L53251
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LENOVO CONFIDENTIAL		sheet 57 of 101
		Tuesday, April 01, 2008

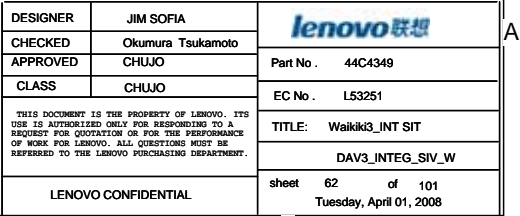


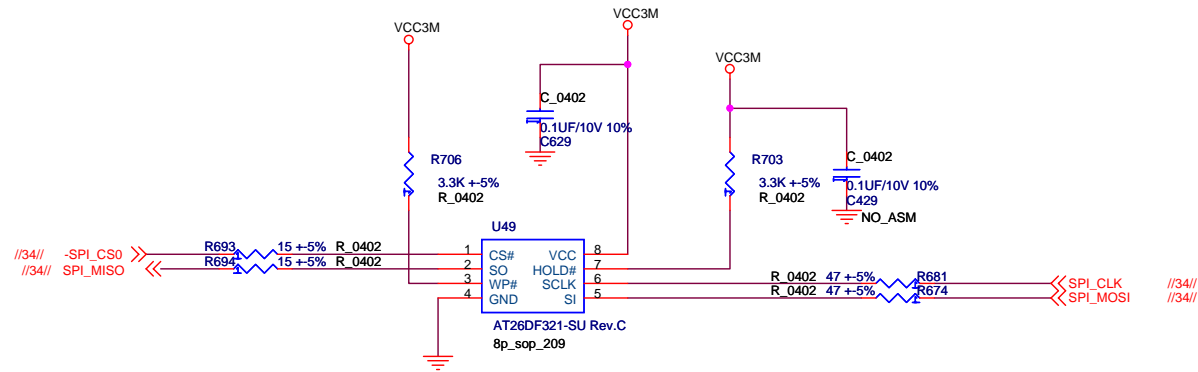
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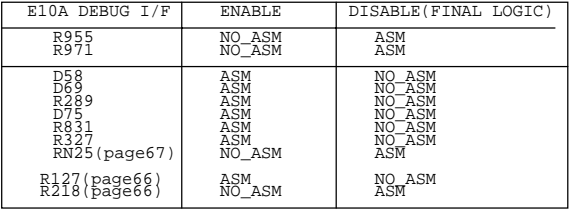
DESIGNER	JIM SOFIA	<div>lenovo联想</div> <div>Part No . 44C4349</div> <div>EC No . L53251</div> <div>TITLE: Waikiki3_INT SIT</div> <div>CARD BUS CONTROLLER(2/2)</div> <div>sheet 59 of 101</div> <div>Tuesday, April 01, 2008</div>
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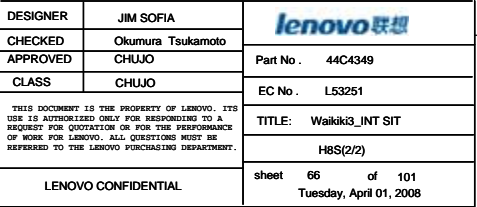


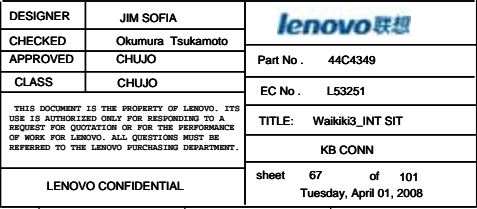


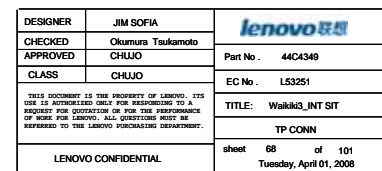
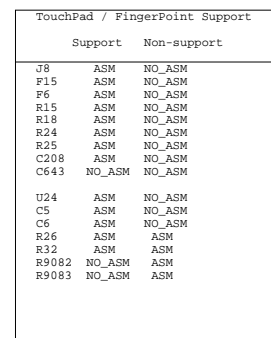
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		SPI FLASH
LENOVO CONFIDENTIAL		sheet 63 of 101 Tuesday, April 01, 2008

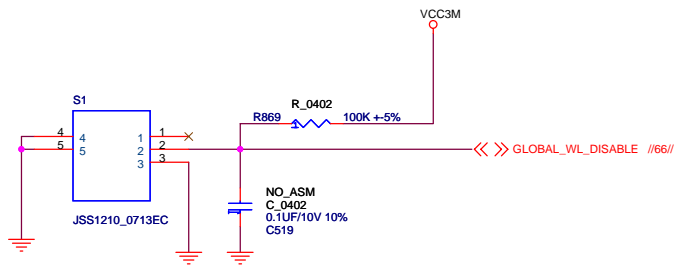



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LENOVO CONFIDENTIAL		sheet	65 of 101
		Tuesday, April 01, 2008	

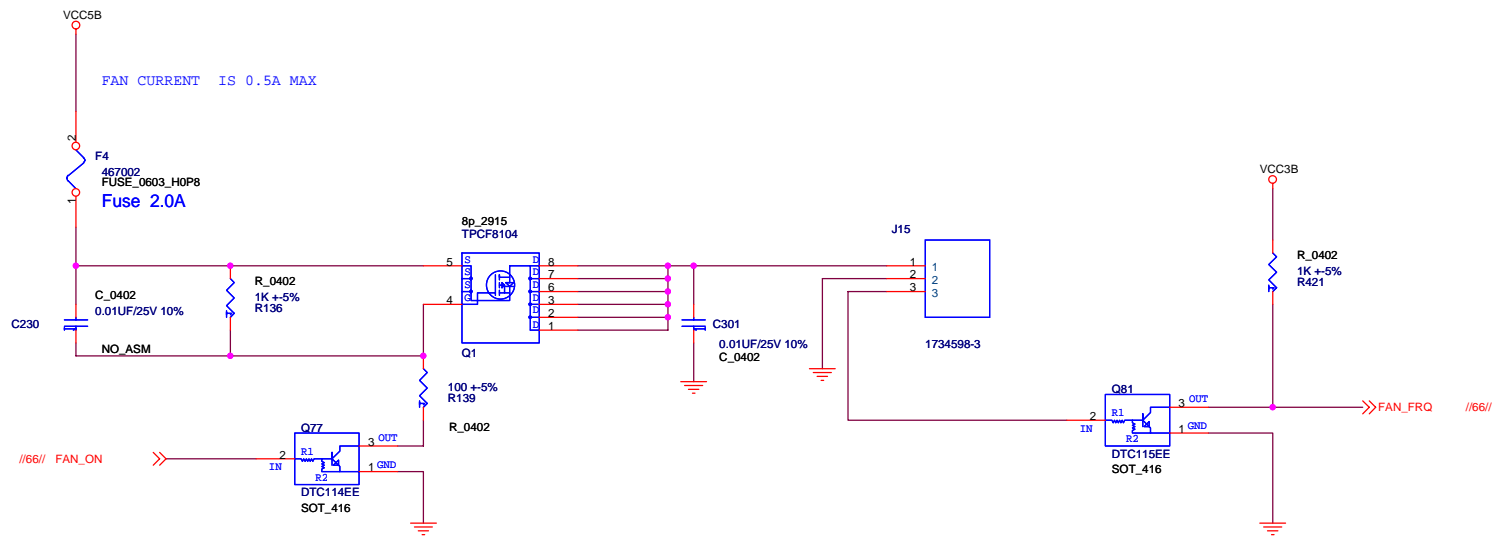





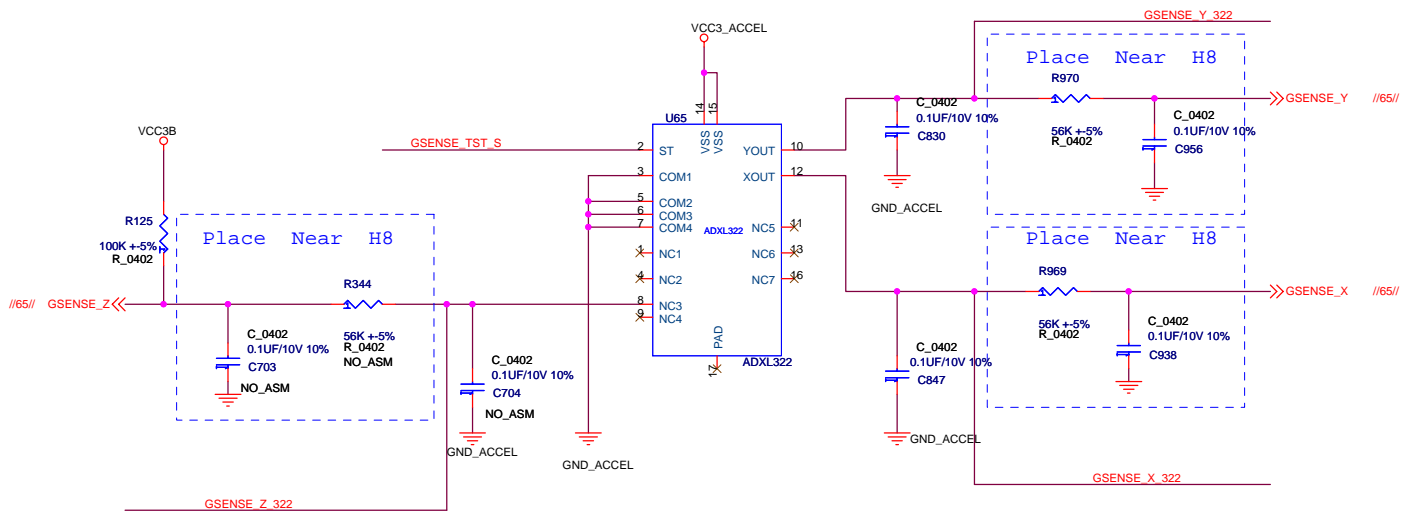
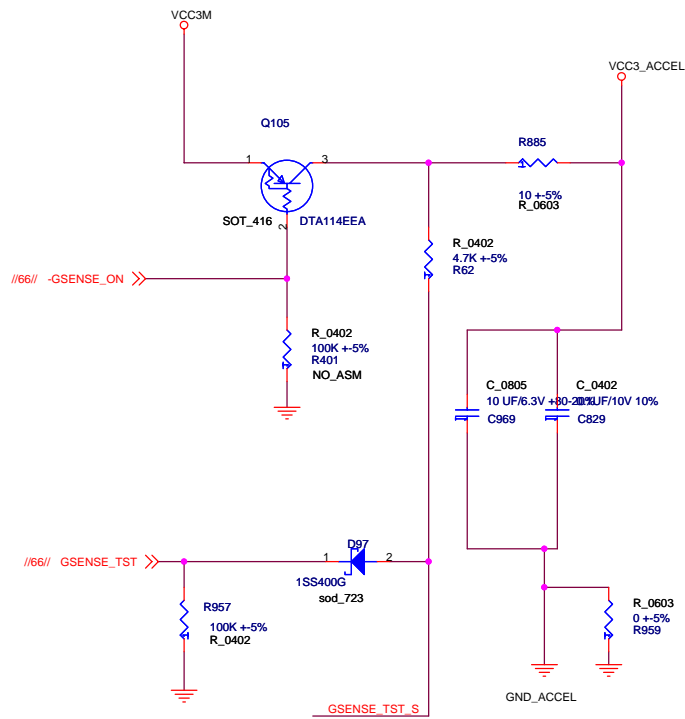




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		EC No . L53251
		TITLE: Waikiki3_INT SIT
		WIRELESS DISABLE SW
LENOVO CONFIDENTIAL		sheet 69 of 101 Tuesday, April 01, 2008

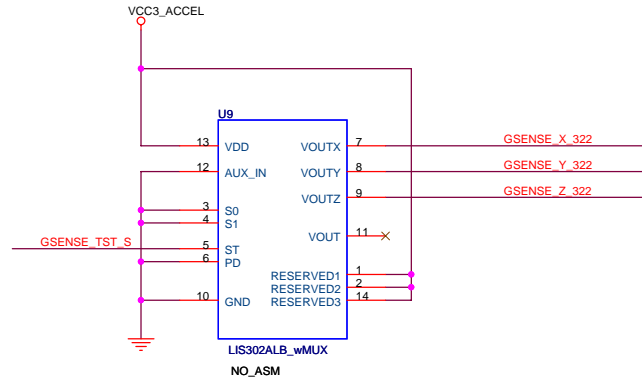



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LENOVO CONFIDENTIAL		FAN Connector
		sheet 70 of 101 Tuesday, April 01, 2008

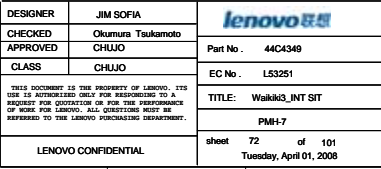


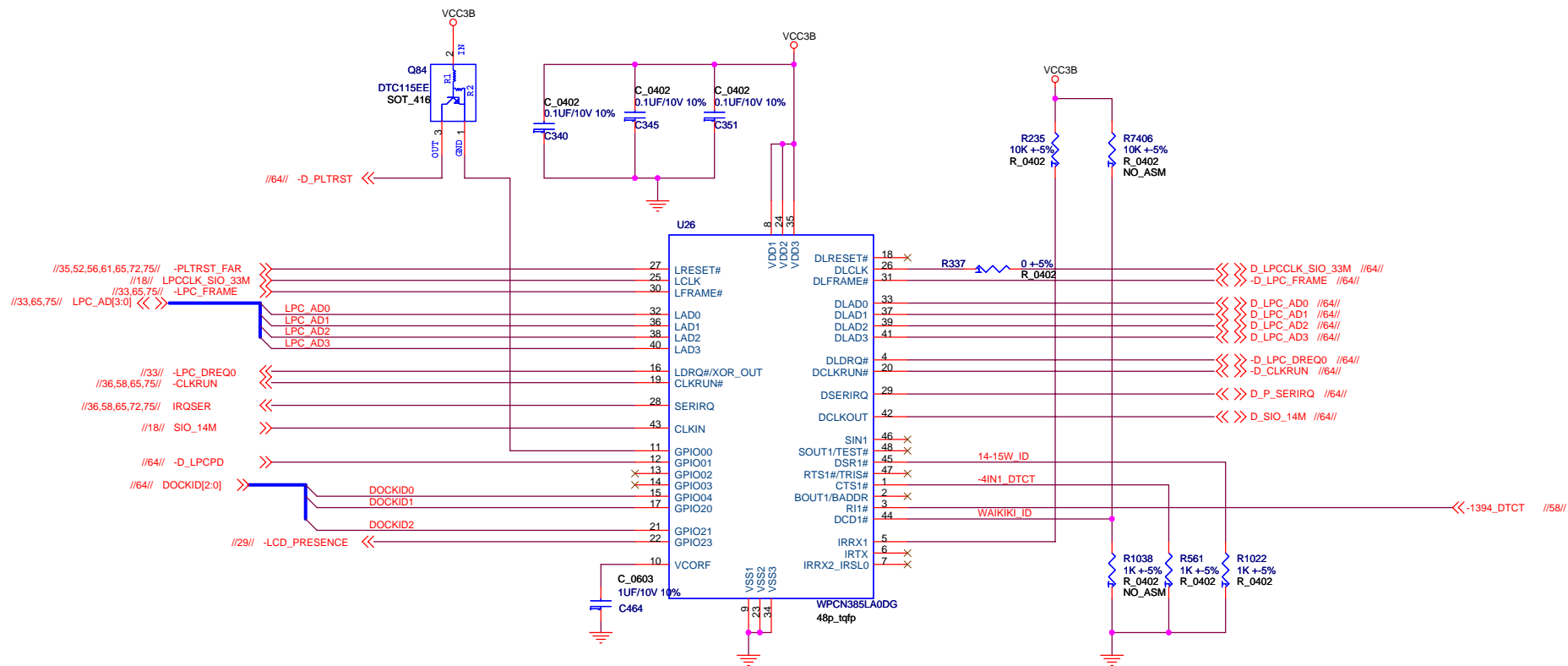
	ADXL322/LIS244AL /LIS34AL	LIS302ALB	NO ACC

	ADXL322	ST-MICRO	NO ACC
R401 R957	NO_ASM ASM	NO_ASM NO_ASM	ASM ASM
U9 U65	NO_ASM ASM	ASM NO_ASM	NO_ASM NO_ASM
Q105 D97	ASM ASM	ASM ASM	NO_ASM NO_ASM
R62 R885 C829 C969	ASM 10-OHM ASM ASM	ASM ASM ASM ASM	NO_ASM NO_ASM NO_ASM NO_ASM
R959 C830 C847	ASM ASM ASM	ASM ASM ASM	NO_ASM NO_ASM NO_ASM
R969 C938 R970 C956	56K ASM 56K ASM	56K NO_ASM 56K ASM	NO_ASM NO_ASM NO_ASM NO_ASM
C704 R344 C703	NO_ASM NO_ASM NO_ASM	ASM ASM ASM	NO_ASM NO_ASM NO_ASM
R125	ASM	NO_ASM	ASM



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Part No . 44C4349		TITLE: Waikiki3_INT SIT
EC No . L53251		
G-SENSOR		
LENOVO CONFIDENTIAL		sheet 71 of 101 Tuesday, April 01, 2008





GPIO Port assignment List

```
GPIO10(PIN3): 1394 detection
GPIO11(PIN4): 4-in-1 slot detection
GPIO12(PIN48):Reserved
GPIO13(PIN47):Reserved
GPIO14(PIN46):Legacy I/O detection(Waikiki not used)
GPIO15(PIN45): 14"/15" ID
GPIO16(PIN44):Waikiki ID,should be High
GPIO17(PIN7): Reserved
All of GPIO must have internal pull up function
```

```
GPIO ASSIGNMENT LIST
GPIO00: LPC RESET# FOR DOCKING LPC DEVICE
GPIO01: LPC POWER DOWN FOR DOCKING LPC DEVICE
GPIO02: RESERVED (INTERNAL PULLUP ENABLE)
GPIO03: RESERVED (INTERNAL PULLUP ENABLE)
GPIO04: DOCK ID 0
GPIO20: DOCK ID 1
GPIO21: DOCK ID 2
GPIO23: -LCD_PRESENCE
```

```

POWER ON STRAP PIN
PIN2: BASE I/O ADDRESS
      NC: 164E/164F (INTERNAL PU)
      PD: 2E/2F

PIN 31: LPC SWITCH FUNCTION
      NC: SWITCH ENABLE (CONTROLLED BY DLCON BIT)
      PD: SWITCH DISABLE (FORCED TO BE DISCONNECTED)

PIN 47: TRISTATE
      NC: NORMAL OPERATION
      PD: ALL PINS FLOATING

PIN 48: TEST
      NC: NORMAL OPERATION
      PD: TEST MODE


```

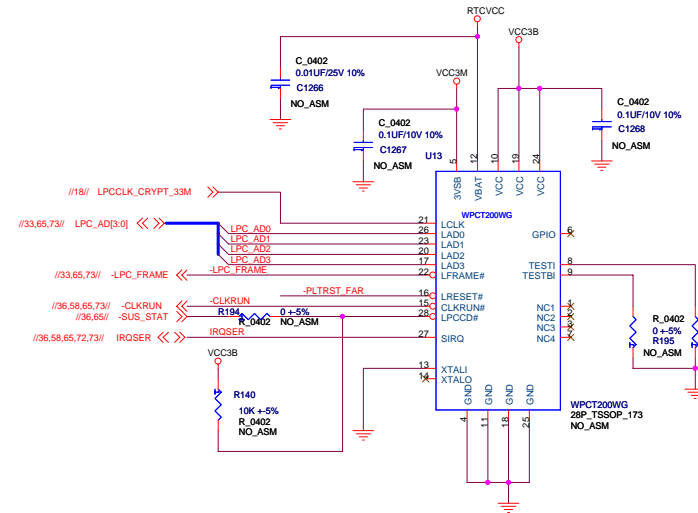
Internal Pullup enabl for GPIO 05/20/21

WIKIKI ID
HIGH: WAIKIKI
LOW: DAVINCI

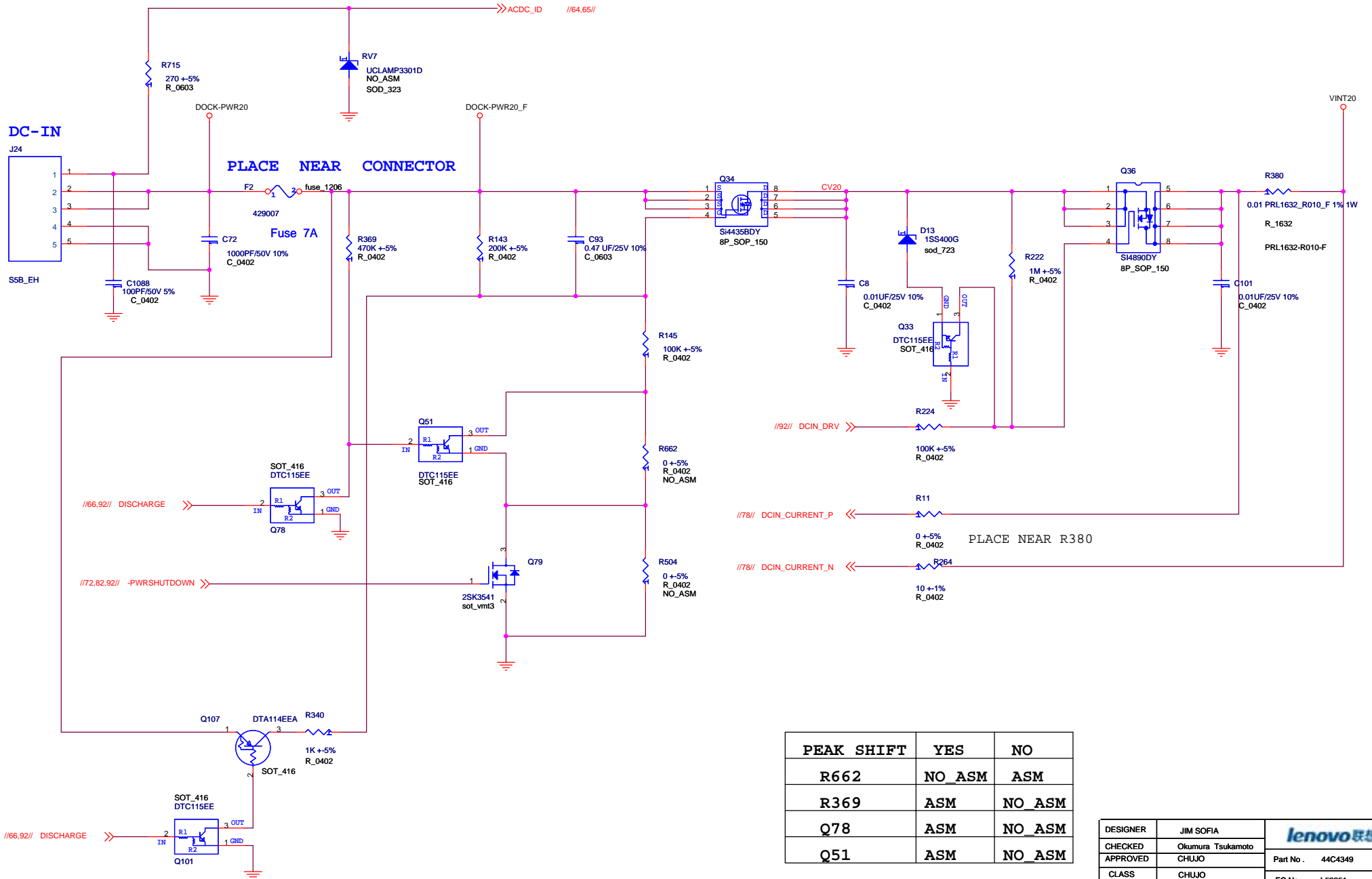
4 IN1 SLOT	R561
YES	ASM
NO	NO_ASM

	R1022
14''	NO_ASM
15W	ASM


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		<p>EC No. L53251</p>
		<p>TITLE: Walik33_INT SIT</p>
		<p>SIO WPCN385SDG</p>
LENOVO CONFIDENTIAL		<p>sheet 73 of 101</p> <p>Tuesday, April 01, 2008</p>



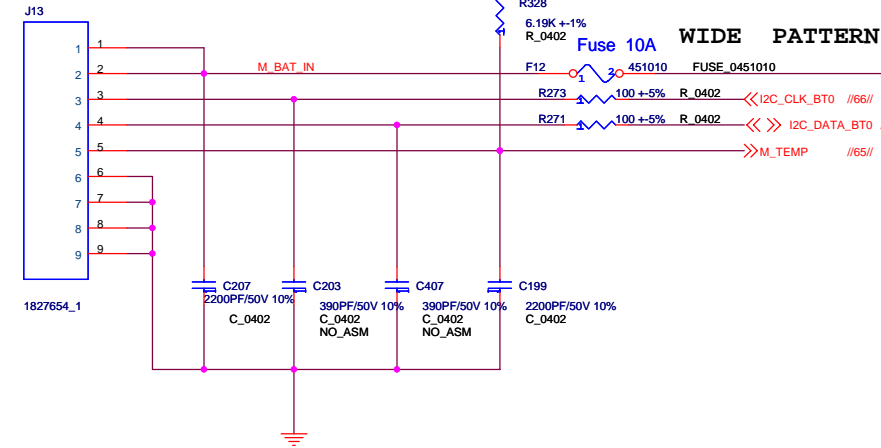
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APPROVED	CHUJO
CLASS	CHUJO
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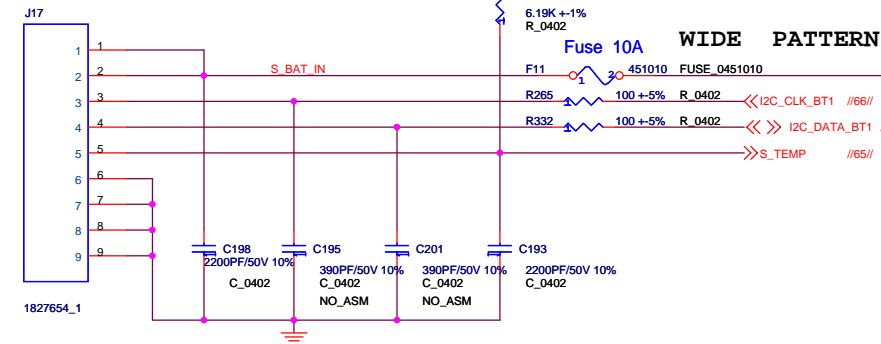
PEAK SHIFT	YES	NO
R662	NO_ASM	ASM
R369	ASM	NO_ASM
Q78	ASM	NO_ASM
Q51	ASM	NO_ASM

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CLASS	CHUJO	EC No . L53251
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MAIN BAT CONN



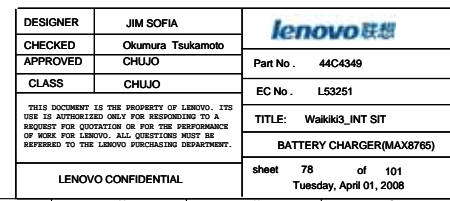
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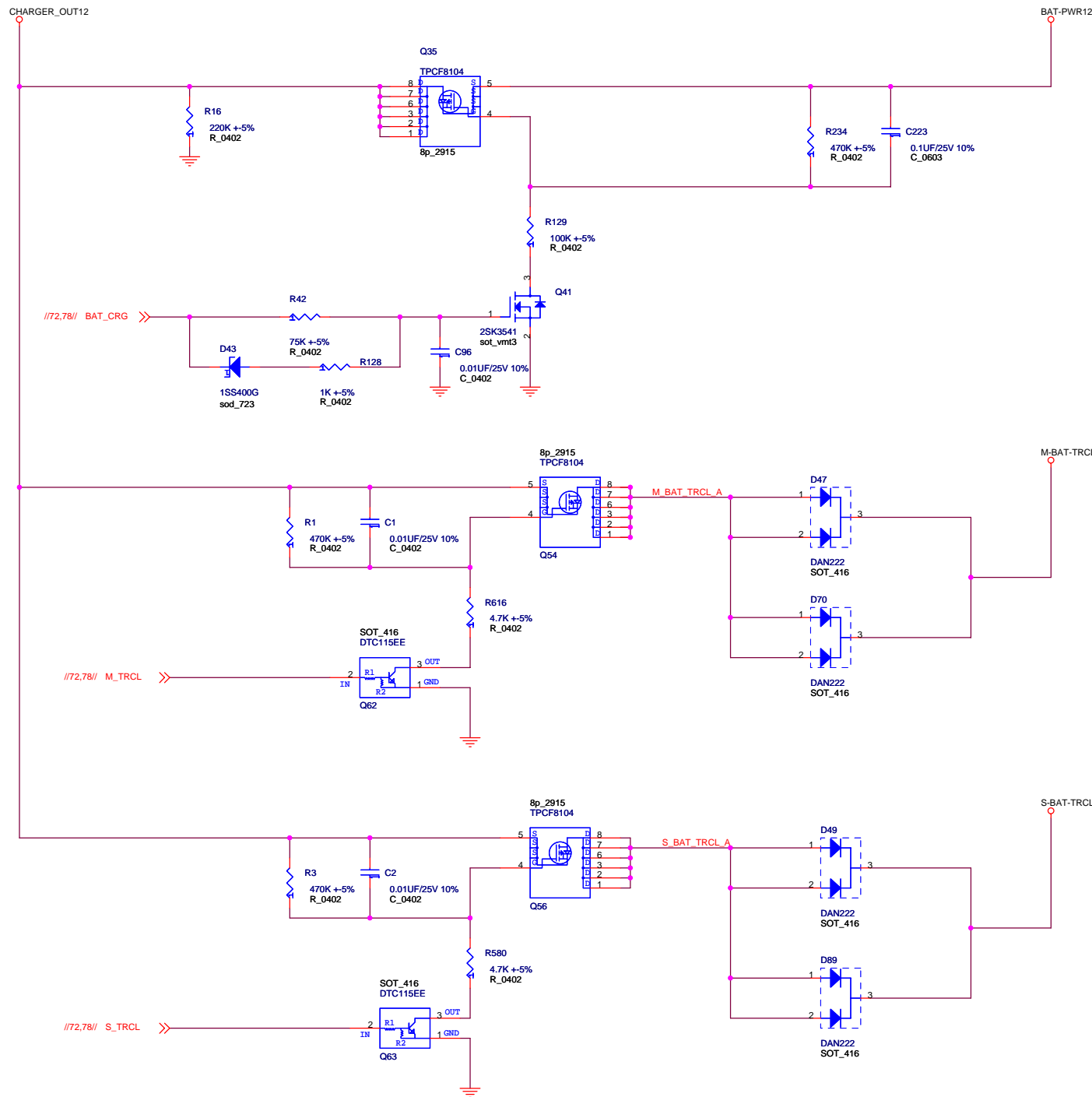


	Swap Bay	Fixed Bay
J17	ASM	NO_ASM
C198	ASM	NO_ASM
C195	NO_ASM	NO_ASM
C201	NO_ASM	NO_ASM
F11	ASM	NO_ASM
R265	ASM	NO_ASM
R332	ASM	NO_ASM
Q7	ASM	NO_ASM
R630	ASM	NO_ASM
Q9	ASM	NO_ASM
R636	ASM	NO_ASM
R284	ASM	NO_ASM


	Swap Bay	Fixed Bay
Q8	ASM	NO_ASM
R634	ASM	NO_ASM
Q10	ASM	NO_ASM
R638	ASM	NO_ASM
R483	ASM	NO_ASM
F10	ASM	NO_ASM
D23	ASM	NO_ASM
R9084	NO_ASM	ASM
R292	ASM	ASM

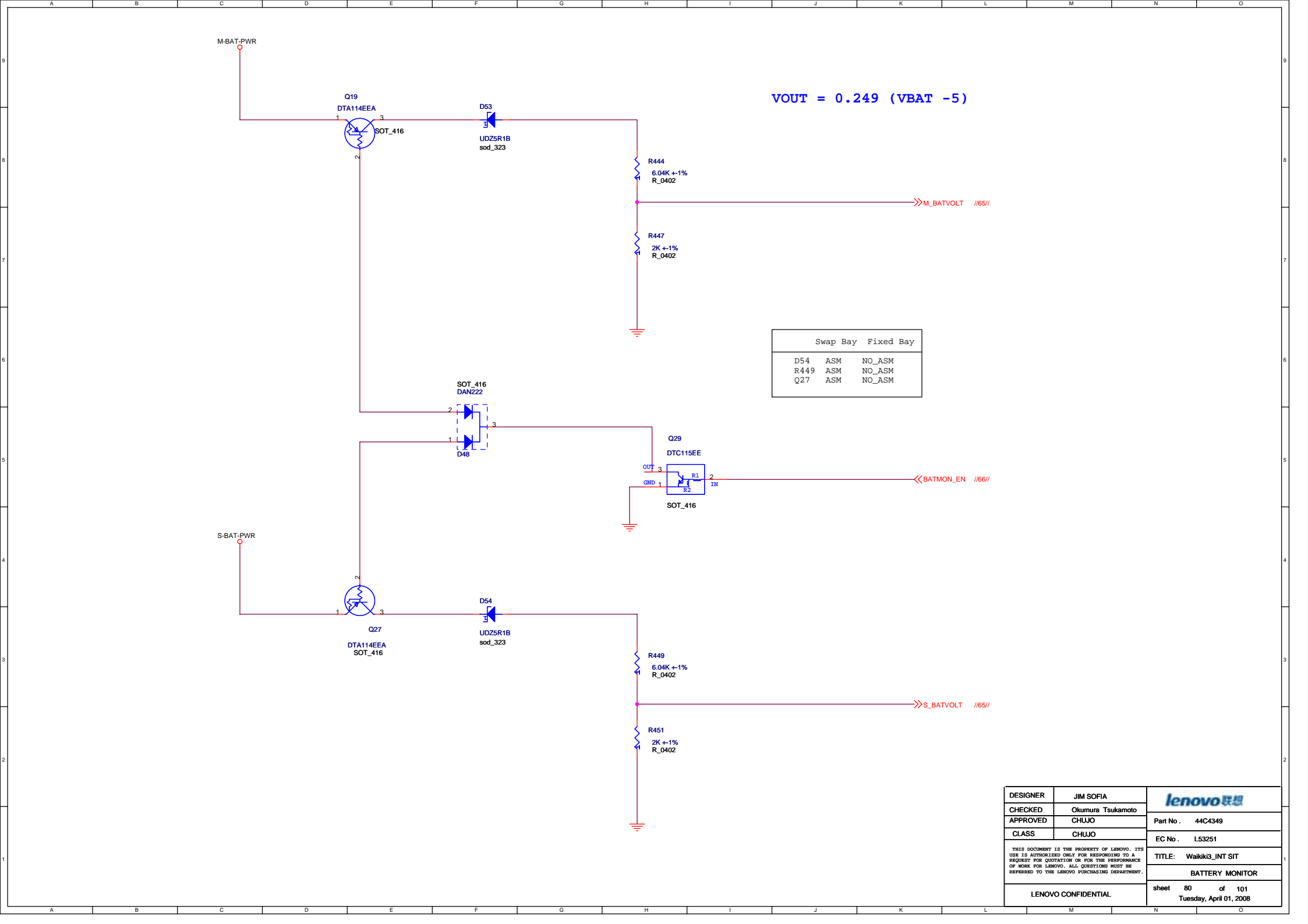
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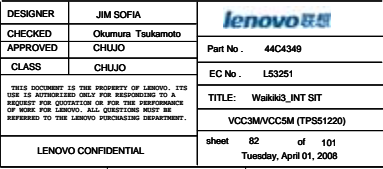


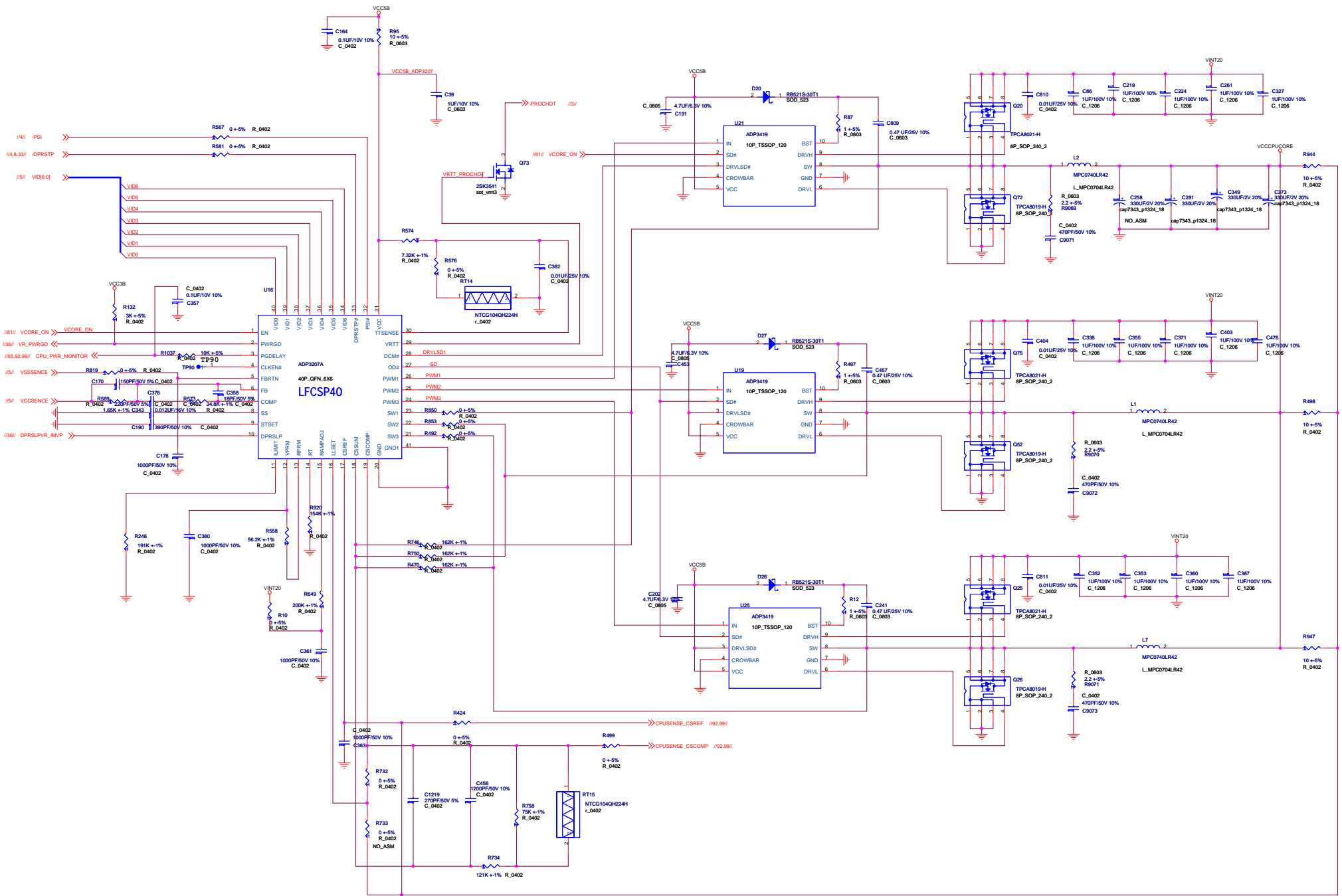



	Swap Bay	Fixed Bay
R3	ASM	NO_ASM
C2	ASM	NO_ASM
R580	ASM	NO_ASM
Q63	ASM	NO_ASM
Q56	ASM	NO_ASM
D49	ASM	NO_ASM
D89	ASM	NO_ASM

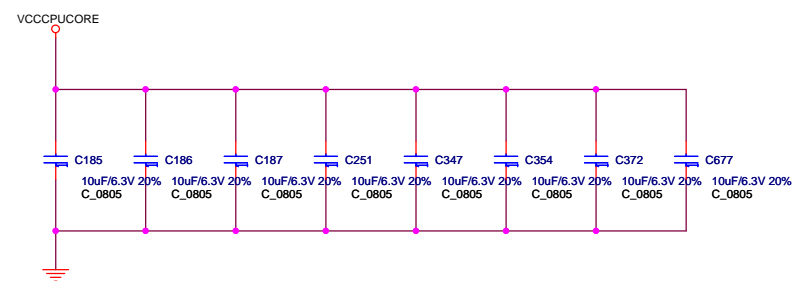
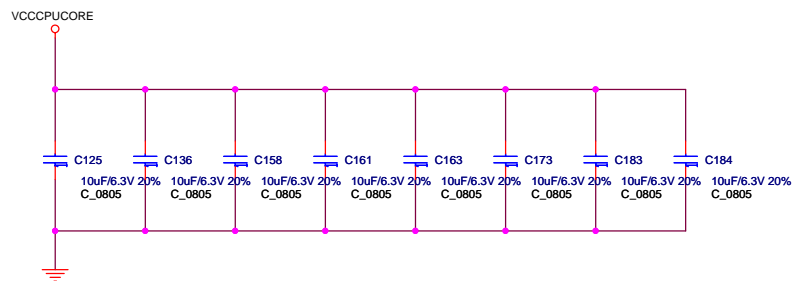
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		TITLE: Waikiki3_JNT SIT
		CHARGE SELECTOR
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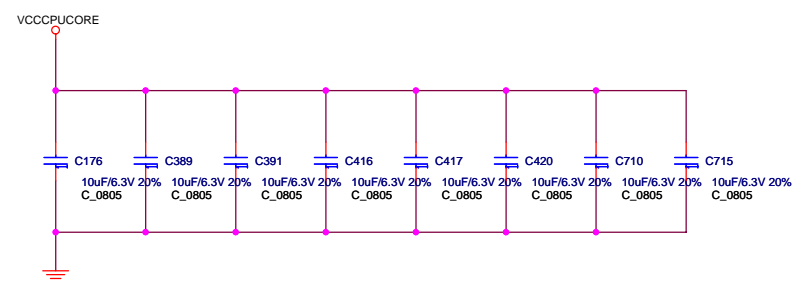
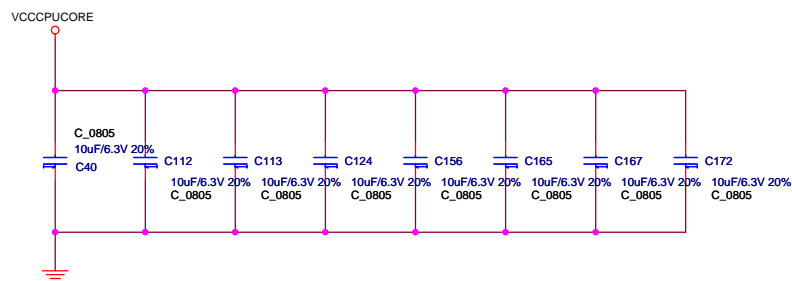





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sheet 83 of 101		
Tuesday, April 01, 2008		



10UF 6.3V X5R 0805 1/16W X 16PCS



10UF 6.3V X5R 0805 1/16W X 16PCS
(USE ADP3207A)

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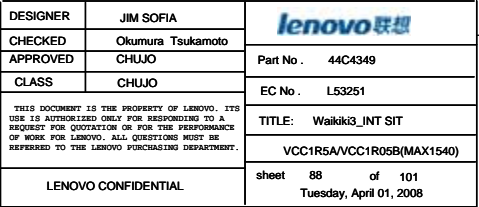
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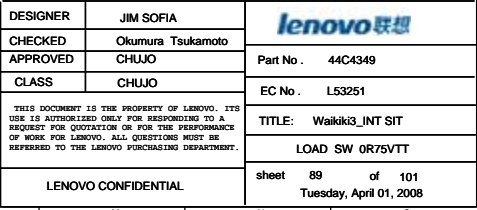
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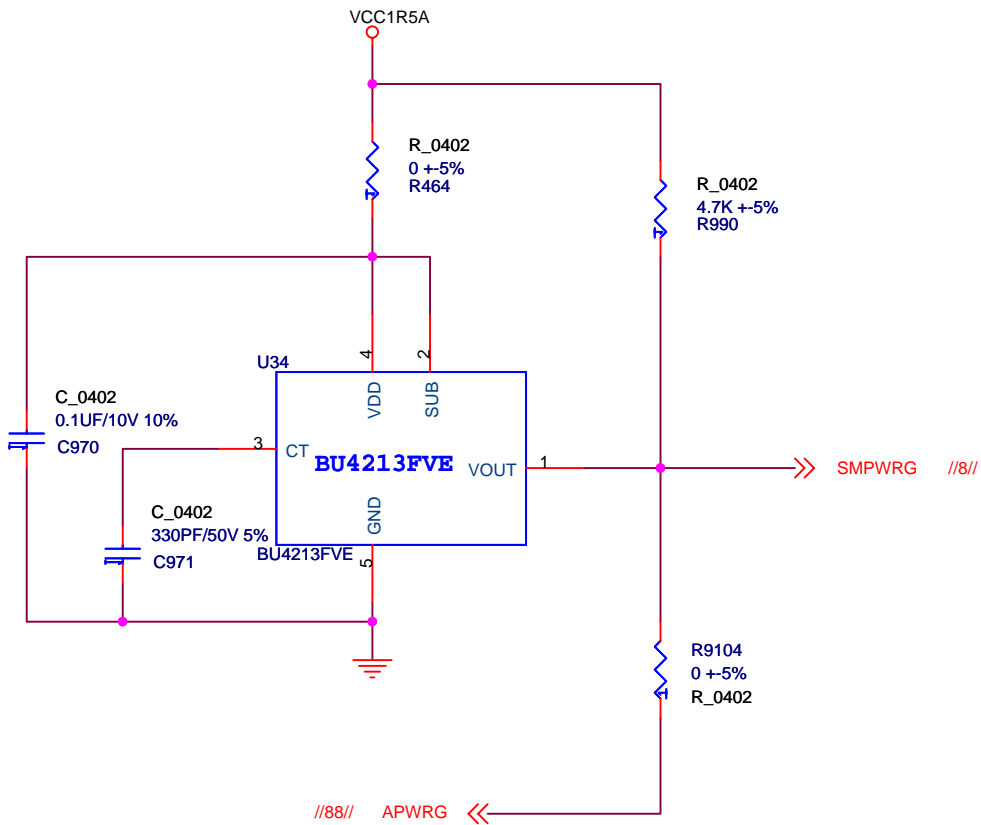
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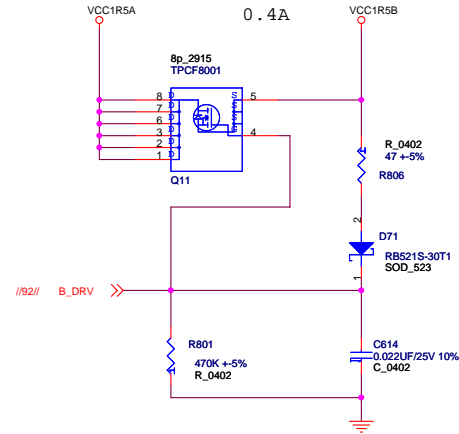
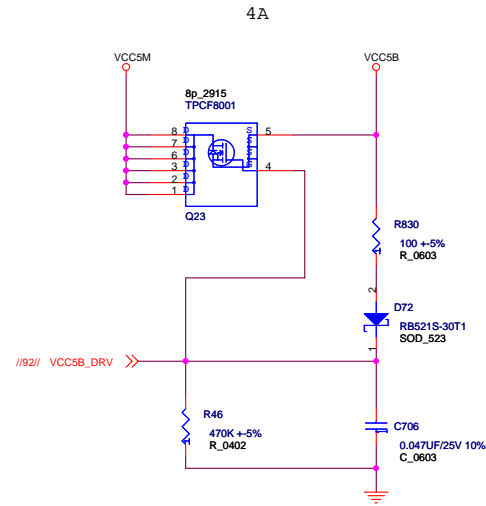
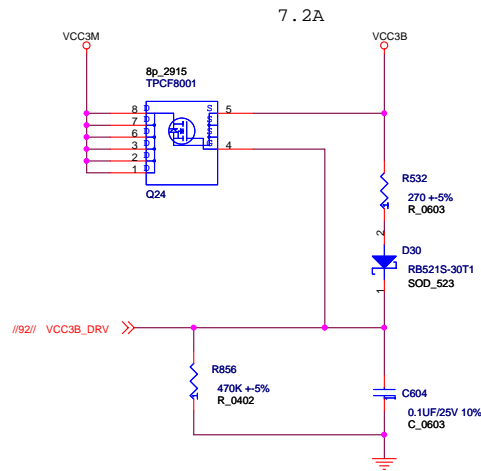
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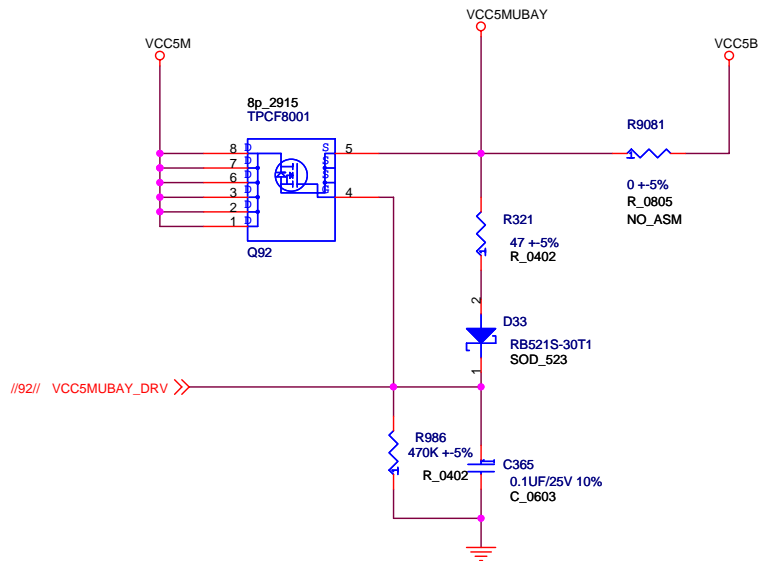
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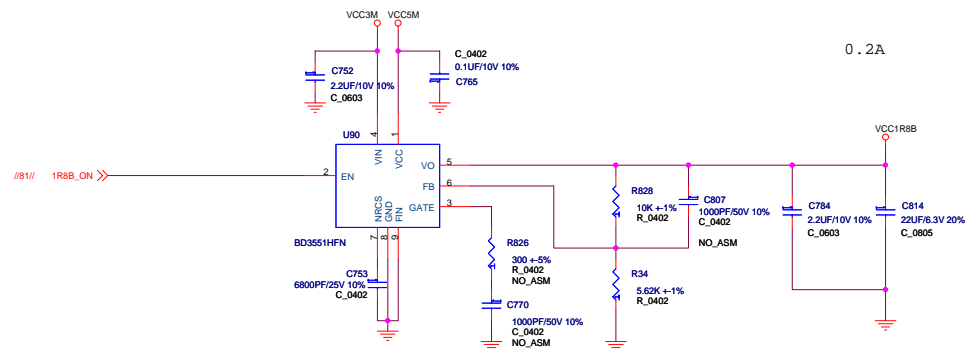
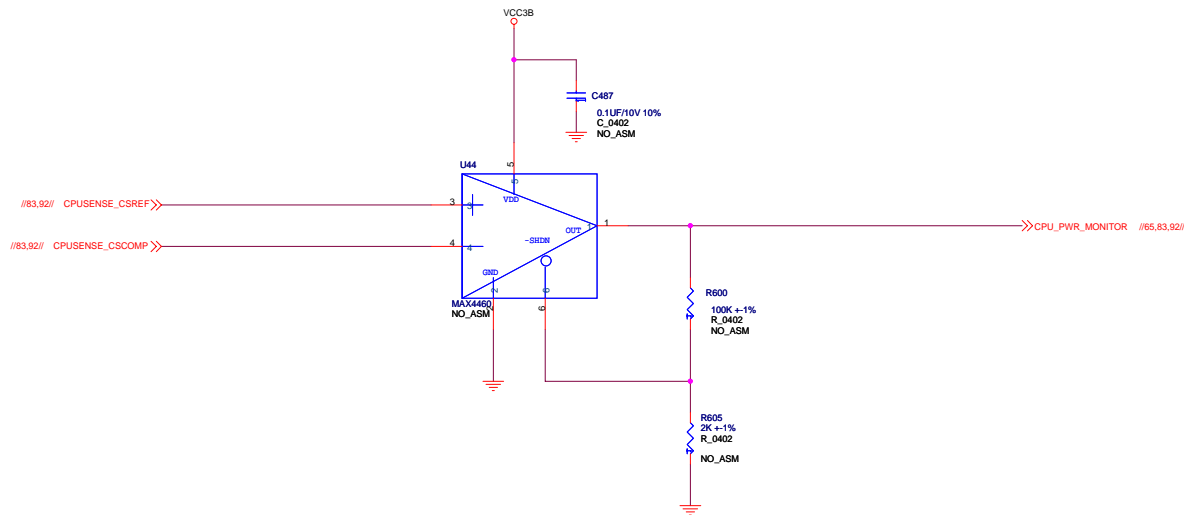
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		TITLE: Waikiki3_INT SIT
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		Tuesday, April 01, 2008

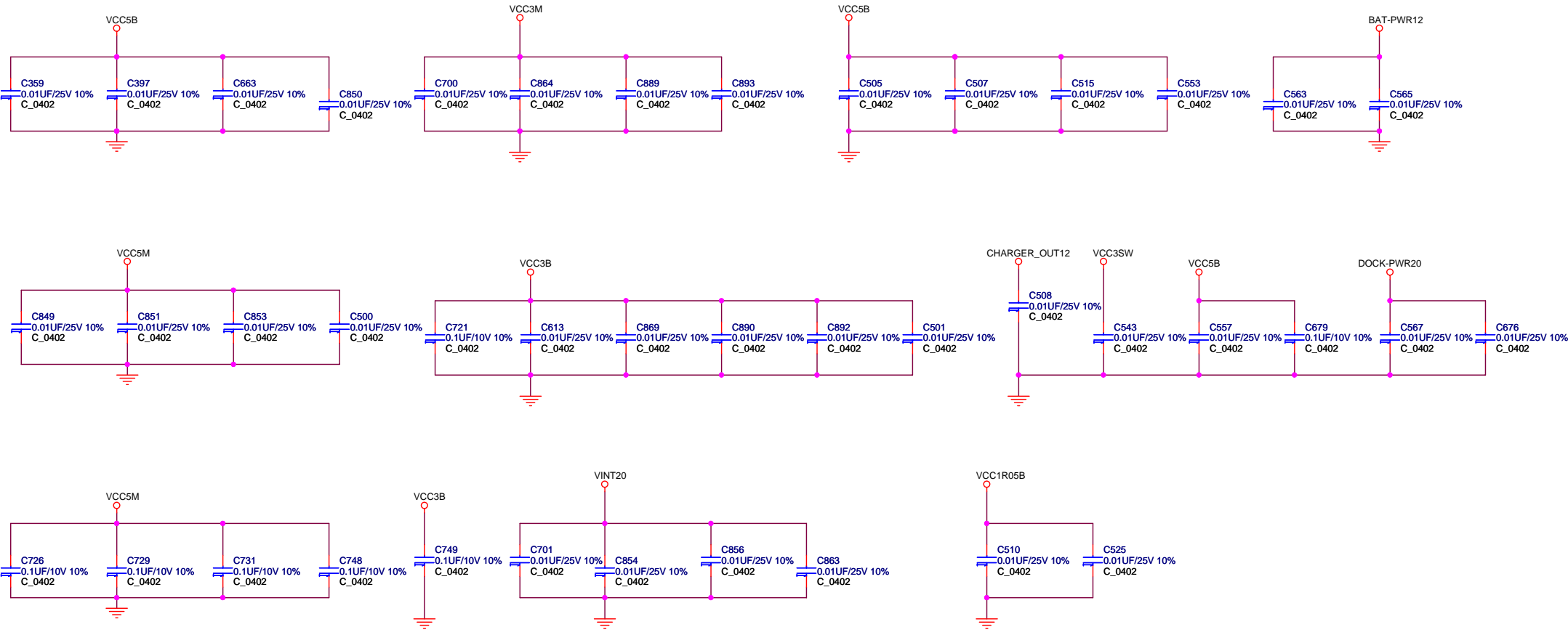


	Swap Bay	Fix Bay
Q92	ASM	NO_ASM
R321	ASM	NO_ASM
D33	ASM	NO_ASM
C365	ASM	NO_ASM
R986	ASM	NO_ASM
R9081	NO_ASM	ASM

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		LOAD SW UBAY
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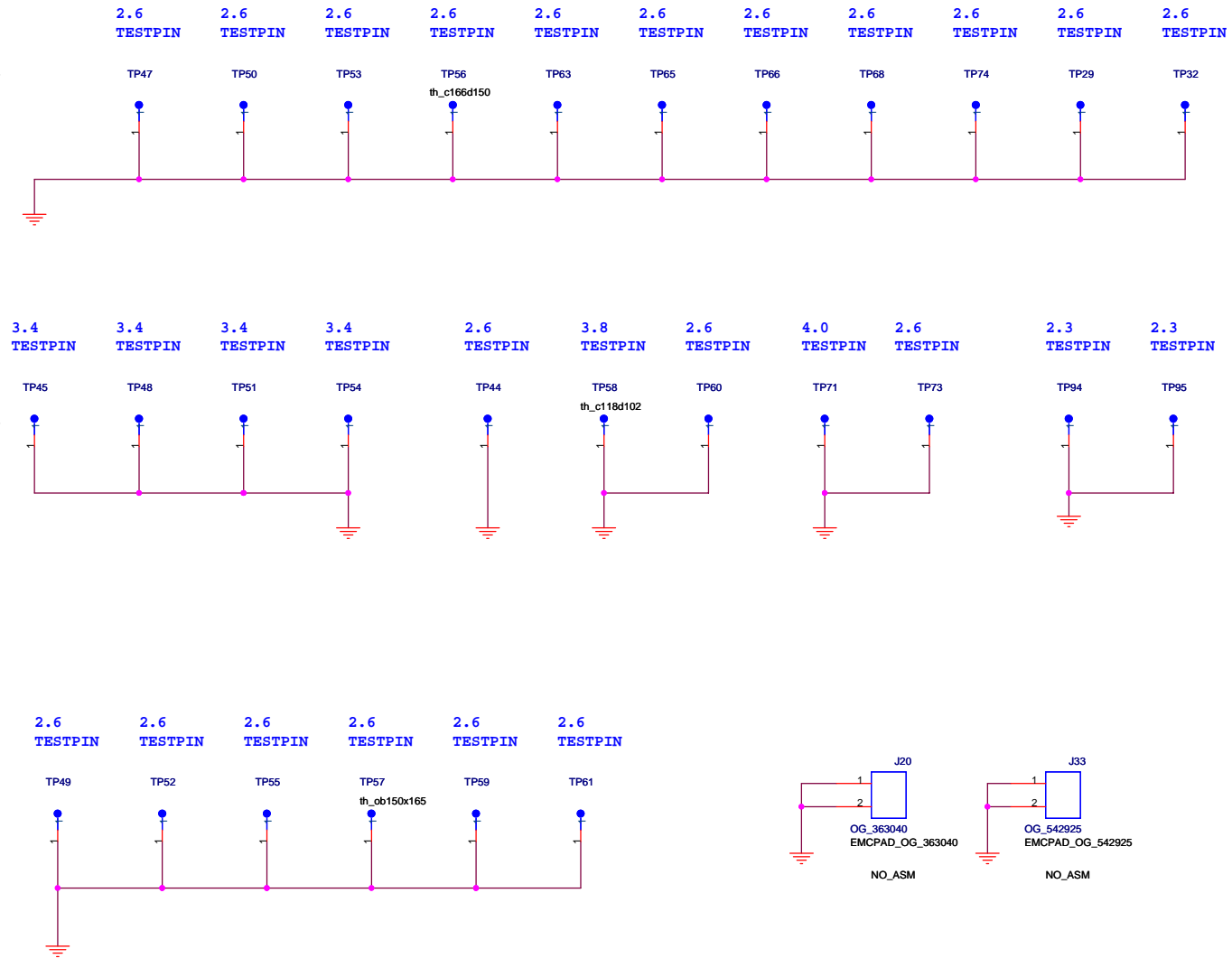



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		EMC Decoupling
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PTH FOR SCREW HOLE



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