

# MALIBU-3 EXT SVT

	DATE	EC NO.	PART NO.  <div style="text-align: center; font-size: 1.5em;">VER.5.09</div>
REL			
			DEVELOPMENT NO. <div style="float: right;">Q/M</div> <div style="clear: both;"></div> <div style="text-align: right; font-size: 1.2em;">1 / 101</div>

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MLB3D-6

VER.5.09

MAR/25/'08

DESIGNER	Y.Y	03/25/08	PART NO. <b>VER.5.09</b>	
CHECKED	Y.I	03/25/08		
APPROVED	H.K	03/25/08	TITLE    MLB-3    EXT    SVT	
CLASS	H.K	03/25/08	TITLE    PAGE	
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# EC HISTORY

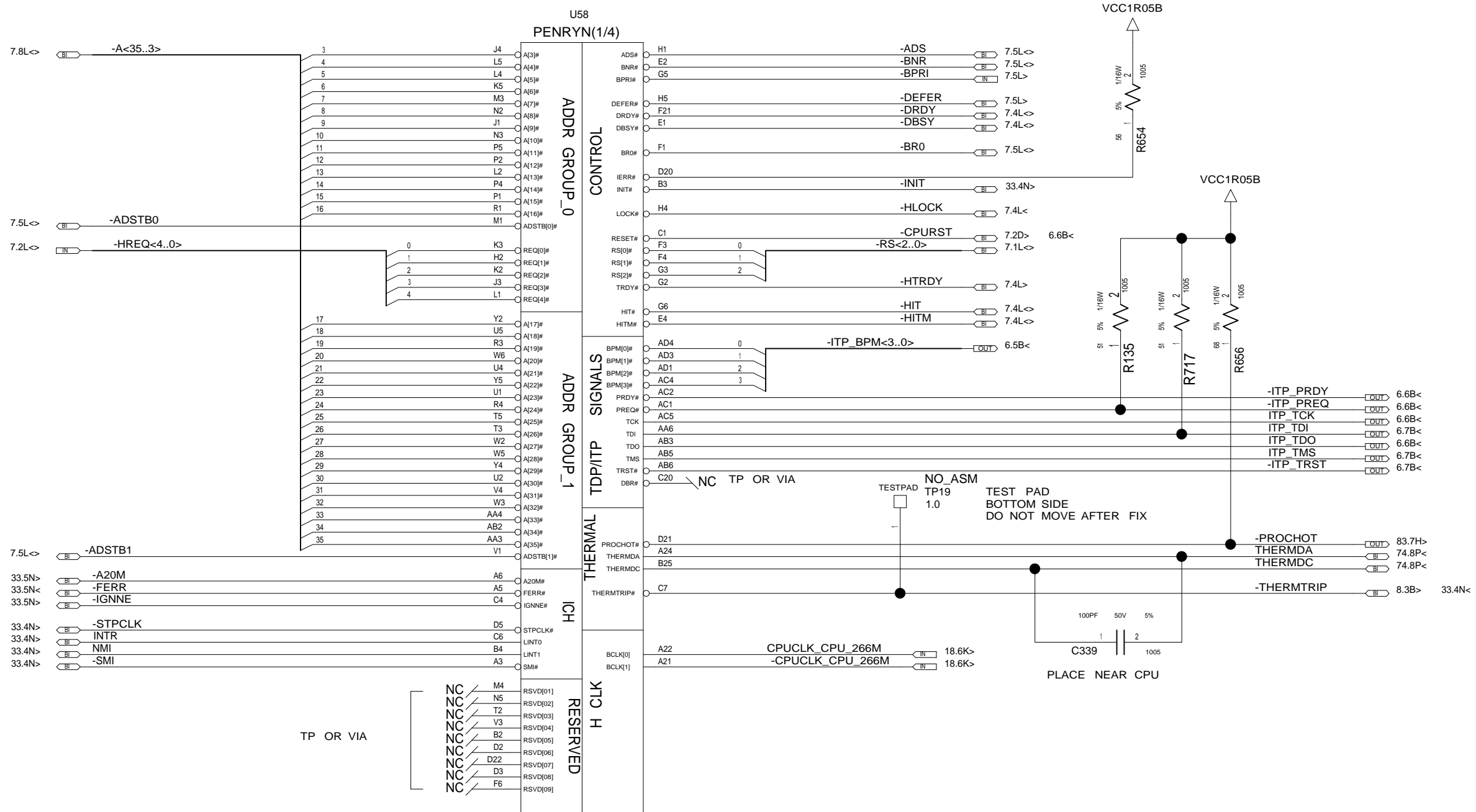
MALIBU-3 EXT SVT  
BASE LOGIC MALIBU-3 EXT SIT VER.4.11

VER.5.00	APPLY	MLB3_SVT_EC500
VER.5.01	APPLY	MLB3_SVT_EC003,EC005,EC006
VER.5.02	APPLY	MLB3_SVT_EC007
VER.5.03	APPLY	MLB3_SVT_EC008
VER.5.04	APPLY	MLB3_SVT_EC009,EC010,EC011,EC012,EC013,EC501
VER.5.05	APPLY	MLB3_SVT_EC502
VER.5.06	APPLY	MLB3_SVT_EC014,EC015
VER.5.07	APPLY	MLB3_SVT_EC016
VER.5.08	APPLY	MLB3_SVT_EC017,EC018,EC503
VER.5.09	APPLY	MLB3_SVT_EC021

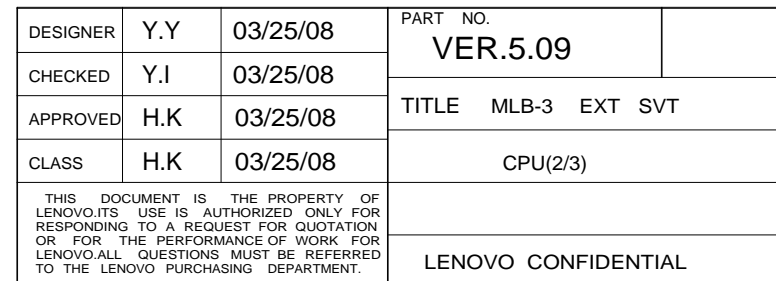
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REL			VER.5.09	
			DEVELOPMENT NO.	
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			2 / 101	

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DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	EC HISTORY	
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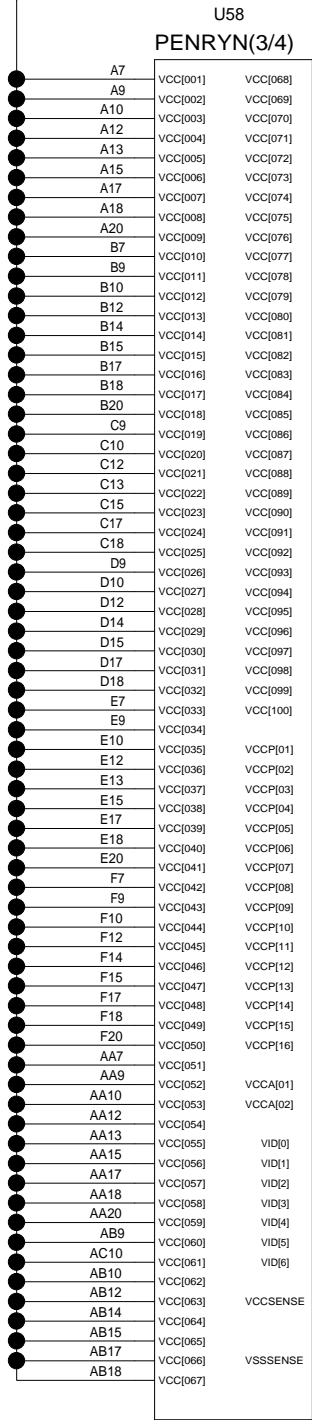
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CHECKED	Y.I	03/25/08		
APPROVED	H.K	03/25/08	TITLE    MLB-3    EXT    SVT	
CLASS	H.K	03/25/08	CPU(1/3)	
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DATE		EC NO.		PART NO.	
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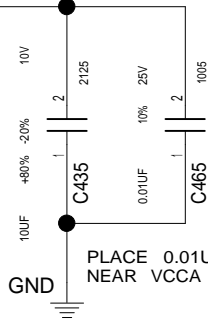
VCCCPUCORE

VCCCPUCORE



VCC1R05B

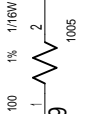
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83.7B<



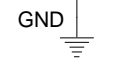
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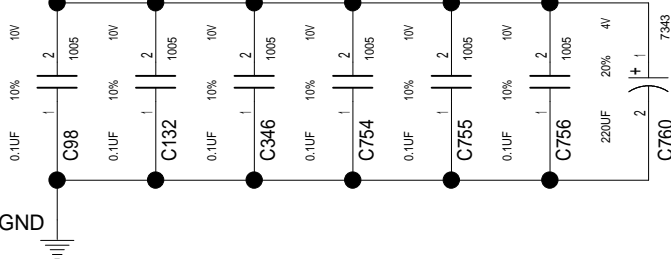
VSSSENSE

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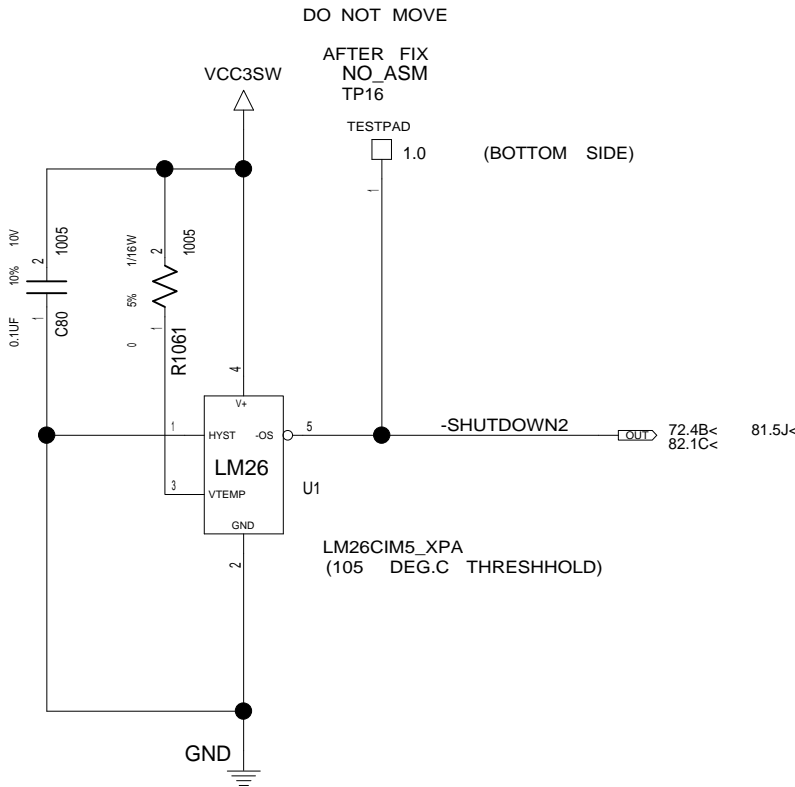
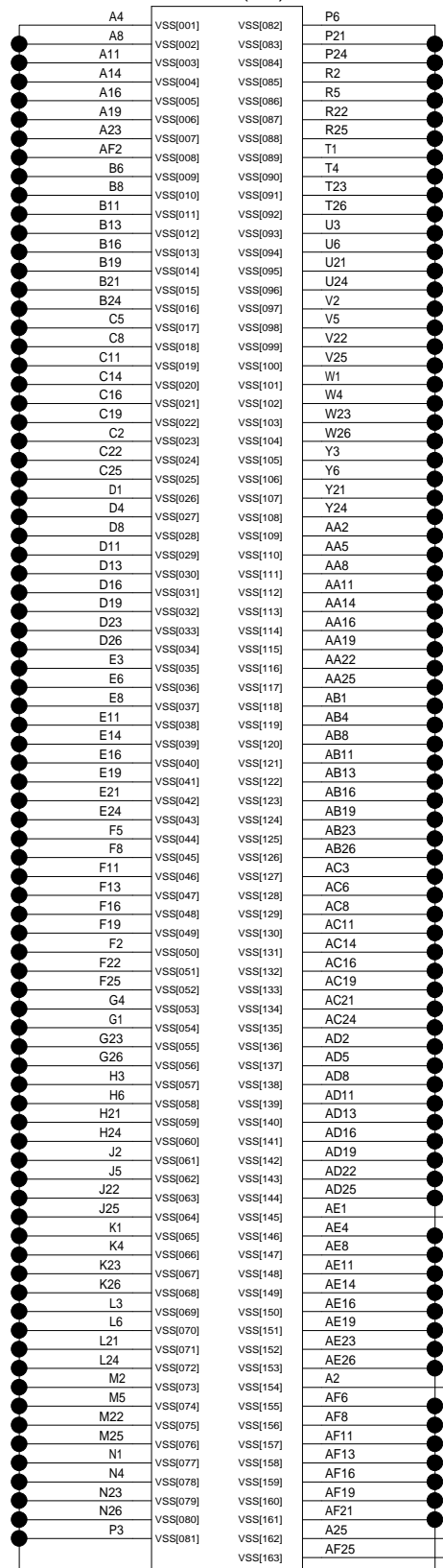


VCC1R05B



VER.5.09

U58  
PENRYN(4/4)



TABLE

U1	R1061
NS LM26 MAXIM MAX6519	NO_ASM
MAXIM MAX6501 ADI ADT6501	ASM

LOGIC

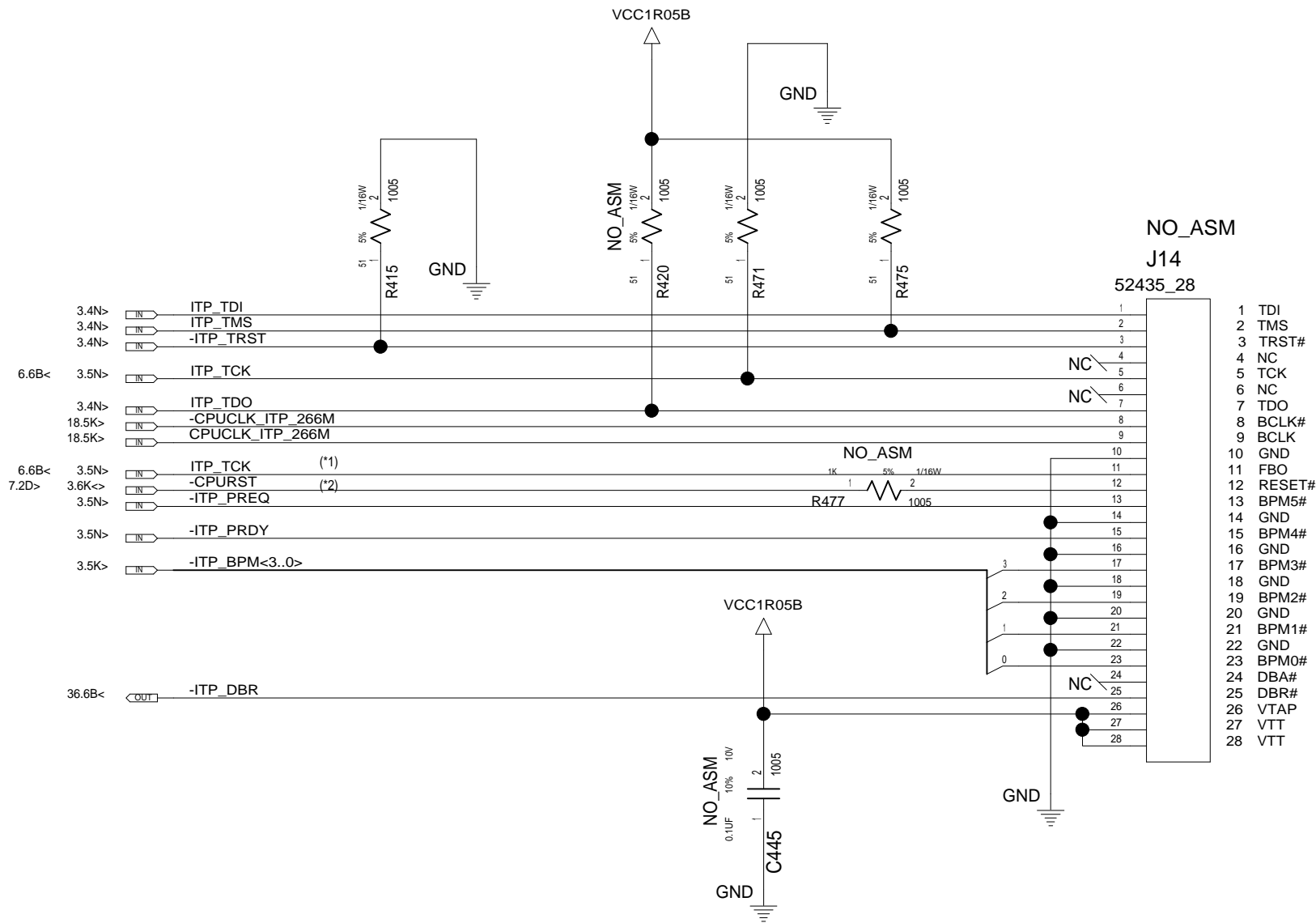
FOR SOLDER CRACK DETECTION

NO\_ASM TP36 155\_06R TESTPAD

NO\_ASM TP8 155\_06R TESTPAD

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CLASS	H.K	03/25/08	CPU(3/3)	
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REL						VER.5.09	
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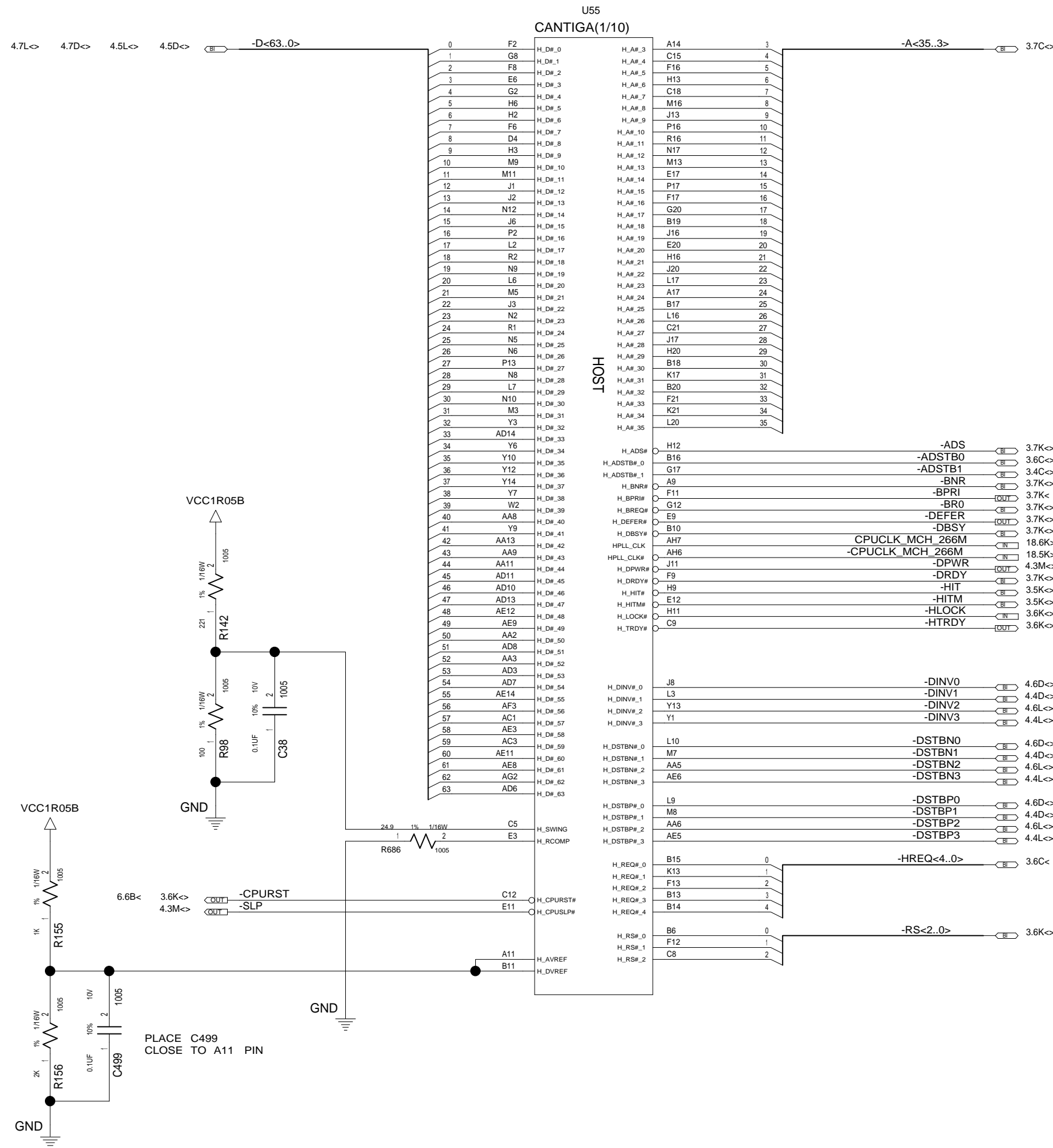
(\*1) TCK SIGNAL IS BRANCHED AT PENRYN PIN

(\*2) -CPURST SIGNAL IS BRANCHED AT CANTIGA PIN

TABLE

REF	DES	PRODUCTION	ITP700FLEX	FOR ITP-XDP
J14		NO_ASM	ASM	ASM
C445		NO_ASM	ASM	ASM
R717	TDI	ASM	150 5% ASM	ASM(NO CHANGE)
R477	CPURST#	NO_ASM	150 5% ASM	1K 5% ASM
R415	TRST#	ASM	510 5% ASM	ASM(NO CHANGE)
R420	TDO	NO_ASM	51 5% ASM	51 5% ASM
R471	TCK	ASM	27.4 1% ASM	ASM(NO CHANGE)
R475	TMS	ASM	39.2 1% ASM	ASM(NO CHANGE)

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CLASS	H.K	03/25/08	ITP CONNECTOR	
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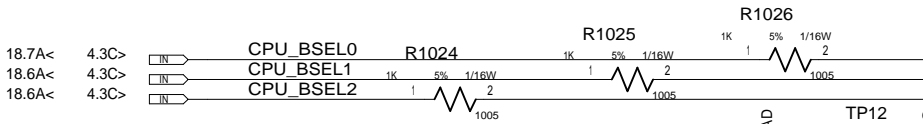
ME DEBUG PORT PIN OUT TABLE

RSVD10	ME_JTAG_TCK
RSVD11	ME_JTAG_TDI
RSVD12	ME_JTAG_TDO
RSVD13	ME_JTAG_TMS

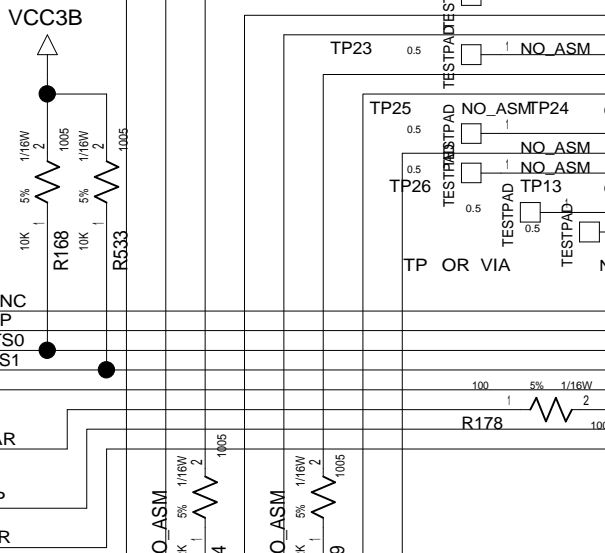
NEED TP OR VIA FOR THESE PINS

HOST BUS CLK SELECT TABLE

	BSEL2	BSEL1	BSEL0
667M	0	1	1
800M	0	1	0
1066M	0	0	0

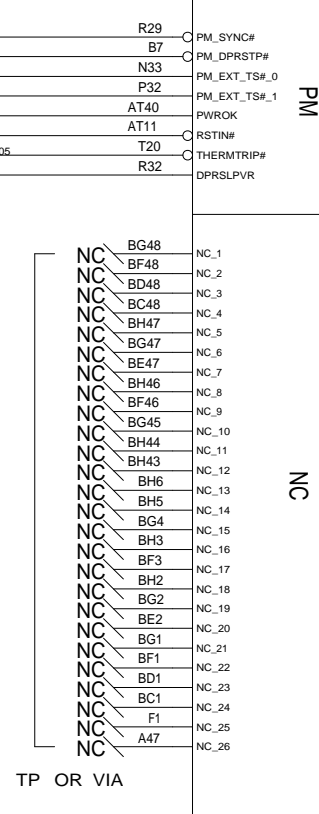
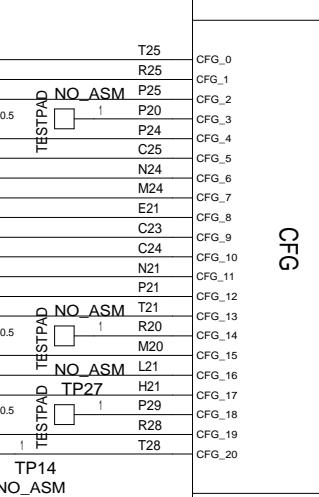
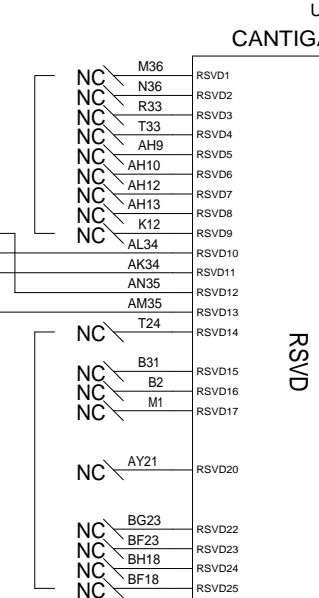
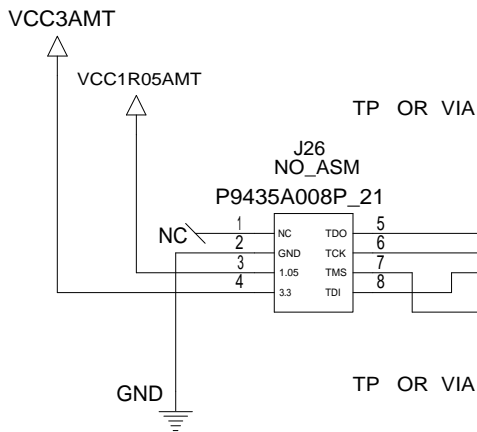


CFG[17:3]	INTERNAL PULLUP
CFG[20:18]	INTERNAL PULLDOWN

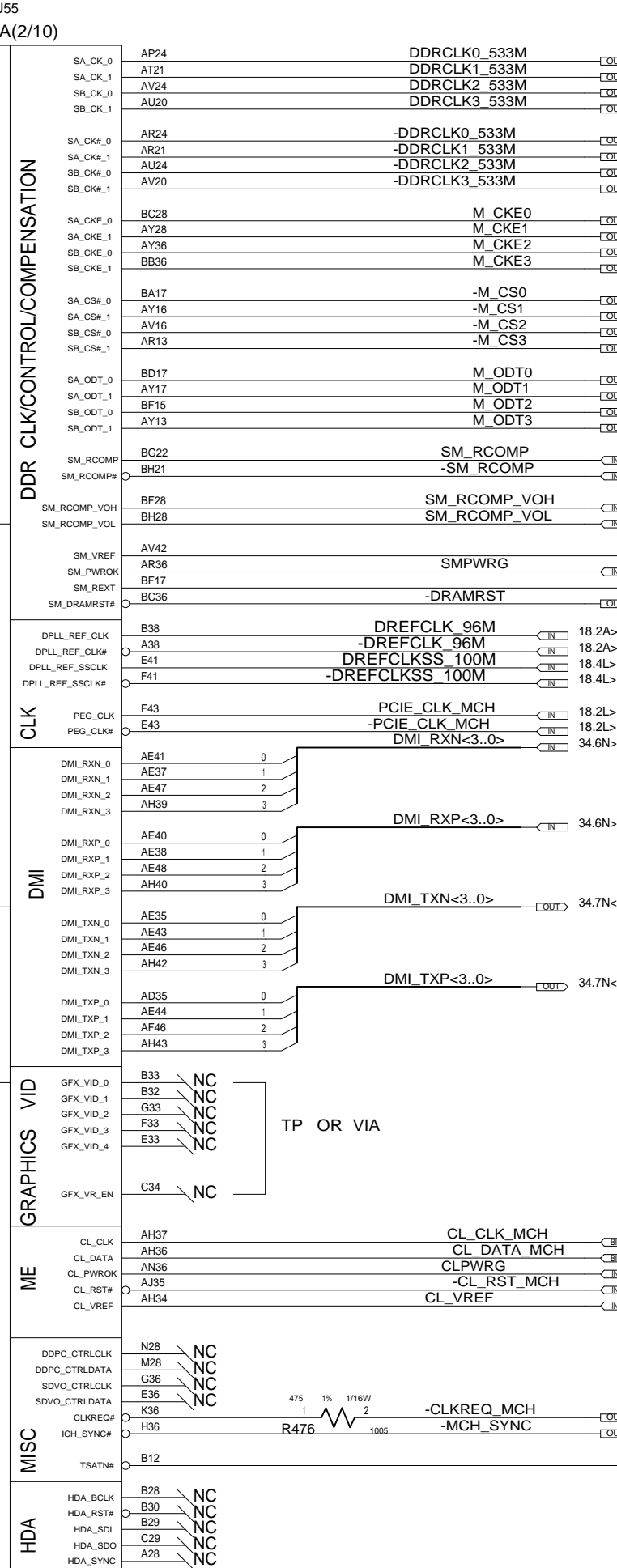


CFG5 DMI	R183
X2 :	ASM
X4 :	NO_ASM
CFG6 ITPM HOST I/F	
ENABLE :	ASM
DISABLE :	NO_ASM
CFG7 ME CRYPTO STRAP	
NO CONFIDENTIALITY :	ASM
WITH CONFIDENTIALITY :	NO_ASM
CFG9 PEG PORT	R383
LANE REVERSAL :	ASM
NORMAL :	NO_ASM

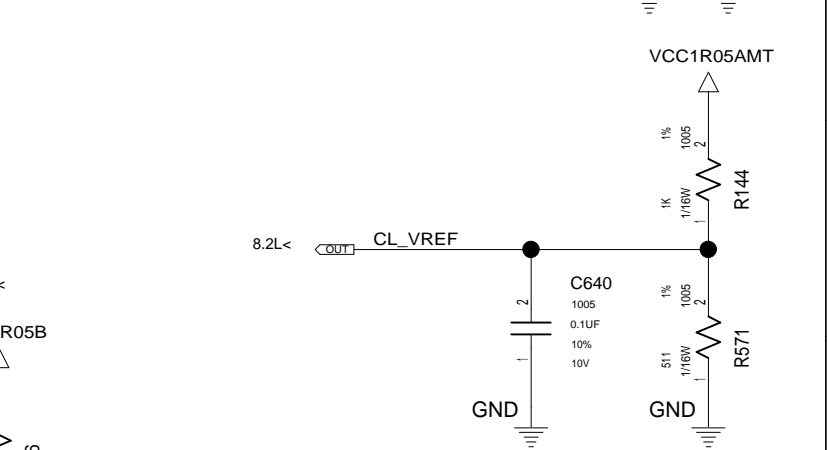
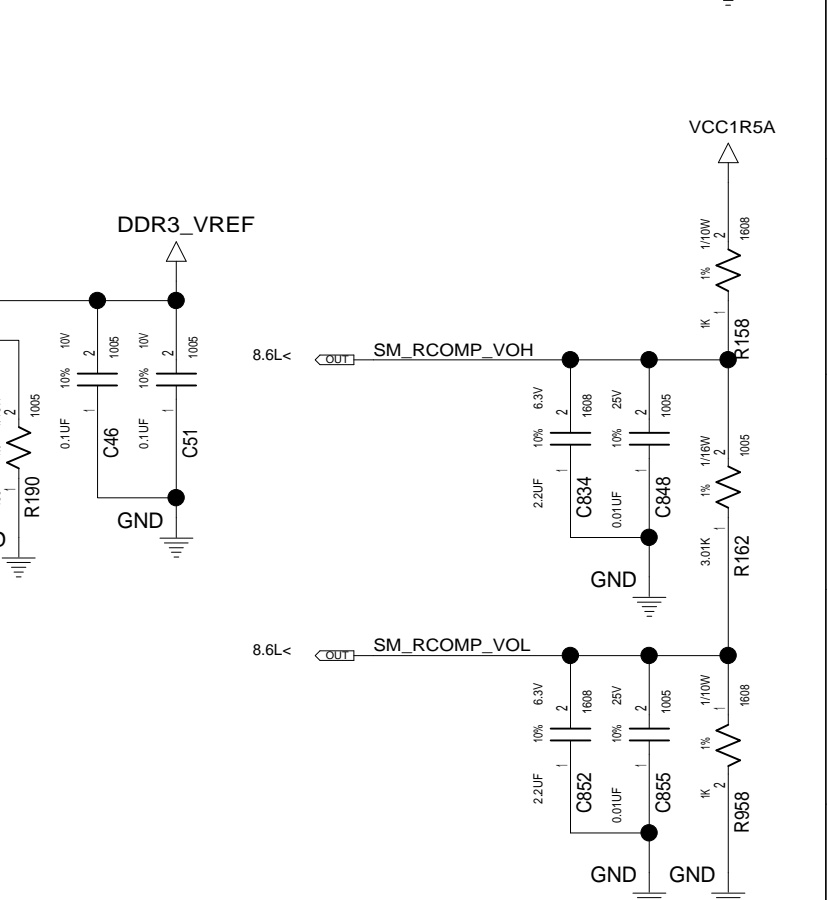
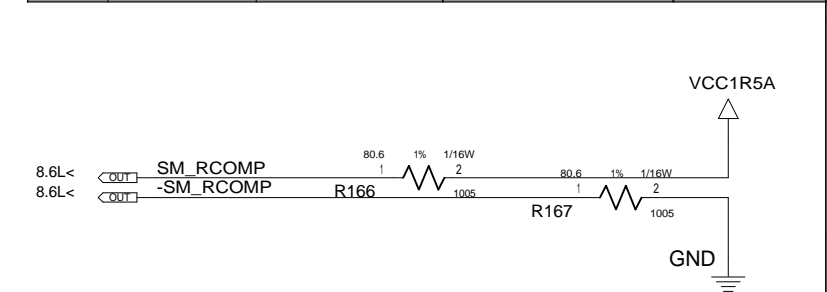
VER.5.09



U55 CANTIGA(2/10)



REL	DATE	EC NO.	PART NO.	VER.5.09
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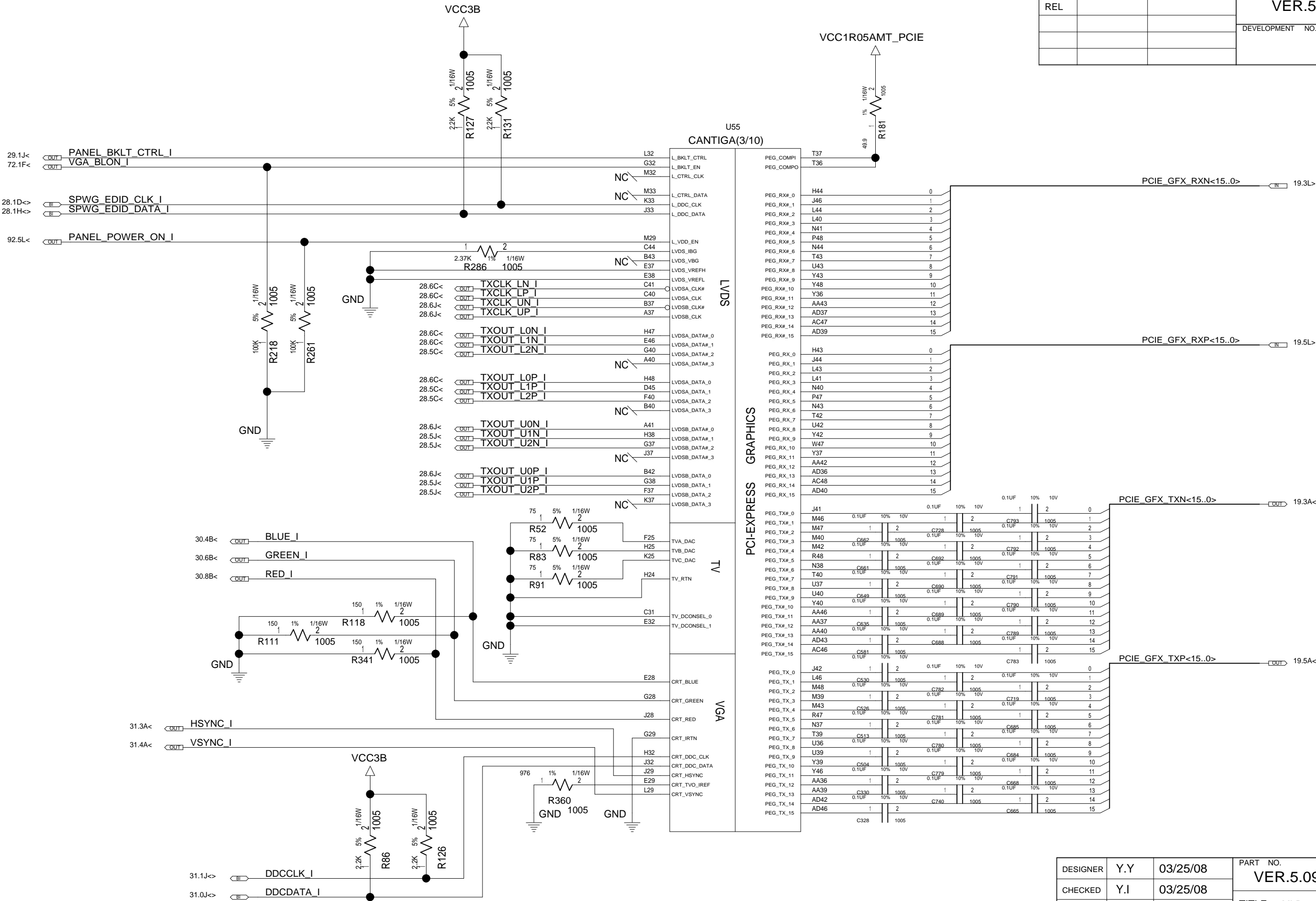


DESIGNER	Y.Y	03/25/08	PART NO.	VER.5.09
CHECKED	Y.I	03/25/08	TITLE	MLB-3 EXT SVT
APPROVED	H.K	03/25/08	CANTIGA(2/8):	DMI/CLK/CONTROL
CLASS	H.K	03/25/08	LENOVO CONFIDENTIAL	

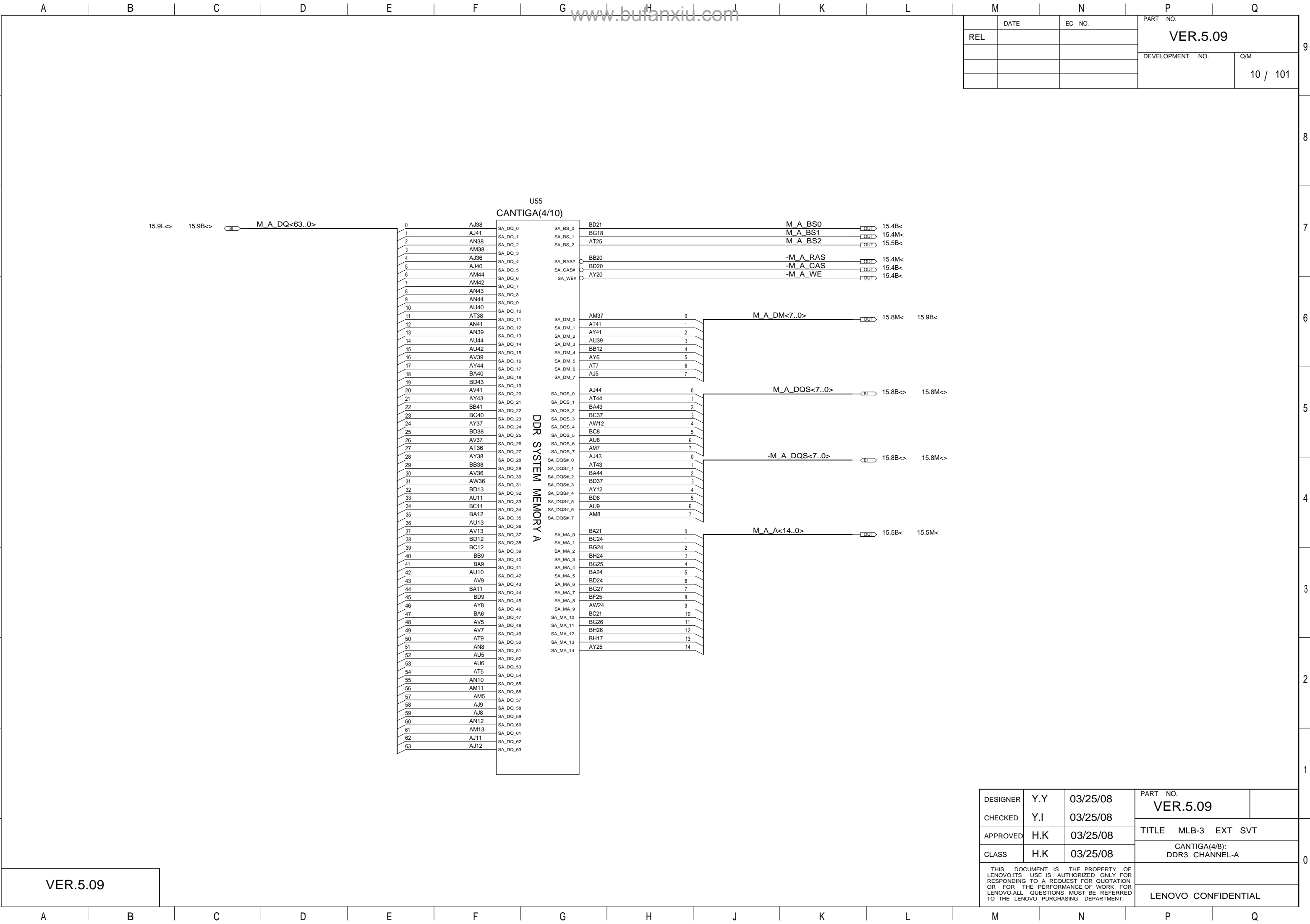
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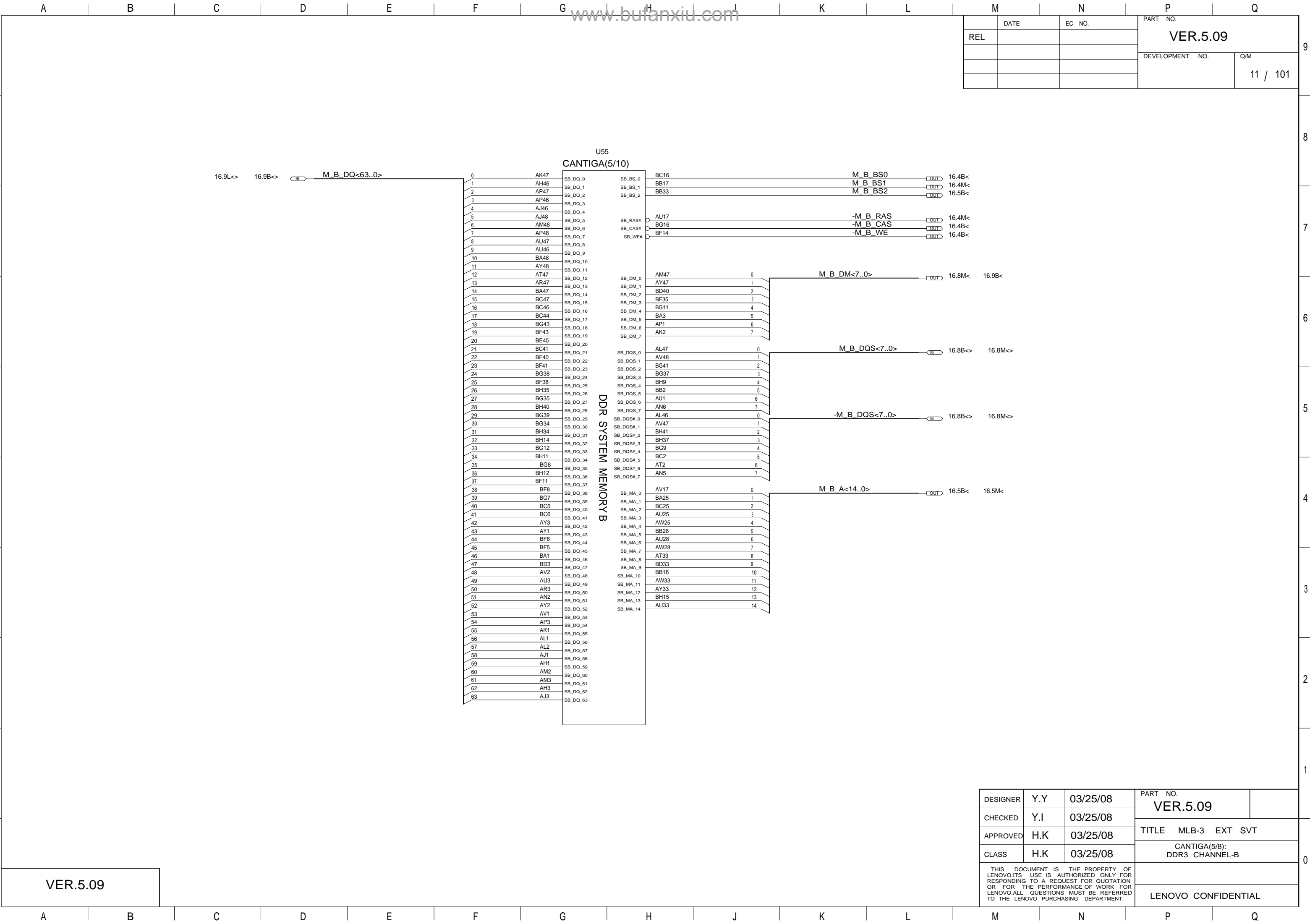


M		N	P	Q
REL		DATE	EC NO.	PART NO.
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			DEVELOPMENT NO.	Q/M
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DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	CANTIGA(3/8): PEG/GRAPHICS	
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CLASS H.K 03/25/08

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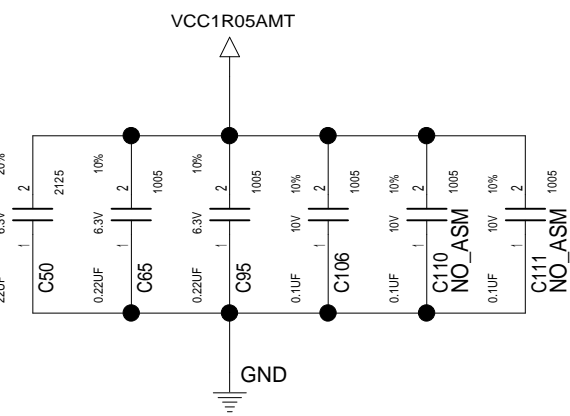
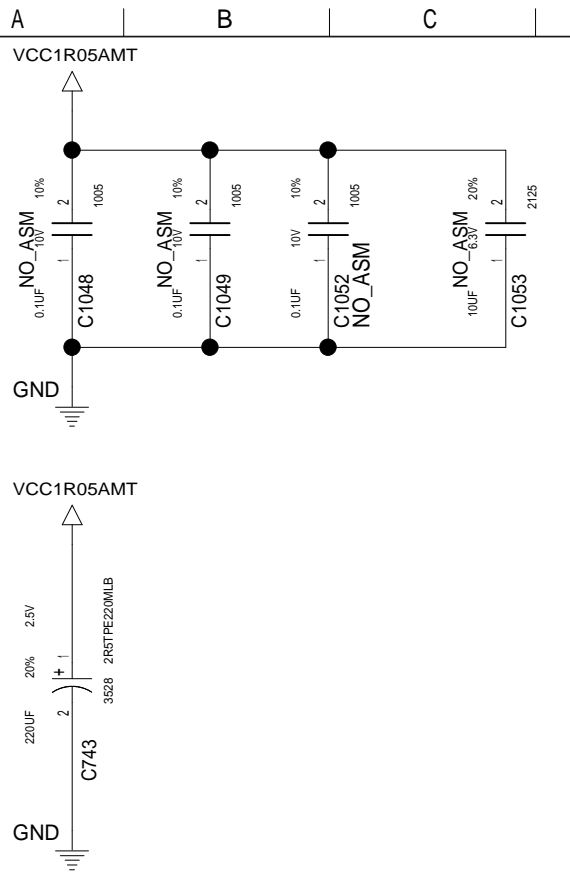
PART NO. VER.5.09

TITLE MLB-3 EXT SVT

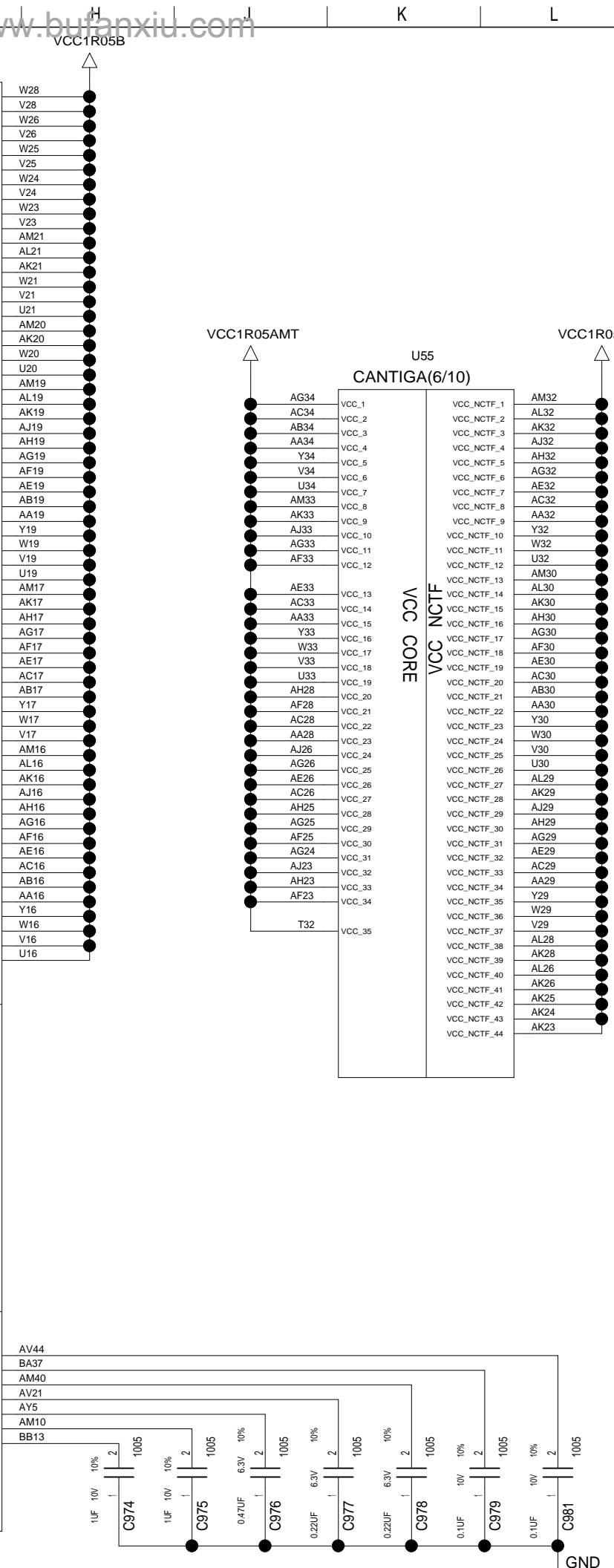
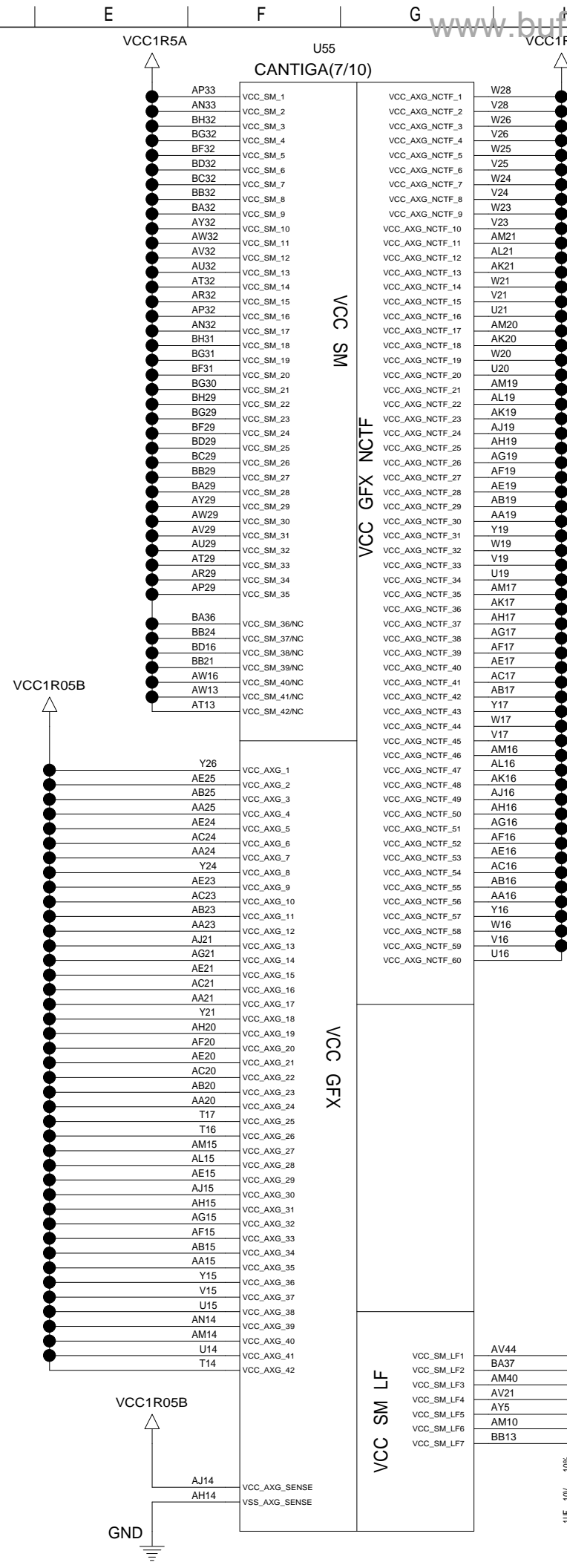
CANTIGA(5/8): DDR3 CHANNEL-B

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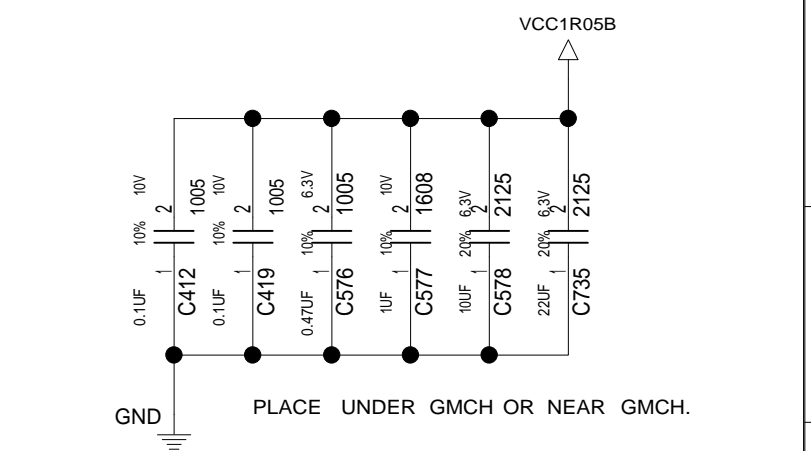
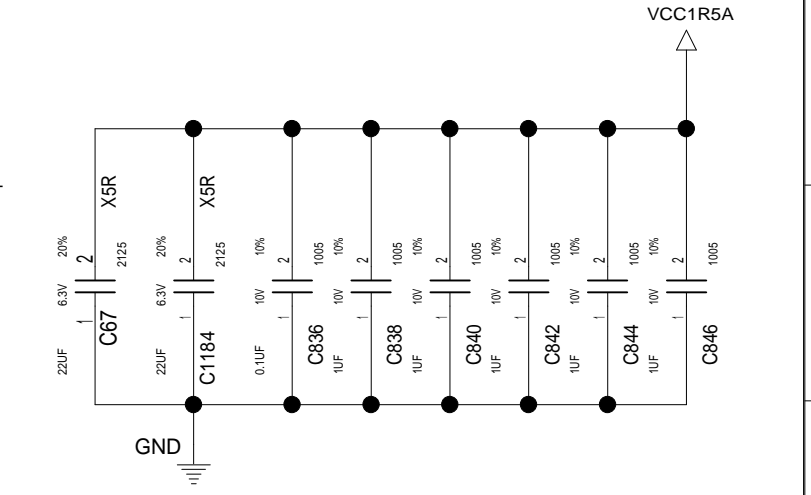
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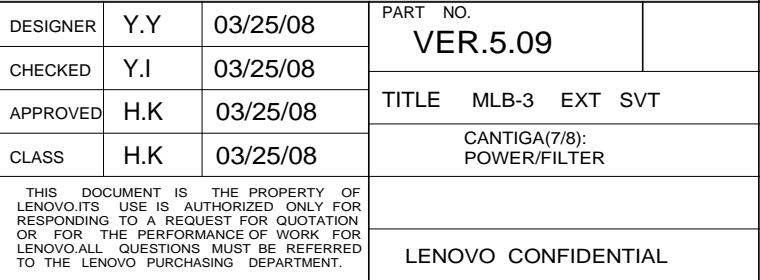
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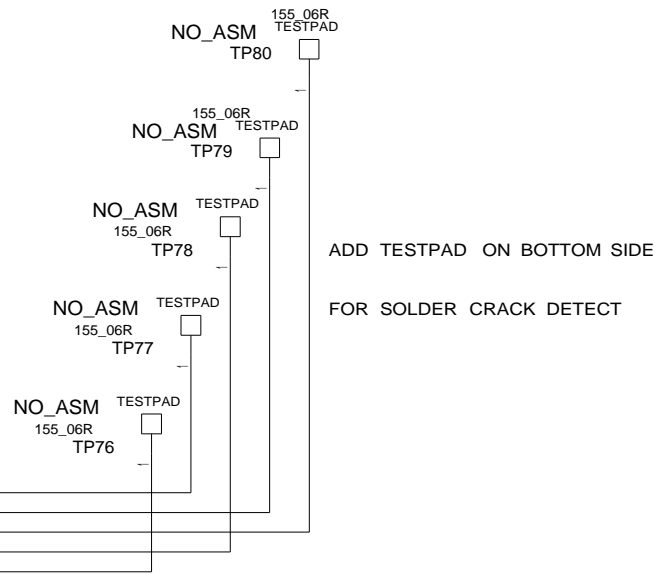


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				Q/M	
				12 / 101	

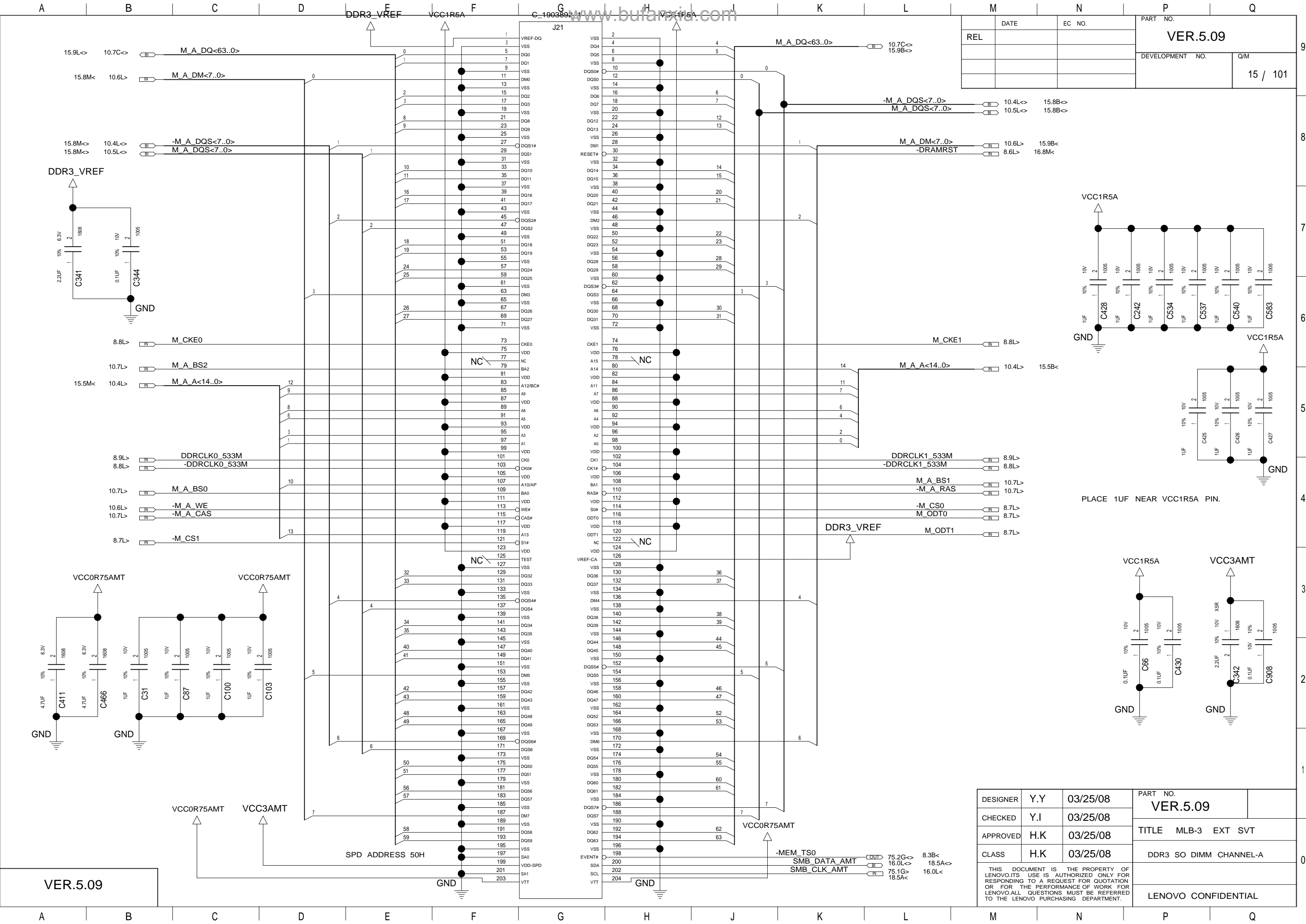


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APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	CANTIGA(6/8):POWER	
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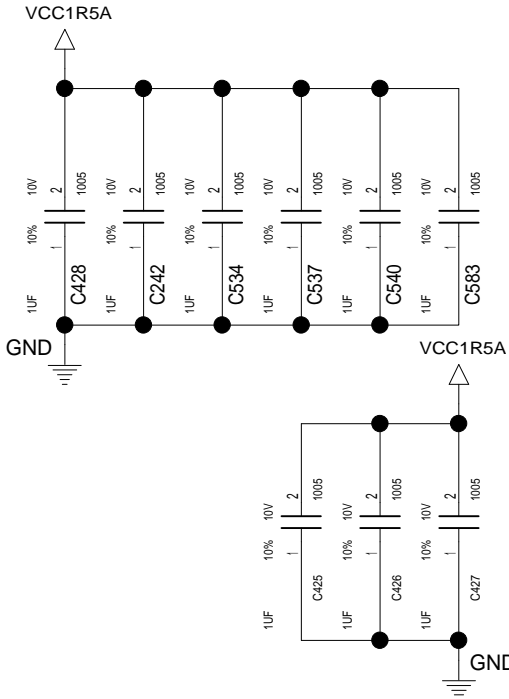




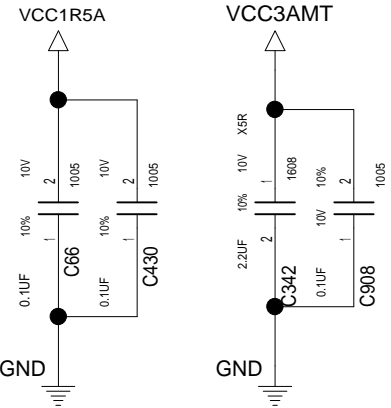
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CHECKED	Y.I	03/25/08			
APPROVED	H.K	03/25/08		TITLE    MLB-3    EXT    SVT	
CLASS	H.K	03/25/08		CANTIGA(8/8):GND	
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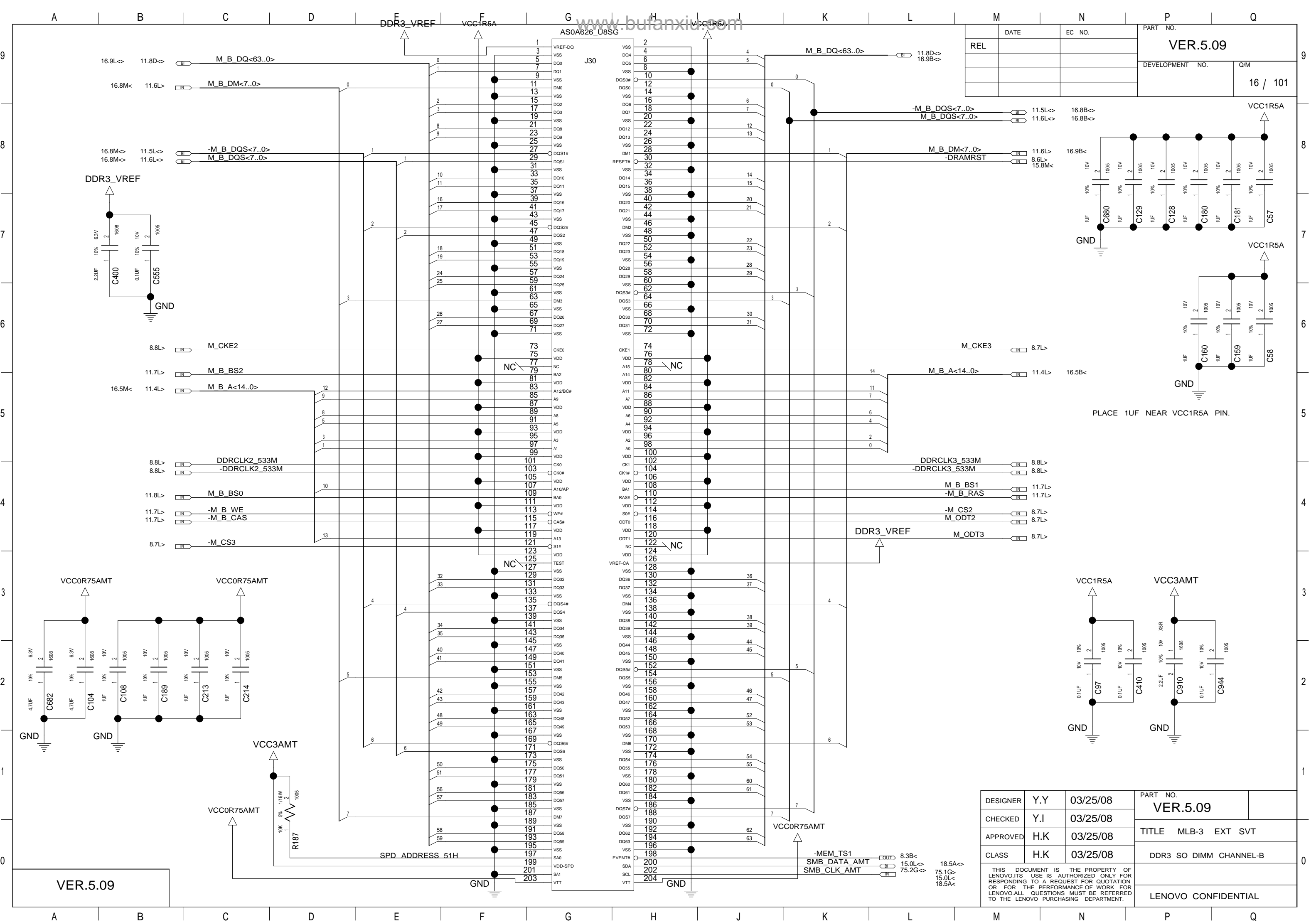
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				VER.5.09	
				DEVELOPMENT NO.	Q/M
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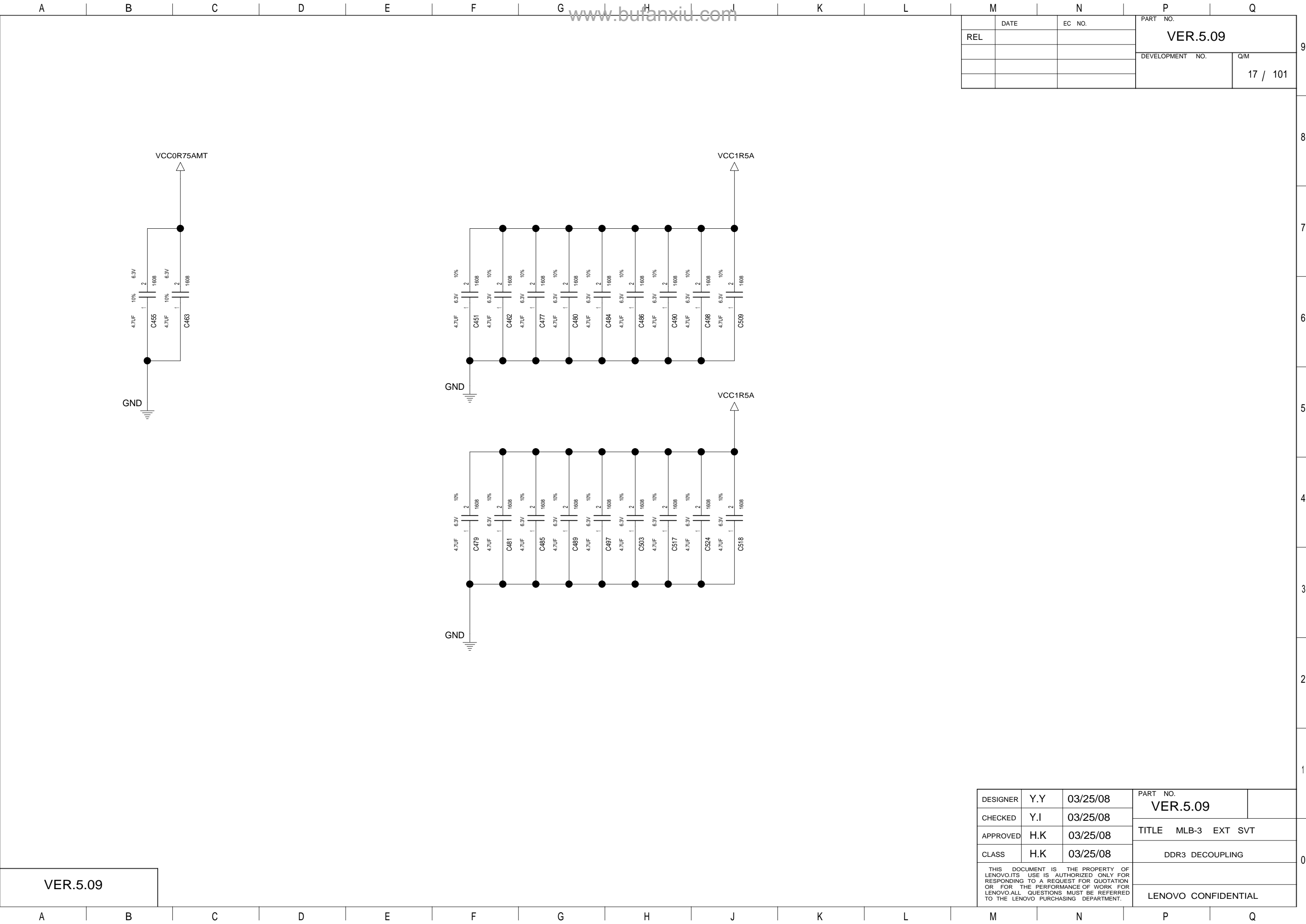
PLACE 1UF NEAR VCC1R5A PIN.



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APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	DDR3 SO DIMM CHANNEL-A	
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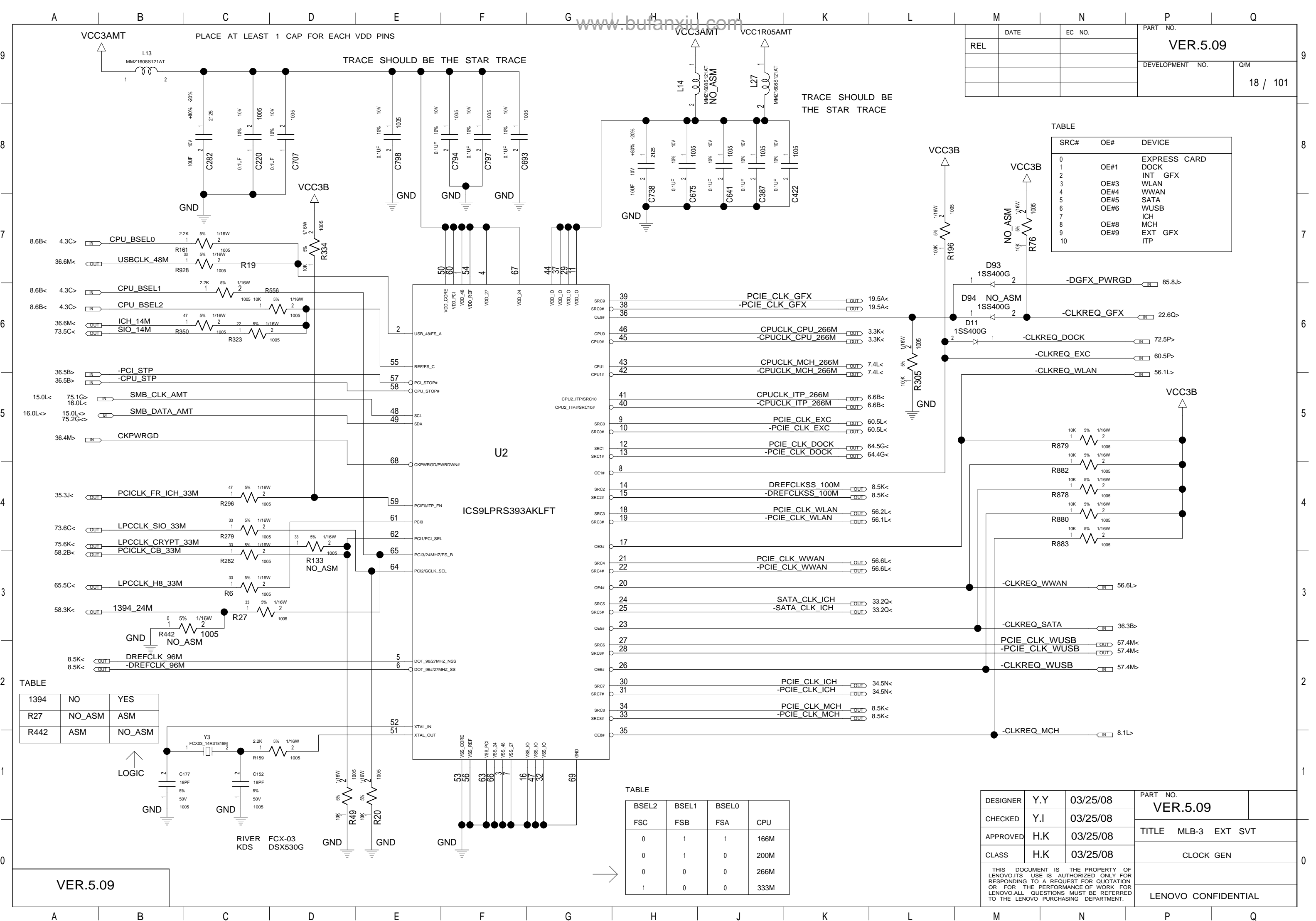




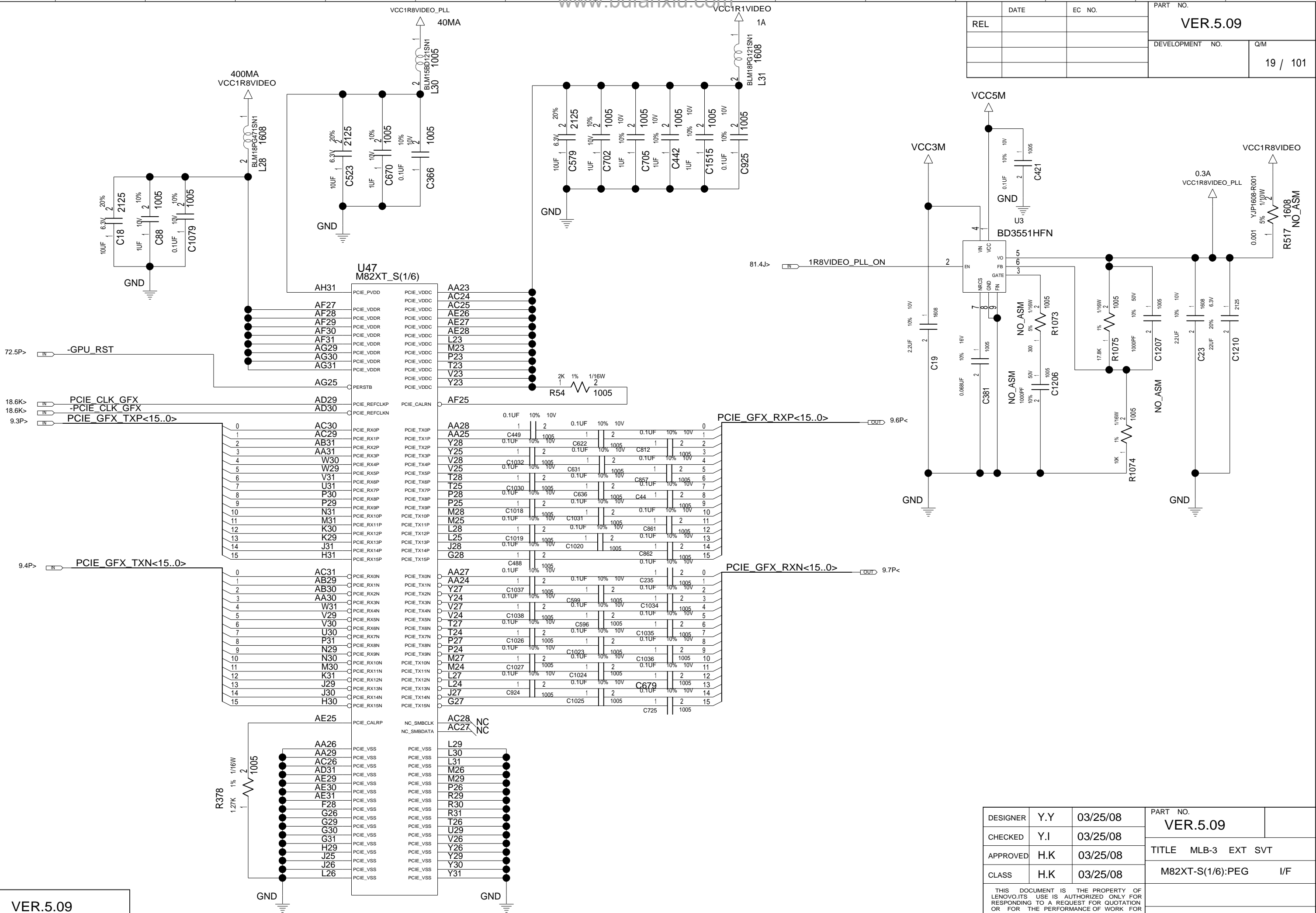
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CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	DDR3 DECOUPLING	
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			LENOVO CONFIDENTIAL	

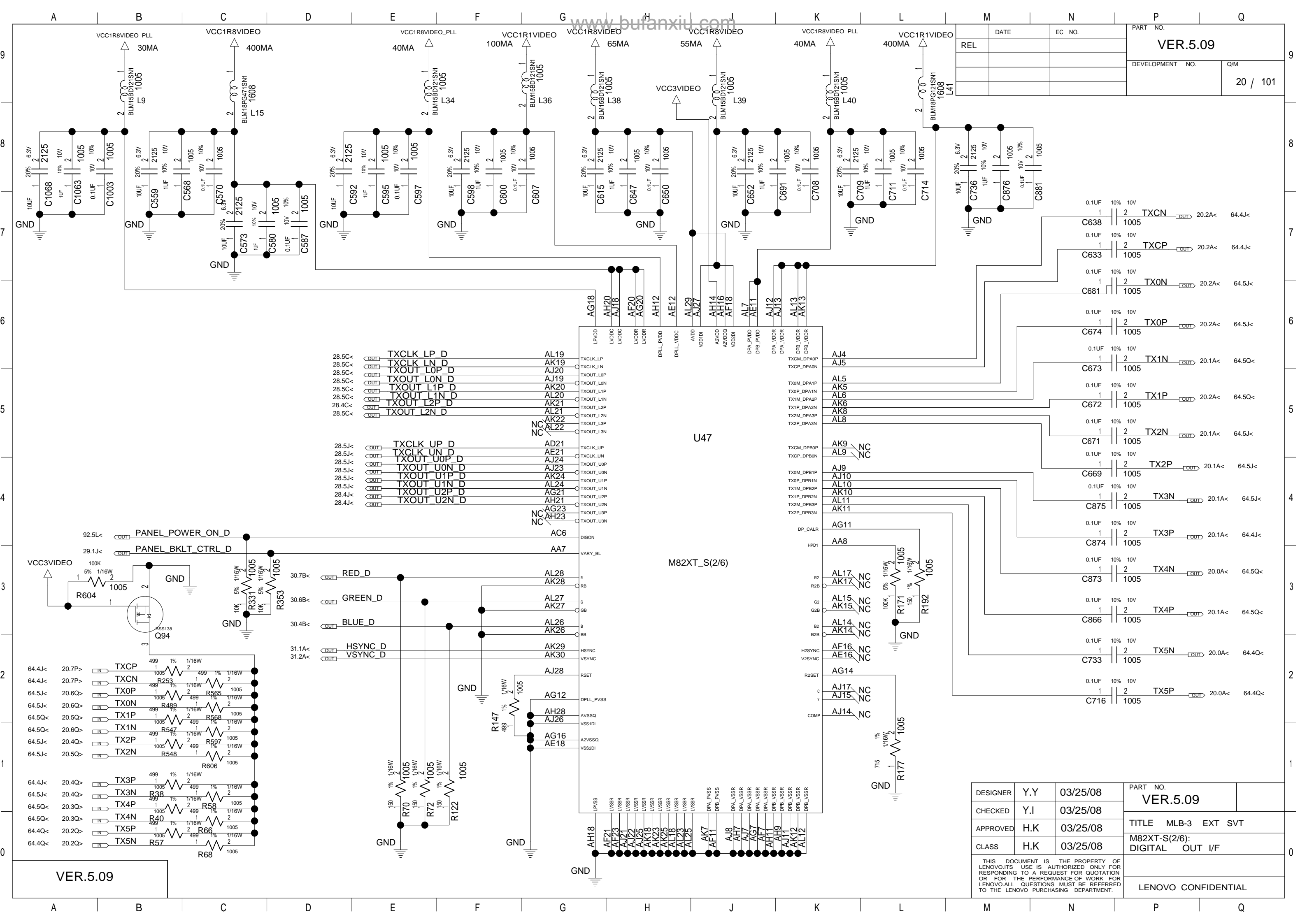


DATE		EC NO.	PART NO.	
REL			VER.5.09	
			DEVELOPMENT NO.	Q/M
			19 / 101	

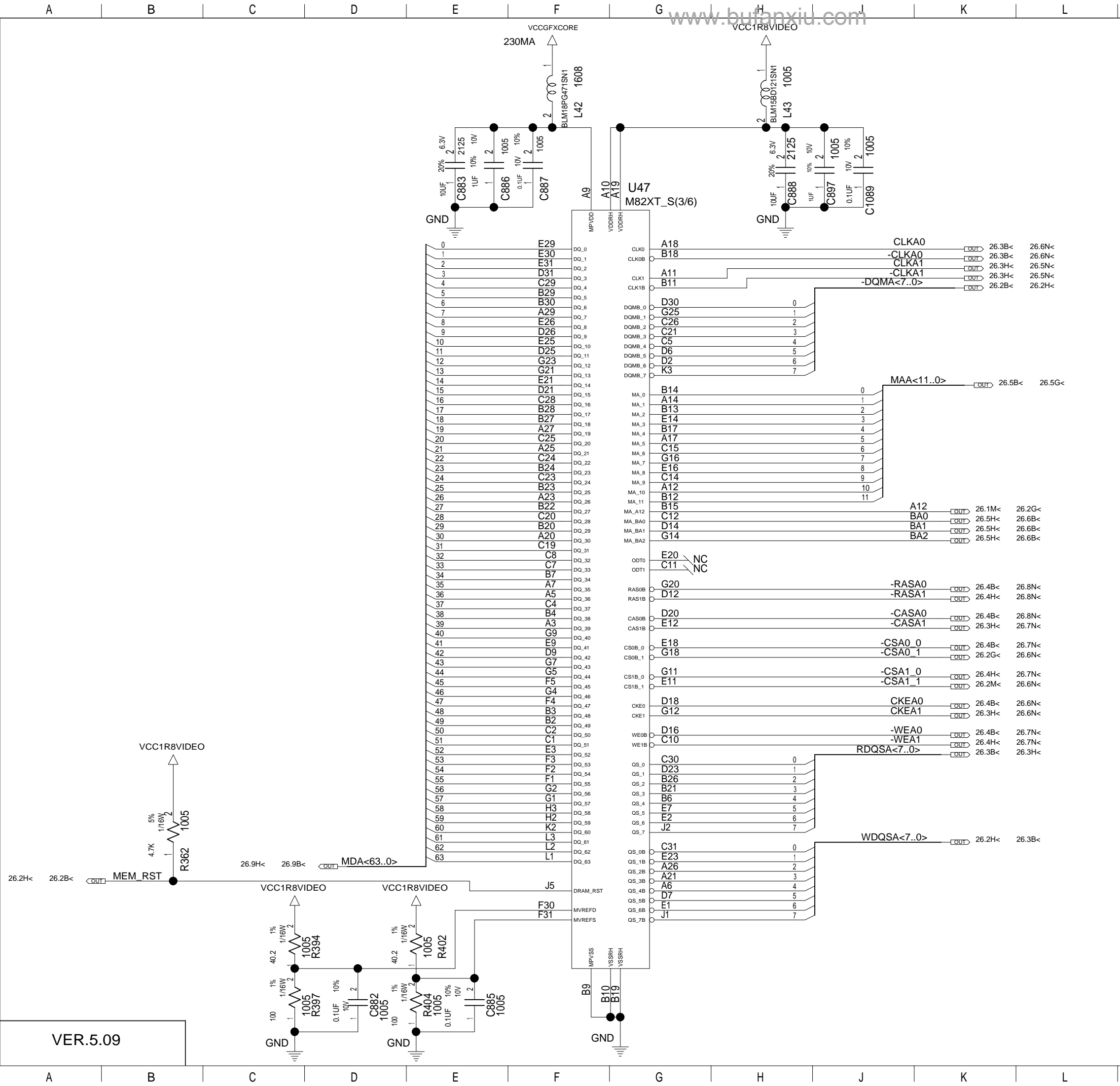


VER.5.09

DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	M82XT-S(1/6):PEG I/F	
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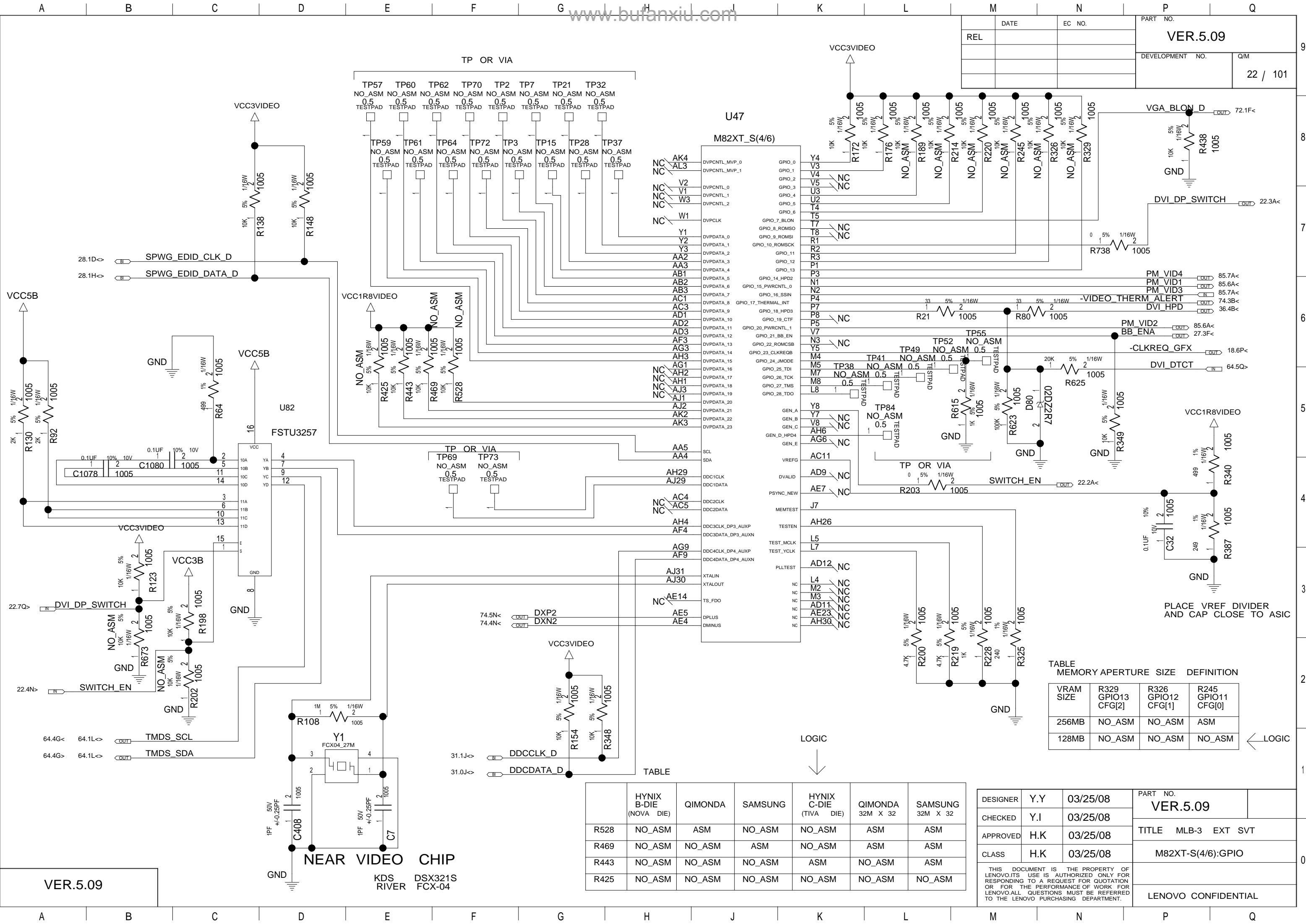


DATE		EC NO.	PART NO.	
REL			VER.5.09	
			DEVELOPMENT NO.	Q/M
				21 / 101



DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	M82XT-S(3/6):VRAM	I/F
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	DATE	EC NO.	PART NO.	
REL			VER.5.09	
			DEVELOPMENT NO.	Q/M
				22 / 101



VER.5.09

NEAR VIDEO CHIP

KDS DSX321S  
RIVER FCX-04

	HYNIX B-DIE (NOVA DIE)	QIMONDA	SAMSUNG	HYNIX C-DIE (TIVA DIE)	QIMONDA 32M X 32	SAMSUNG 32M X 32
R528	NO_ASM	ASM	NO_ASM	NO_ASM	ASM	ASM
R469	NO_ASM	NO_ASM	ASM	NO_ASM	ASM	ASM
R443	NO_ASM	NO_ASM	NO_ASM	ASM	NO_ASM	ASM
R425	NO_ASM	NO_ASM	NO_ASM	NO_ASM	NO_ASM	NO_ASM

DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	M82XT-S(4/6):GPIO	
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VRAM SIZE	R329 GPIO13 CFG[2]	R326 GPIO12 CFG[1]	R245 GPIO11 CFG[0]
256MB	NO_ASM	NO_ASM	ASM
128MB	NO_ASM	NO_ASM	NO_ASM

PLACE VREF DIVIDER  
AND CAP CLOSE TO ASIC

LOGIC

TABLE

74.5N<  
74.4N<

31.1J<  
31.0J<

PM\_VID4 85.7A<  
PM\_VID1 85.6A<  
PM\_VID3 85.7A<  
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DVI\_HP D 36.4B<

PM\_VID2 85.6A<  
BB\_ENA 27.3F<

-CLKREQ GFX 18.6P<  
DVI\_DTCT 64.5Q<

VCC1R8VIDEO

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R387 1005

R349 1005

R625 1005

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R219 1005

R228 1005

R325 1005

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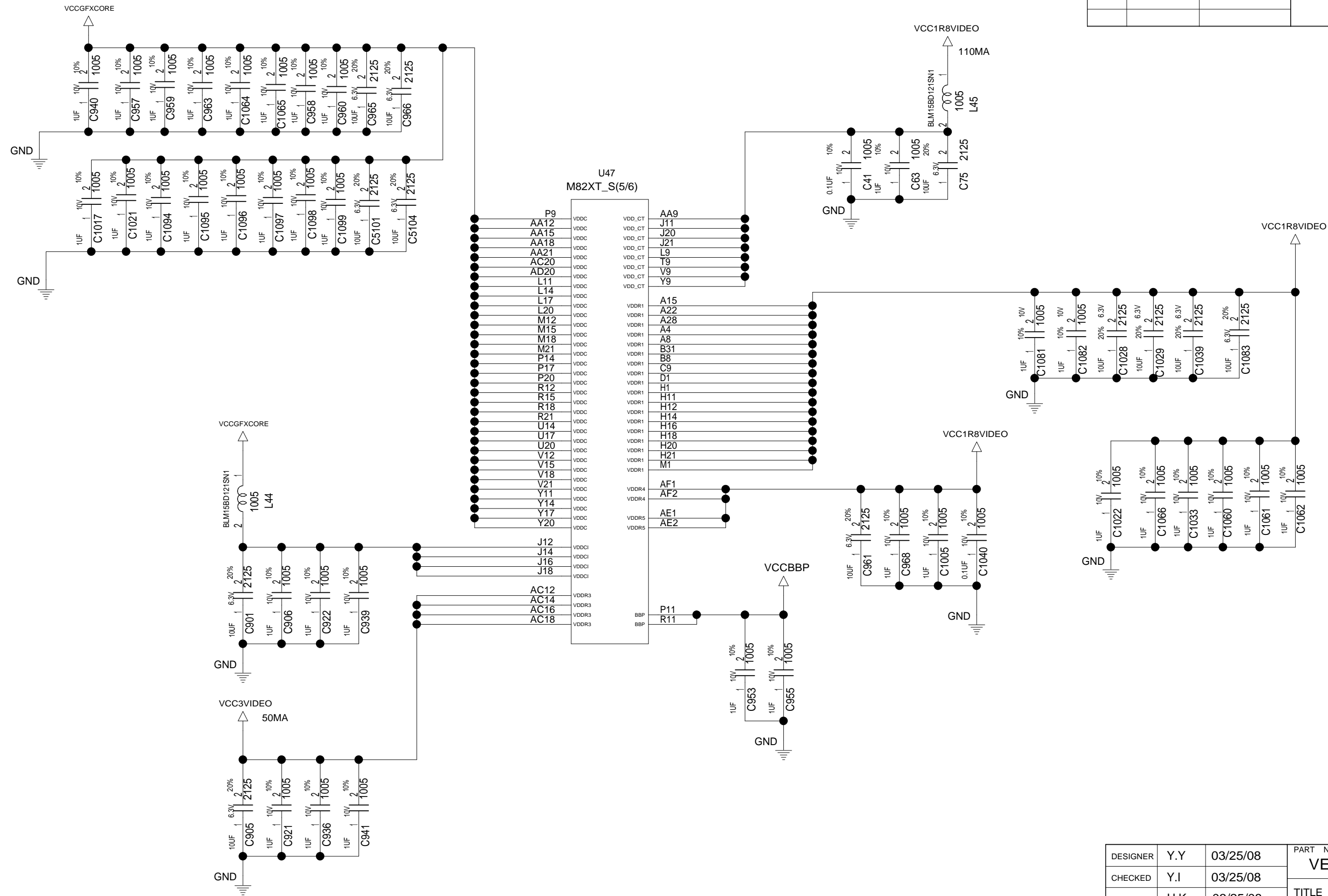
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R228 1005

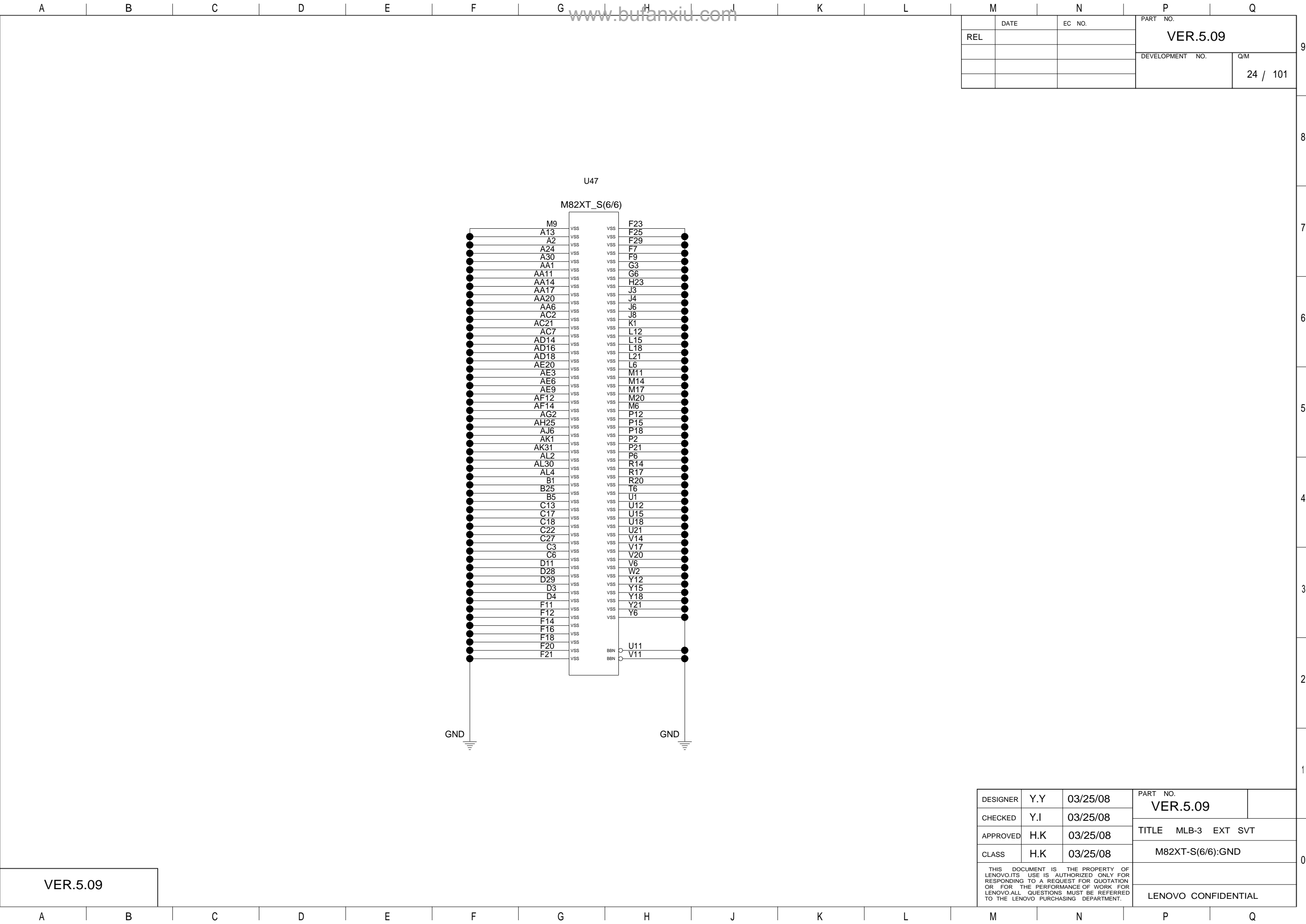
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				23 / 101	



VER.5.09

DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	M82XT-S(5/6):POWER	
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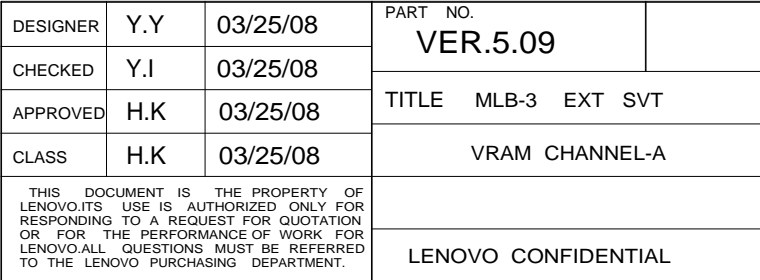
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			24 / 101	

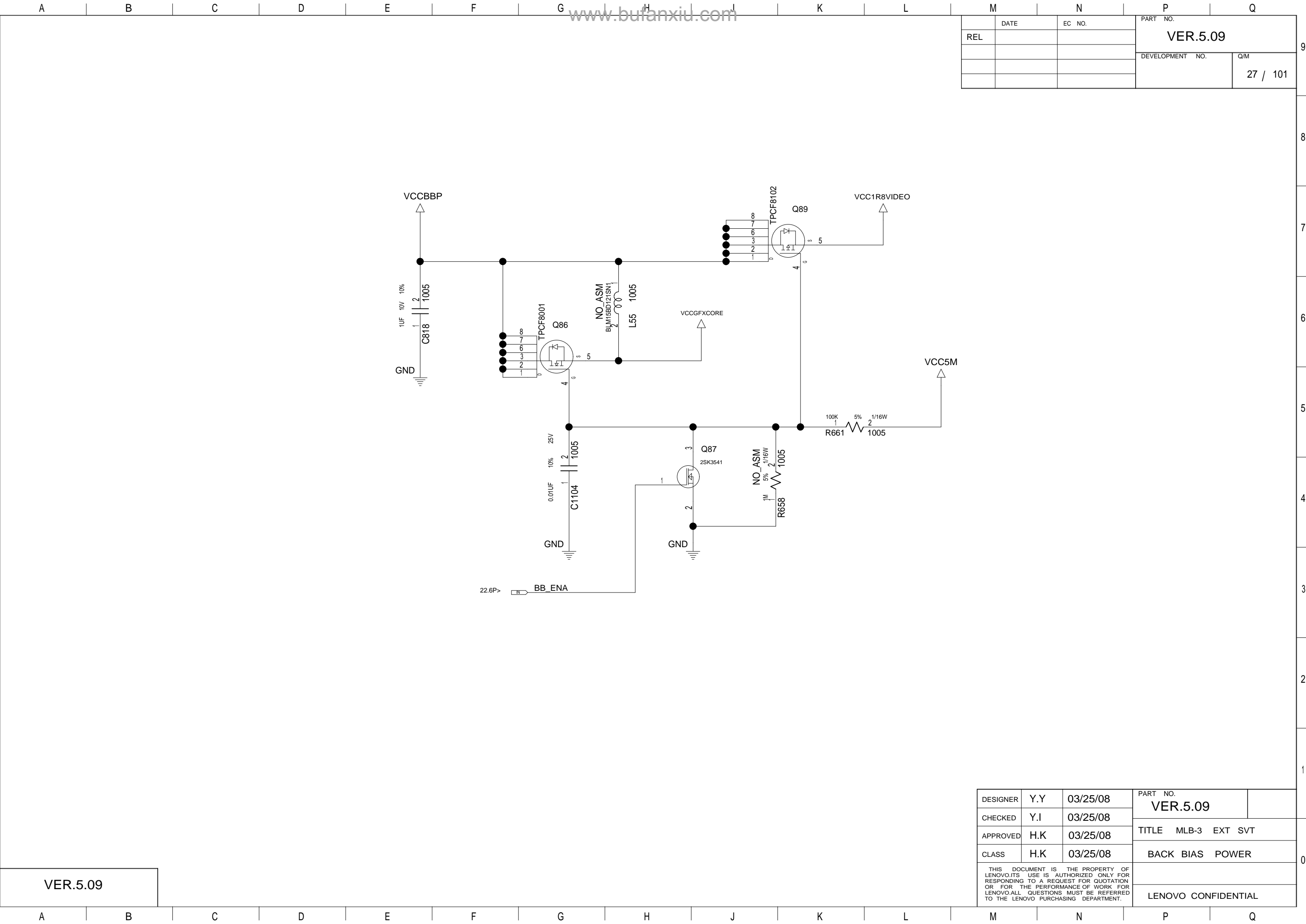
VER.5.09

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CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	M82XT-S(6/6):GND	
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			LENOVO CONFIDENTIAL	







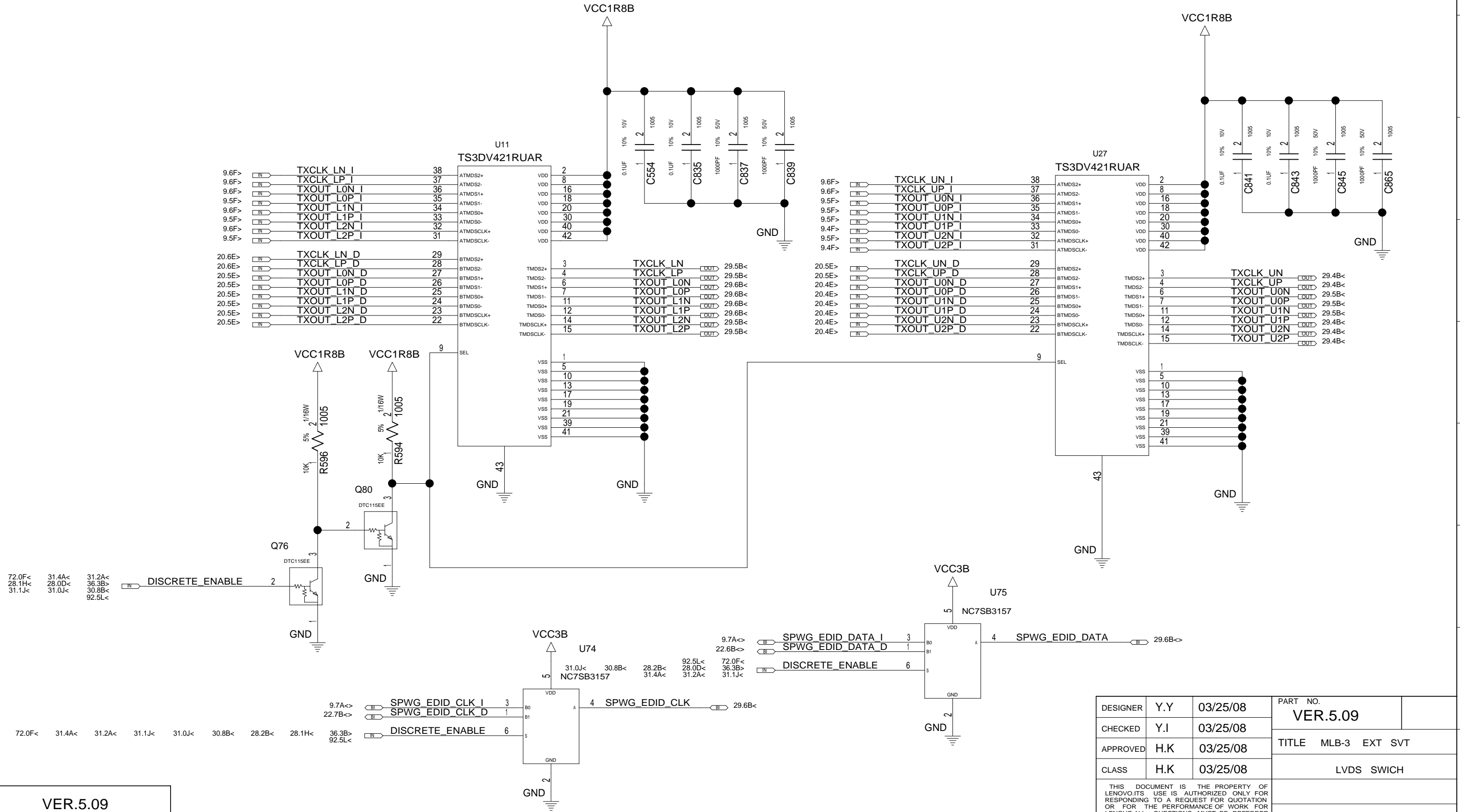


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						27 / 101	

VER.5.09

DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	BACK BIAS POWER	
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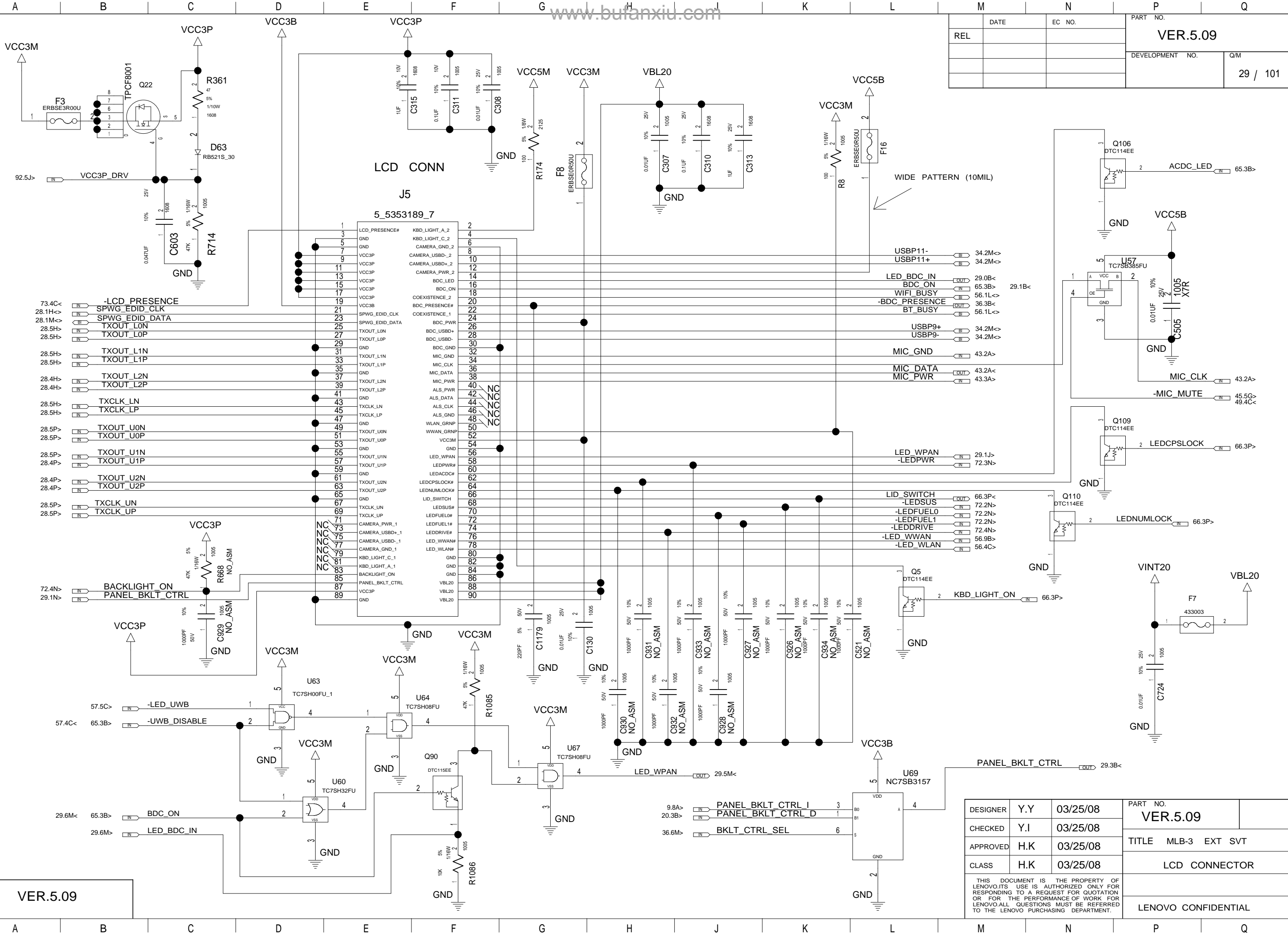
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REL			VER.5.09	
			DEVELOPMENT NO.	
			Q/M	
			28 / 101	



VER.5.09

DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	LVDS SWICH	
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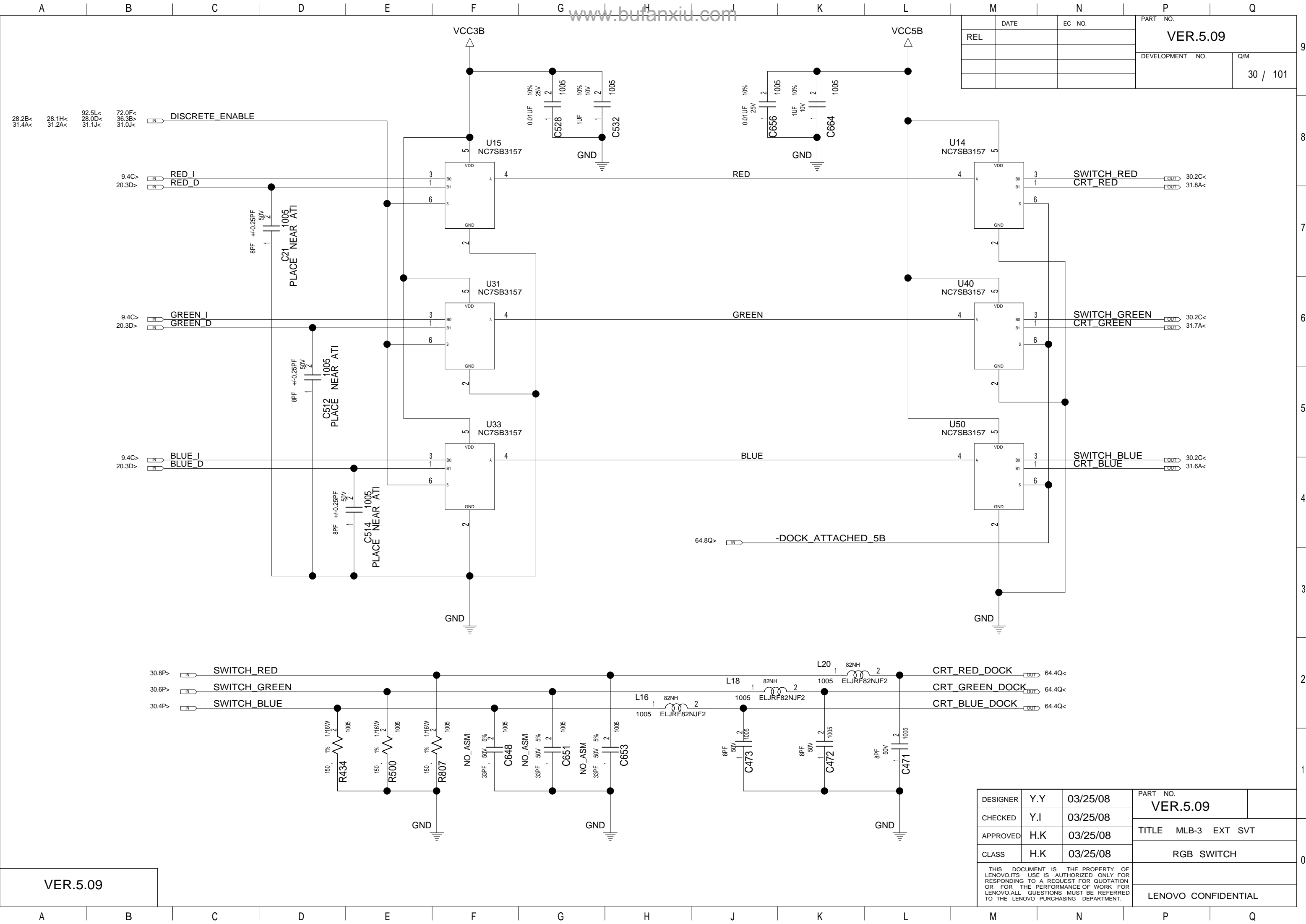
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REL			VER.5.09	
			DEVELOPMENT NO.	Q/M
				29 / 101



VER.5.09

DESIGNER	Y.Y	03/25/08	PART NO.	VER.5.09
CHECKED	Y.I	03/25/08	TITLE	MLB-3 EXT SVT
APPROVED	H.K	03/25/08		LCD CONNECTOR
CLASS	H.K	03/25/08		LENOVO CONFIDENTIAL

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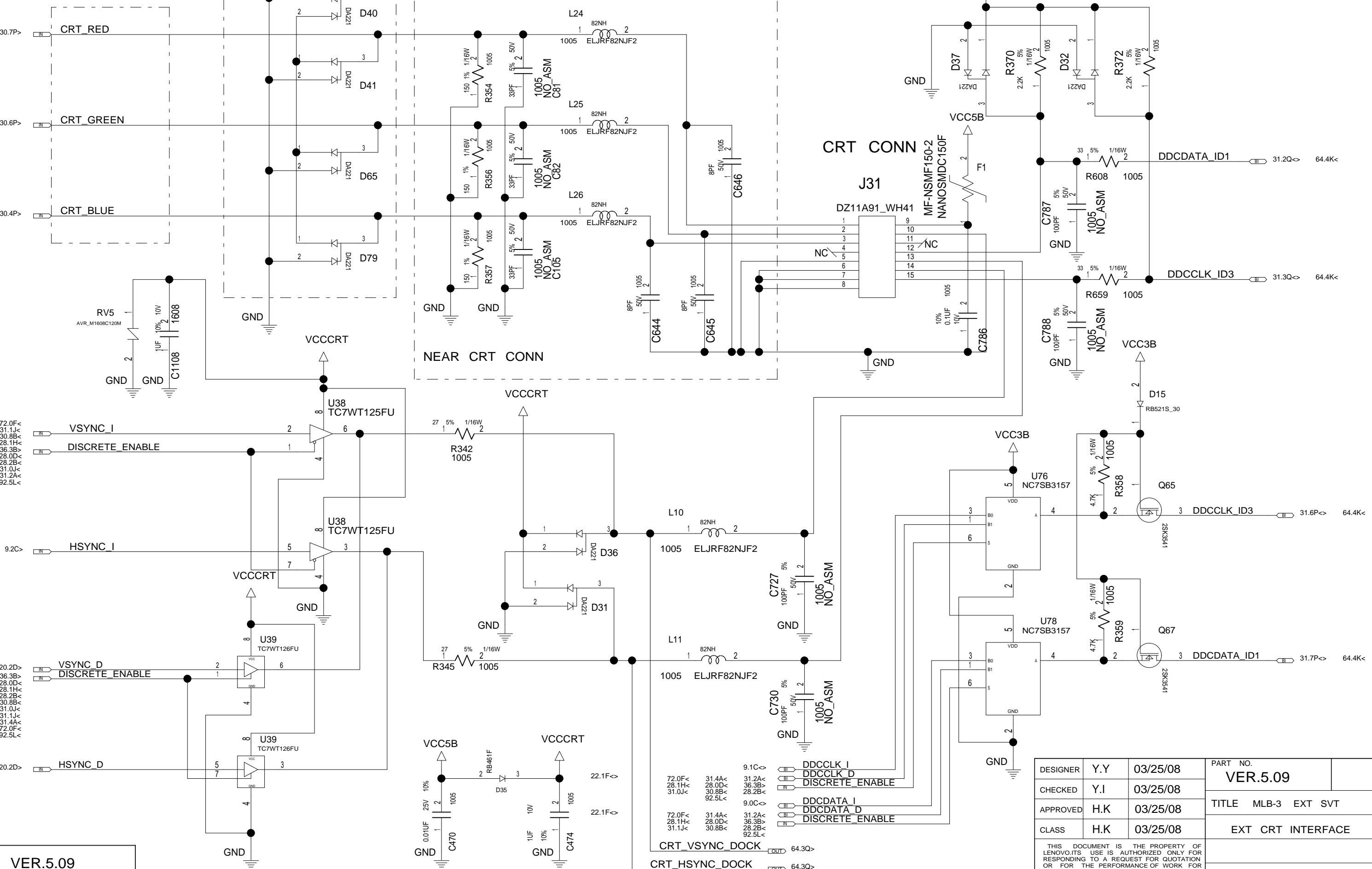


DATE		EC NO.		PART NO.	
REL				VER.5.09	
				DEVELOPMENT NO.	
				Q/M	
				30 / 101	

VER.5.09

DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	RGB SWITCH	
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			LENOVO CONFIDENTIAL	

GND GUARDING  
EACH SIGNAL WIDTH=4MIL,  
SPACING=8MIL



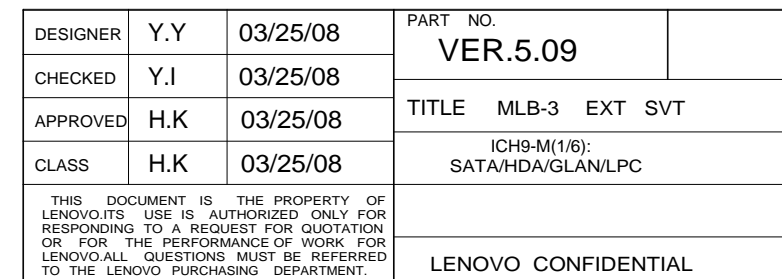
VER.5.09

DESIGNER	Y.Y	03/25/08	PART NO.	VER.5.09
CHECKED	Y.I	03/25/08	TITLE	MLB-3 EXT SVT
APPROVED	H.K	03/25/08	EXT CRT INTERFACE	
CLASS	H.K	03/25/08	LENOVO CONFIDENTIAL	

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A		B		C		D		E		F		G		H		I		K		L		M		N		P		Q							
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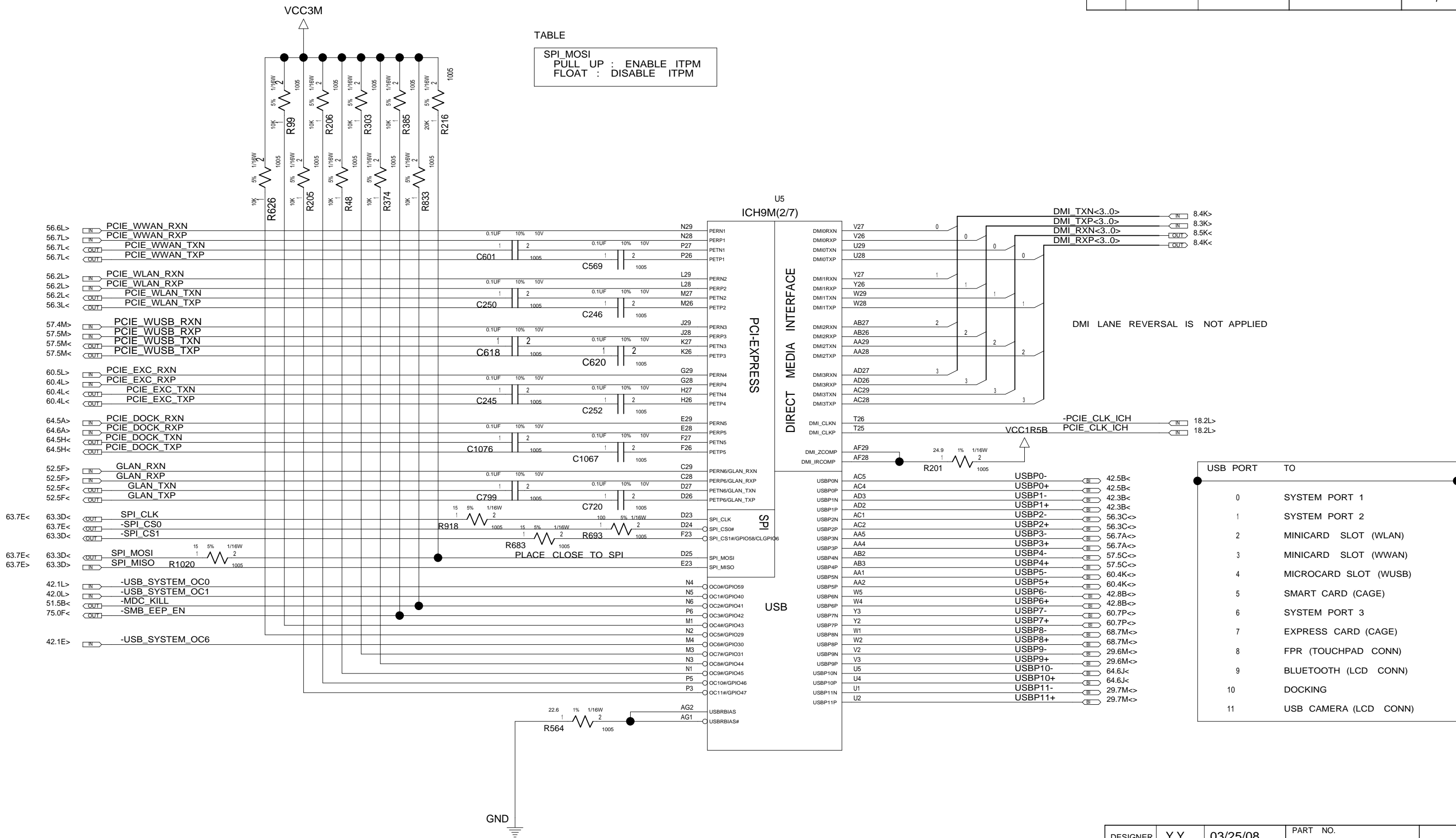




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DATE		EC NO.	PART NO.		
REL			VER.5.09		
			DEVELOPMENT NO.		Q/M
					34 / 101

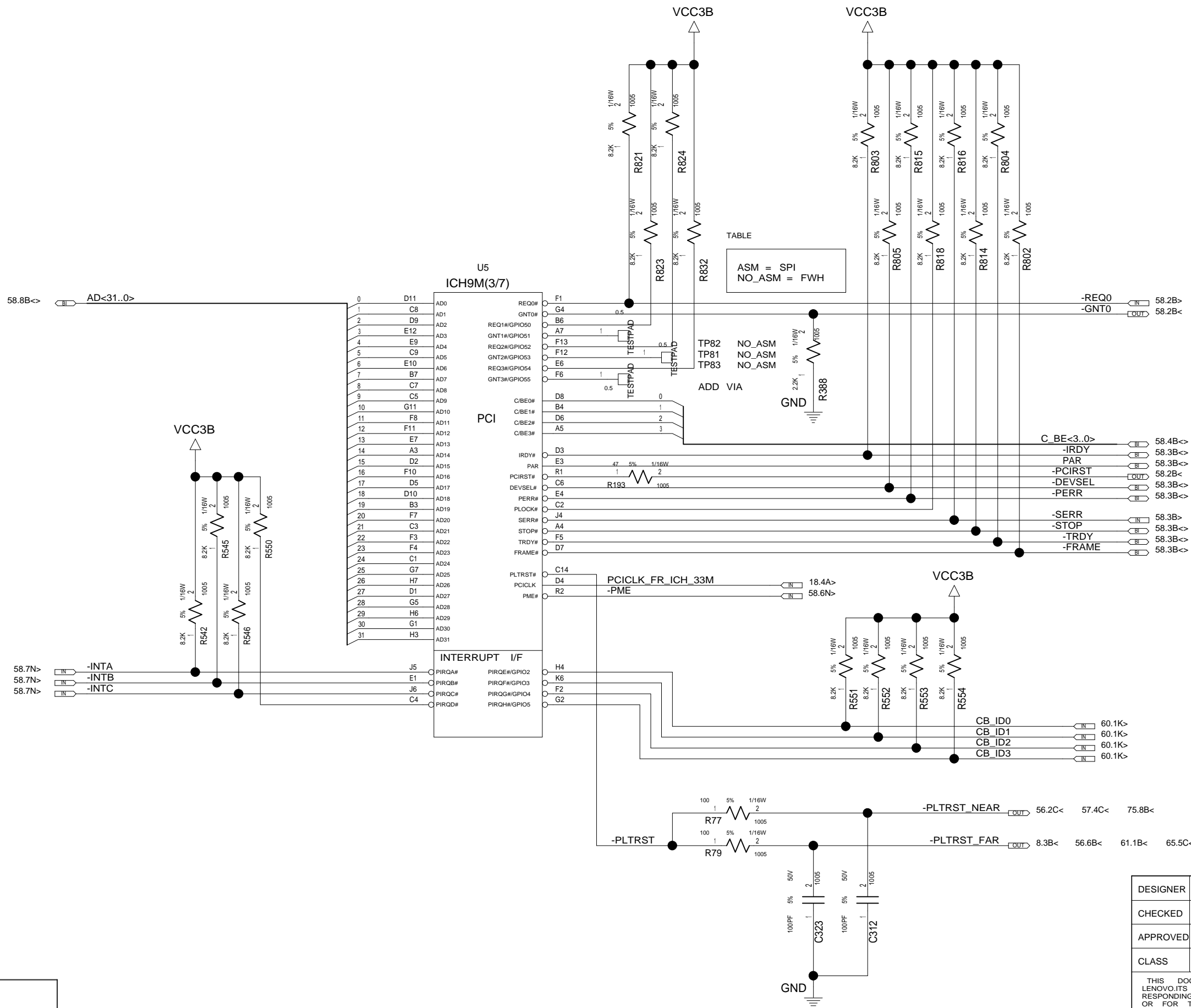
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FLOAT : DISABLE ITPM



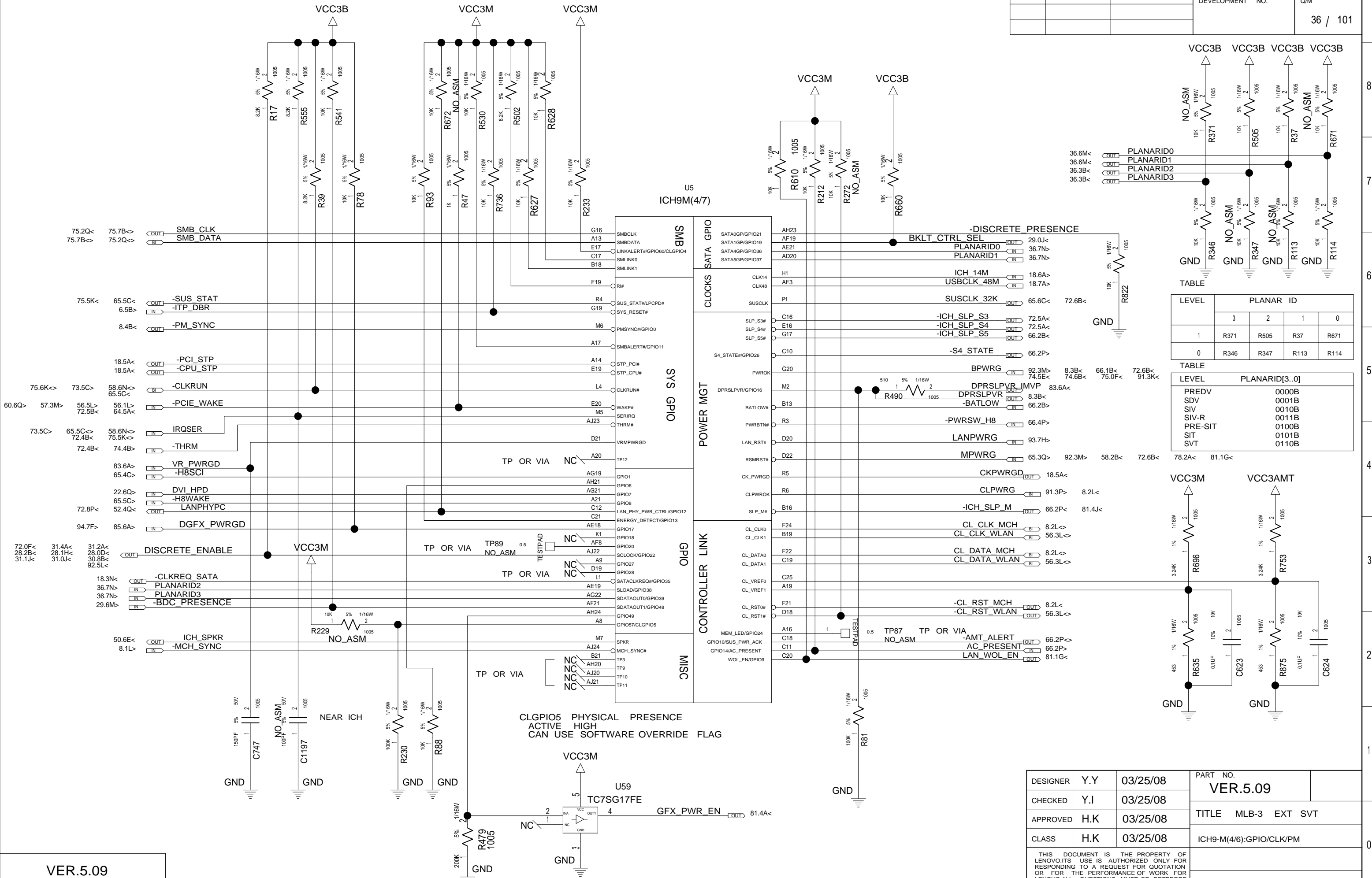
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CLASS	H.K	03/25/08	ICH9-M(2/6): DMI/PCIE/USB/SPI	
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DATE		EC NO.		PART NO.	
REL				VER.5.09	
				DEVELOPMENT NO.	
				Q/M	
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DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	ICH9-M(3/6): PCI/INTERRUPT	
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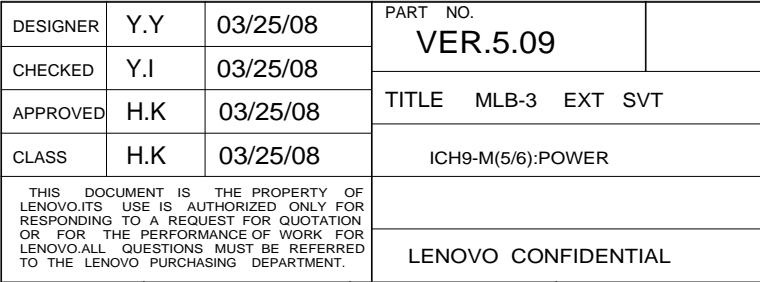
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REL			VER.5.09	
			DEVELOPMENT NO.	Q/M
				36 / 101

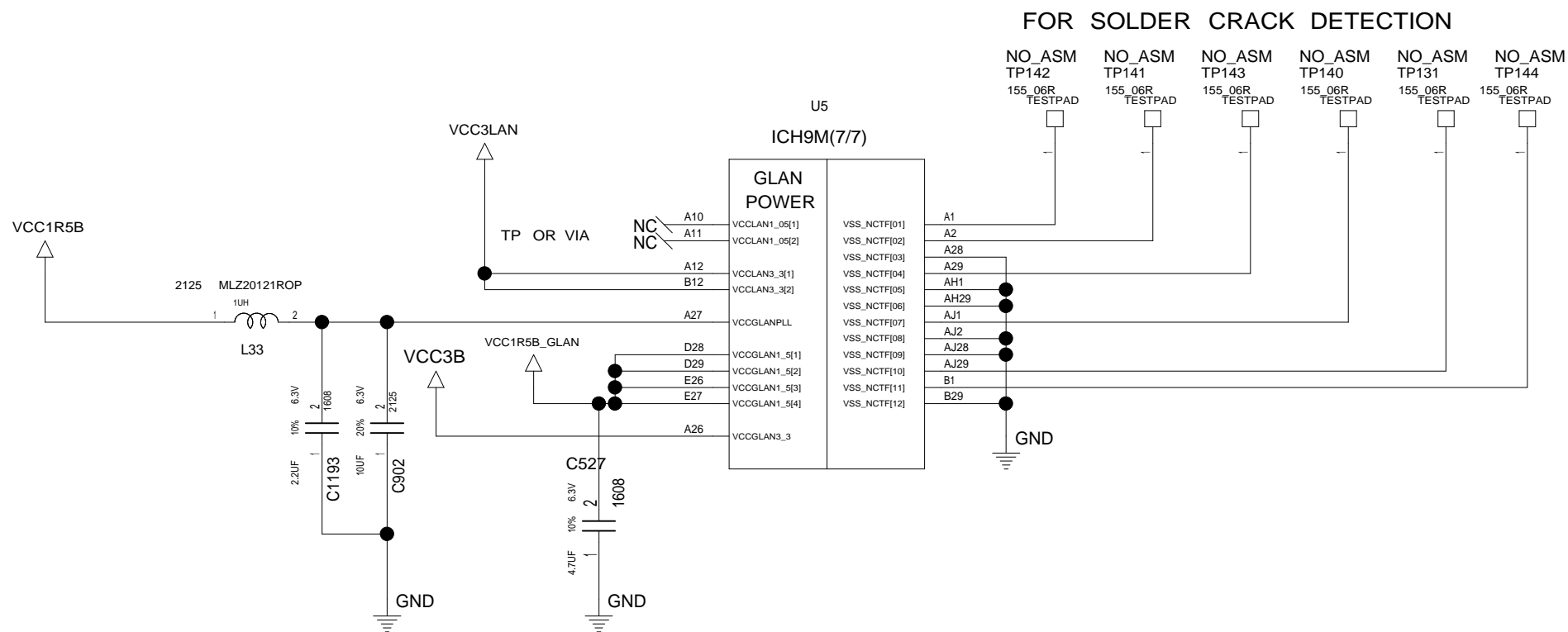
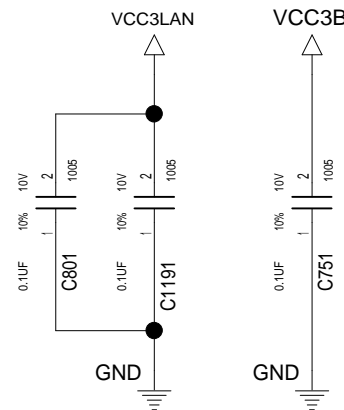


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0	R346	R347	R113	R114

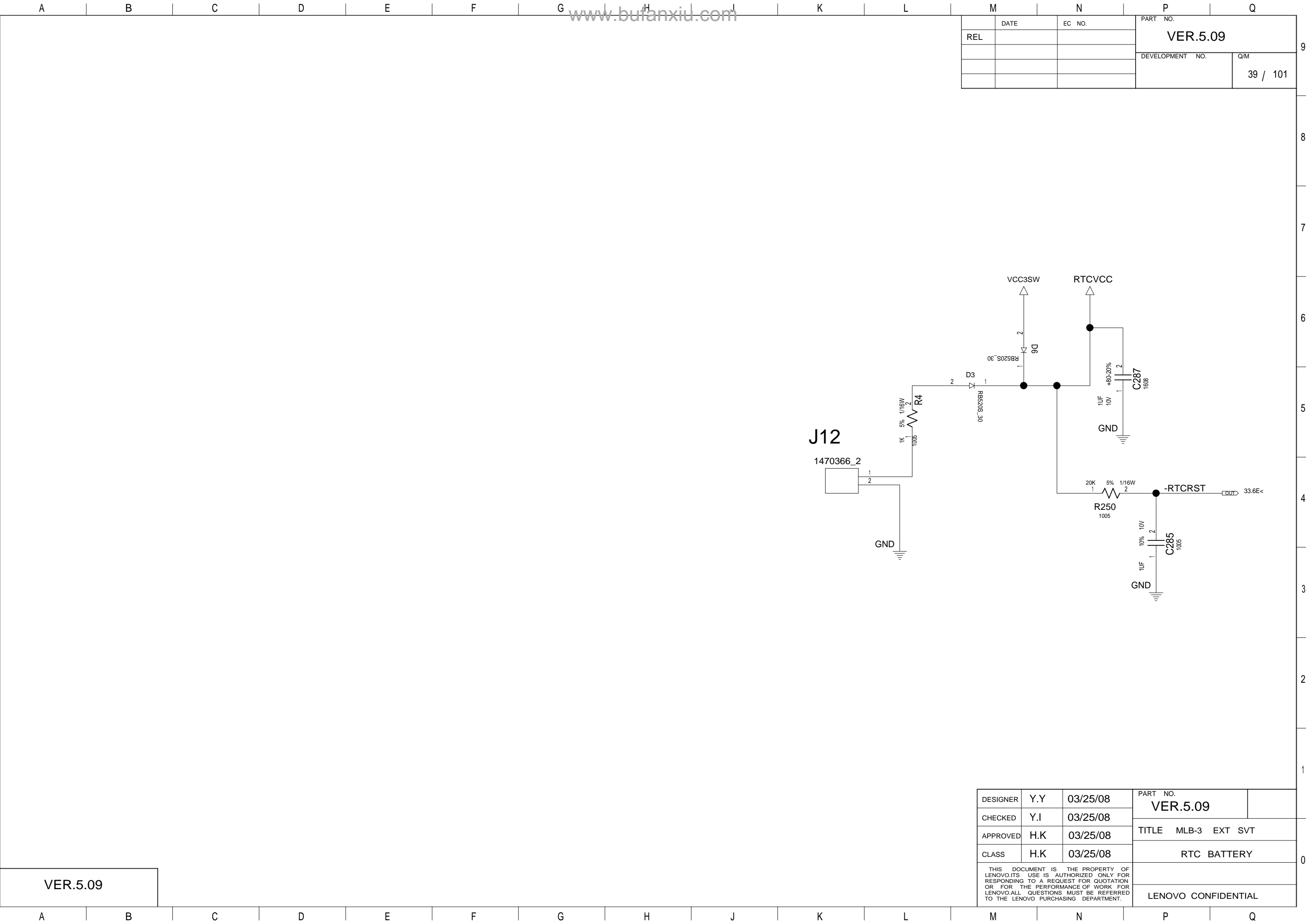
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	PREDV	SDV	SIV	SIV-R
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1	0100B	0101B	0110B	0111B

DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	ICH9-M(4/6):GPIO/CLK/PM	
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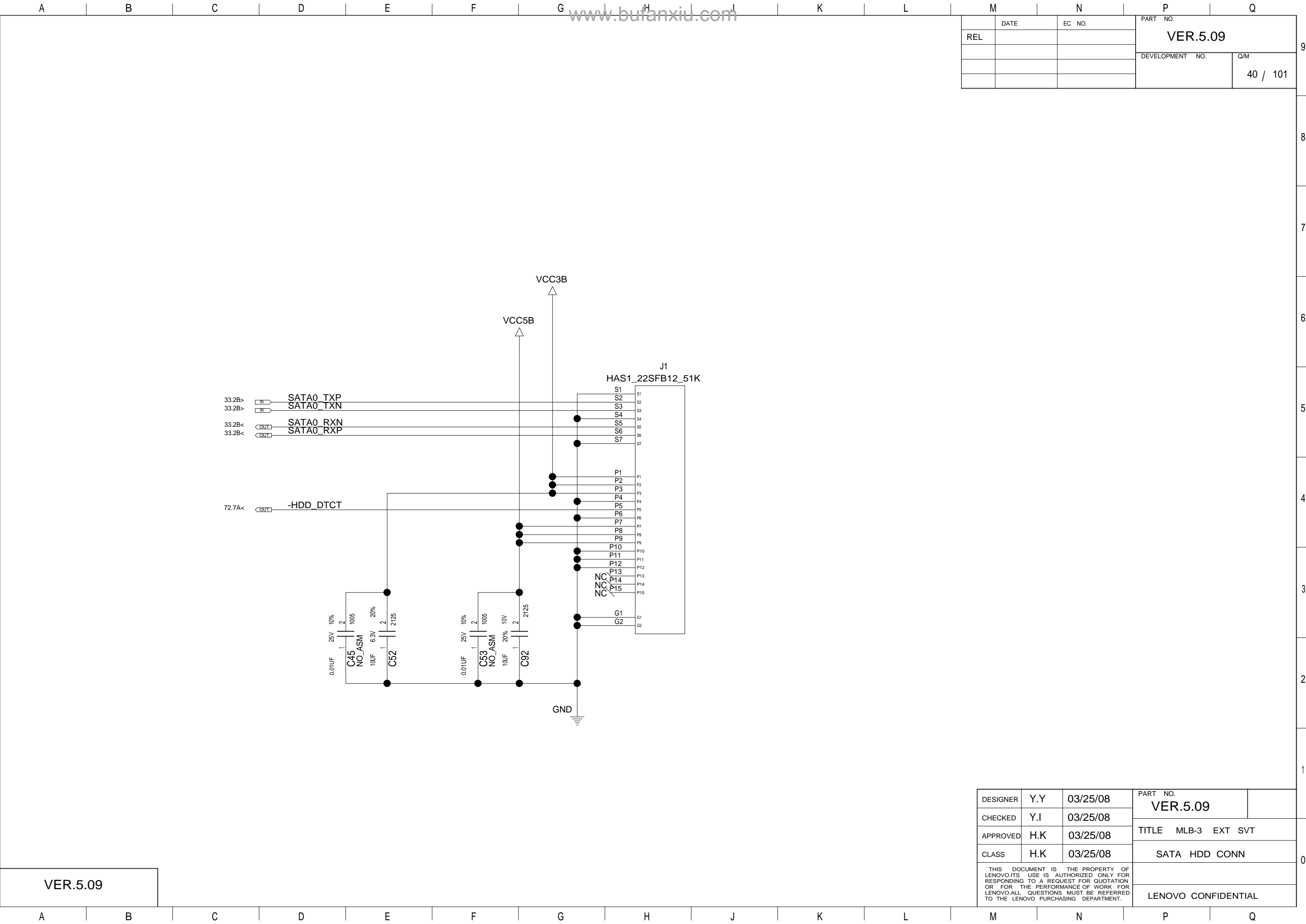


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CHECKED	Y.I	03/25/08		
APPROVED	H.K	03/25/08	TITLE    MLB-3    EXT    SVT	
CLASS	H.K	03/25/08	ICH9-M(6/6):GND	
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	DATE	EC NO.	PART NO.	
REL			VER.5.09	
			DEVELOPMENT NO.	Q/M
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DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE    MLB-3    EXT SVT	
CLASS	H.K	03/25/08	RTC BATTERY	
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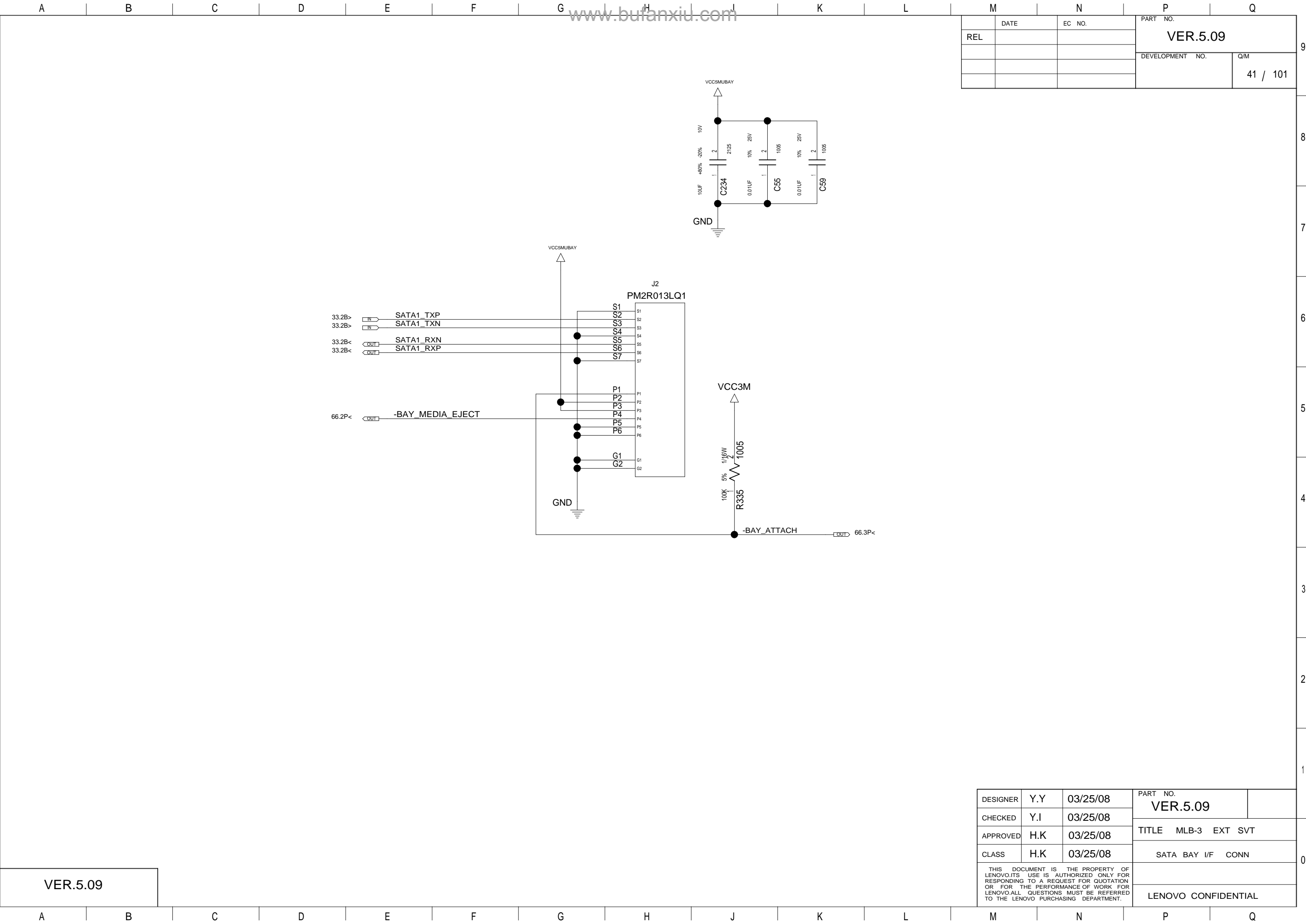


M		N		P		Q	
	DATE	EC NO.		PART NO.			
REL				VER.5.09			
				DEVELOPMENT NO.			
						Q/M	
						40 / 101	

VER.5.09

DESIGNER	Y.Y	03/25/08	PART NO.		VER.5.09	
CHECKED	Y.I	03/25/08				
APPROVED	H.K	03/25/08	TITLE    MLB-3    EXT    SVT			
CLASS	H.K	03/25/08	SATA    HDD    CONN			
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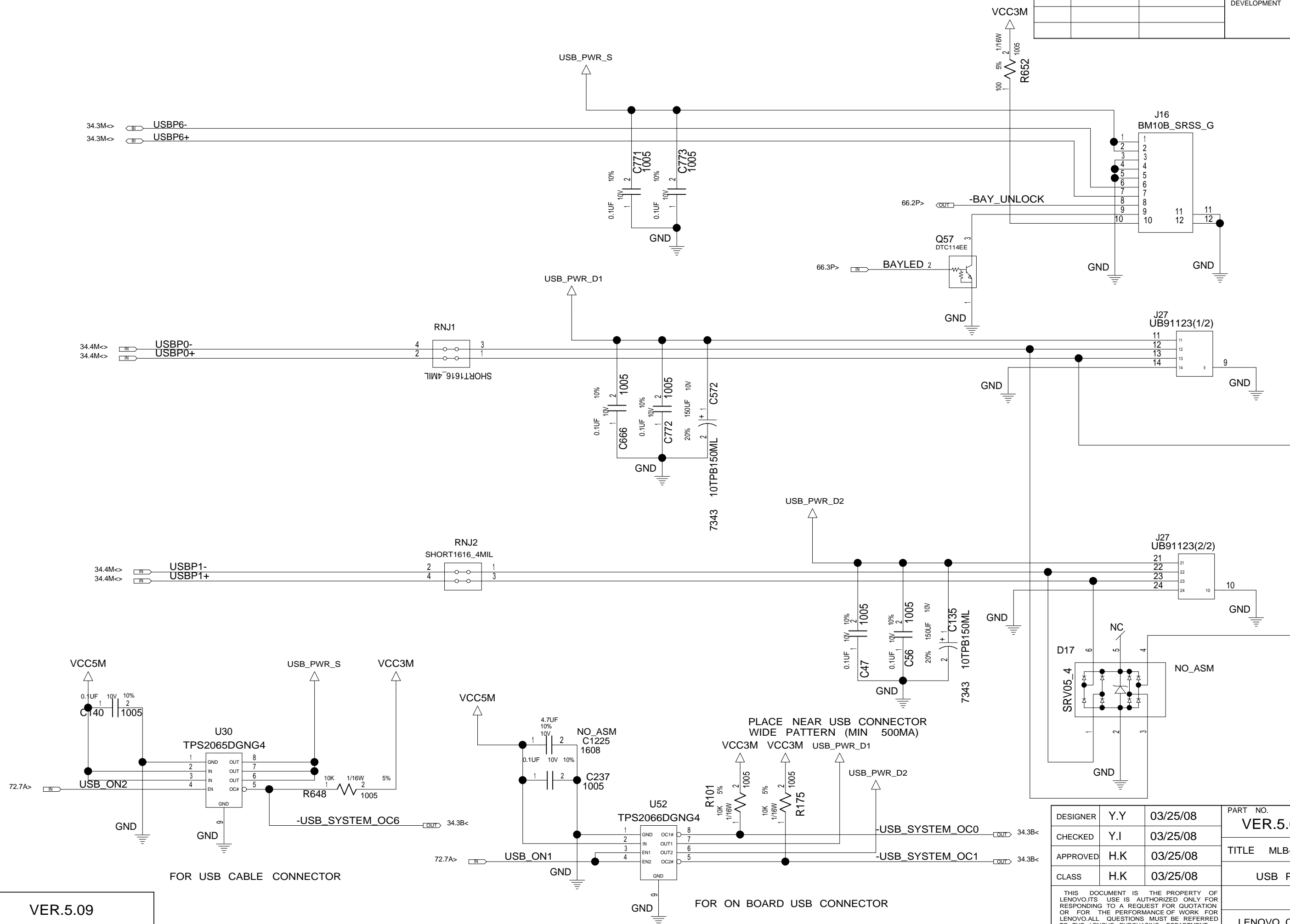


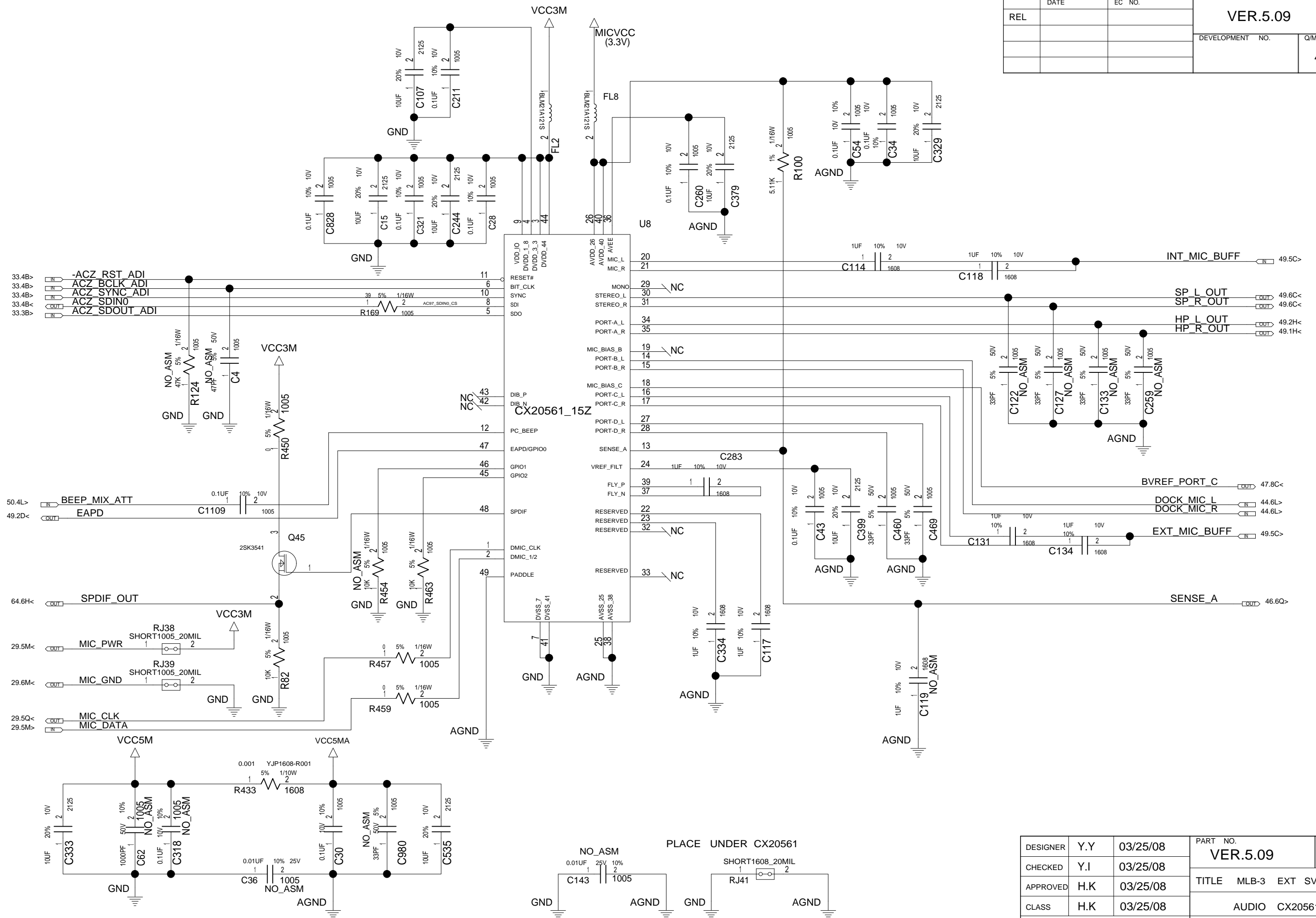


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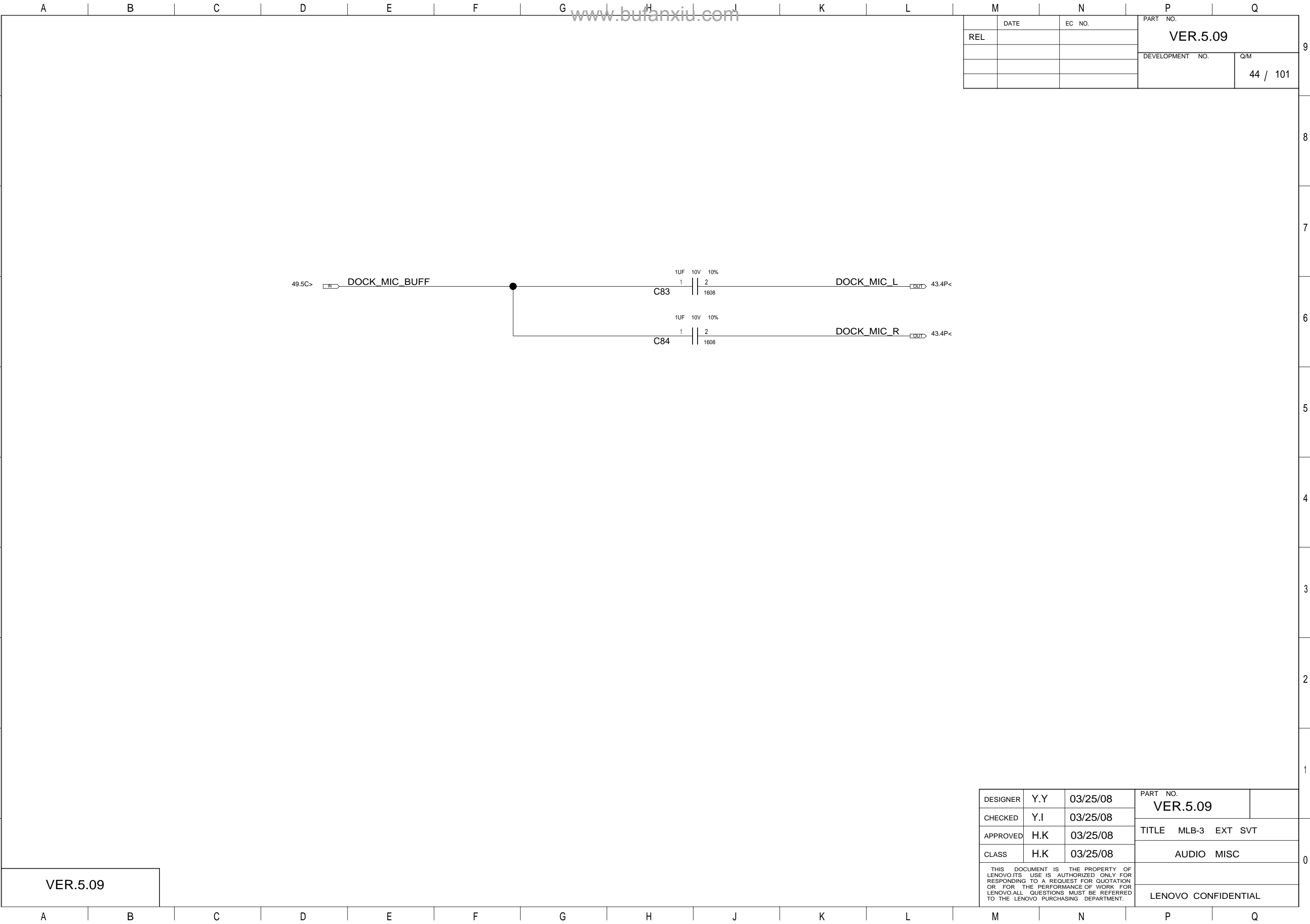
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CLASS	H.K	03/25/08	SATA BAY I/F CONN		
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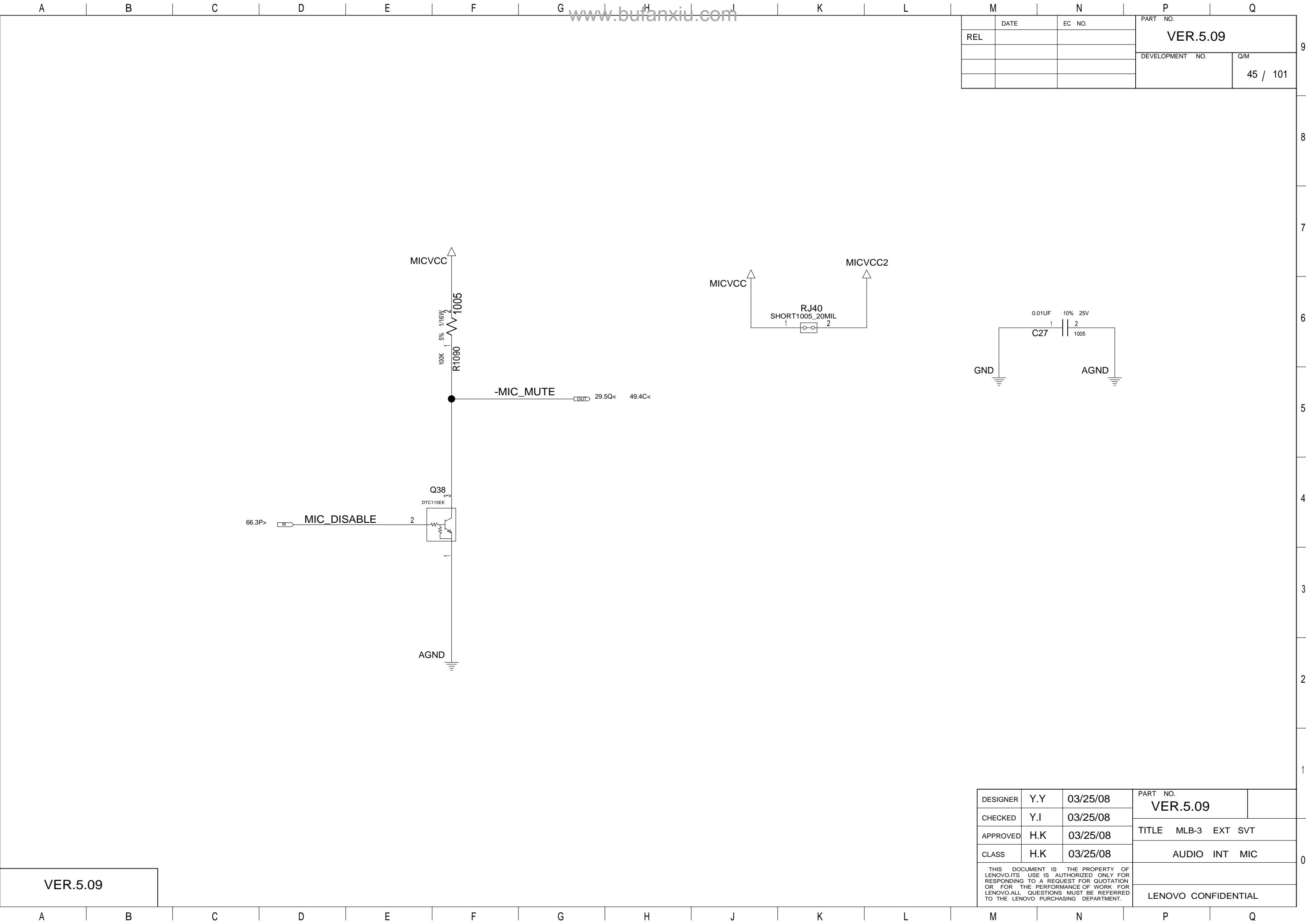


VER.5.09



	DATE	EC NO.	PART NO.	
REL			VER.5.09	
			DEVELOPMENT NO.	
			Q/M	
			44 / 101	

DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
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CLASS	H.K	03/25/08	AUDIO   MISC	
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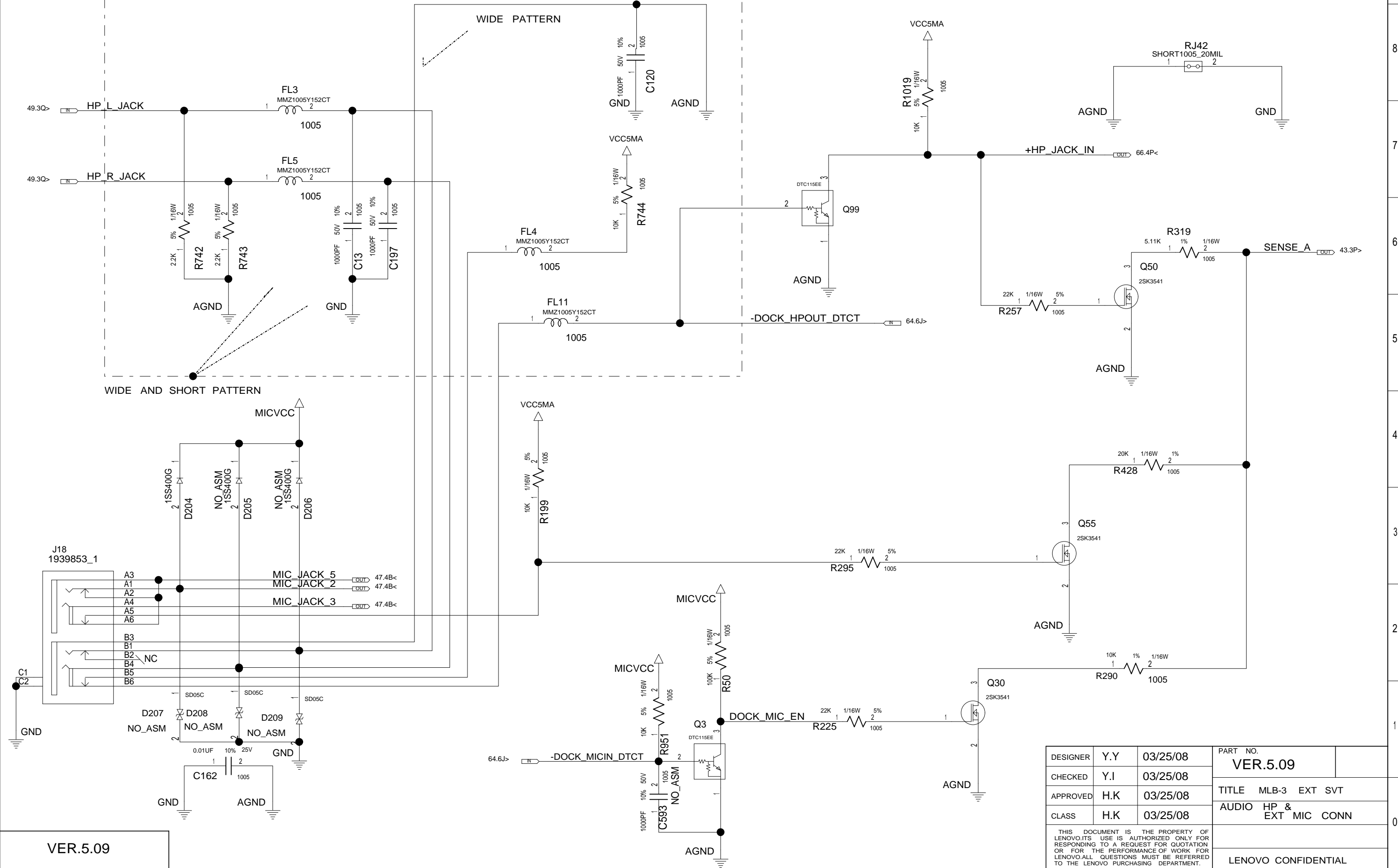
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CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	AUDIO INT MIC	
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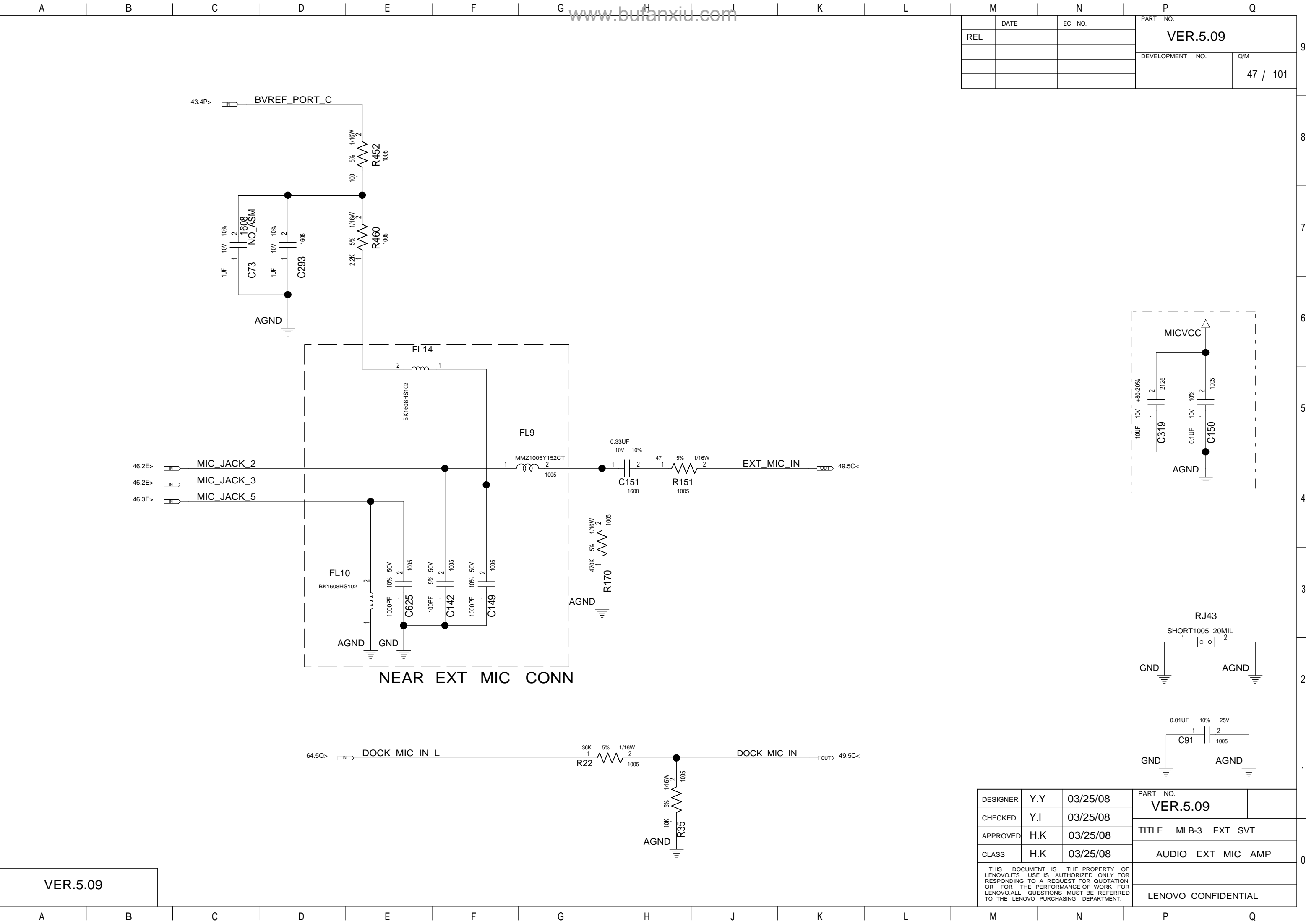
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			46 / 101	

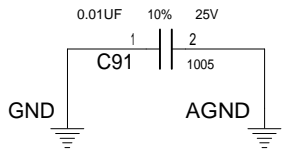
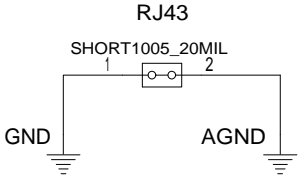
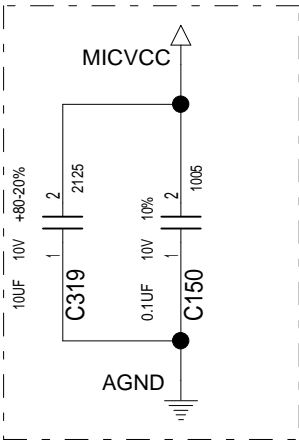
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DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	AUDIO HP & EXT MIC CONN	
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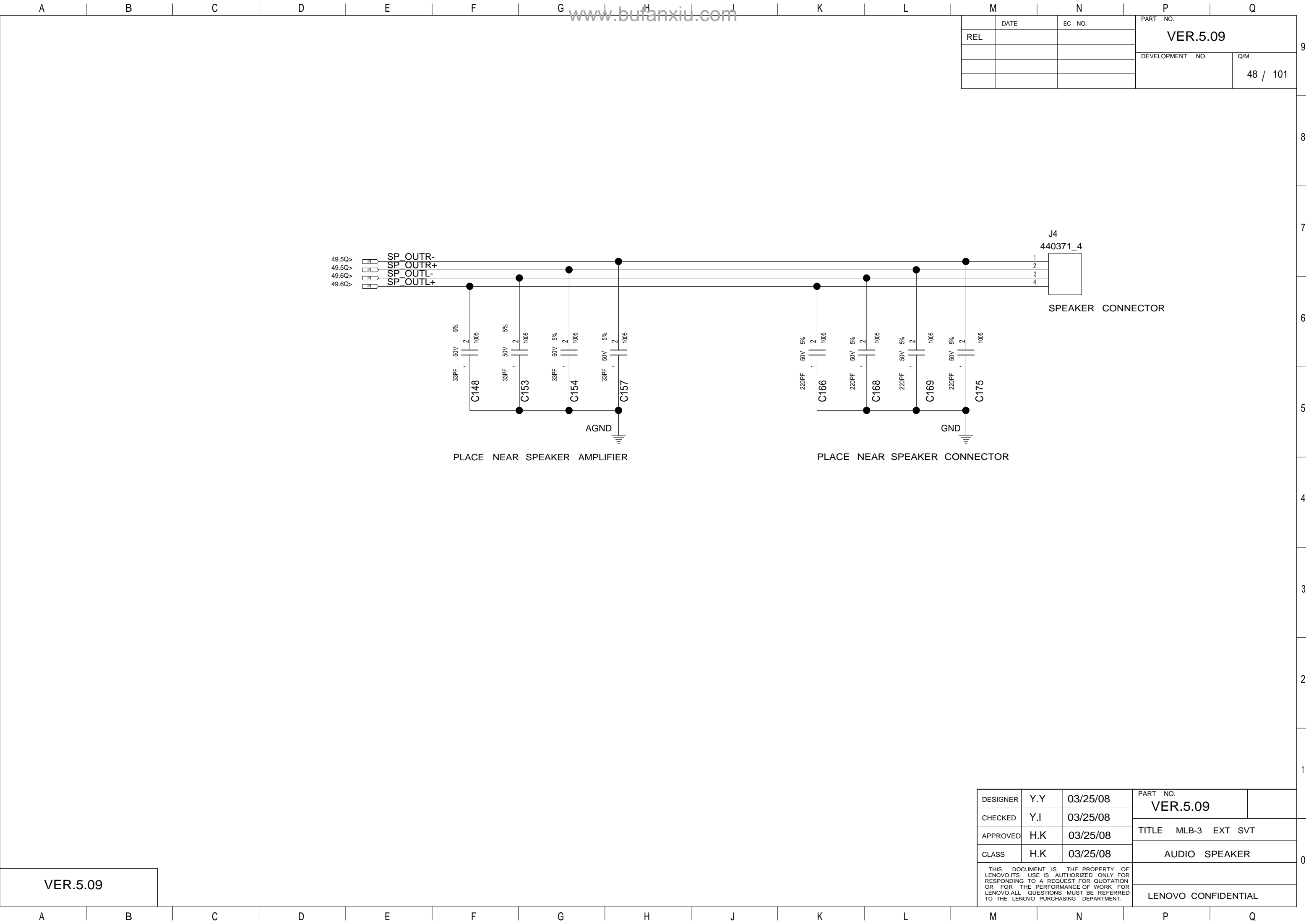


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REL			VER.5.09	
			DEVELOPMENT NO.	Q/M
				47 / 101



VER.5.09

DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	AUDIO EXT MIC AMP	
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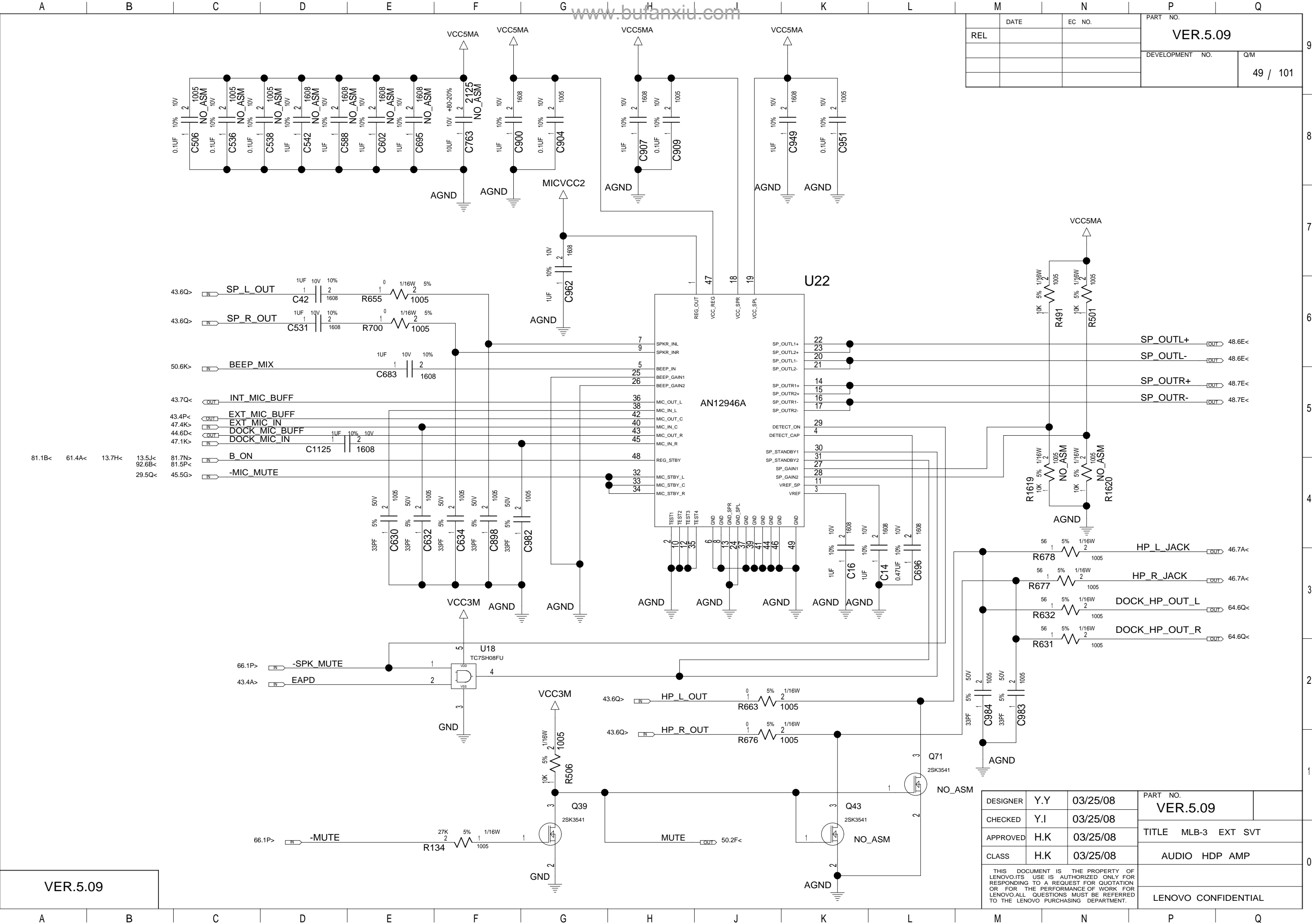
		DATE		EC NO.		PART NO.	
REL						VER.5.09	
						DEVELOPMENT NO.	
						Q/M	
						48 / 101	

VER.5.09

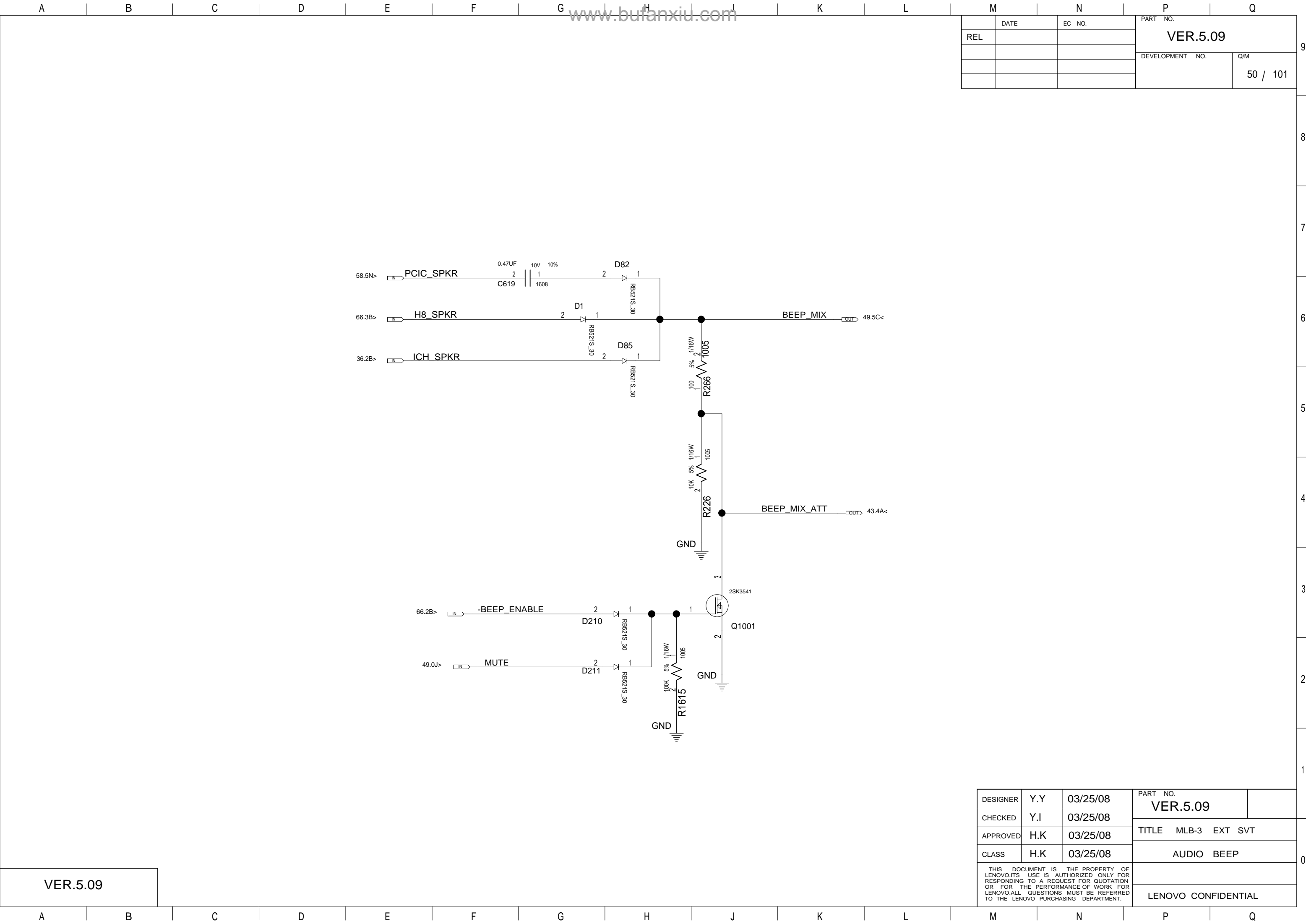
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CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	AUDIO SPEAKER	
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DATE		EC NO.	PART NO.	
REL			VER.5.09	
			DEVELOPMENT NO.	Q/M
				49 / 101



DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	AUDIO HDP AMP	
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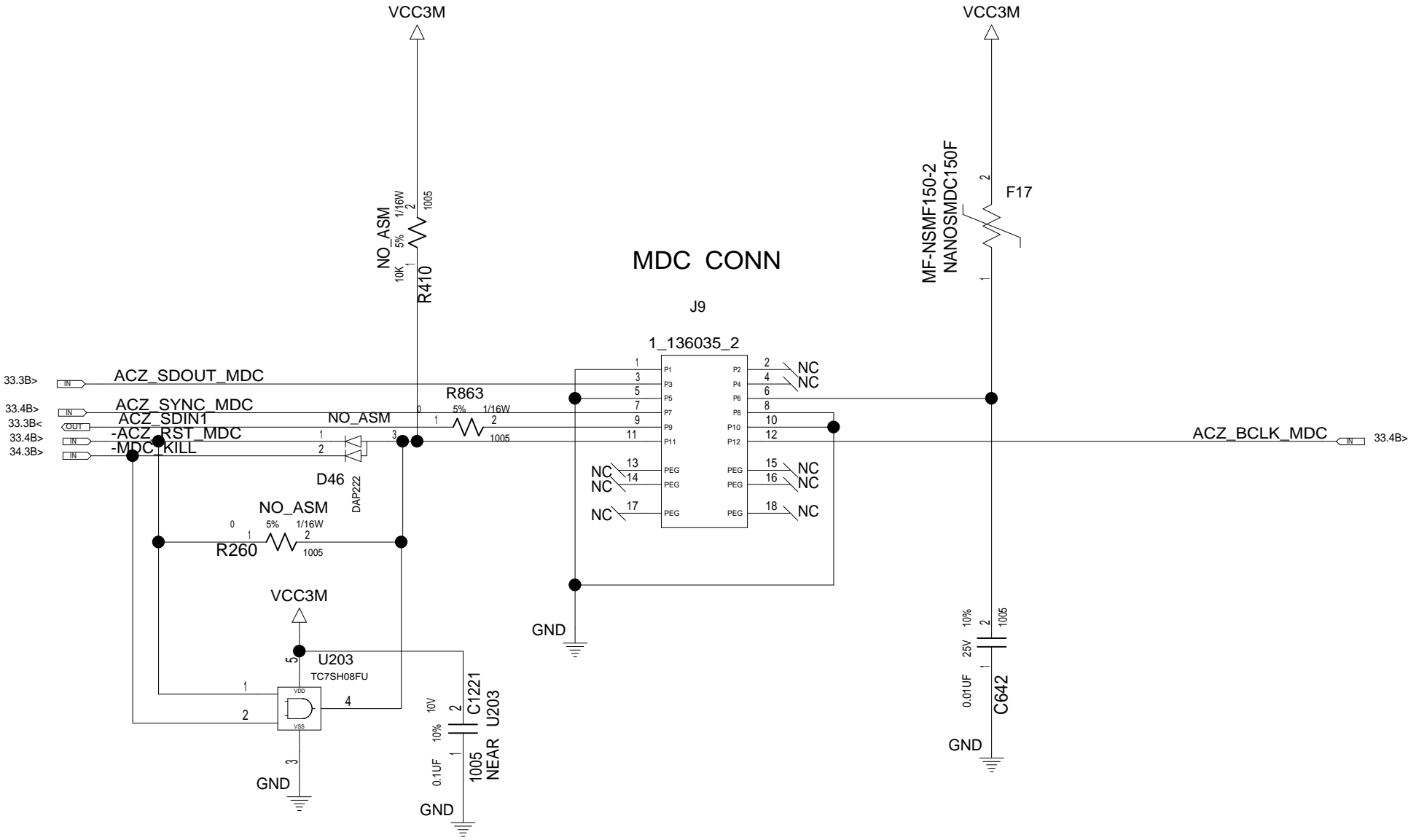


DATE		EC NO.		PART NO.	
REL				VER.5.09	
				DEVELOPMENT NO.	
				Q/M	
				50 / 101	

VER.5.09

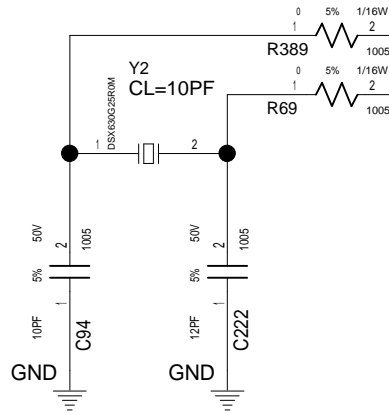
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CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	AUDIO BEEP	
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DATE		EC NO.	PART NO.	
REL			VER.5.09	
			DEVELOPMENT NO.	Q/M
				51 / 101

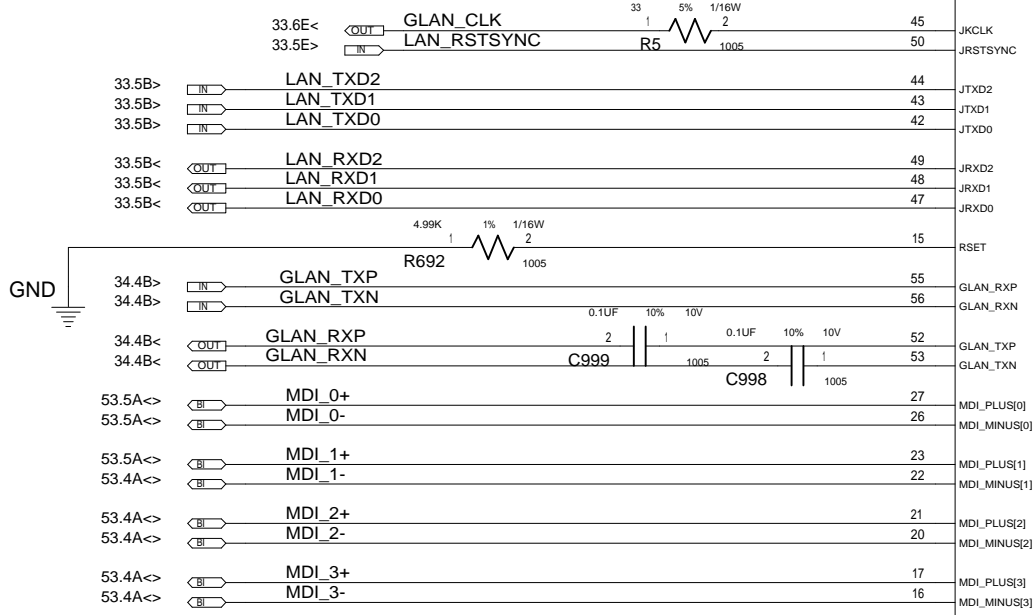
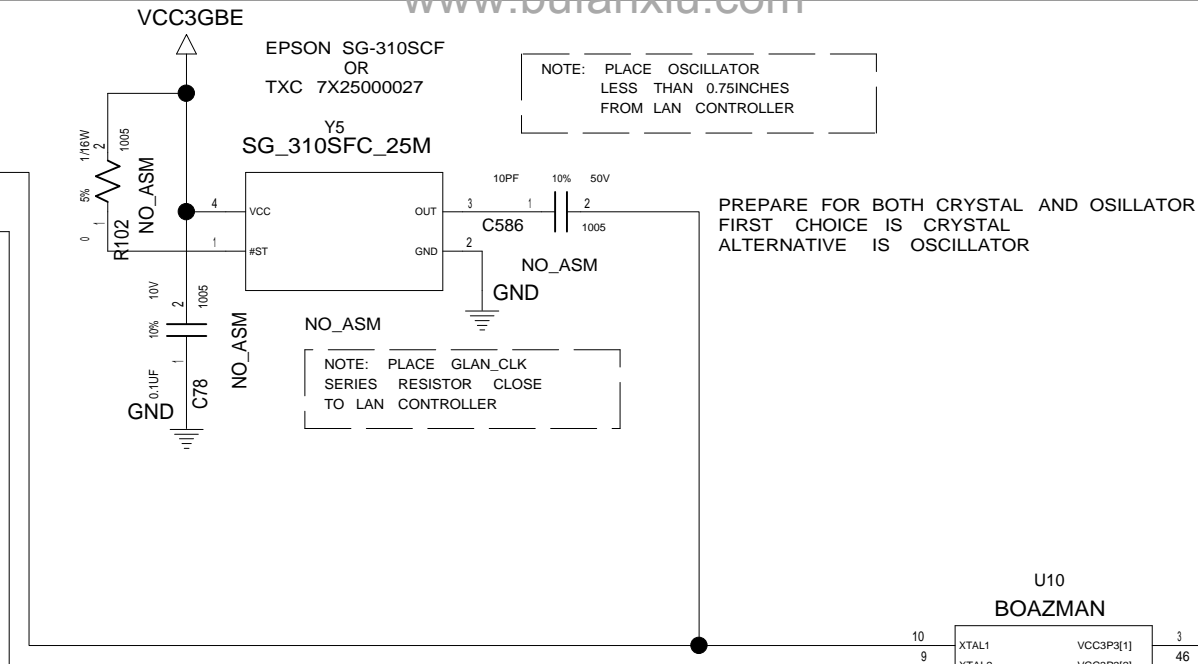


DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	CDC CONNECTOR	
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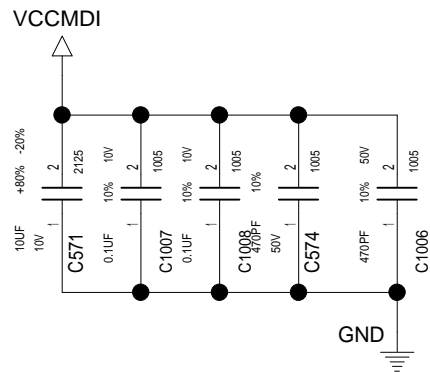
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REL			VER.5.09	
			DEVELOPMENT NO.	Q/M
				52 / 101



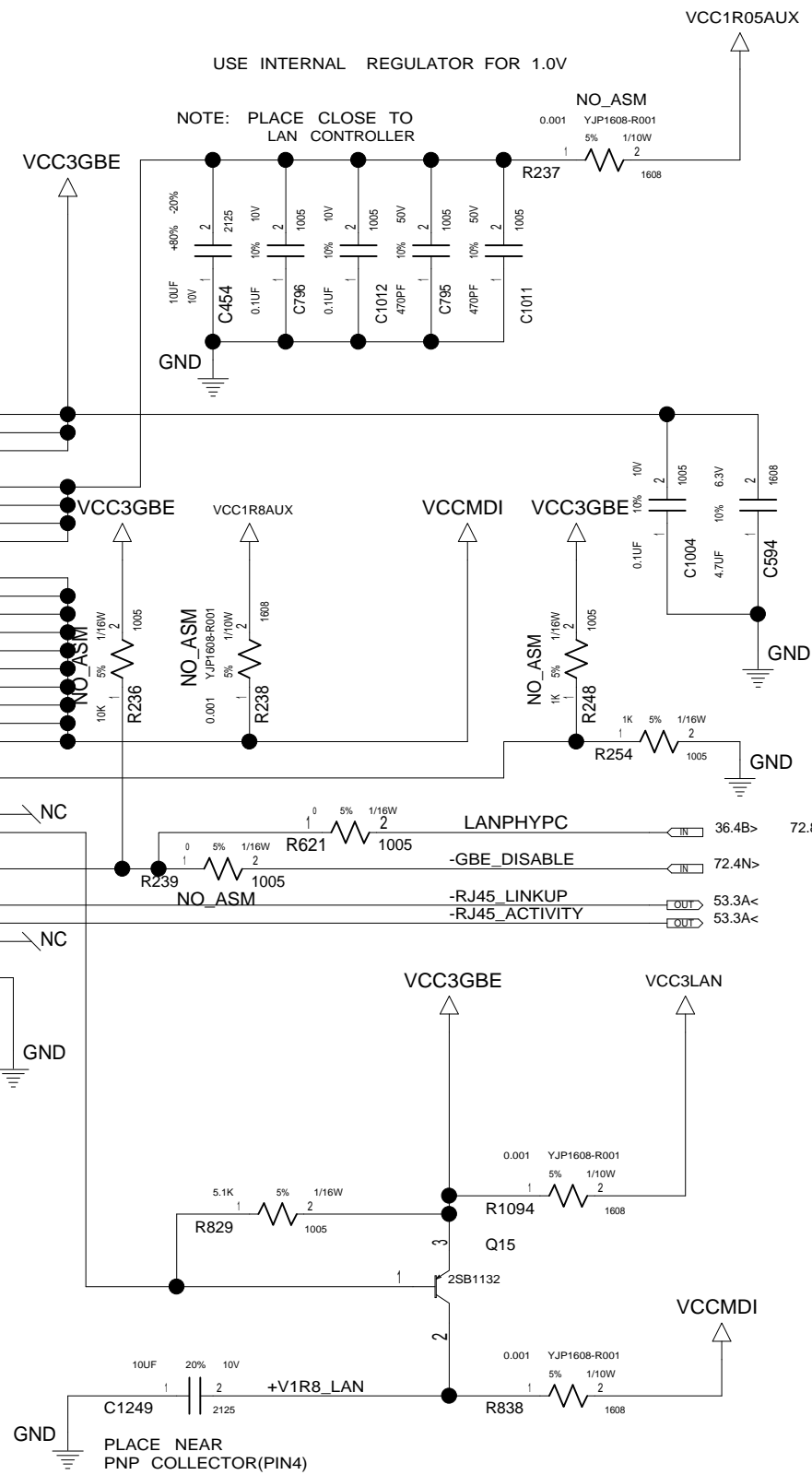
PLACE CRYSTAL LESS THAN 0.75 INCHES FROM GBE PHY



NOTE: KEEP THIS RESISTOR ON THE TOP SIDE

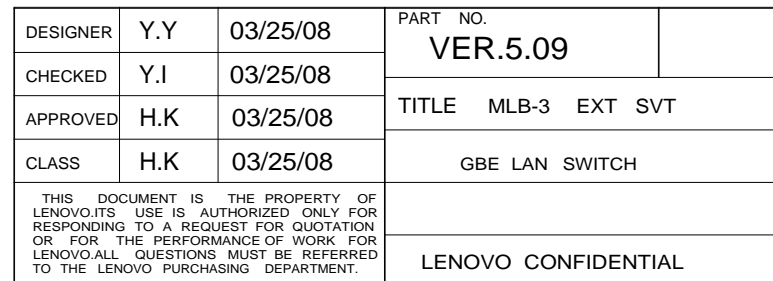


NOTE: PLACE CLOSE TO LAN CONTROLLER



AFTER INTEL'S EVALUATION, WE WILL DESIDE TO USE VCC1R8AUX OR VCC2R5AUX.

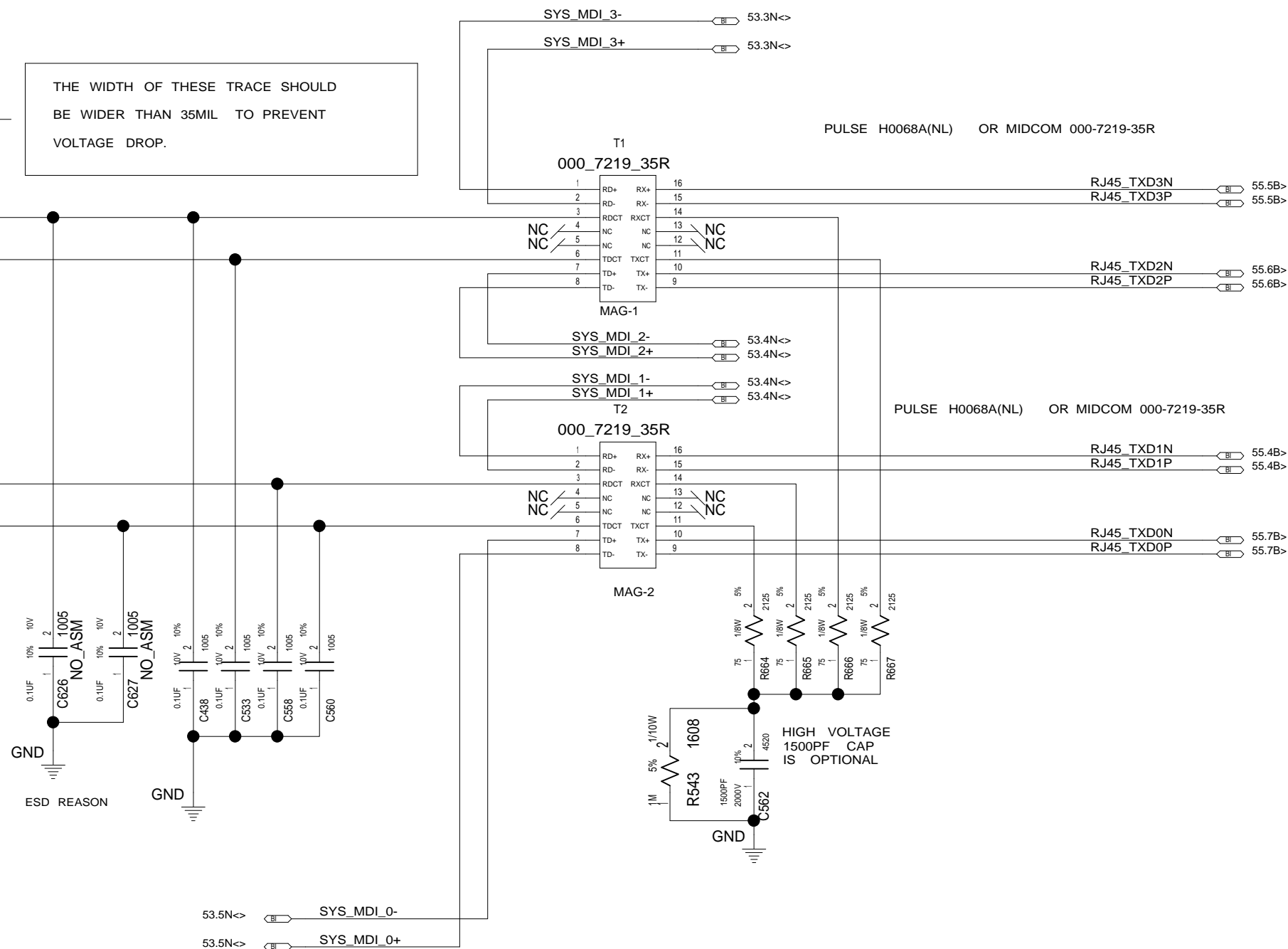
DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	GBE BOAZMAN	
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DATE		EC NO.	PART NO.	
REL			VER.5.09	
			DEVELOPMENT NO.	
			Q/M	
			54 / 101	

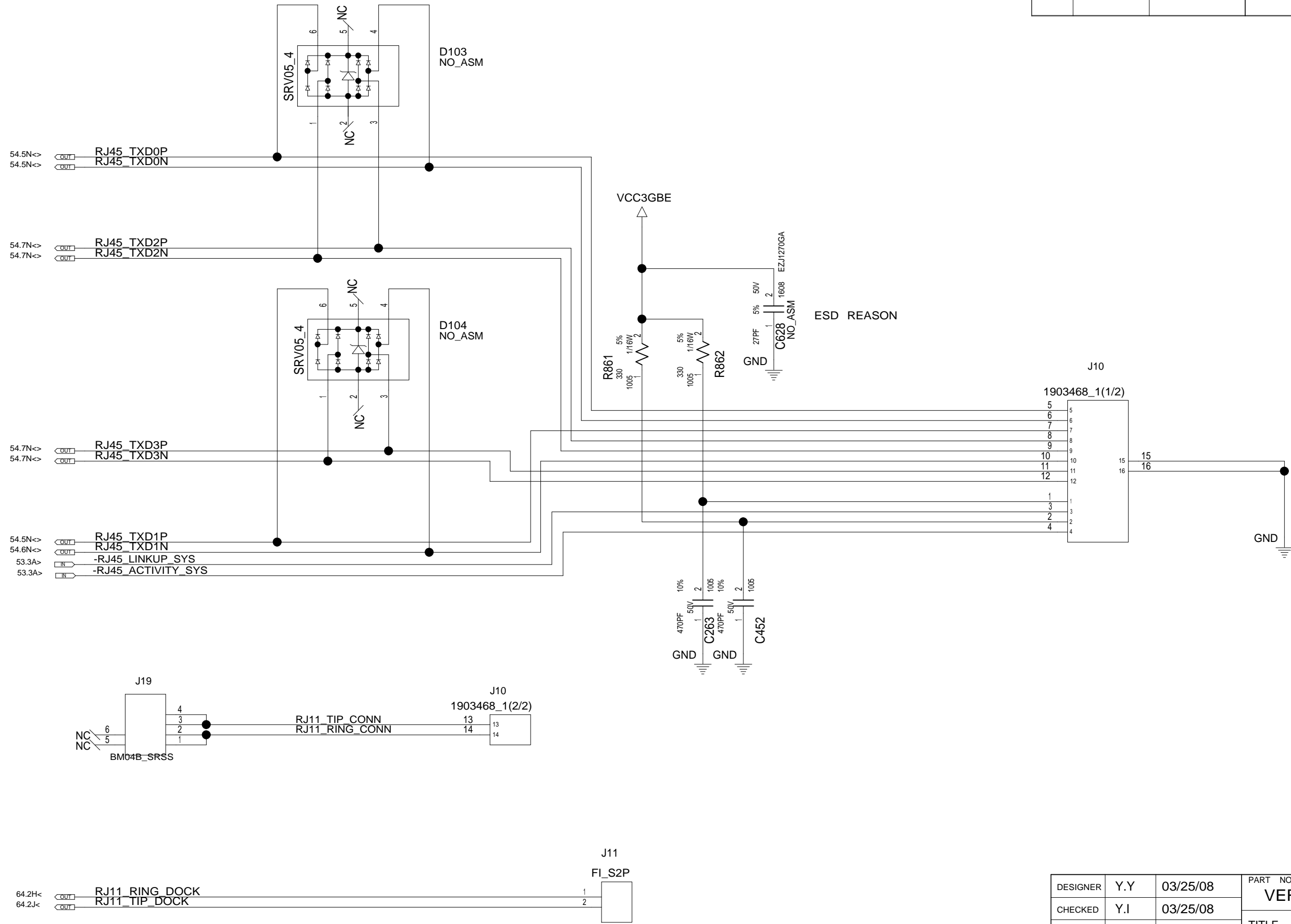
VCCMDI

THE WIDTH OF THESE TRACE SHOULD  
BE WIDER THAN 35MIL TO PREVENT  
VOLTAGE DROP.



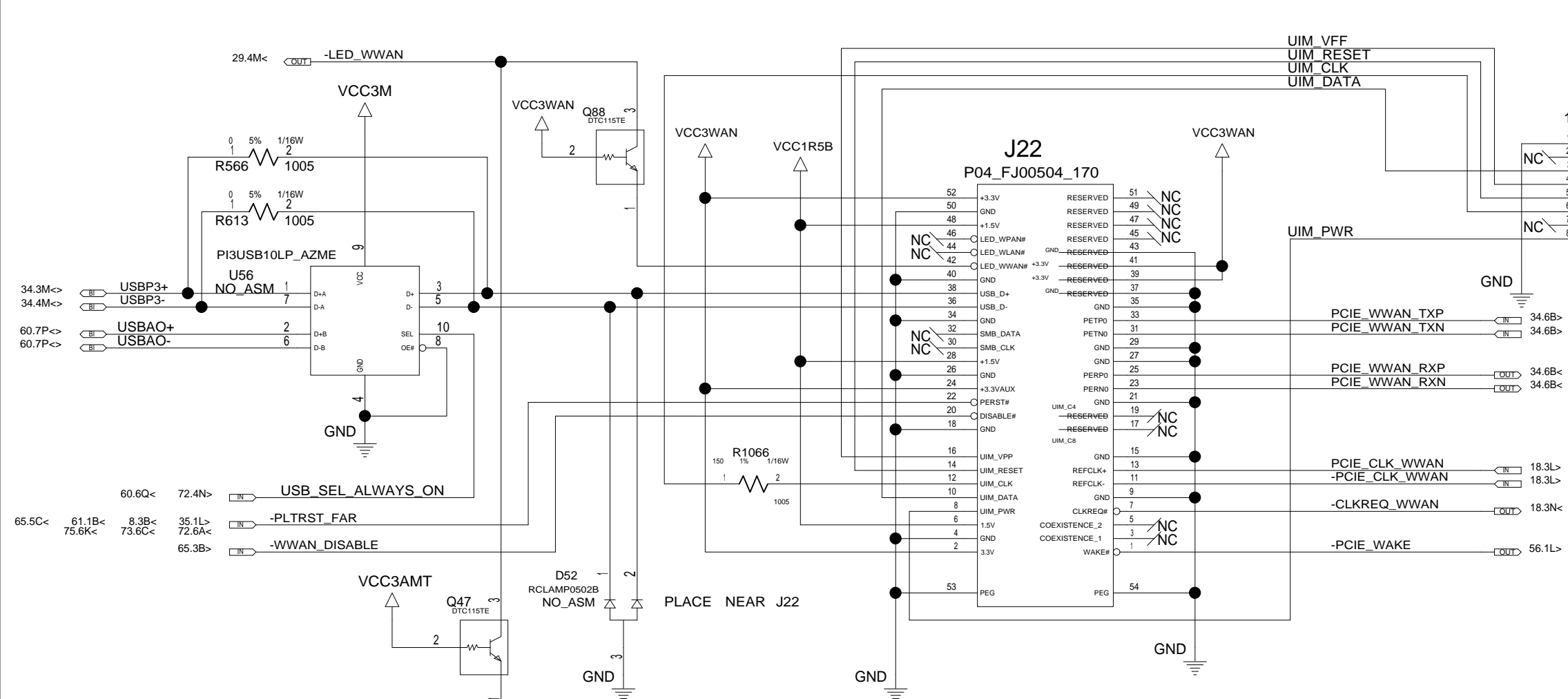
DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	GBE MAGNETICS	
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	DATE	EC NO.	PART NO.	
REL			VER.5.09	
			DEVELOPMENT NO.	Q/M
				55 / 101

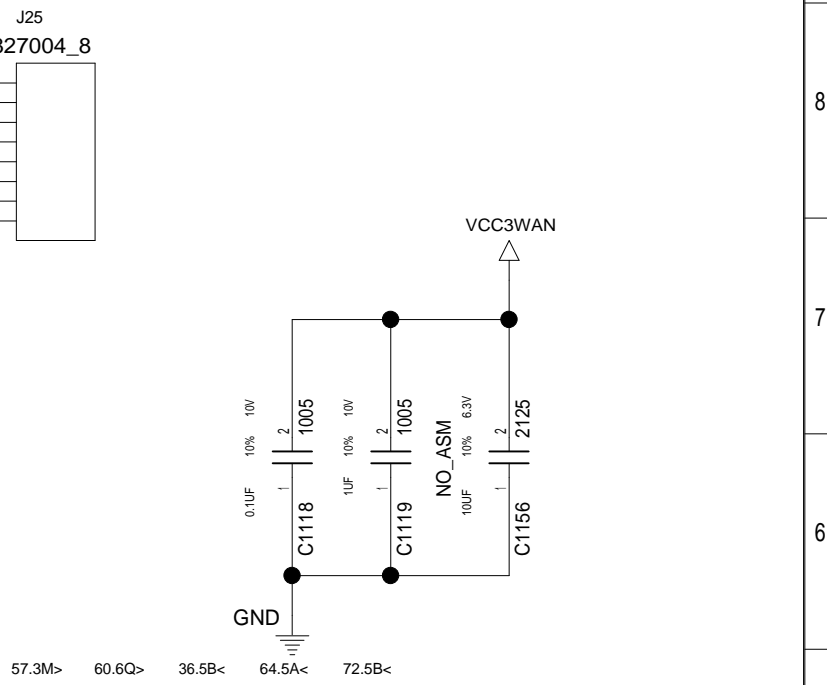


DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	RJ11/RJ45 CONNECTOR	
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MINI PCIE CONN-1 FOR WWAN



DATE		EC NO.		PART NO.	
REL				VER.5.09	
				DEVELOPMENT NO.	Q/M
				56 / 101	



TABLE

WWAN ALWAYS ON	W/WWAN REG	W/WWAN LITE/BB/NO	W/O WWAN NO
J22	ASM	ASM	NO_ASM
J25	ASM	ASM	NO_ASM
C1118	ASM	ASM	NO_ASM
C1119	ASM	ASM	NO_ASM
R1066	ASM	ASM	NO_ASM
Q88	ASM	ASM	NO_ASM
U56	ASM	NO_ASM	NO_ASM
R566	NO_ASM	ASM	NO_ASM
R613	NO_ASM	ASM	NO_ASM



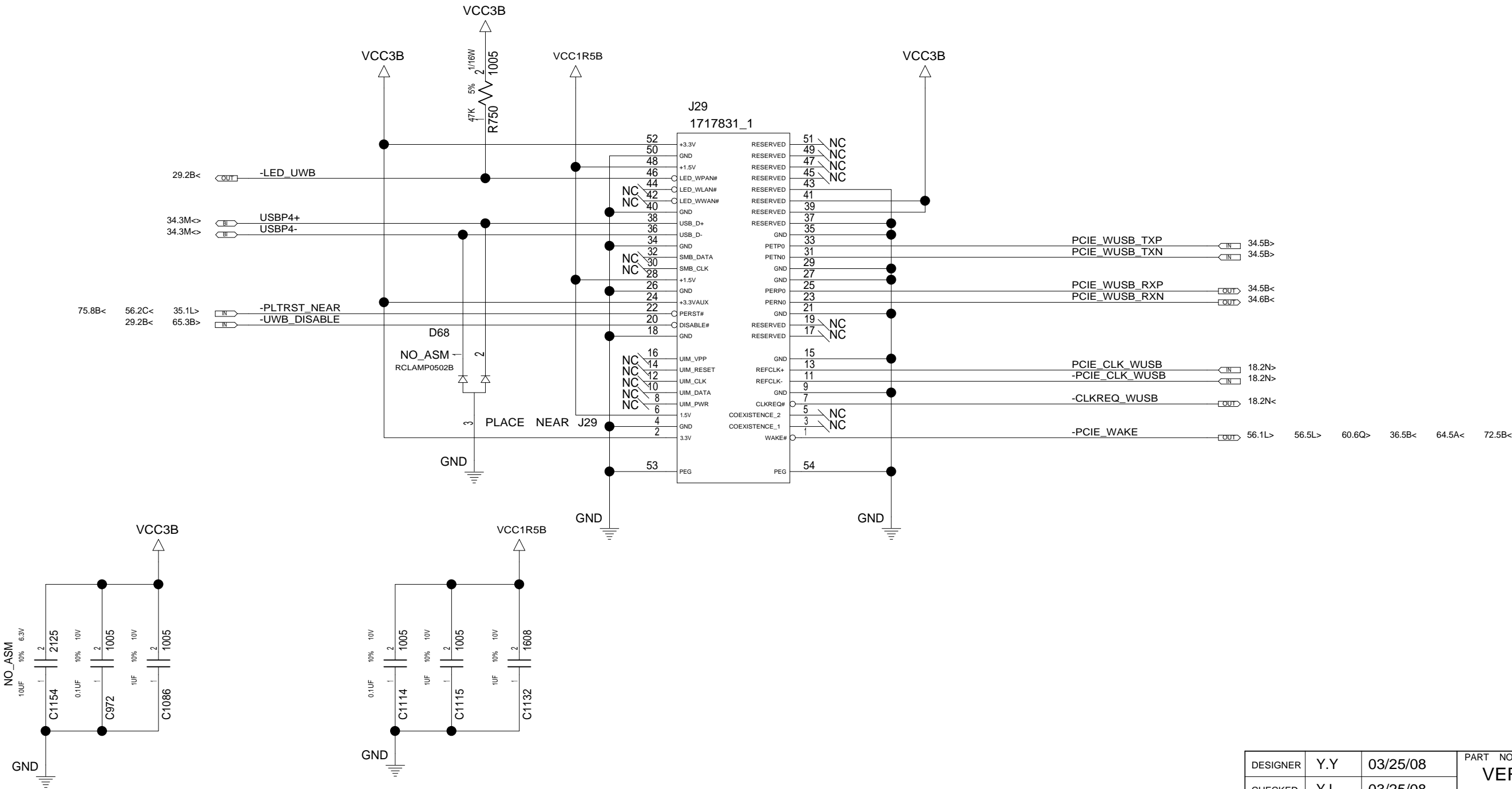
LOGIC

DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	PCIE MINI CARD SLOT	
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DATE		EC NO.	PART NO.	
REL			VER.5.09	
			DEVELOPMENT NO.	
			Q/M	
			57 / 101	

MICRO PCIE CONN



DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	PCIE HALF MINI CARD SLOT	
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DATE		EC NO.		PART NO.	
REL				VER.5.09	
				DEVELOPMENT NO.	
				Q/M	
				58 / 101	

TABLE 1394

1394	NO	YES
U20 FL6	R5C804 0 OHM	R5C847/R5C803 MPZ1608S600A
R931 C256	NO_ASM NO_ASM	ASM ASM
R988 R989 R988 R999 C877 R997 C891 C894	NO_ASM NO_ASM NO_ASM NO_ASM NO_ASM NO_ASM NO_ASM NO_ASM	ASM ASM ASM ASM ASM ASM ASM ASM
J28	NO_ASM	ASM
R985 Y7 C858 C871	NO_ASM NO_ASM NO_ASM NO_ASM	NO_ASM NO_ASM NO_ASM NO_ASM
R826	NO_ASM	ASM
D203 FL202 FL203 R373	NO_ASM NO_ASM NO_ASM NO_ASM	ASM ASM ASM ASM

LOGIC

0	W12	AD0
1	V12	AD1
2	T12	AD2
3	W11	AD3
4	V11	AD4
5	T11	AD5
6	W9	AD6
7	V9	AD7
8	R9	AD8
9	W8	AD9
10	V8	AD10
11	T8	AD11
12	R8	AD12
13	W7	AD13
14	V7	AD14
15	T7	AD15
16	V1	AD16
17	U1	AD17
18	U2	AD18
19	T1	AD19
20	T2	AD20
21	R1	AD21
22	R2	AD22
23	R4	AD23
24	P4	AD24
25	P5	AD25
26	N1	AD26
27	N2	AD27
28	N4	AD28
29	N5	AD29
30	M1	AD30
31	M2	AD31

U20  
R5C847(1/2)

0	T9	C/BE0#
1	W6	C/BE1#
2	W2	C/BE2#
3	P2	C/BE3#

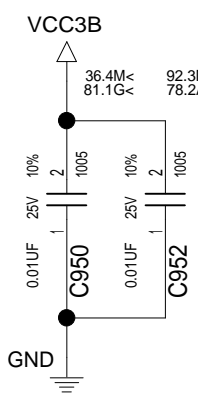
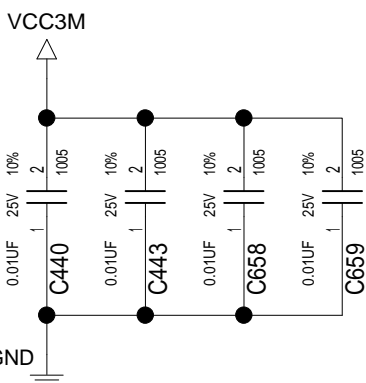
35.4M<>	-FRAME	V3	FRAME#
35.4M<>	-IRDY	V4	IRDY#
35.4M<>	-TRDY	W4	TRDY#
35.4M<>	-DEVSEL	T5	DEVSEL#
35.4M<>	-STOP	V5	STOP#
35.4M<>	-PAR	W6	PAR
35.4M<>	-PERR	W5	PERR#
35.4M<	-SERR	T6	SERR#

35.6M<	-REQ0	M4	REQ#
35.6M<	-GNT0	M5	GNT#

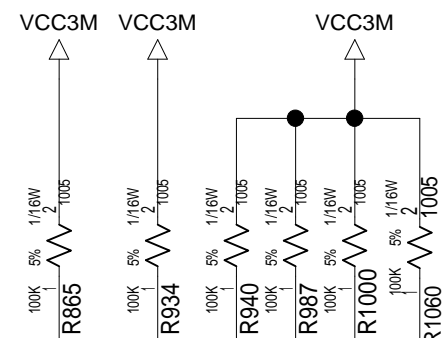
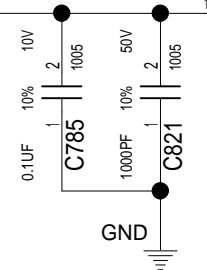
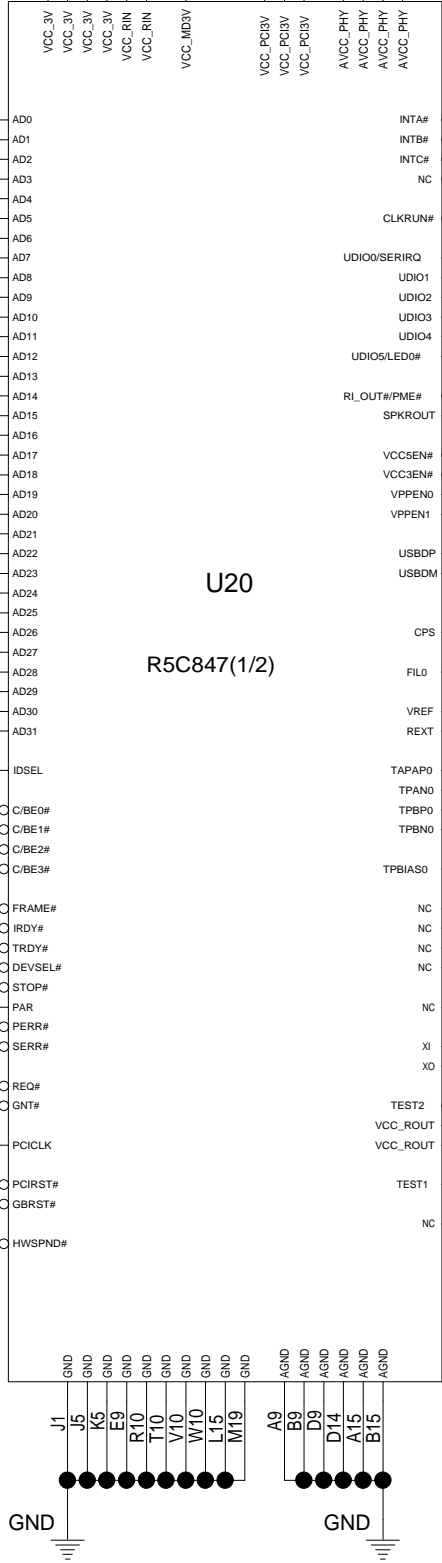
18.3A>	PCICLK_CB_33M	K1	PCICLK
--------	---------------	----	--------

35.4M>	-PCIRST	L4	PCIRST#
65.3Q>	MPWRG	G2	GBRST#

72.7P>	-CARDBUSPDN	F2	HWSPND#
--------	-------------	----	---------



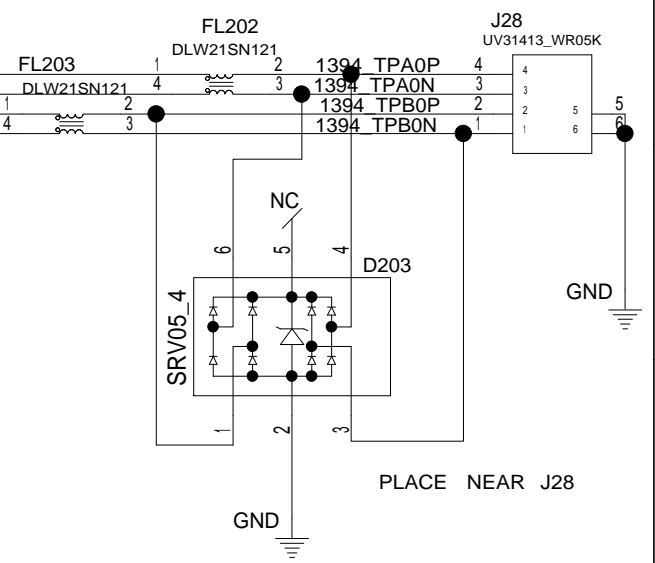
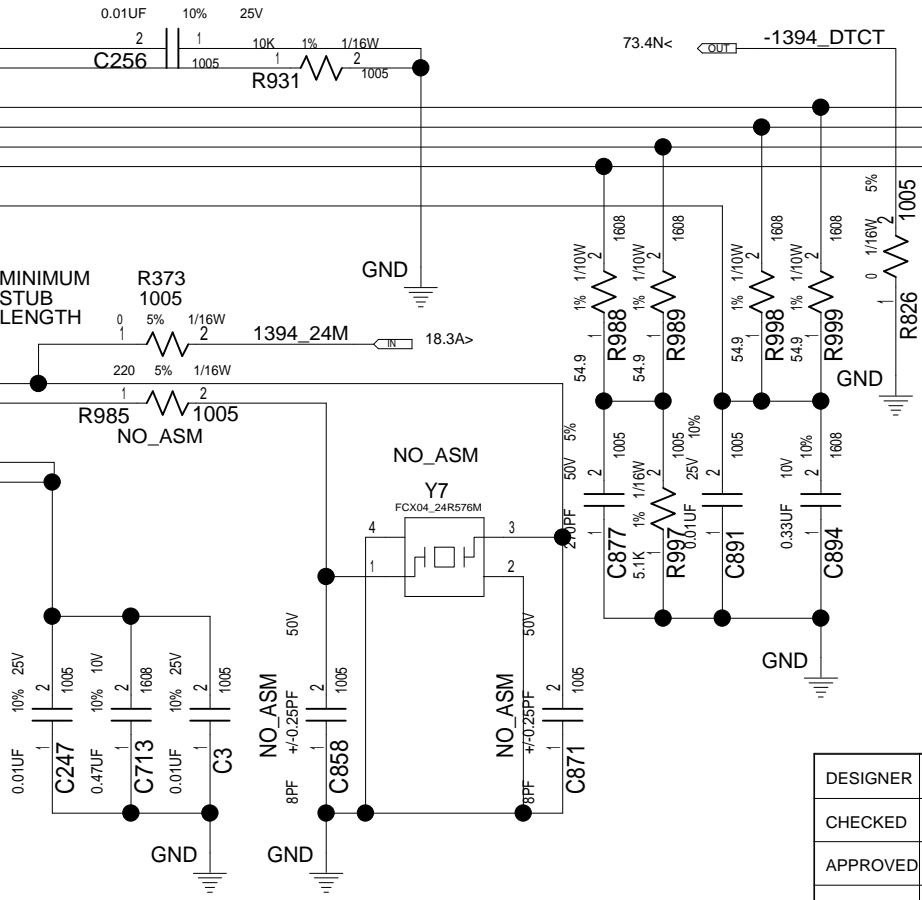
VER.5.09



-INTA	OUT	35.3B<			
-INTB	OUT	35.2B<			
-INTC	OUT	35.2B<			
-CLKRUN	BI	36.5B<>	73.5C>	75.6K<>	65.5C<
IRQSER	BI	65.5C<>	73.5C>	75.5K<>	36.4B< 72.4B<
PCMACT	OUT	72.4B<			
-PME	OUT	35.3J<			
PCIC SPKR	OUT	50.6E<			
-VCC5EN	OUT	61.7B<			
-VCC3EN	OUT	61.7B<			
VPPEN0	OUT	61.7B<			
VPPEN1	OUT	61.7B<			

TRACE LENGTH MATCHING  
REQUIRED FOR A PAIR AND B PAIR

STUB LENGTH SHOULD BE  
MINIMIZED



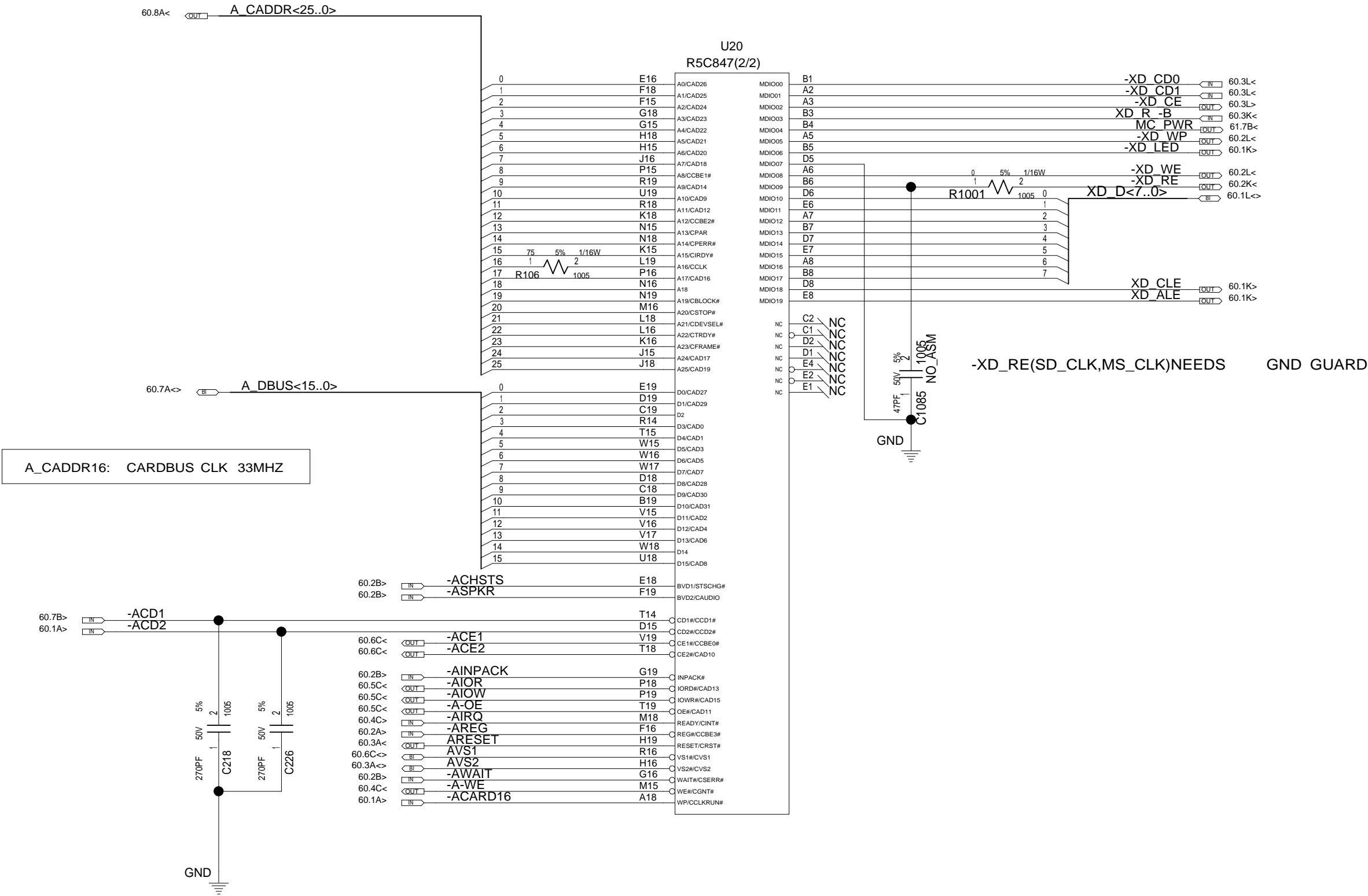
DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	CARD BUS CONTROLLER(1/2)	
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DATE		EC NO.	PART NO.	
REL			VER.5.09	
			DEVELOPMENT NO.	
			Q/M	
			59 / 101	

TABLE

U20	R5C847	R5C804/ R5C803
R1001	ASM	NO_ASM

↑  
LOGIC



DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	CARD BUS CONTROLLER(2/2)	
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TABLE		
ALWAYS ON	REG	LITE/BB/NO
U62	ASM	NO_ASM
R614	NO_ASM	ASM
R650	NO_ASM	ASM

DATE		EC NO.	PART NO.	
REL			VER.5.09	
			DEVELOPMENT NO.	Q/M
				60 / 101

U20	R5C847	R5C804/ R5C803
C1101 D101 R1208 C737	ASM ASM ASM ASM	NO_ASM NO_ASM NO_ASM NO_ASM

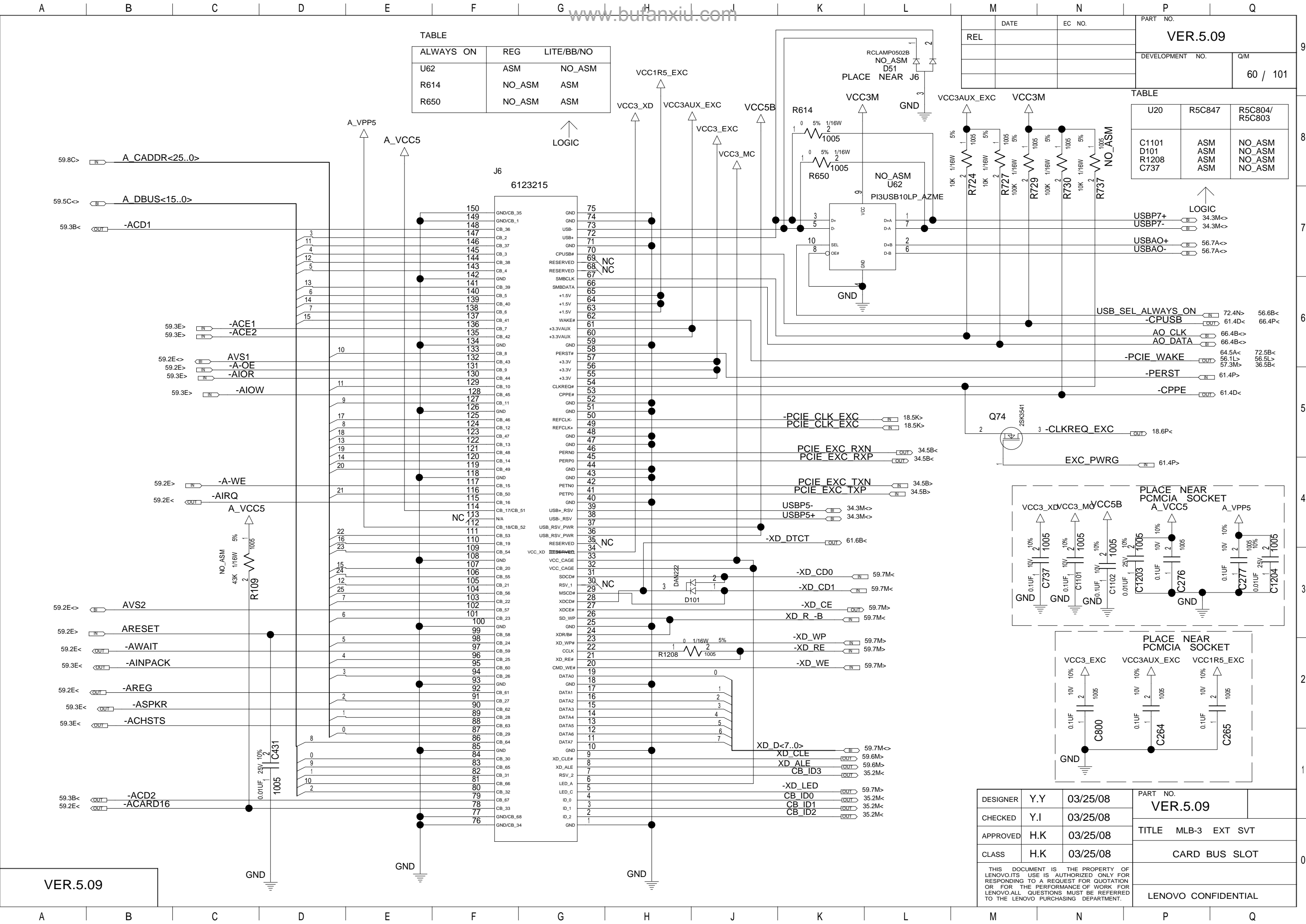
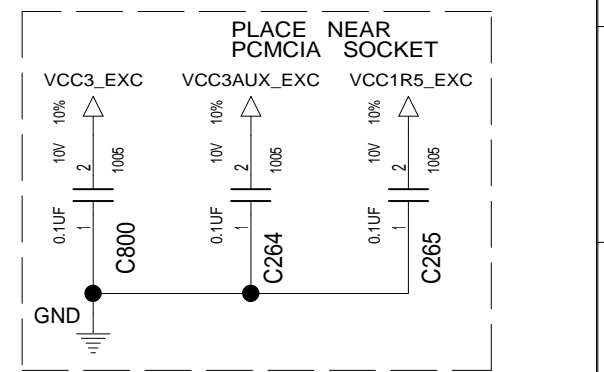
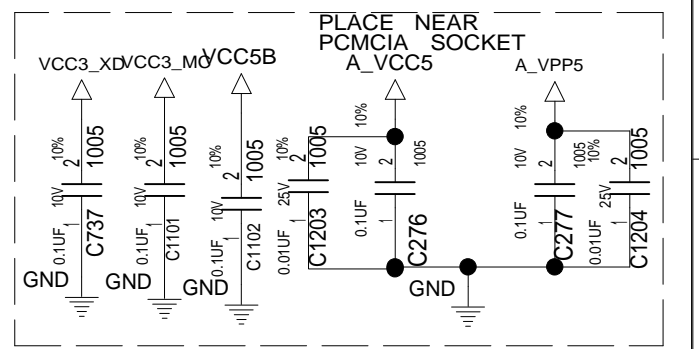
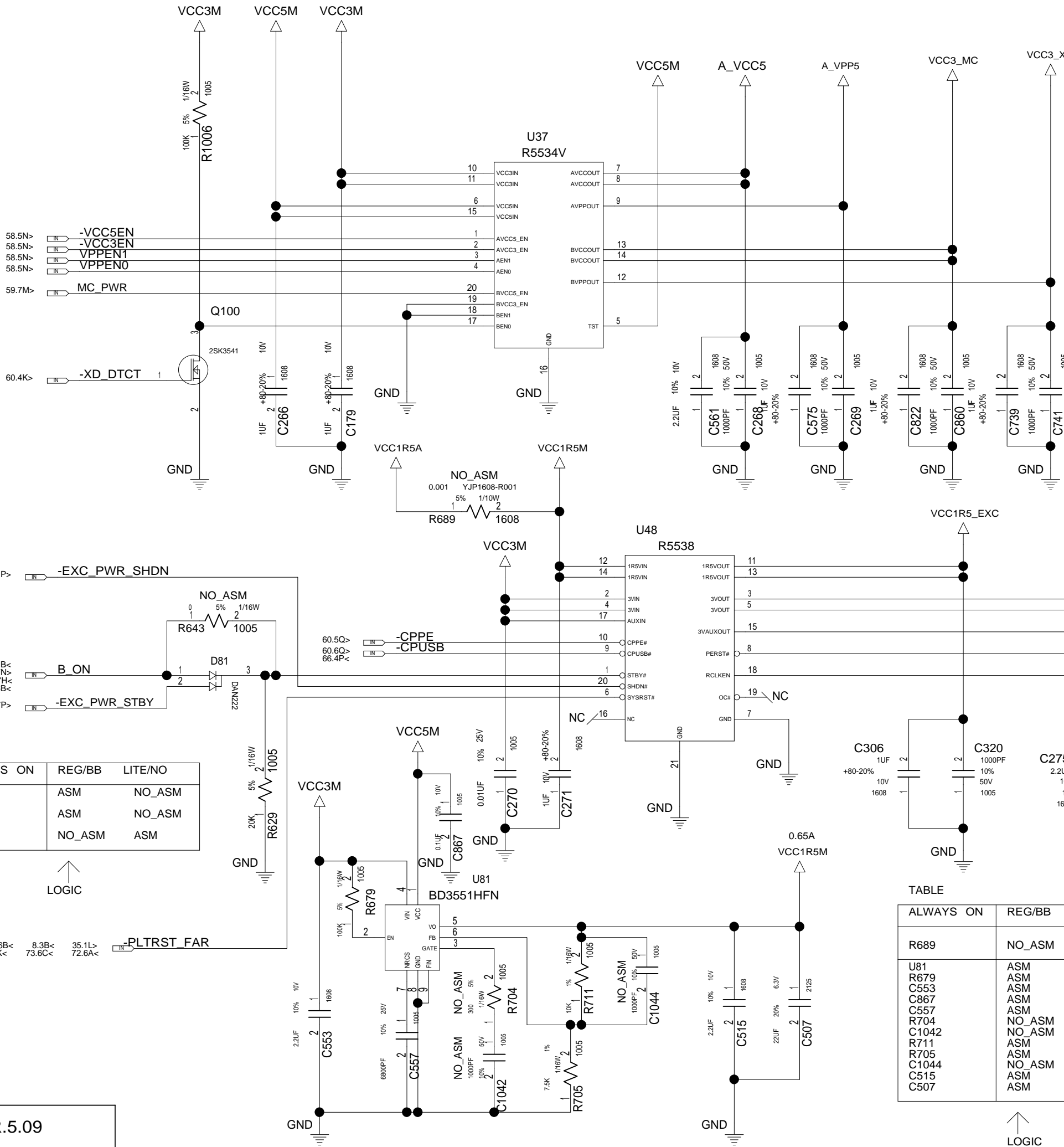


TABLE	
USBP7+ USBP7- USBAO+ USBAO-	LOGIC 34.3M<> 34.3M<> 56.7A<> 56.7A<>
USB_SEL ALWAYS ON -CPUSB AO CLK AO DATA -PCIE_WAKE -PERST -CPPE	72.4N> 61.4D< 66.4B<> 66.4B<> 64.5A< 56.1L> 57.3M> 61.4P> 56.6B< 66.4P< 72.5B< 36.5B<



DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	CARD BUS SLOT	
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DATE		EC NO.		PART NO.	
REL				VER.5.09	
				DEVELOPMENT NO.	
				Q/M	
				61 / 101	



TABLE

U20	R5C847	R5C804/ R5C803
C822	ASM	NO_ASM
C860	ASM	NO_ASM
C739	ASM	NO_ASM
C741	ASM	NO_ASM

LOGIC

TABLE

ALWAYS ON	REG/BB	LITE/NO
D81	ASM	NO_ASM
R629	ASM	NO_ASM
R643	NO_ASM	ASM

LOGIC

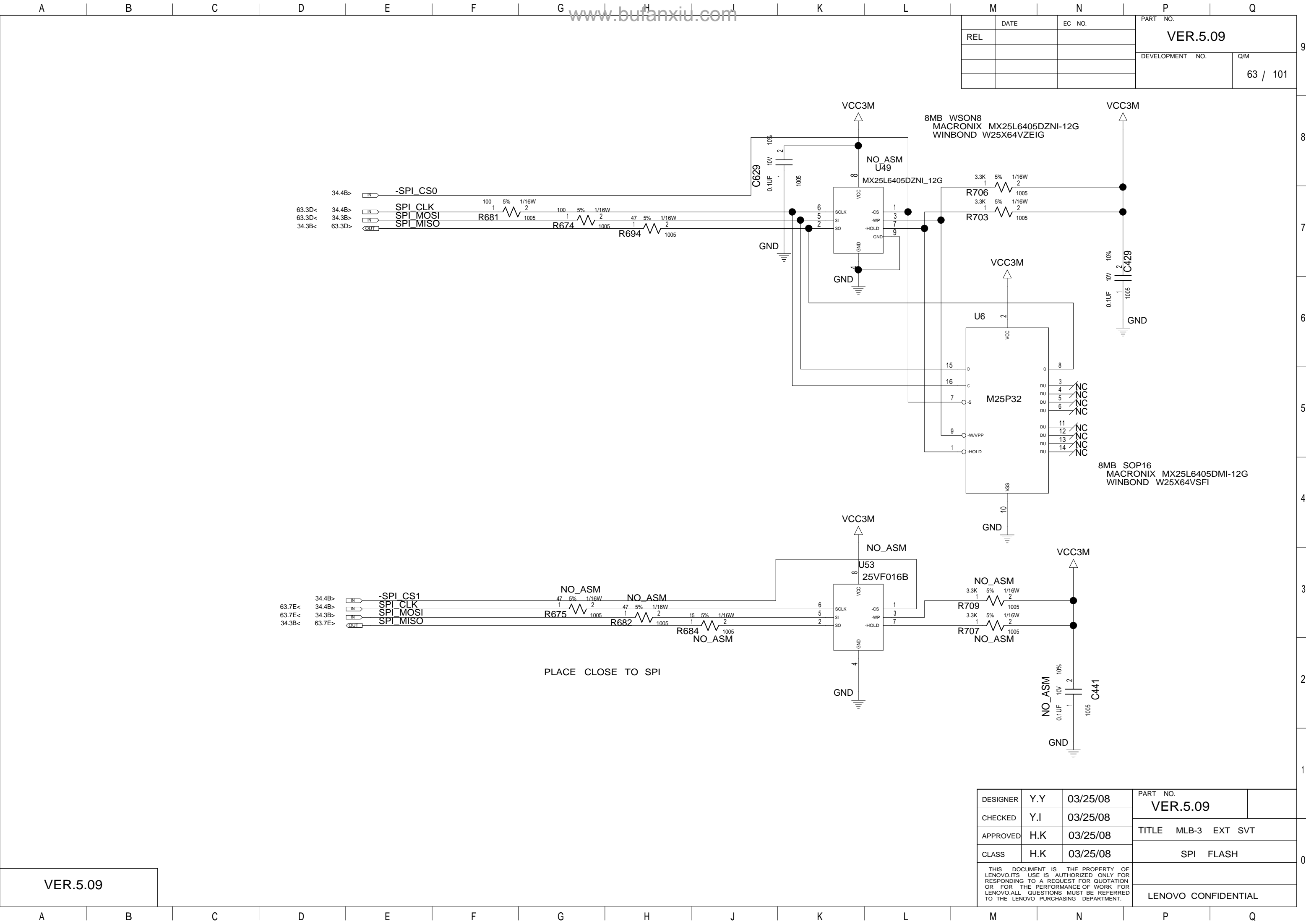
TABLE

ALWAYS ON	REG/BB	LITE/NO
R689	NO_ASM	ASM
U81	ASM	NO_ASM
R679	ASM	NO_ASM
C553	ASM	NO_ASM
C867	ASM	NO_ASM
C557	ASM	NO_ASM
R704	NO_ASM	NO_ASM
C1042	NO_ASM	NO_ASM
R711	ASM	NO_ASM
R705	ASM	NO_ASM
C1044	NO_ASM	NO_ASM
C515	ASM	NO_ASM
C507	ASM	NO_ASM

LOGIC

DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	CARD BUS POWER CONTROL	
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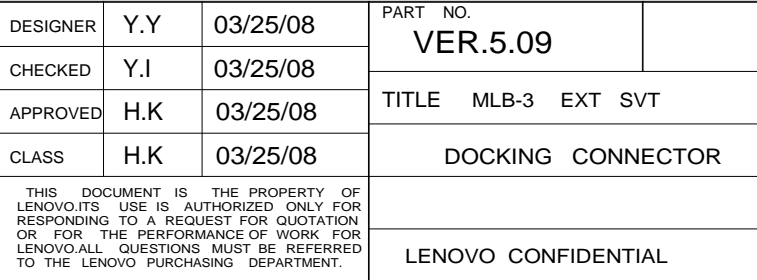
DATE		EC NO.	PART NO.	
REL			VER.5.09	
			DEVELOPMENT NO.	
			Q/M	
			63 / 101	

8MB WSON8  
MACRONIX MX25L6405DZNI-12G  
WINBOND W25X64VZEIG

0.1UF 10V 10%  
1005  
C429

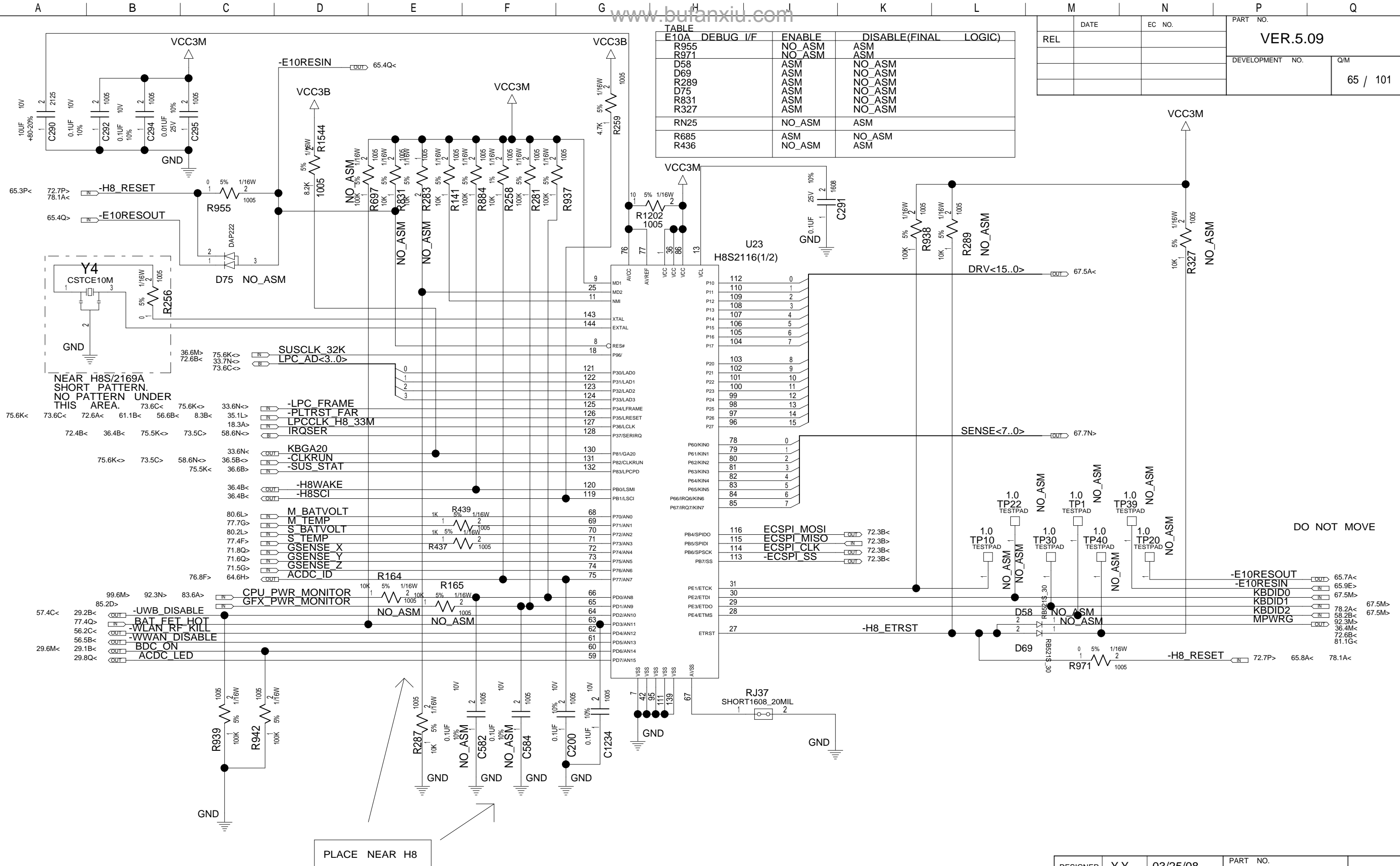
8MB SOP16  
MACRONIX MX25L6405DMI-12G  
WINBOND W25X64VSFI

DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	SPI FLASH	
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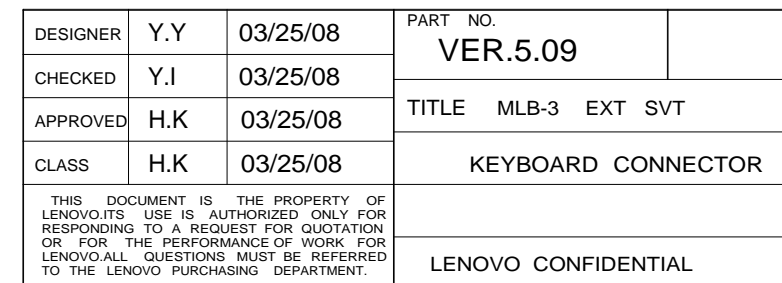


M		N		P		Q	
	DATE	EC NO.		PART NO.			
REL				VER.5.09			
				DEVELOPMENT NO.			Q/M
							65 / 101

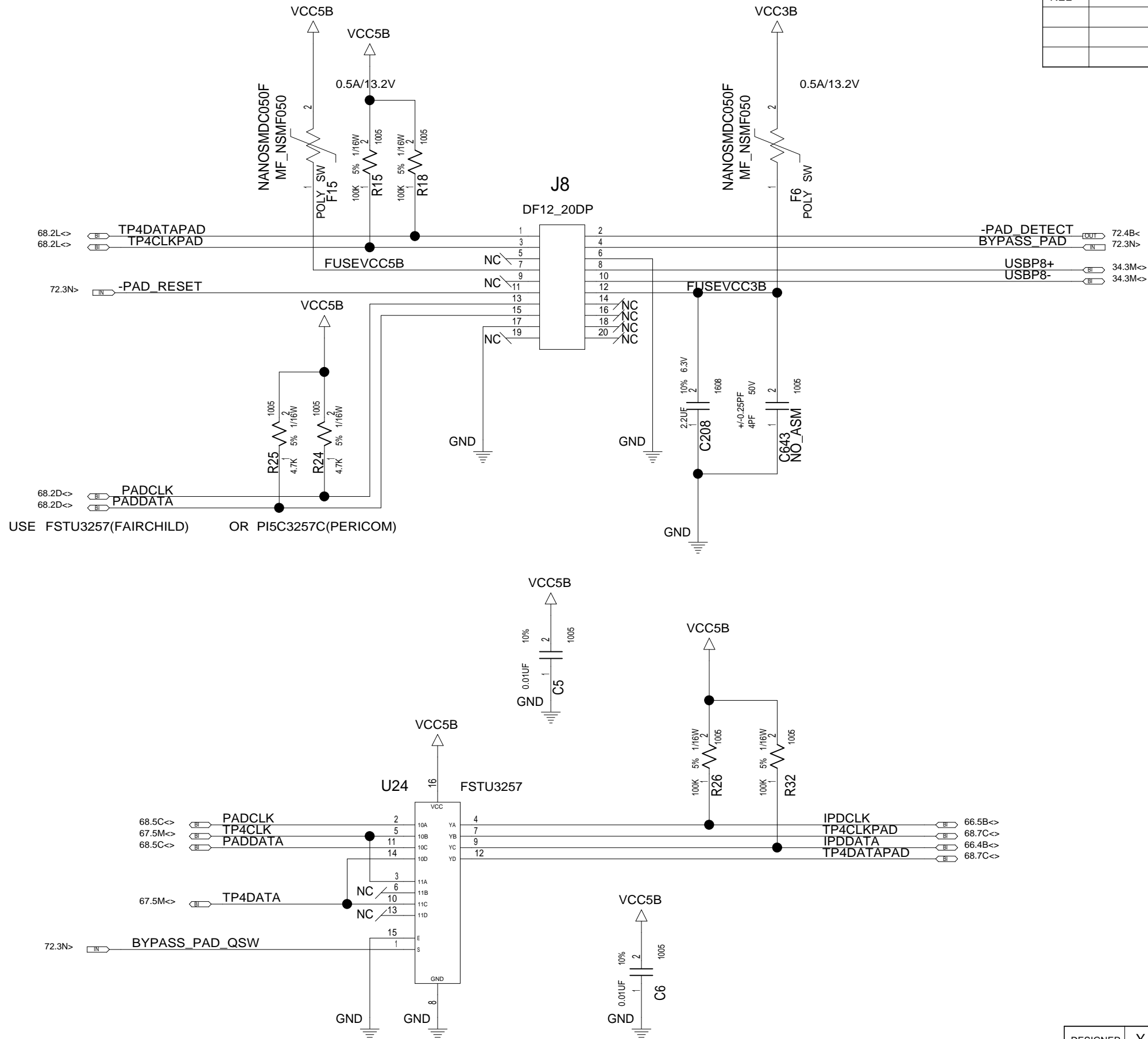


DESIGNER	Y.Y	03/25/08	PART NO. <b>VER.5.09</b>
CHECKED	Y.I	03/25/08	
APPROVED	H.K	03/25/08	TITLE    MLB-3    EXT    SVT
CLASS	H.K	03/25/08	H8S/2116B    (1/2)
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			<b>LENOVO CONFIDENTIAL</b>

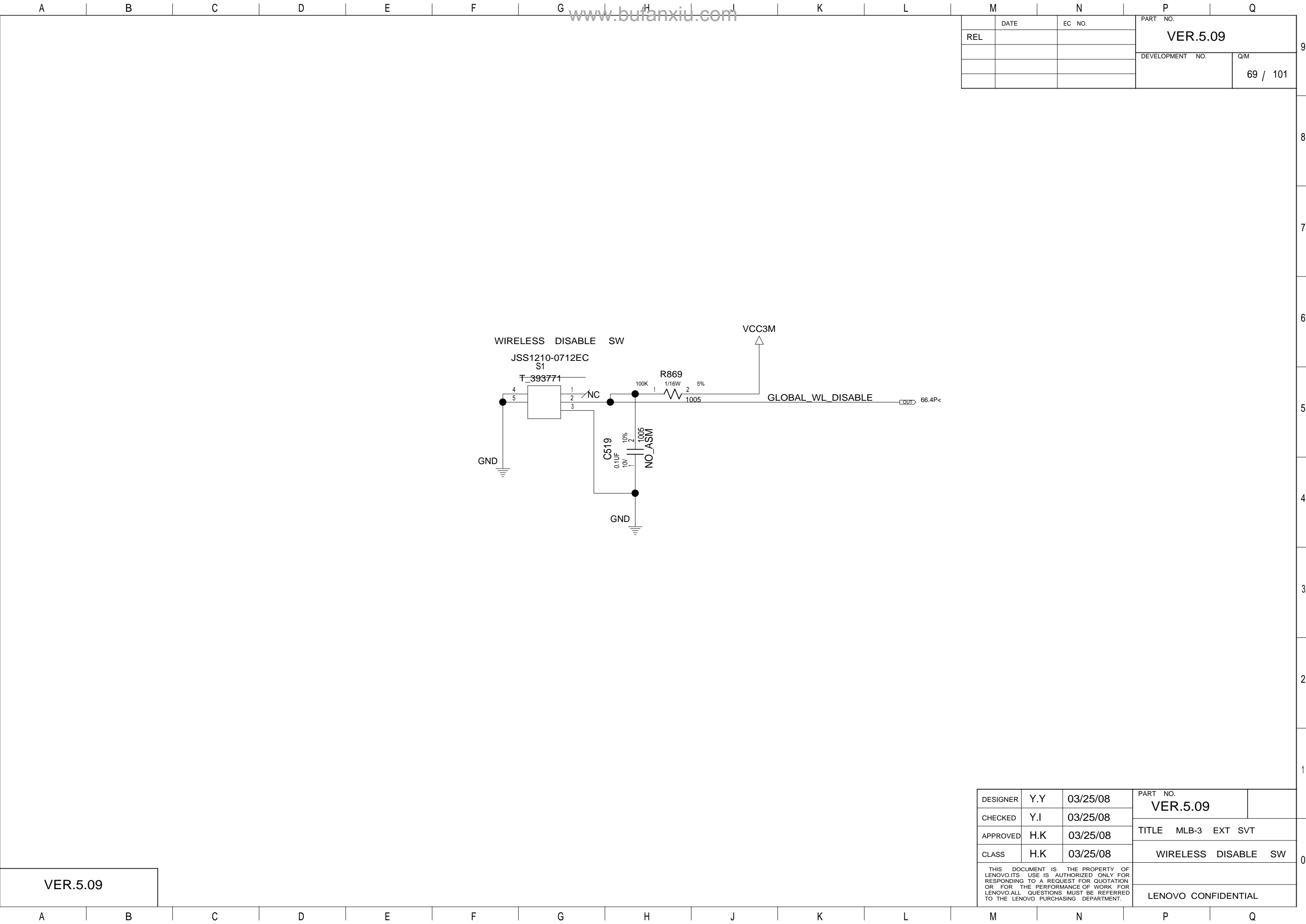




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DATE		EC NO.		PART NO.		VER.5.09	
REL				DEVELOPMENT NO.		Q/M	
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DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	TOUCH PAD CONNECTOR	
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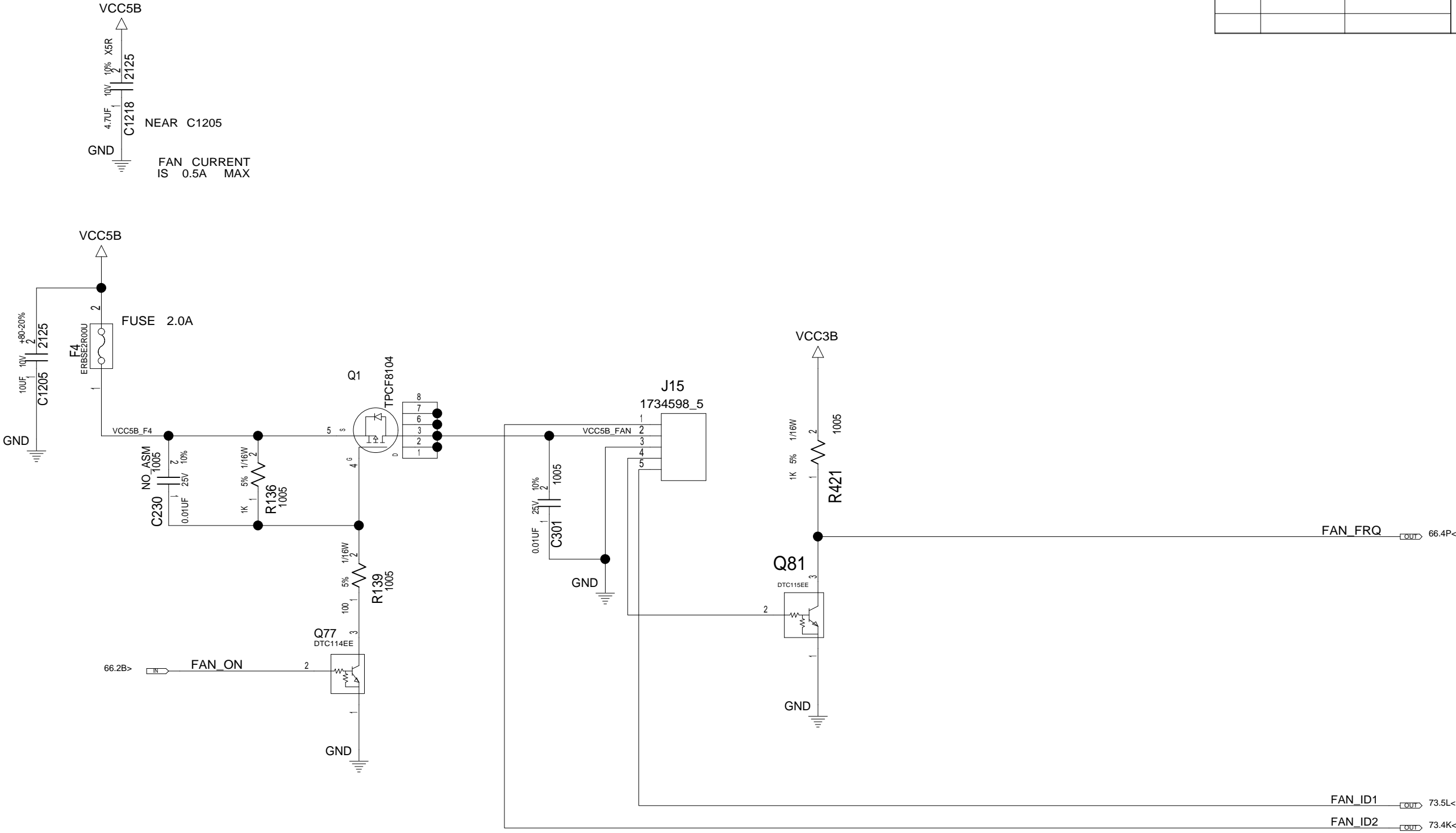


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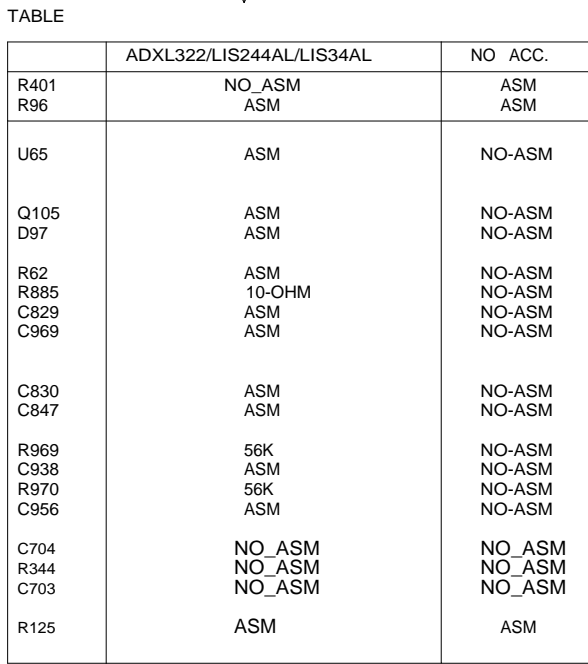
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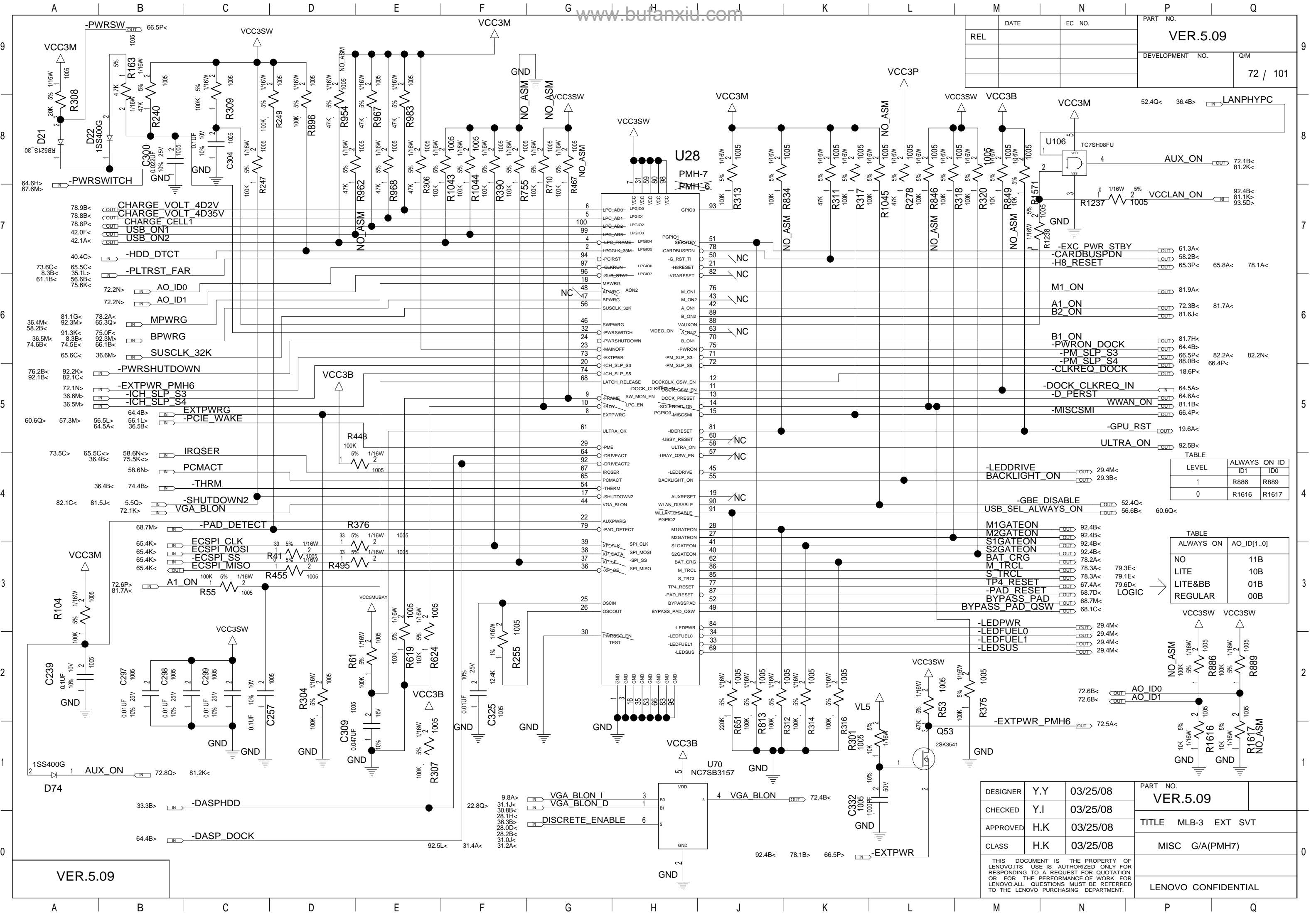
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CLASS	H.K	03/25/08	WIRELESS    DISABLE    SW			
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DATE		EC NO.	PART NO.	
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			Q/M	
			70 / 101	



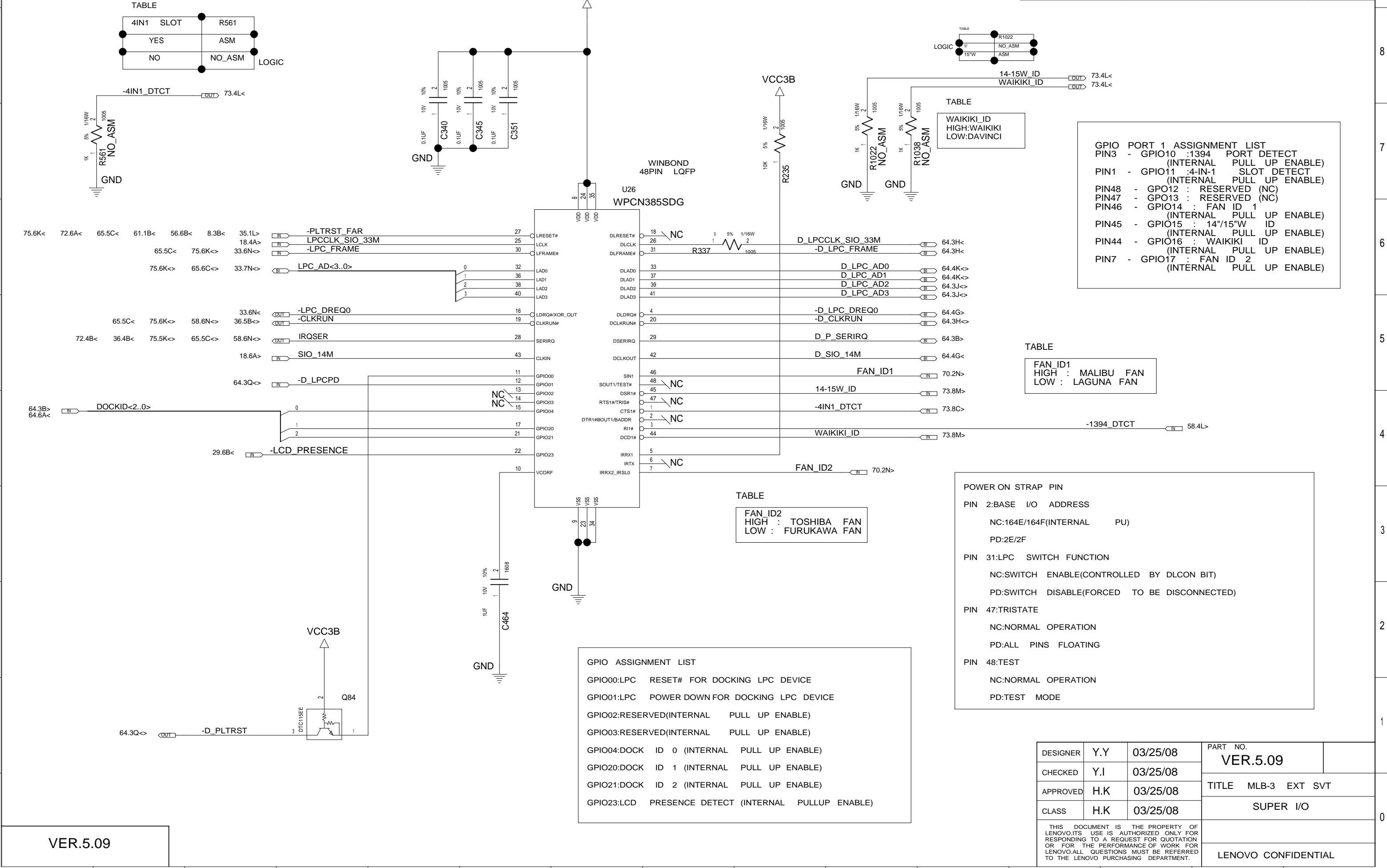
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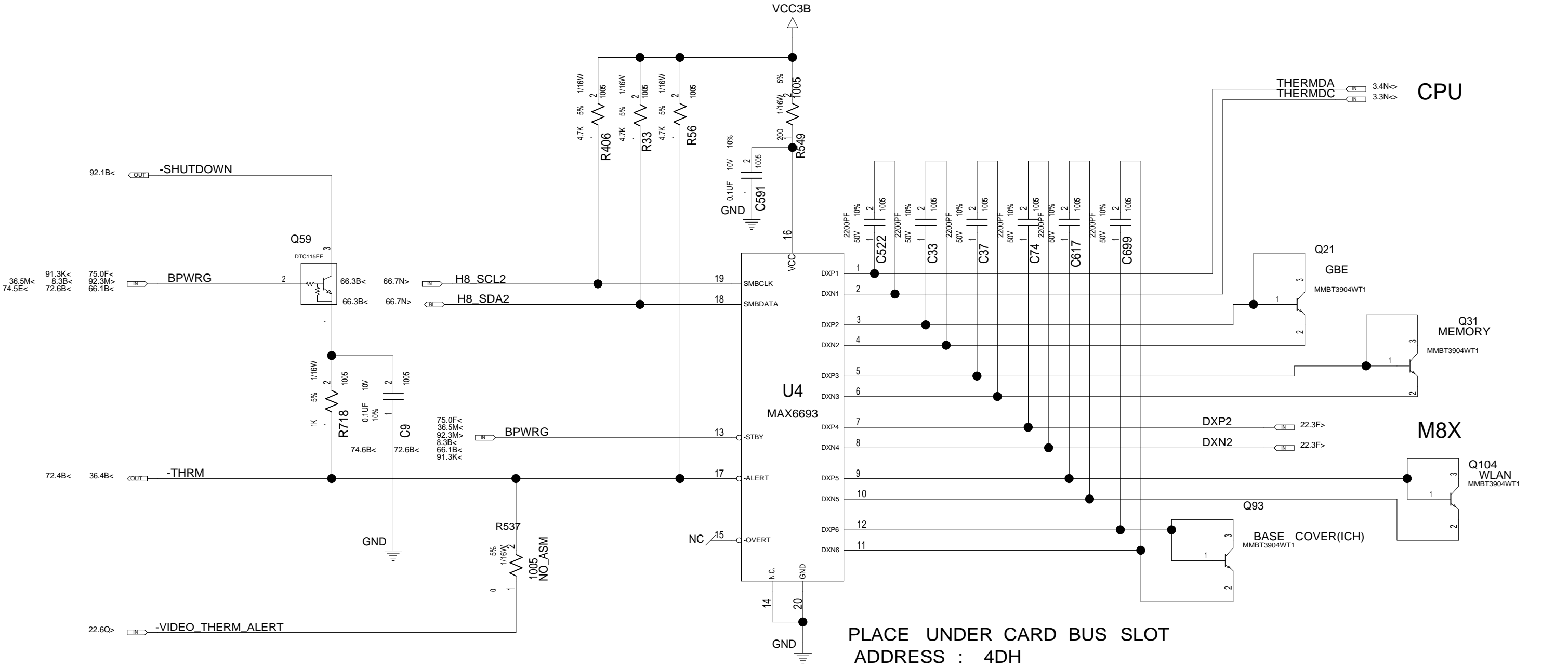




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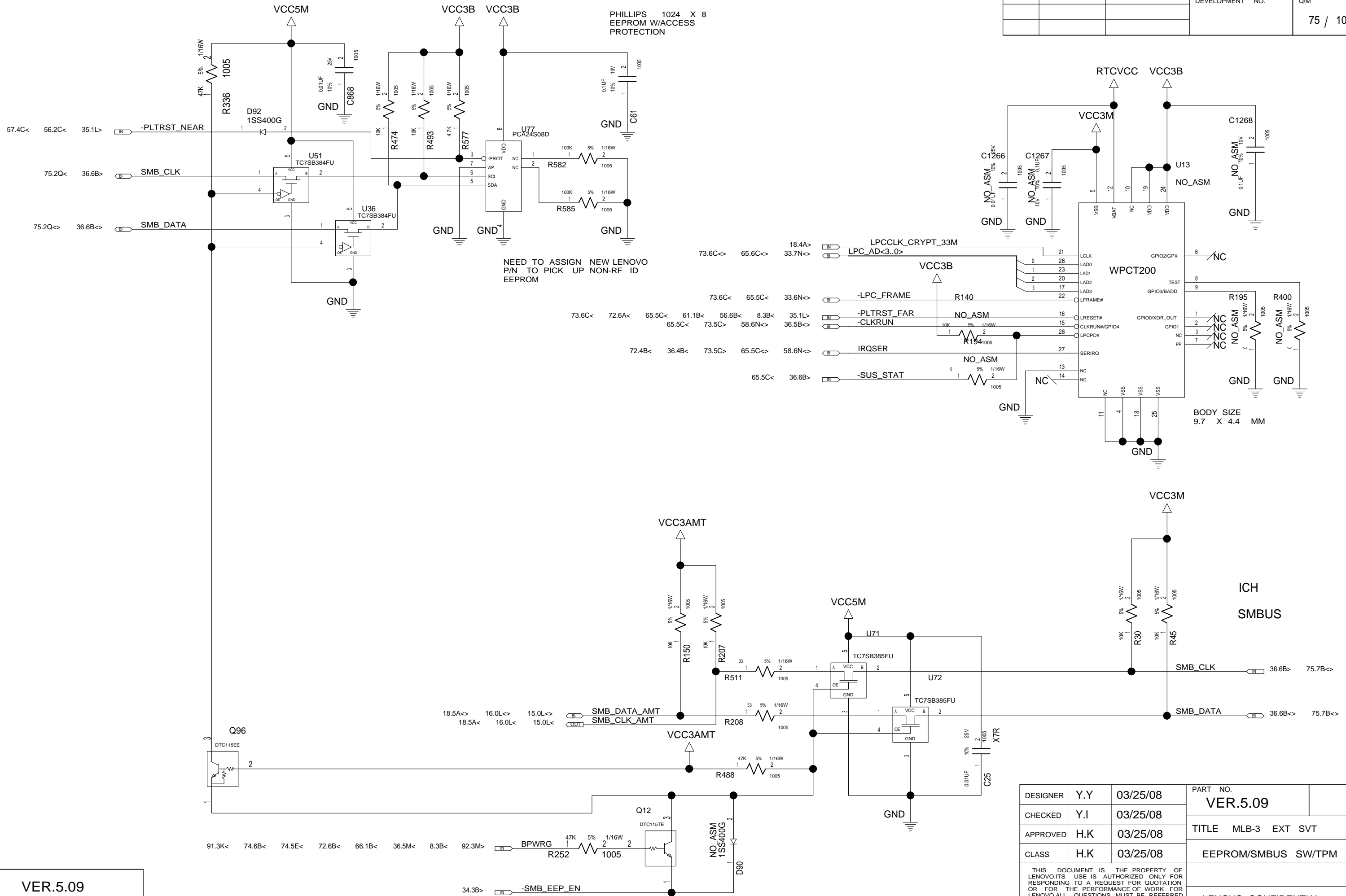


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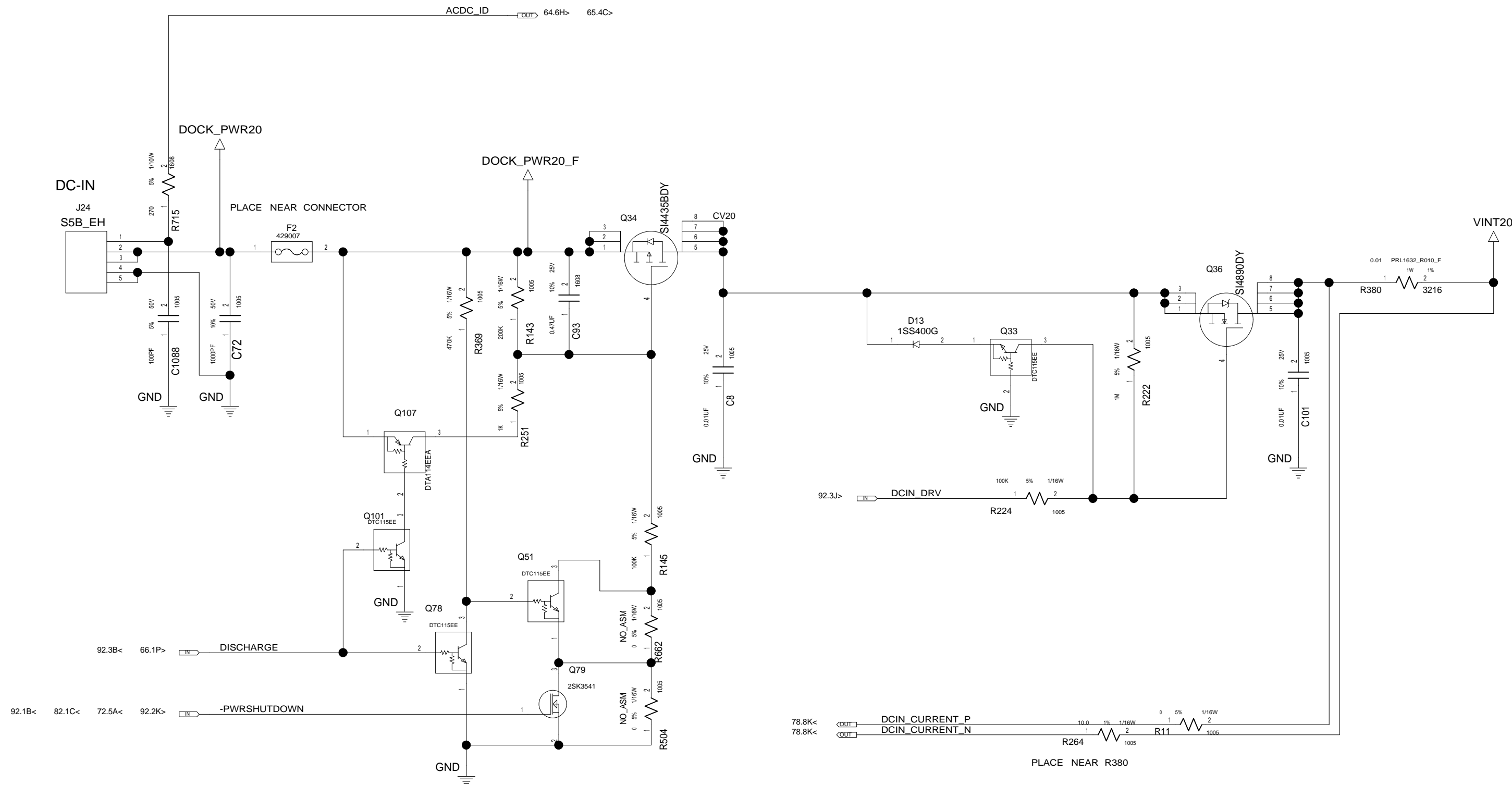
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DATE		EC NO.	PART NO.	
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CLASS	H.K	03/25/08	EEPROM/SMBUS SW/TPM	
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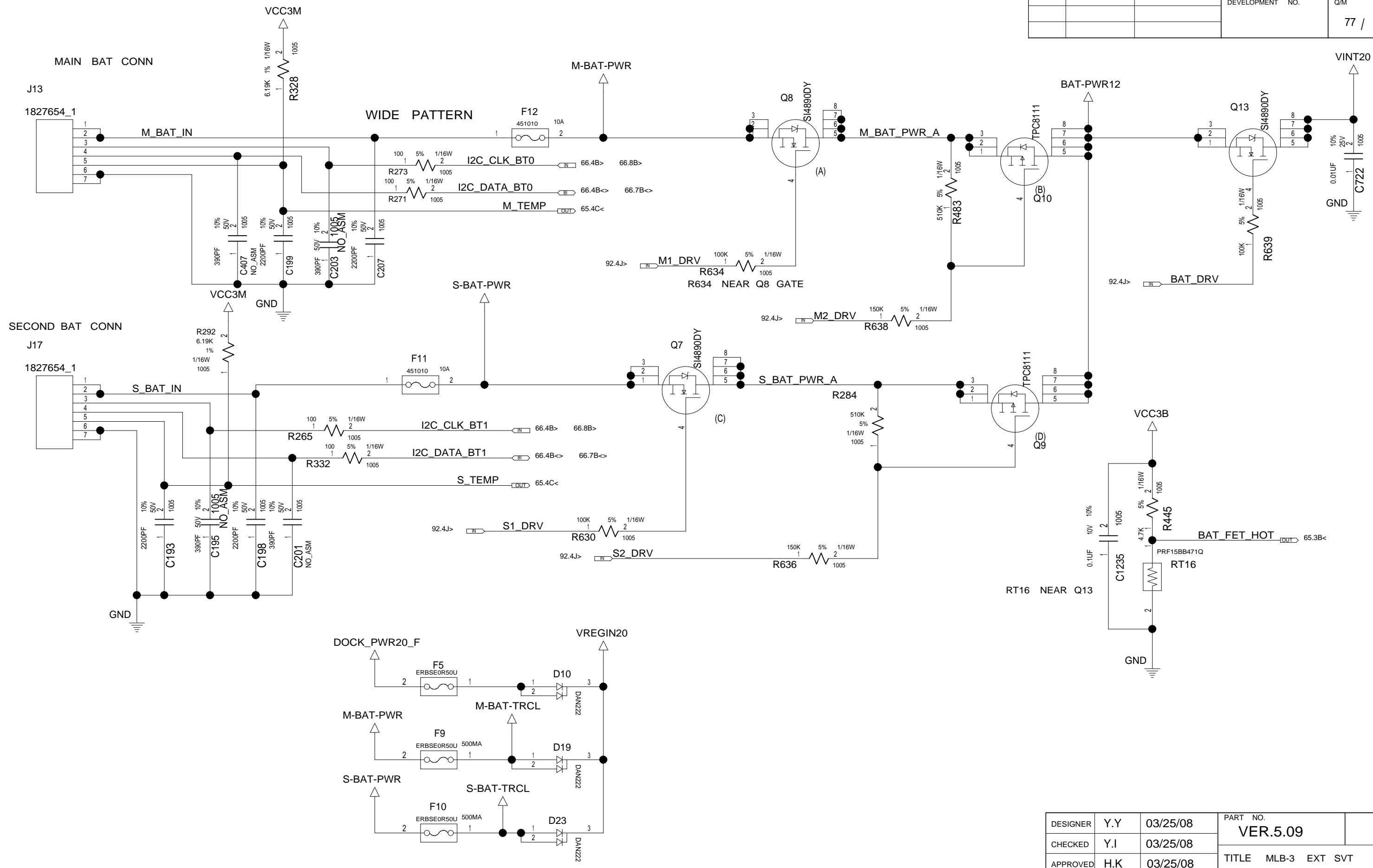
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LOGIC

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CLASS	H.K	03/25/08	DC-IN	
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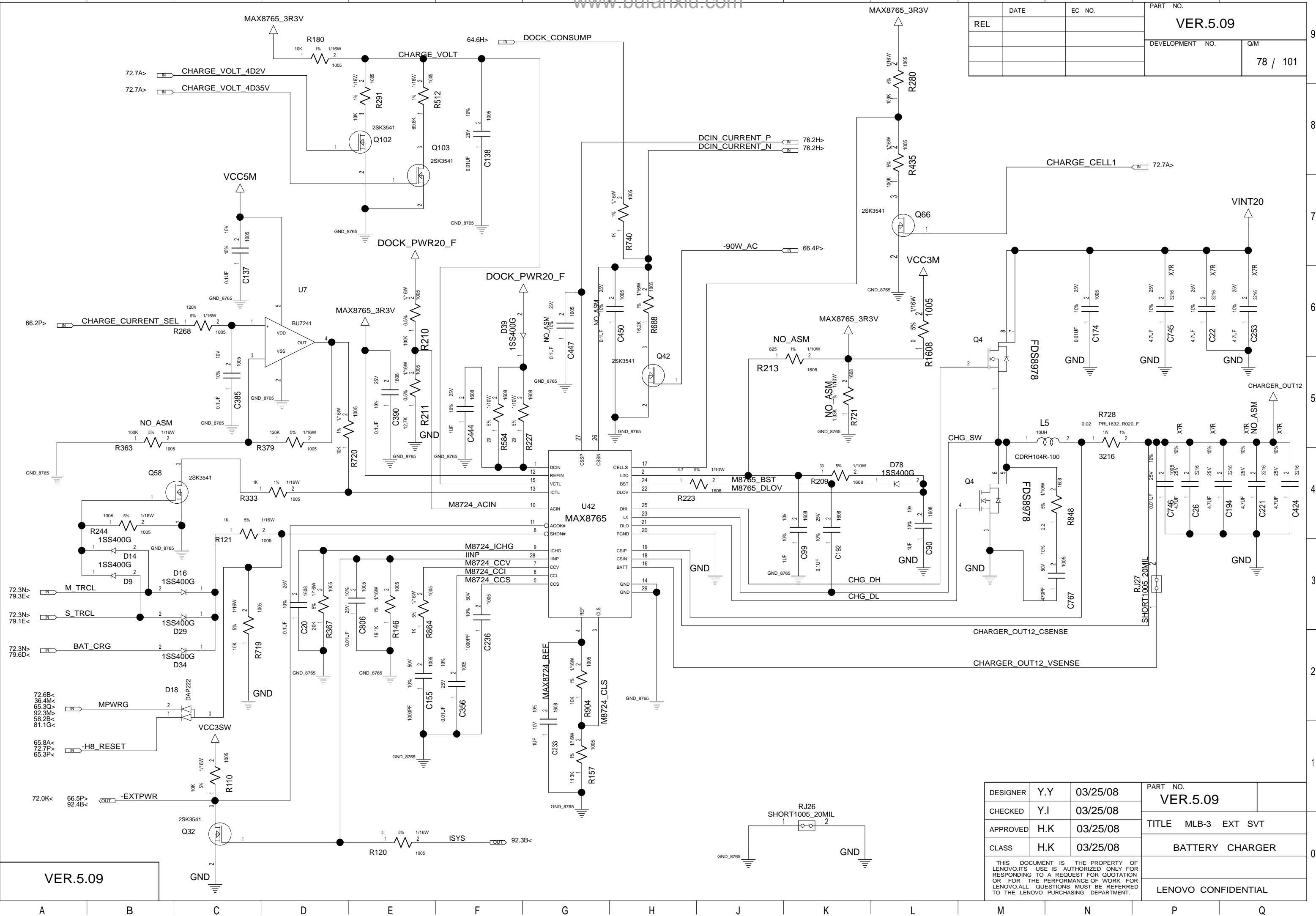
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				77 / 101



VER.5.09

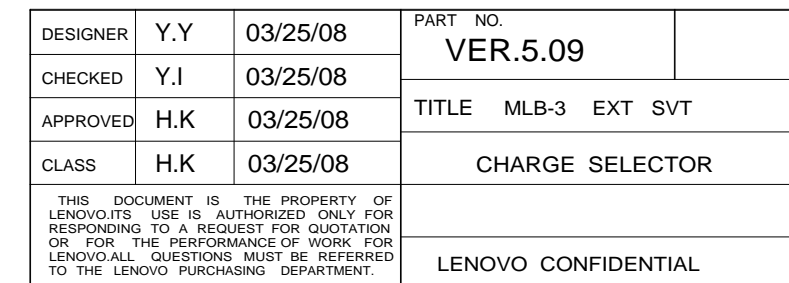
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CLASS	H.K	03/25/08	BATTERY INPUT	
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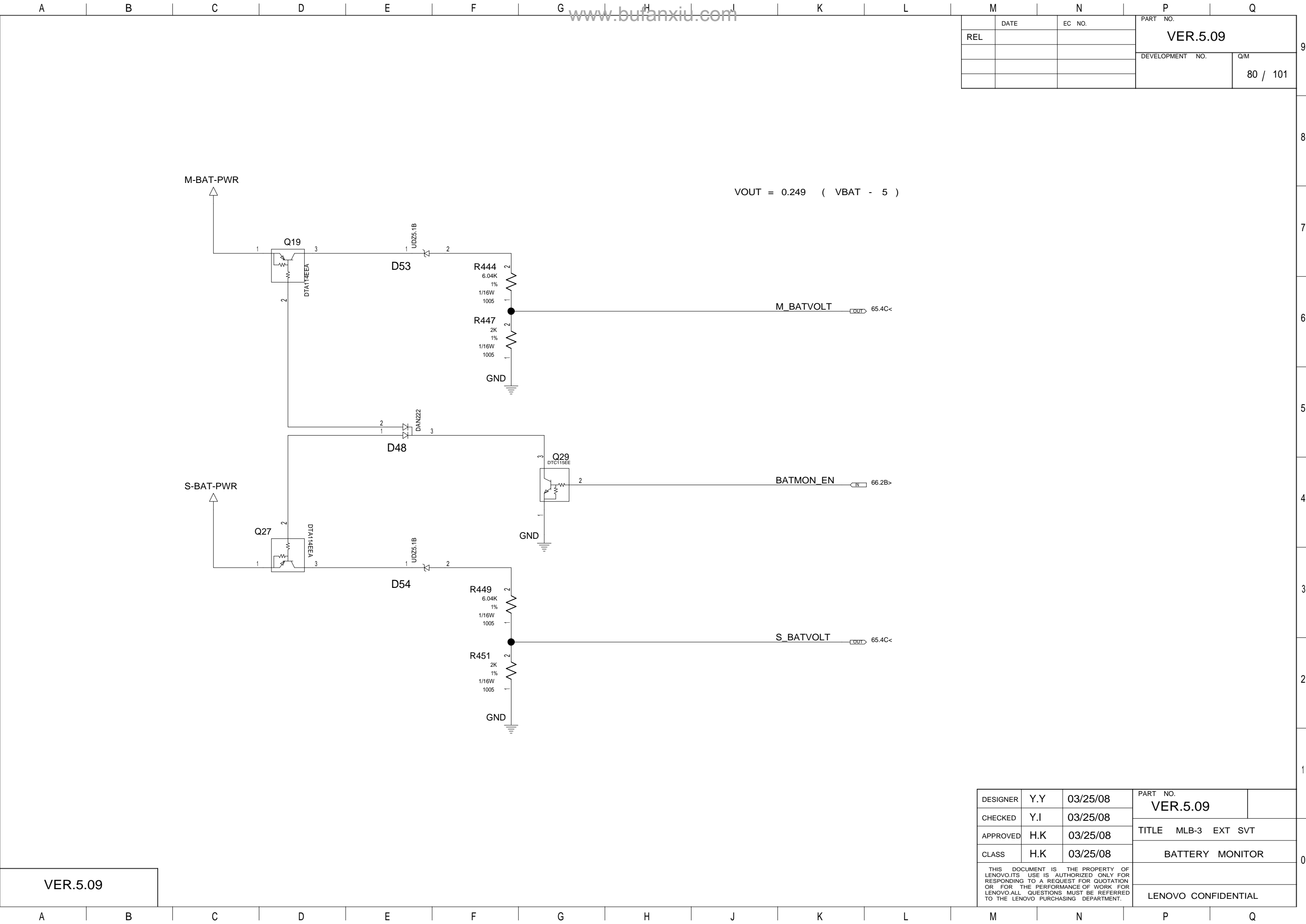
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				78 / 101	



VER.5.09

DESIGNER	Y.Y	03/25/08	PART NO.	
CHECKED	Y.I	03/25/08	VER.5.09	
APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	BATTERY CHARGER	
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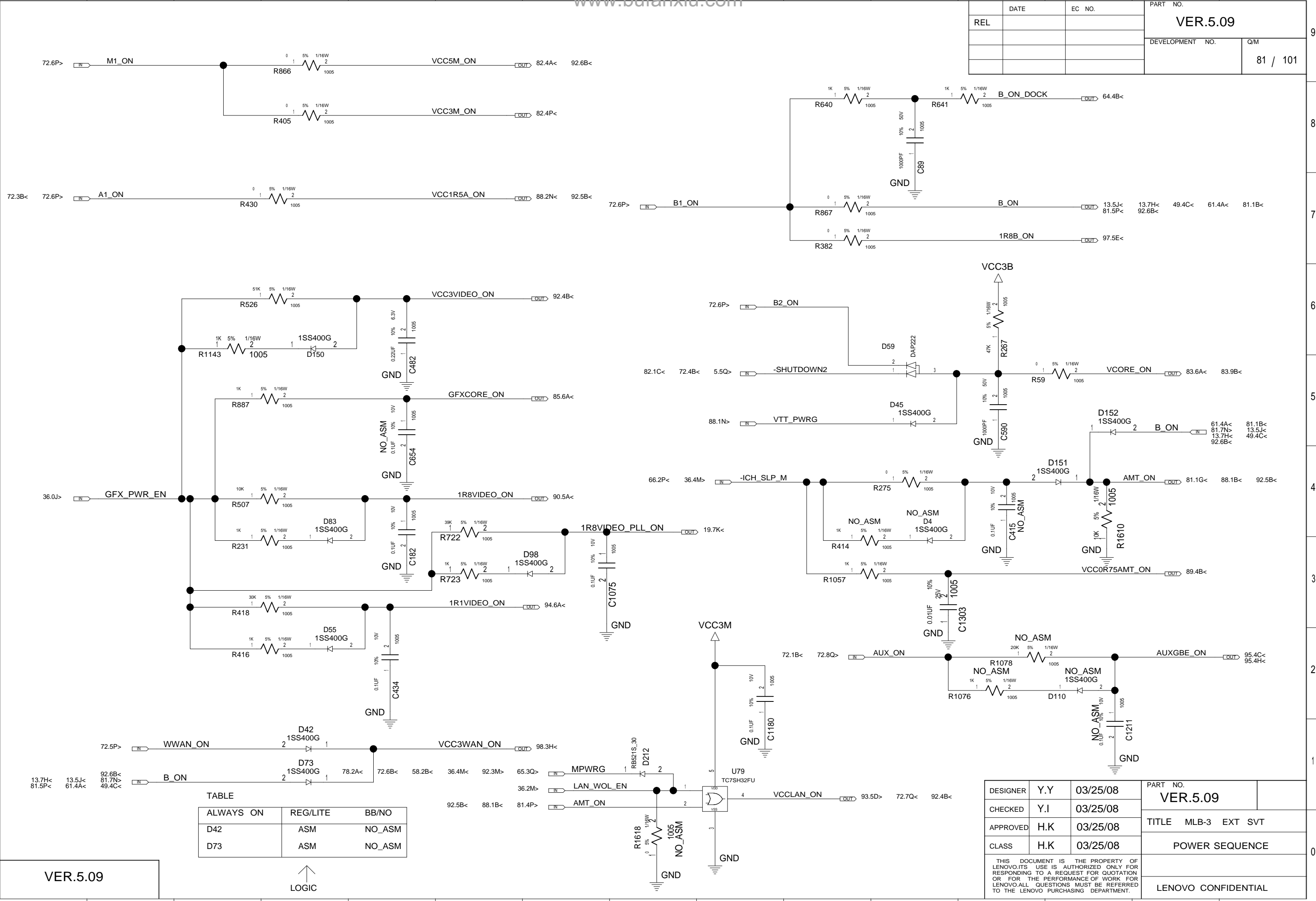


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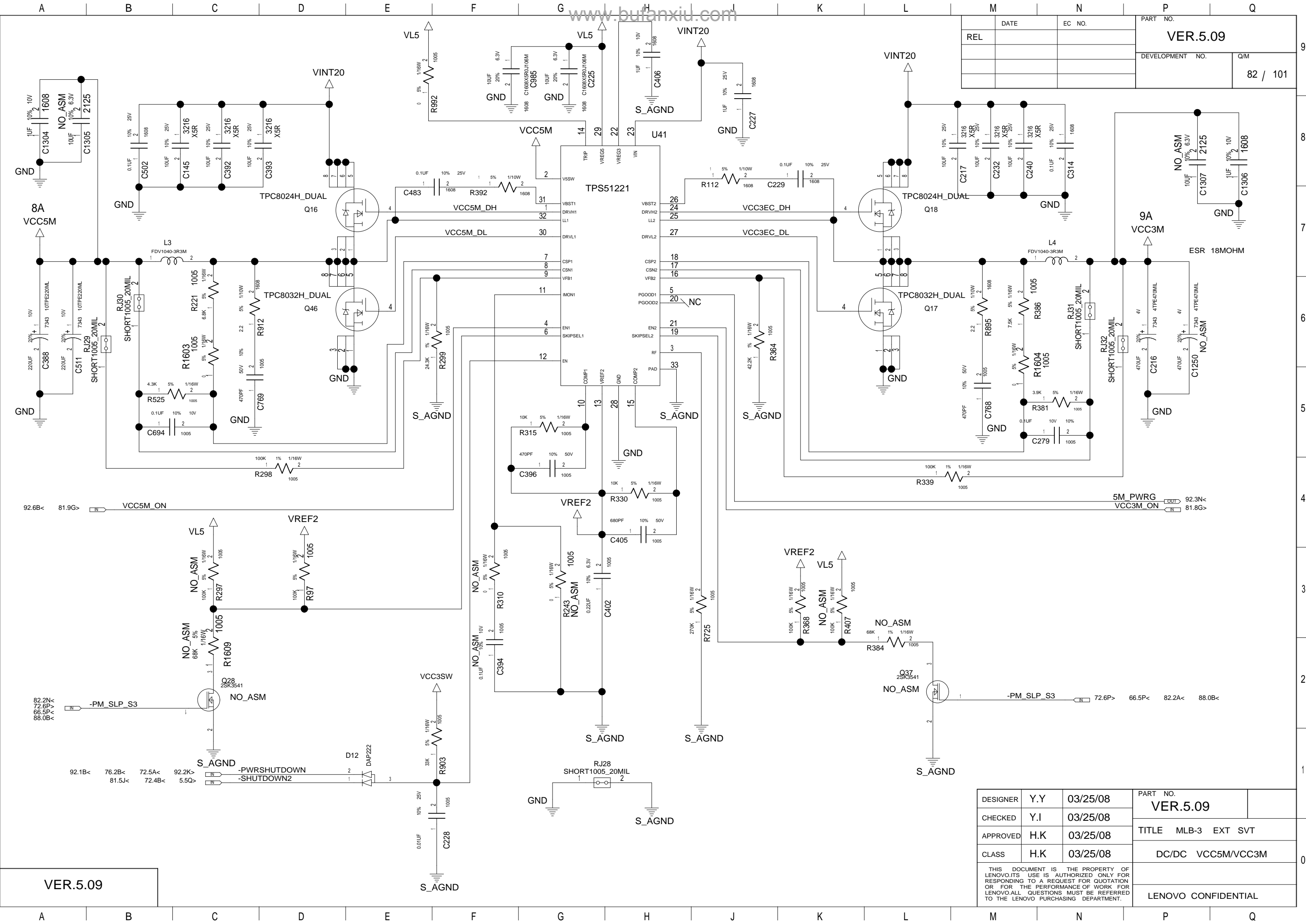
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CLASS	H.K	03/25/08	BATTERY MONITOR	
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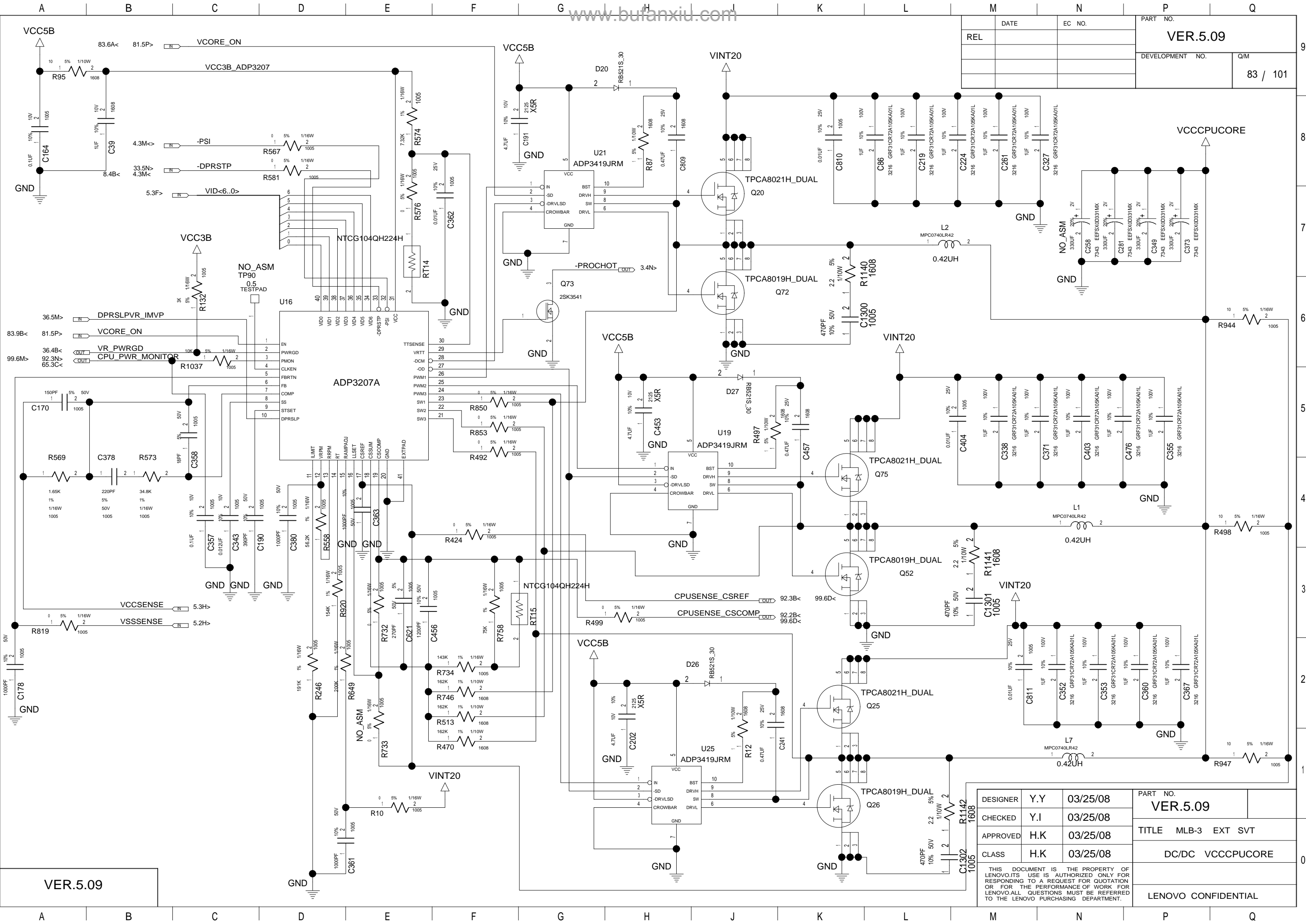
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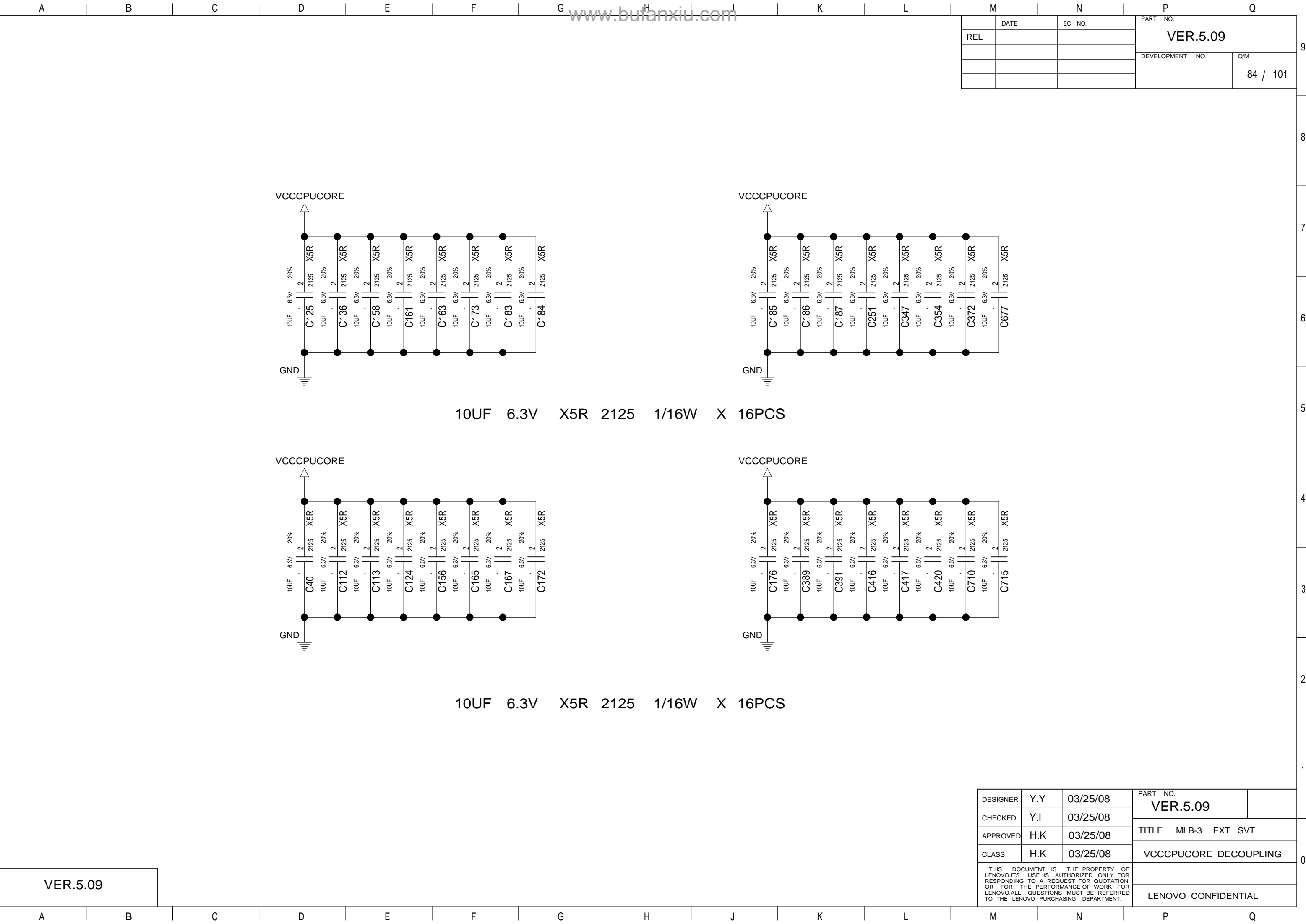
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REL	DATE	EC NO.	PART NO.	
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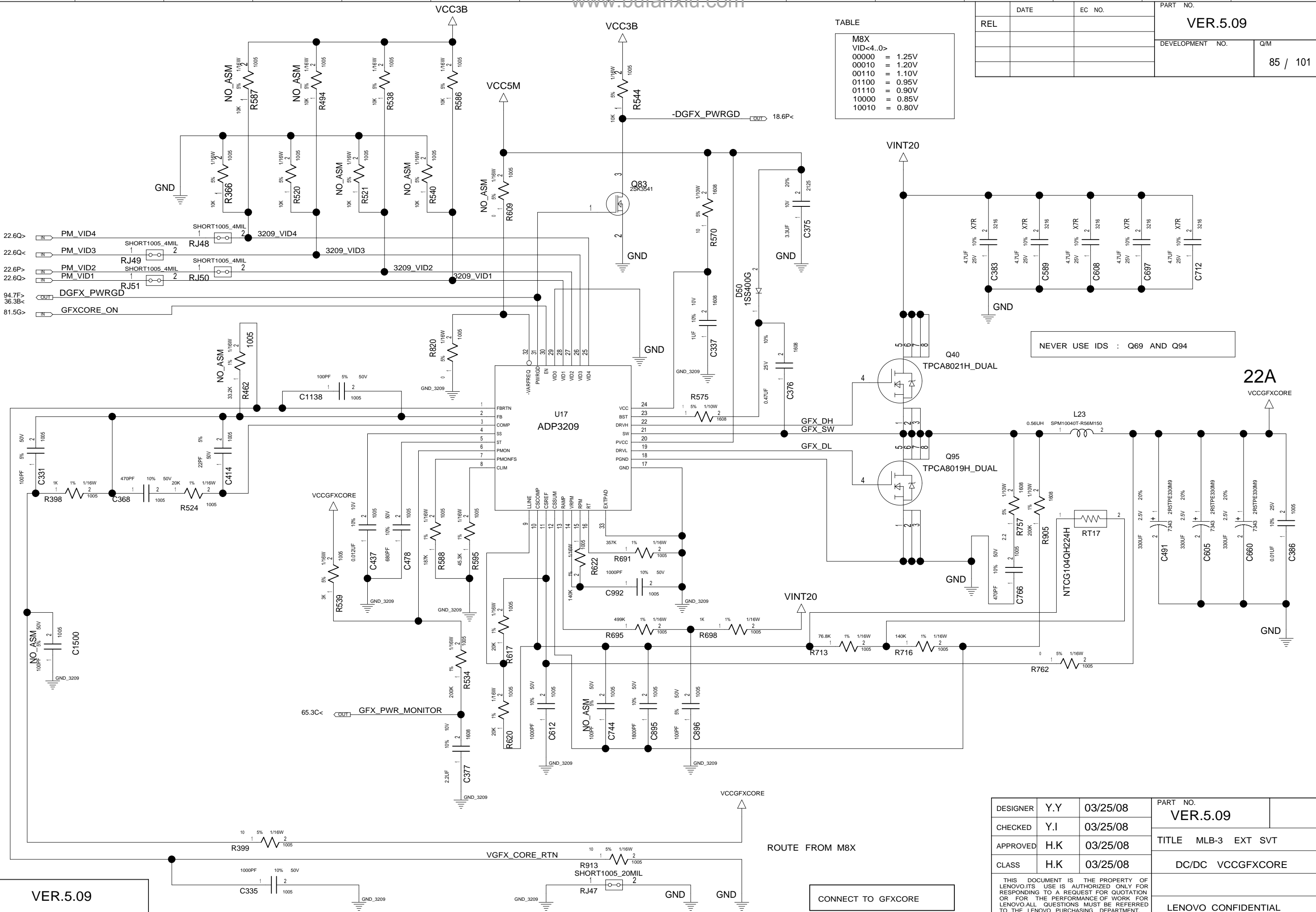
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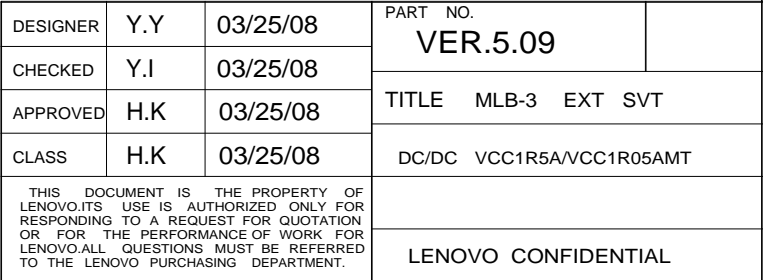
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CLASS	H.K	03/25/08	LENOVO CONFIDENTIAL	

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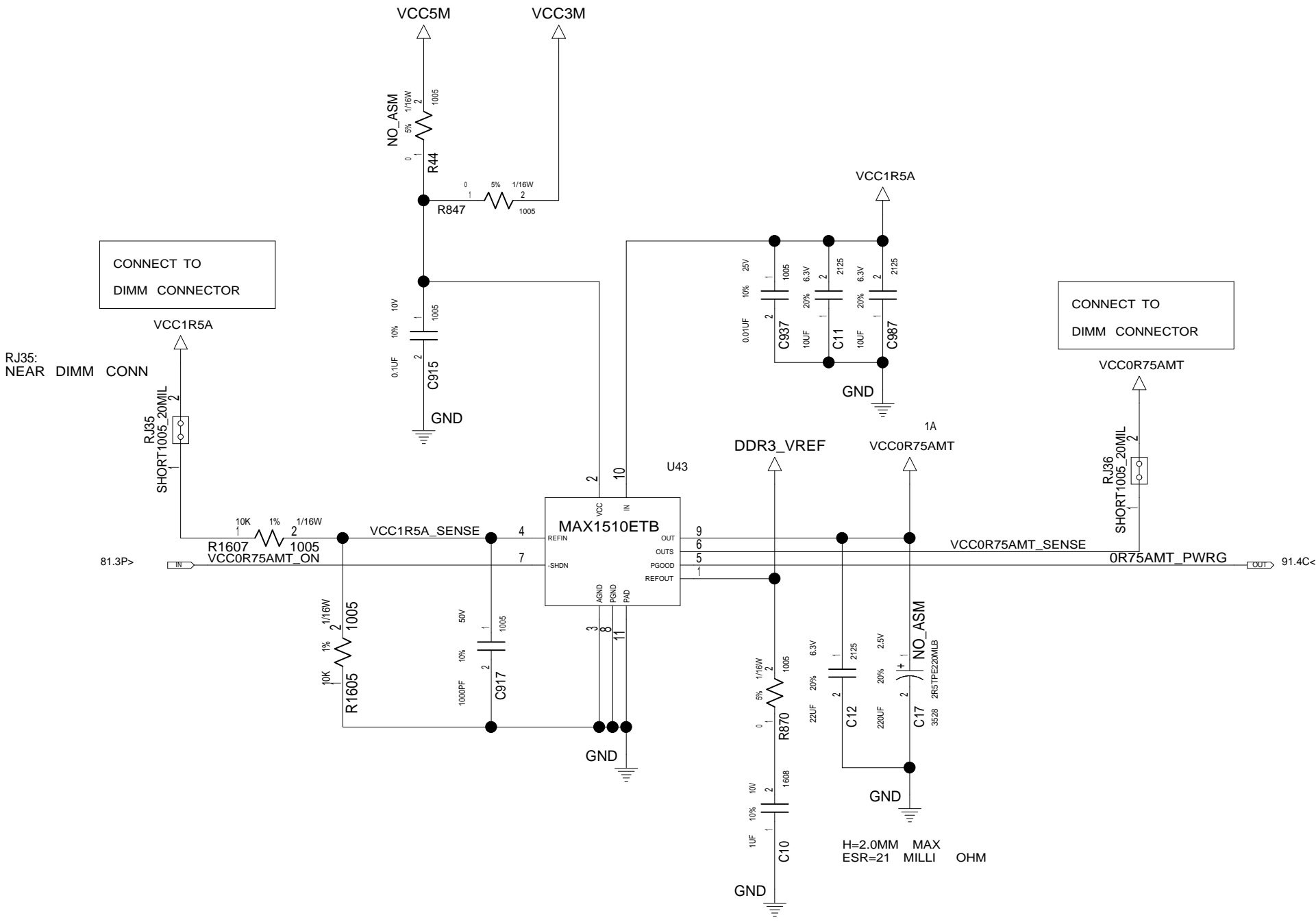
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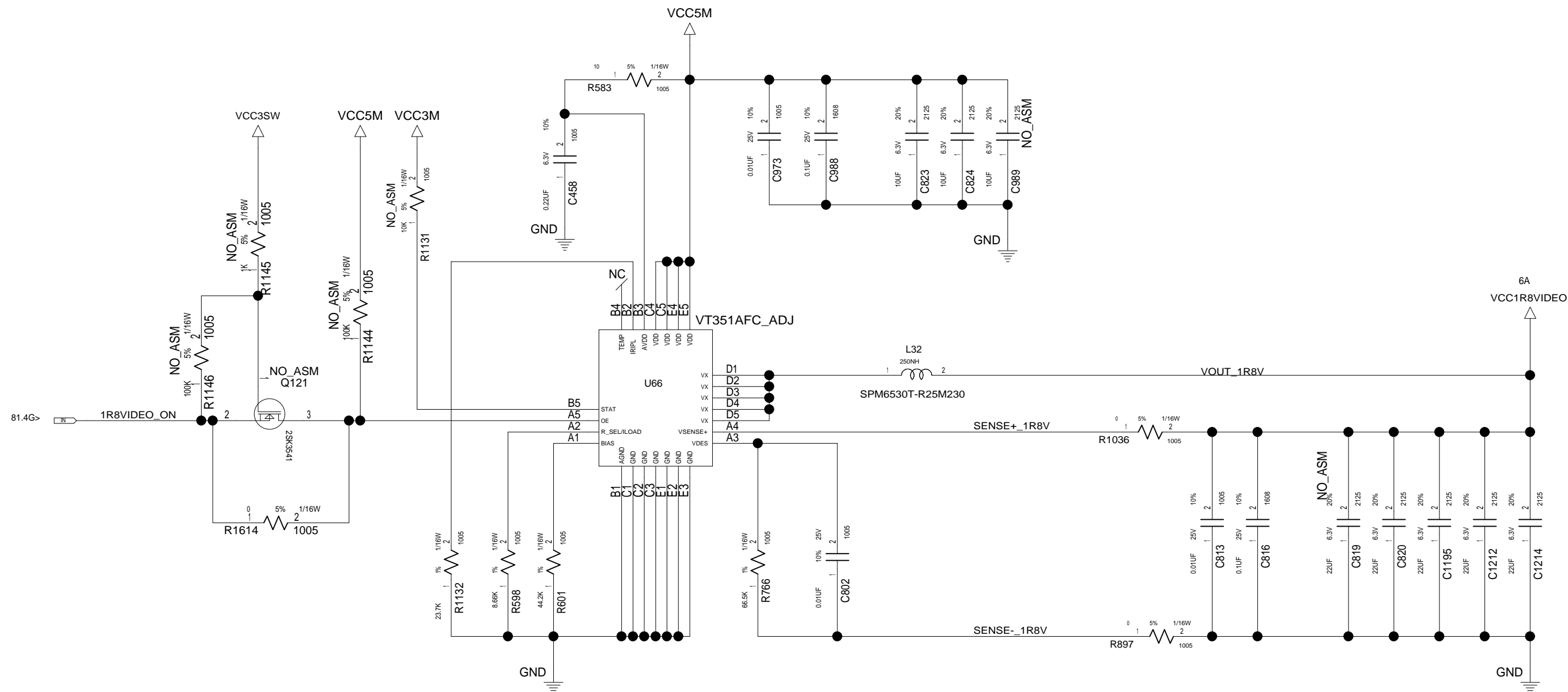


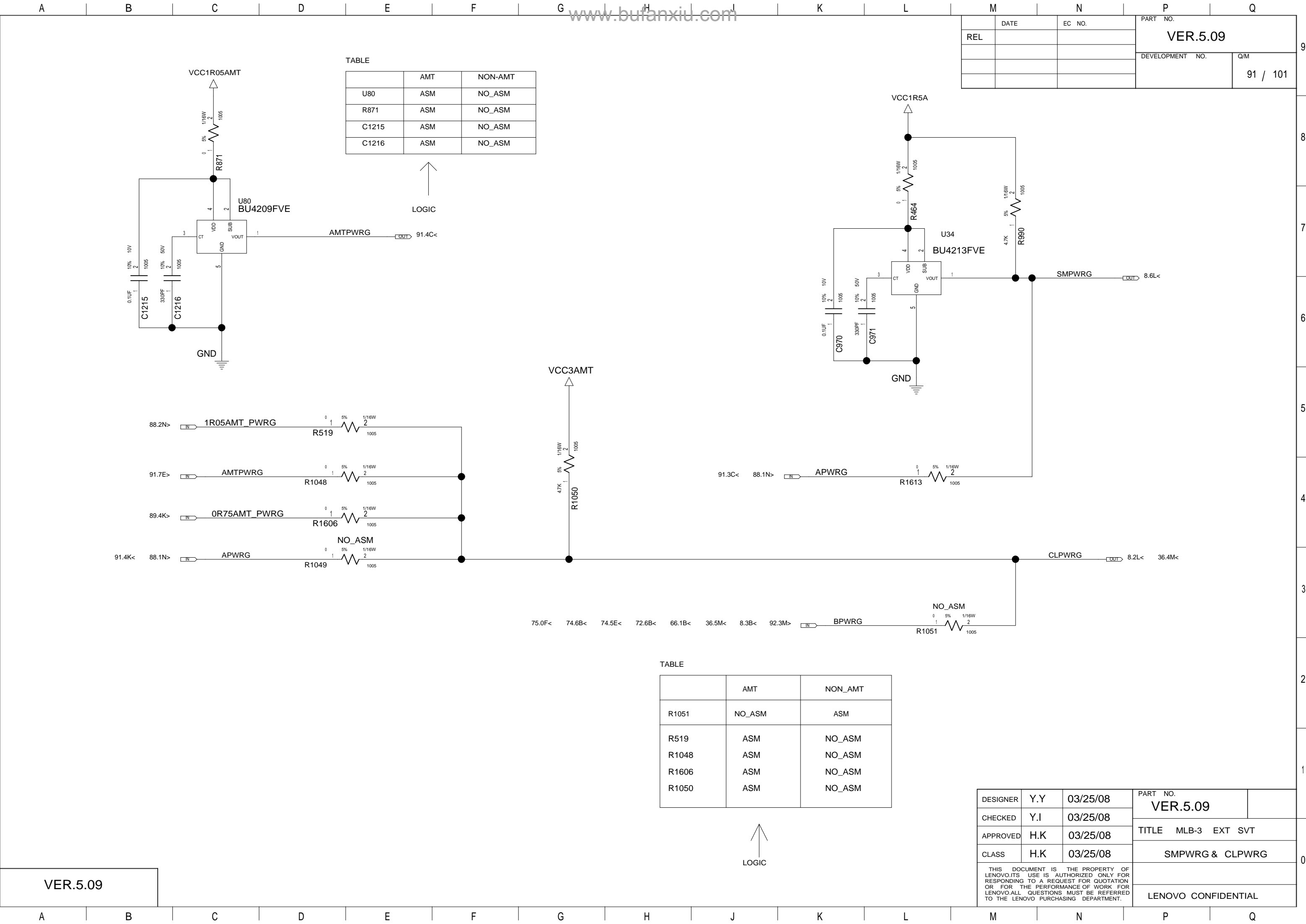


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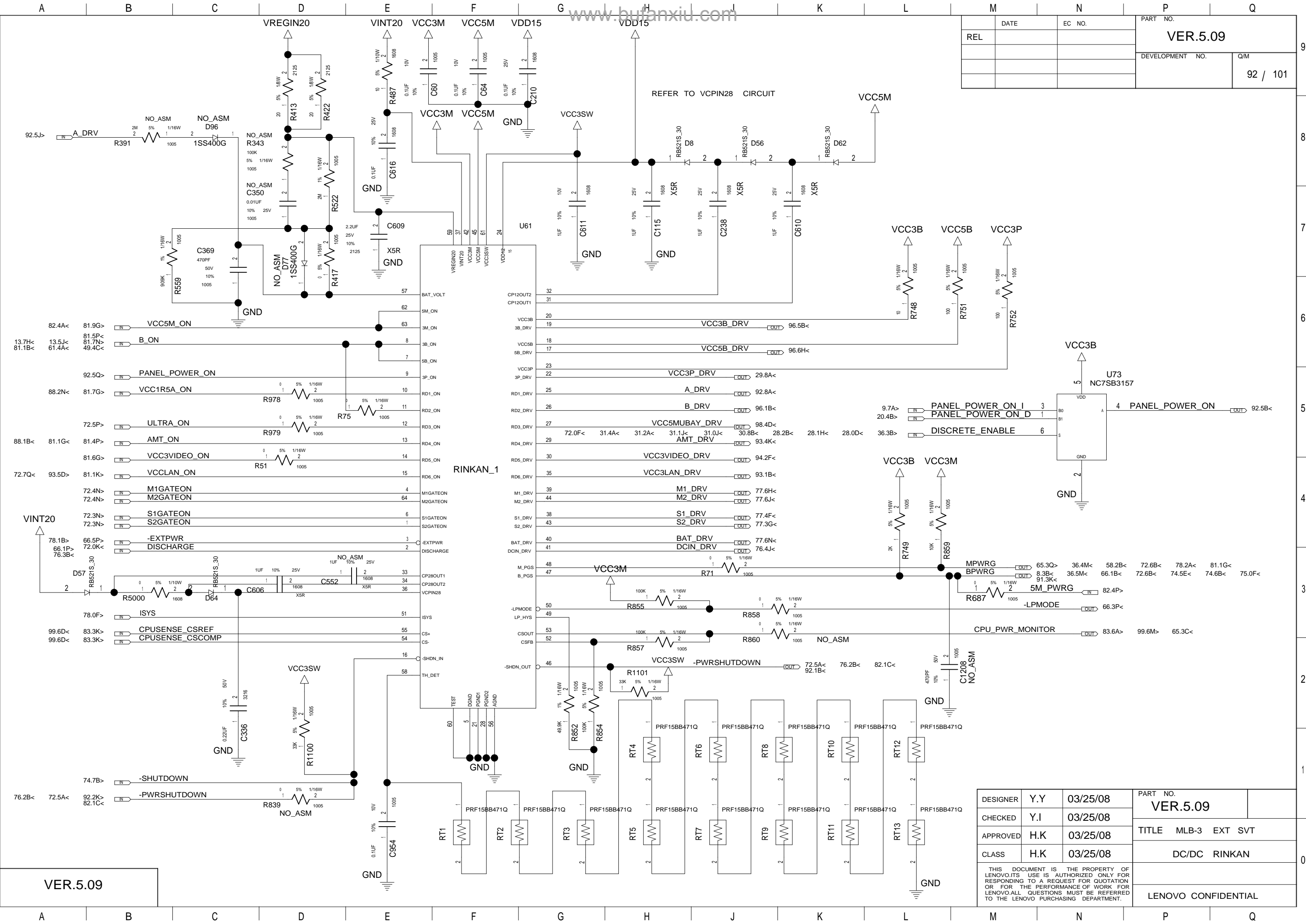




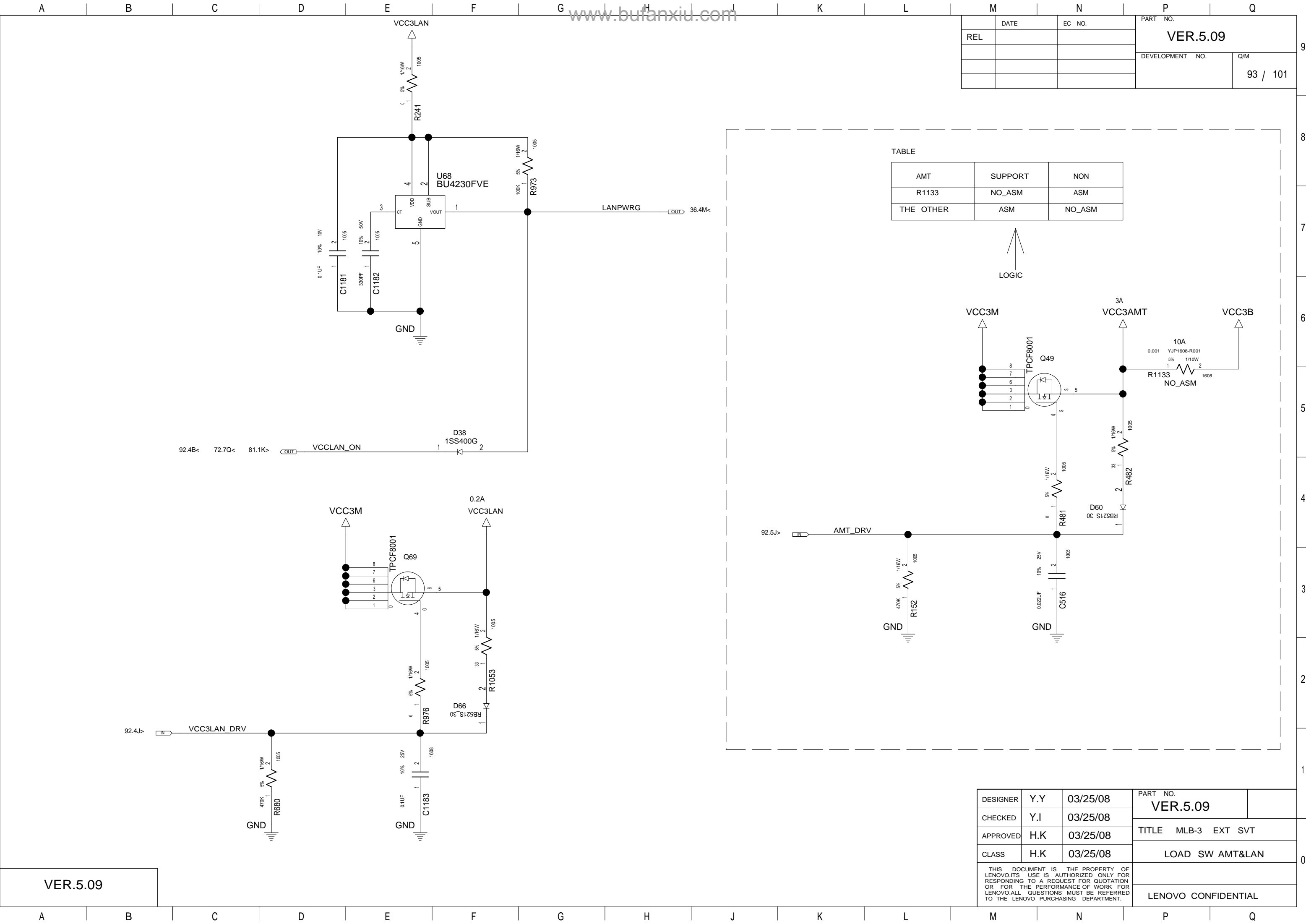
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DATE		EC NO.		PART NO.	
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DESIGNER	Y.Y	03/25/08	PART NO.	
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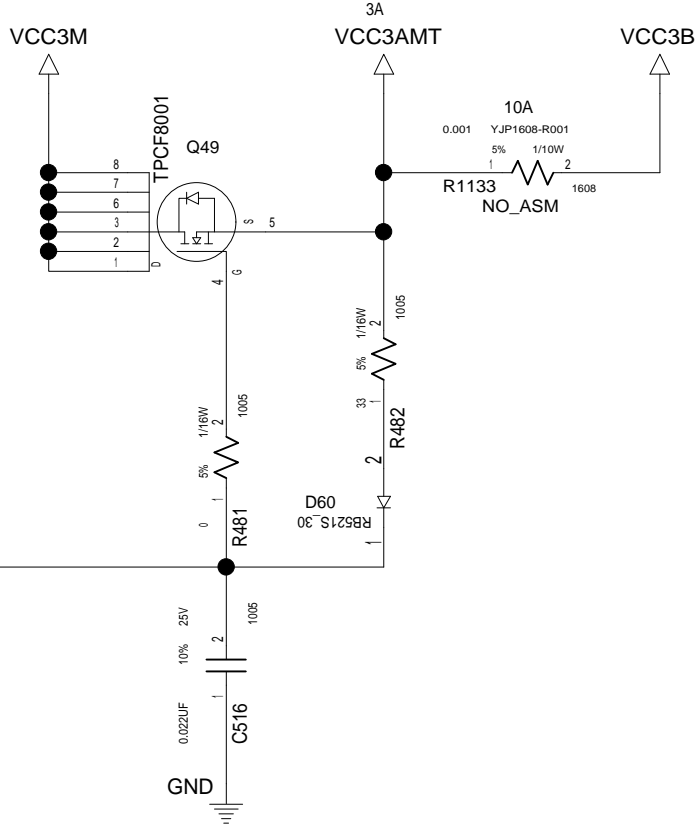


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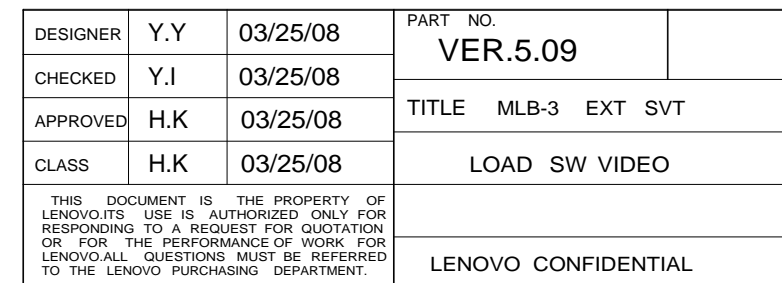
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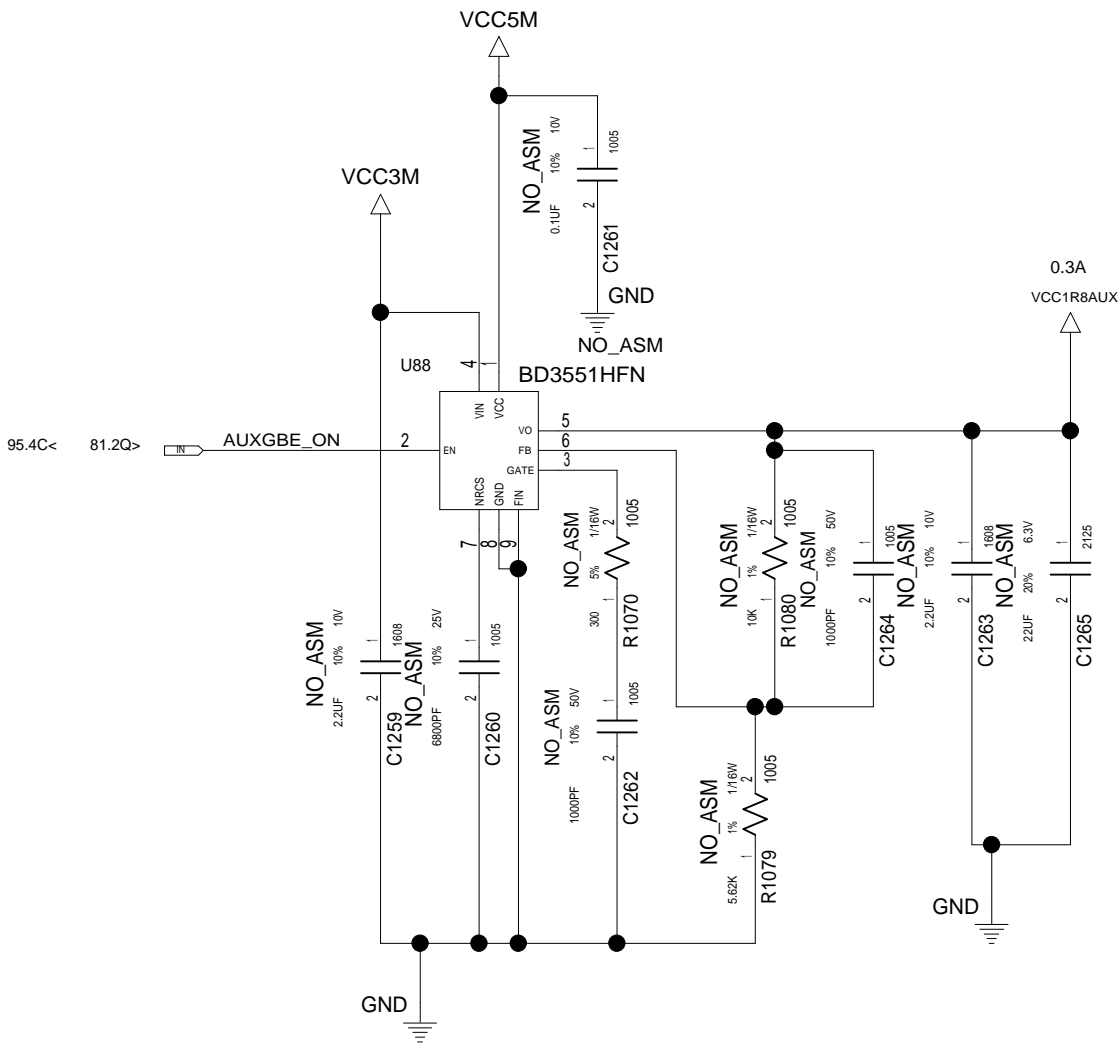
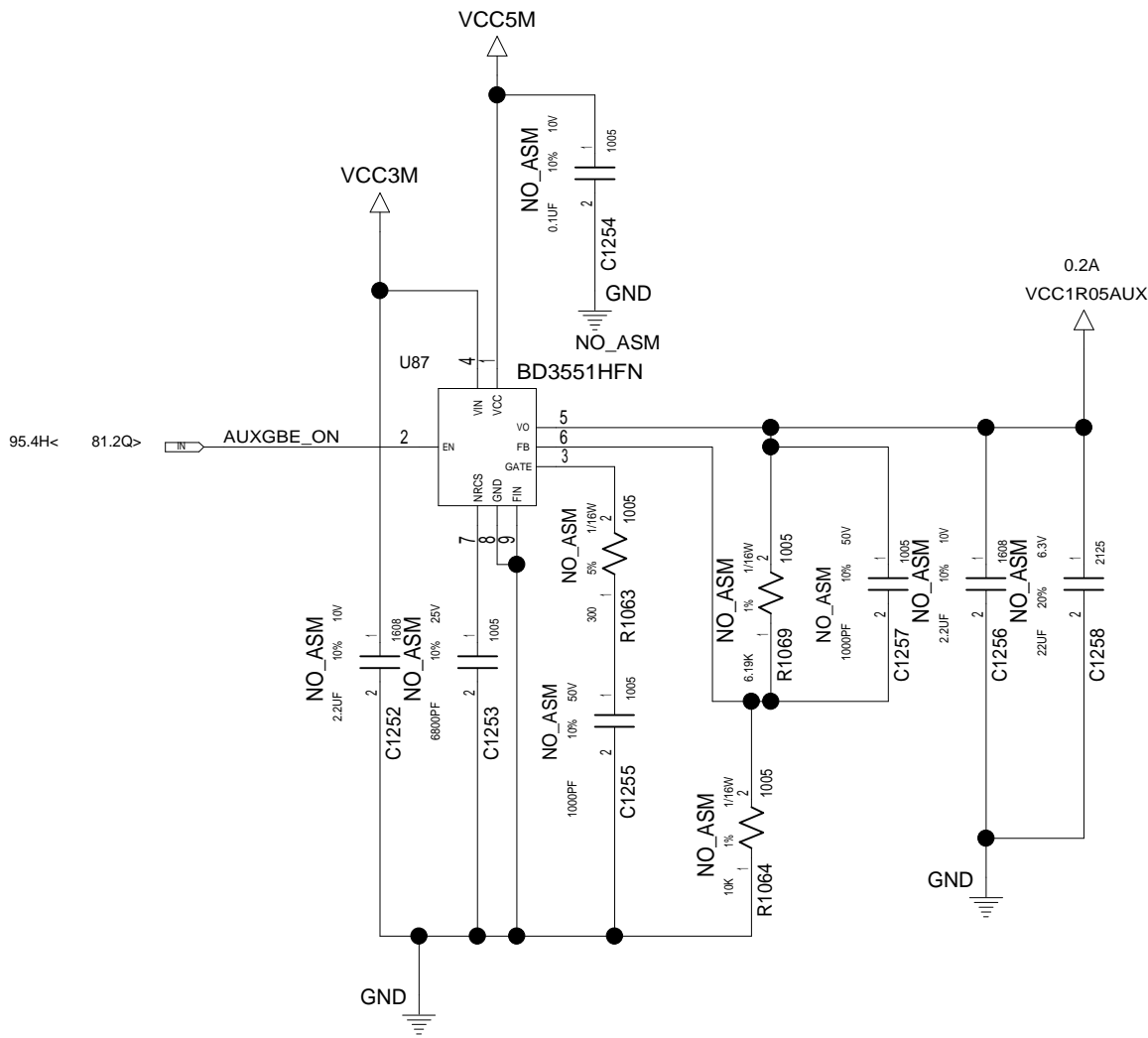


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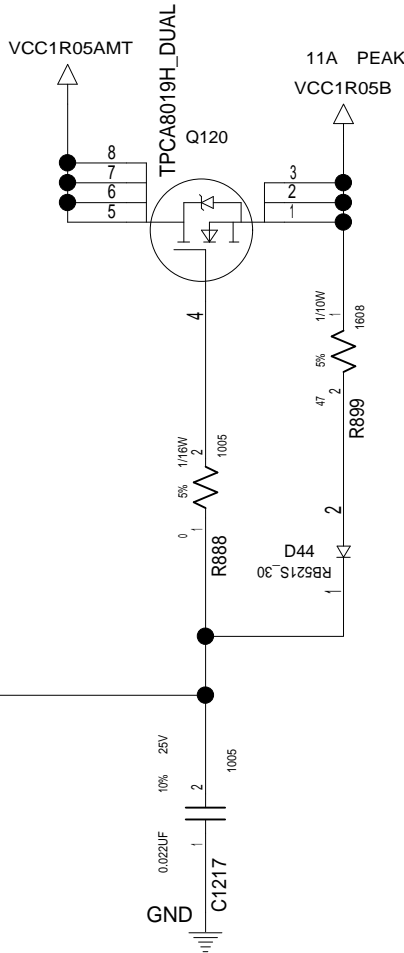
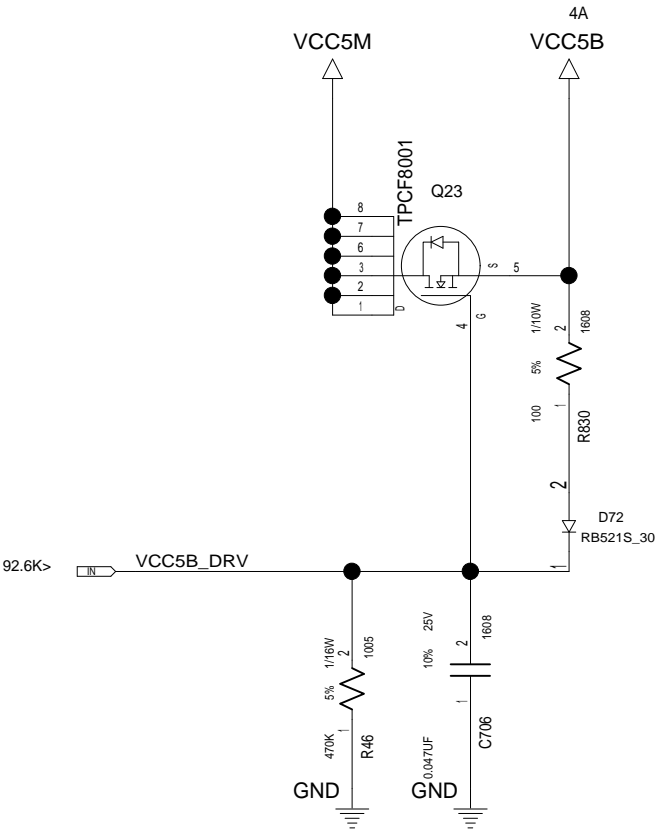
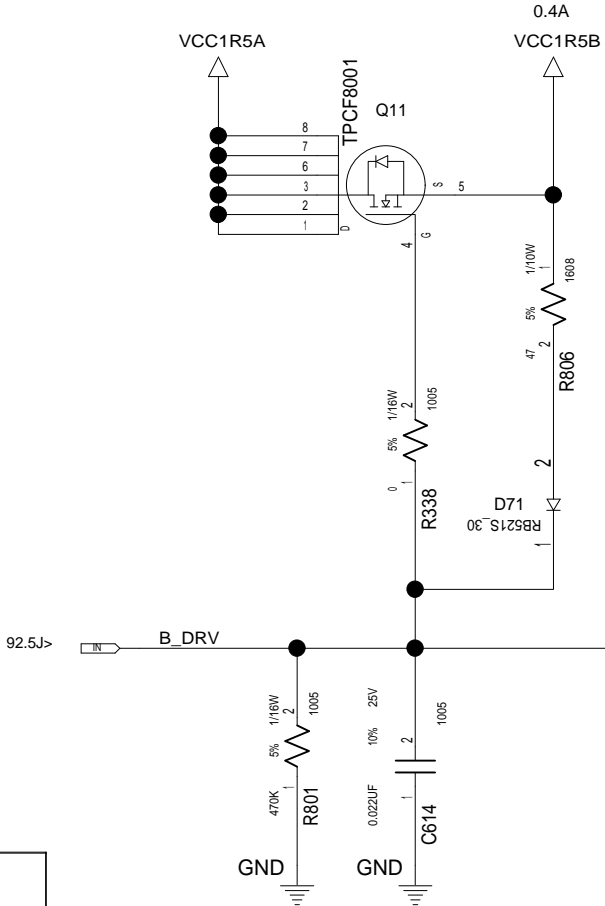
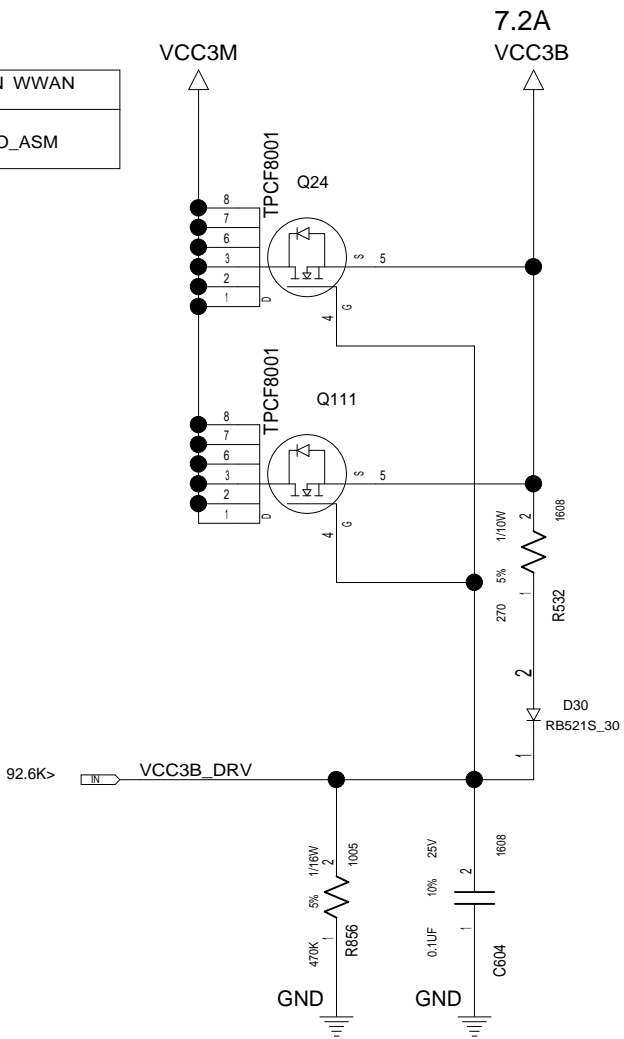
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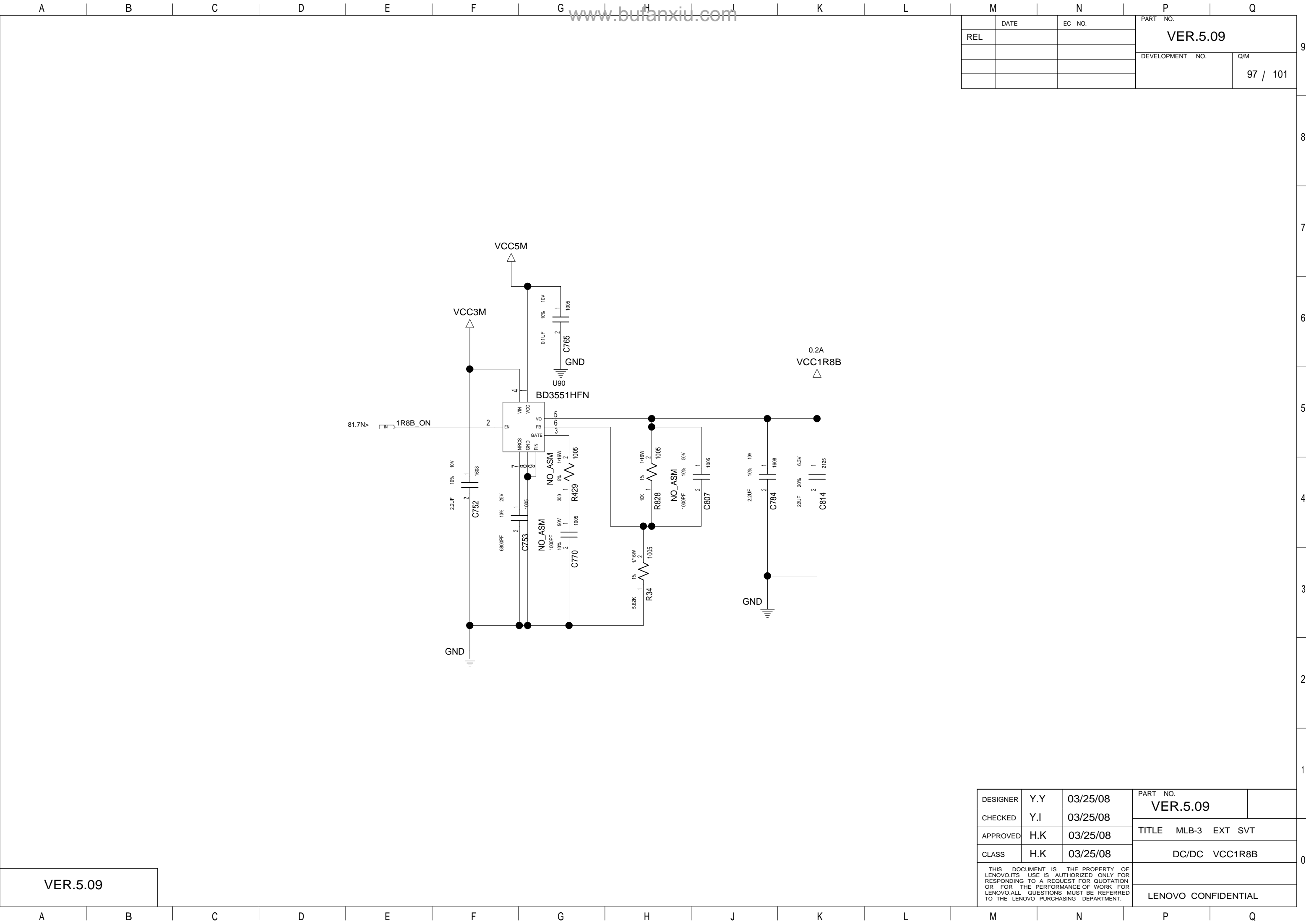
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DESIGNER	Y.Y	03/25/08	PART NO.	
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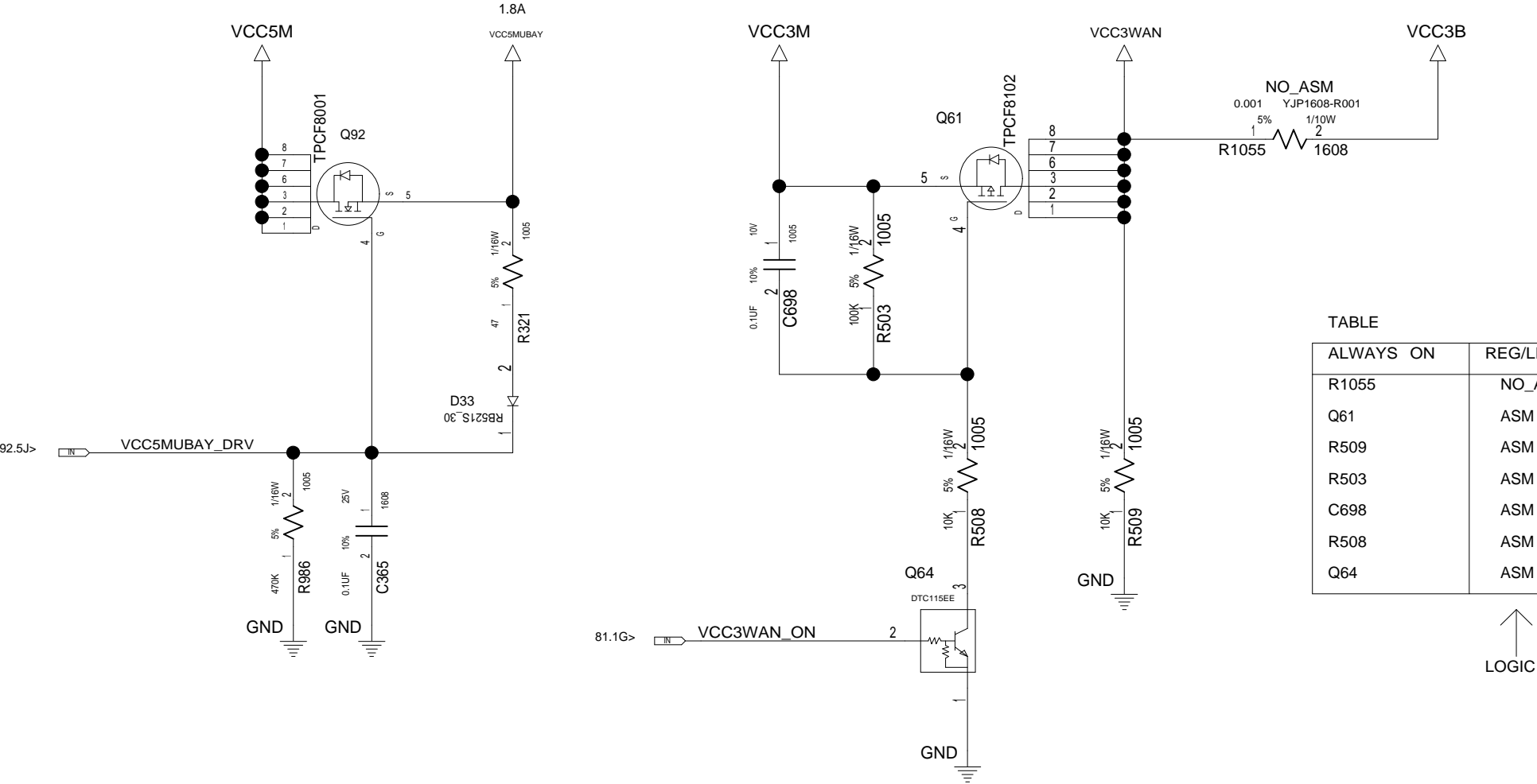


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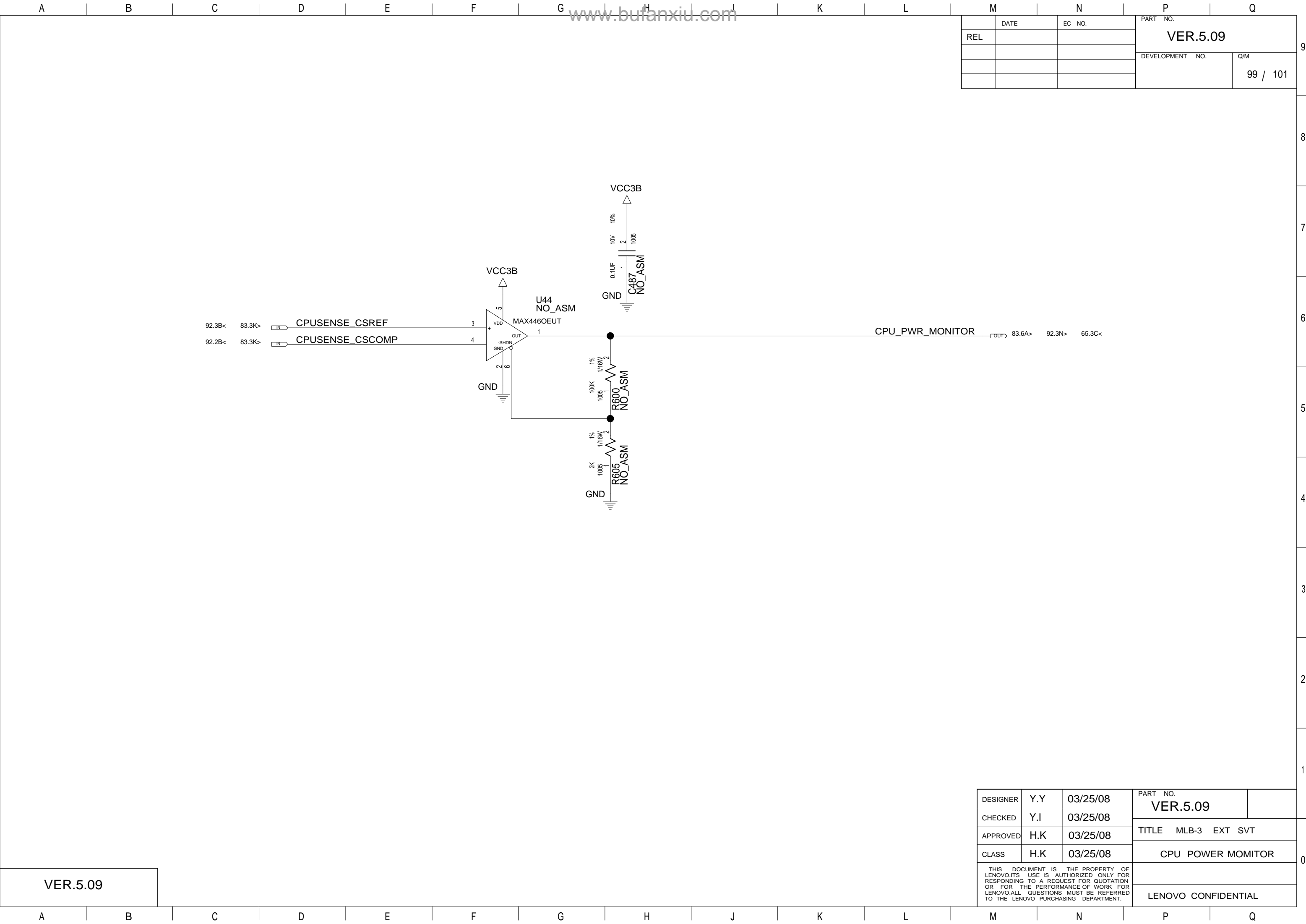
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APPROVED	H.K	03/25/08	TITLE MLB-3 EXT SVT	
CLASS	H.K	03/25/08	LOAD SW UBAY&WWAN	
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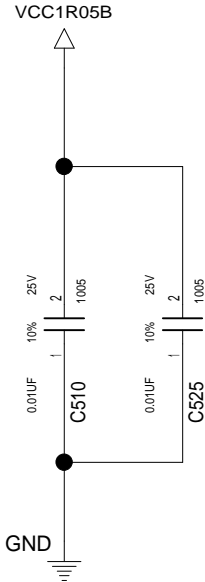
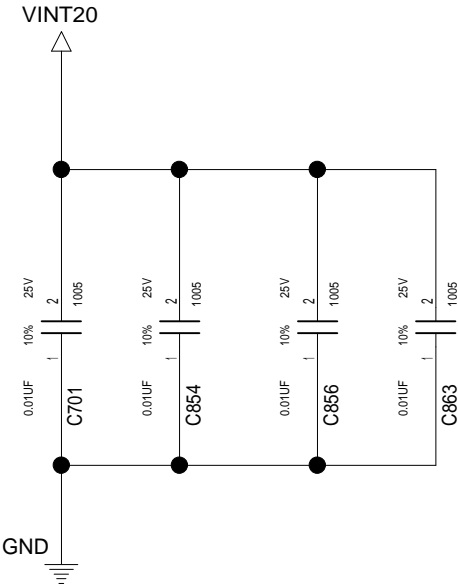
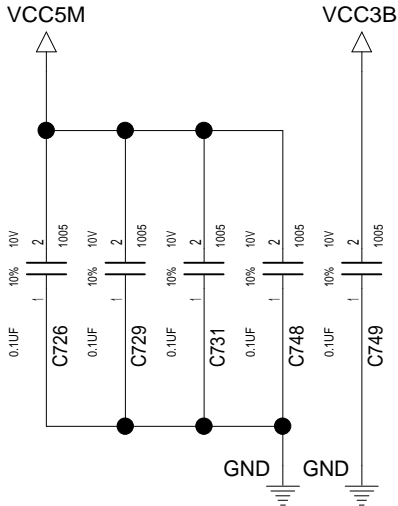
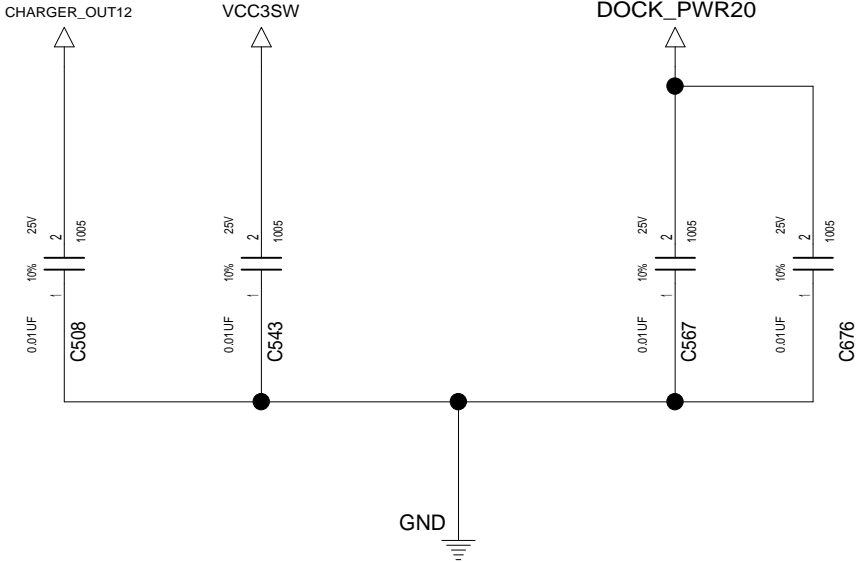
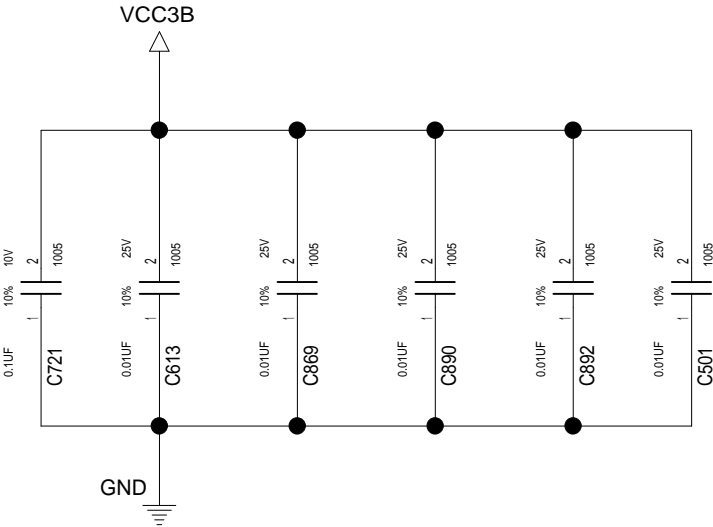
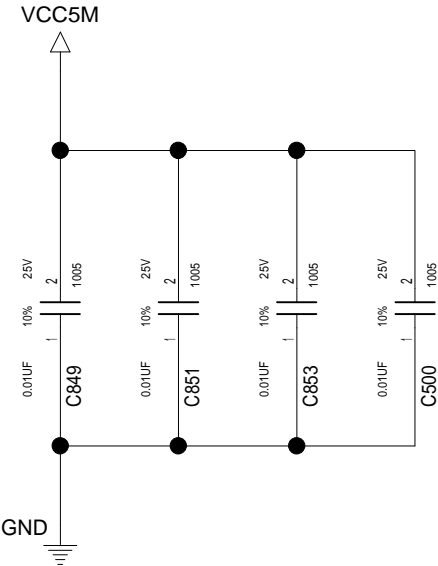
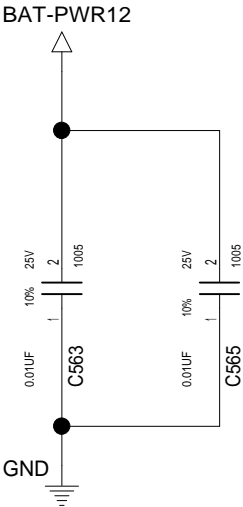
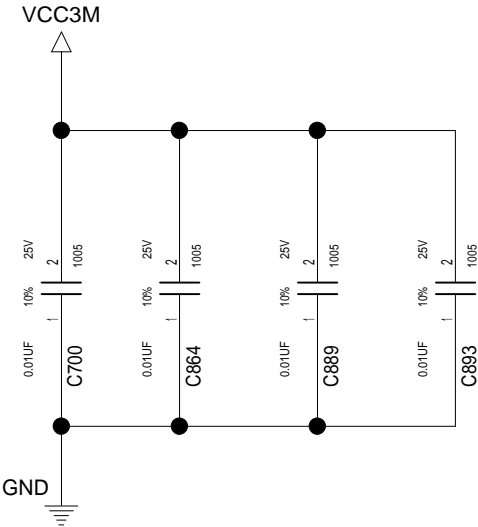
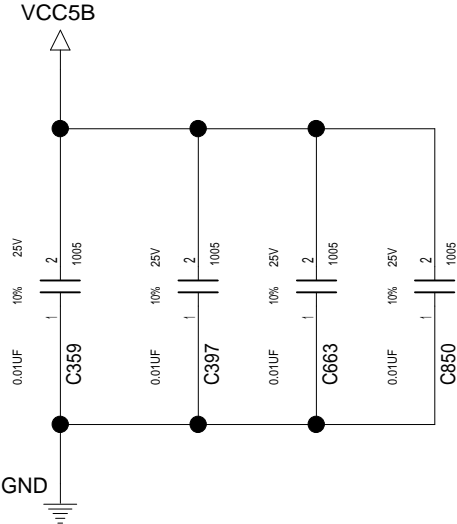


		DATE		EC NO.		PART NO.	
REL						VER.5.09	
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VER.5.09

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CHECKED	Y.I	03/25/08	VER.5.09	
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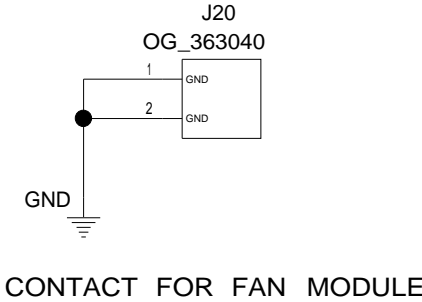
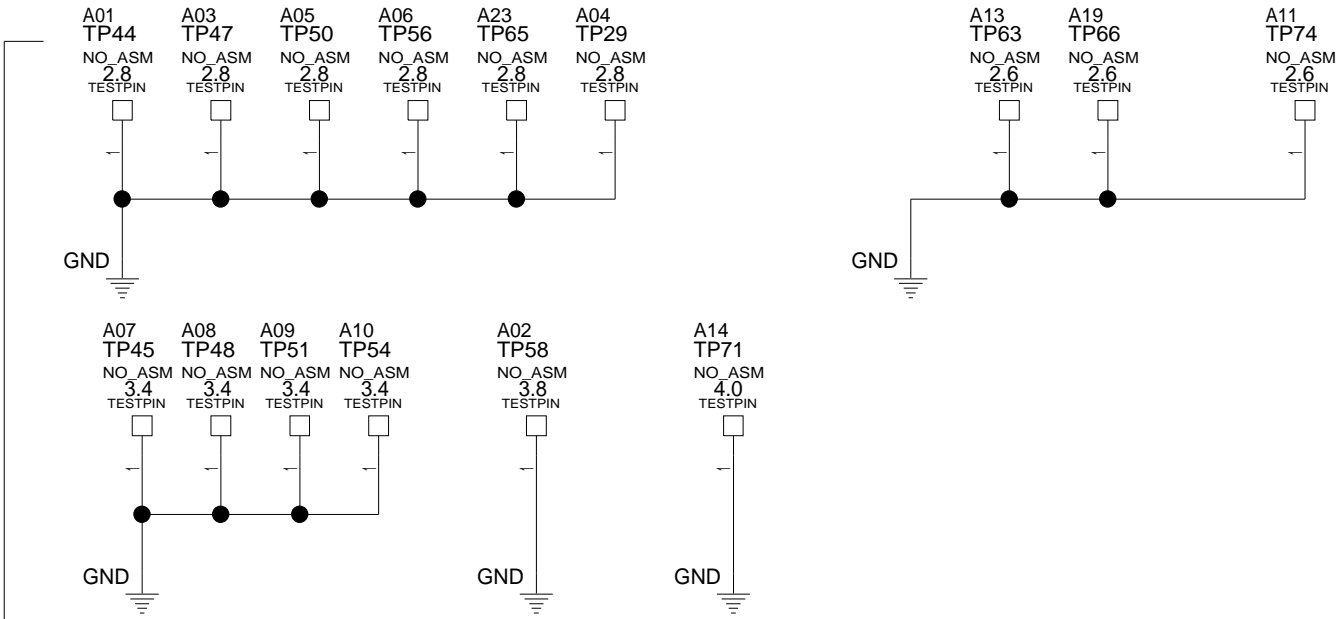
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			Q/M	
			101 / 101	

PTH FOR SCREW HOLE



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