

CORONADO-5 INT SVT LOGIC SCHEMATICS

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COR5I-6
VER 3.08
APR/01/2008

BASE LOGIC:COR-5 INT SIT
VER 2.37
FEB/14/2008

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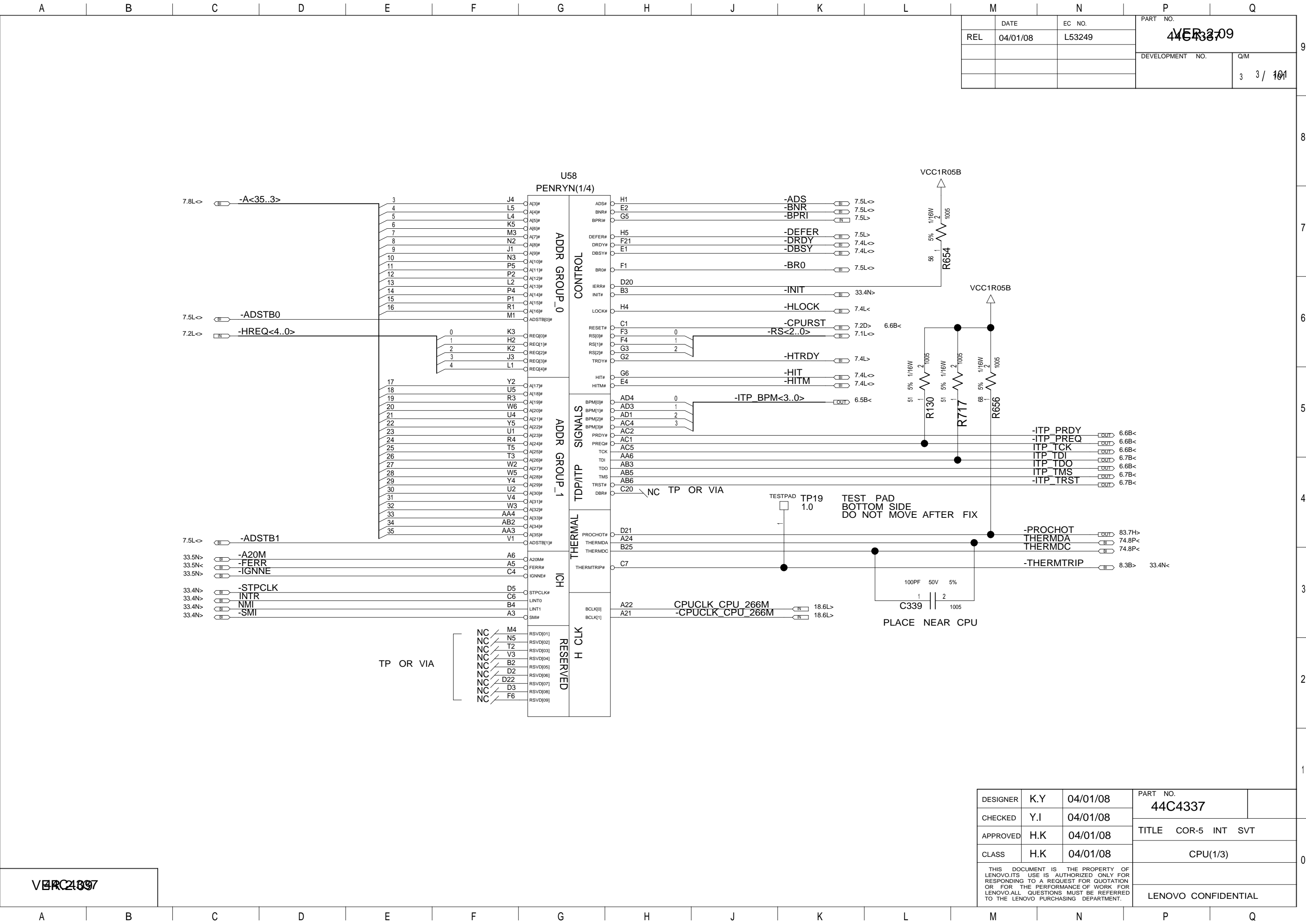
EMC DECOUPLING
101.

PTH FOR SCREW HOLES

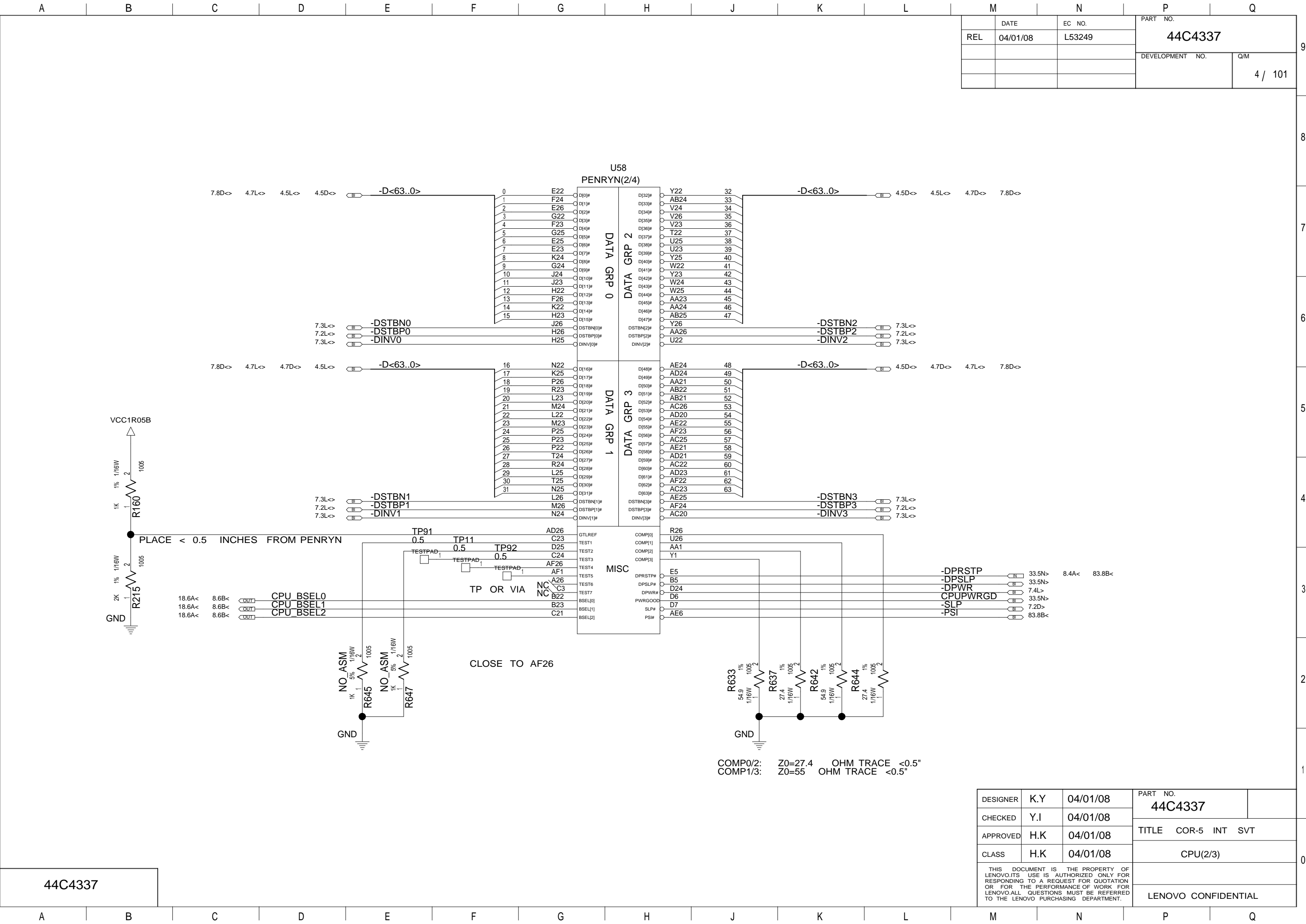
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44C4337

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CORONADO-5 SDV : BASE LOGIC COR-5 PDV VER.0.43 06/18/2007																
CORONADO-5 SDV : BASE LOGIC COR-5 SDV VER.1.17 07/17/2007																
CORONADO-5 SDV_I : BASE LOGIC COR-5 SDV VER.2.00 07/19/2007																
CORONADO-5 SIV_I : BASE LOGIC COR-5 SDV_I VER.0.31 09/07/2007																
CORONADO-5 SIT_I : BASE LOGIC COR-5 SIV_I VER.1.17 11/09/2007											CORONADO-5 SVT_I : BASE LOGIC COR-5 SIT_I VER.2.37 02/14/2008					
VER.2.00 11/12/2007 APPLIED SIT_EC001											VER.3.00 02/25/2008 APPLIED SVT_EC001					
VER.2.01 11/14/2007 APPLIED SIV_EC524,525,527											VER.3.01 02/26/2008 APPLIED SVT_EC002-005					
VER.2.02 11/15/2007 APPLIED SIV_EC528-530,SIT_EC002											VER.3.02 02/28/2008 APPLIED SVT_EC006					
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VER.2.04 11/21/2007 APPLIED SIV_EC538-541											VER.3.04 03/04/2008 APPLIED SVT_EC010,011					
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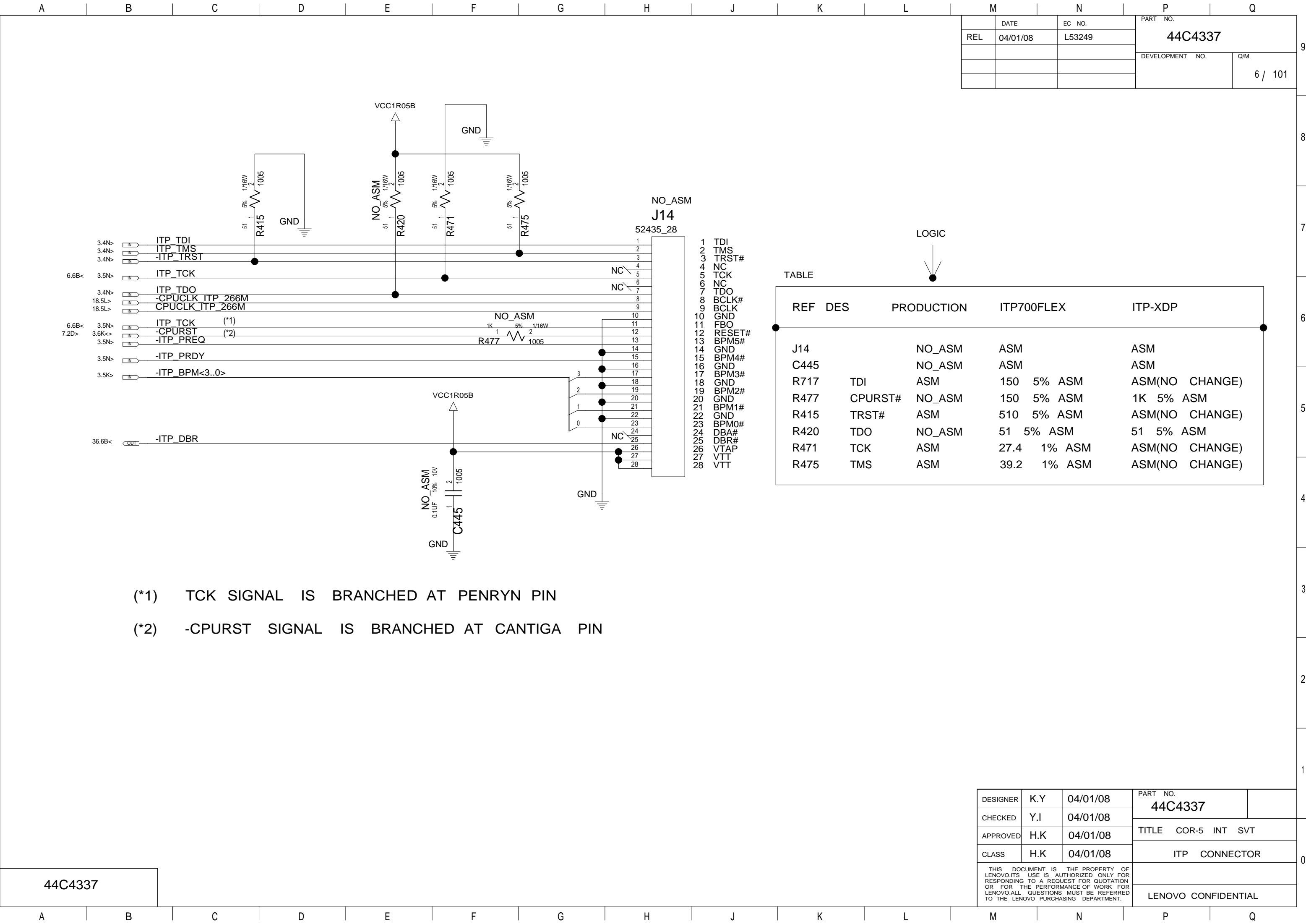
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CLASS	H.K	04/01/08	CPU(1/3)	
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(*1) TCK SIGNAL IS BRANCHED AT PENRYN PIN

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

		PART NO.	
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DEVELOPMENT NO.		Q/M	
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LOGIC

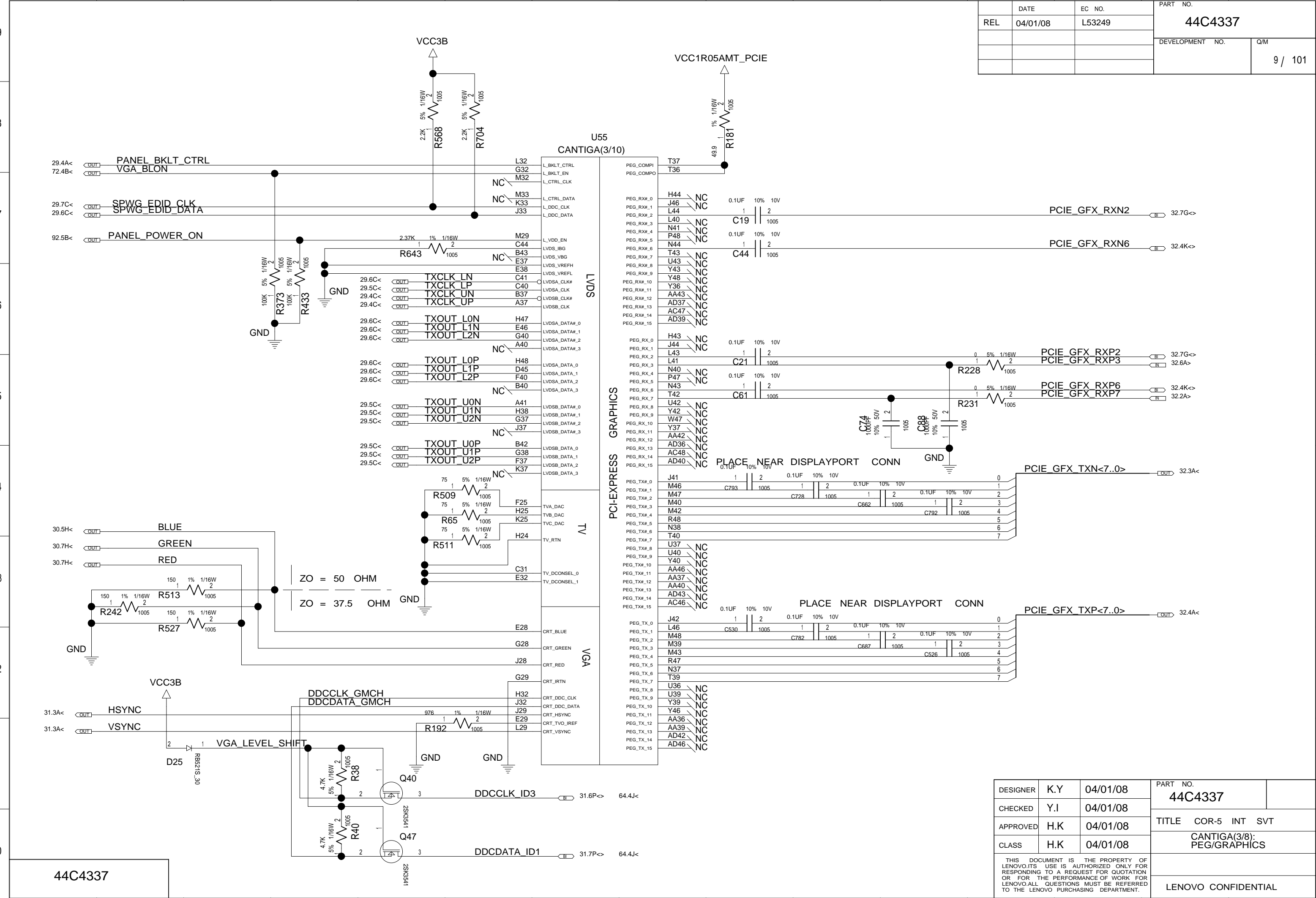
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REF	DES	PRODUCTION	ITP700FLEX			ITP-XDP
J14		NO_ASM	ASM			ASM
C445		NO_ASM	ASM			ASM
R717	TDI	ASM	150	5%	ASM	ASM(NO CHANGE)
R477	CPURST#	NO_ASM	150	5%	ASM	1K 5% ASM
R415	TRST#	ASM	510	5%	ASM	ASM(NO CHANGE)
R420	TDO	NO_ASM	51	5%	ASM	51 5% ASM
R471	TCK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

44C4337

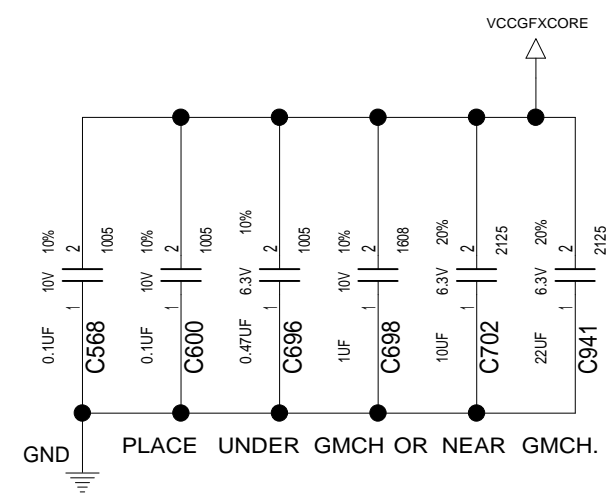
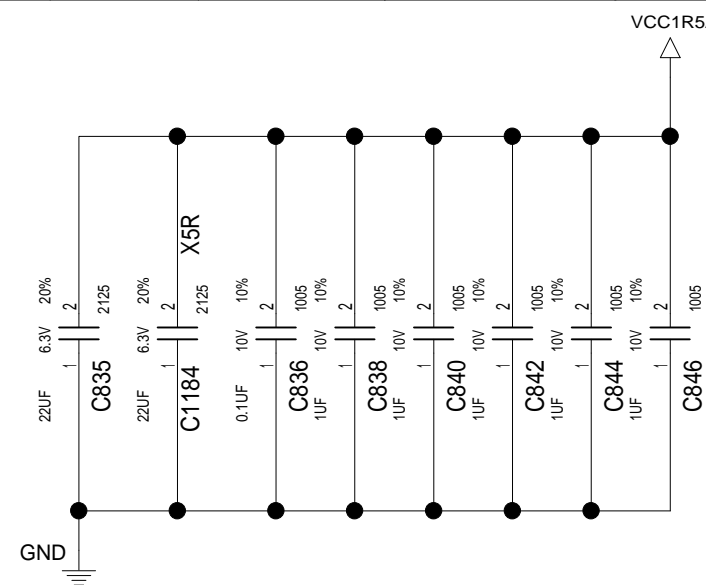
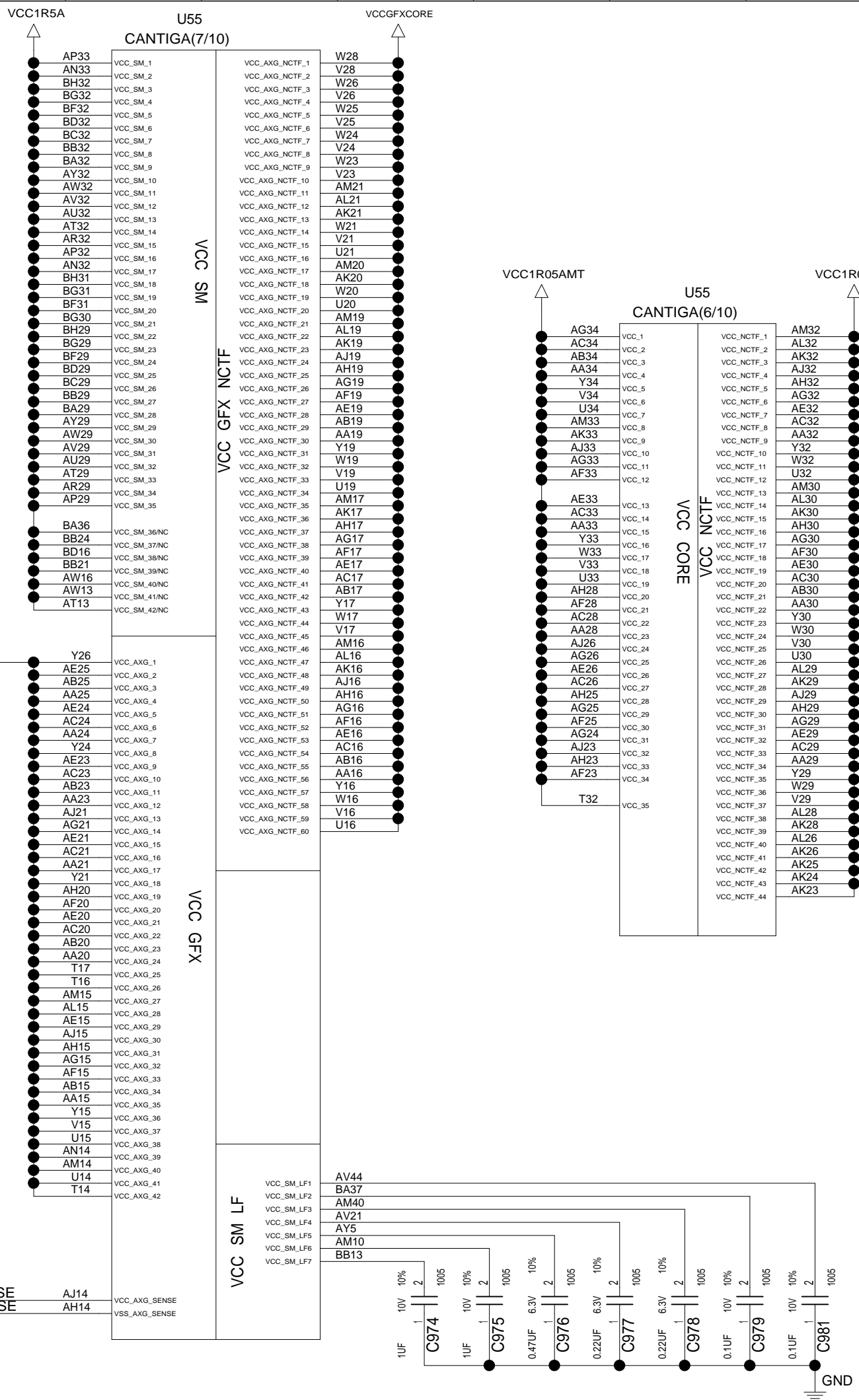
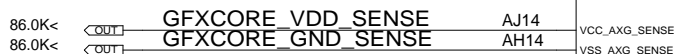
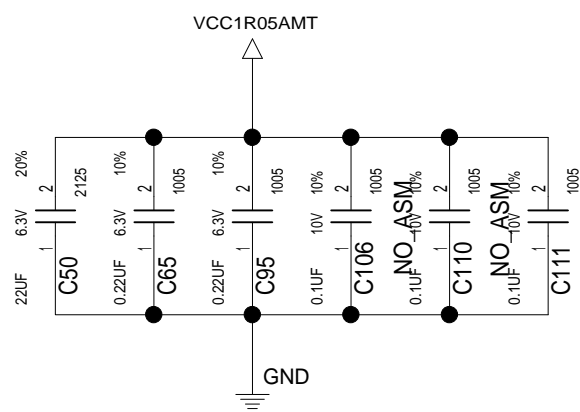
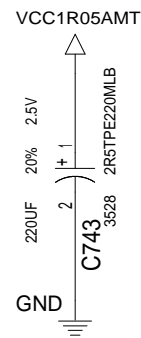
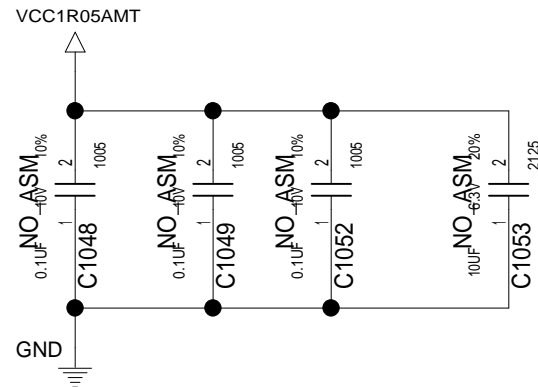
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CLASS	H.K	04/01/08	ITP CONNECTOR	
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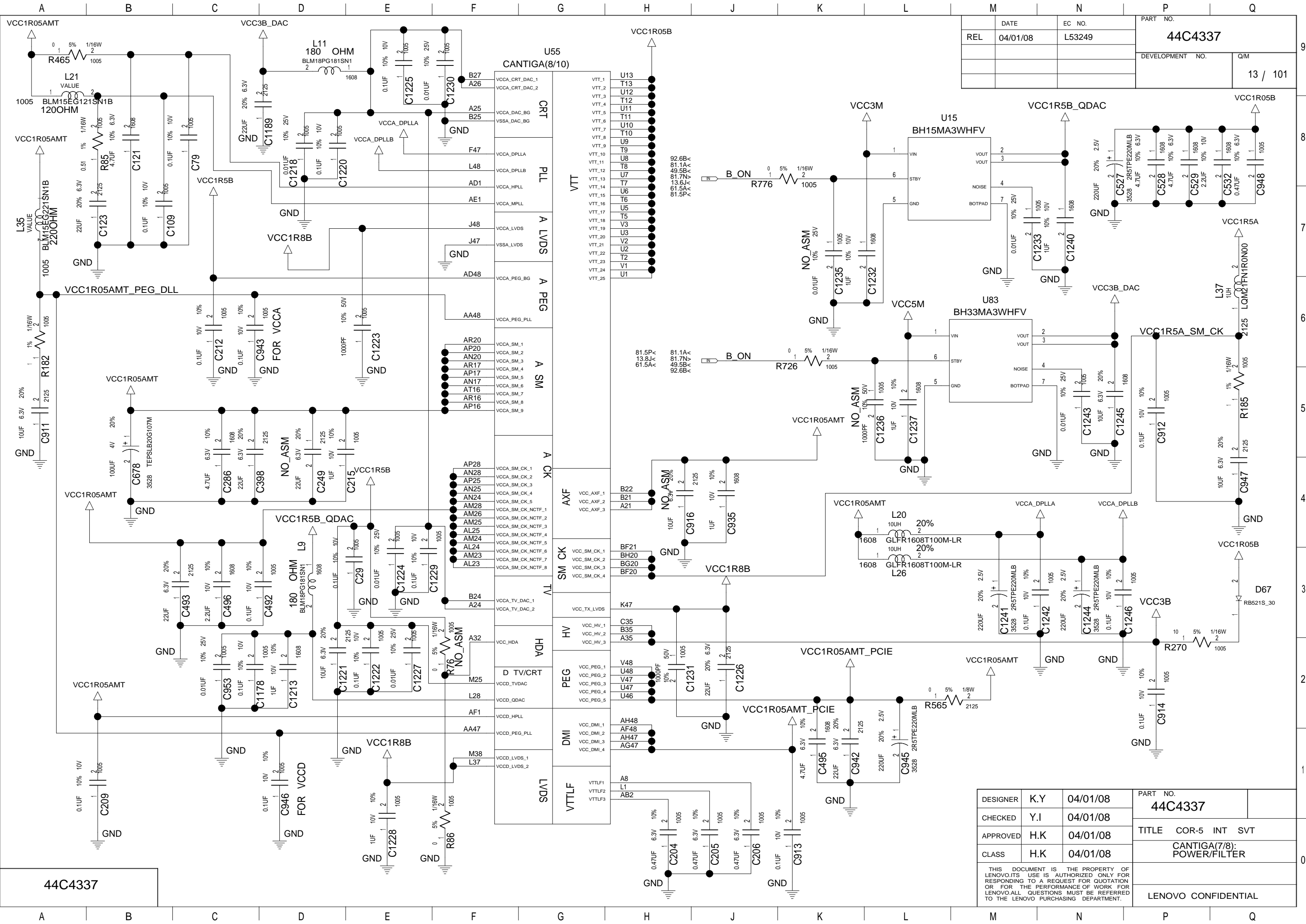


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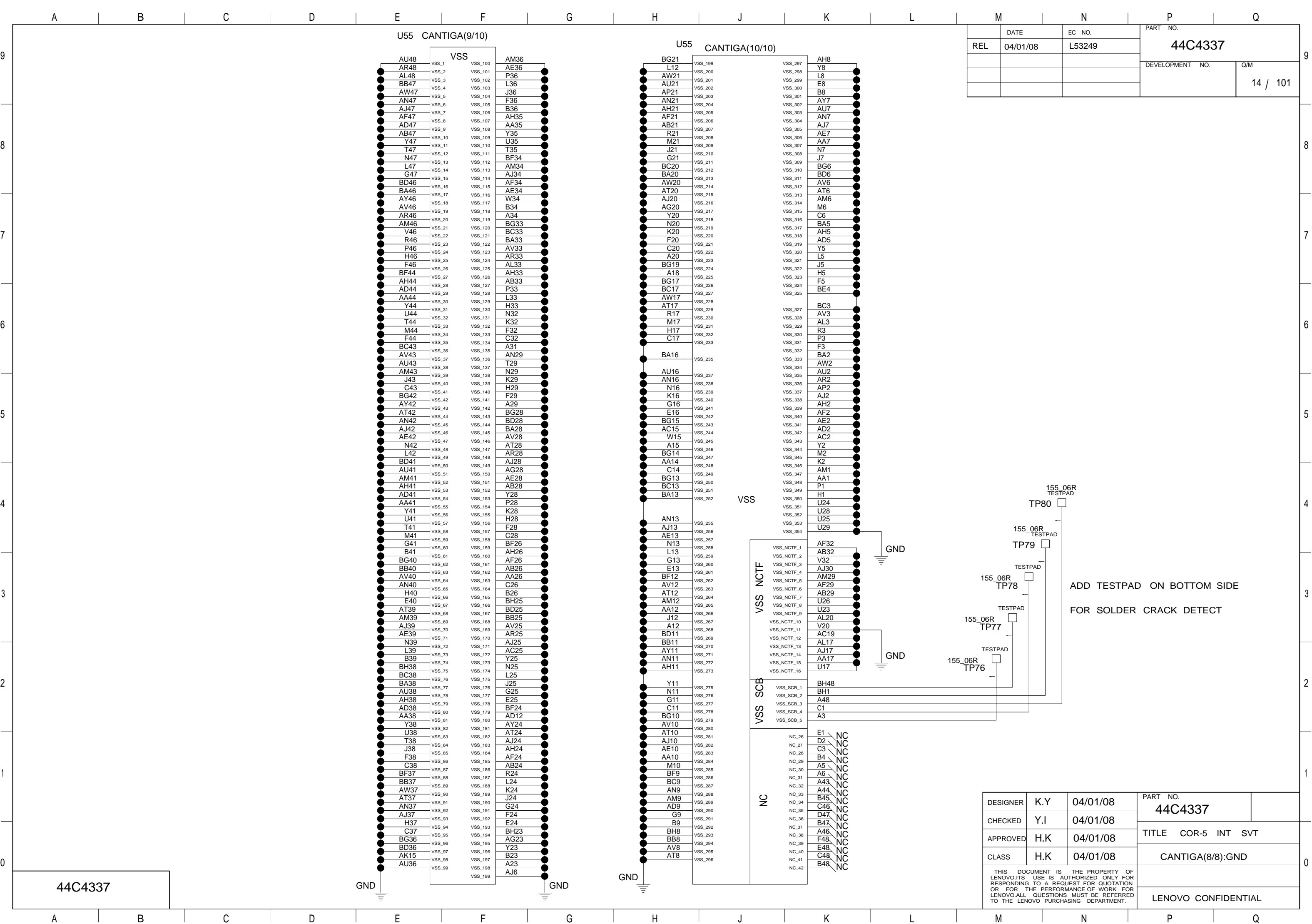


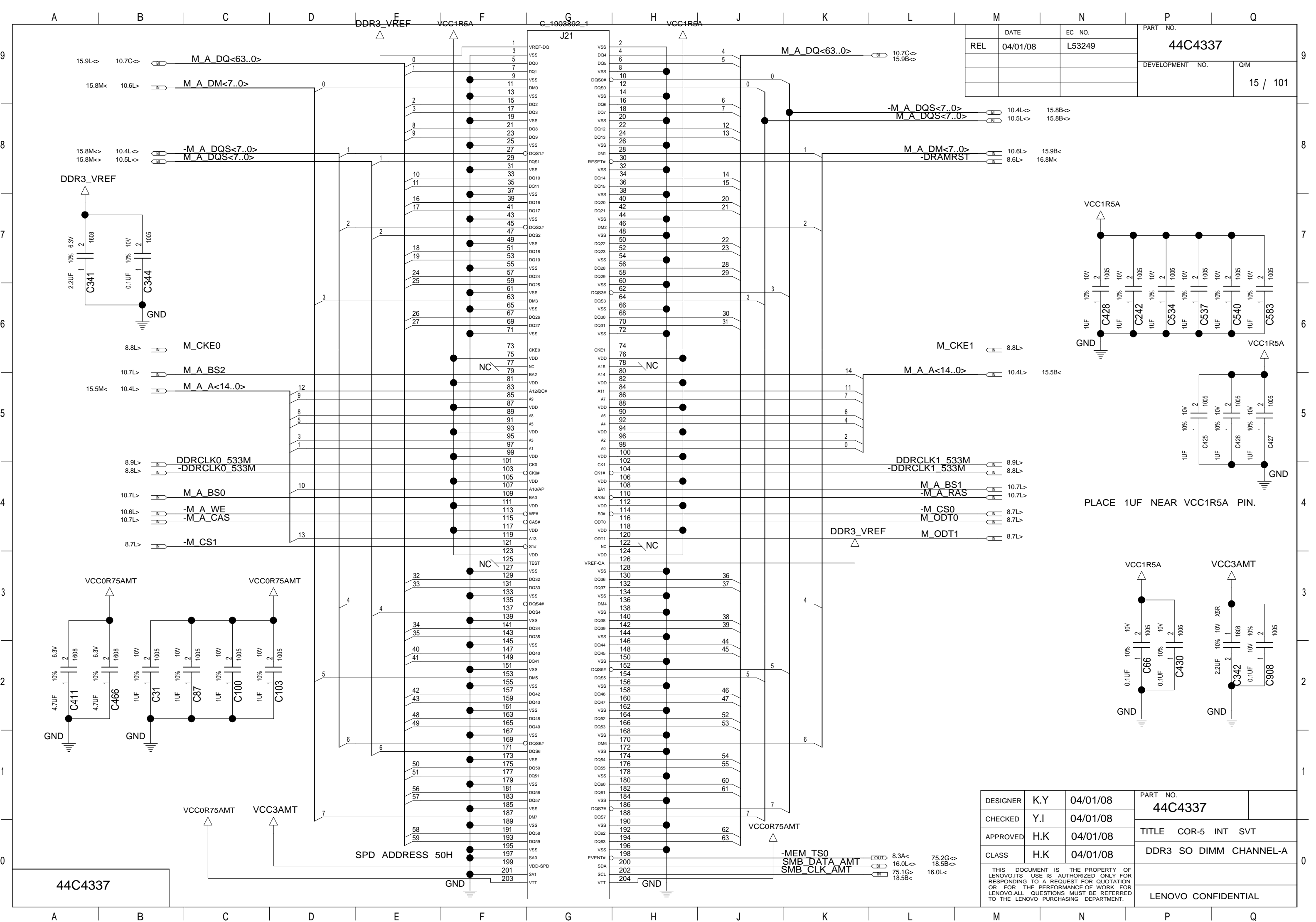
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CLASS	H.K	04/01/08	CANTIGA(6/8):POWER	
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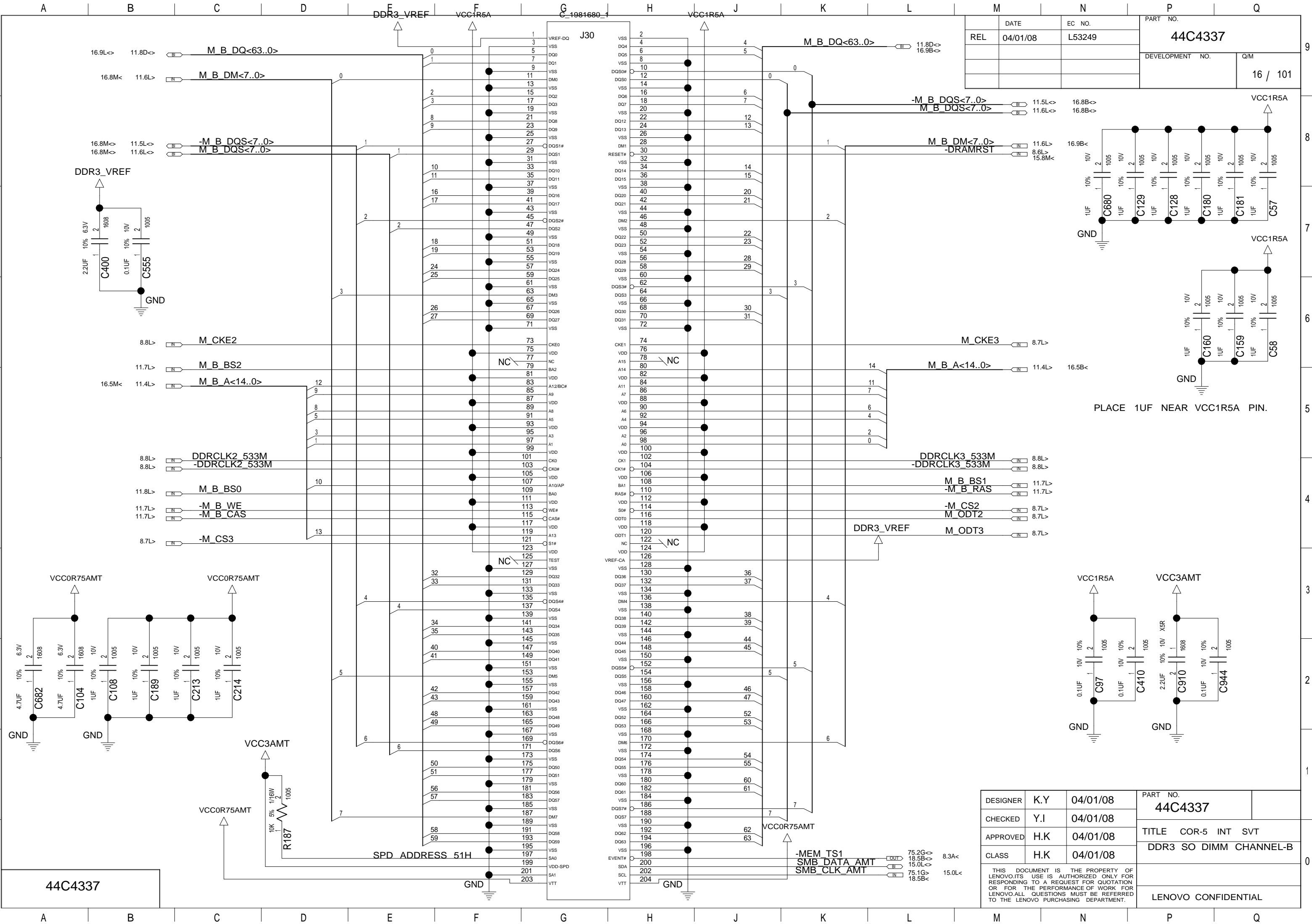


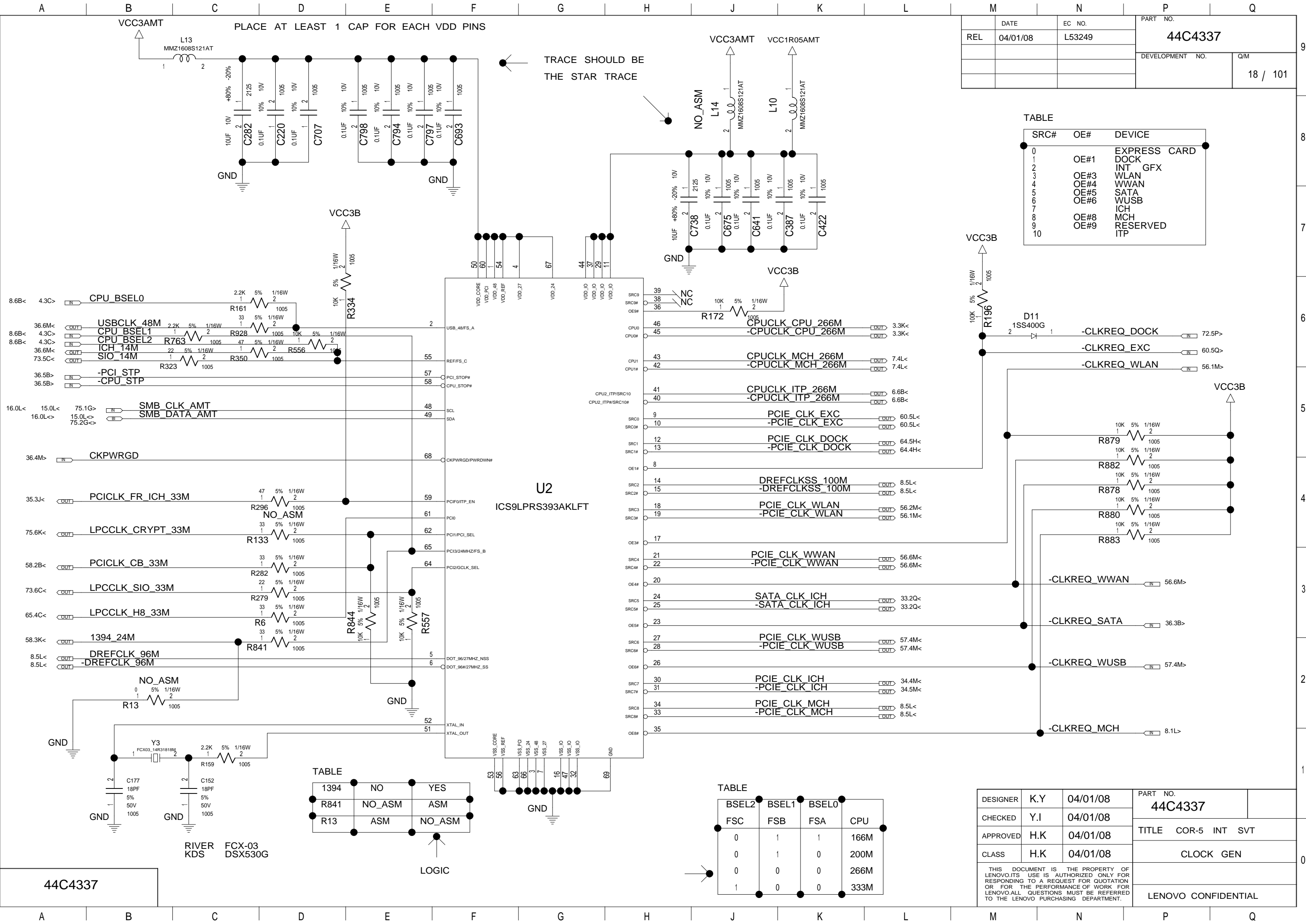
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APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	CANTIGA(7/8): POWER/FILTER	
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	DATE	EC NO.	PART NO.	
REL	04/01/08	L53249	44C4337	
			DEVELOPMENT NO.	Q/M
				18 / 101

TABLE

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2		INT GFX
3	OE#3	WLAN
4	OE#4	WWAN
5	OE#5	SATA
6	OE#6	WUSB
7		ICH
8	OE#8	MCH
9	OE#9	RESERVED
10		ITP

DESIGNER	K.Y	04/01/08	PART NO.	
CHECKED	Y.I	04/01/08	44C4337	
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CLASS	H.K	04/01/08	CLOCK GEN	
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			LENOVO CONFIDENTIAL		

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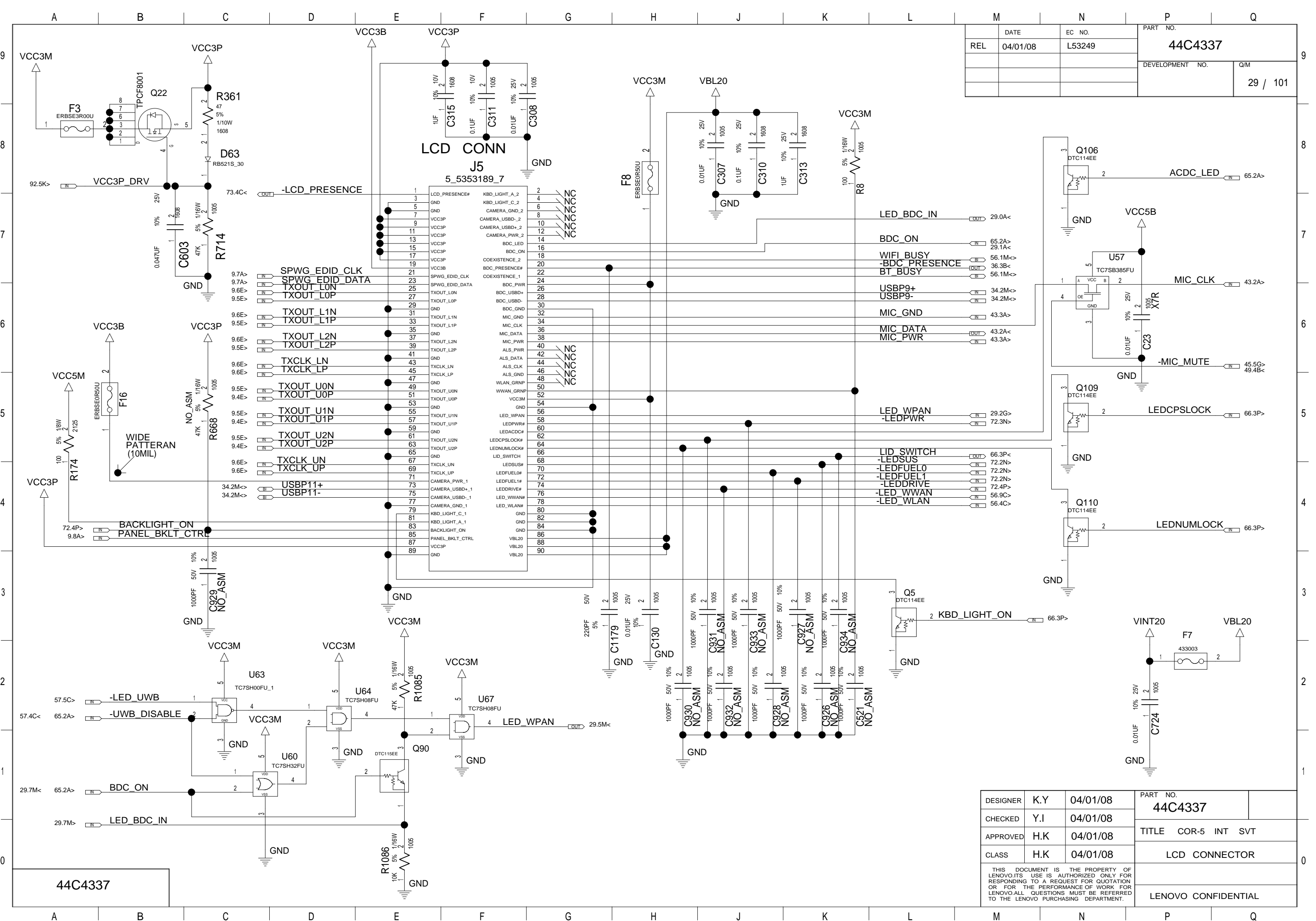
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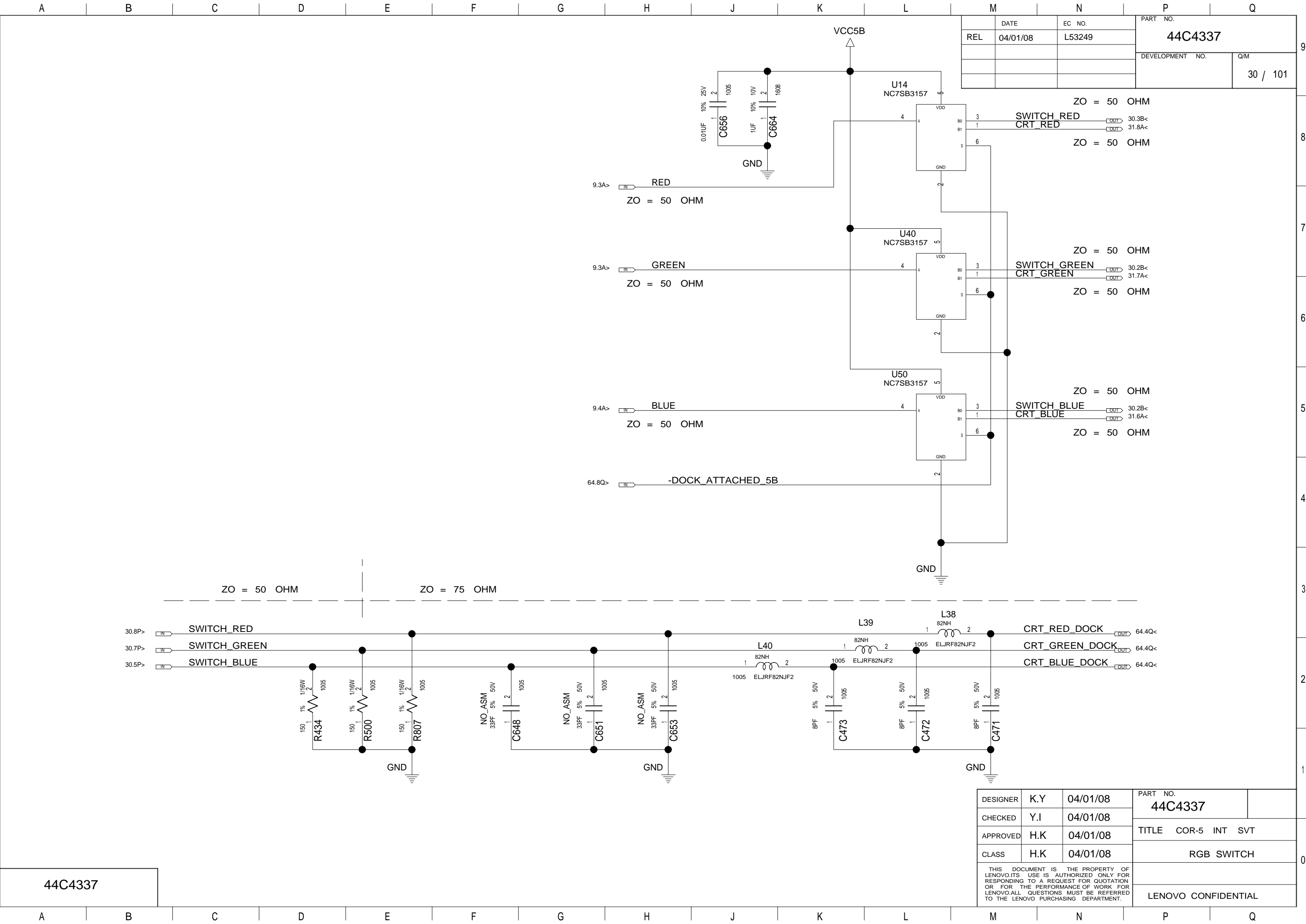
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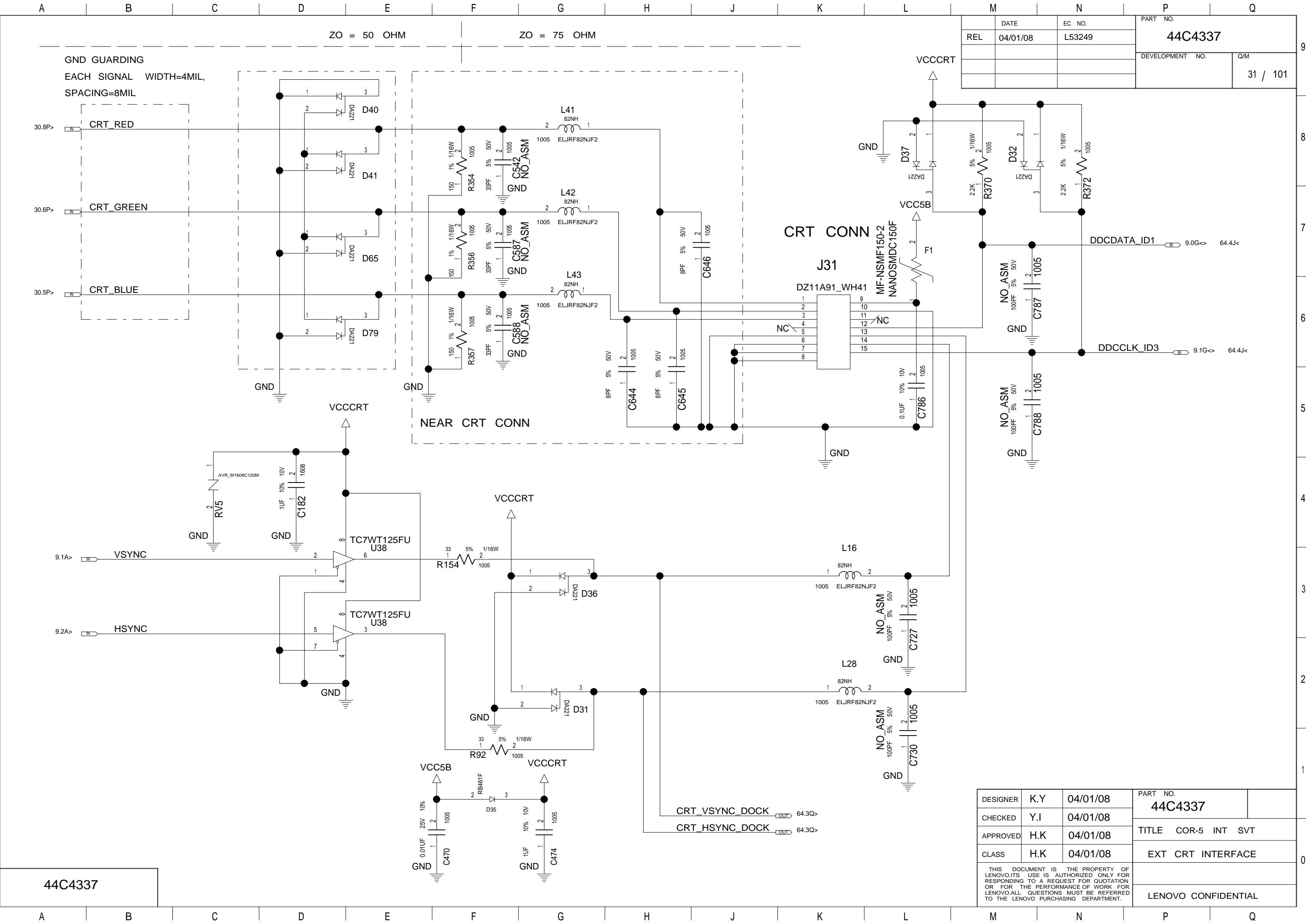
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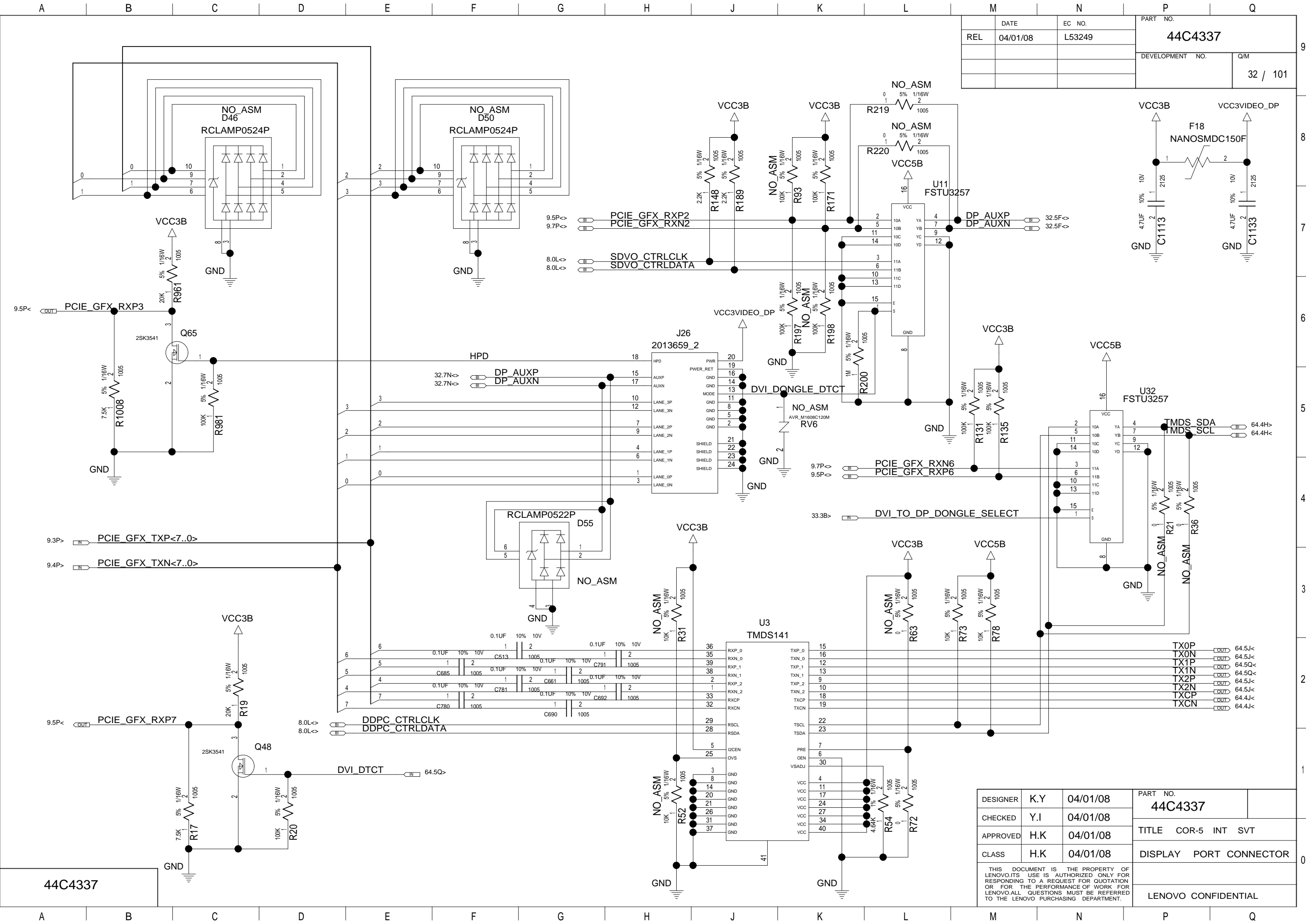
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			LENOVO CONFIDENTIAL	



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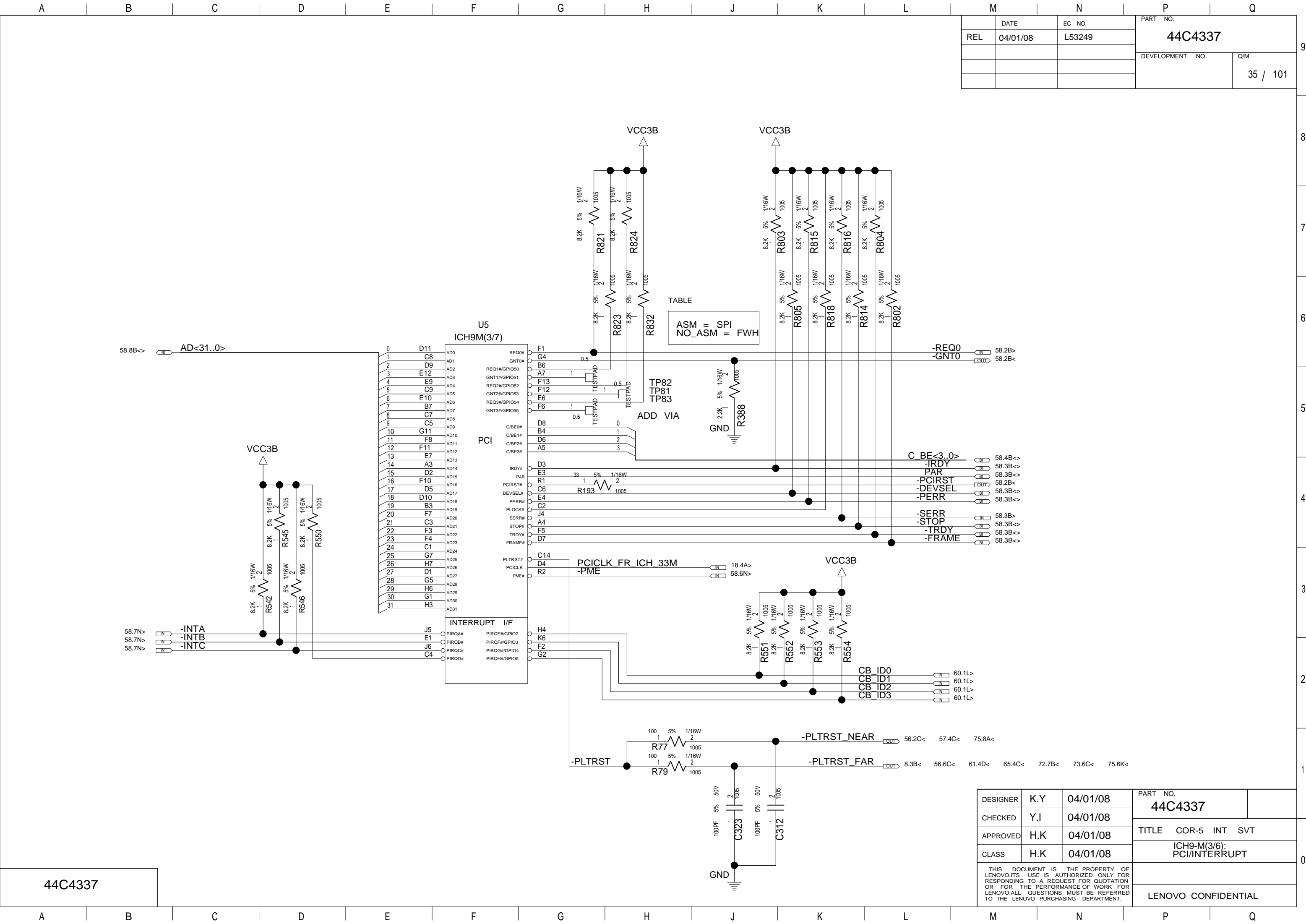
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			LENOVO CONFIDENTIAL	



	DATE	EC NO.	PART NO.	
REL	04/01/08	L53249	44C4337	
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DESIGNER	K.Y	04/01/08	PART NO.	
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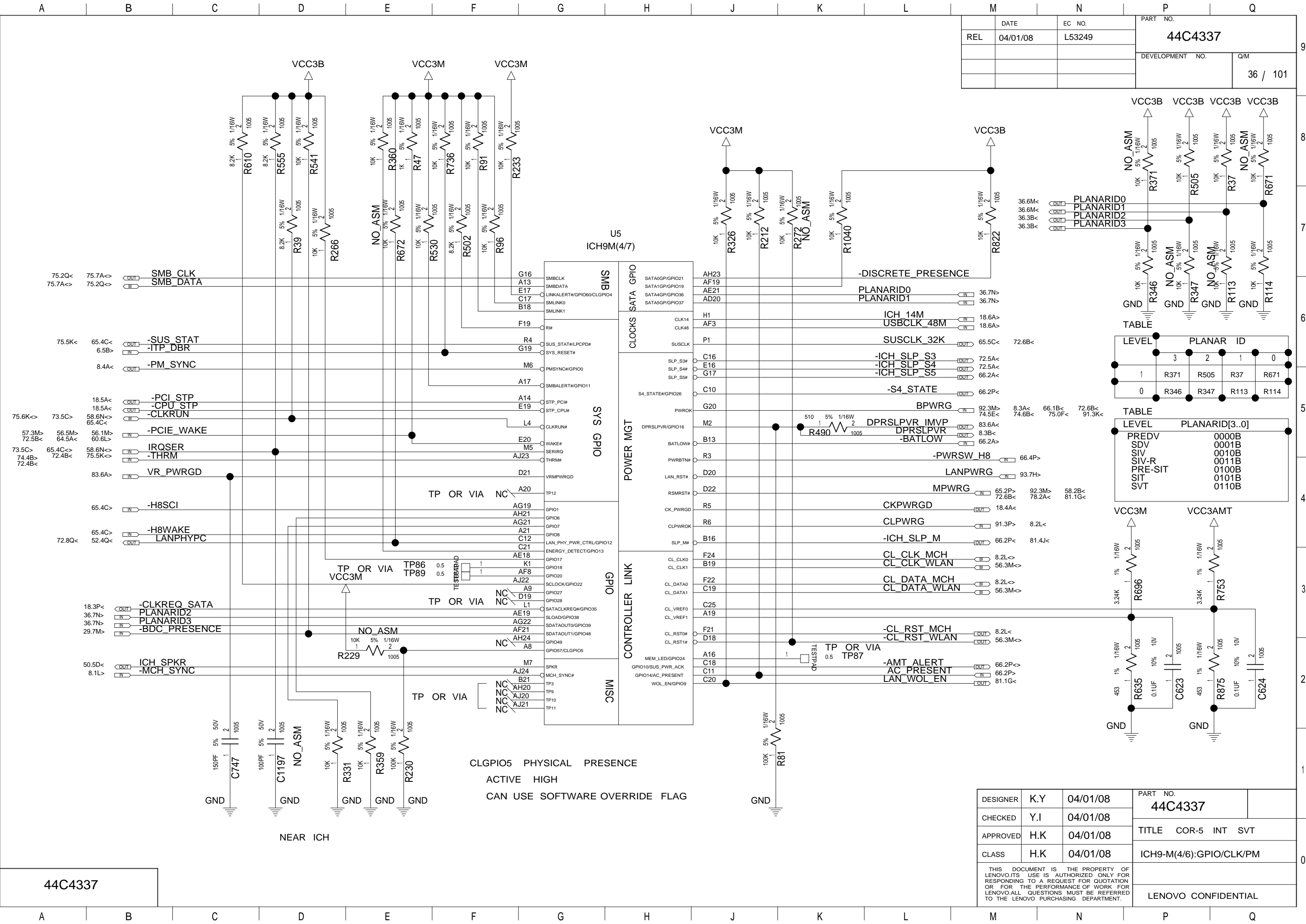




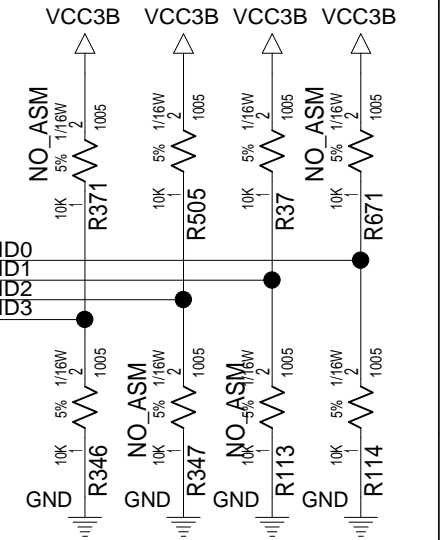
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			36 / 101	

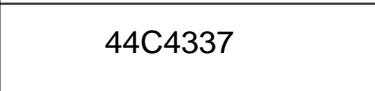


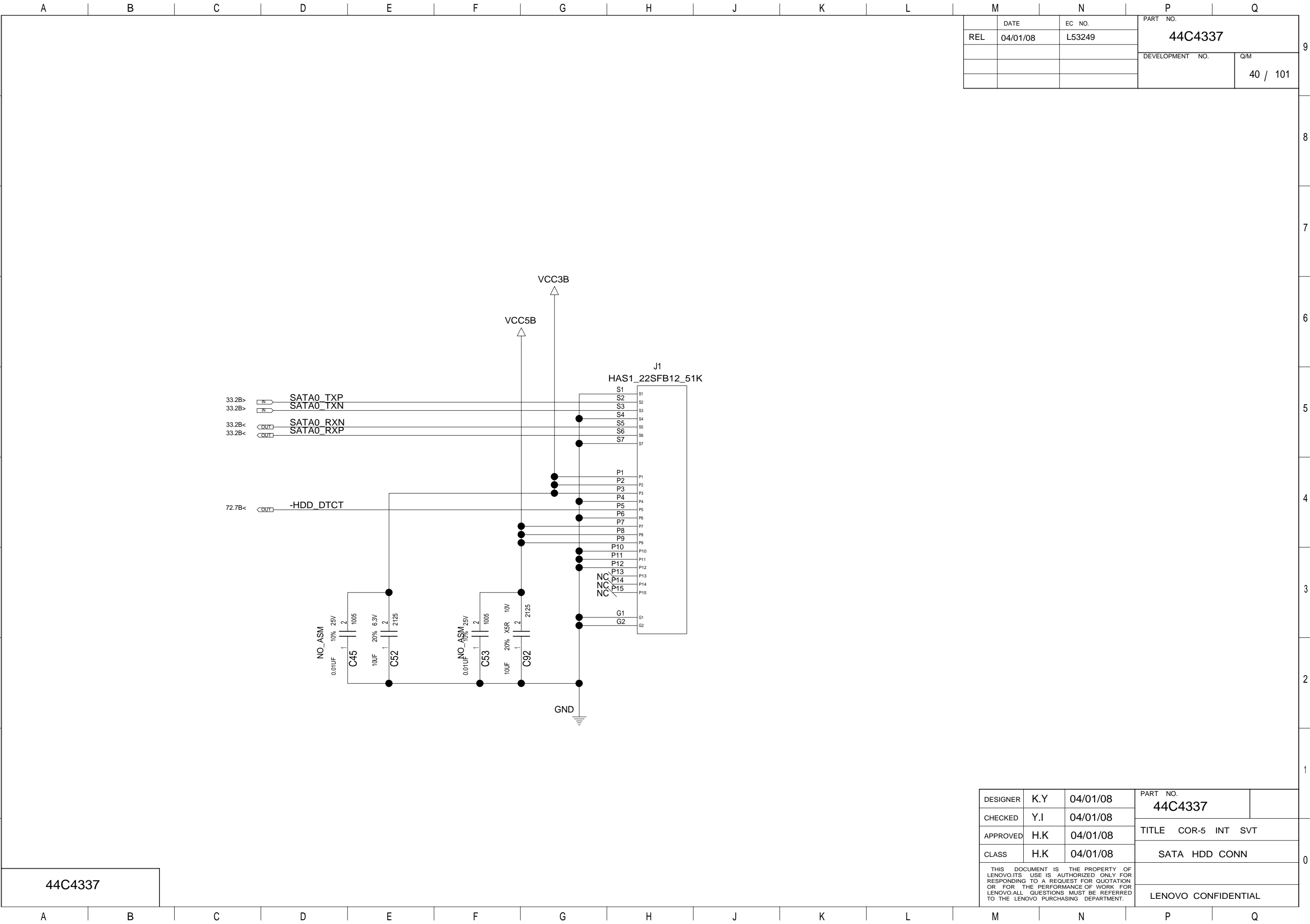
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1	0
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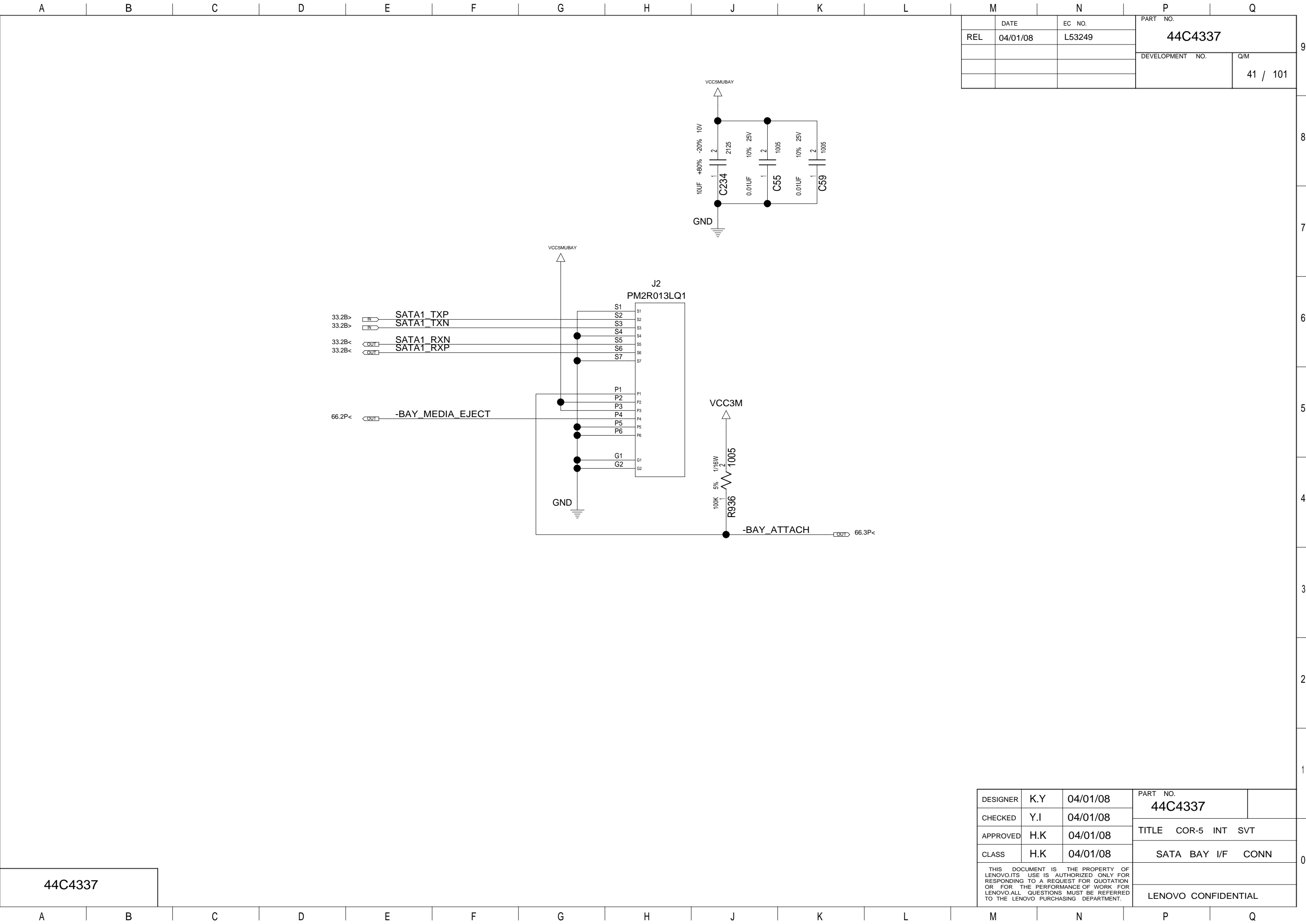
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SDV	0001B
SIV	0010B
SIV-R	0011B
PRE-SIT	0100B
SIT	0101B
SVT	0110B

DESIGNER	K.Y	04/01/08	PART NO.	
CHECKED	Y.I	04/01/08	44C4337	
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	ICH9-M(4/6):GPIO/CLK/PM	
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44C4337



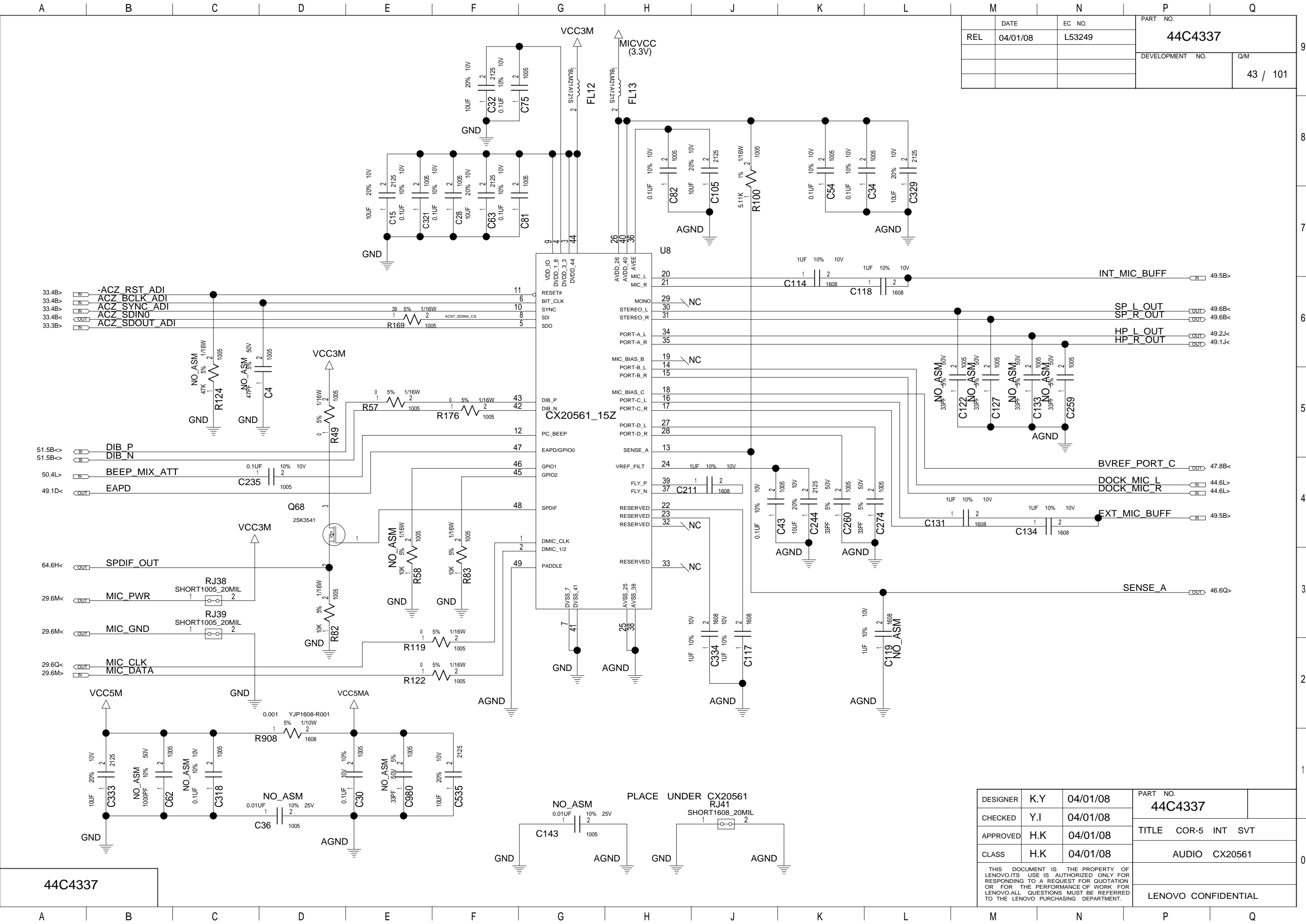




M		N		P		Q	
DATE		EC NO.		PART NO. 44C4337			
REL	04/01/08	L53249					
				DEVELOPMENT NO.		Q/M	
						41 / 101	

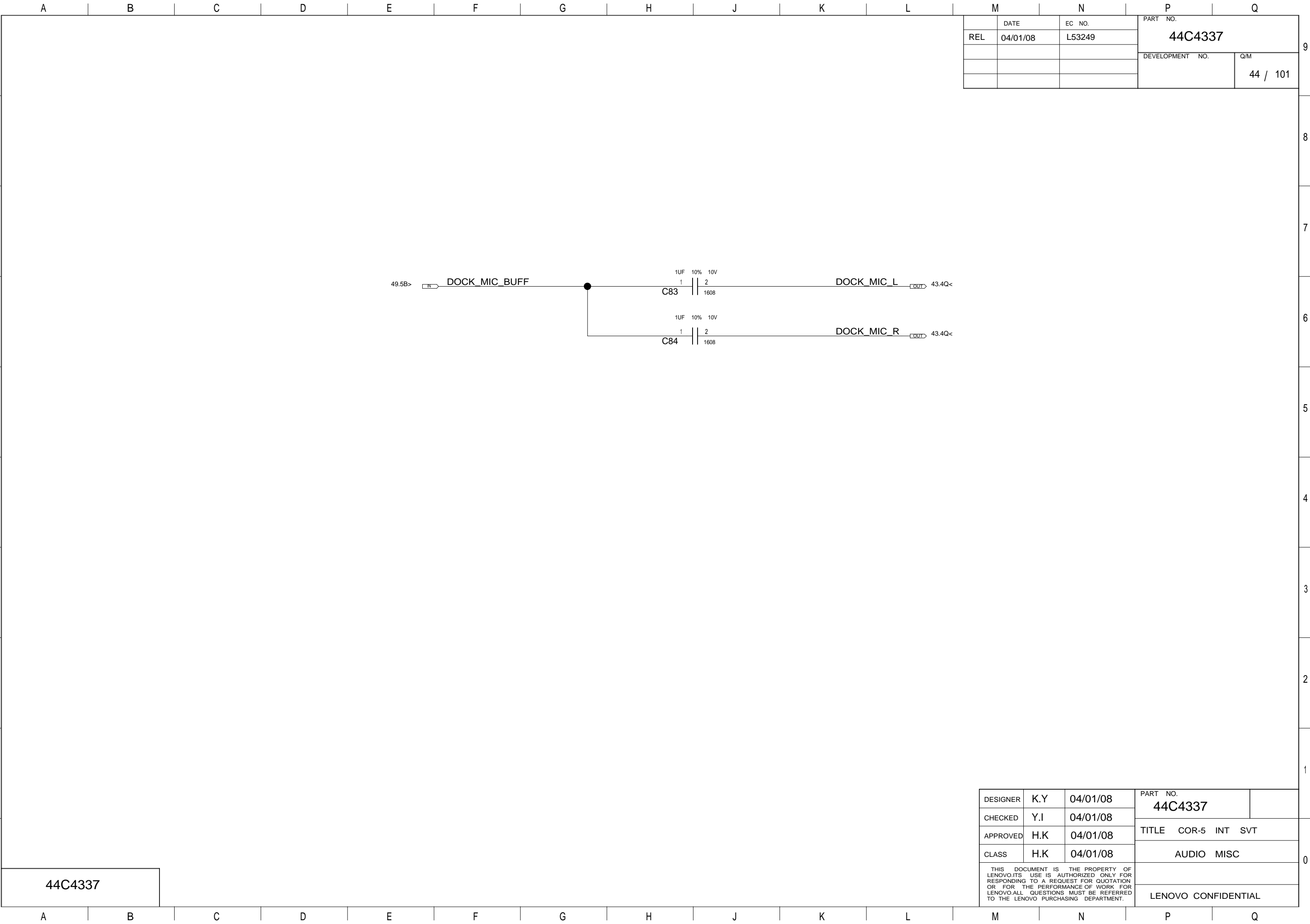
44C4337

DESIGNER	K.Y	04/01/08	PART NO.		
CHECKED	Y.I	04/01/08	44C4337		
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT		
CLASS	H.K	04/01/08	SATA BAY I/F CONN		
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			LENOVO CONFIDENTIAL		



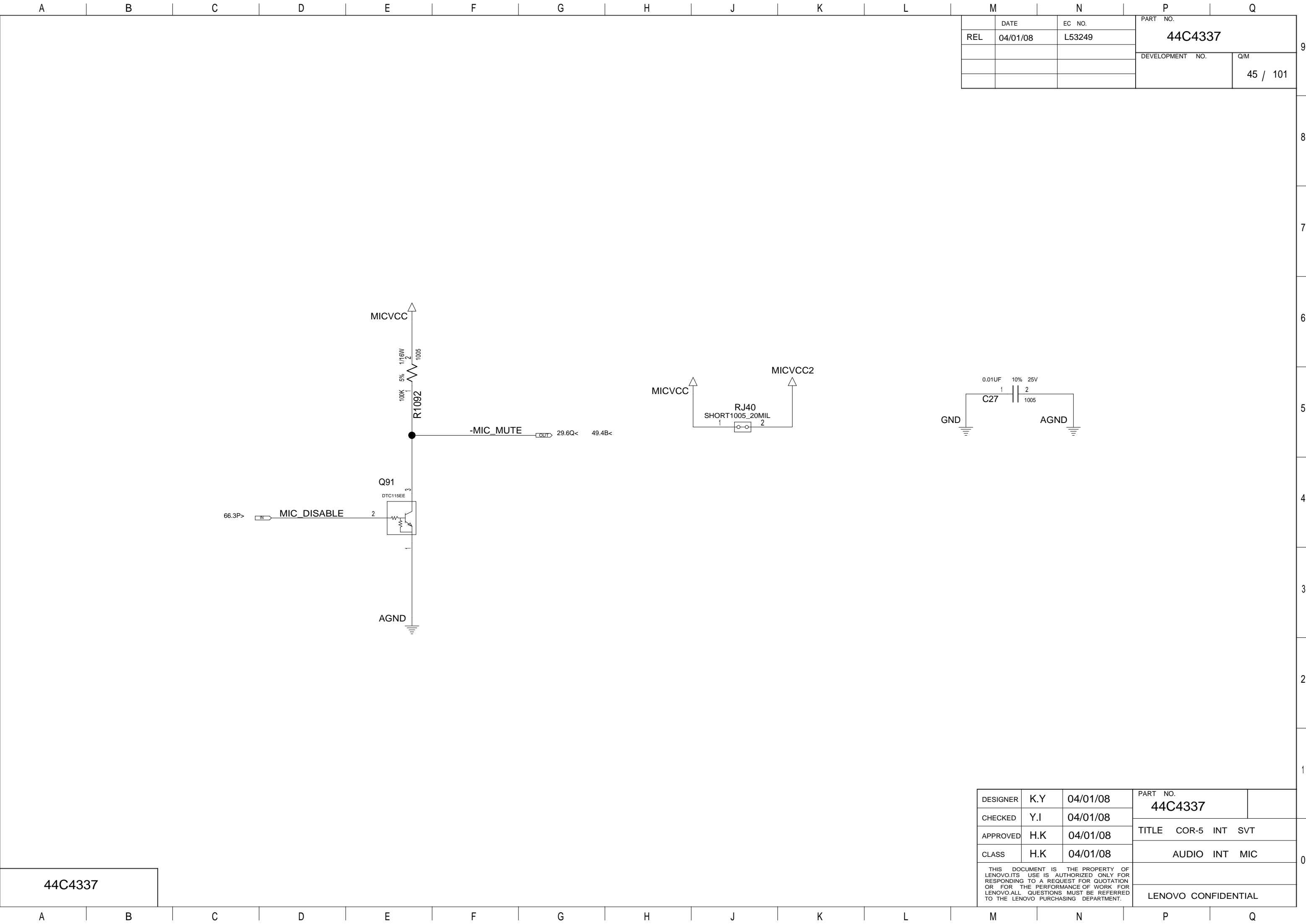
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REL	04/01/08	L53249		
			DEVELOPMENT NO.	
			Q/M	
			43 / 101	

DESIGNER	K.Y	04/01/08	PART NO.	
CHECKED	Y.I	04/01/08		
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	AUDIO CX20561	
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			LENOVO CONFIDENTIAL	



44C4337

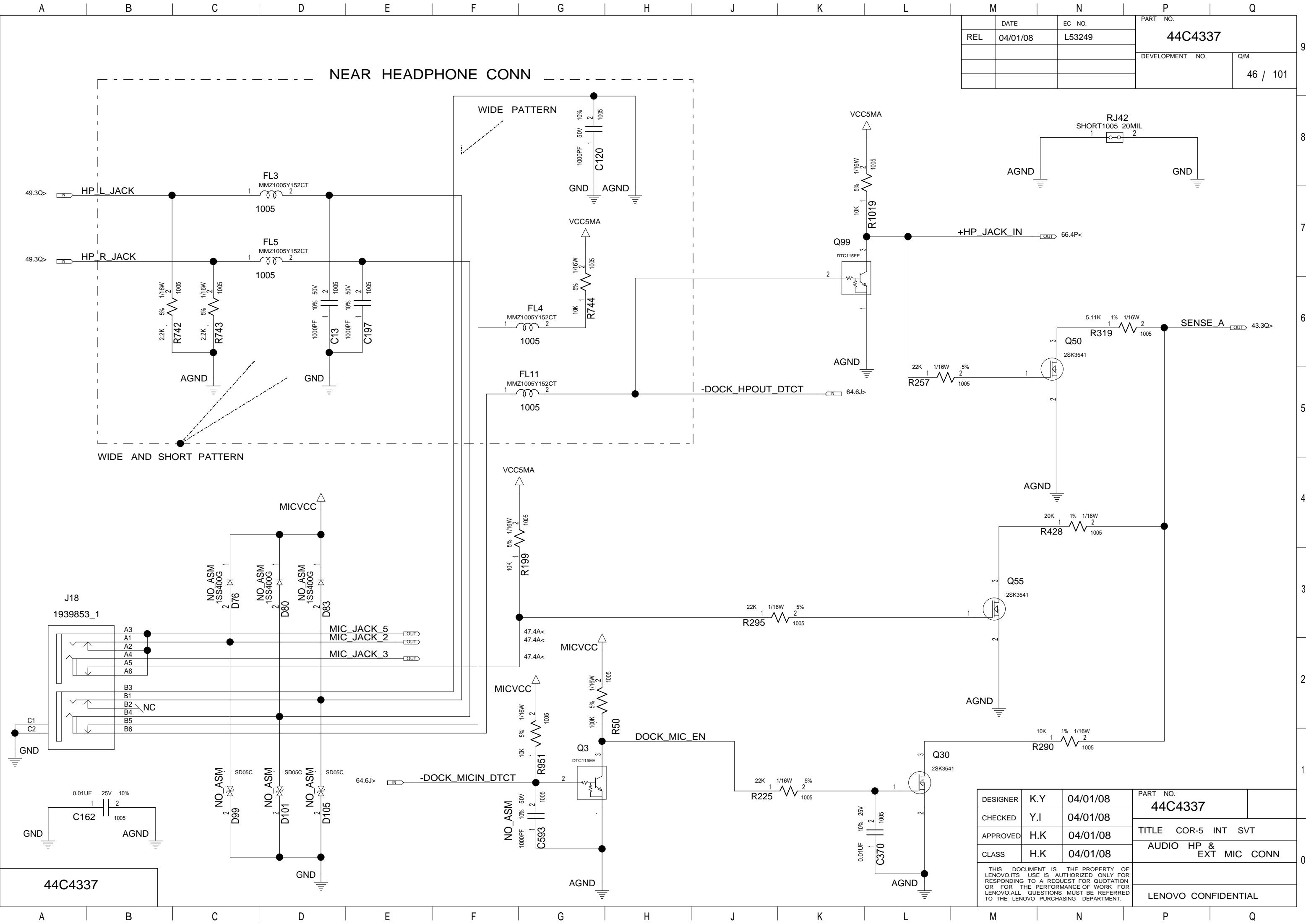
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CHECKED	Y.I	04/01/08	44C4337	
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	AUDIO MISC	
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REL	04/01/08		L53249				
					DEVELOPMENT NO.		Q/M 45 / 101

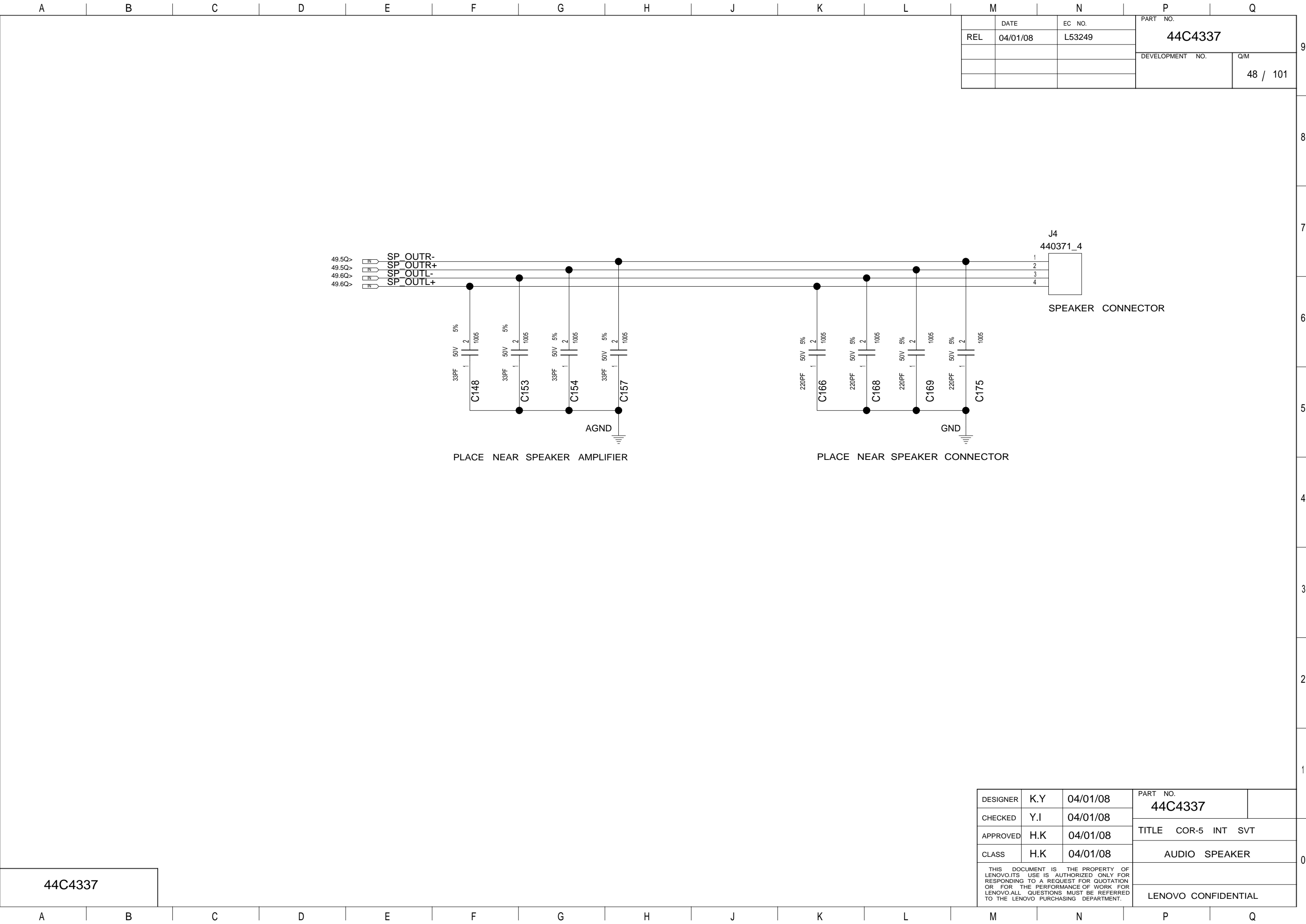
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CHECKED	Y.I	04/01/08		
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	AUDIO INT MIC	
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44C4337



DATE		EC NO.	PART NO. 44C4337	
REL	04/01/08	L53249		
			DEVELOPMENT NO.	
			Q/M	
			46 / 101	

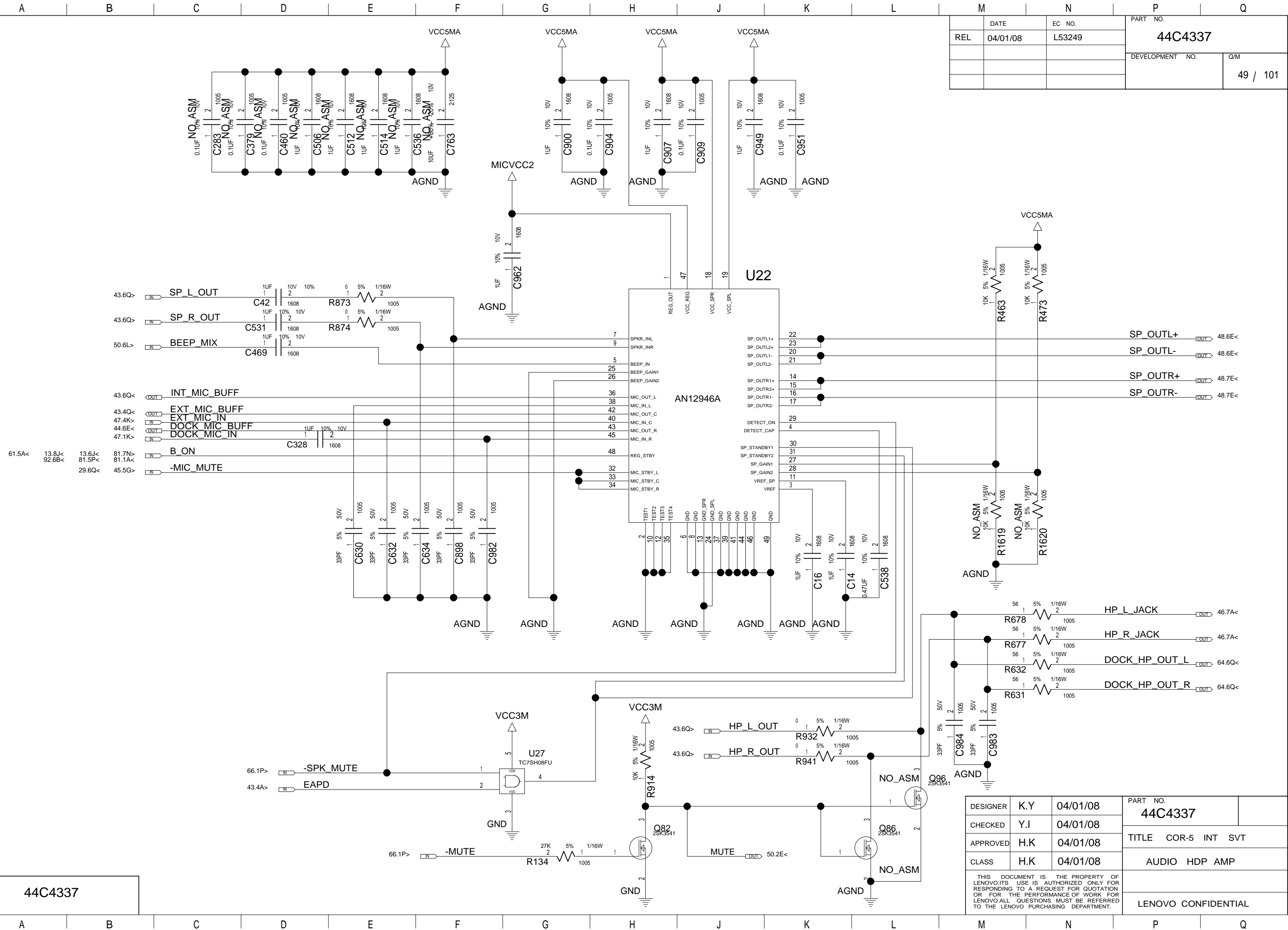
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CHECKED	Y.I	04/01/08	44C4337	
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	AUDIO HP & EXT MIC CONN	
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			LENOVO CONFIDENTIAL	

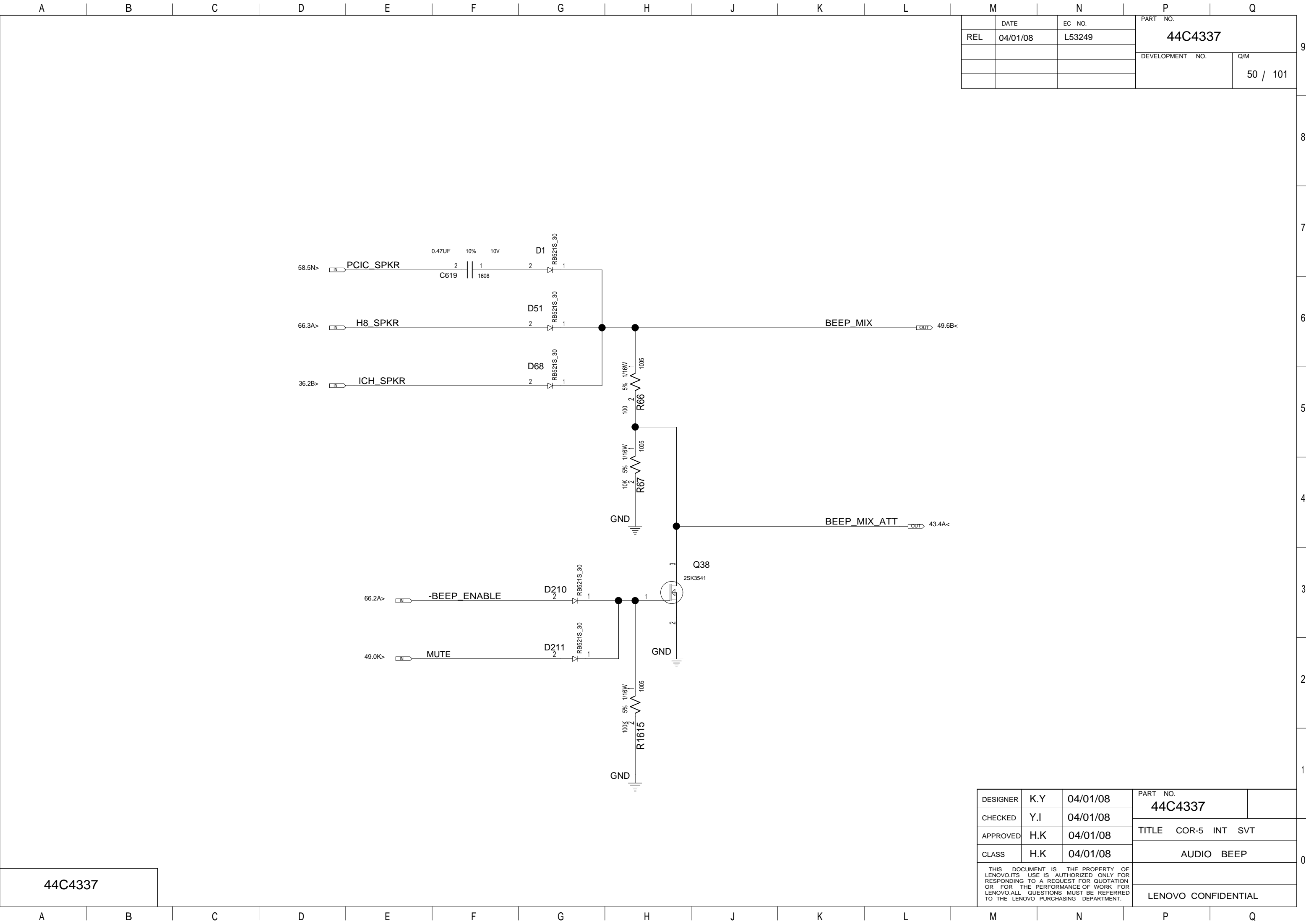


		PART NO.	
REL		44C4337	
DATE		L53249	
EC NO.		DEVELOPMENT NO.	
		Q/M	
		48 / 101	

44C4337

DESIGNER	K.Y	04/01/08	PART NO. 44C4337	
CHECKED	Y.I	04/01/08		
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	AUDIO SPEAKER	
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			LENOVO CONFIDENTIAL	

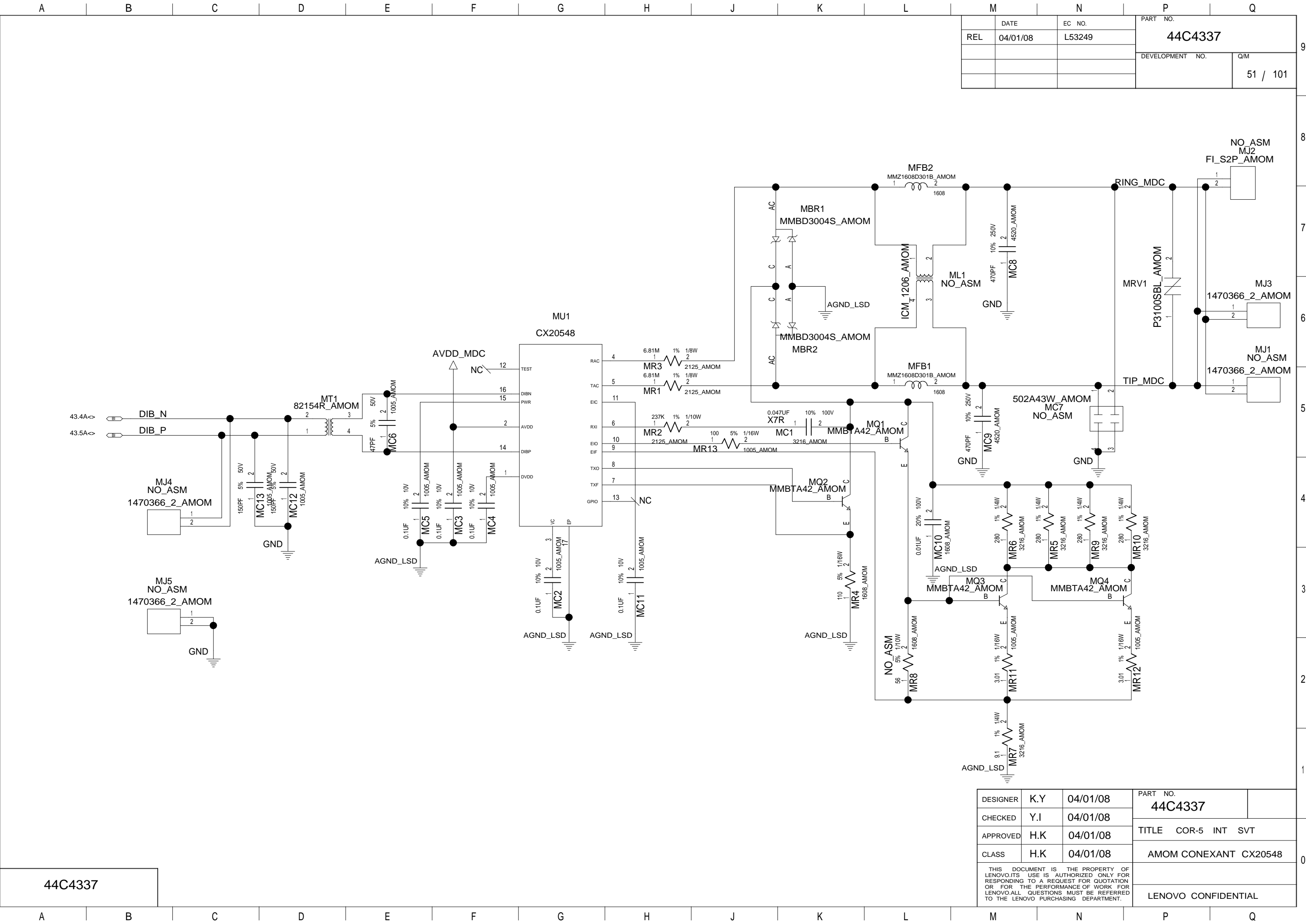




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		DATE		EC NO.		PART NO.			
REL		04/01/08		L53249		44C4337			
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								50 / 101	

44C4337

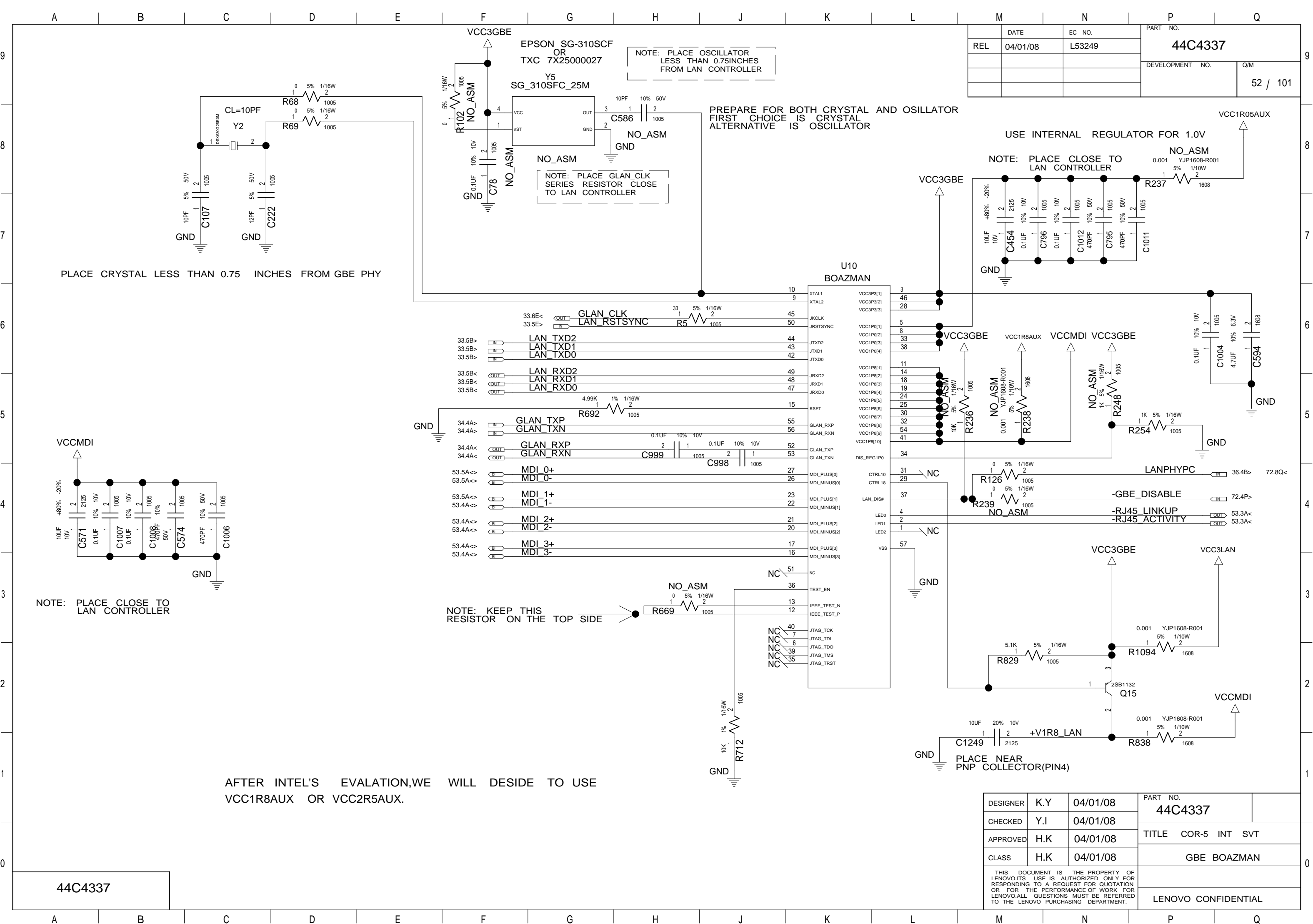
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APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT		
CLASS	H.K	04/01/08	AUDIO BEEP		
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			LENOVO CONFIDENTIAL		

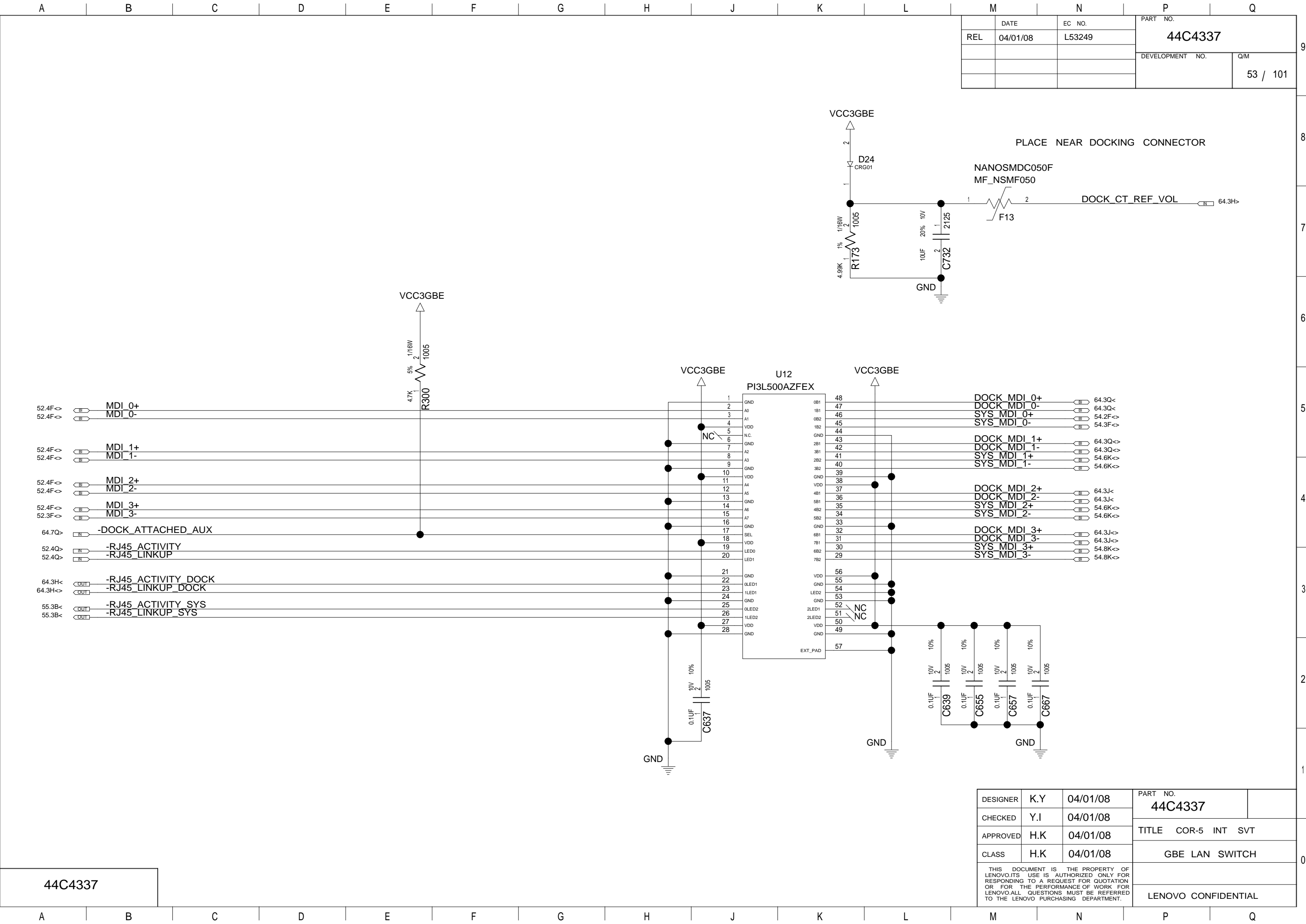


DATE		EC NO.	PART NO. 44C4337	
REL		L53249		
			DEVELOPMENT NO.	Q/M
				51 / 101

44C4337

DESIGNER	K.Y	04/01/08	PART NO. 44C4337	
CHECKED	Y.I	04/01/08		
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	AMOM CONEXANT CX20548	
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		PART NO.	
REL		44C4337	
DATE		L53249	
EC NO.			
DEVELOPMENT NO.		Q/M	
		53 / 101	

PLACE NEAR DOCKING CONNECTOR

NANOSMDC050F
MF_NSMF050

DOCK_CT_REF_VOL

64.3H>

U12
PI3L500AZFEX

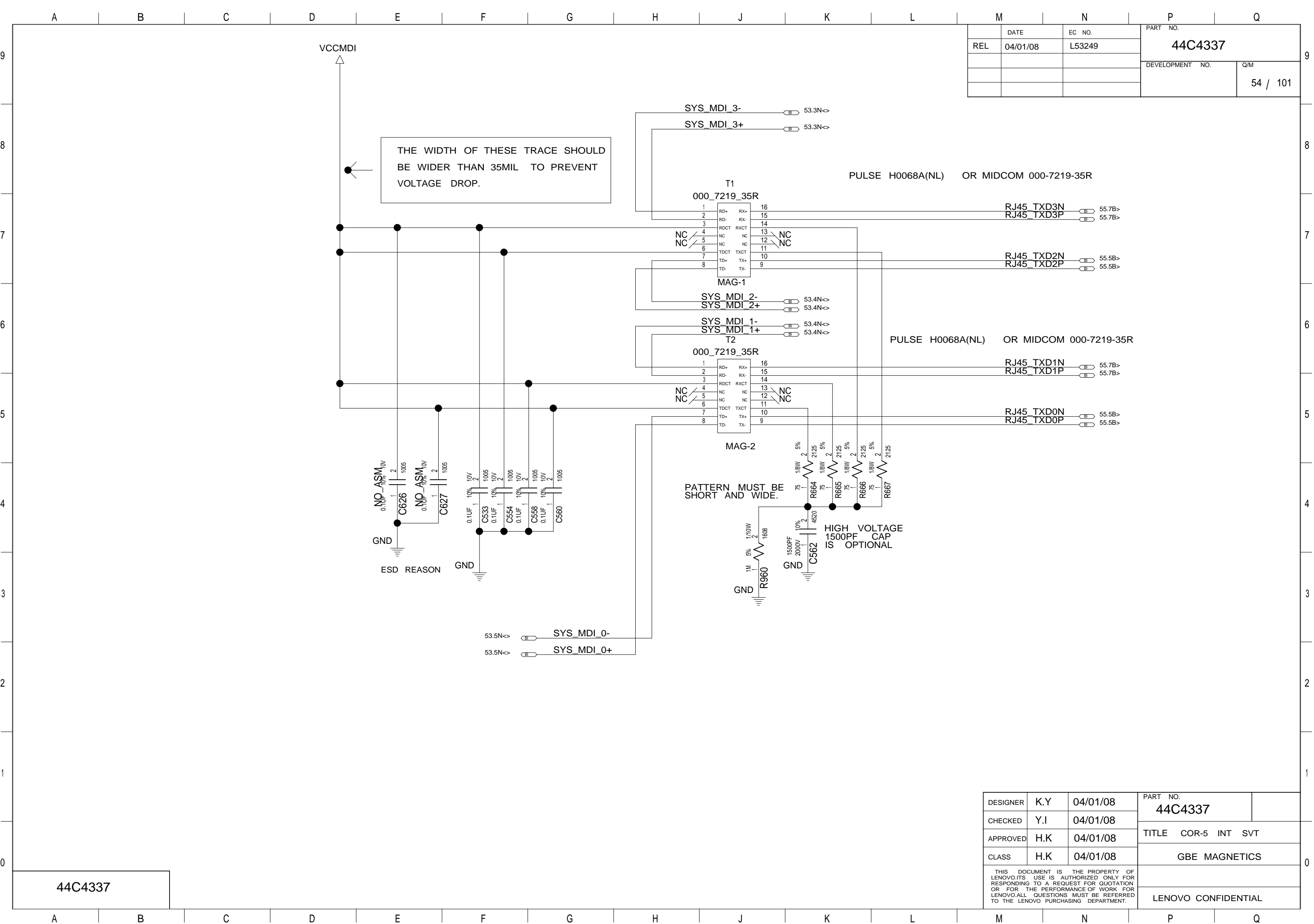
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DOCK_MDI_0- 64.3Q<
SYS_MDI_0+ 54.2F<>
SYS_MDI_0- 54.3F<>

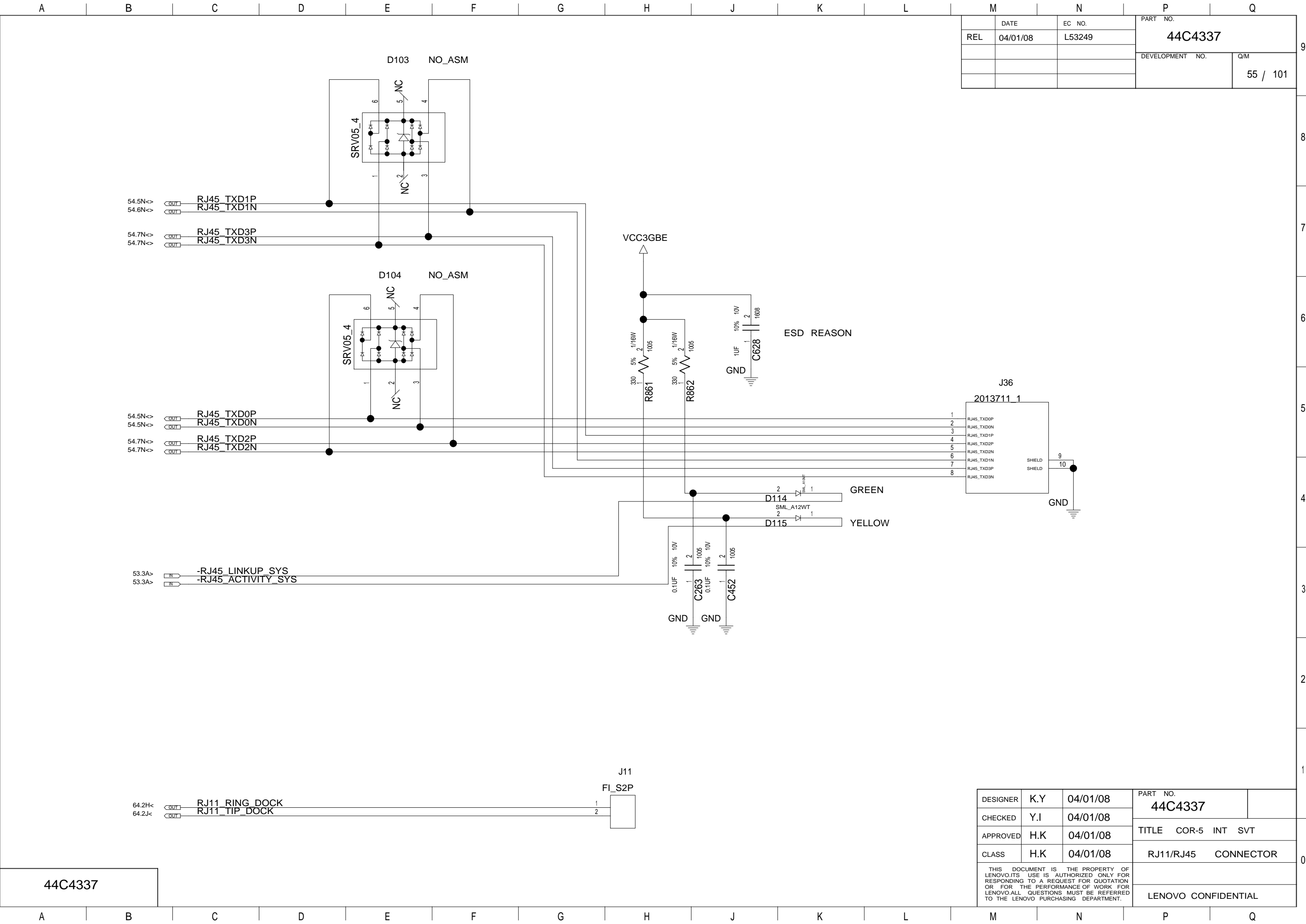
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DOCK_MDI_1- 64.3Q<>
SYS_MDI_1+ 54.6K<>
SYS_MDI_1- 54.6K<>

DOCK_MDI_2+ 64.3J<
DOCK_MDI_2- 64.3J<
SYS_MDI_2+ 54.6K<>
SYS_MDI_2- 54.6K<>

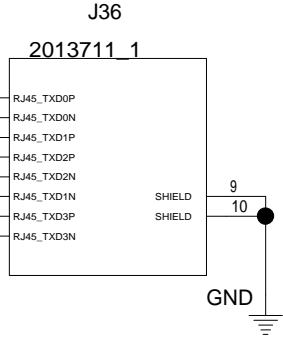
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DESIGNER	K.Y	04/01/08	PART NO.	
CHECKED	Y.I	04/01/08	44C4337	
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	GBE LAN SWITCH	
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			LENOVO CONFIDENTIAL	

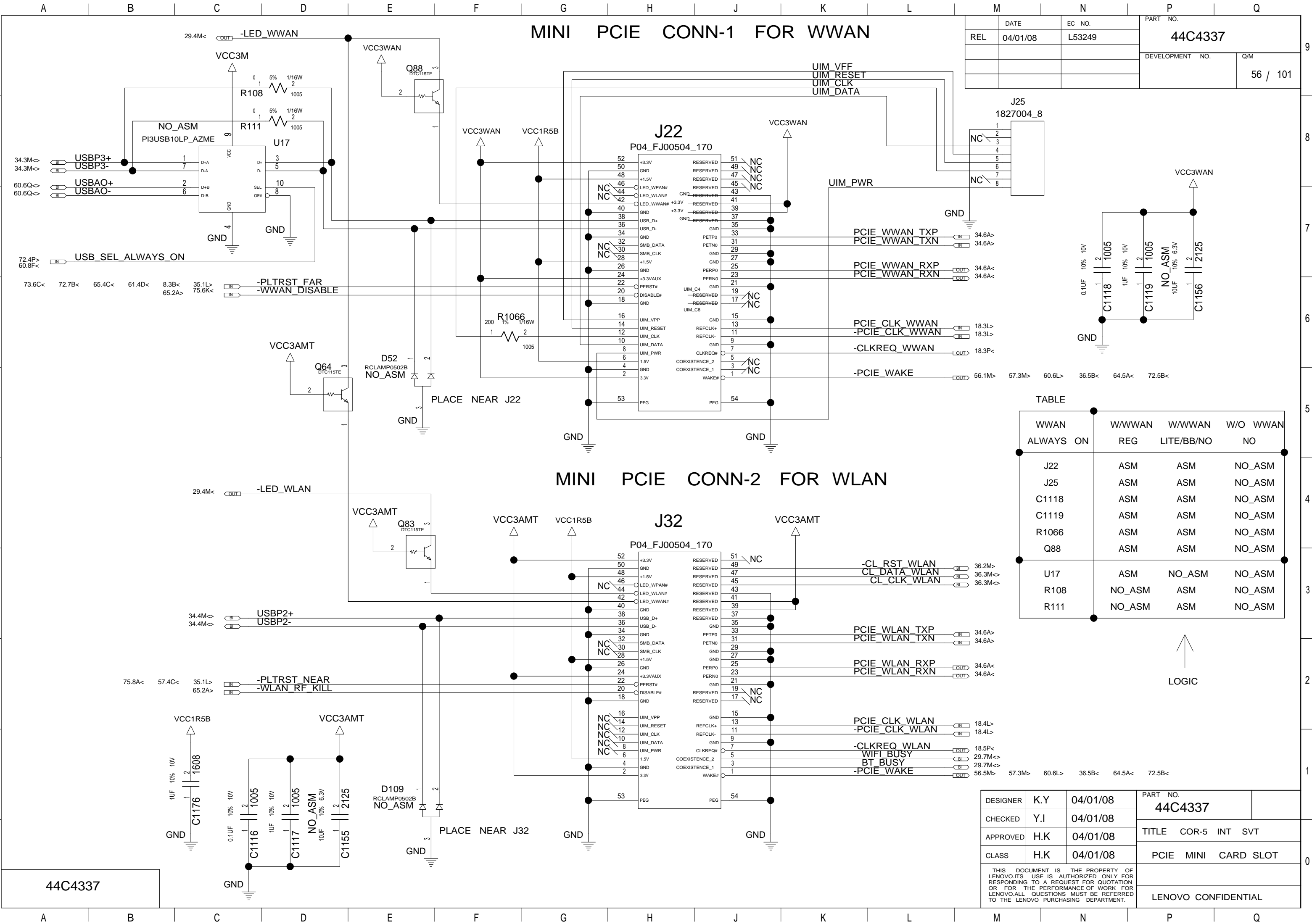


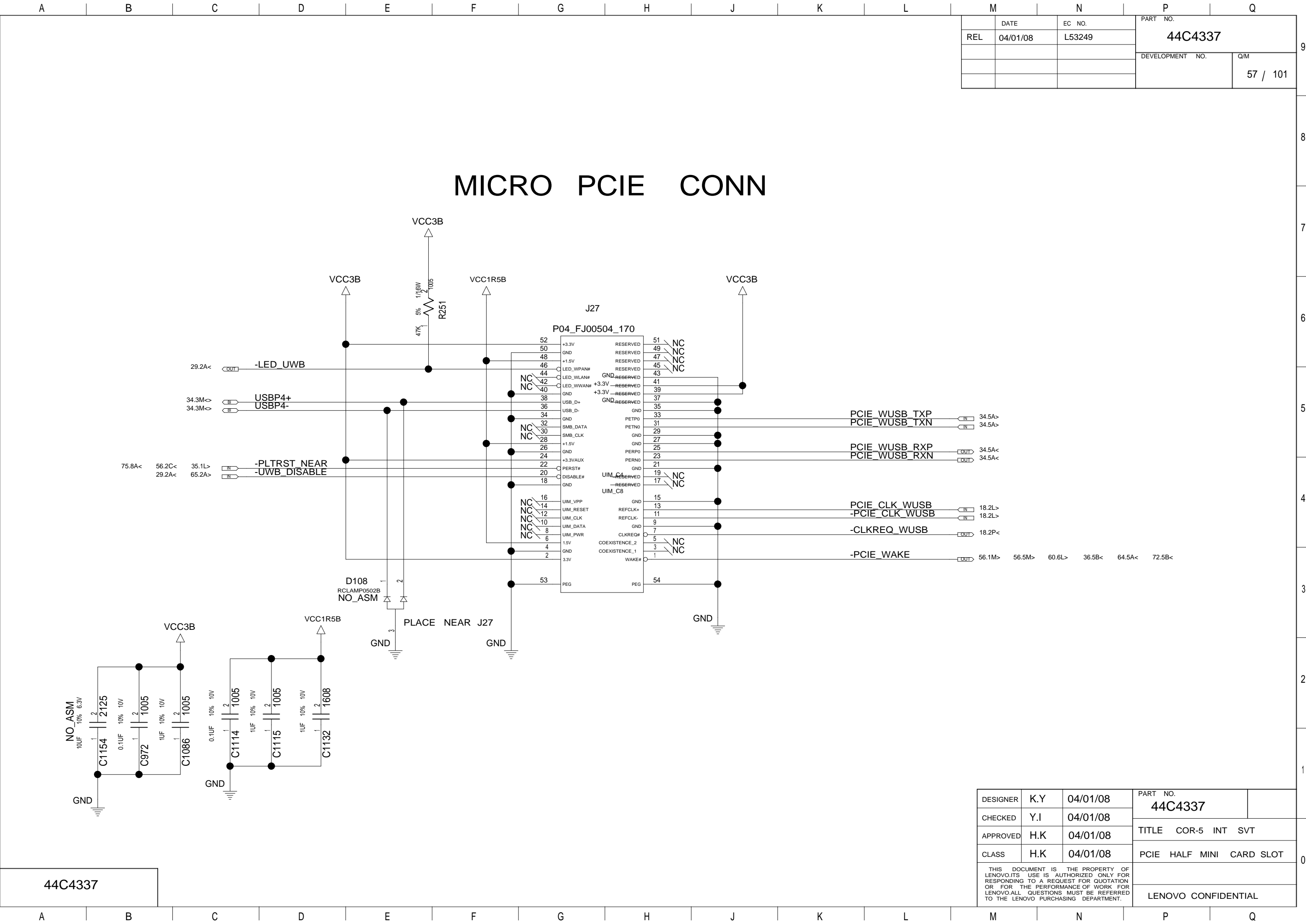


DATE		EC NO.	PART NO. 44C4337	
REL	04/01/08	L53249		
			DEVELOPMENT NO.	Q/M
				55 / 101



DESIGNER	K.Y	04/01/08	PART NO. 44C4337	
CHECKED	Y.I	04/01/08		
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	RJ11/RJ45 CONNECTOR	
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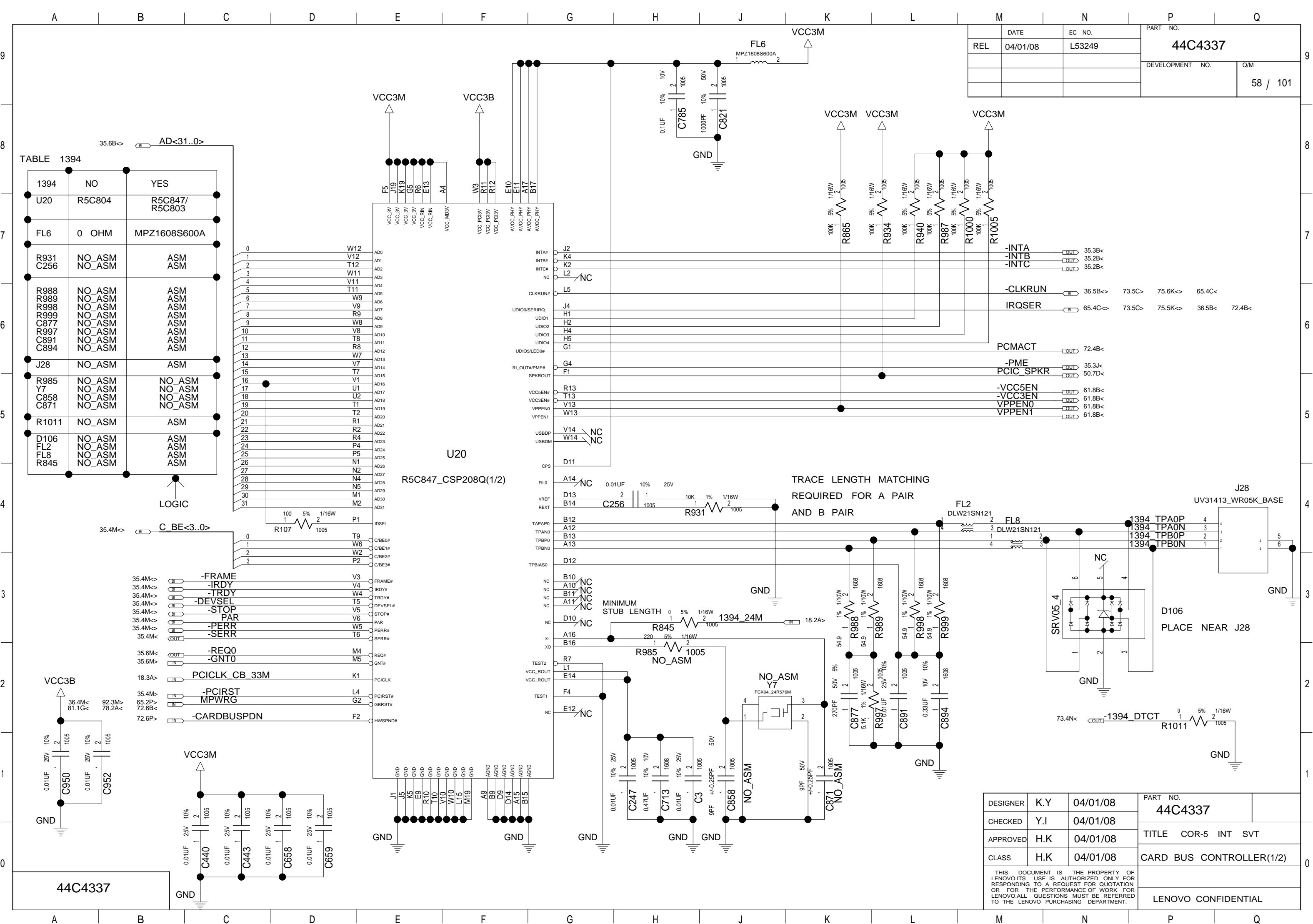


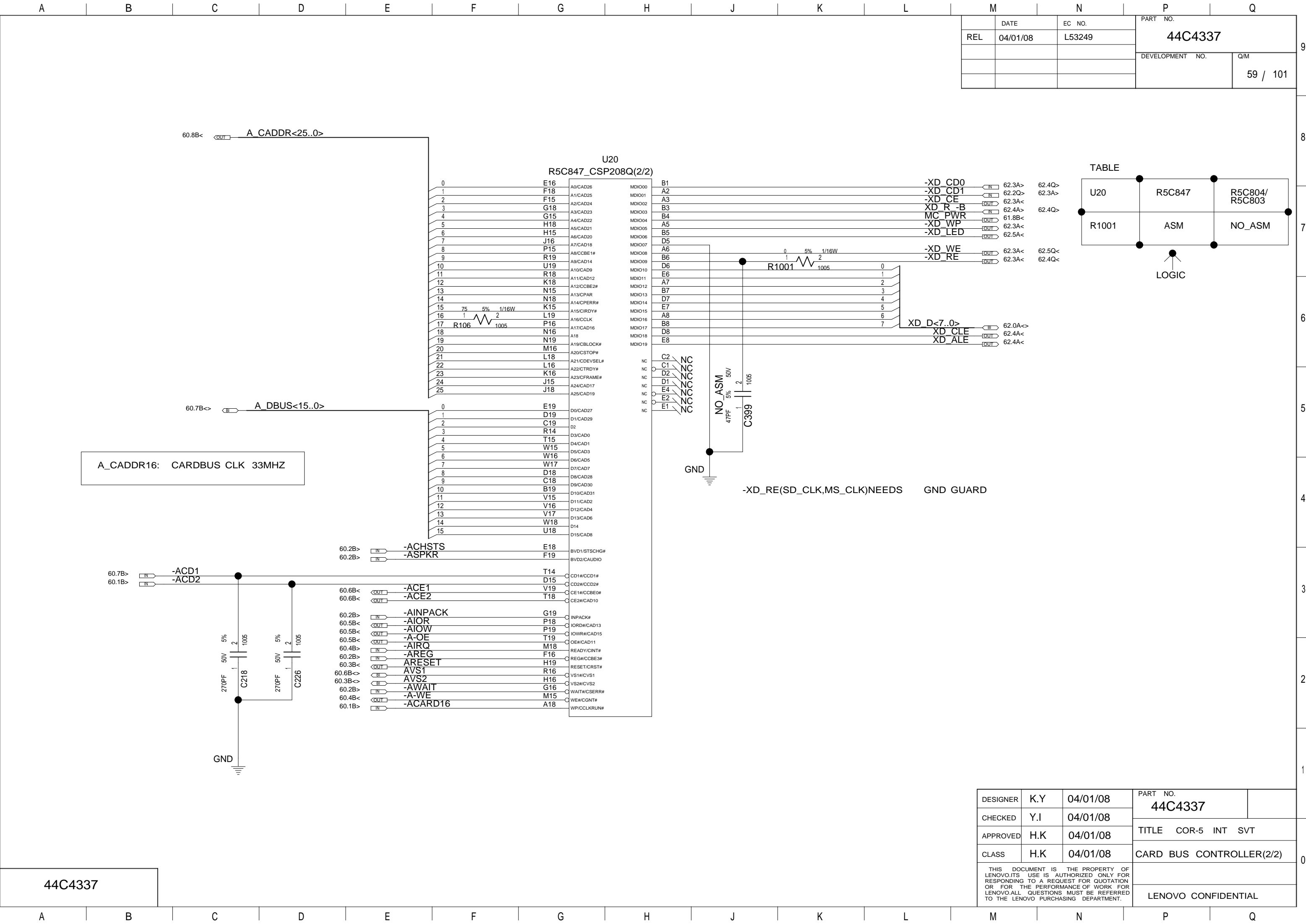


	DATE	EC NO.	PART NO.	
REL	04/01/08	L53249	44C4337	
			DEVELOPMENT NO.	Q/M
				57 / 101

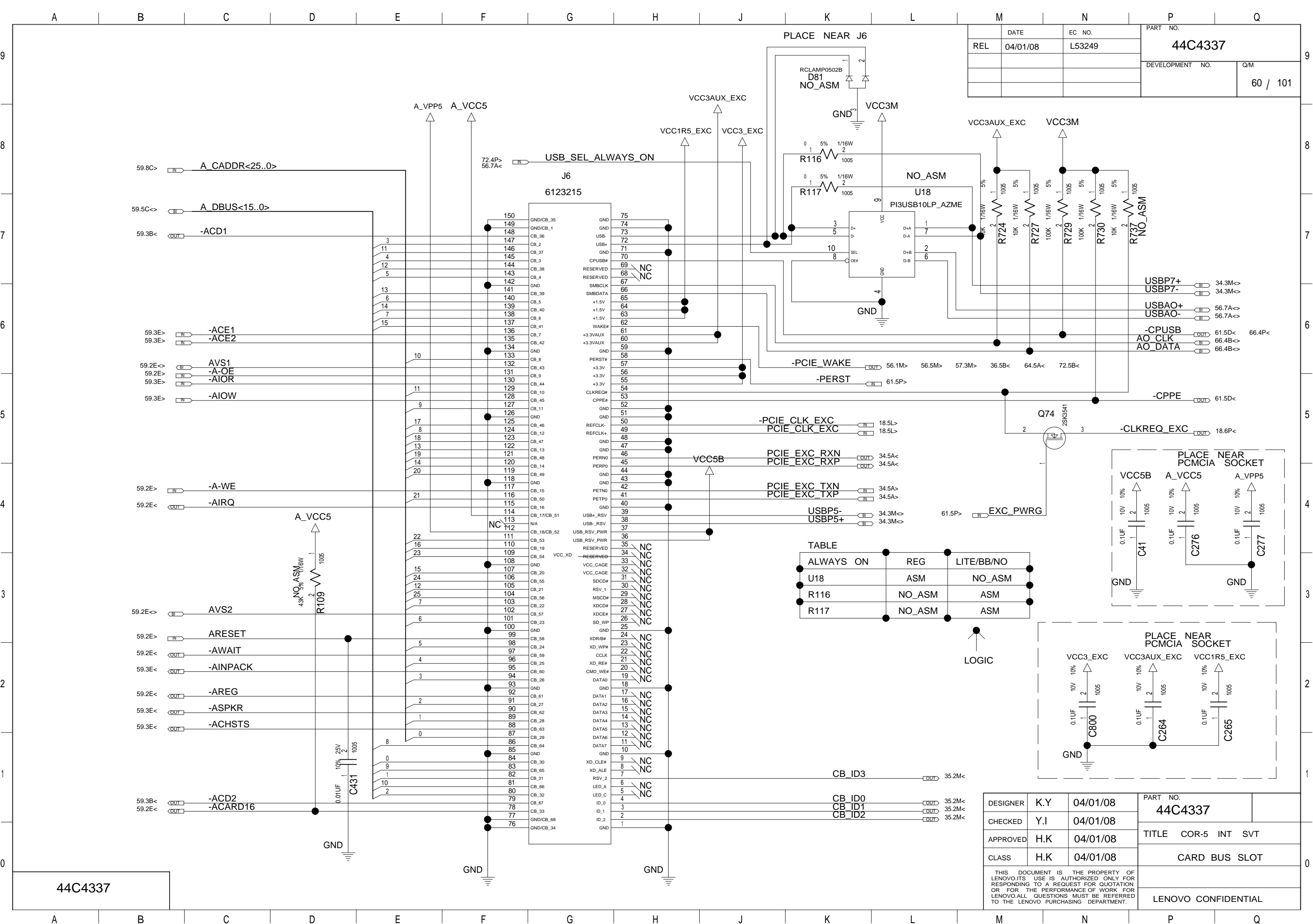
44C4337

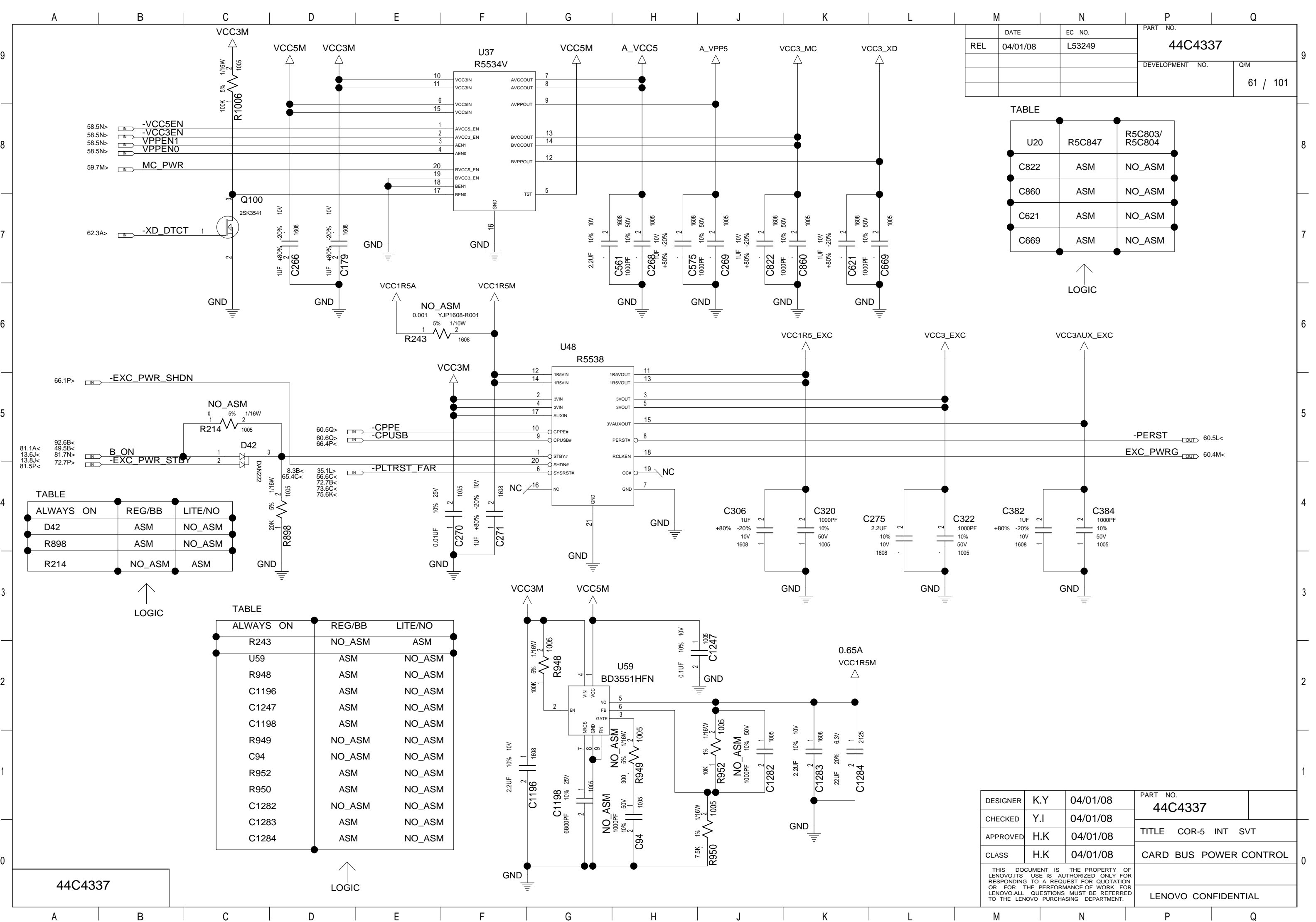
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CHECKED	Y.I	04/01/08	44C4337	
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CLASS	H.K	04/01/08	PCIE HALF MINI CARD SLOT	
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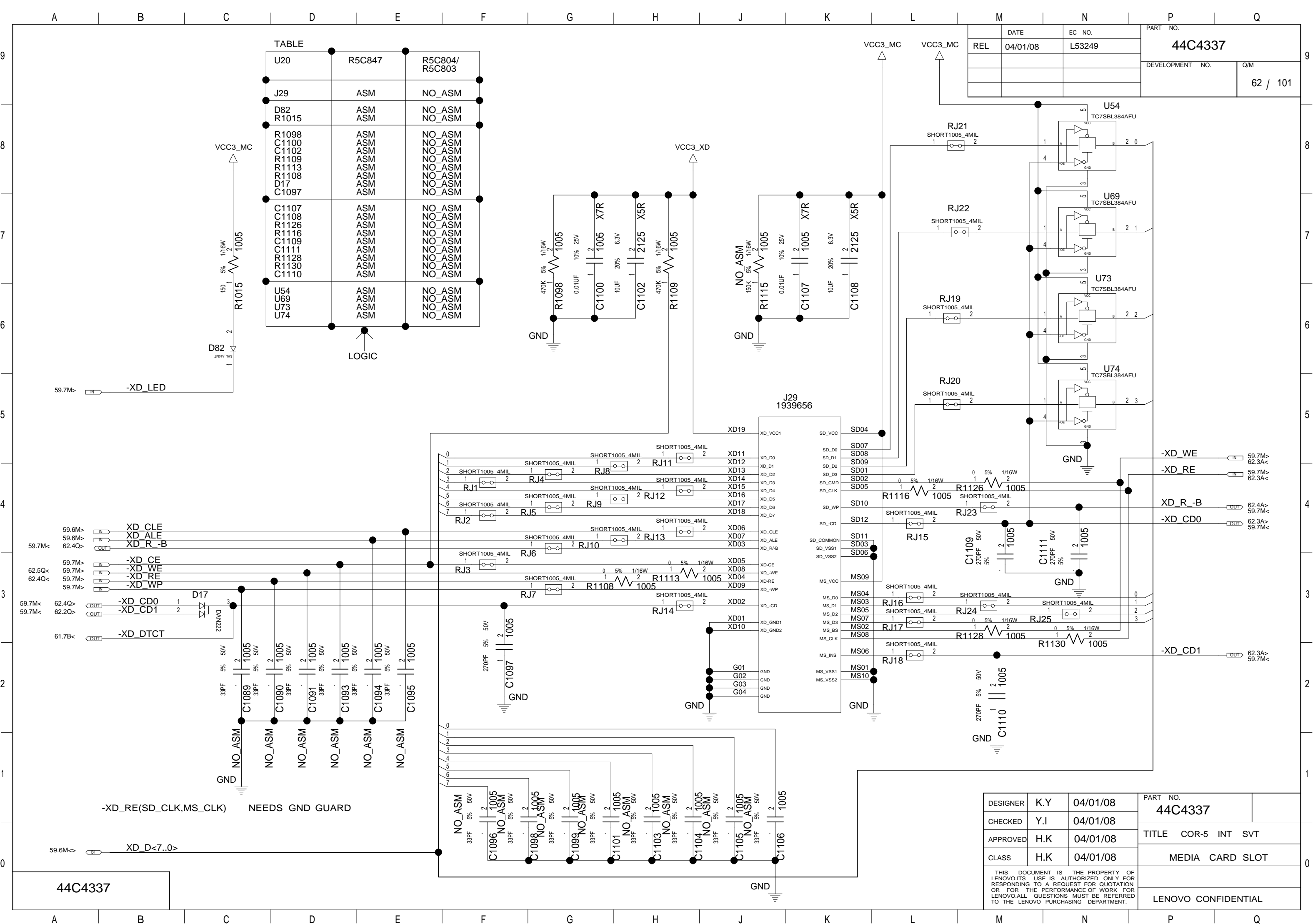


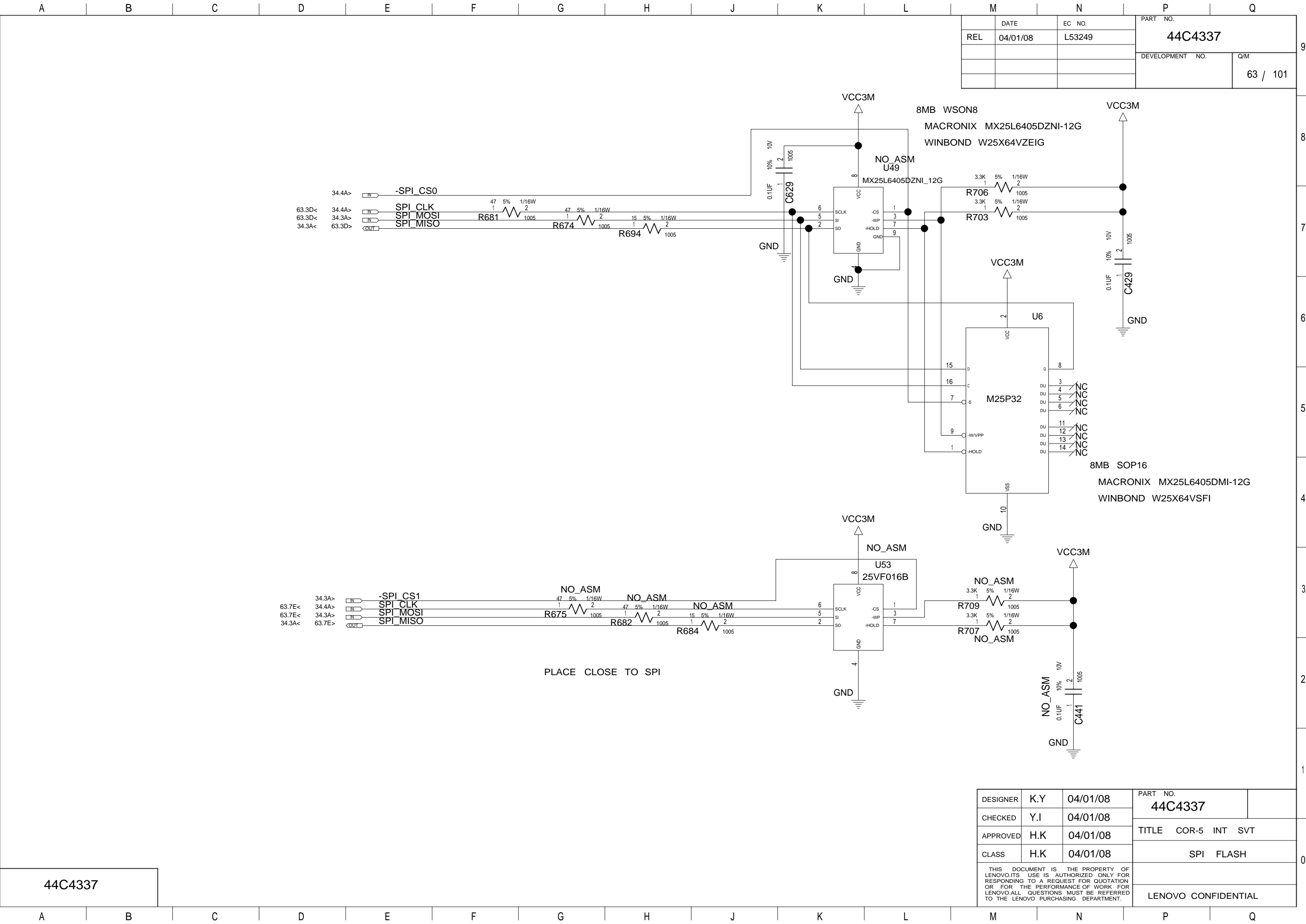


DESIGNER	K.Y	04/01/08	PART NO.	44C4337
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CLASS	H.K	04/01/08	THIS DOCUMENT IS THE PROPERTY OF LENOVO.ITS USE IS AUTHORIZED ONLY FOR RESPONDING TO A REQUEST FOR QUOTATION OR FOR THE PERFORMANCE OF WORK FOR LENOVO.ALL QUESTIONS MUST BE REFERRED TO THE LENOVO PURCHASING DEPARTMENT.	
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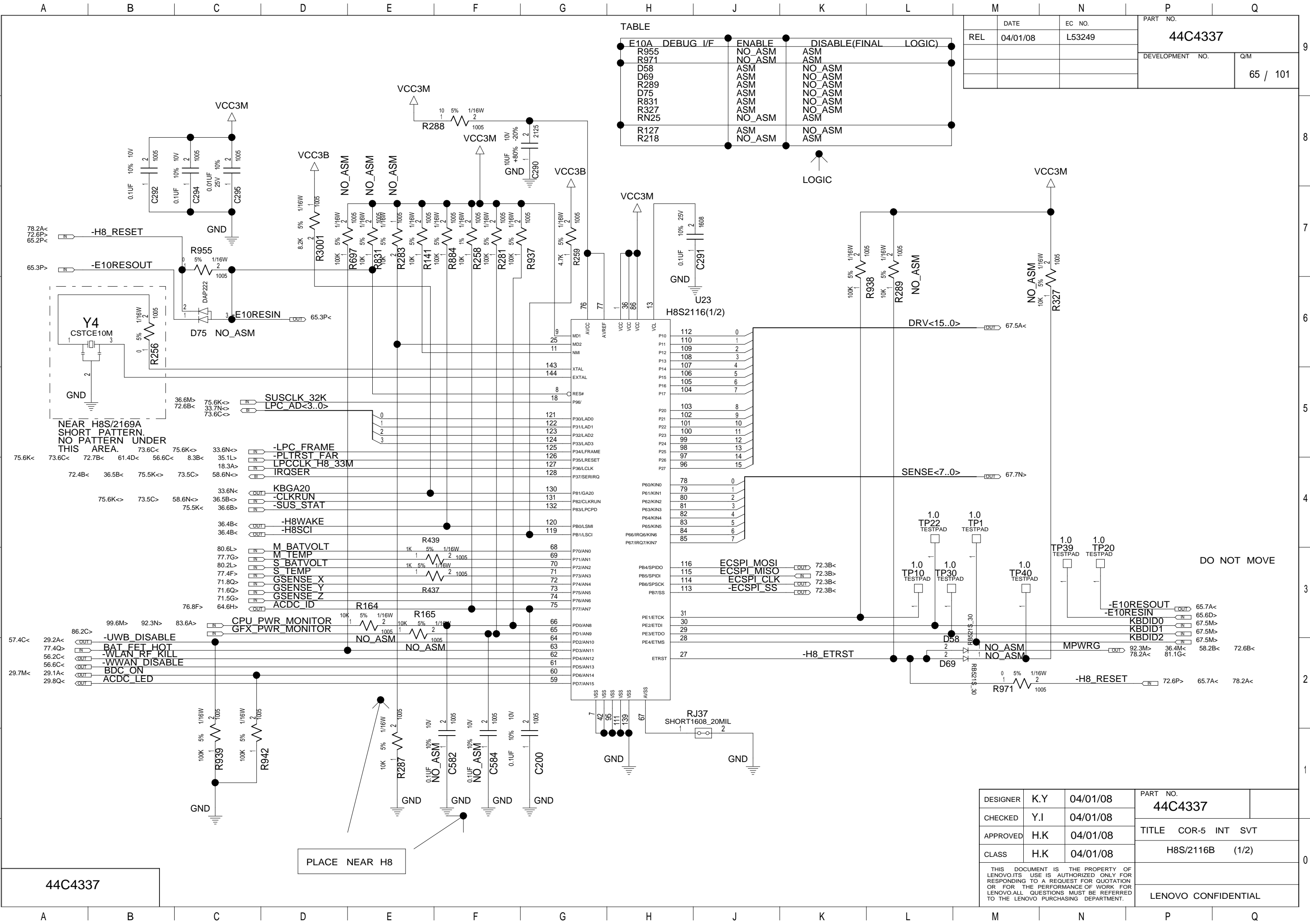


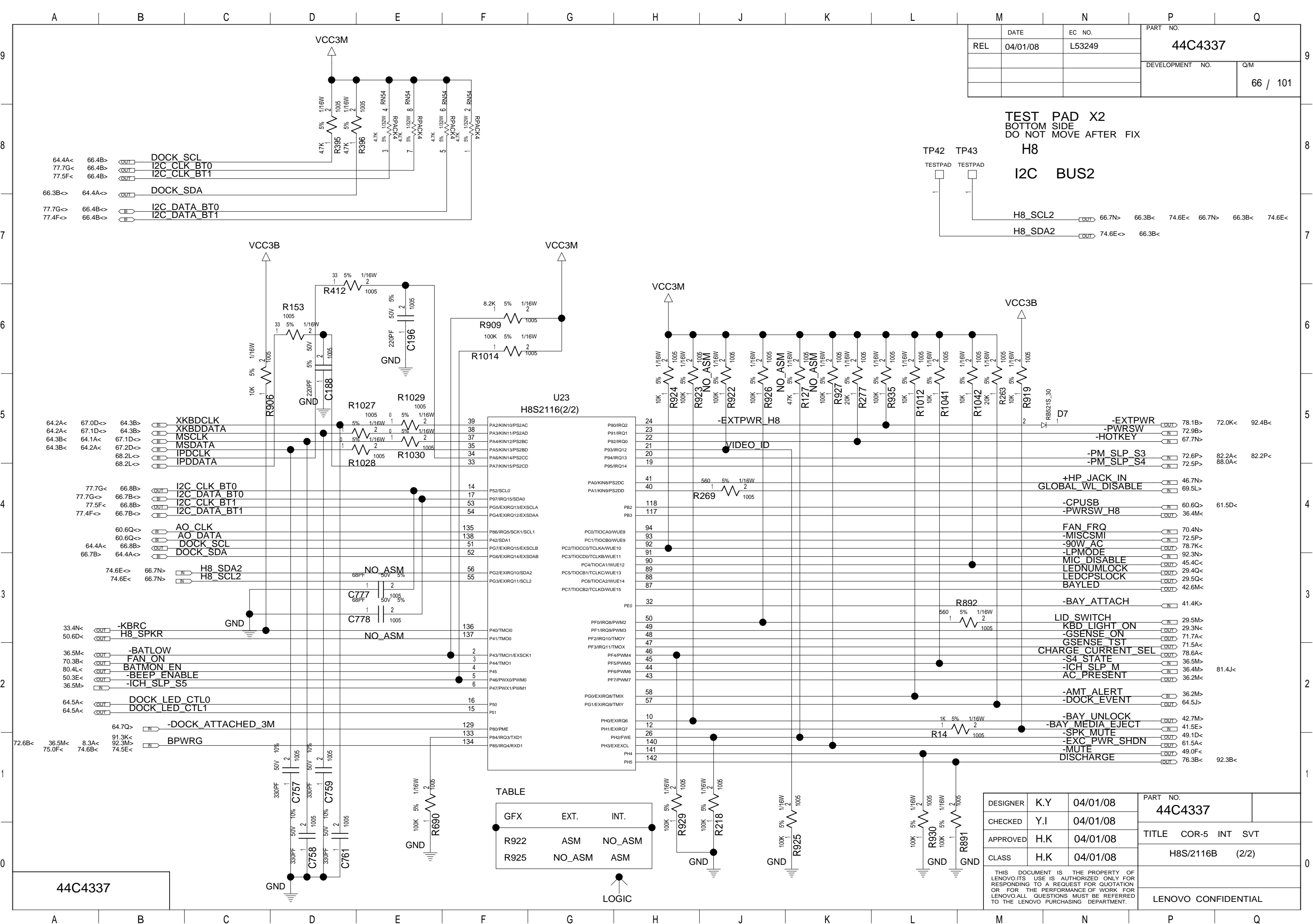


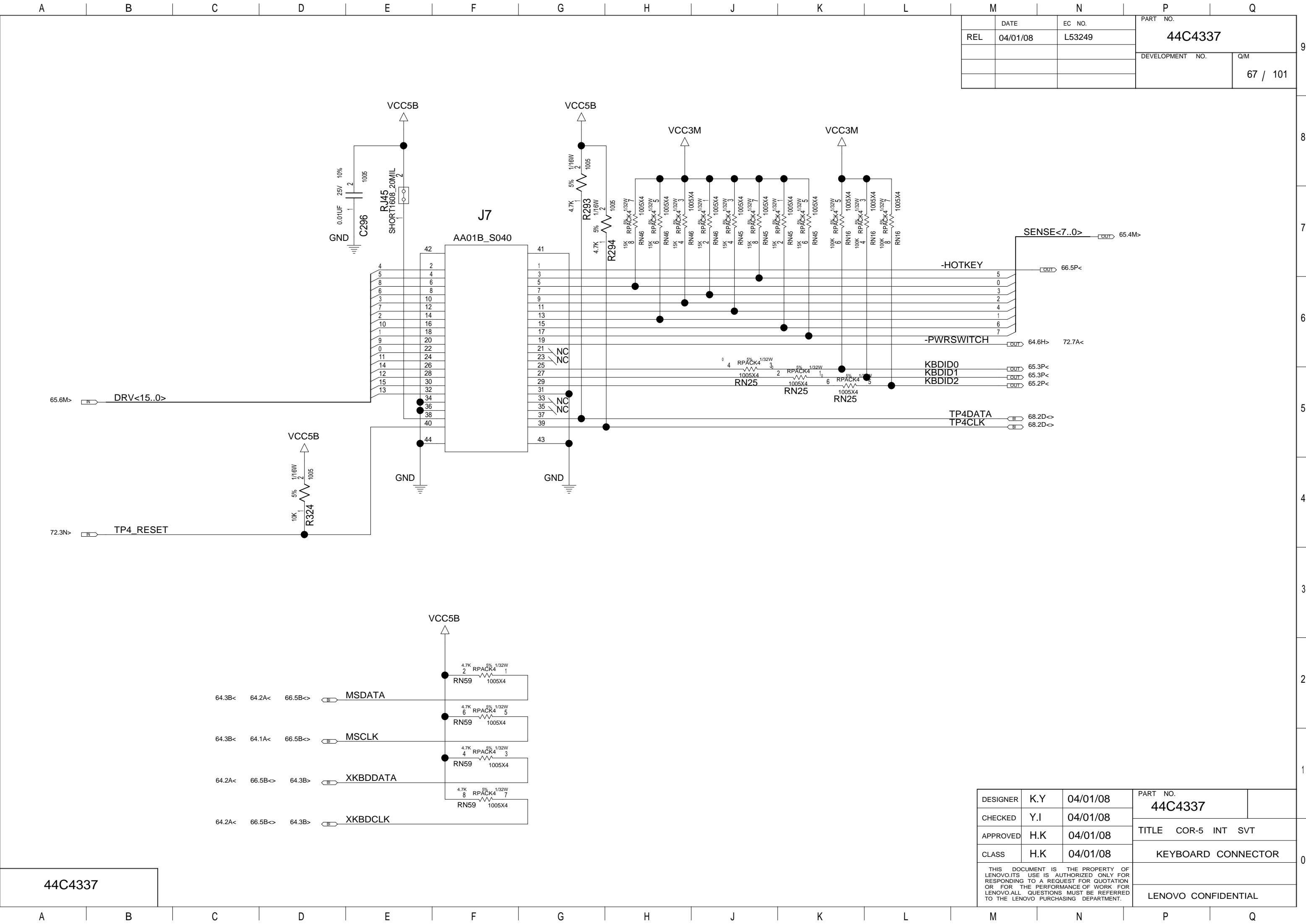
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REL	04/01/08	L53249		
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			Q/M	
			63 / 101	

DESIGNER	K.Y	04/01/08	PART NO. 44C4337	
CHECKED	Y.I	04/01/08		
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	SPI FLASH	
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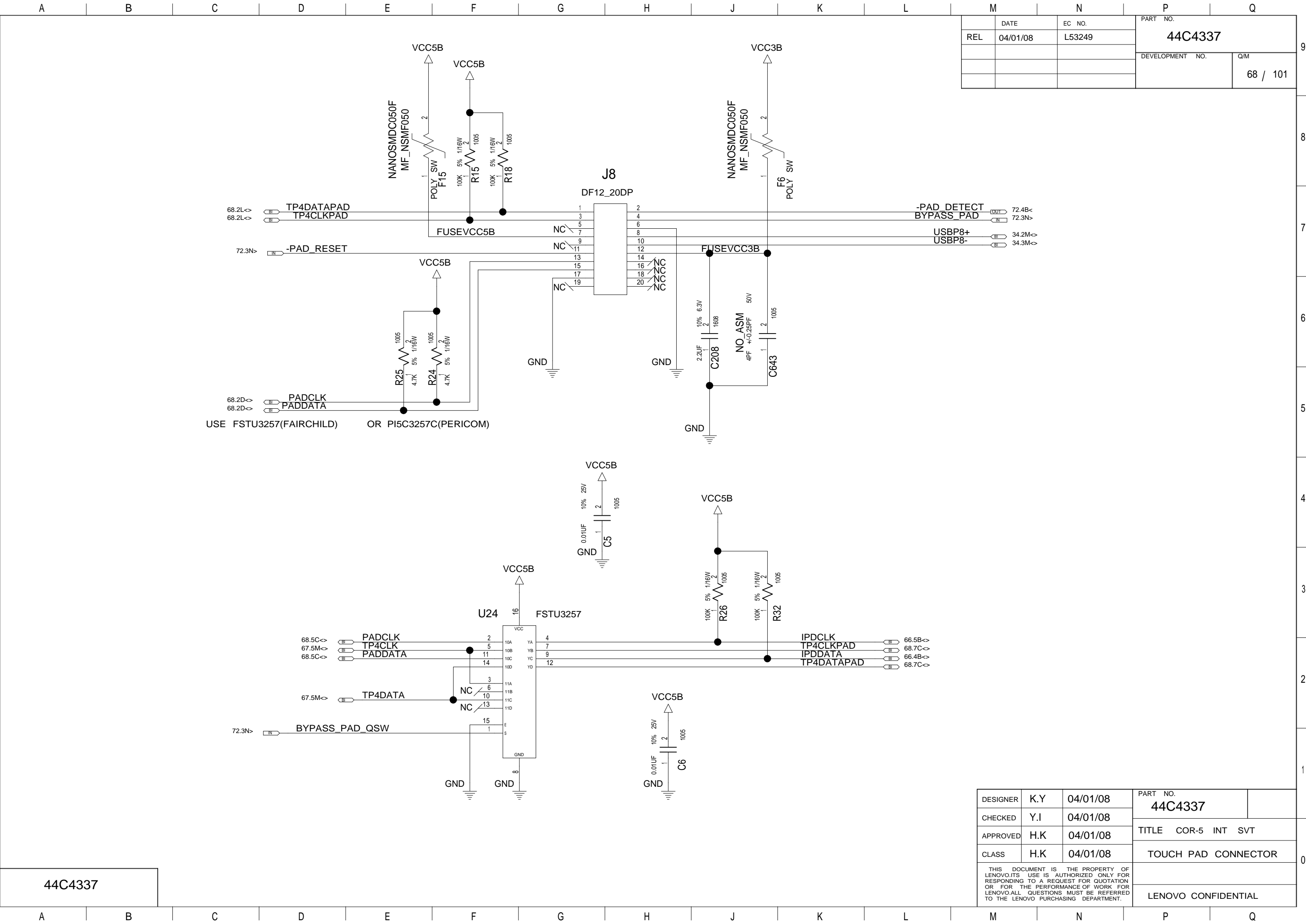




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44C4337

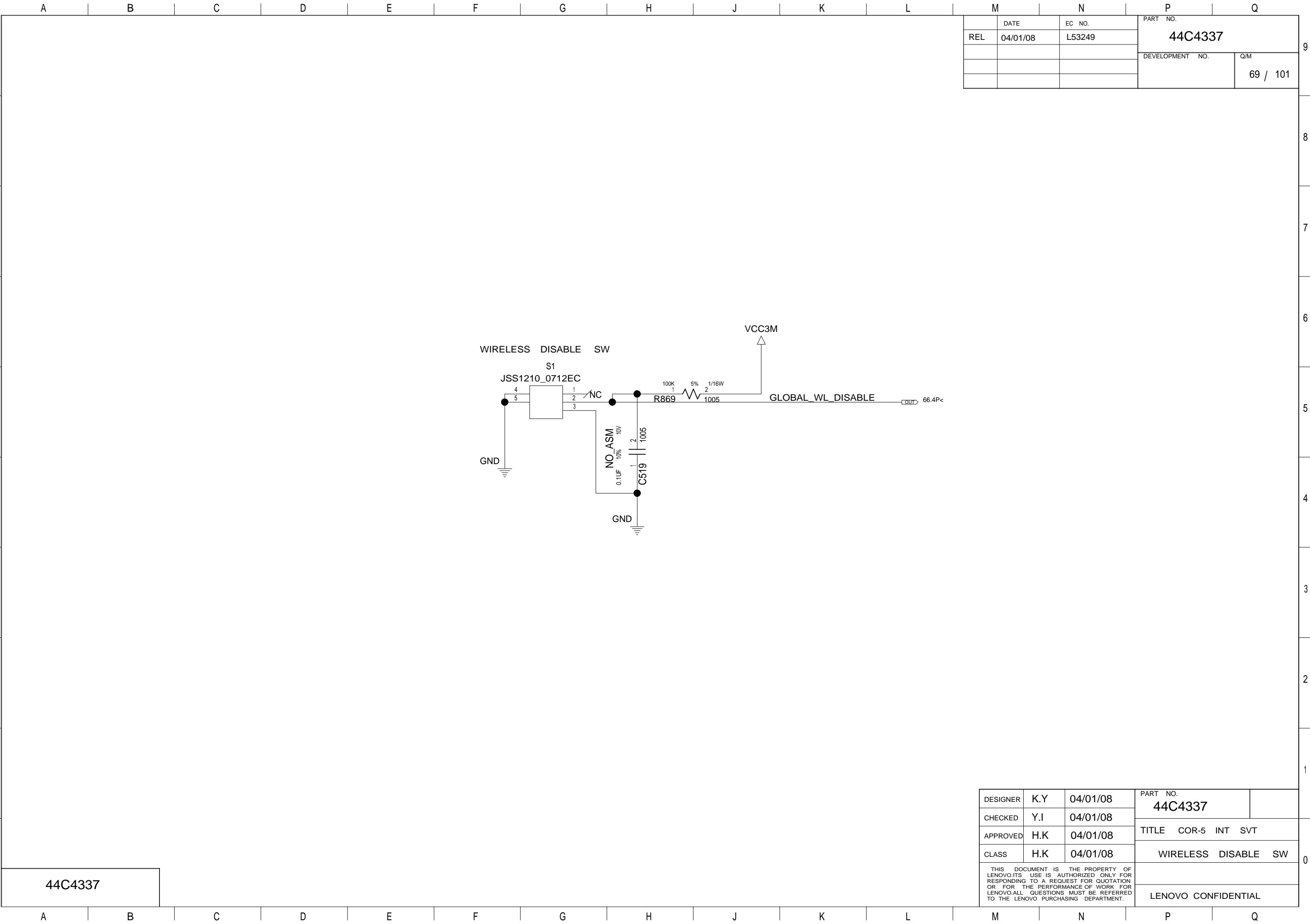
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CLASS	H.K	04/01/08	KEYBOARD CONNECTOR	
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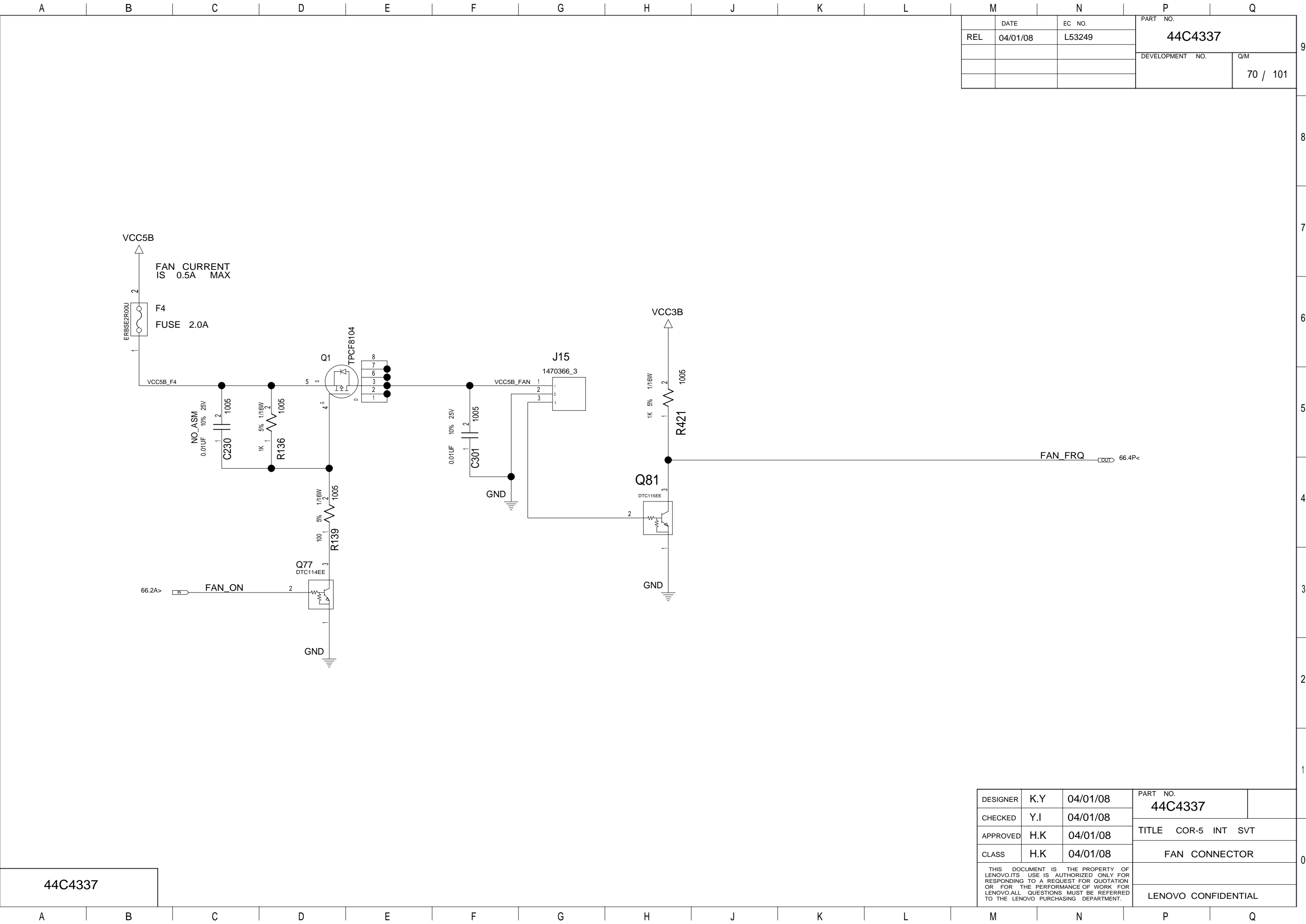


REL		DATE	04/01/08	EC NO.	L53249	PART NO.		44C4337	
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								68 / 101	

44C4337

DESIGNER	K.Y	04/01/08	PART NO.		
CHECKED	Y.I	04/01/08	44C4337		
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT		
CLASS	H.K	04/01/08	TOUCH PAD CONNECTOR		
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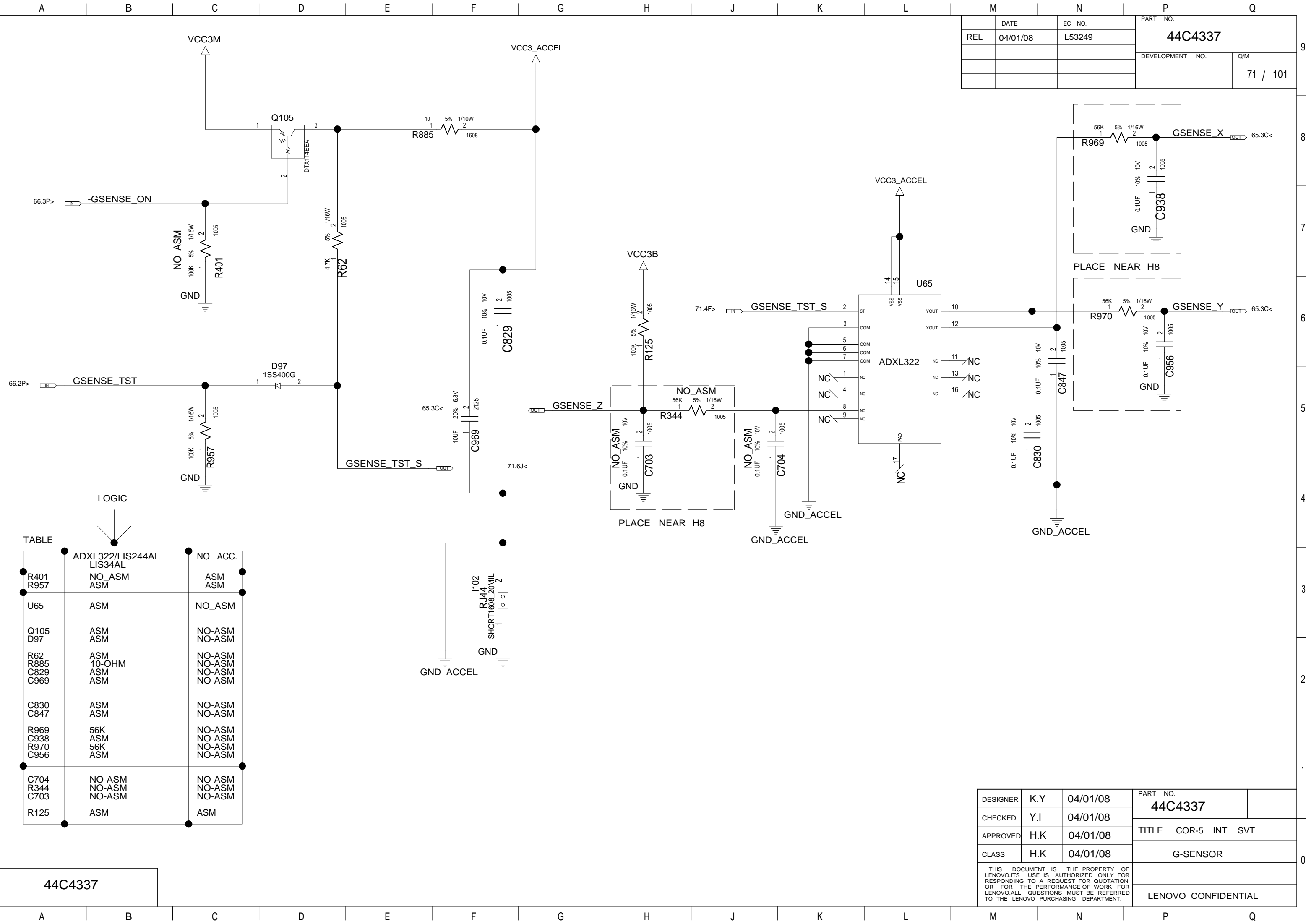




M		N		P		Q	
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						Q/M	
						70 / 101	

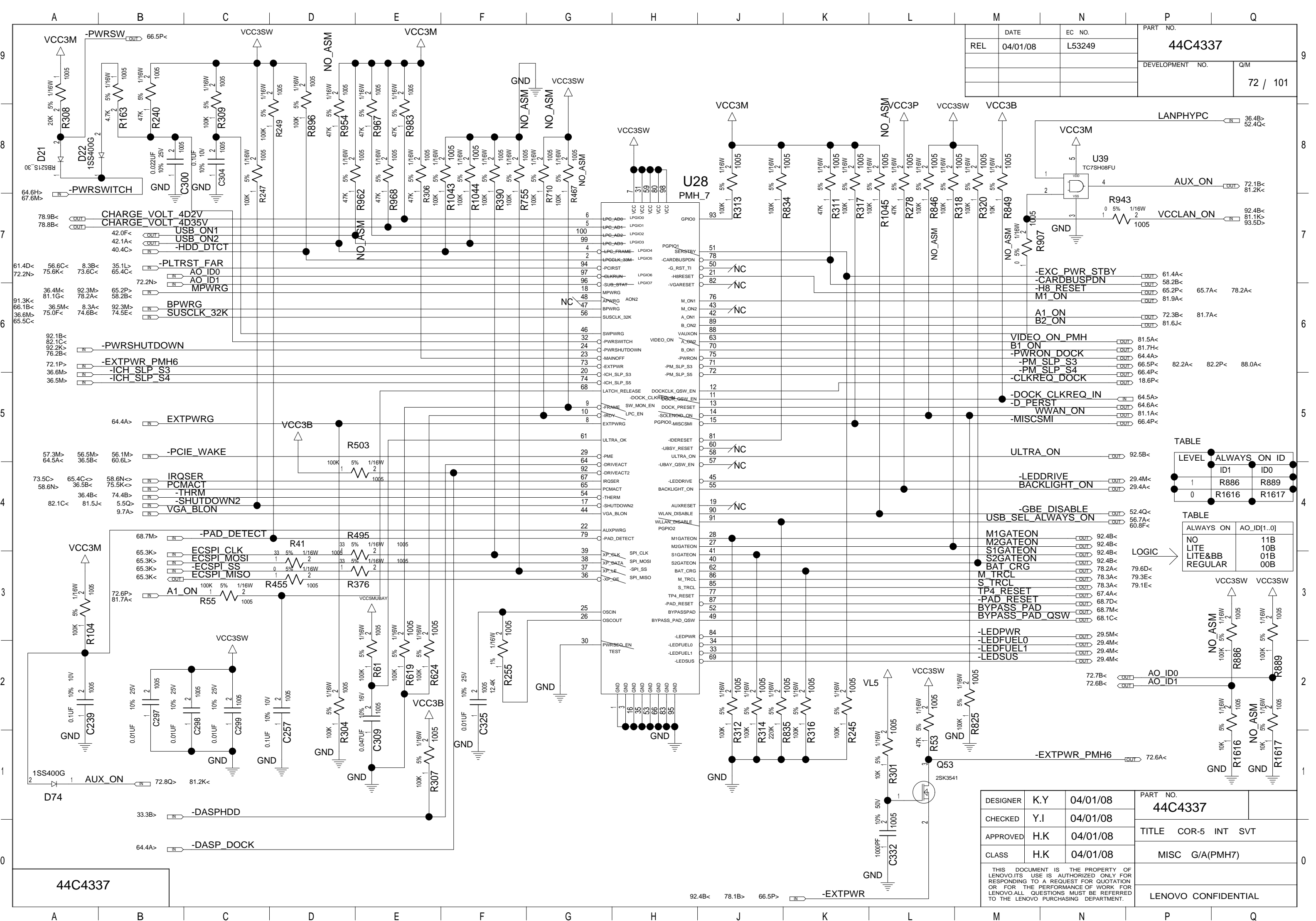
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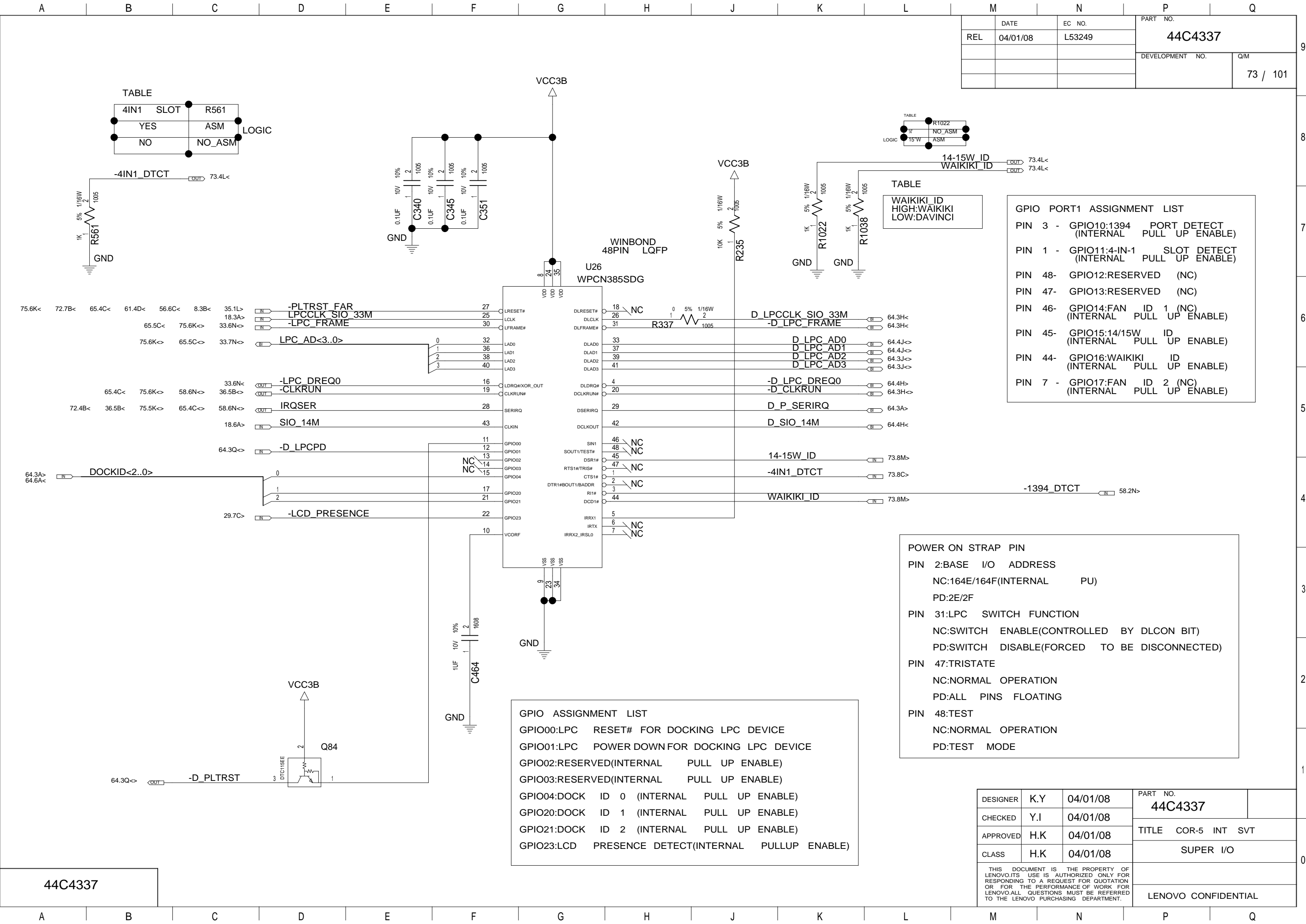
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CLASS	H.K	04/01/08	FAN CONNECTOR		
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	DATE	EC NO.	PART NO.	
REL	04/01/08	L53249	44C4337	
			DEVELOPMENT NO.	
			Q/M	
			71 / 101	

DESIGNER	K.Y	04/01/08	PART NO.	
CHECKED	Y.I	04/01/08	44C4337	
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	G-SENSOR	
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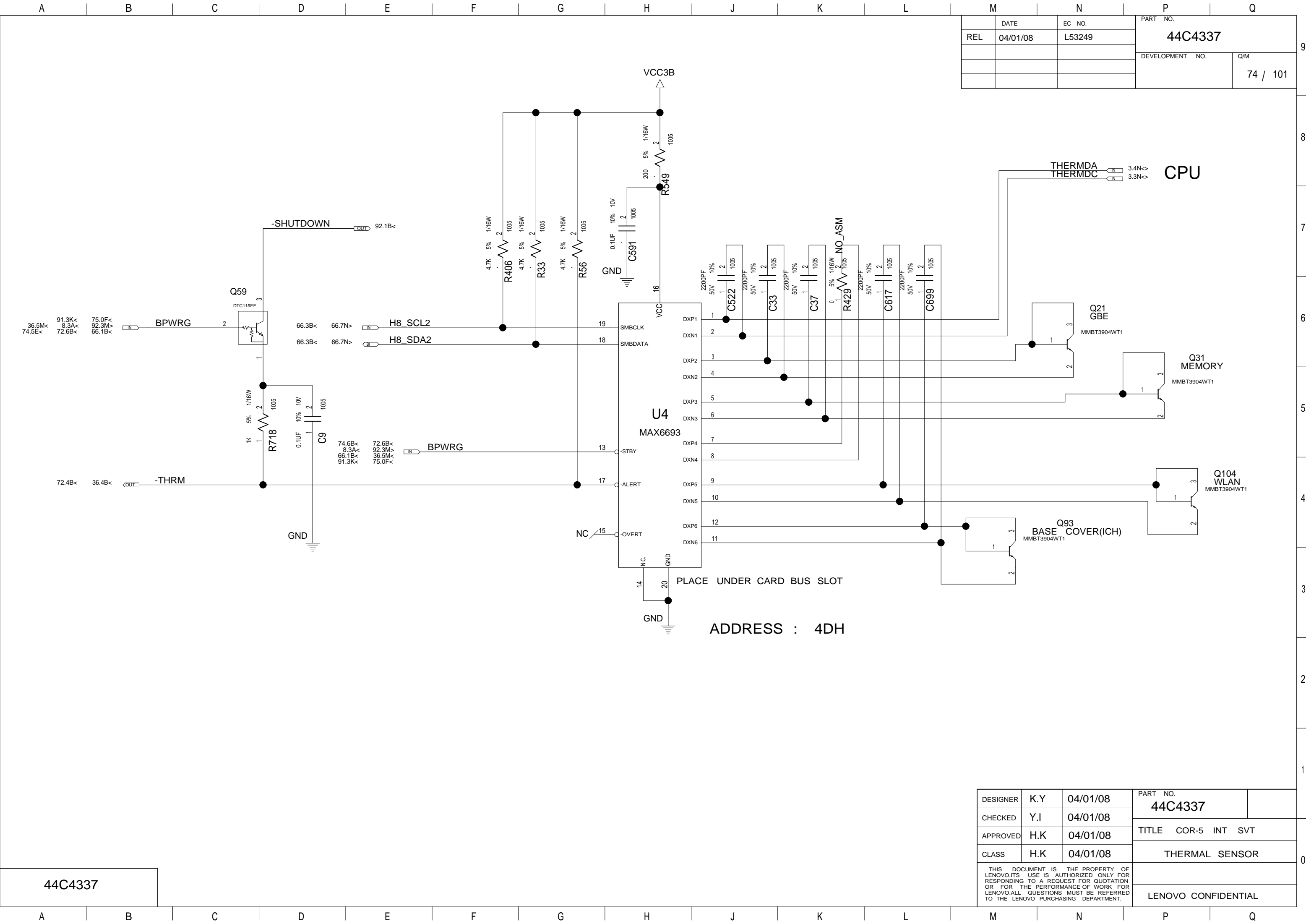


44C4337

44C4337

73 / 101

DESIGNER	K.Y	04/01/08	PART NO.	44C4337
CHECKED	Y.I	04/01/08		
APPROVED	H.K	04/01/08	TITLE	COR-5 INT SVT
CLASS	H.K	04/01/08		SUPER I/O
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	DATE	EC NO.	PART NO. 44C4337	
REL	04/01/08	L53249		
			DEVELOPMENT NO. Q/M	
			74 / 101	

CPU

Q31
MEMORY

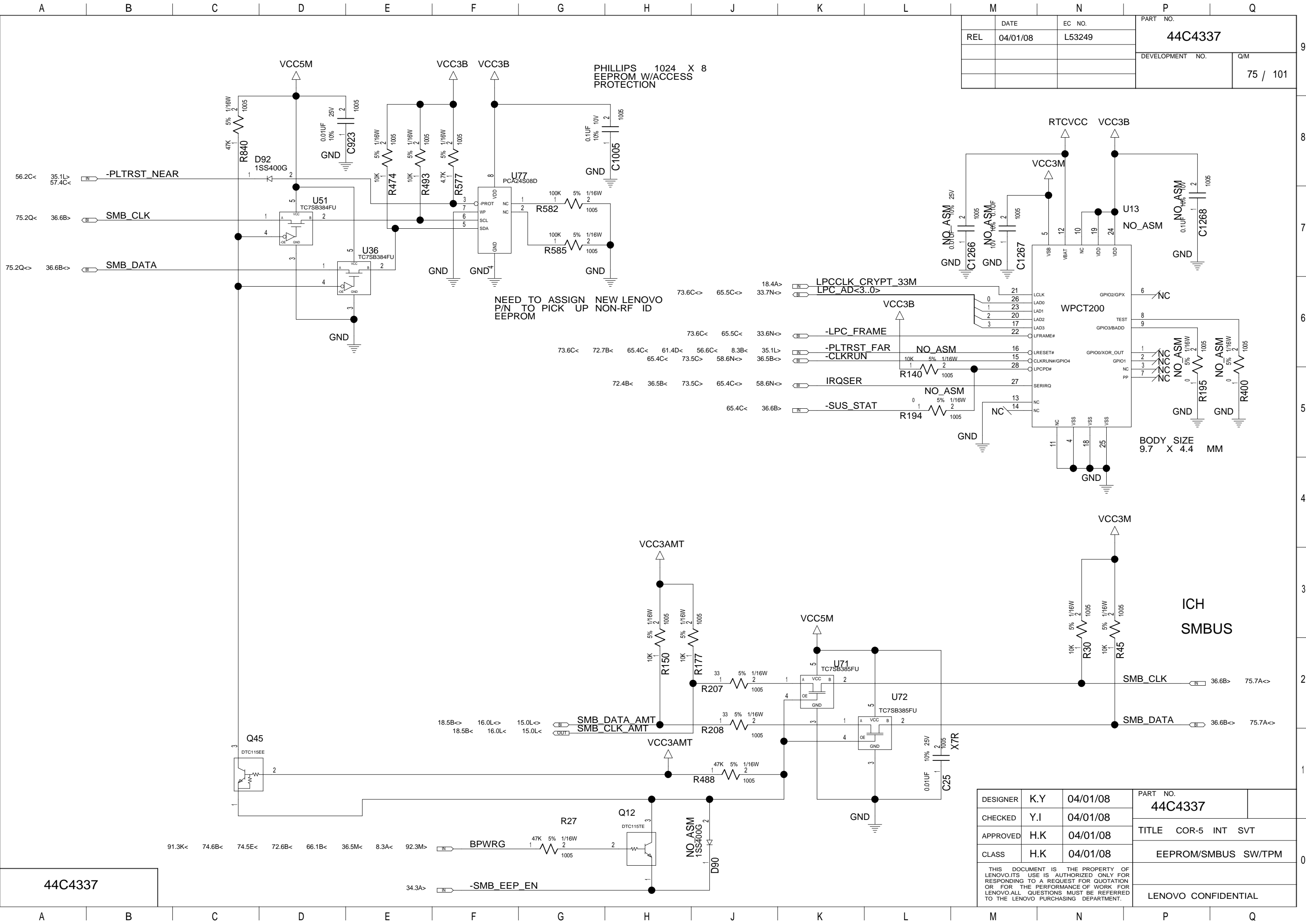
Q104
WLAN

Q93
BASE COVER(ICH)

Q21
GBE

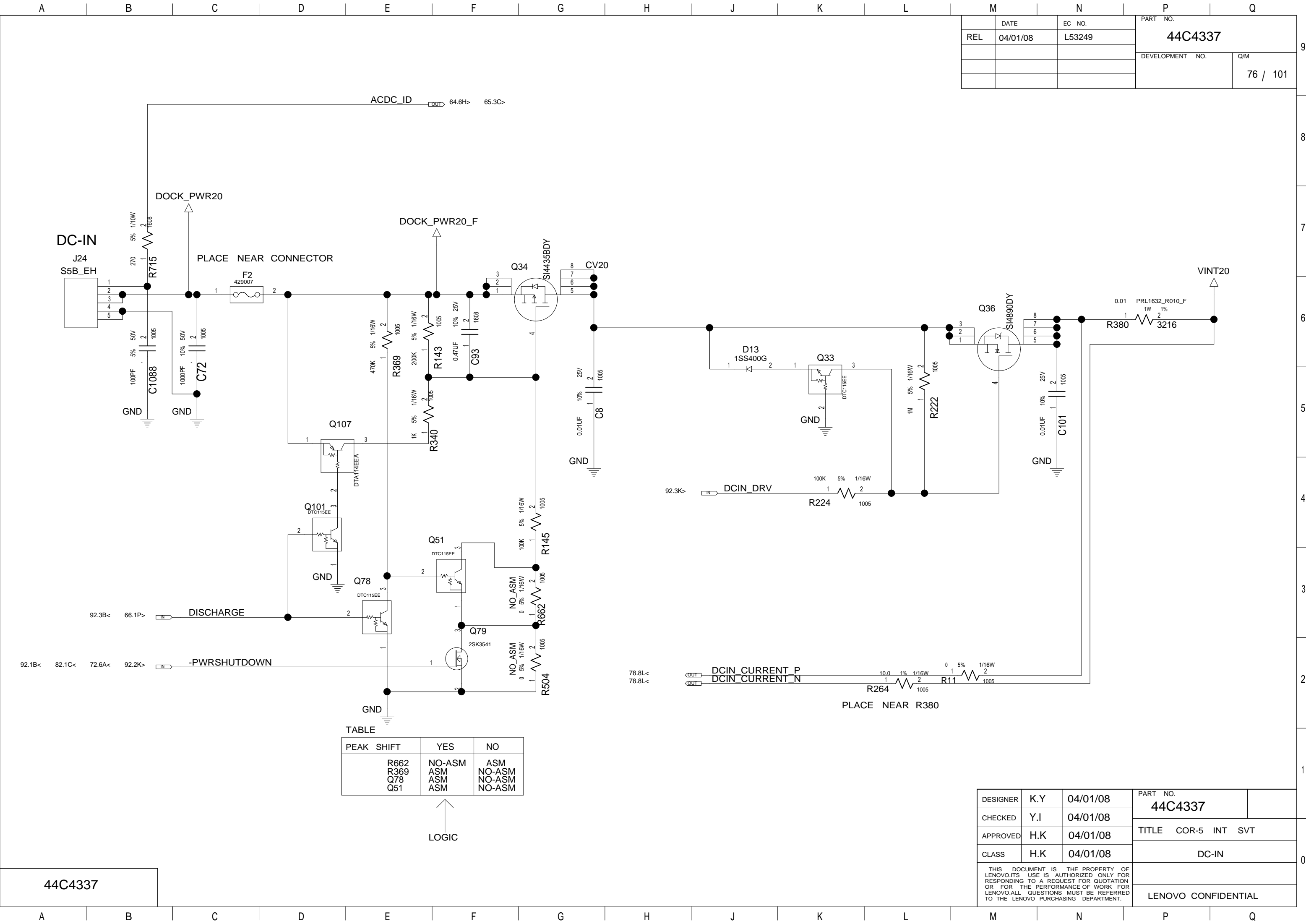
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CLASS	H.K	04/01/08	THERMAL SENSOR	
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	DATE	EC NO.	PART NO.	
REL	04/01/08	L53249	44C4337	
			DEVELOPMENT NO.	Q/M
				75 / 101

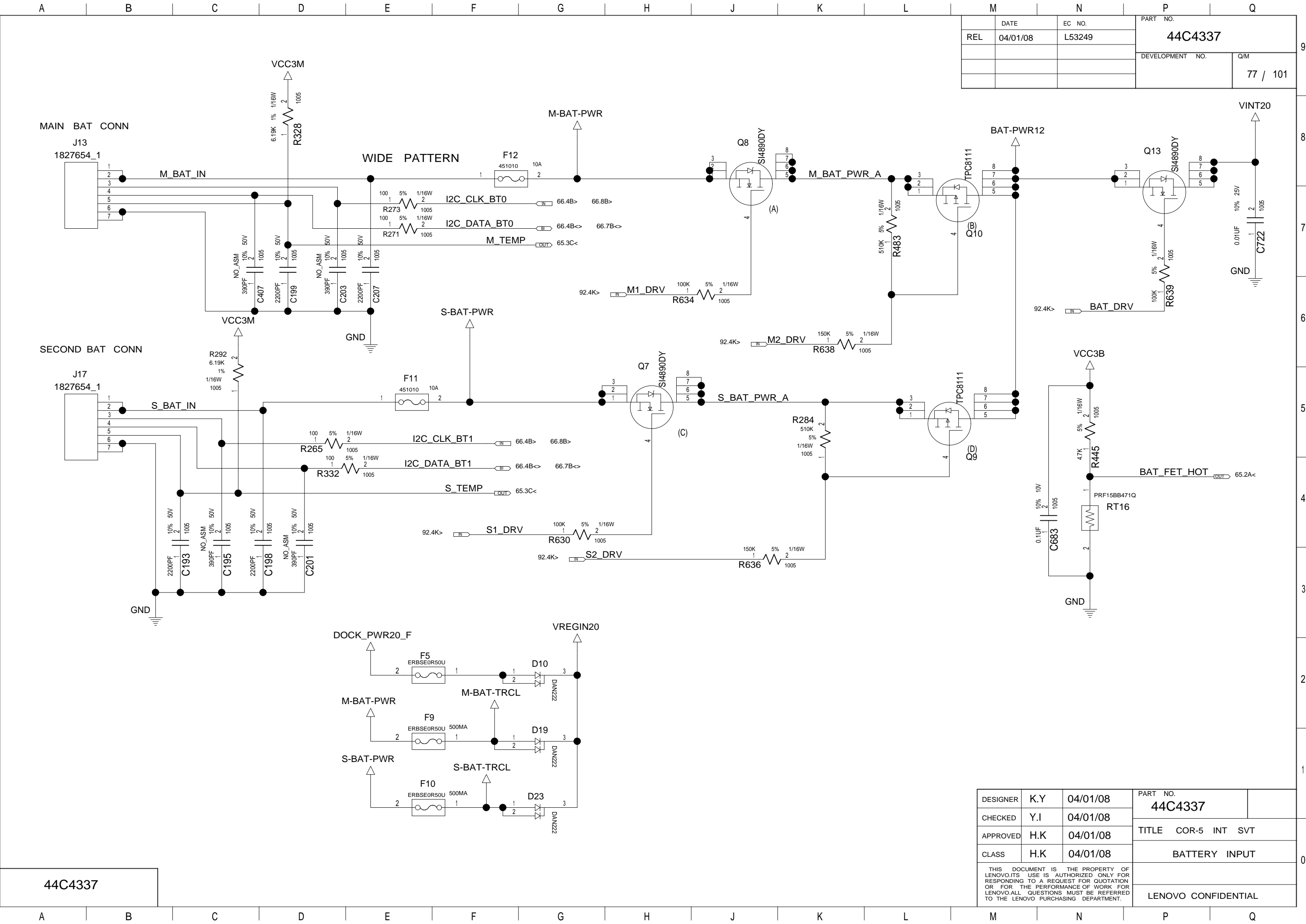
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CLASS	H.K	04/01/08	EEPROM/SMBUS SW/TPM	
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DATE		EC NO.	PART NO. 44C4337	
REL	04/01/08	L53249		
			DEVELOPMENT NO.	Q/M
				76 / 101

PEAK	SHIFT	YES	NO
	R662	NO-ASM	ASM
	R369	ASM	NO-ASM
	Q78	ASM	NO-ASM
	Q51	ASM	NO-ASM

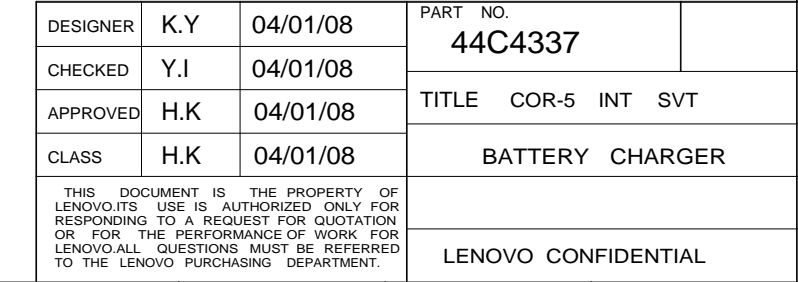
DESIGNER	K.Y	04/01/08	PART NO.	
CHECKED	Y.I	04/01/08	44C4337	
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	DC-IN	
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			LENOVO CONFIDENTIAL	

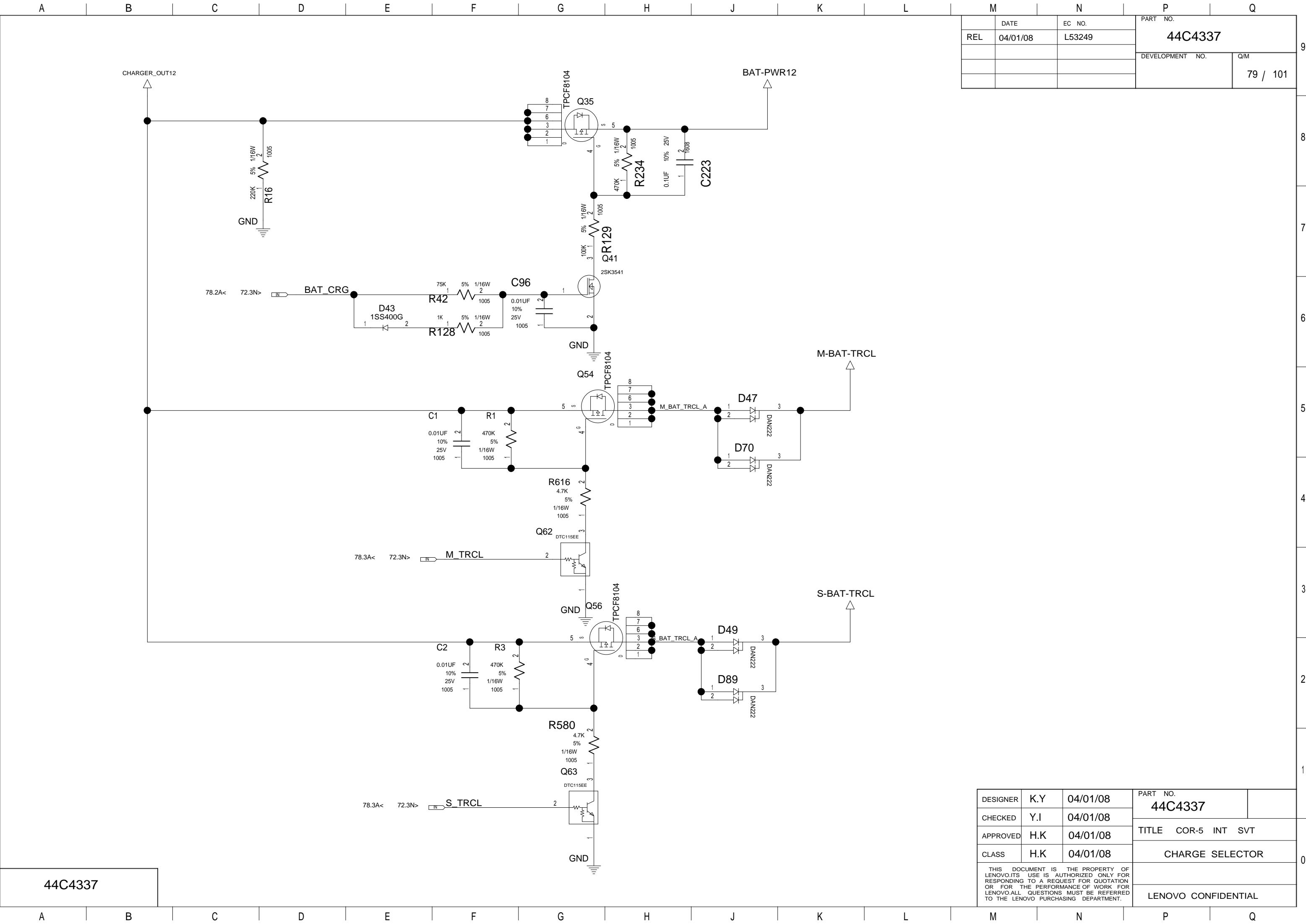


DATE		EC NO.	PART NO.	
REL		04/01/08	L53249	
			DEVELOPMENT NO.	Q/M
				77 / 101

44C4337

DESIGNER	K.Y	04/01/08	PART NO.	
CHECKED	Y.I	04/01/08	44C4337	
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	BATTERY INPUT	
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			LENOVO CONFIDENTIAL	

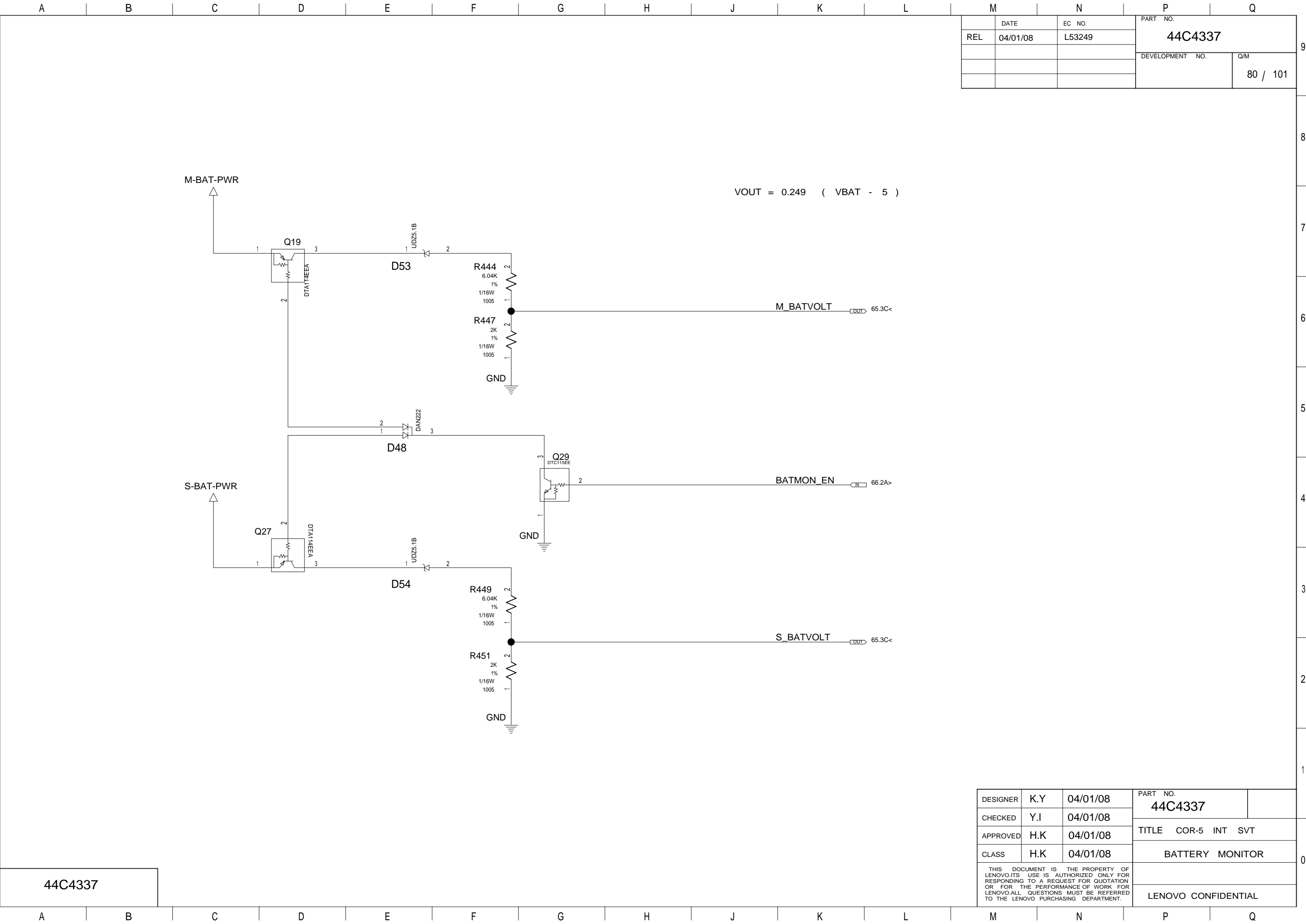




DATE		EC NO.	PART NO. 44C4337	
REL		04/01/08		
			DEVELOPMENT NO.	
			Q/M	
			79 / 101	

44C4337

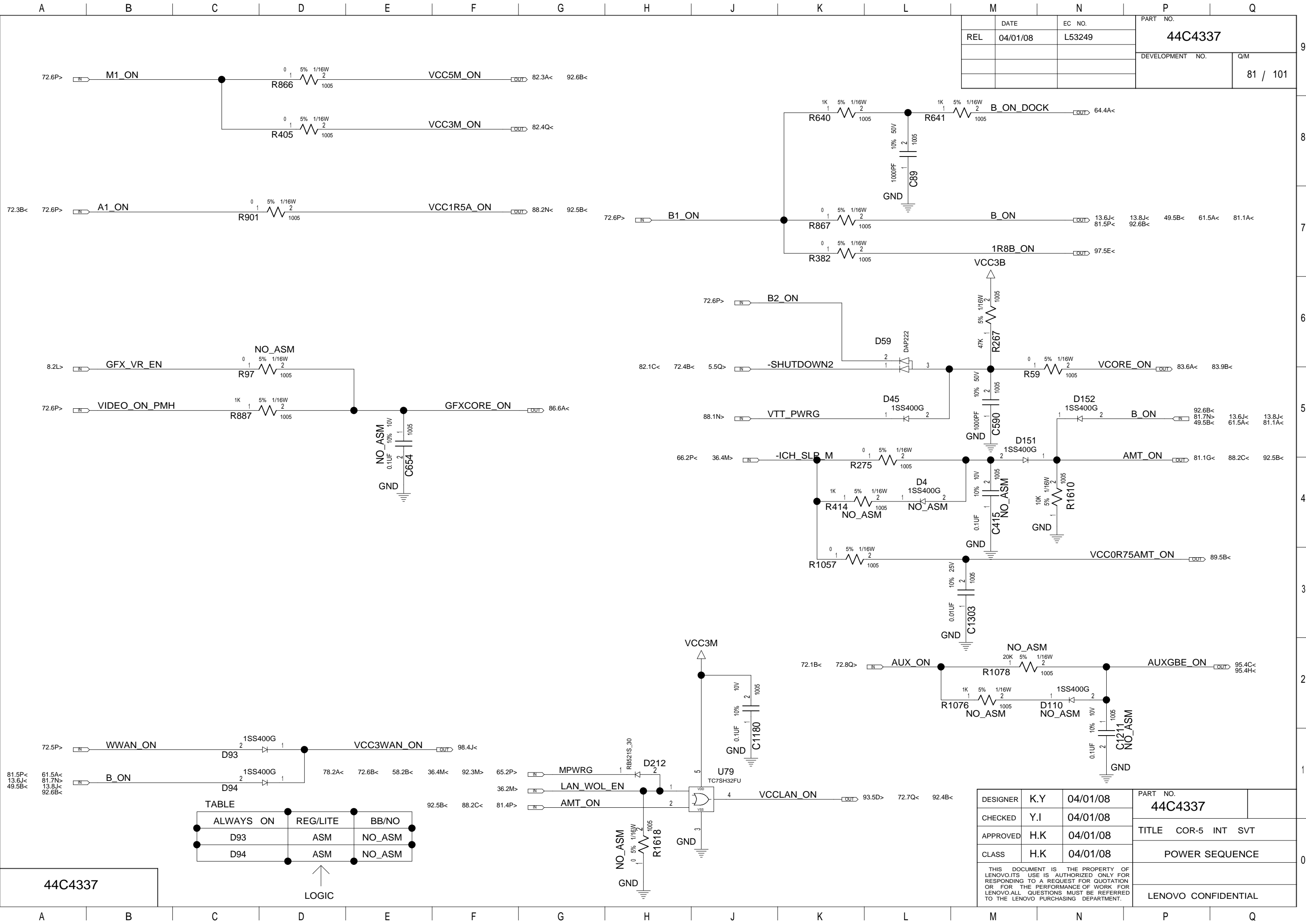
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CHECKED	Y.I	04/01/08		
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	CHARGE SELECTOR	
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M		N		P		Q	
REL		DATE	EC NO.	PART NO. 44C4337			
04/01/08		L53249					
				DEVELOPMENT NO.		Q/M	
						80 / 101	

44C4337

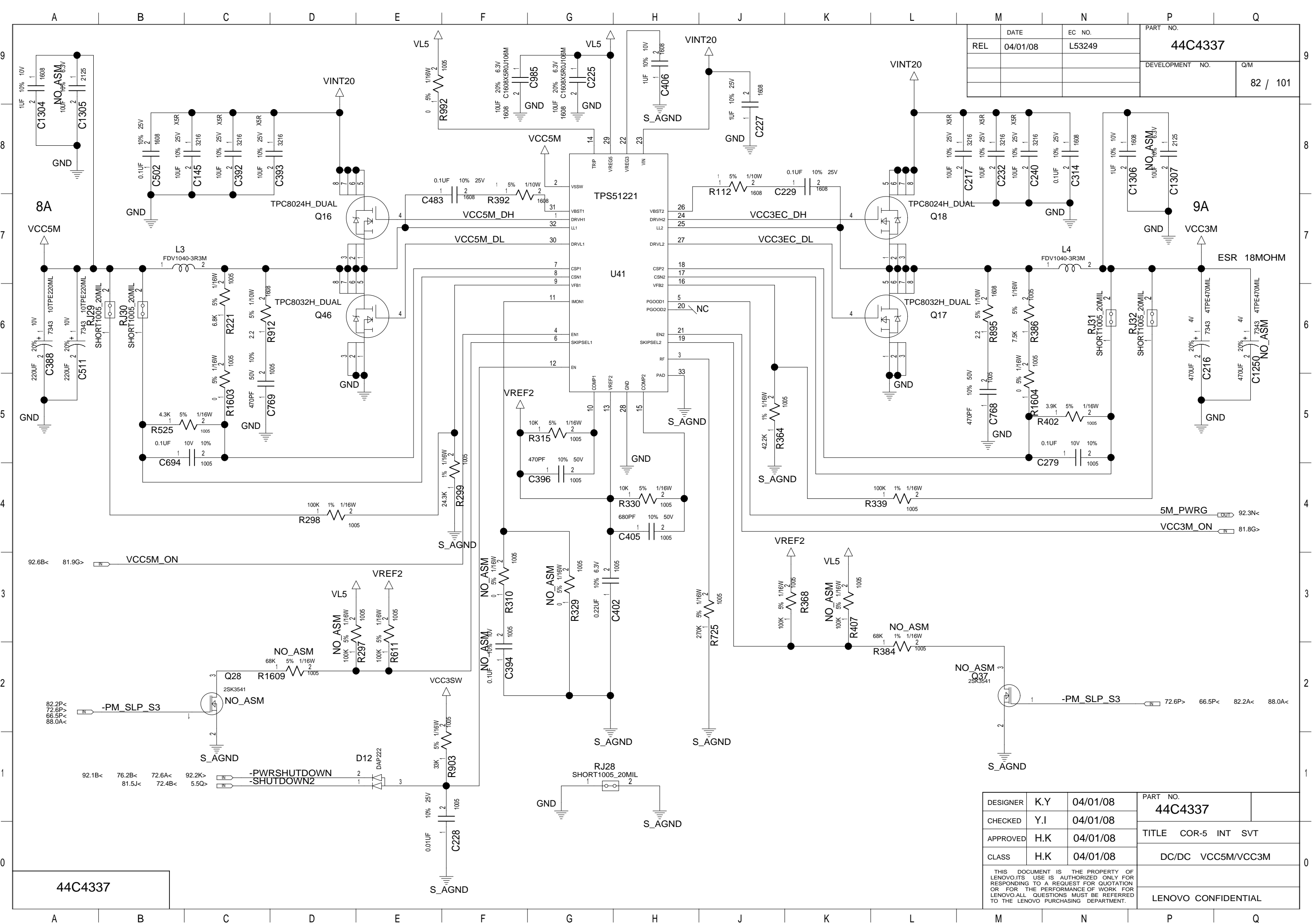
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CHECKED	Y.I	04/01/08			
APPROVED	H.K	04/01/08		TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08		BATTERY MONITOR	
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			LENOVO CONFIDENTIAL		

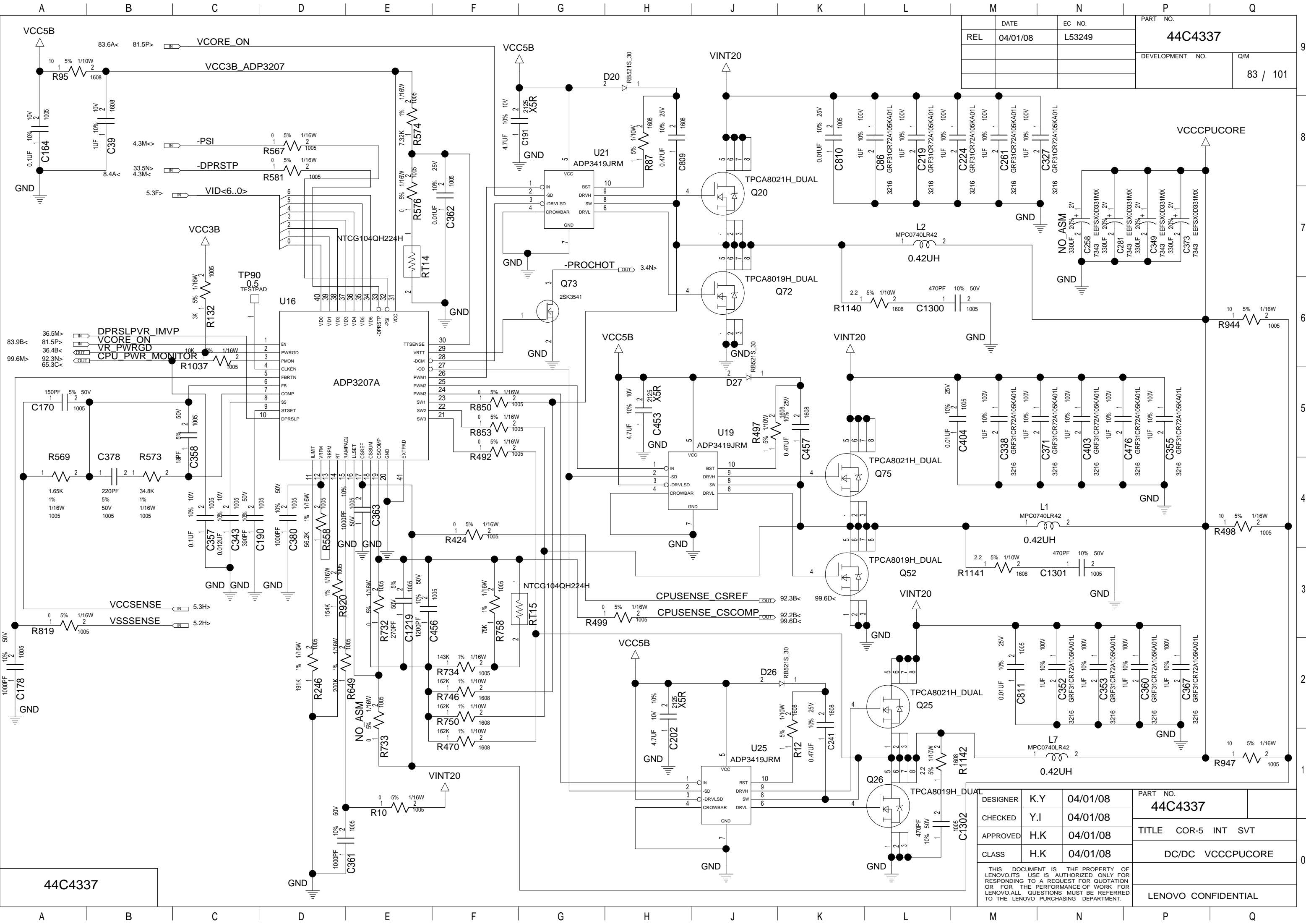


	DATE	EC NO.	PART NO. 44C4337	
REL	04/01/08	L53249		
			DEVELOPMENT NO.	Q/M
				81 / 101

TABLE		
ALWAYS ON	REG/LITE	BB/NO
D93	ASM	NO_ASM
D94	ASM	NO_ASM

DESIGNER	K.Y	04/01/08	PART NO. 44C4337	
CHECKED	Y.I	04/01/08		
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	POWER SEQUENCE	
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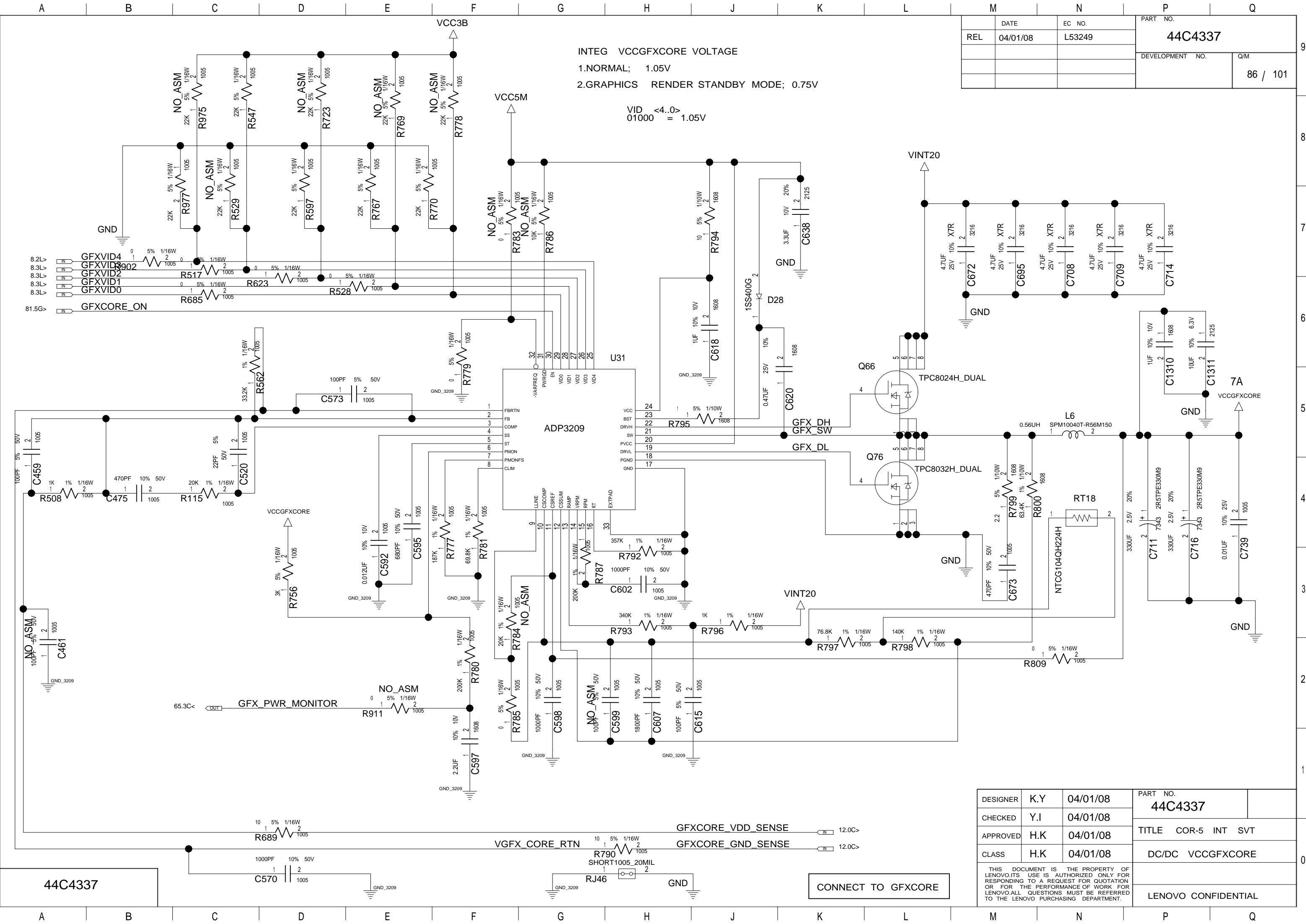


44C4337

REL		DATE	EC NO.	PART NO.	
		04/01/08	L53249	44C4337	
				DEVELOPMENT NO.	Q/M
				83 / 101	

DESIGNER	K.Y	04/01/08	PART NO.	
CHECKED	Y.I	04/01/08	44C4337	
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	DC/DC VCCCPUCORE	
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[illegible]



INTEG VCCGFXCORE VOLTAGE
1.NORMAL; 1.05V
2.GRAPHICS RENDER STANDBY MODE; 0.75V

VID <4.0>
01000 = 1.05V

DATE		EC NO.	PART NO.	
REL		04/01/08	L53249	
			DEVELOPMENT NO.	Q/M
				86 / 101

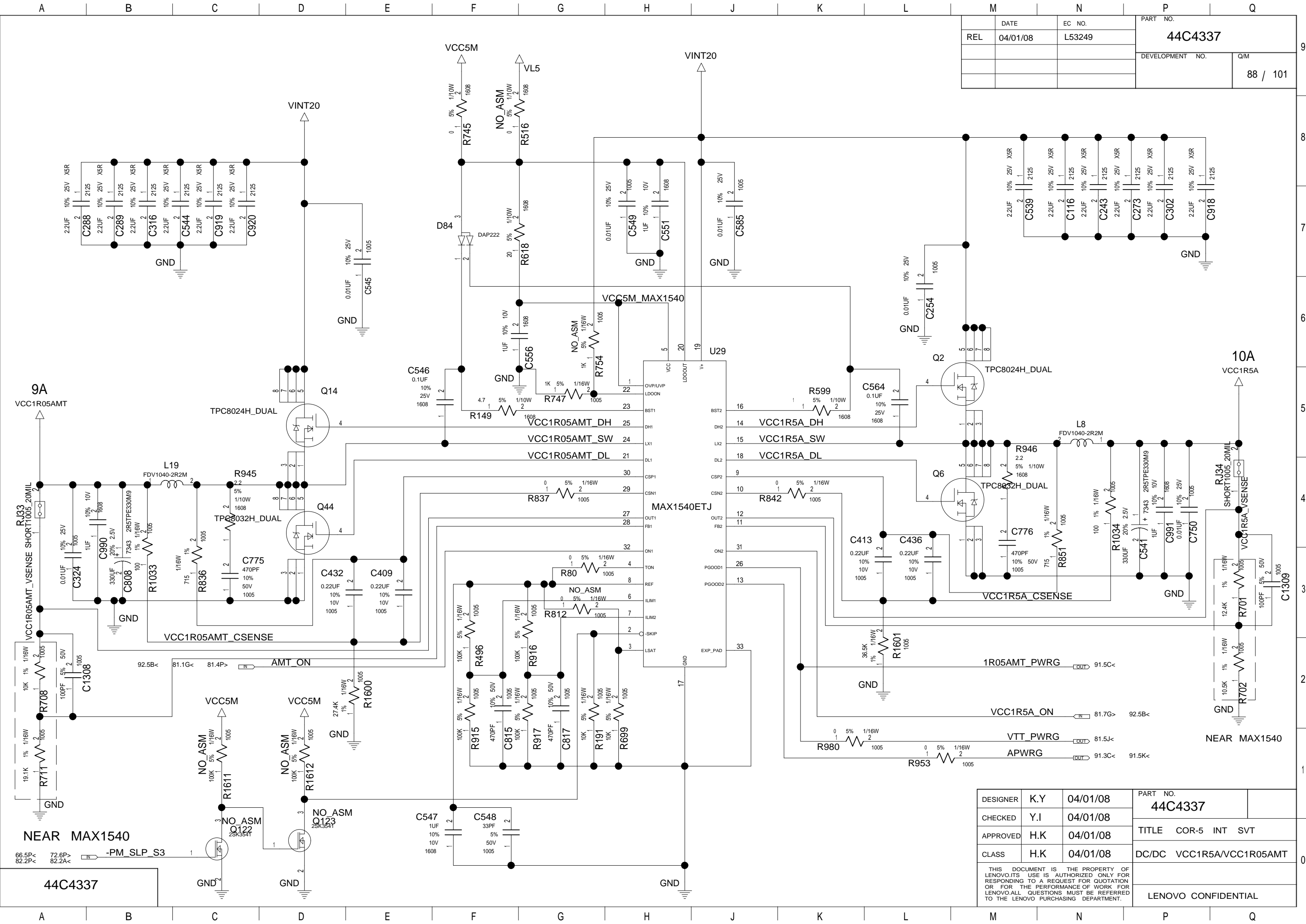
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CHECKED	Y.I	04/01/08	44C4337	
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	DC/DC VCCGFXCORE	
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44C4337

CONNECT TO GFXCORE

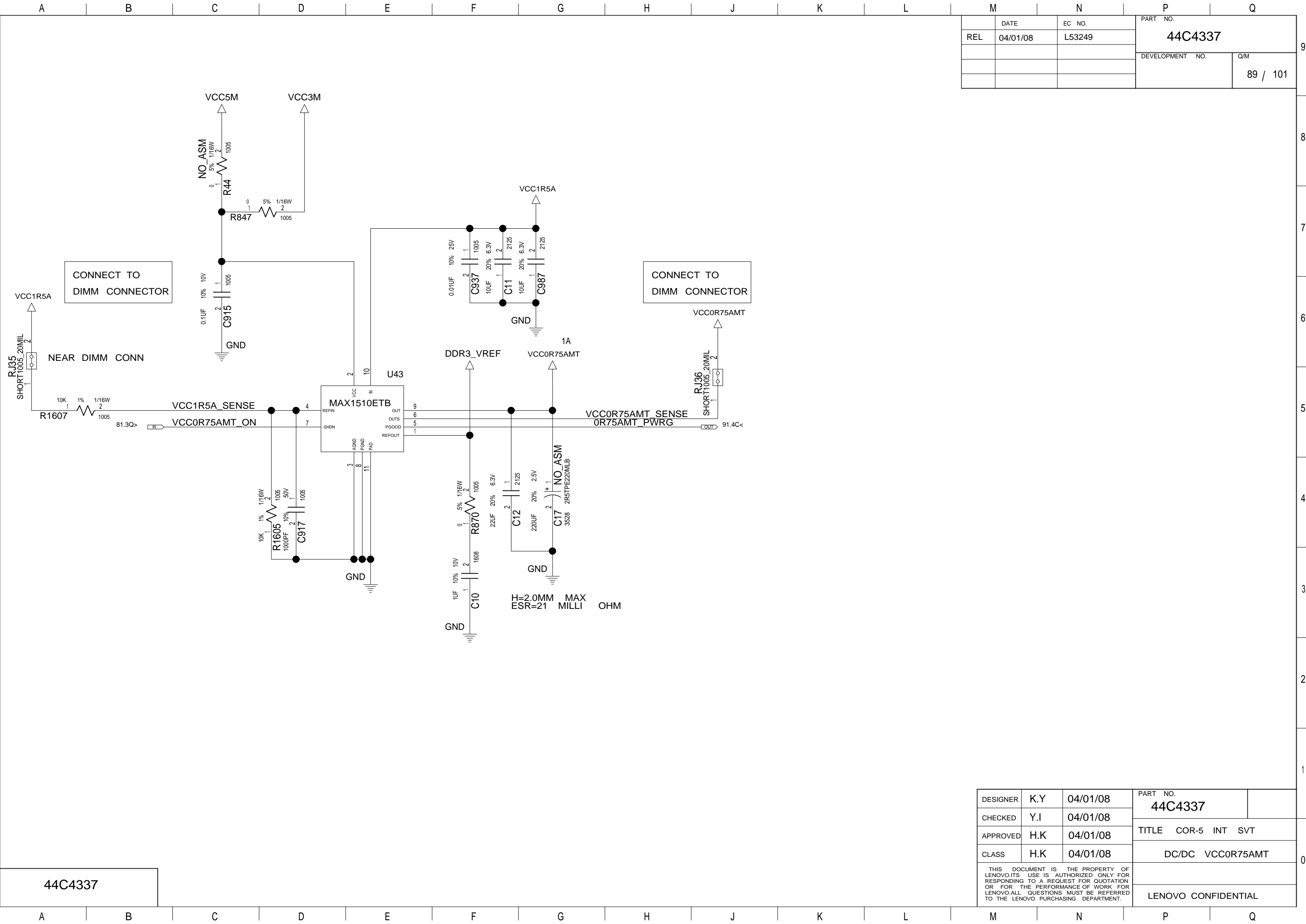
A		B		C		D		E		F		G		H		J		K		L		M		N		P		Q					
																								DATE		EC NO.		PART NO.					
																								REL		04/01/08		L53249		44C4337			
																												DEVELOPMENT NO.		Q/M			
																														87 / 101			

<



DATE		EC NO.	PART NO.	
REL		04/01/08	L53249	
			DEVELOPMENT NO.	Q/M
				88 / 101

DESIGNER	K.Y	04/01/08	PART NO.	
CHECKED	Y.I	04/01/08	44C4337	
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	DC/DC VCC1R5A/VCC1R05AMT	
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		PART NO.	
REL		44C4337	
DATE		EC NO.	
04/01/08		L53249	

DESIGNER	K.Y	04/01/08	PART NO.	
CHECKED	Y.I	04/01/08	44C4337	
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	DC/DC VCC0R75AMT	
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44C4337

A		B		C		D		E		F		G		H		J		K		L		M		N		P		Q					
																								DATE		EC NO.		PART NO.					
																								REL		04/01/08		L53249		44C4337			
																												DEVELOPMENT NO.		Q/M			
																														90 / 101			

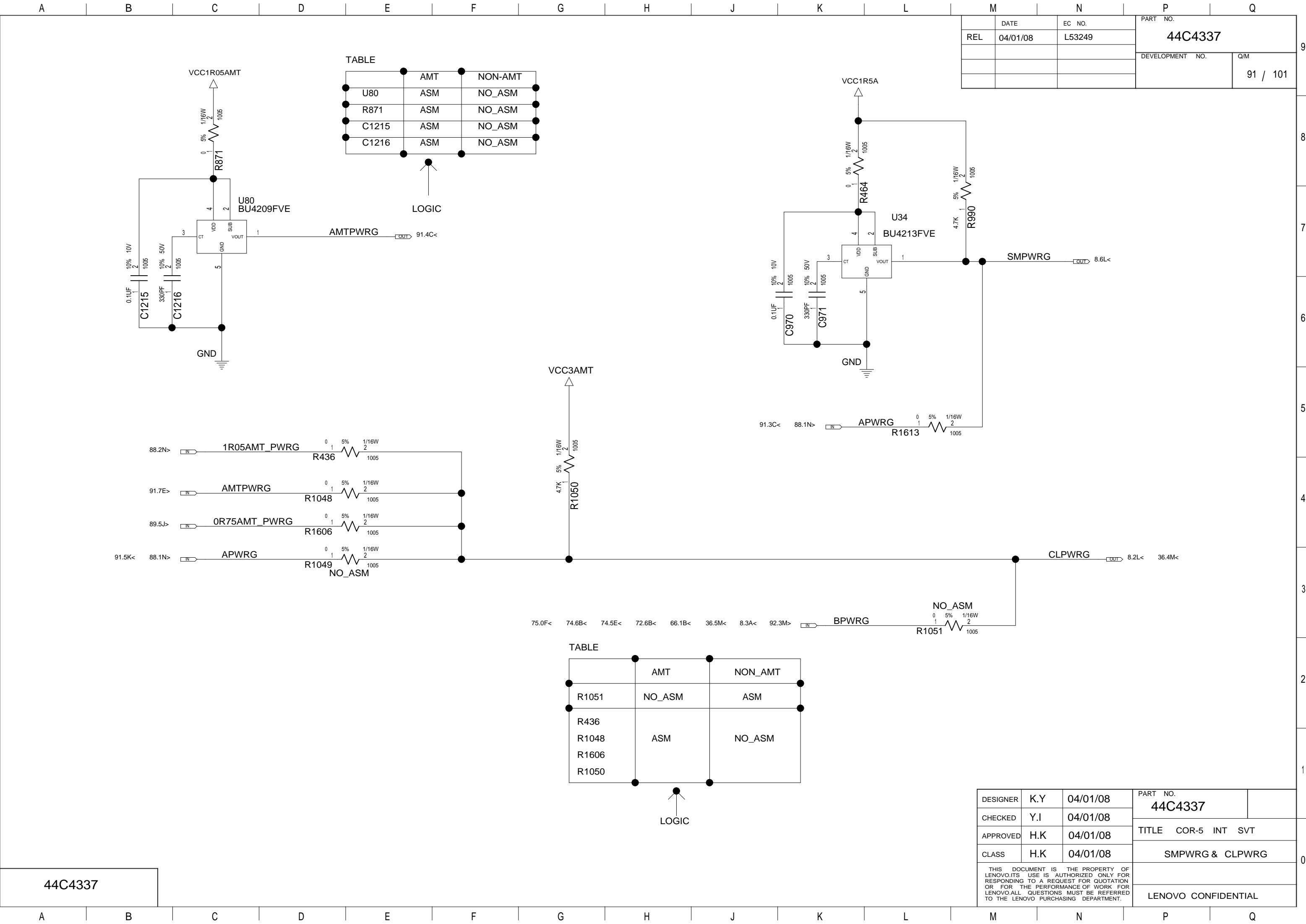


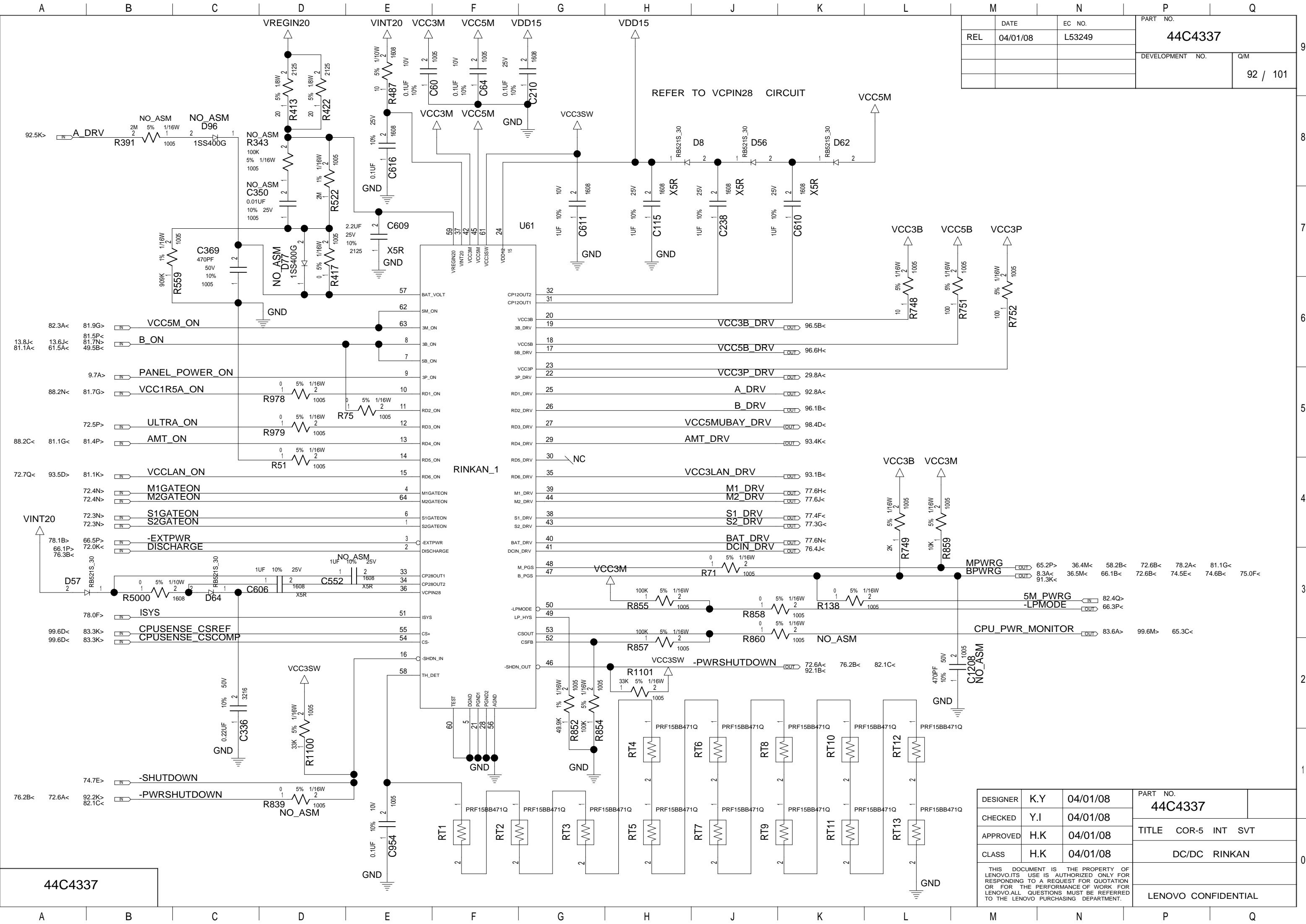
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	AMT	NON-AMT
U80	ASM	NO_ASM
R871	ASM	NO_ASM
C1215	ASM	NO_ASM
C1216	ASM	NO_ASM

TABLE		
	AMT	NON_AMT
R1051	NO_ASM	ASM
R436	ASM	NO_ASM
R1048	ASM	NO_ASM
R1606	ASM	NO_ASM
R1050	ASM	NO_ASM

REL		DATE	04/01/08	EC NO.	L53249	PART NO.		44C4337	
						DEVELOPMENT NO.		Q/M	
								91 / 101	

DESIGNER	K.Y	04/01/08	PART NO.		
CHECKED	Y.I	04/01/08	44C4337		
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT		
CLASS	H.K	04/01/08	SMPWRG & CLPWRG		
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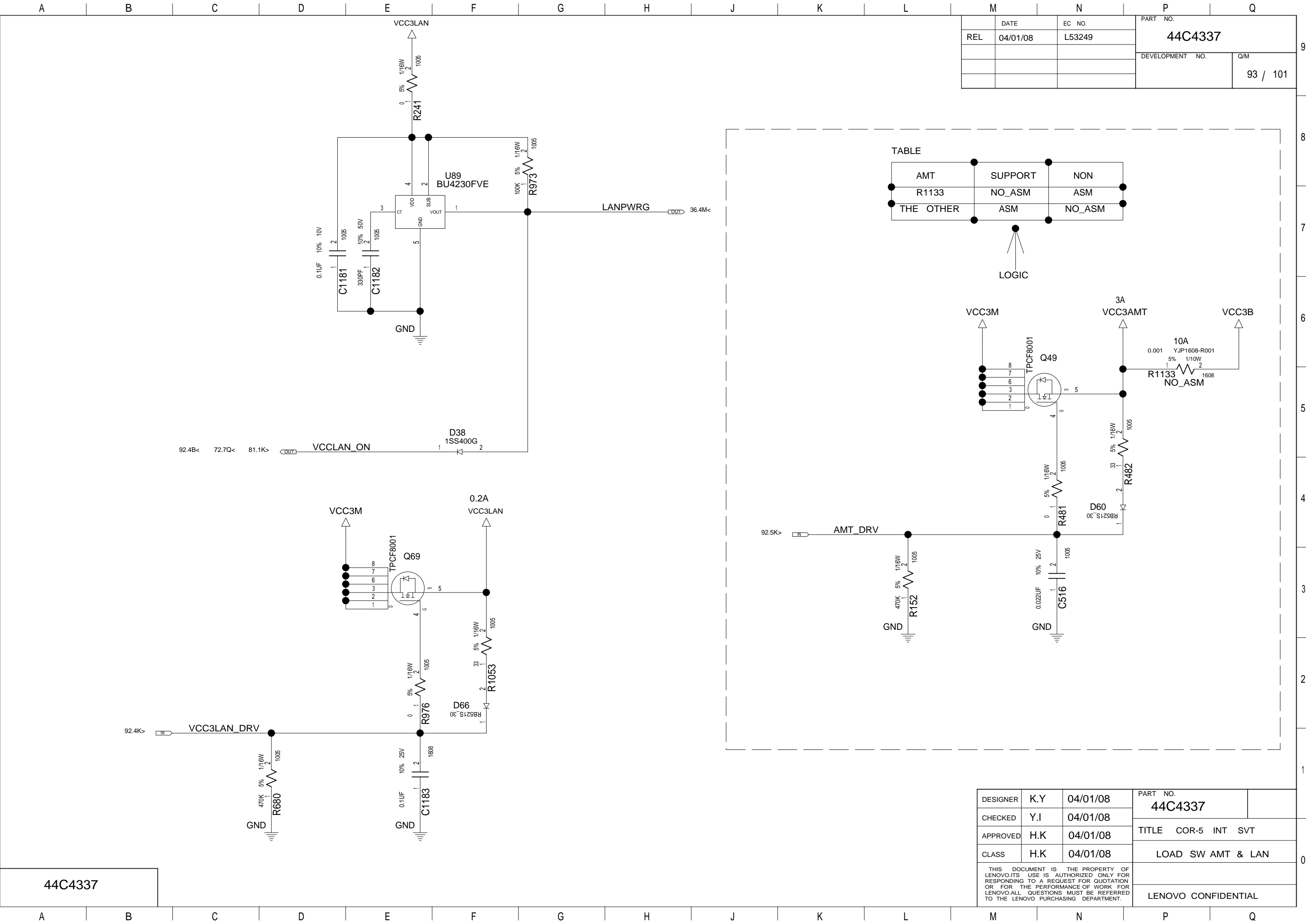
44C4337



DATE		EC NO.	PART NO.	
REL		04/01/08	L53249	
			DEVELOPMENT NO.	Q/M
				92 / 101

44C4337

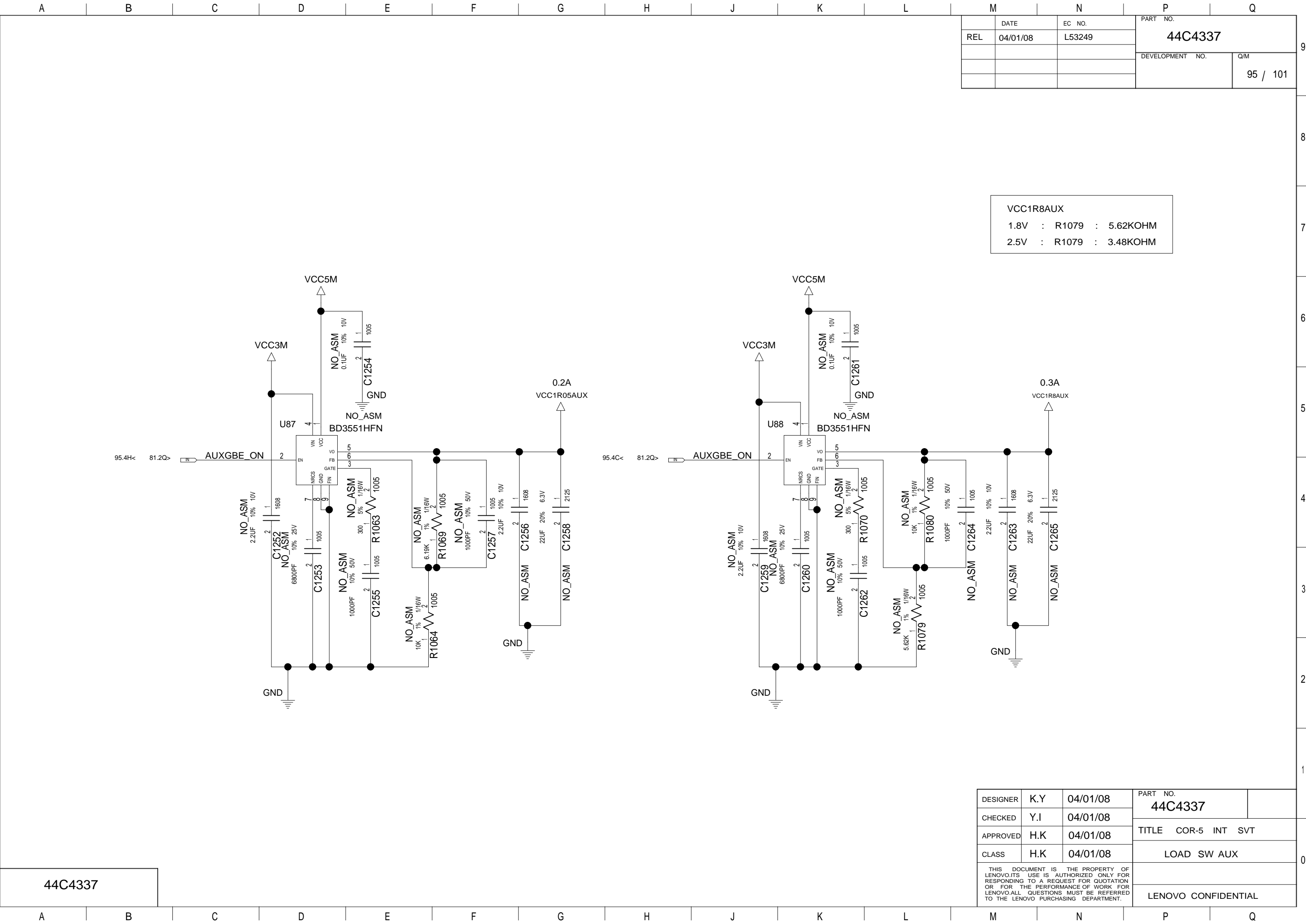
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CHECKED	Y.I	04/01/08	44C4337	
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	DC/DC RINKAN	
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REL		DATE	04/01/08	EC NO.	L53249	PART NO.		44C4337	
						DEVELOPMENT NO.		Q/M	
								93 / 101	

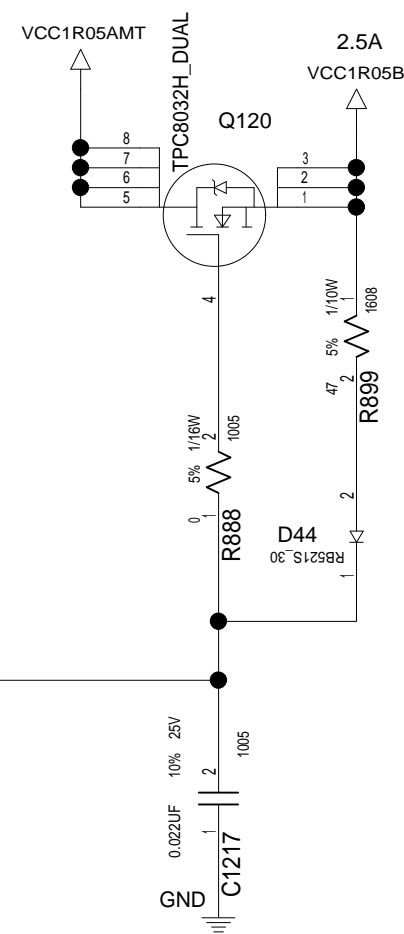
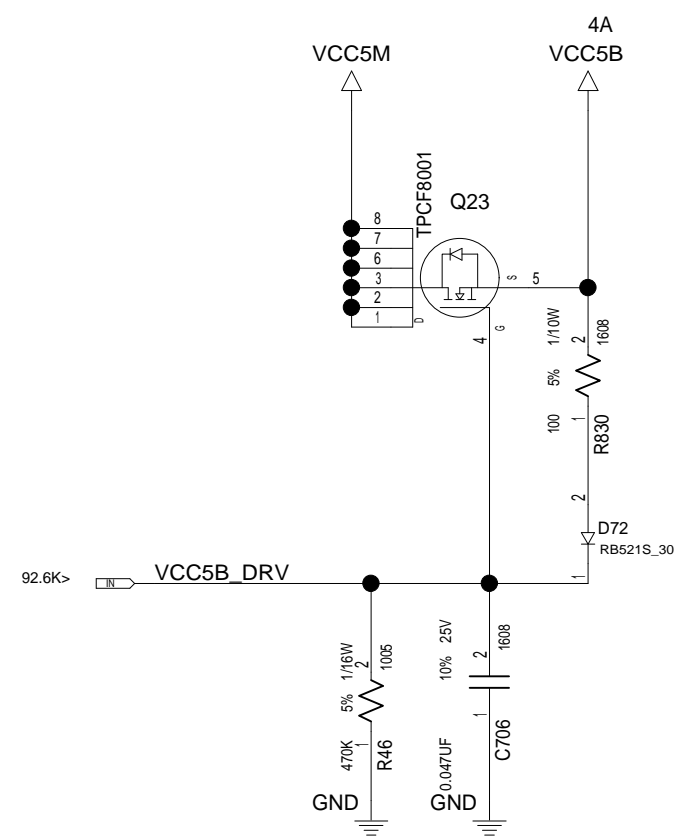
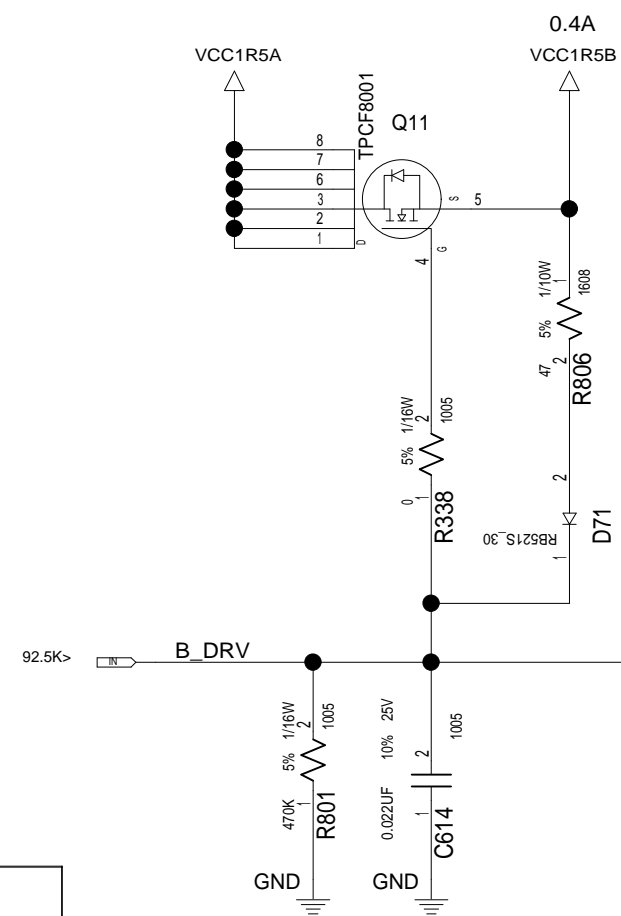
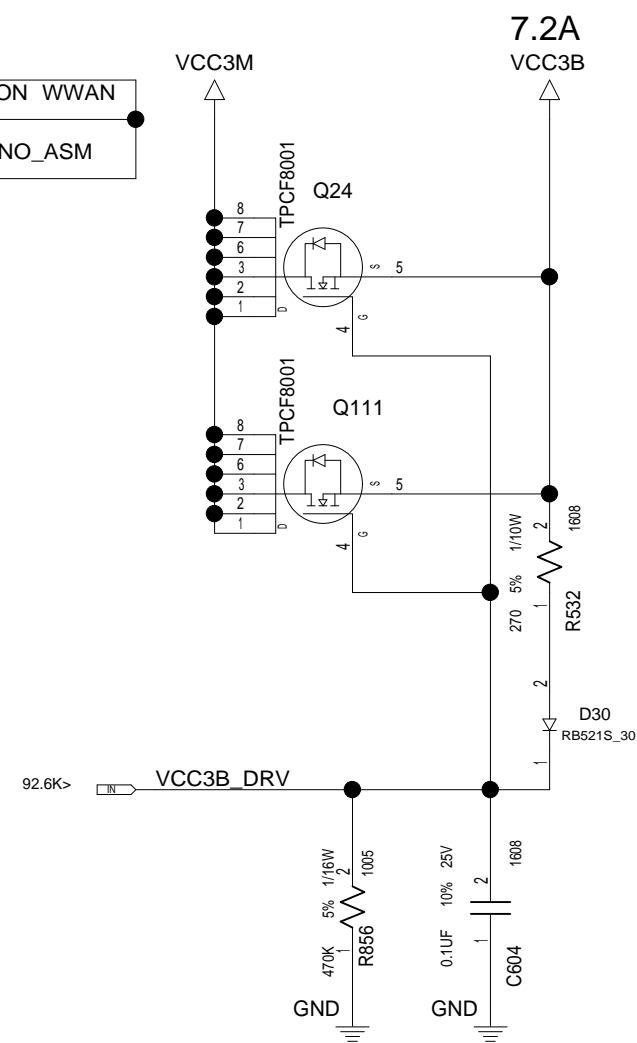
DESIGNER	K.Y	04/01/08	PART NO. 44C4337		
CHECKED	Y.I	04/01/08			
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT		
CLASS	H.K	04/01/08	LOAD SW AMT & LAN		
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A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q			
													DATE	EC NO.	PART NO.		
												REL	04/01/08	L53249	44C4337		
															DEVELOPMENT NO.		Q/M
														94 / 101			
CHECKED	Y.I	04/01/08	44C4337														
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT														
CLASS	H.K	04/01/08	BLANK														
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			LENOVO CONFIDENTIAL														
44C4337																	
A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q			



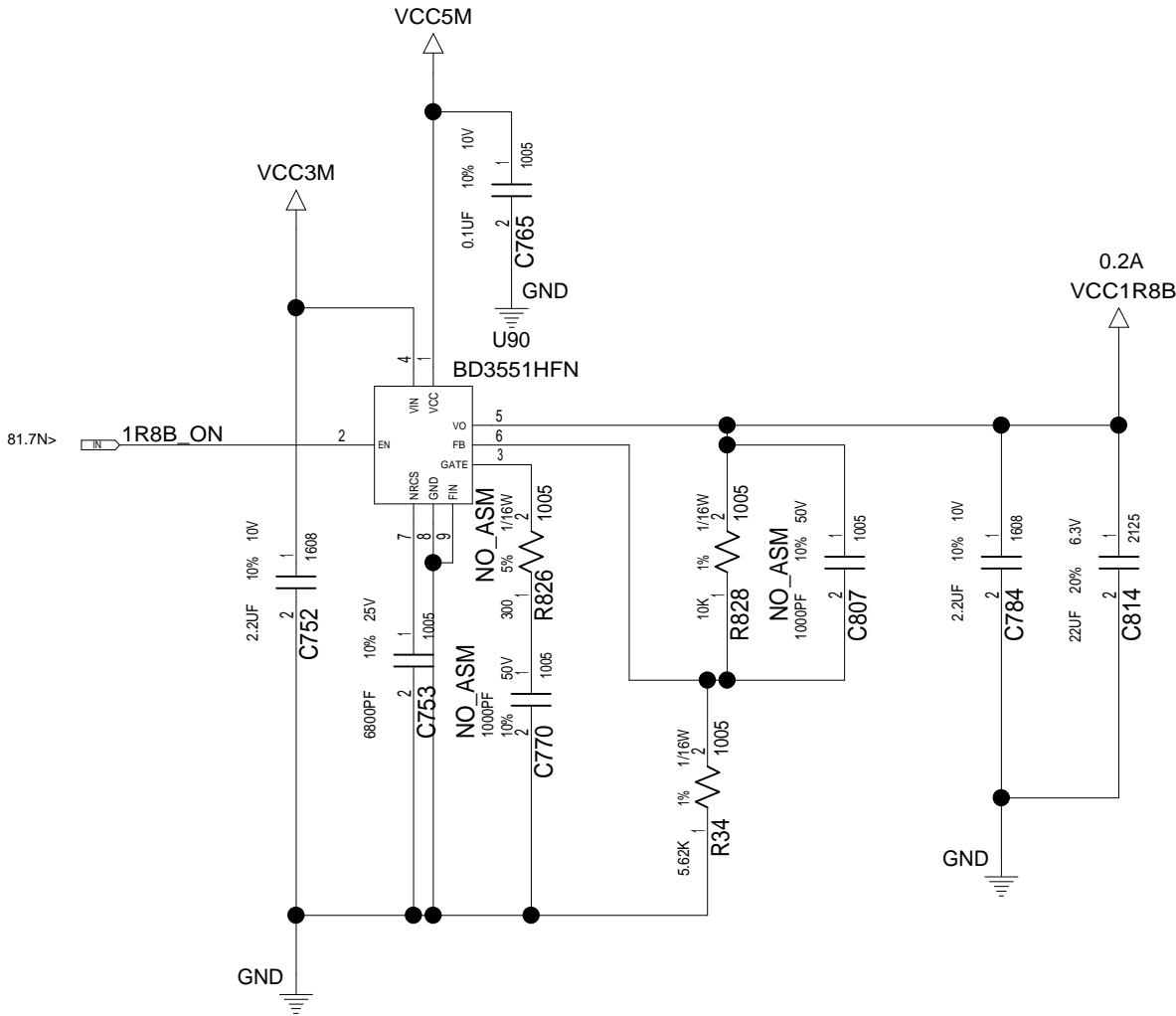
VCC1R8AUX		
1.8V	: R1079	: 5.62KOHM
2.5V	: R1079	: 3.48KOHM

DESIGNER	K.Y	04/01/08	PART NO. 44C4337		
CHECKED	Y.I	04/01/08			
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT		
CLASS	H.K	04/01/08	LOAD SW AUX		
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			LENOVO CONFIDENTIAL		

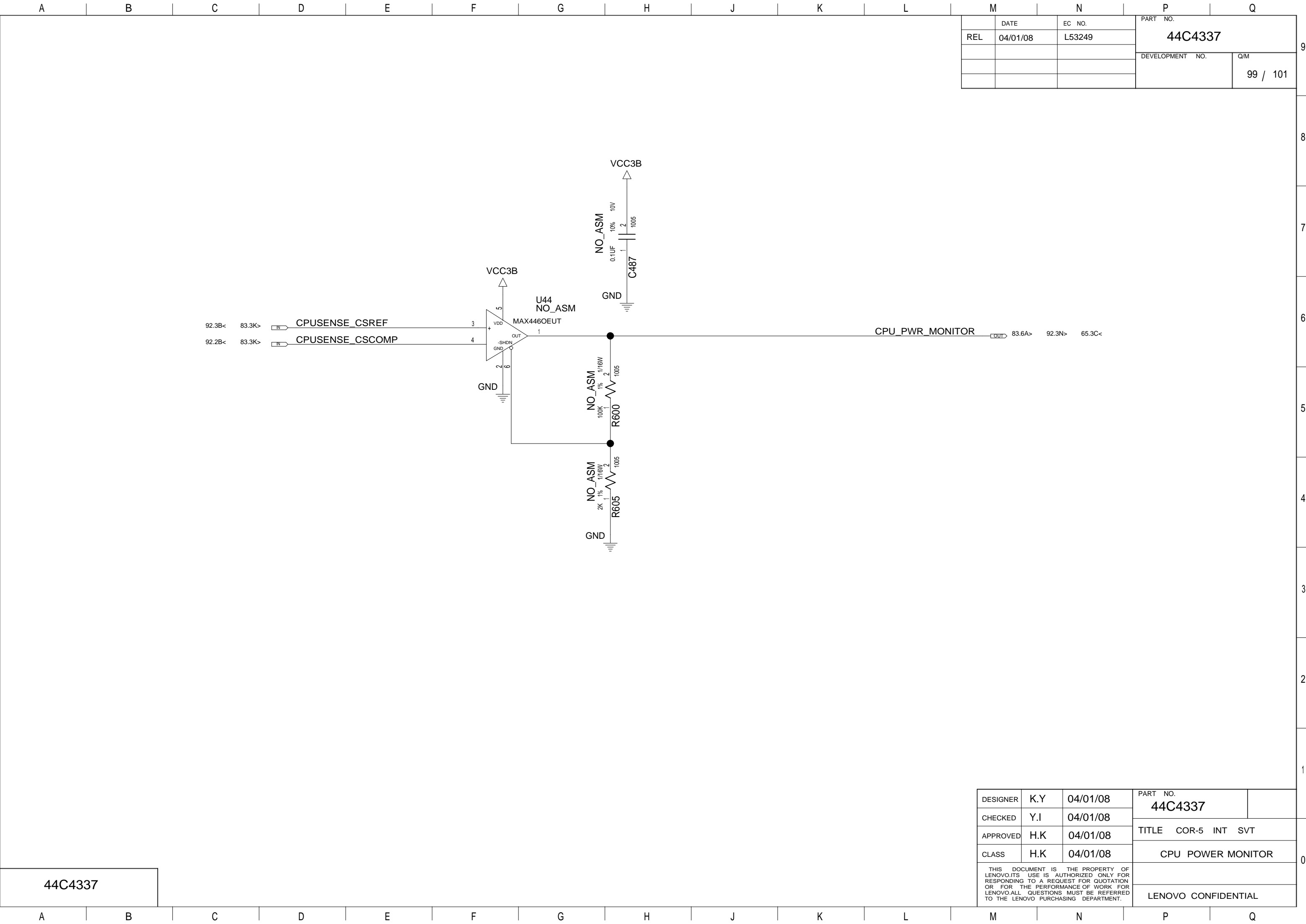


M		N		P		Q	
	DATE	EC NO.		PART NO. <div style="font-size: 2em; font-weight: bold;">44C4337</div>			
REL	04/01/08	L53249					
				DEVELOPMENT NO.		Q/M <div style="font-size: 1.5em;">96 / 101</div>	

DESIGNER	K.Y	04/01/08	PART NO. 44C4337	
CHECKED	Y.I	04/01/08		
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	LOAD SW B	
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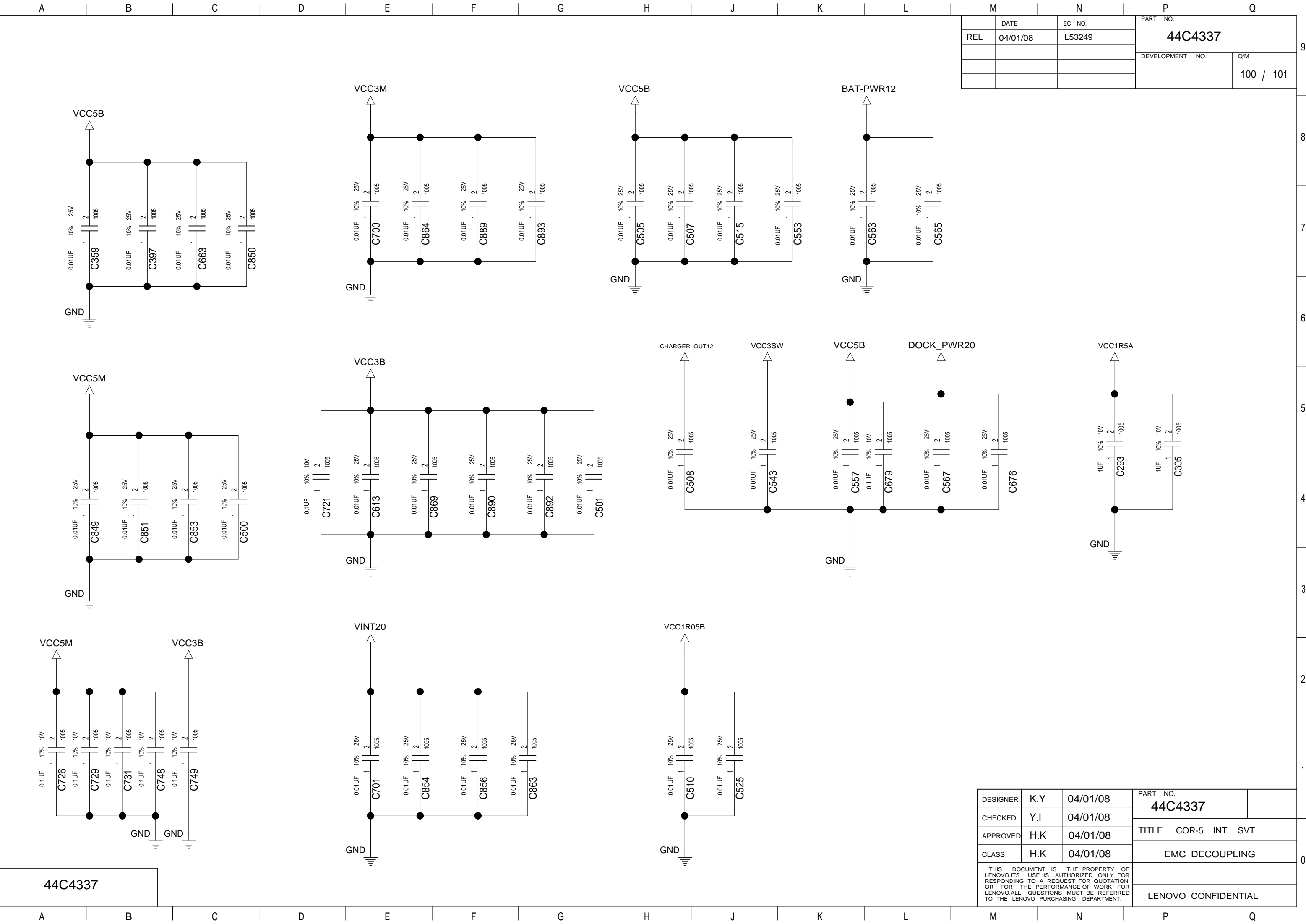
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CHECKED	Y.I	04/01/08	44C4337	
APPROVED	H.K	04/01/08	TITLE	COR-5 INT SVT
CLASS	H.K	04/01/08		DC/DC VCC1R8B
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		PART NO.	
REL		44C4337	
DATE		L53249	
EC NO.		DEVELOPMENT NO.	
		Q/M	
		99 / 101	

44C4337

DESIGNER	K.Y	04/01/08	PART NO.	
CHECKED	Y.I	04/01/08	44C4337	
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	CPU POWER MONITOR	
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	DATE	EC NO.	PART NO. 44C4337	
REL	04/01/08	L53249		
			DEVELOPMENT NO.	Q/M
				100 / 101

DESIGNER	K.Y	04/01/08	PART NO.	
CHECKED	Y.I	04/01/08	44C4337	
APPROVED	H.K	04/01/08	TITLE COR-5 INT SVT	
CLASS	H.K	04/01/08	EMC DECOUPLING	
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