

VER.0.56		9
DEVELOPMENT NO.	Q/M	
		1 / 108

NOZOMI-1 EXT PRE-DV LOGIC SCHEMATICS

NZM1H-0

VER 0.56
SEP/29/2008

BASE LOGIC:COR5D SOVP
VER 6.01
APR/07/2008

- | | | | | | |
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| 91. | MEPW RG | | |
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| 94. | DC/DC | VCC1R1VIDEO & LOAD | SW VIDEO |
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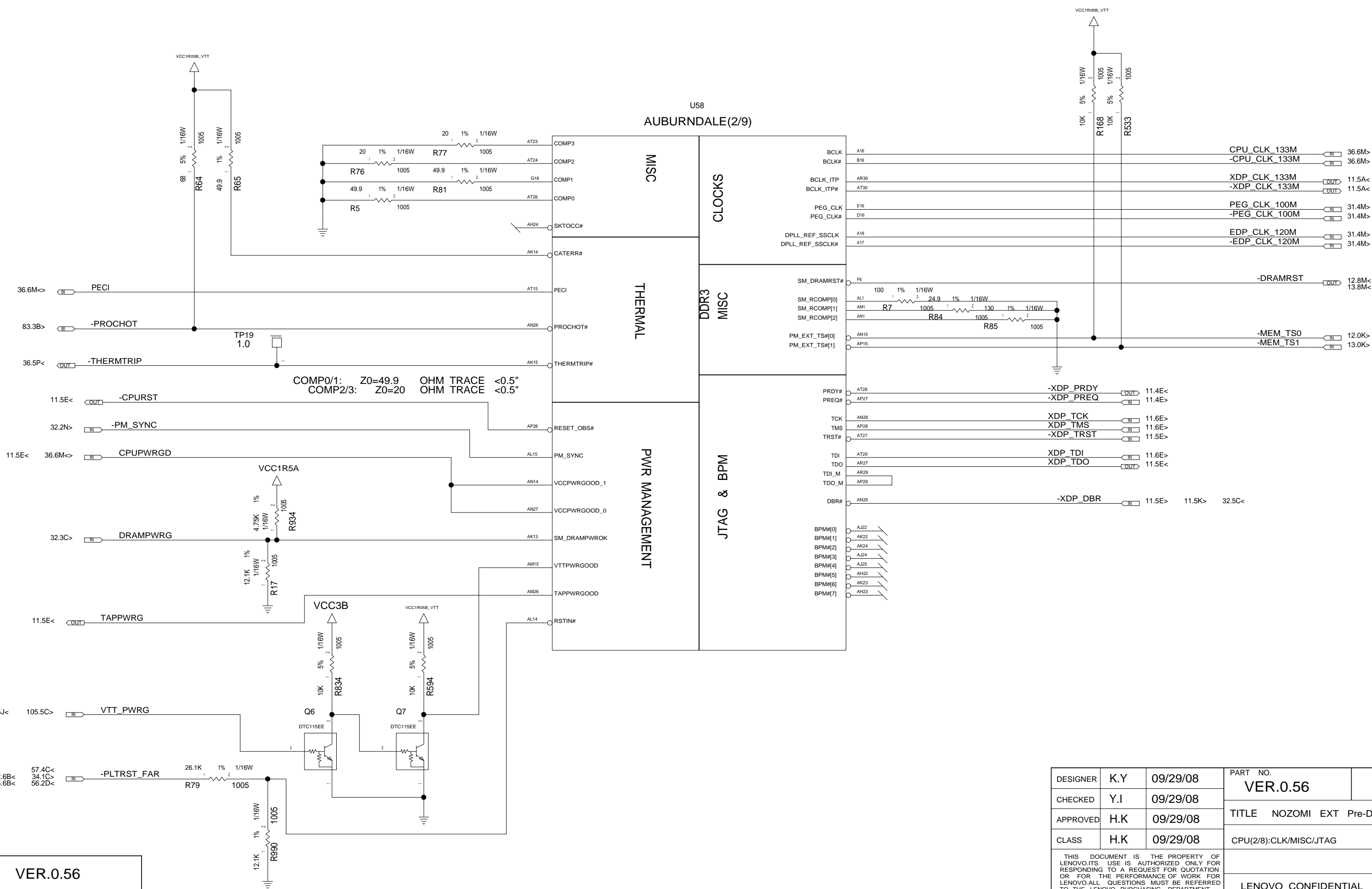
96. LOAD SW B
97. DC/DC VCC1R8B
98. LOAD SW UDAY & WWAN
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100. BLANK
101. PTH FOR SCREW HOLES
102. WPCE787K(1/2)
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104. THINKER-1
105. DC/DC VCC1R05B_VTT
106. DC/DC VCC1R05LAN
107. DC/DC VCC1R5A
108. DC/DC VCC0R75B

DESIGNER	K.Y	09/29/08	PART NO. VER.0.56	
CHECKED	Y.I	09/29/08		
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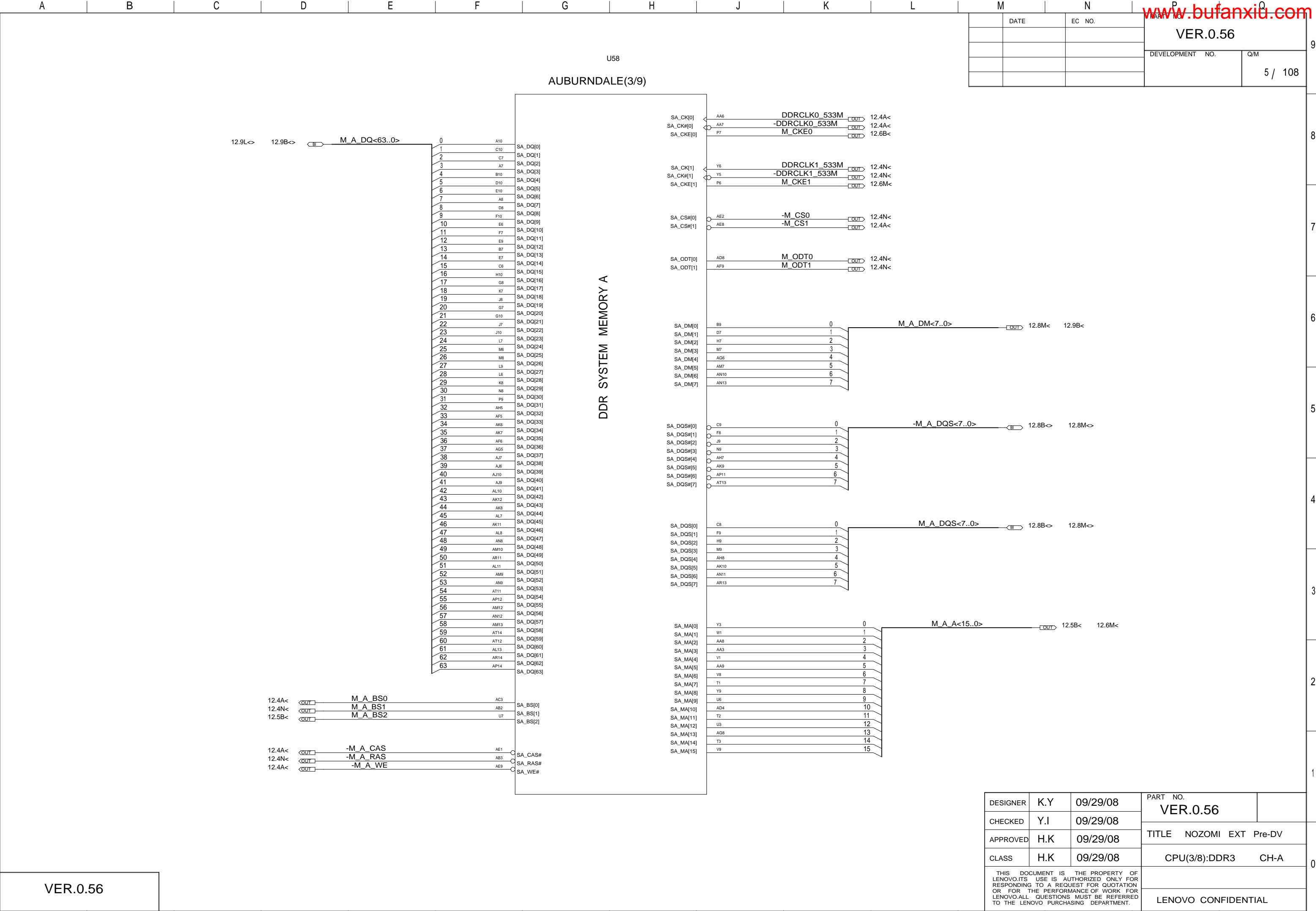
VER.0.56

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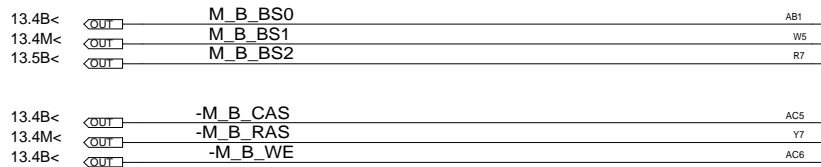
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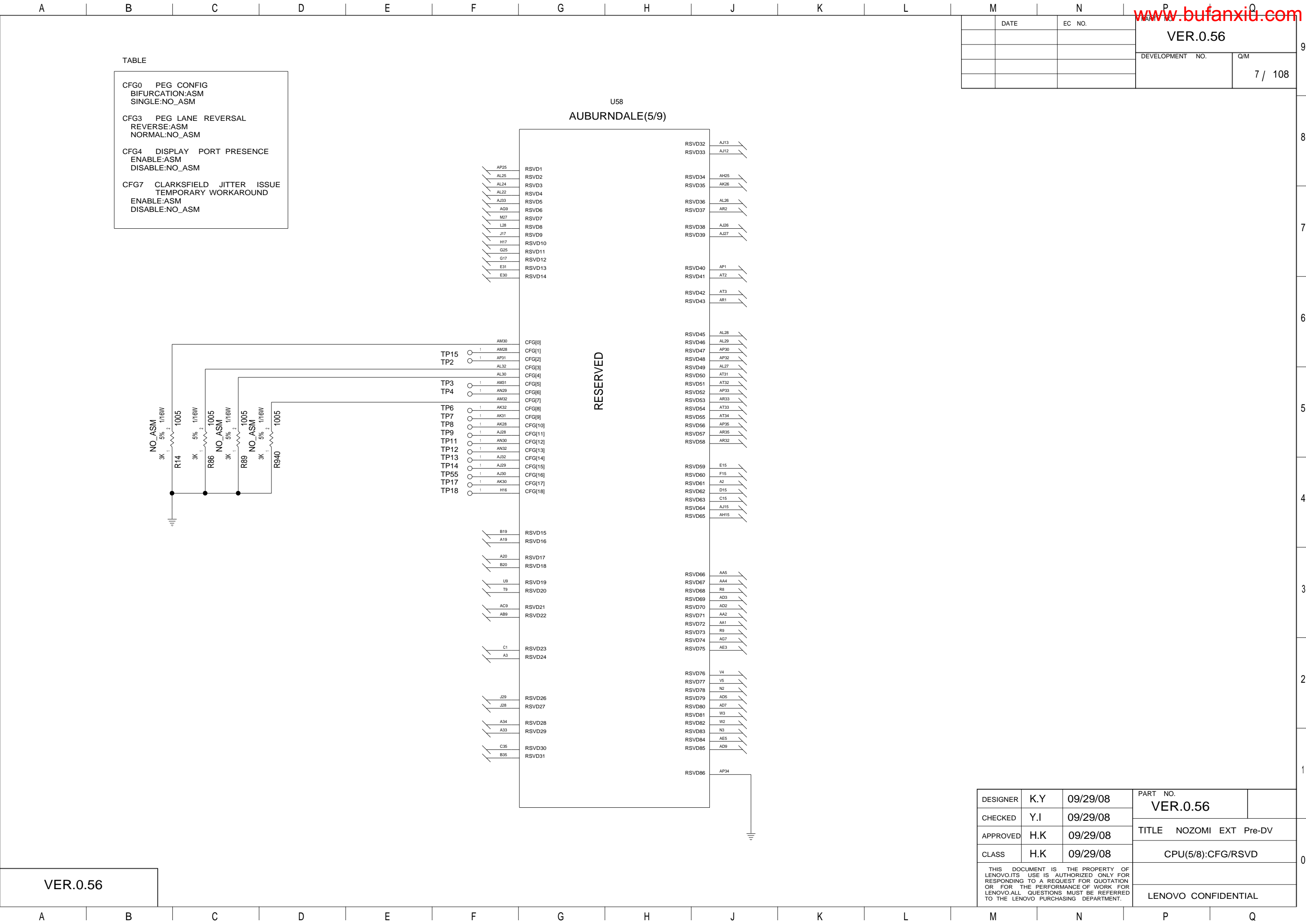


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CLASS	H.K	09/29/08	CPU(3/8):DDR3		CH-A
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CLASS	H.K	09/29/08	CPU(4/8):DDR3	CH-B
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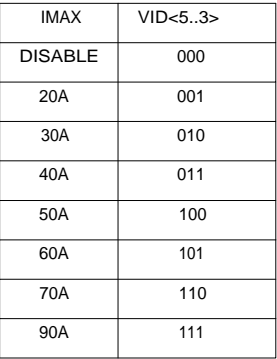
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CFG3	PEG LANE REVERSAL REVERSE:ASM NORMAL:NO_ASM
CFG4	DISPLAY PORT PRESENCE ENABLE:ASM DISABLE:NO_ASM
CFG7	CLARKSFIELD JITTER ISSUE TEMPORARY WORKAROUND ENABLE:ASM DISABLE:NO_ASM



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CLASS	H.K	09/29/08	CPU(5/8):CFG/RSVD		
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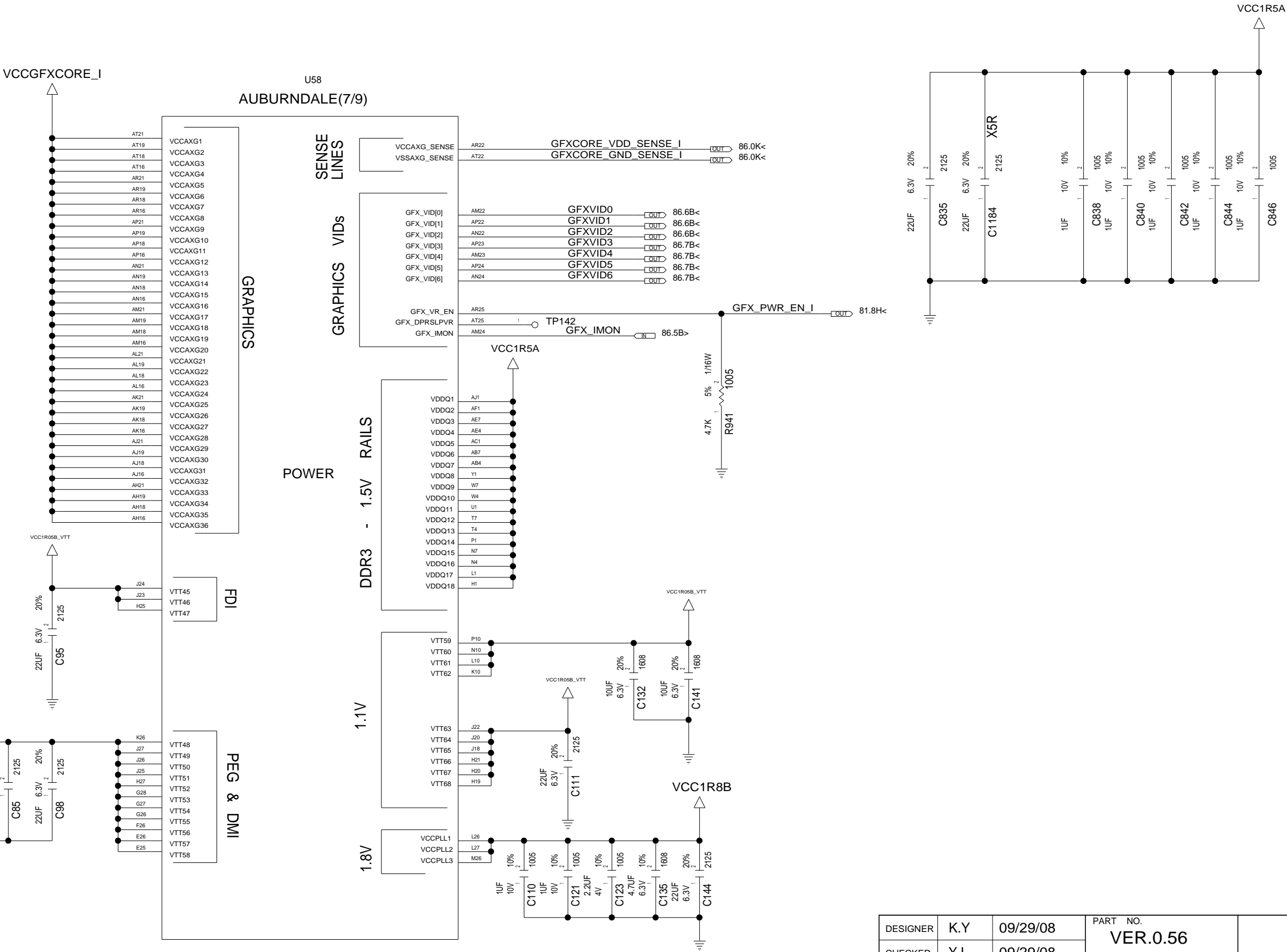
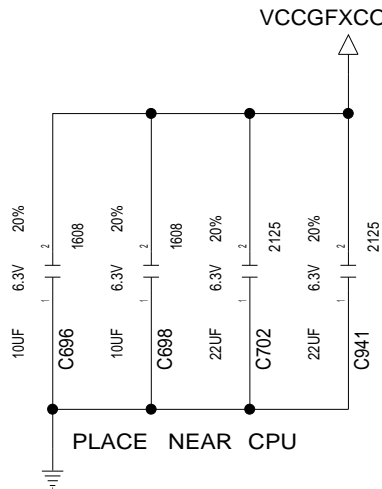
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CLASS	H.K	09/29/08

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TITLE	NOZOMI EXT Pre-DV
CPU(6/8):PWR	
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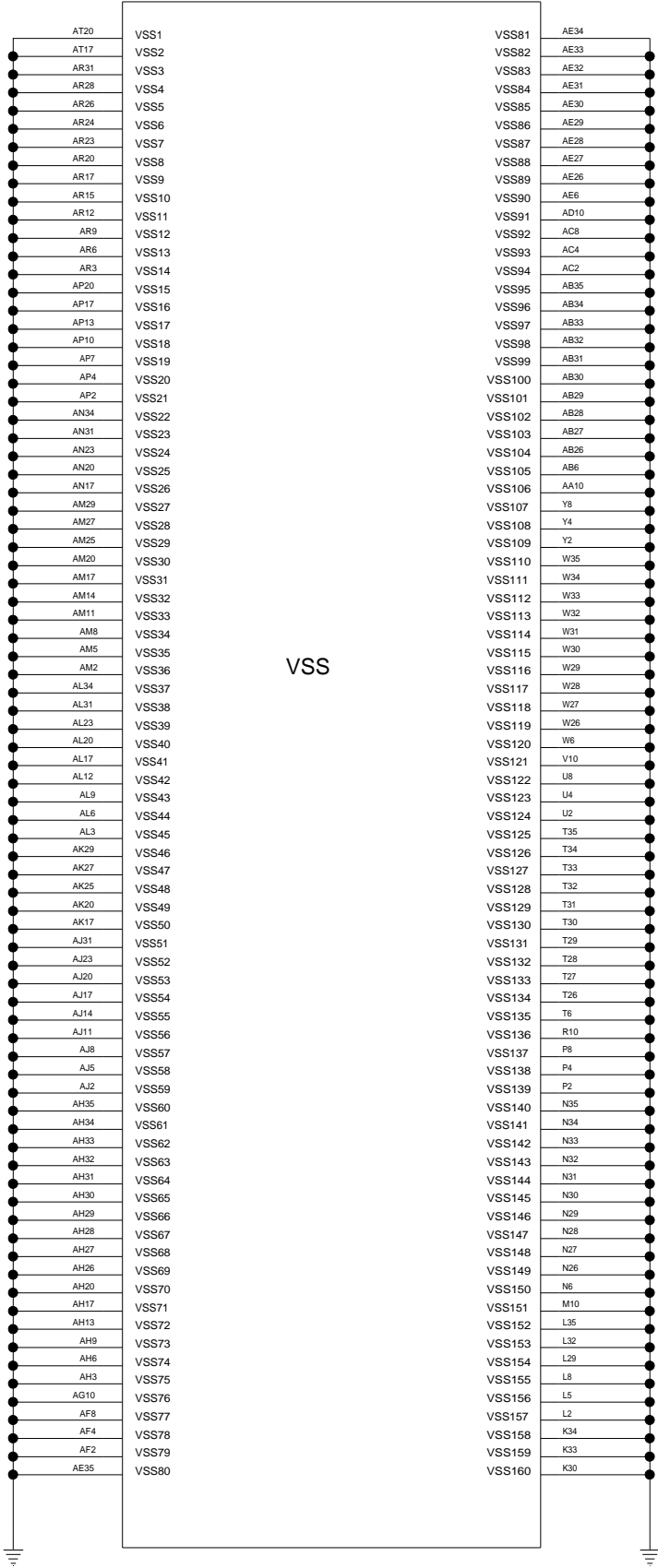
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CLASS	H.K	09/29/08	CPU(7/8):GFX/PWR			
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				DEVELOPMENT NO.	Q/M
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U58
AUBURNDALE(8/9)



U58
AUBURNDALE(9/9)

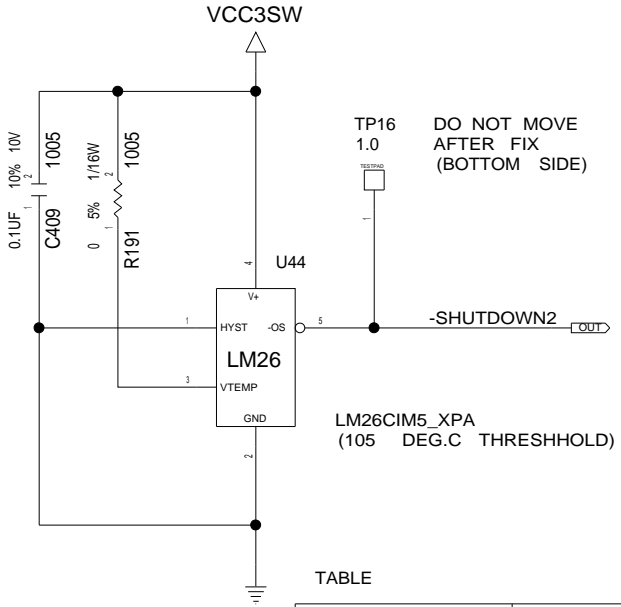
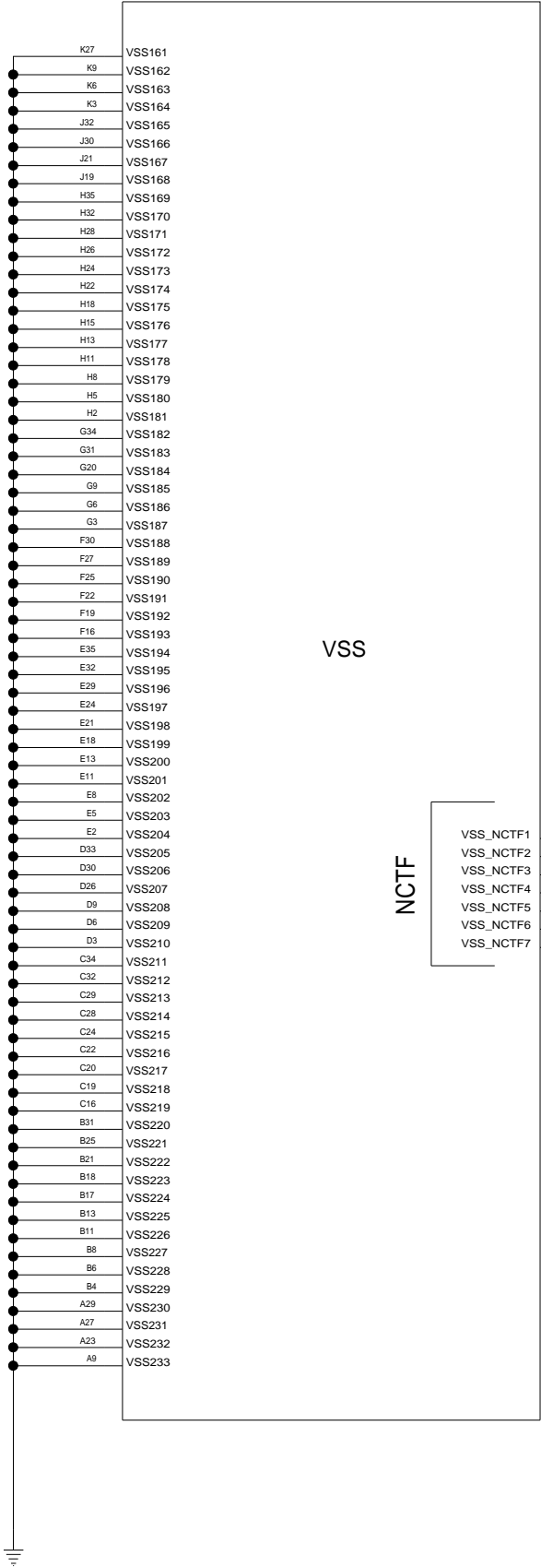
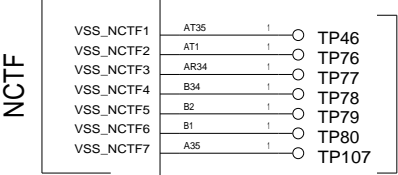


TABLE	
U44	R191
NS LM26	NO_ASM
MAXIM MAX6519	
MAXIM MAX6501	ASM
ADI ADT6501	

LOGIC

FOR SOLDER CRACK DETECTION



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CLASS	H.K	09/29/08	CPU(8/8):GND	
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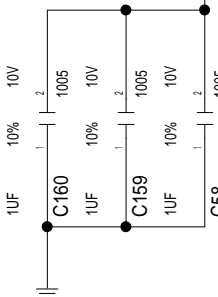


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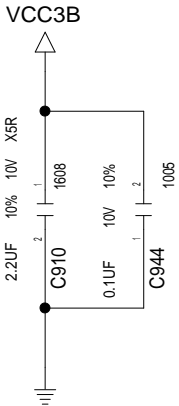
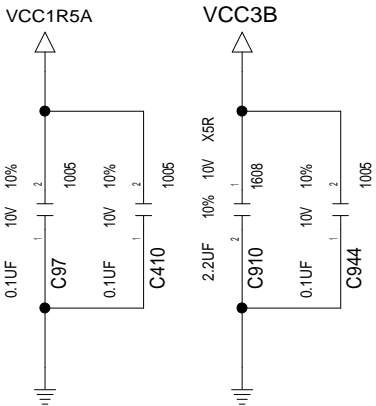


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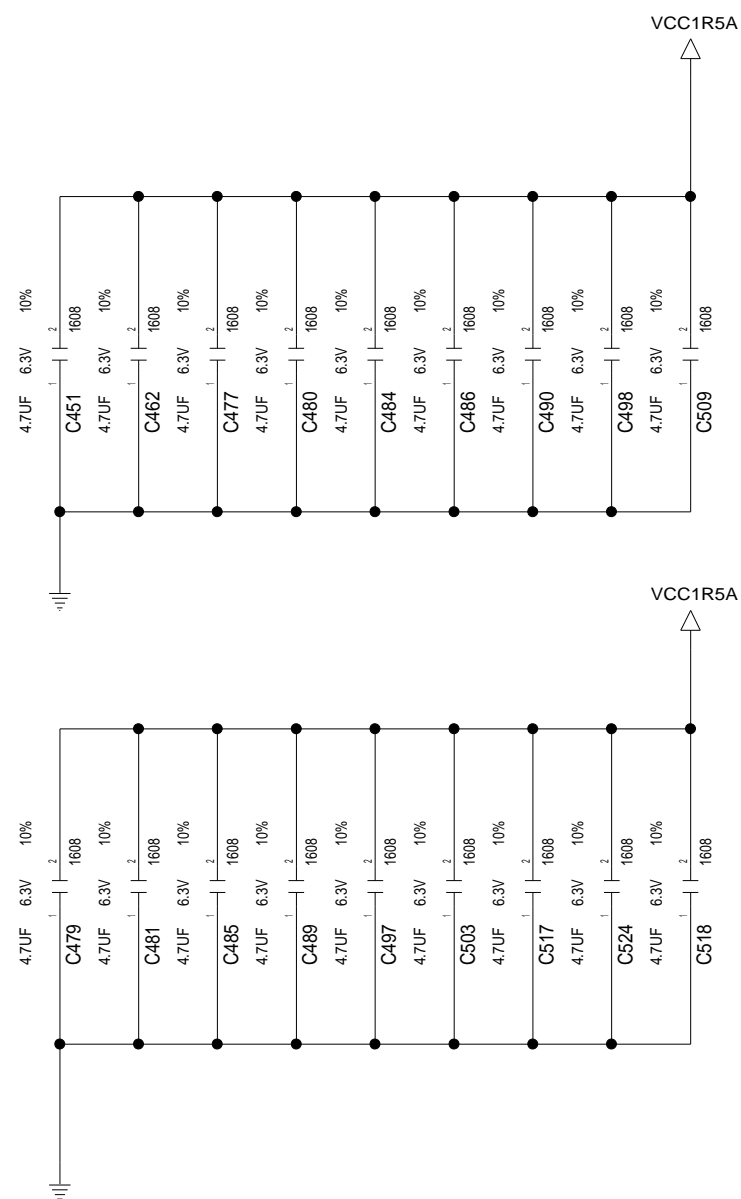
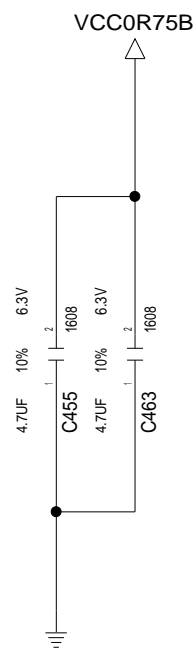
PART NO.	
VER.0.56	
TITLE	NOZOMI EXT Pre-DV
DDR3 SO DIMM	CHANNEL-B
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PLACE 1UF NEAR VCC1R5A PIN.



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DATE	EC NO.	www.bufoanxiu.com VER.0.56	
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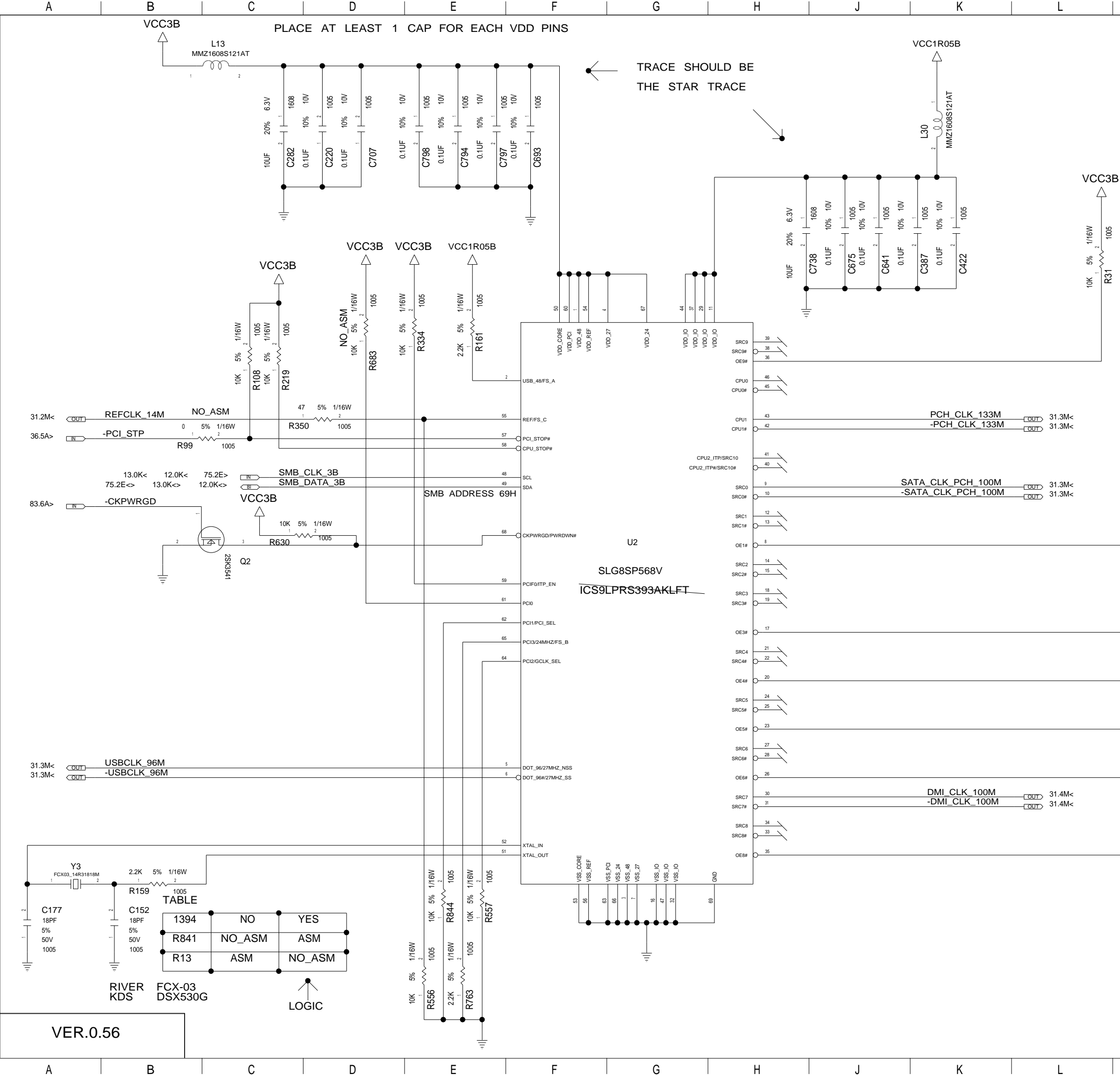
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DATE		EC NO.		VER.0.56			
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TABLE

SRC#	OE#	DEVICE
0		MCC
1	OE#1	EXPRESS CARD
2		CPU_PEG
3	OE#3	WLAN
4	OE#4	WWAN
5	OE#5	GBE
6	OE#6	WUSB
7		PCH_DMI
8	OE#8	SATA
9	OE#9	EXT GFX
10		ITP

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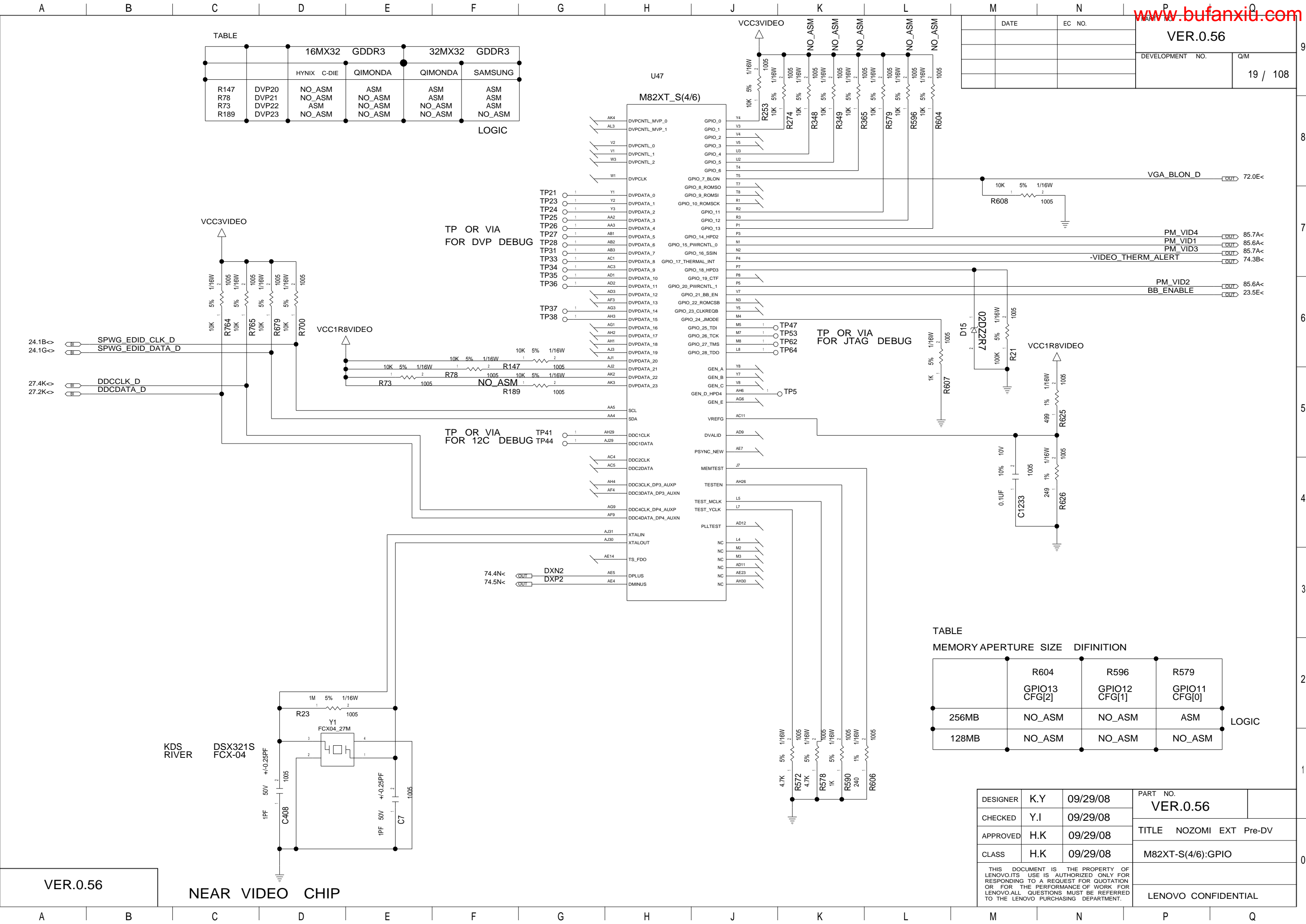


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CLASS	H.K	09/29/08		M82XT-S(3/6):VRAM
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TABLE					
		16MX32	GDDR3	32MX32	GDDR3
		HYNIX	C-DIE	QIMONDA	QIMONDA
		QIMONDA	SAMSUNG		
R147	DVP20	NO_ASM	ASM	ASM	ASM
R78	DVP21	NO_ASM	NO_ASM	ASM	ASM
R73	DVP22	ASM	NO_ASM	NO_ASM	ASM
R189	DVP23	NO_ASM	NO_ASM	NO_ASM	NO_ASM

LOGIC

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		DEVELOPMENT NO.	Q/M
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TP OR VIA FOR DVP DEBUG

TP OR VIA FOR JTAG DEBUG

TP OR VIA FOR 12C DEBUG

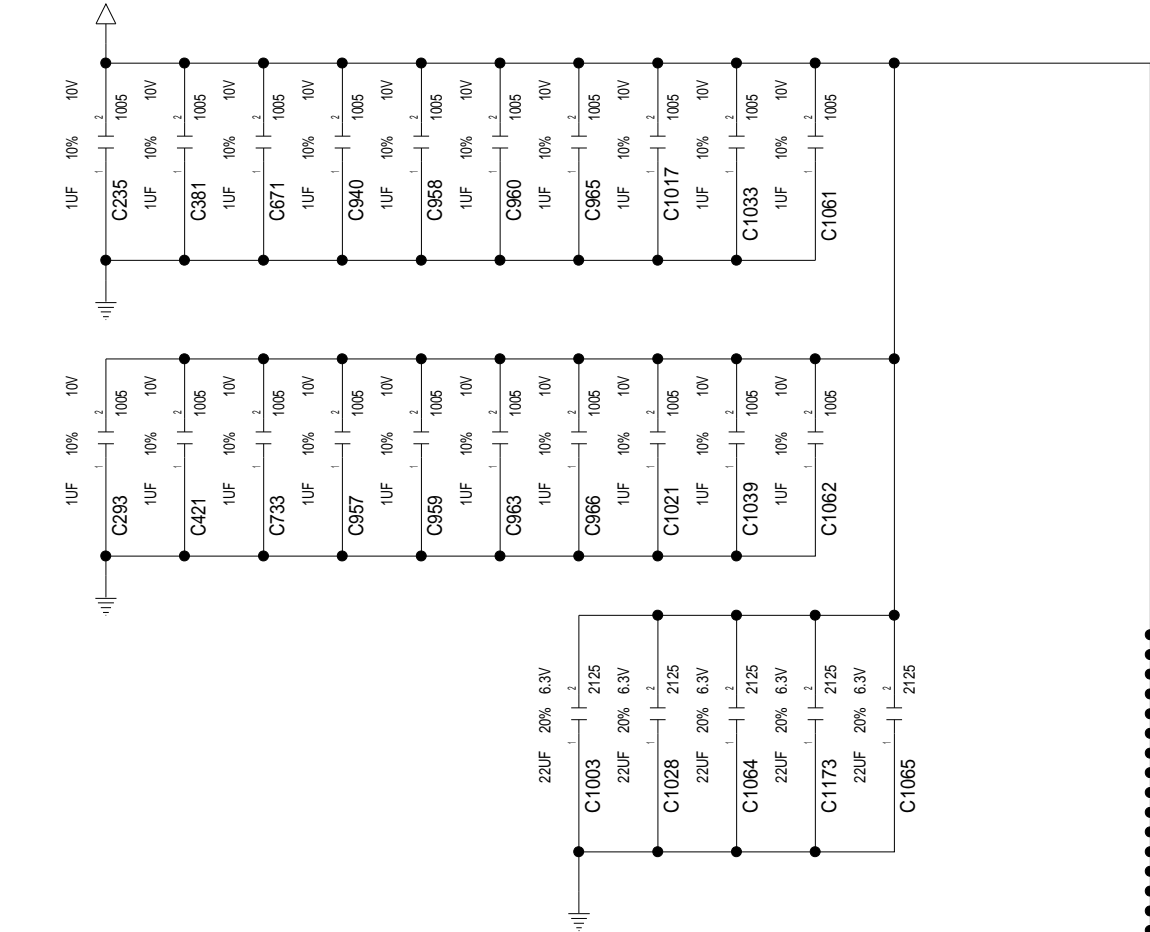
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	GPIO13 CFG[2]	GPIO12 CFG[1]	GPIO11 CFG[0]
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128MB	NO_ASM	NO_ASM	NO_ASM

LOGIC

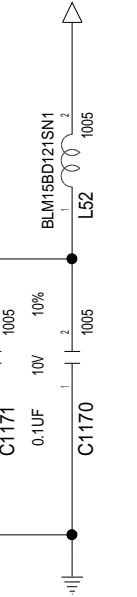
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CLASS	H.K	09/29/08	THIS DOCUMENT IS THE PROPERTY OF LENOVO.ITS USE IS AUTHORIZED ONLY FOR RESPONDING TO A REQUEST FOR QUOTATION OR FOR THE PERFORMANCE OF WORK FOR LENOVO.ALL QUESTIONS MUST BE REFERRED TO THE LENOVO PURCHASING DEPARTMENT.	
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DEVELOPMENT NO.		Q/M		20 / 108	

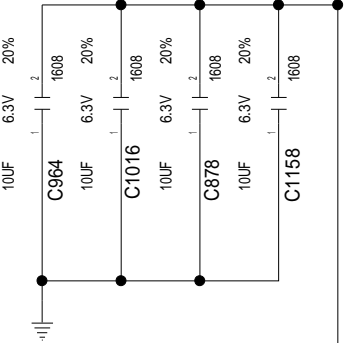
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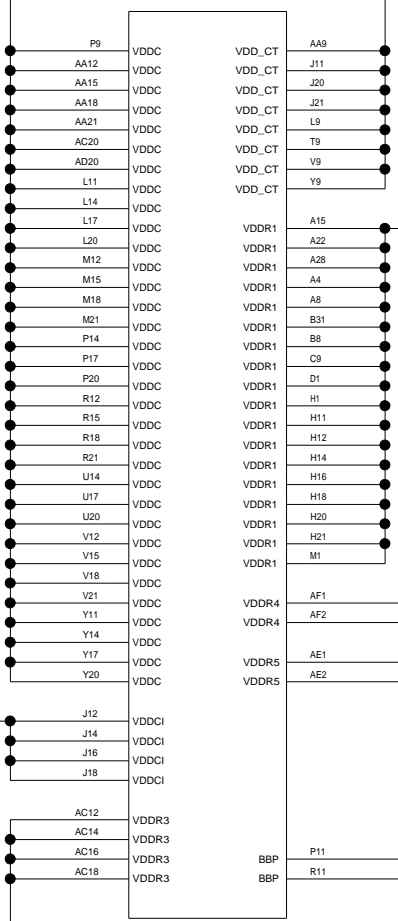
VCC1R8VIDEO



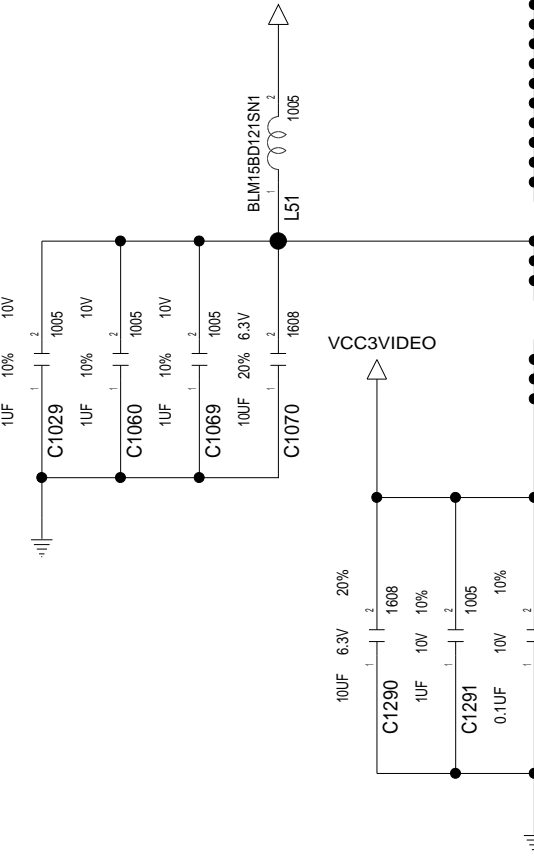
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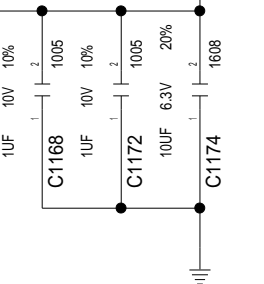
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M82XT_S(5/6)



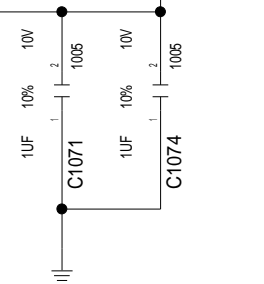
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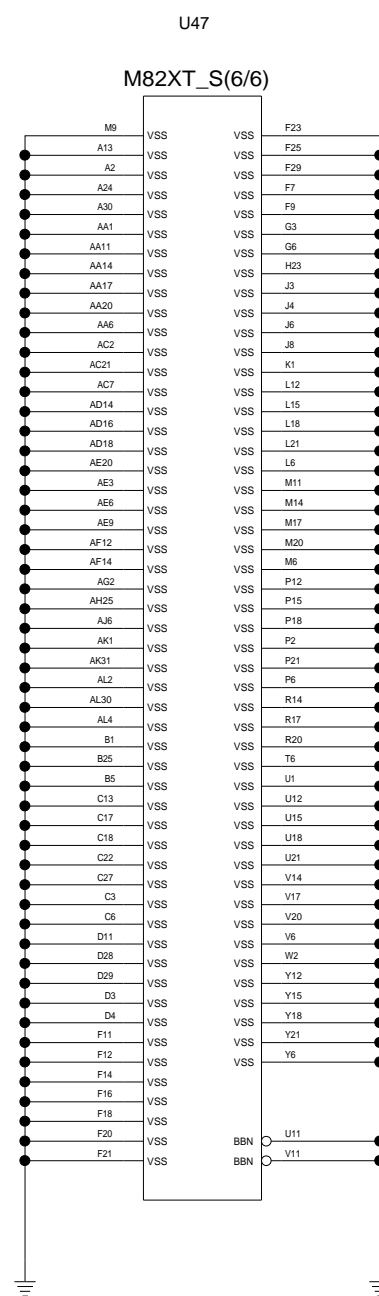
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VCCBBP

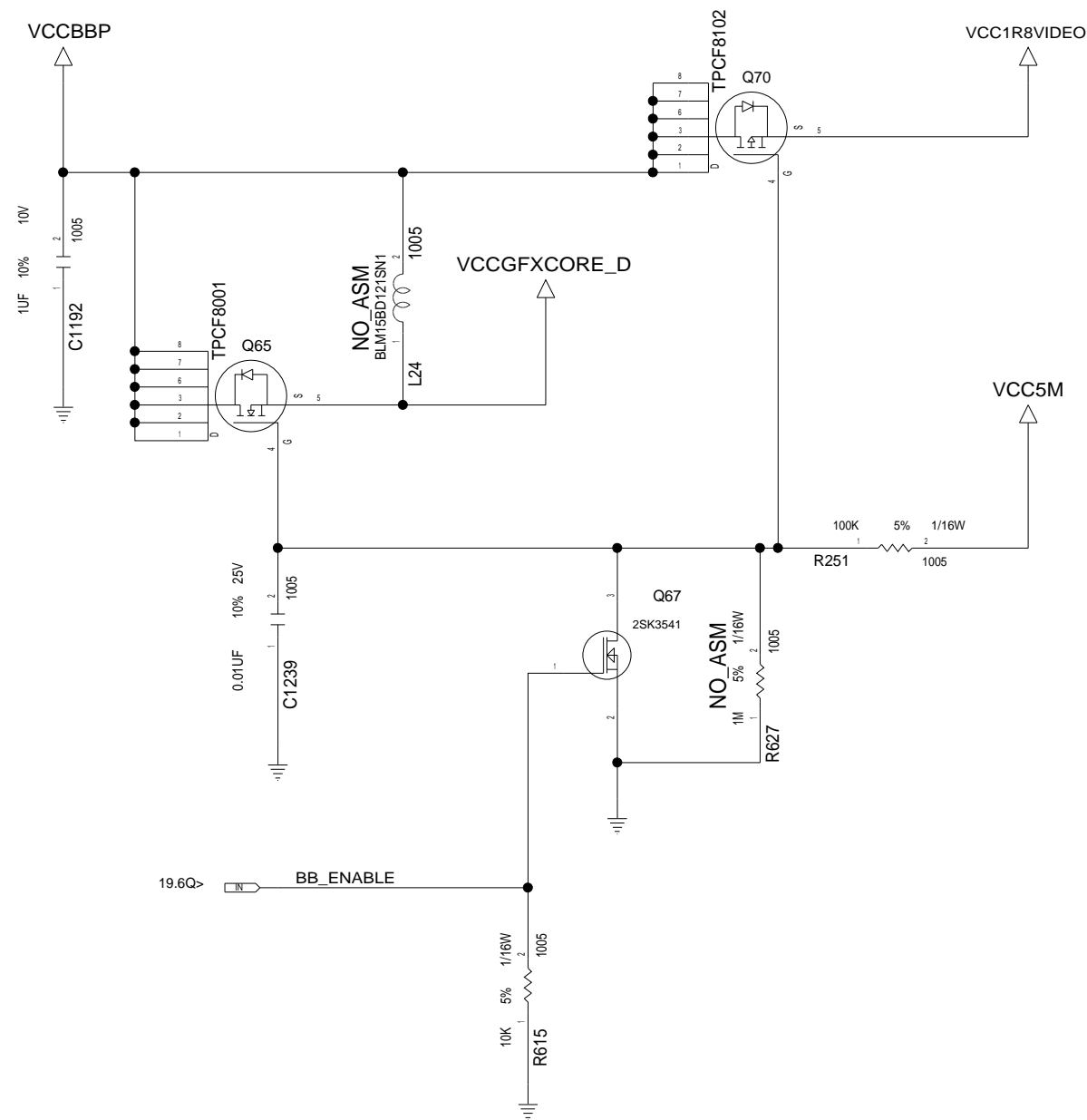


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CLASS	H.K	09/29/08	M82XT-S(5/6):POWER	
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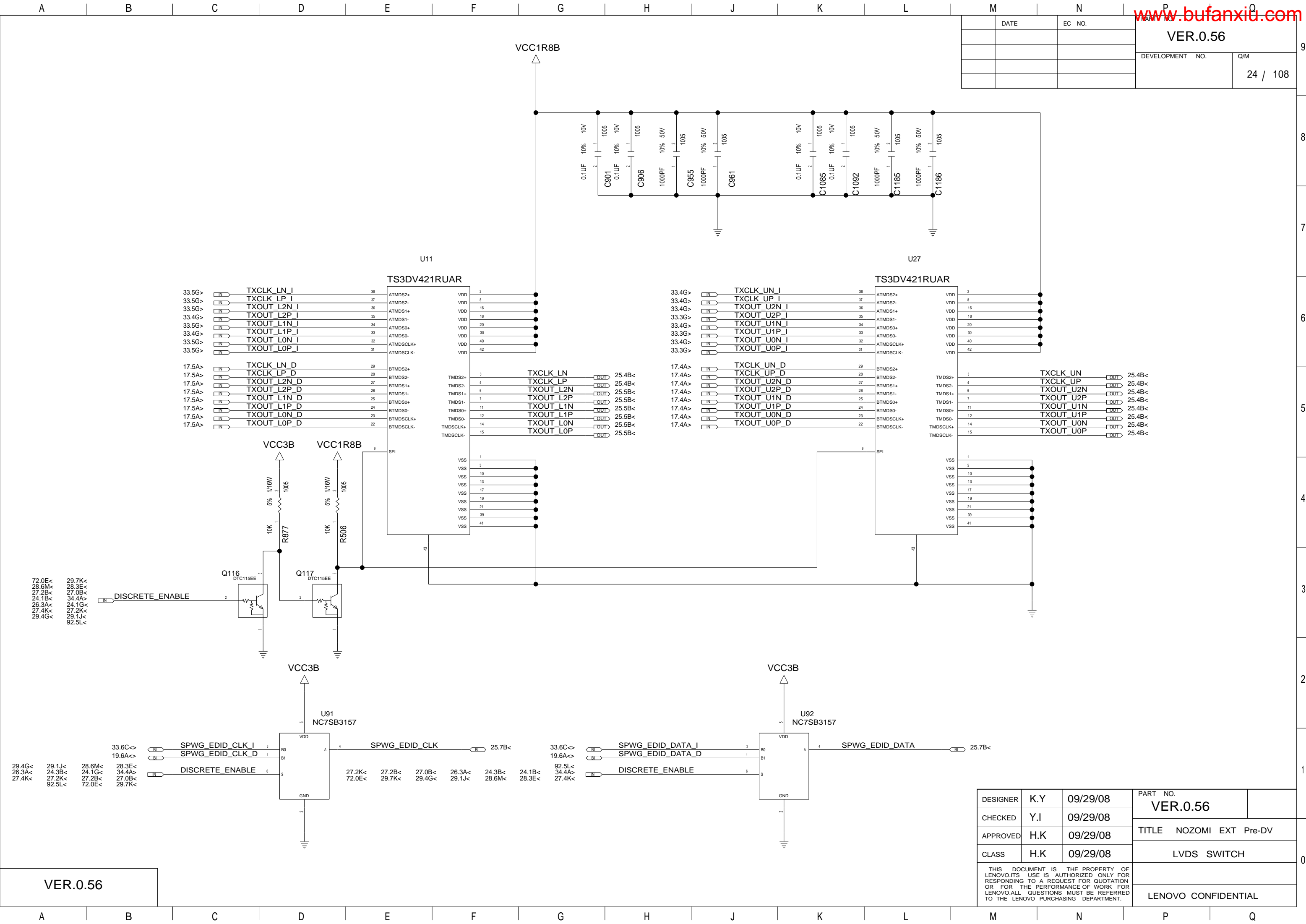




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DATE	EC NO.	www.bufoanxiu.com VER.0.56	
		DEVELOPMENT NO.	Q/M
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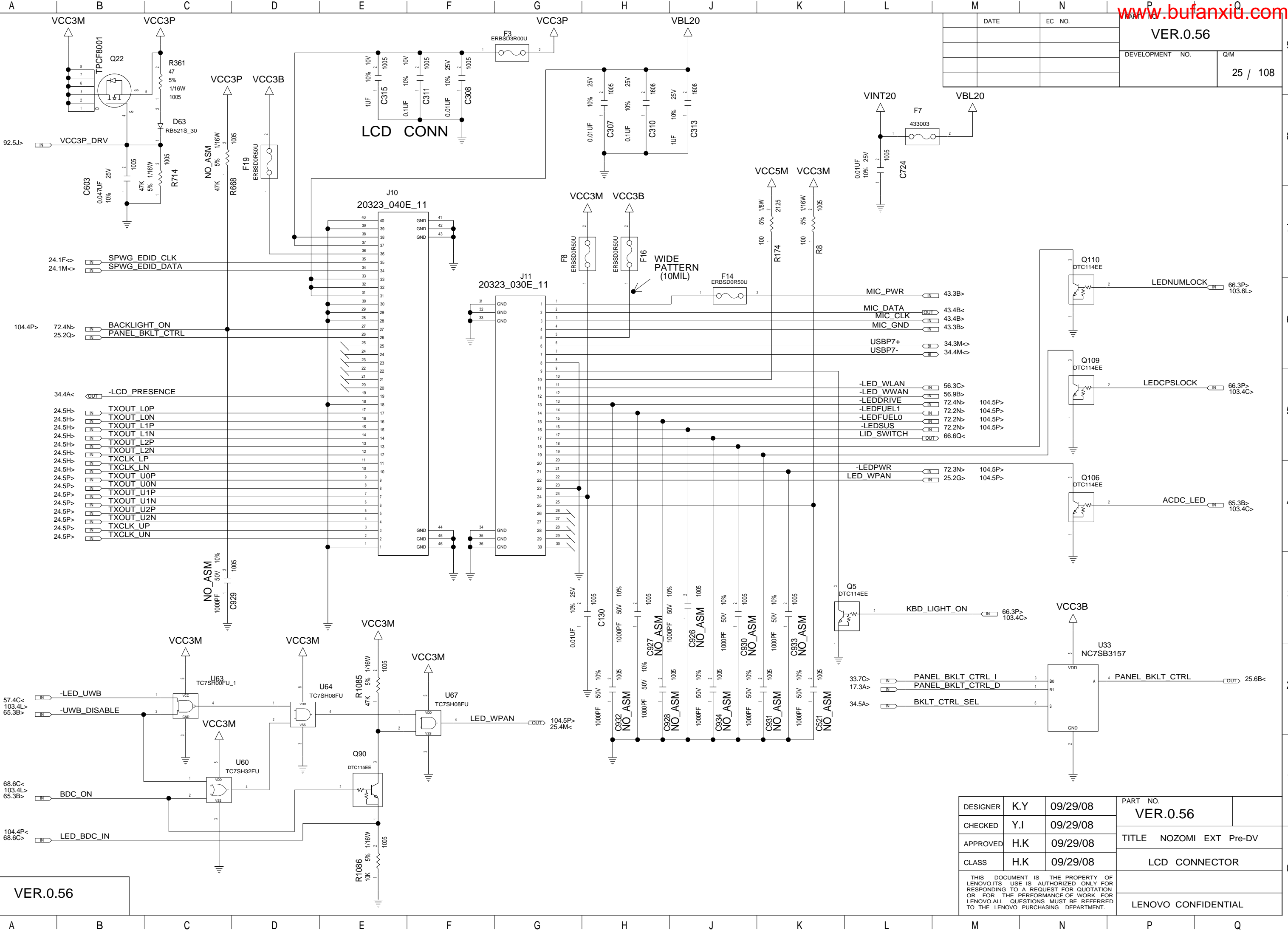


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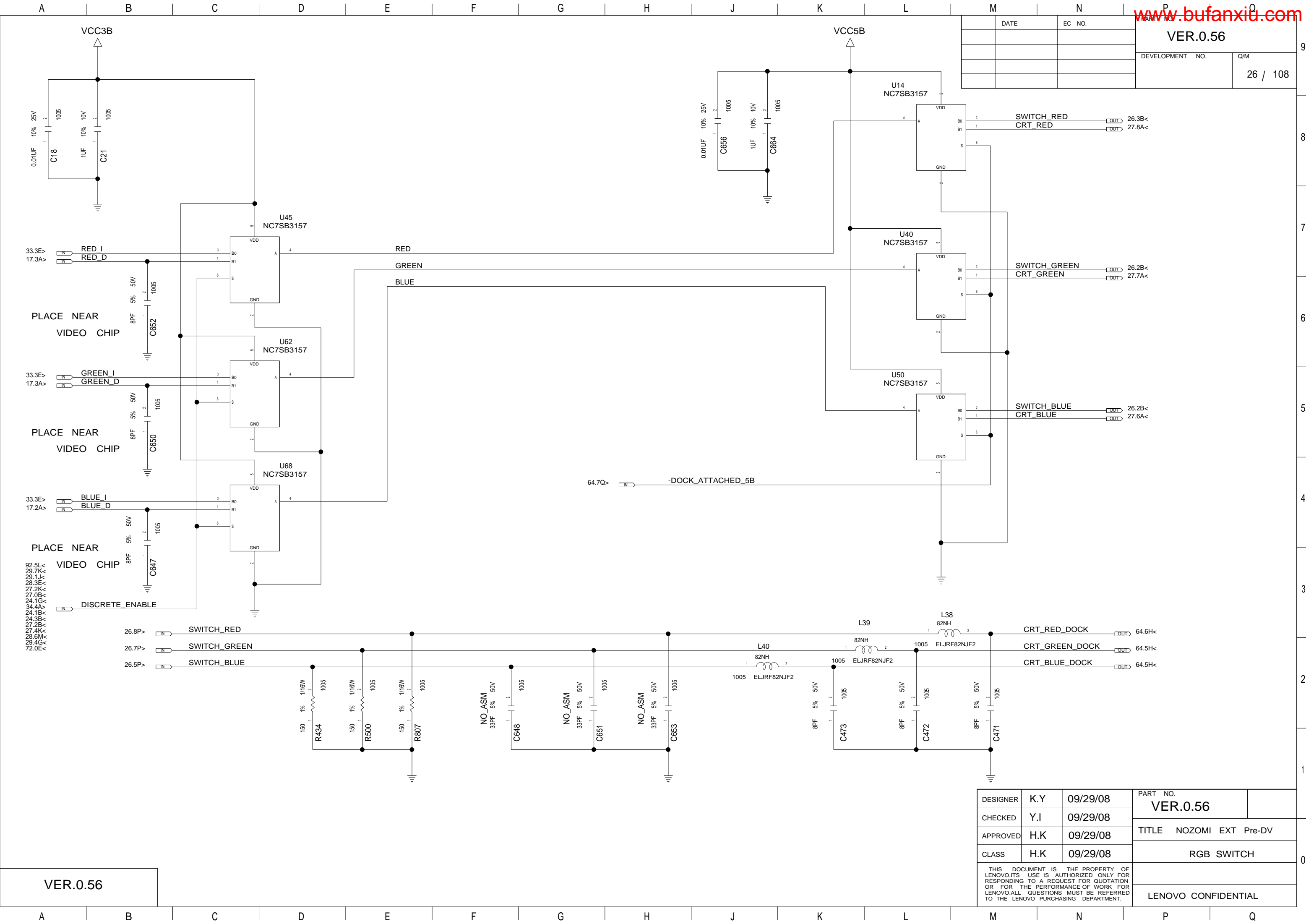


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CLASS	H.K	09/29/08	LENovo CONFIDENTIAL	

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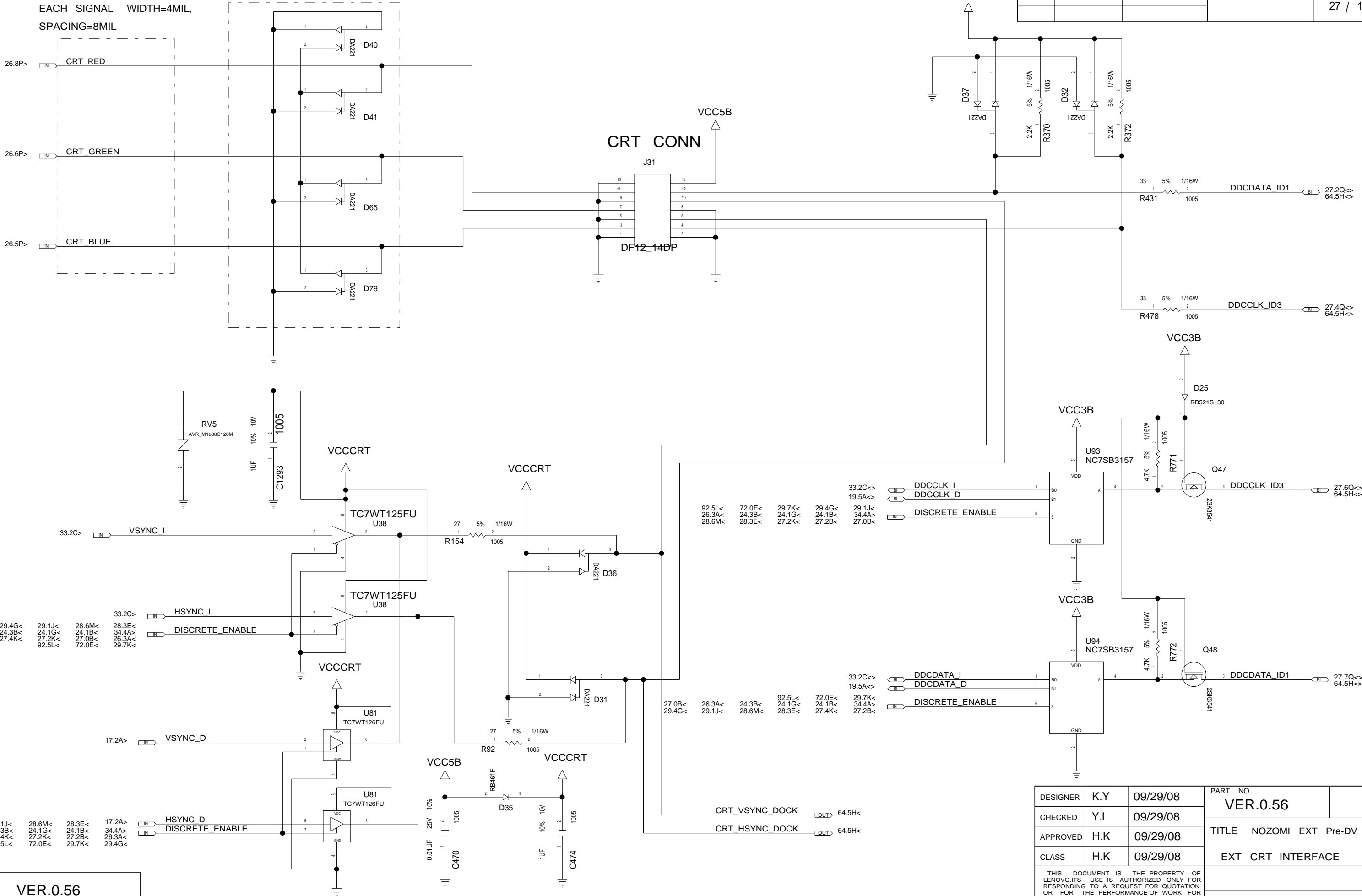
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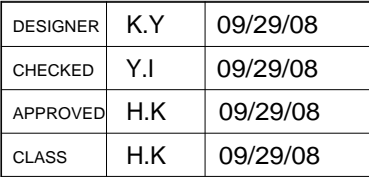
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DEVELOPMENT NO.		Q/M		26 / 108	

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



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CLASS	H.K	09/29/08	EXT CRT INTERFACE	
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VER.0.56

TITLE NOZOMI EXT Pre-DV

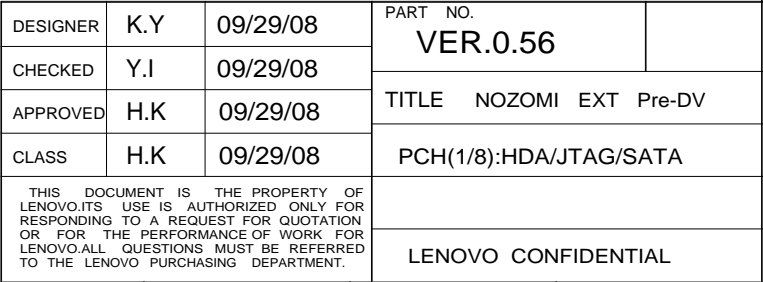
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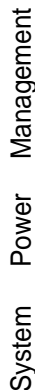
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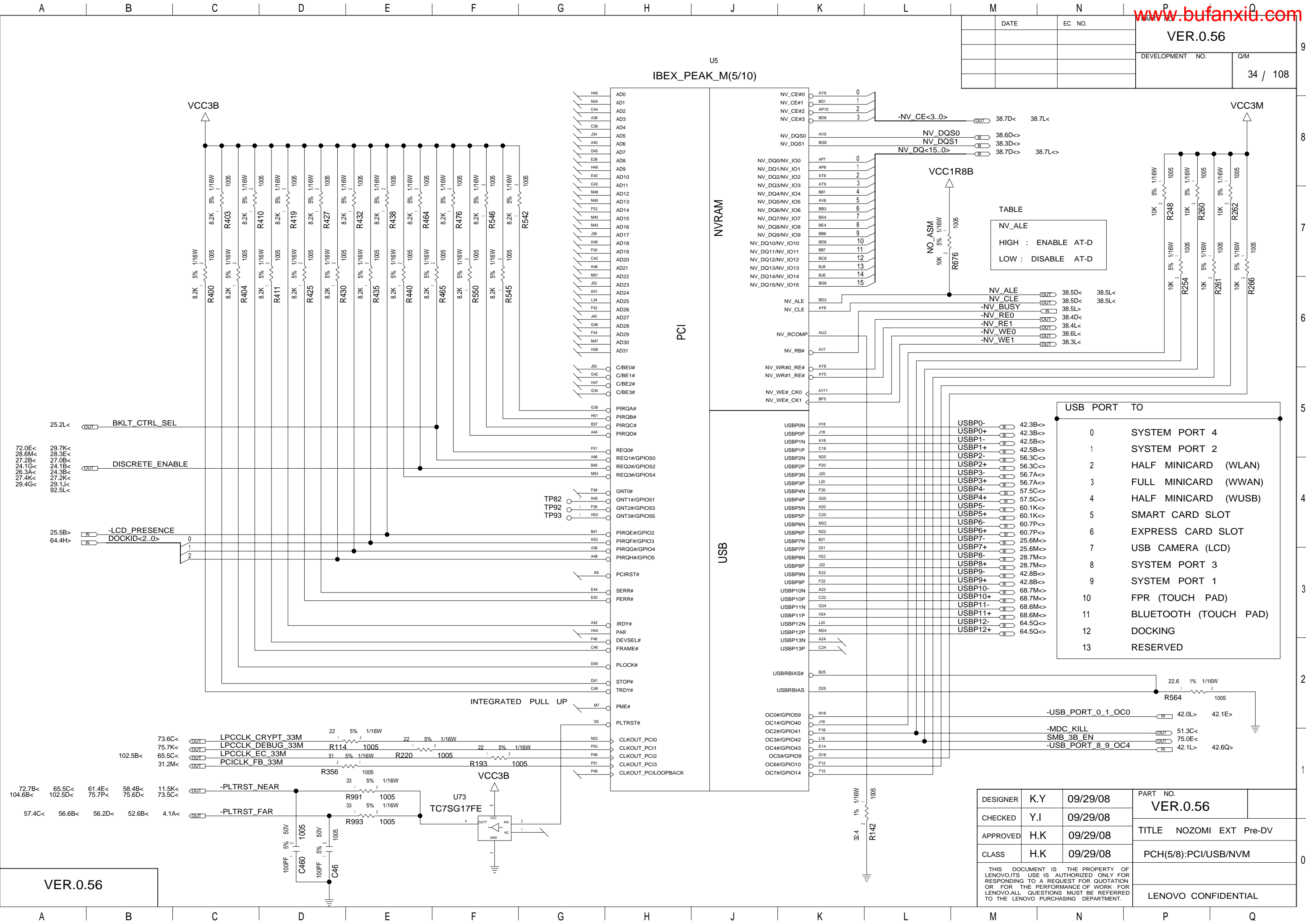


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APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	PCH(3/8):DMI/FDI/PM	
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CLASS	H.K	09/29/08	LENOVO CONFIDENTIAL	

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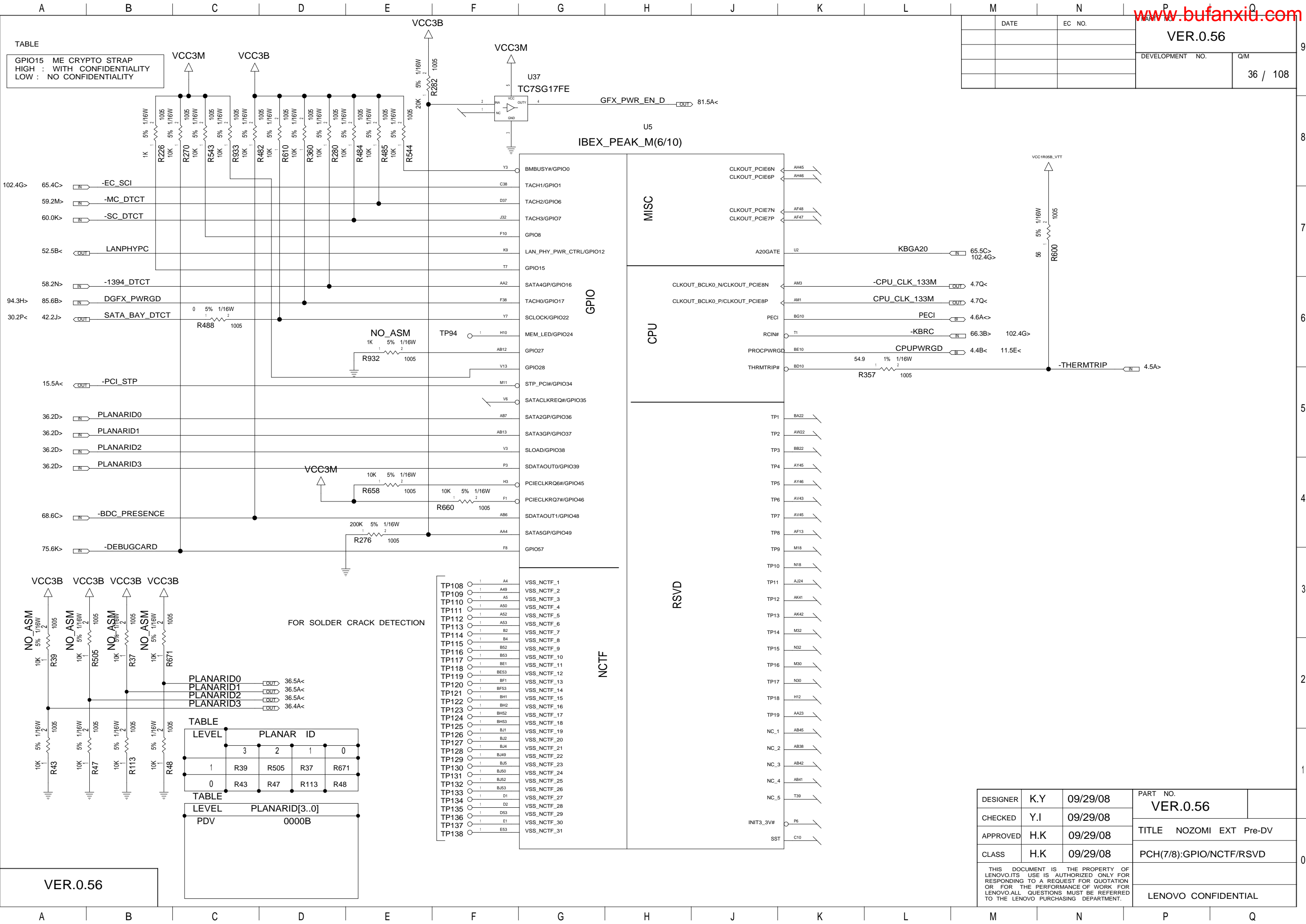


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LOW : NO CONFIDENTIALITY							

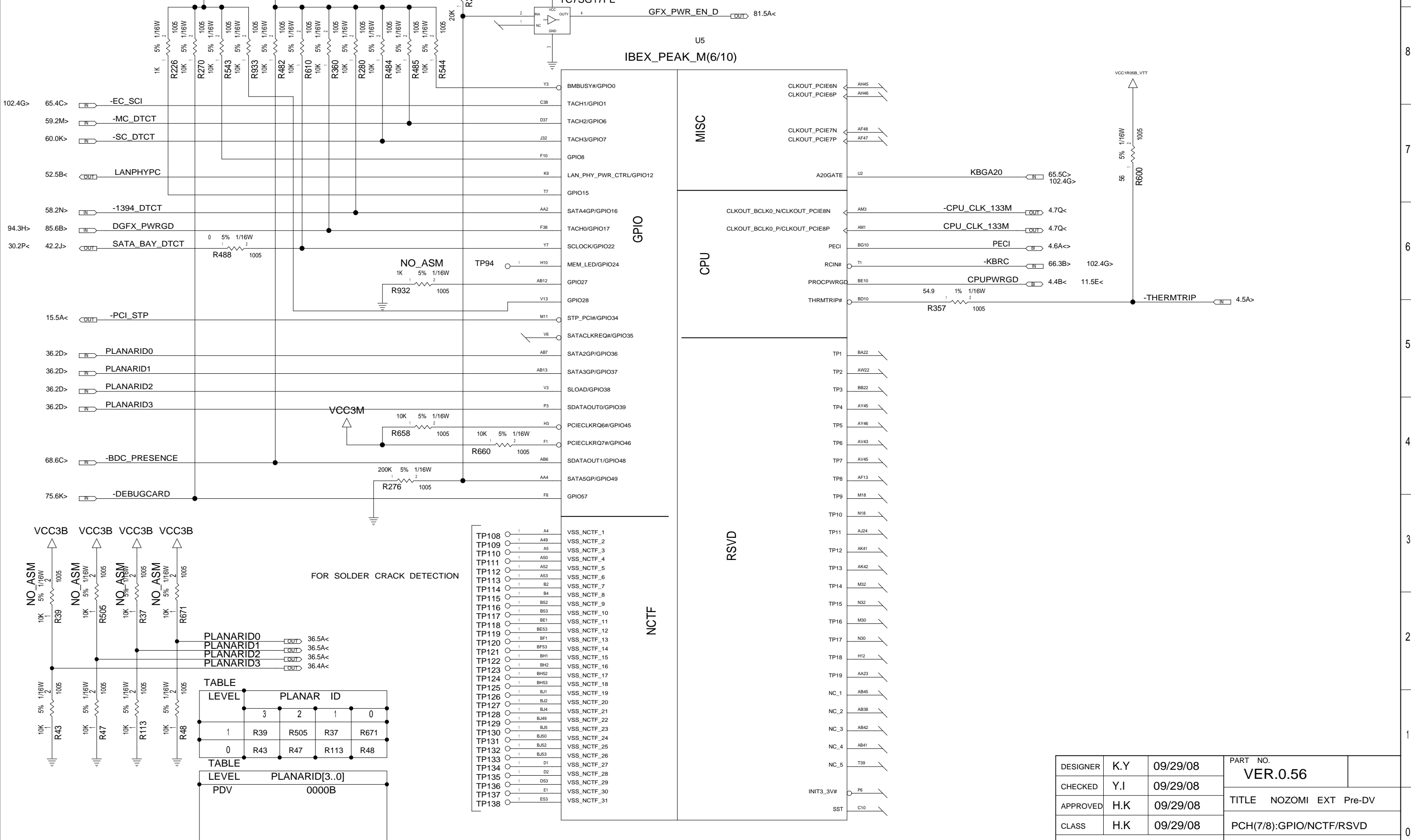
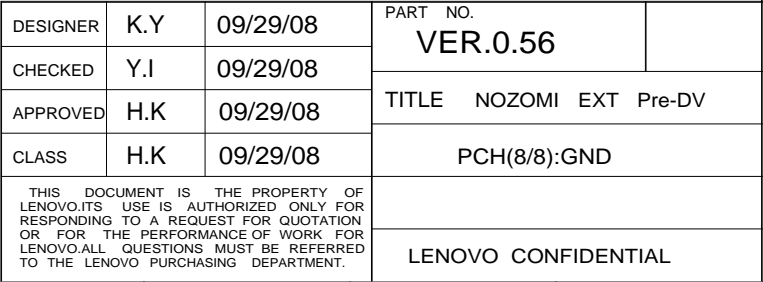


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HIGH : WITH CONFIDENTIALITY							
LOW : NO CONFIDENTIALITY							

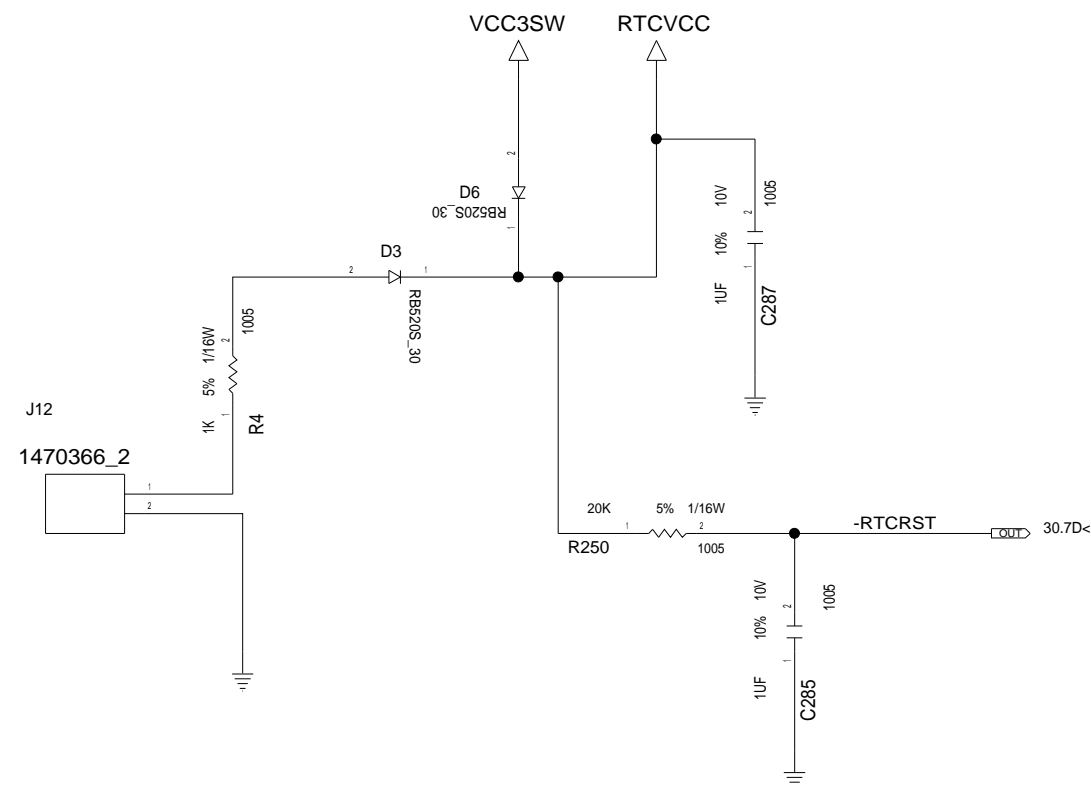
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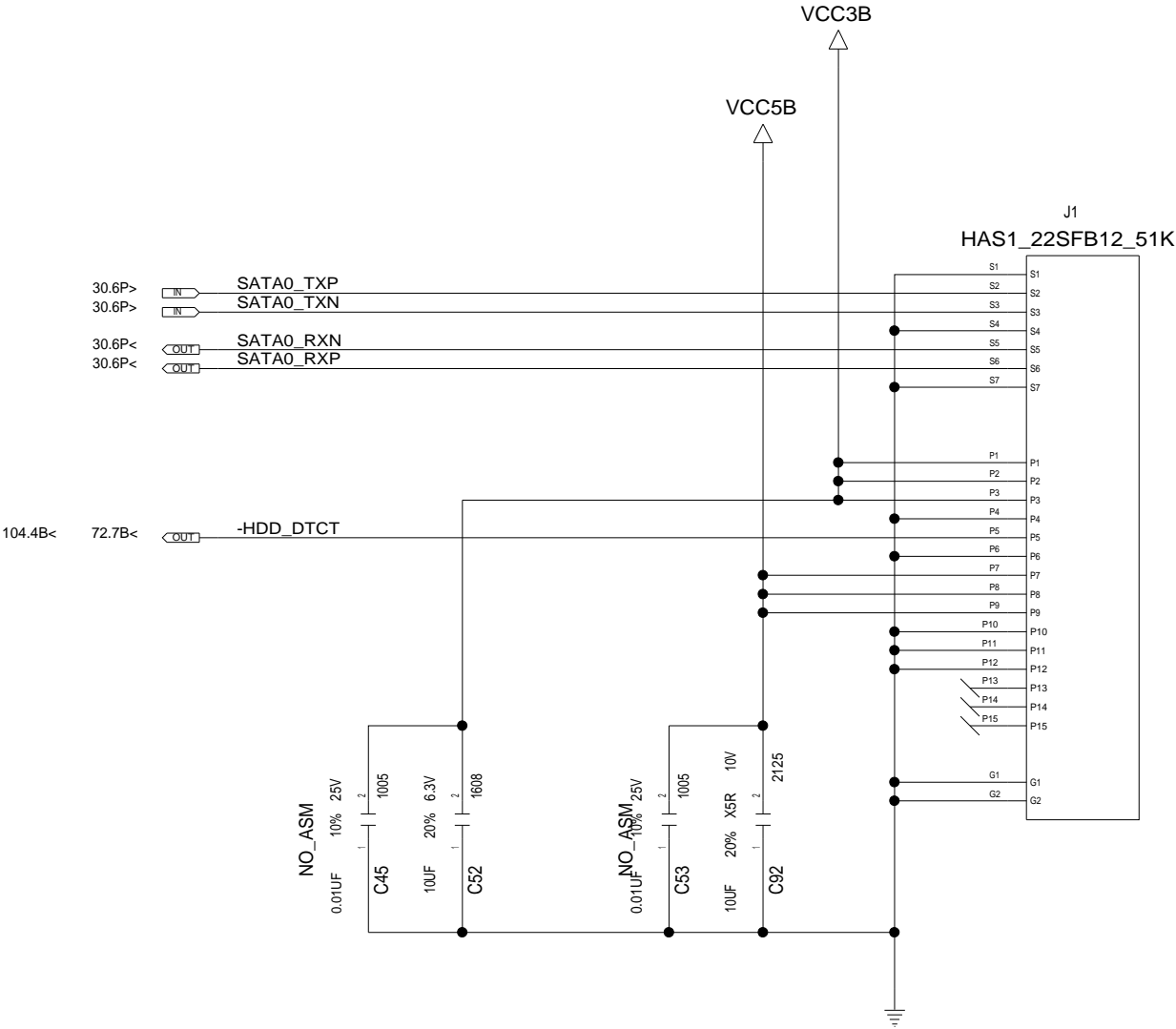
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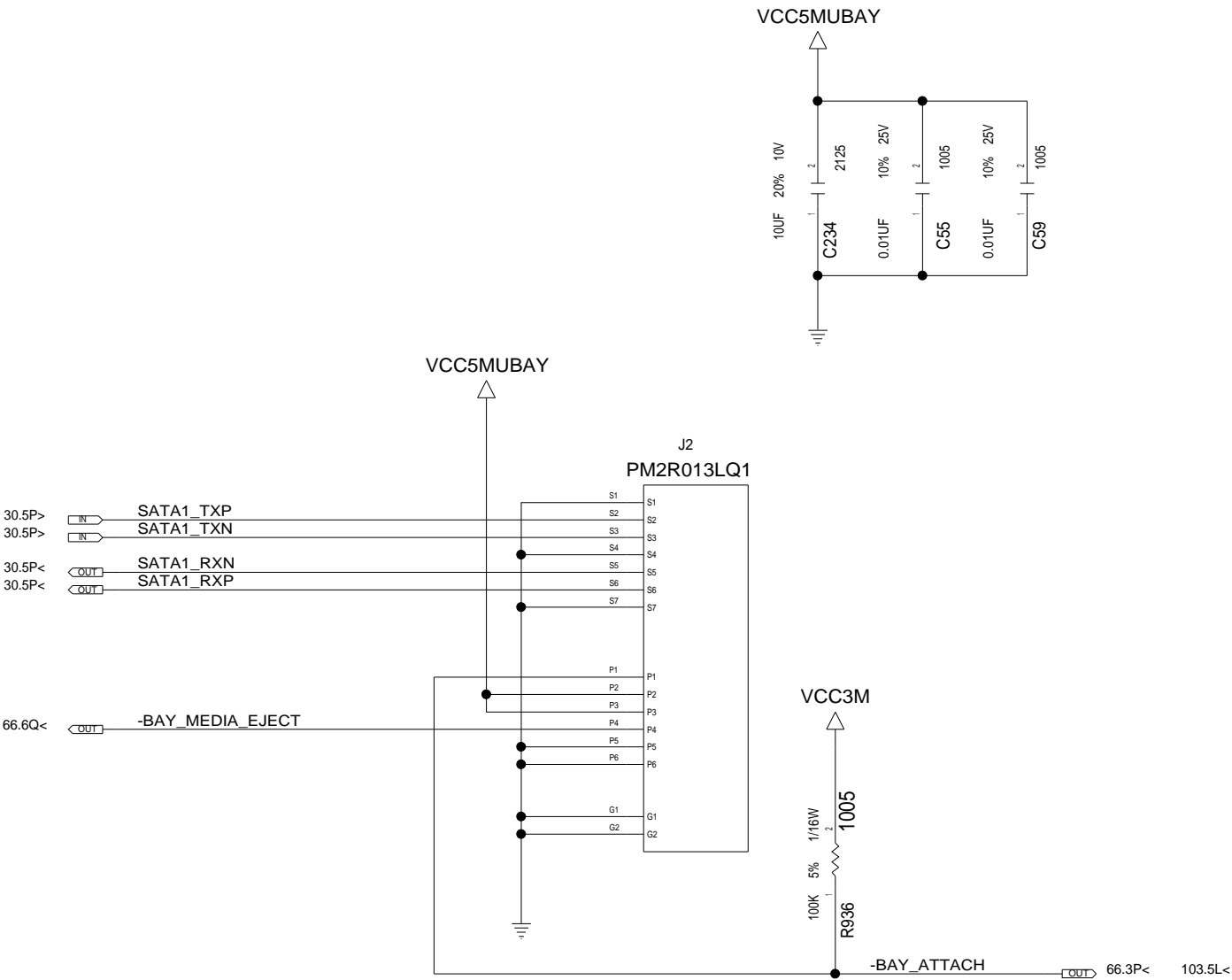
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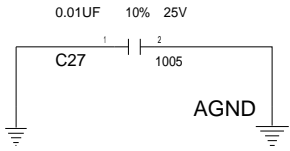
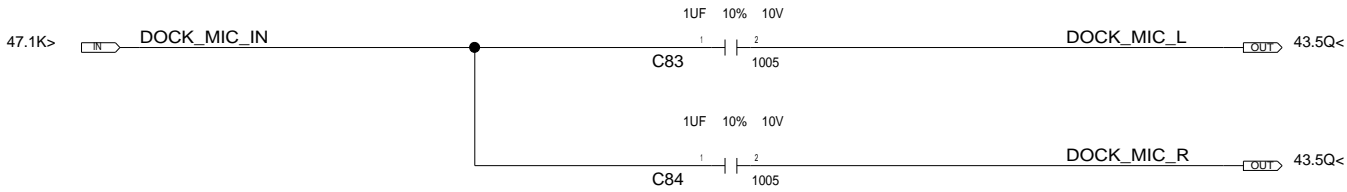


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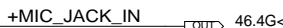




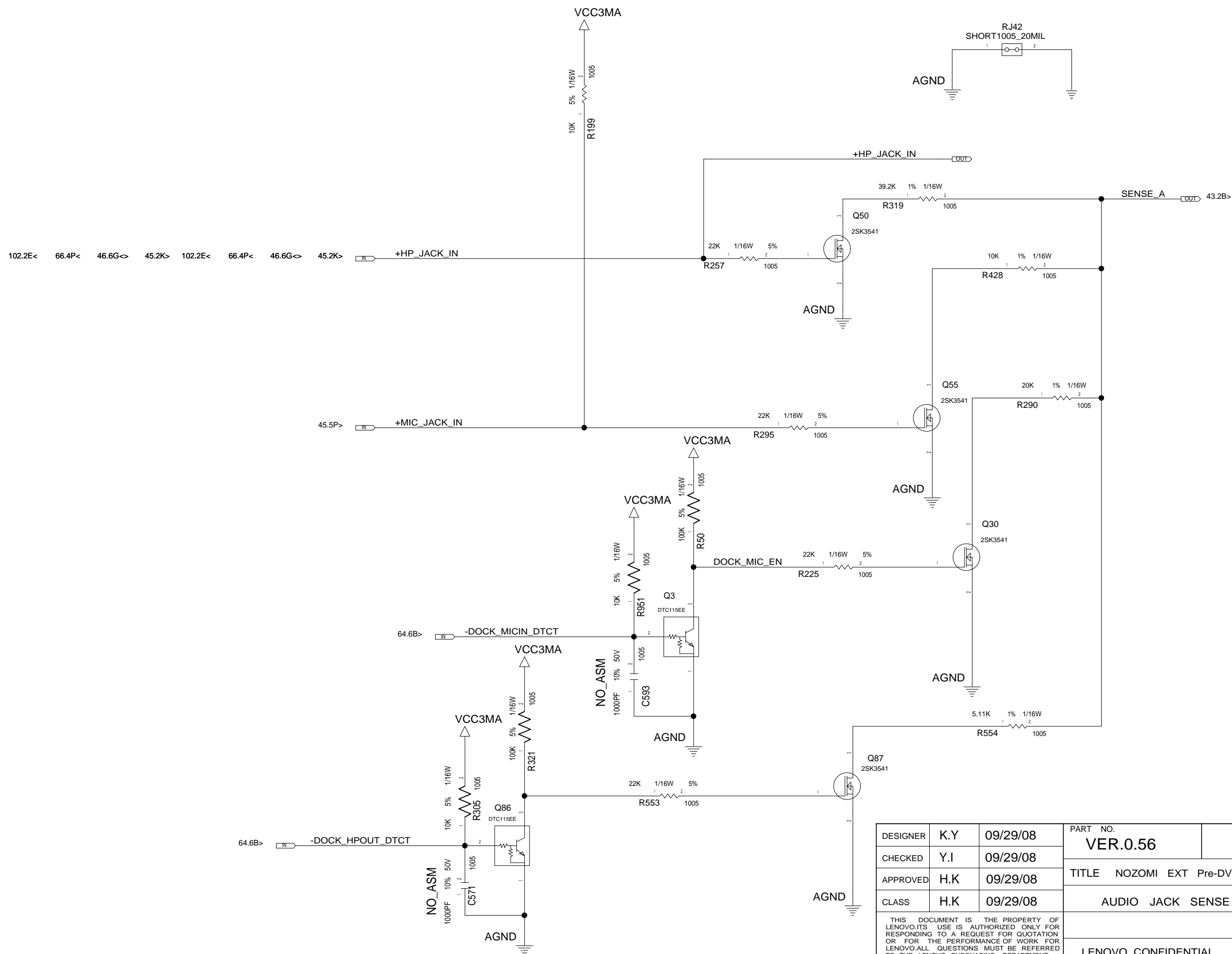
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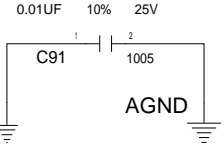
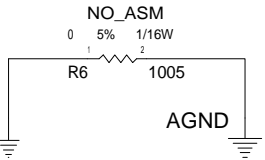
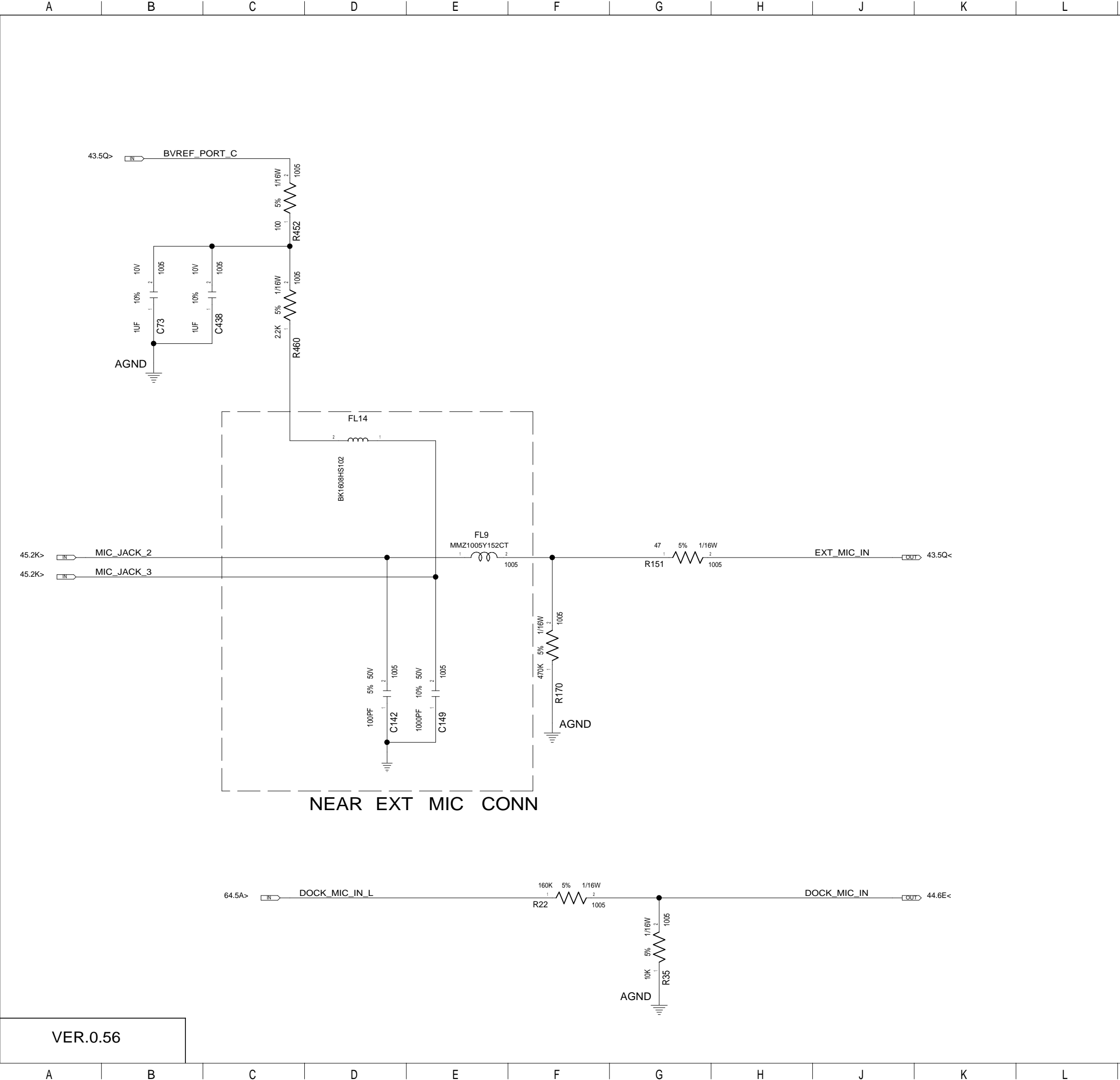
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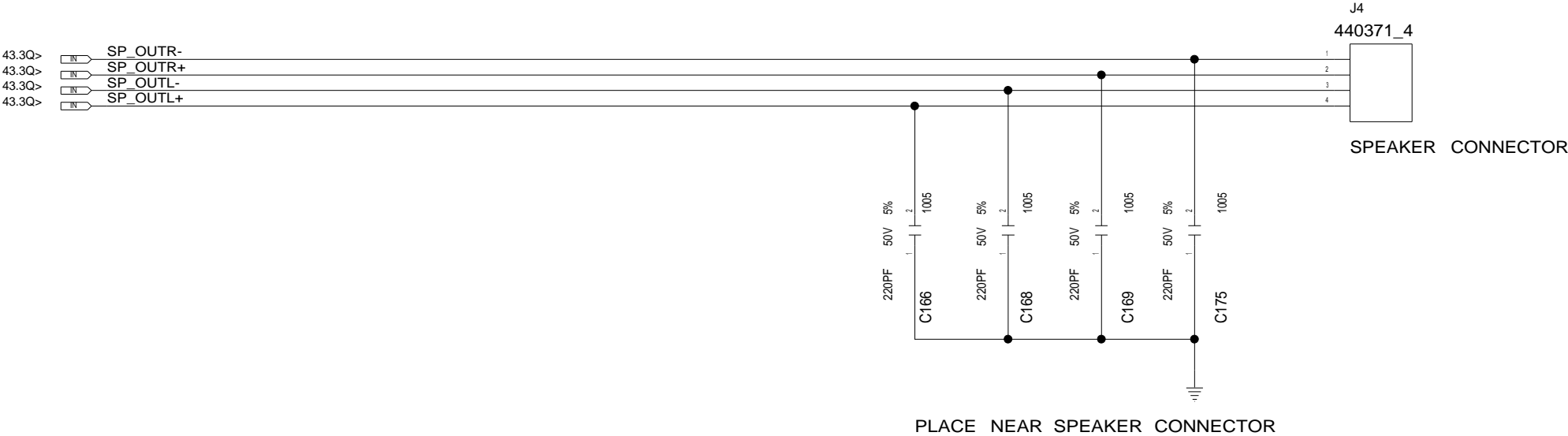


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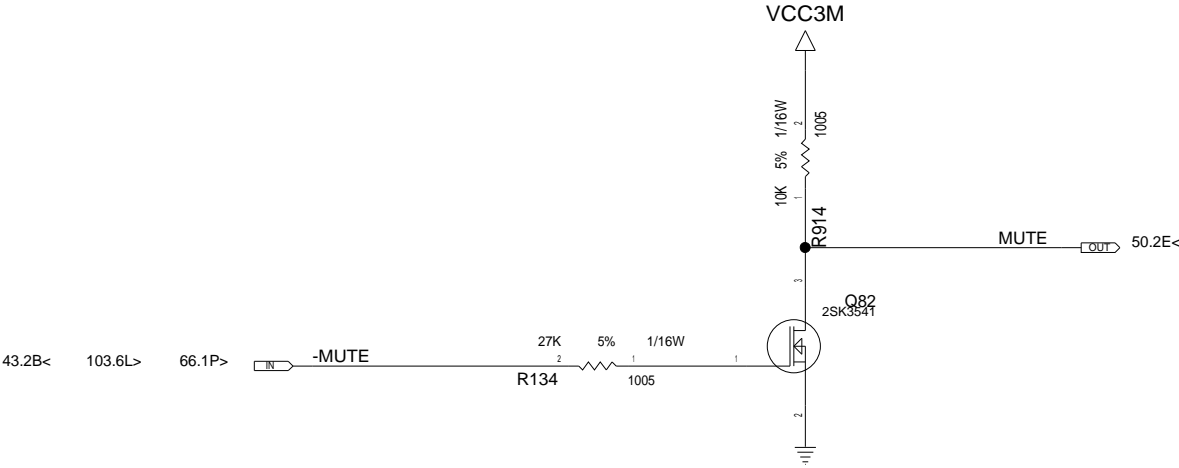
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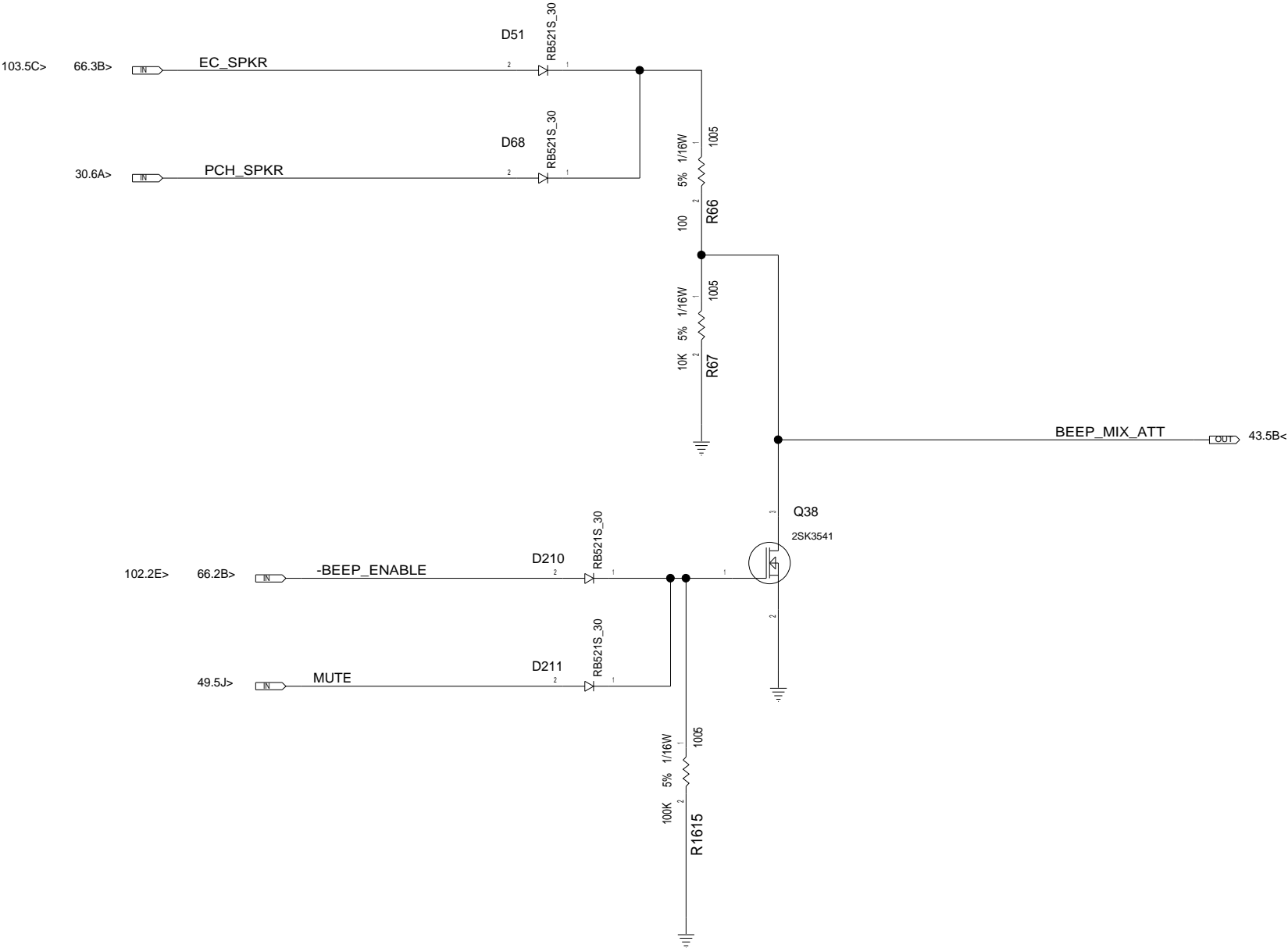
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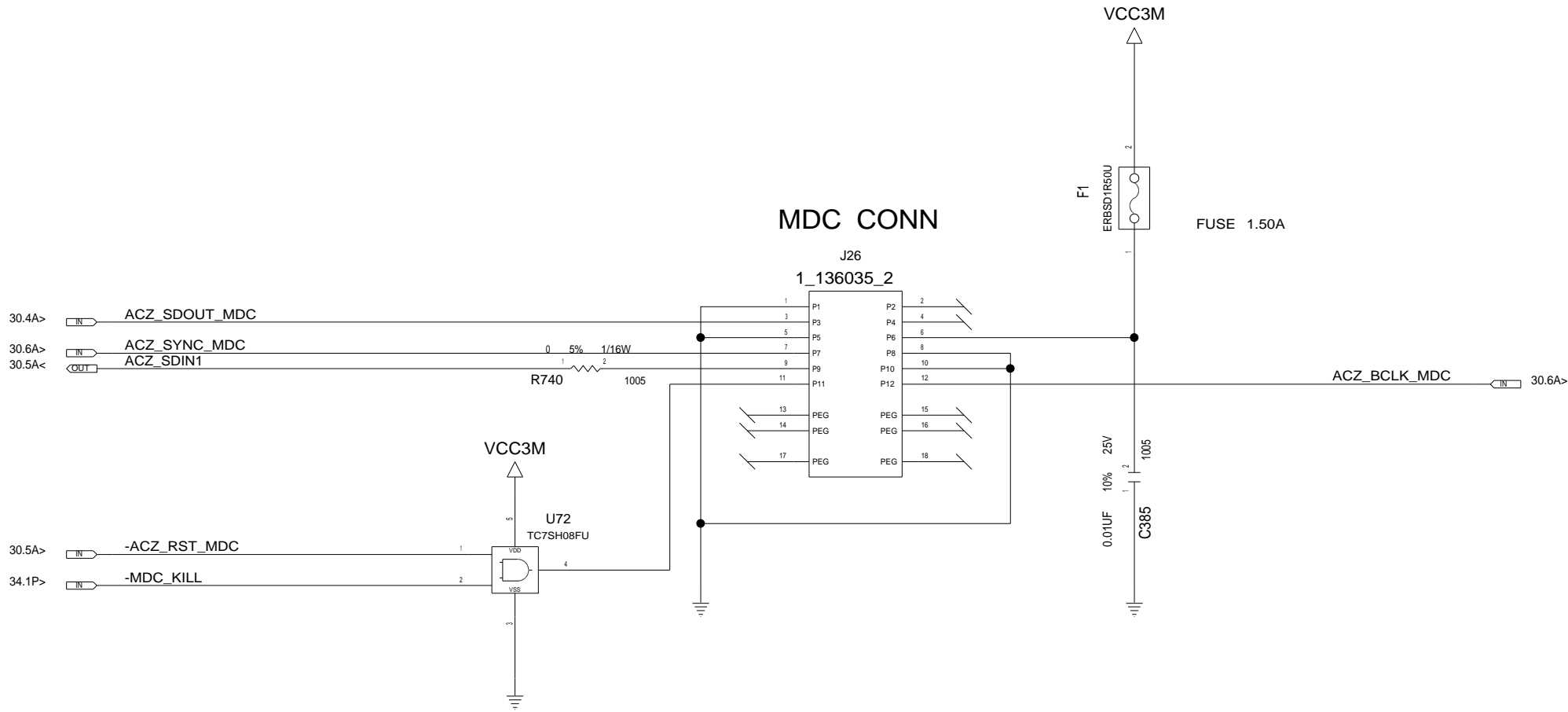
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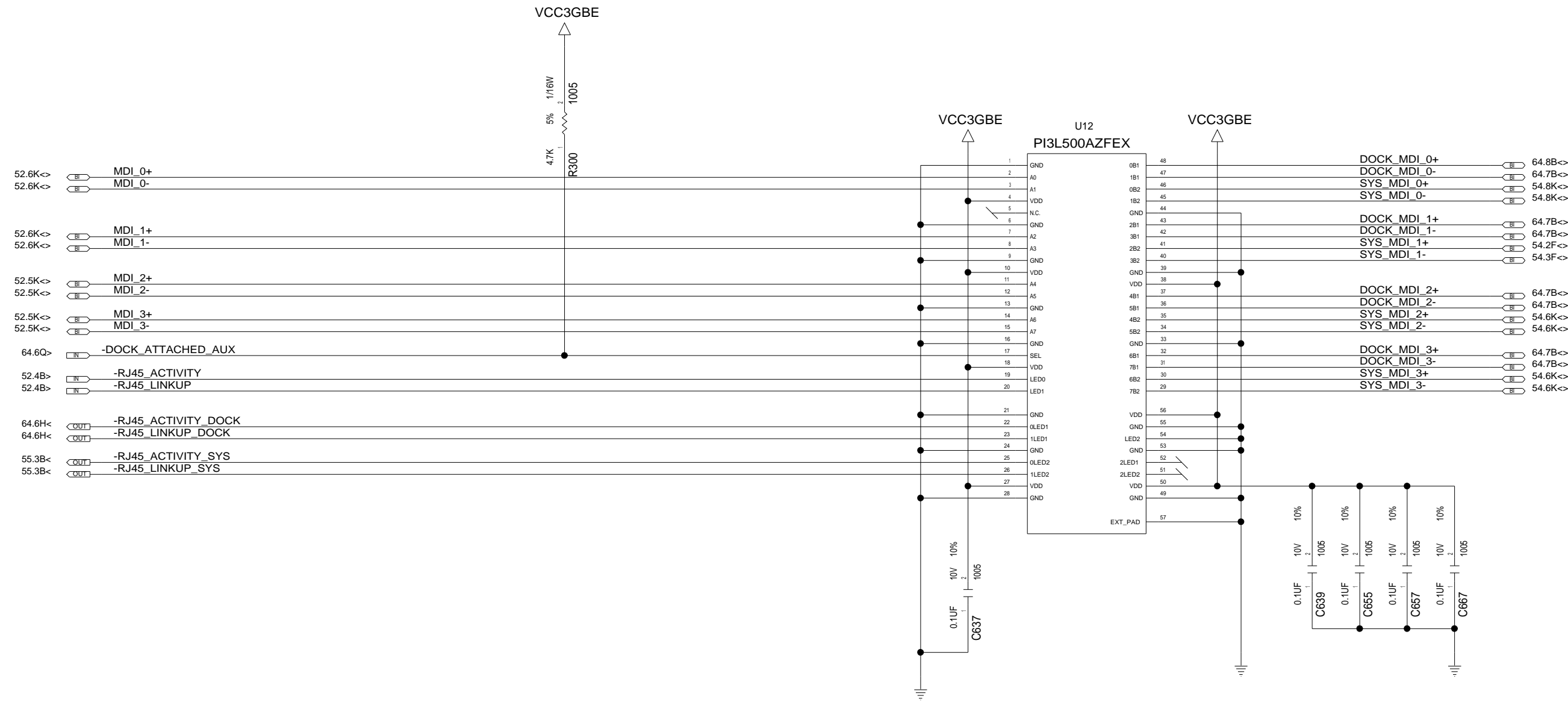
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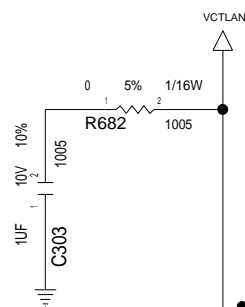
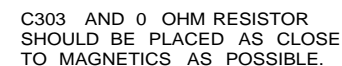
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APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV		
CLASS	H.K	09/29/08	MDC CONNECTOR		
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			LENOVO CONFIDENTIAL		

M		N		P		Q	
DATE		EC NO.		PART NO.		VER.0.56	
				DEVELOPMENT NO.		Q/M	
						52 / 108	

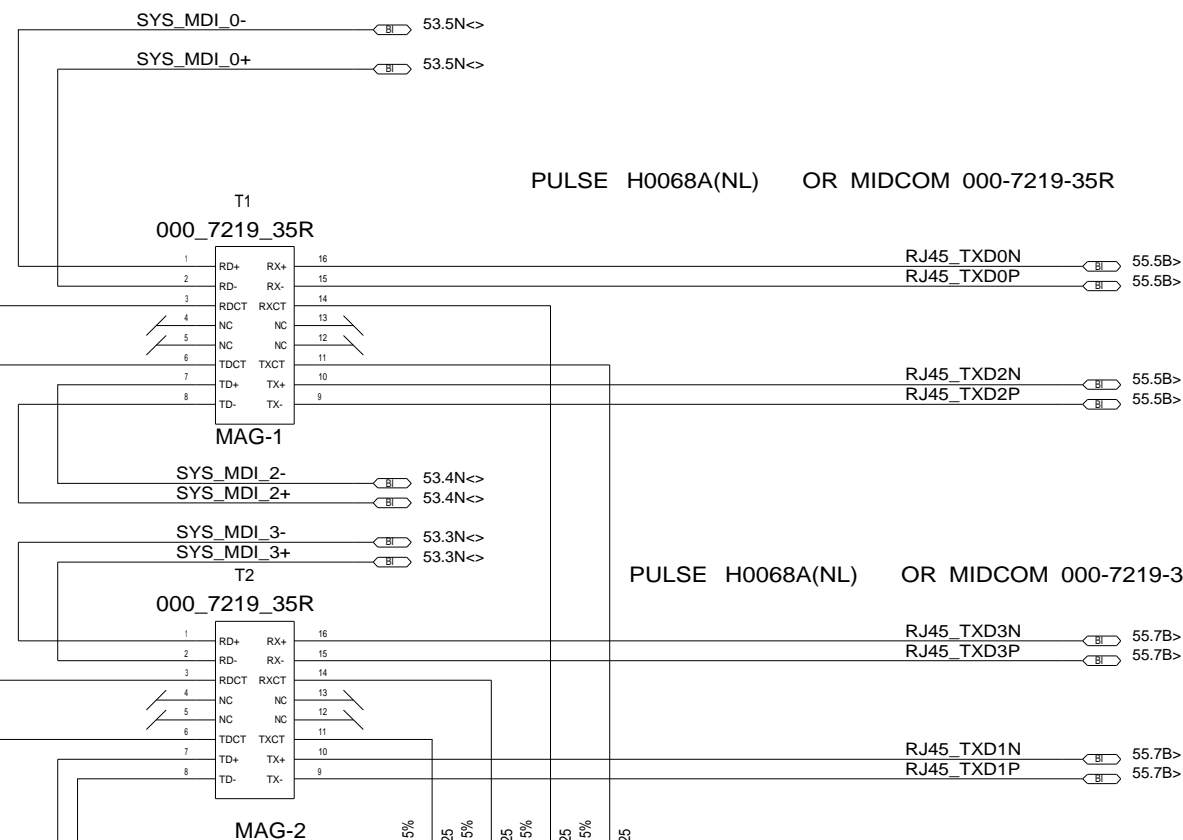
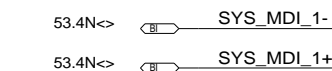
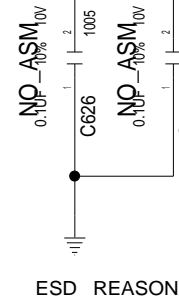
DATE		EC NO.		VER.0.56	
DEVELOPMENT NO.		Q/M		53 / 108	



DESIGNER	K.Y	09/29/08	PART NO.	
CHECKED	Y.I	09/29/08	VER.0.56	
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	GBE LAN SWITCH	
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			LENOVO CONFIDENTIAL	



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

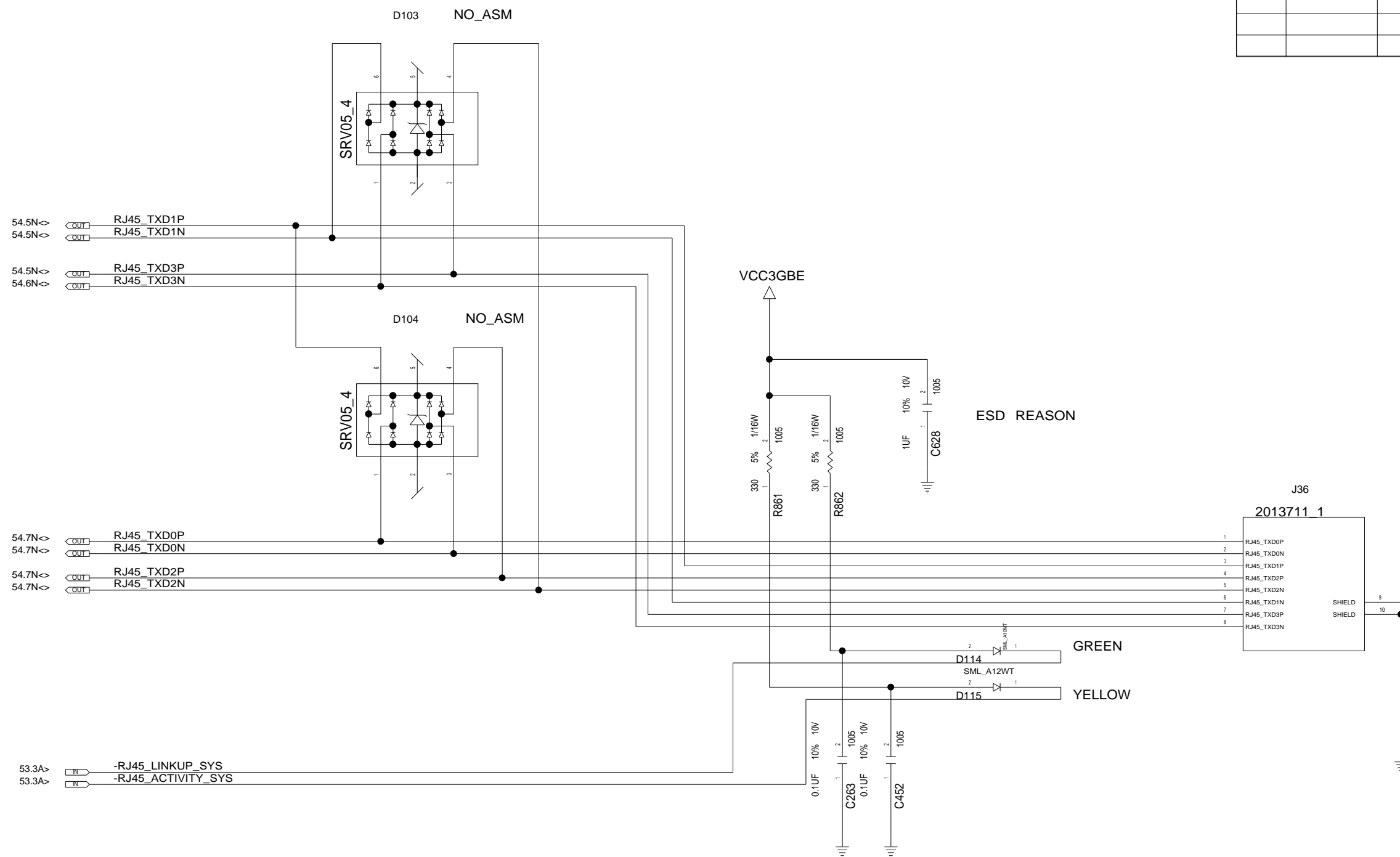


PATTERN MUST BE
SHORT AND WIDE.

HIGH VOLTAGE
1500PF CAP
IS OPTIONAL

DESIGNER	K.Y	09/29/08	PART NO. VER.0.56	
CHECKED	Y.I	09/29/08		
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	GBE MAGNETICS	
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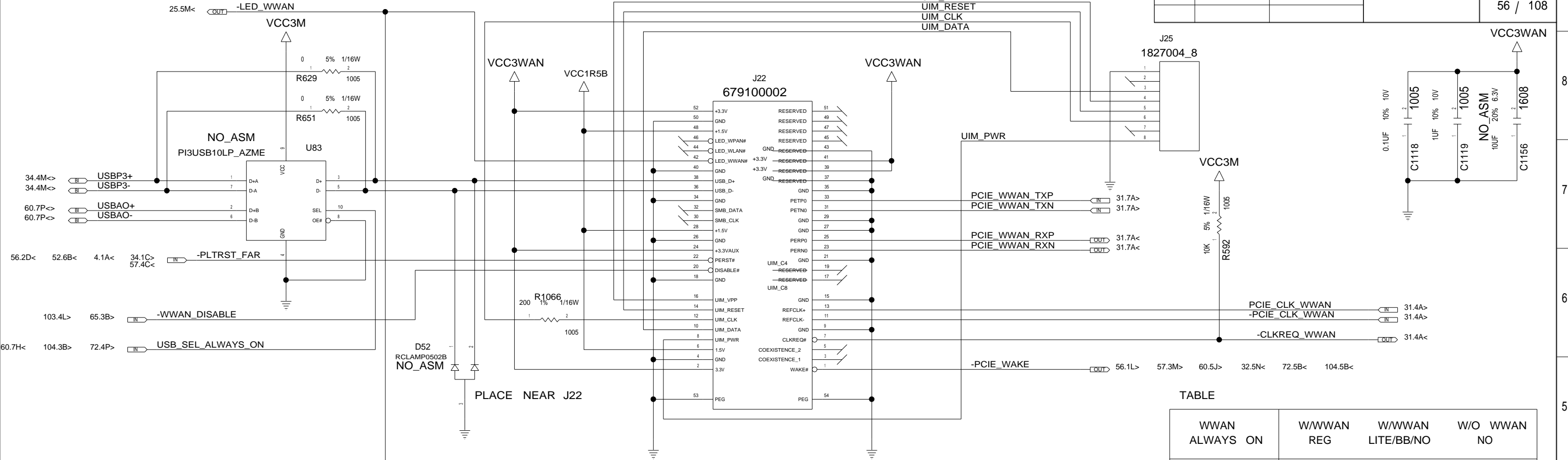
M	N	P	Q
DATE	EC NO.	www.bufoanxiu.com VER.0.56	
		DEVELOPMENT NO.	Q/M
			55 / 108



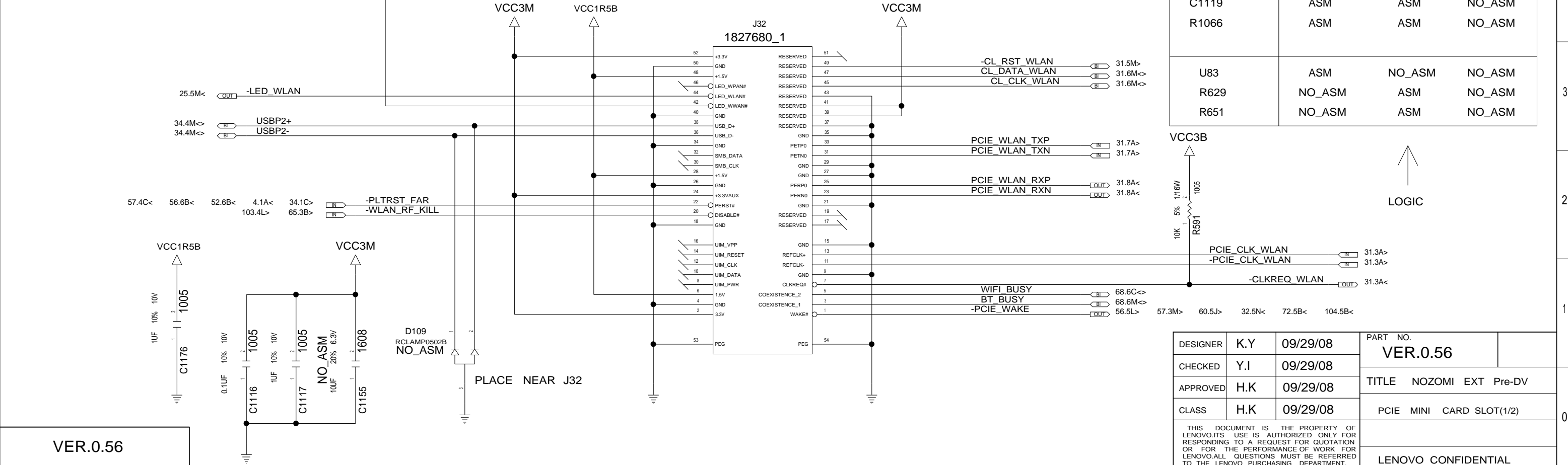
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CHECKED	Y.I	09/29/08	
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV
CLASS	H.K	09/29/08	RJ45 CONNECTOR
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FULL MINI CARD FOR WWAN
4.1H CONNECTOR

	DATE	EC NO.	VER.0.56	
			DEVELOPMENT NO.	Q/M
				56 / 108



HALF MINI CARD FOR WLAN
7.0H CONNECTOR



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
U83	ASM	NO_ASM	NO_ASM
R629	NO_ASM	ASM	NO_ASM
R651	NO_ASM	ASM	NO_ASM

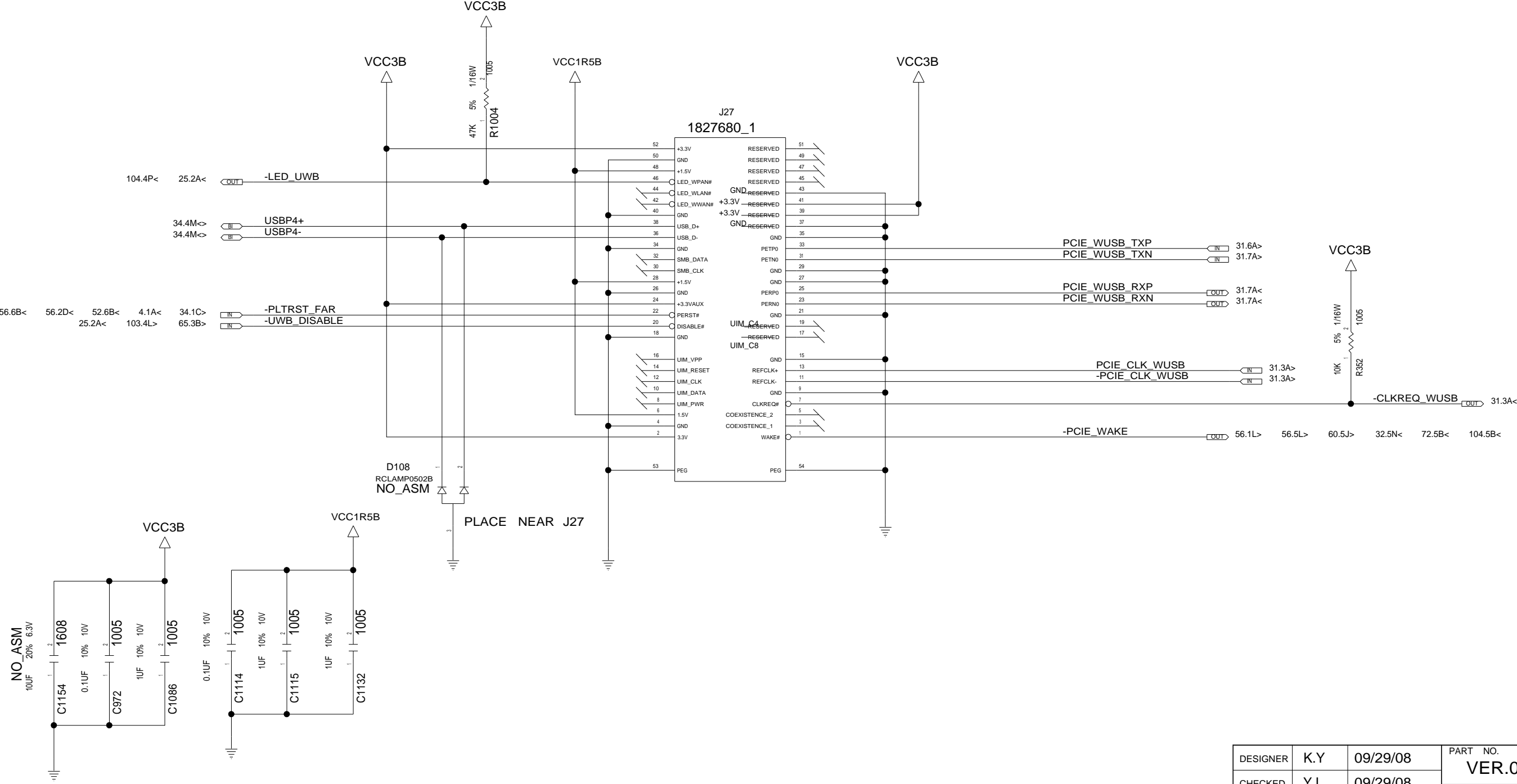
LOGIC

DESIGNER	K.Y	09/29/08	PART NO.	VER.0.56
CHECKED	Y.I	09/29/08	TITLE NOZOMI EXT Pre-DV	
APPROVED	H.K	09/29/08	PCIE MINI CARD SLOT(1/2)	
CLASS	H.K	09/29/08	LENOVO CONFIDENTIAL	

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DATE		EC NO.		VER.0.56	
DEVELOPMENT NO.		Q/M		57 / 108	

HALF MINI CARD FOR WUSB
7.0H CONNECTOR

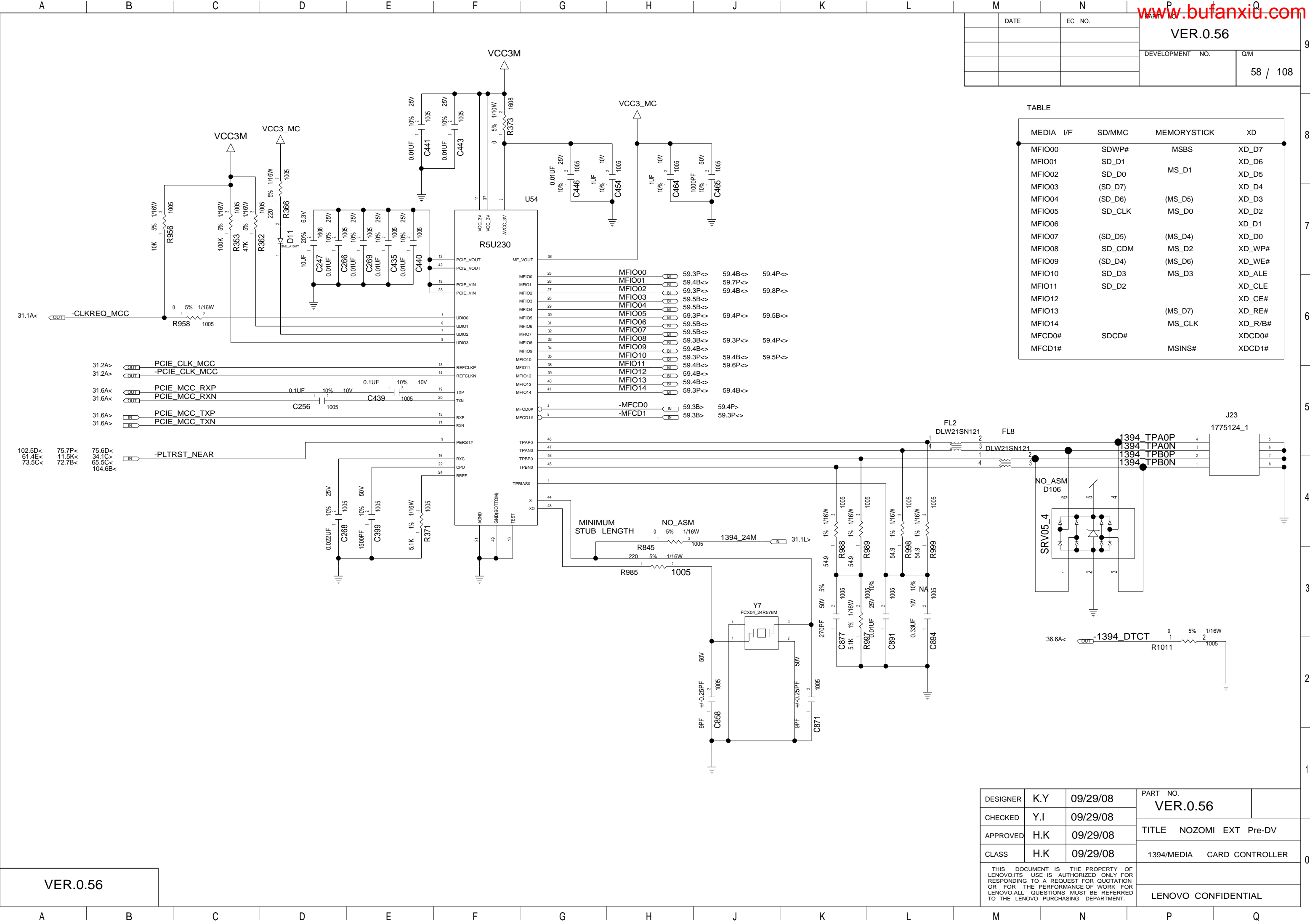


DESIGNER	K.Y	09/29/08	PART NO.	
CHECKED	Y.I	09/29/08	VER.0.56	
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	PCIE MINI CARD SLOT(2/2)	
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M		N		P		Q	
DATE		EC NO.		VER.0.56			
				DEVELOPMENT NO.			
				Q/M			
				58 / 108			

TABLE

MEDIA	I/F	SD/MMC	MEMORYSTICK	XD
MFIO00		SDWP#	MSBS	XD_D7
MFIO01		SD_D1		XD_D6
MFIO02		SD_D0	MS_D1	XD_D5
MFIO03		(SD_D7)		XD_D4
MFIO04		(SD_D6)	(MS_D5)	XD_D3
MFIO05		SD_CLK	MS_D0	XD_D2
MFIO06				XD_D1
MFIO07		(SD_D5)	(MS_D4)	XD_D0
MFIO08		SD_CDM	MS_D2	XD_WP#
MFIO09		(SD_D4)	(MS_D6)	XD_WE#
MFIO10		SD_D3	MS_D3	XD_ALE
MFIO11		SD_D2		XD_CLE
MFIO12				XD_CE#
MFIO13			(MS_D7)	XD_RE#
MFIO14			MS_CLK	XD_R/B#
MFCD0#		SDCD#		XD_CD0#
MFCD1#			MSINS#	XD_CD1#

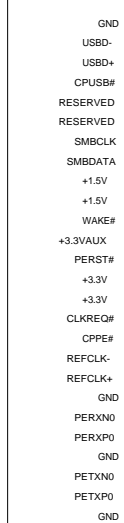


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CHECKED	Y.I	09/29/08	VER.0.56	
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	1394/MEDIA CARD CONTROLLER	
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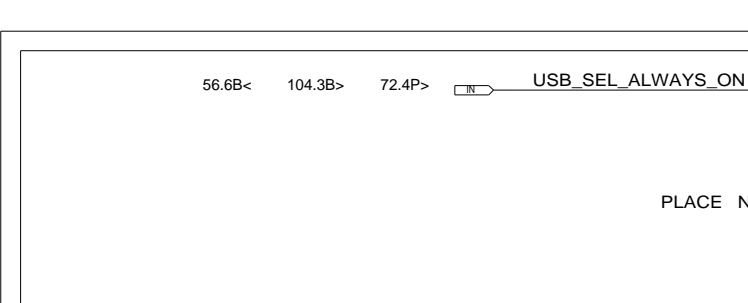
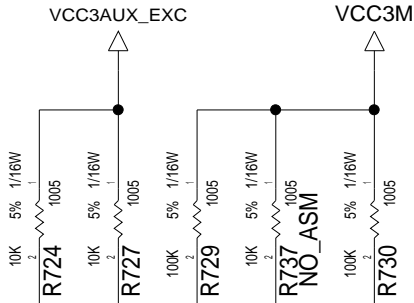


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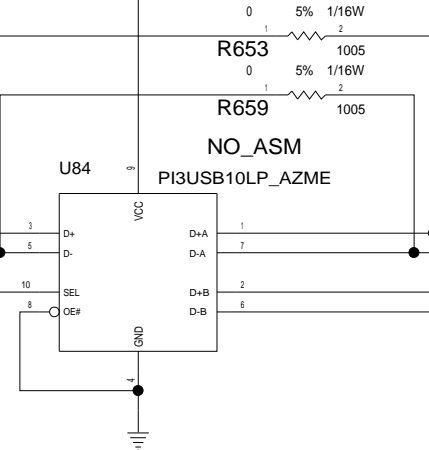
J28
PT08_077



VCC1R5_EXC
VCC3AUX_EXC
VCC3_EXC



VCC3M



USBP6+
USBP6-
USBAP0+
USBAP0-

34.4M<>
34.4M<>
56.7A<>
56.7A<>

-CPUSB

AO_CLK
AO_DATA

-PCIE_WAKE

-PERST

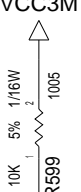
-CPPE

-PCIE_CLK_EXC
PCIE_CLK_EXC

PCIE_EXC_RXN
PCIE_EXC_RXP

PCIE_EXC_TXN
PCIE_EXC_TXP

VCC3M



-CLKREQ_EXC

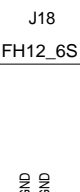
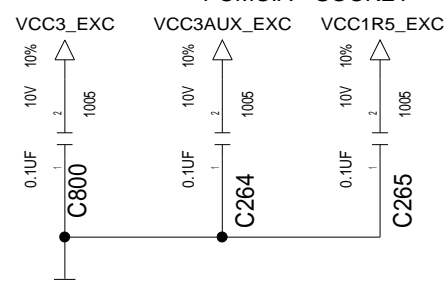
EXC_PWRG

TABLE

ALWAYS ON	REG	LITE/BB/NO
U84	ASM	NO_ASM
R653	NO_ASM	ASM
R659	NO_ASM	ASM

LOGIC

PLACE NEAR
PCMCIASOCKET

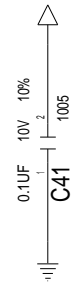


VCC5B

USBP5-
USBP5+
-SC_DTCT

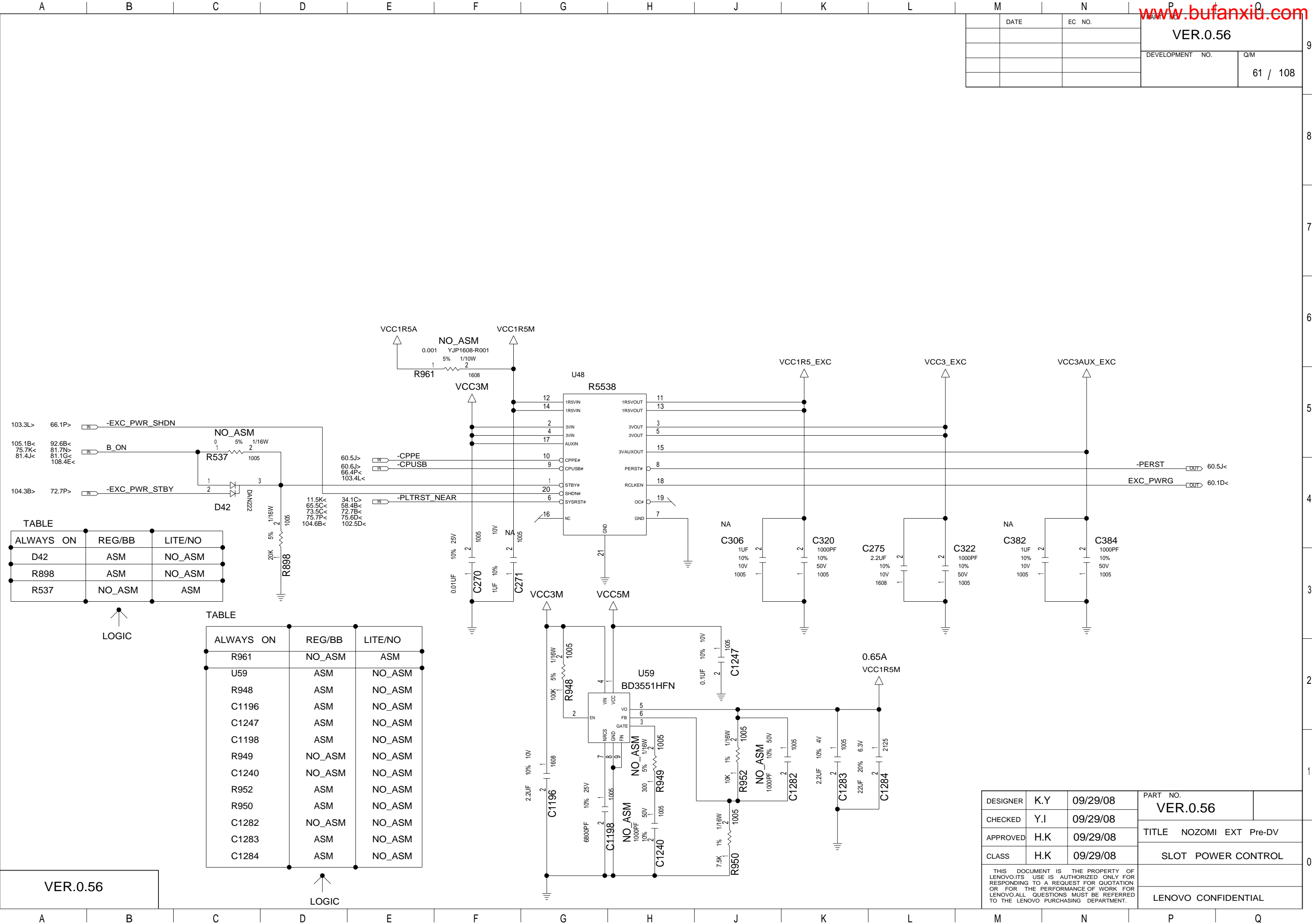
34.4M<>
34.4M<>
36.7A<

VCC5B



DESIGNER	K.Y	09/29/08	PART NO.	VER.0.56
CHECKED	Y.I	09/29/08	TITLE NOZOMI EXT Pre-DV	
APPROVED	H.K	09/29/08	EXPRESS CARD/ SMART CARD I/F	
CLASS	H.K	09/29/08	LENOVO CONFIDENTIAL	

PART NO.	VER.0.56
TITLE	NOZOMI EXT Pre-DV
SLOT POWER CONTROL	
LENOVO CONFIDENTIAL	



M		N		P		Q	
				www.bufanxiu.com			
DATE		EC NO.		VER.0.56			
				DEVELOPMENT NO.		Q/M	
						63 / 108	

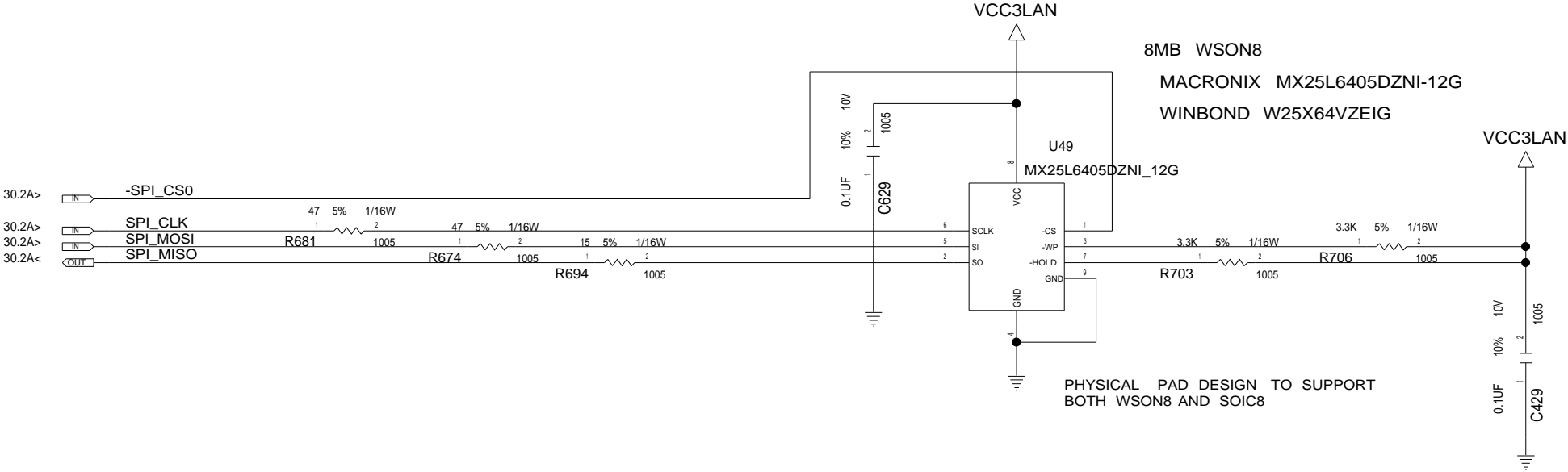


TABLE			
8MB WSON8 PIN	SIGNAL	8MB SOP16 PIN	
1	-CS	7	
2	SO	8	
3	-WP	9	
4	GND	10	
5	SI	15	
6	SCLK	16	
7	-HOLD	1	
8	VCC	2	

DESIGNER	K.Y	09/29/08	PART NO. VER.0.56	
CHECKED	Y.I	09/29/08		
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	SPI FLASH	
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DATE

EC NO.

J17 WD3M148UQ-1
5.5H CONNECTOR

J17
JAE_DOCK_148(1/3)

J17
JAE_DOCK_148(2/3)

J17
JAE_DOCK_148(3/3)

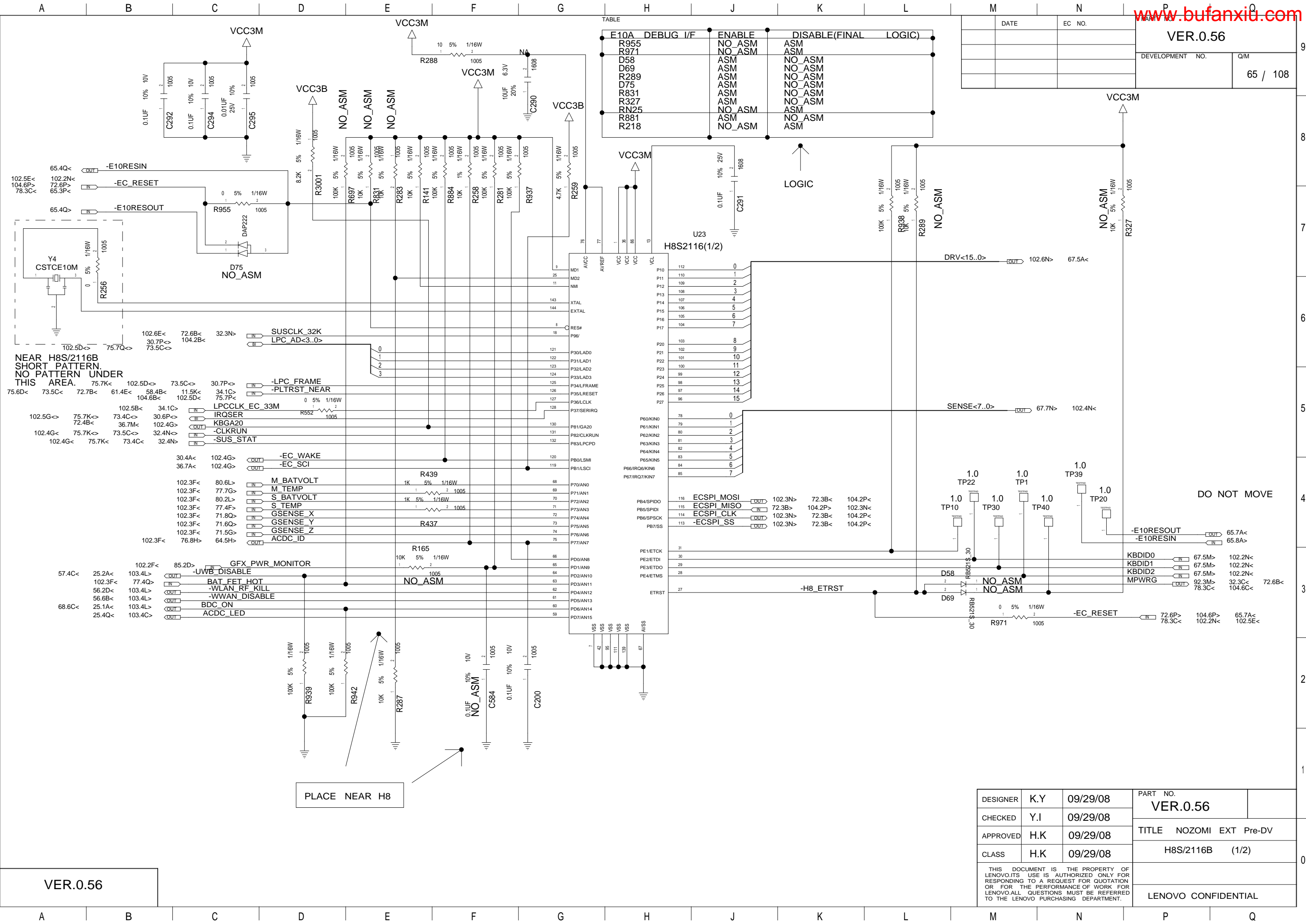
DOCK_DCIN20

DOCK_PWR20

VCC3SW

DOCK_PWR20_F

DESIGNER	K.Y	09/29/08	PART NO.	VER.0.56
CHECKED	Y.I	09/29/08	TITLE	NOZOMI EXT Pre-DV
APPROVED	H.K	09/29/08		
CLASS	H.K	09/29/08		
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DATE		EC NO.	
DEVELOPMENT NO.		Q/M	
		66 / 108	

TEST PAD X2
BOTTOM SIDE
DO NOT MOVE AFTER FIX
H8
I2C BUS2

TP42
1.0

TP43
1.0

EC_SCL2 31.6M<> 66.3B< 74.6E< 103.6C<
EC_SDA2 31.6M<> 74.6E<> 66.3B< 103.5C<

VCC3B

R919

D7

R269

R892

R252

R263

R277

R935

R1012

R1041

R1042

R925

R930

R891

R929

R218

R925

R930

R891

R929

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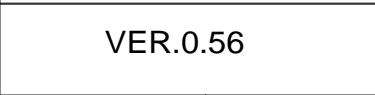
R930

R891

R929

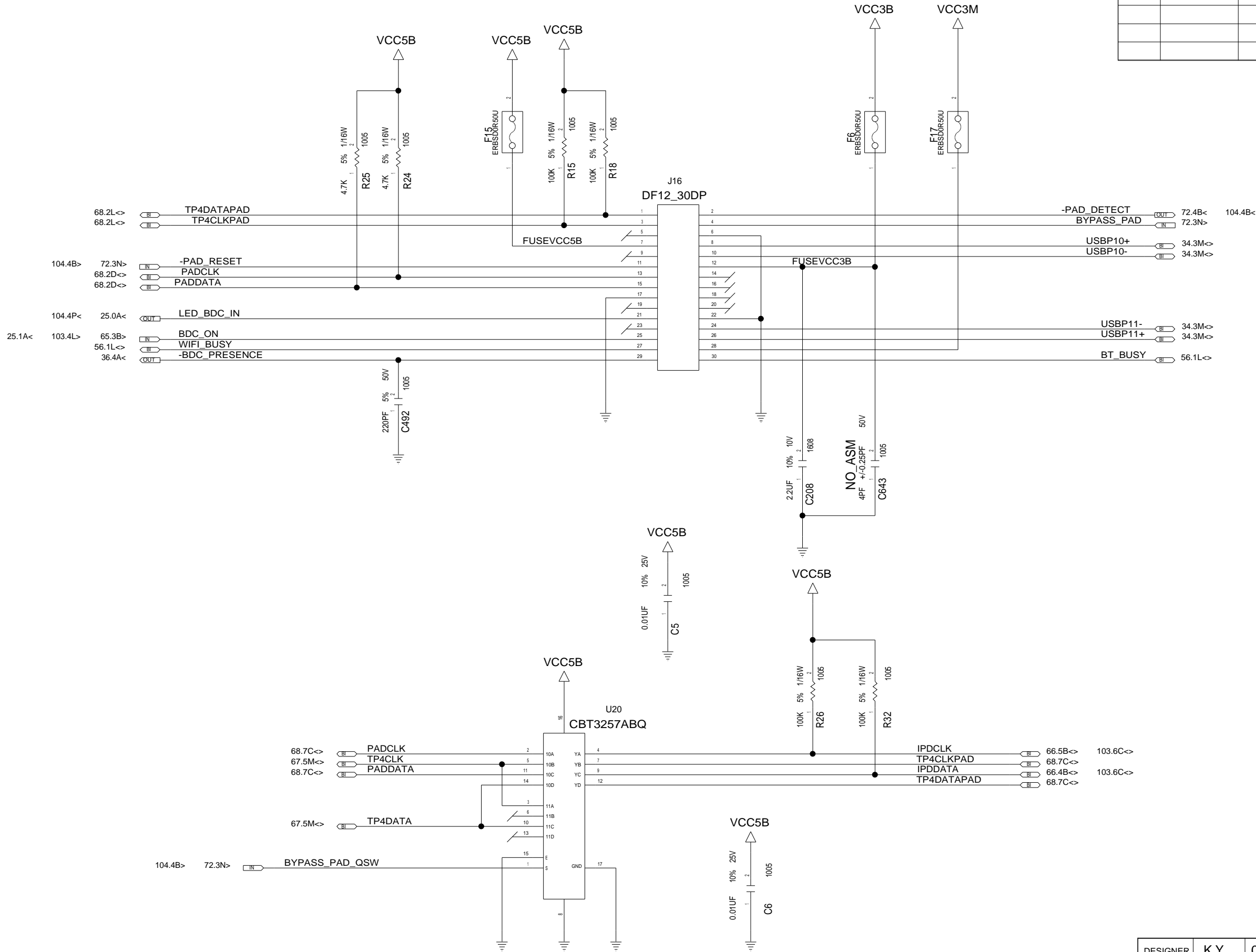
R218

R9



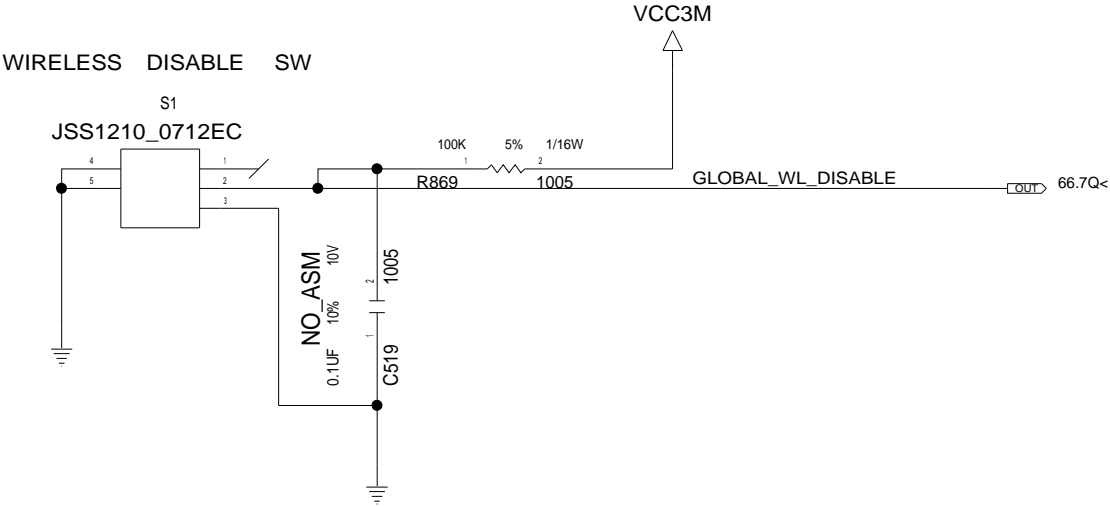
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CHECKED	Y.I	09/29/08			
APPROVED	H.K	09/29/08		TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08		KEYBOARD CONNECTOR	
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DATE		EC NO.		VER.0.56	
DEVELOPMENT NO.		NO.		Q/M	
				68 / 108	



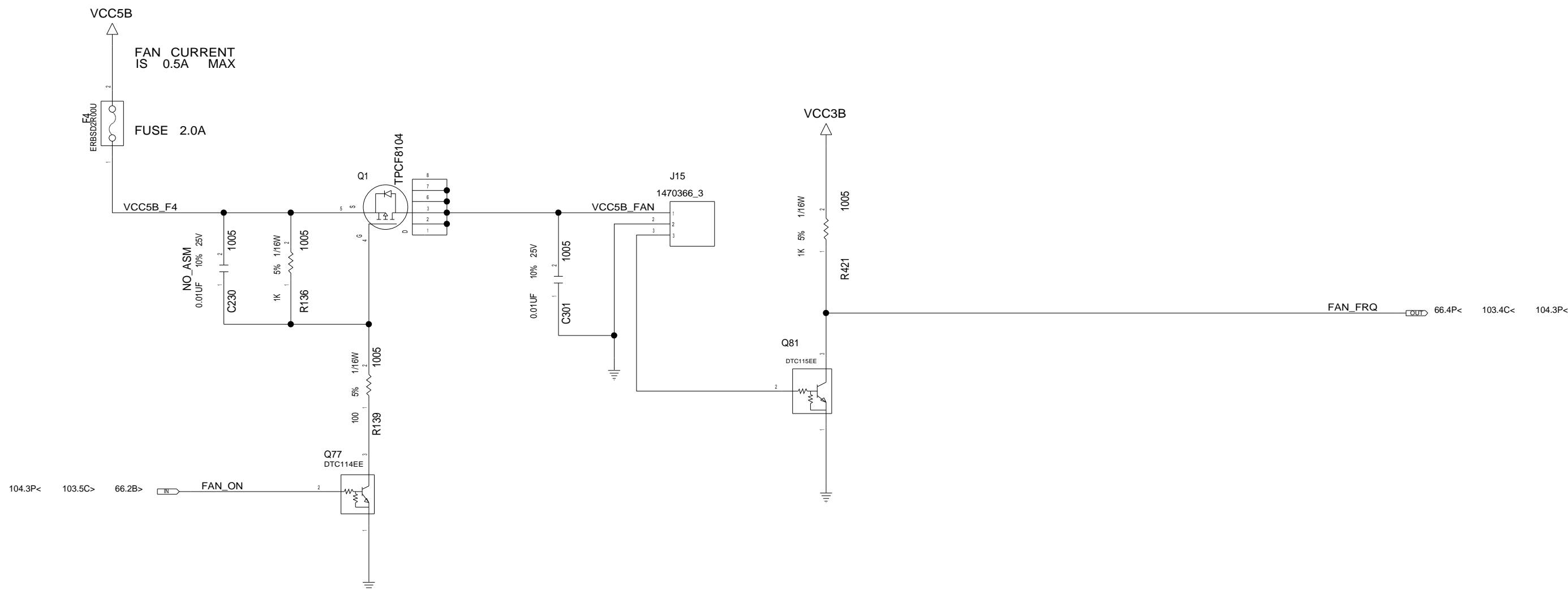
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CHECKED	Y.I	09/29/08	VER.0.56	
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	TOUCH PAD CONNECTOR	
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M		N		P		Q	
		DATE		EC NO.		VER.0.56	
				DEVELOPMENT NO.		Q/M	
						69 / 108	



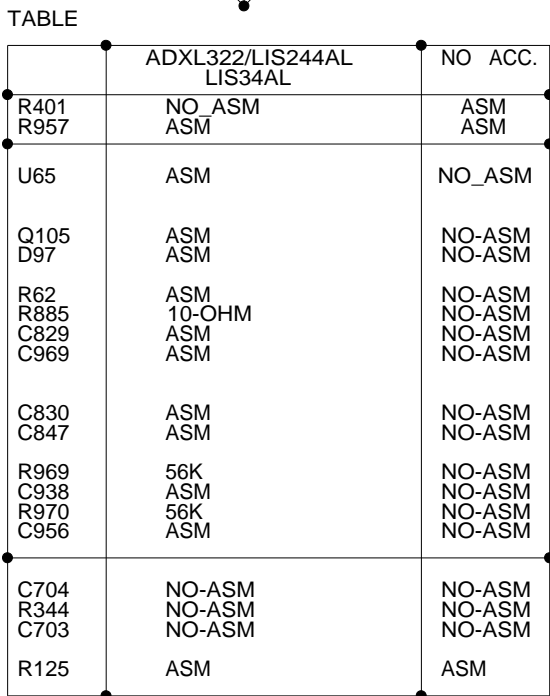
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CHECKED	Y.I	09/29/08	VER.0.56	
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	WIRELESS DISABLE SW	
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	DATE	EC NO.	www.bufanxiu.com VER.0.56
			DEVELOPMENT NO.
			Q/M
			70 / 108



DESIGNER	K.Y	09/29/08	PART NO. VER.0.56	
CHECKED	Y.I	09/29/08		
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	FAN CONNECTOR	
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VER.0.56



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CHECKED	Y.I	09/29/08		
APPROVED	H.K	09/29/08		TITLE NOZOMI EXT Pre-DV
CLASS	H.K	09/29/08		G-SENSOR
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VER.0.56

DEVELOPMENT NO.

Q/M
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DATE

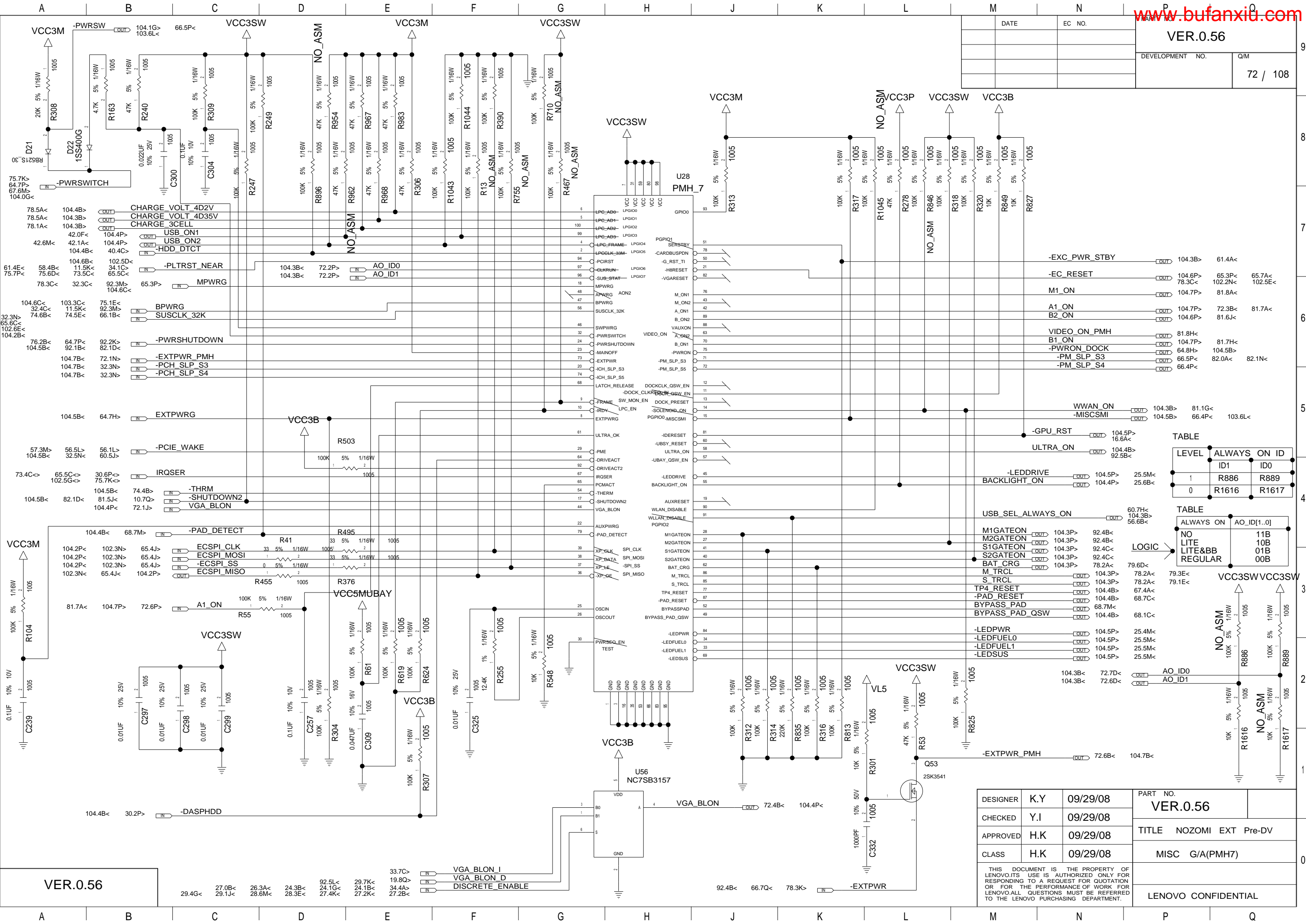
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DESIGNER K.Y 09/29/08
CHECKED Y.I 09/29/08
APPROVED H.K 09/29/08
CLASS H.K 09/29/08

PART NO.
VER.0.56
TITLE NOZOMI EXT Pre-DV
MISC G/A(PMH7)

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TABLE

LEVEL	ALWAYS ON ID1	ID0
1	R886	R889
0	R1616	R1617

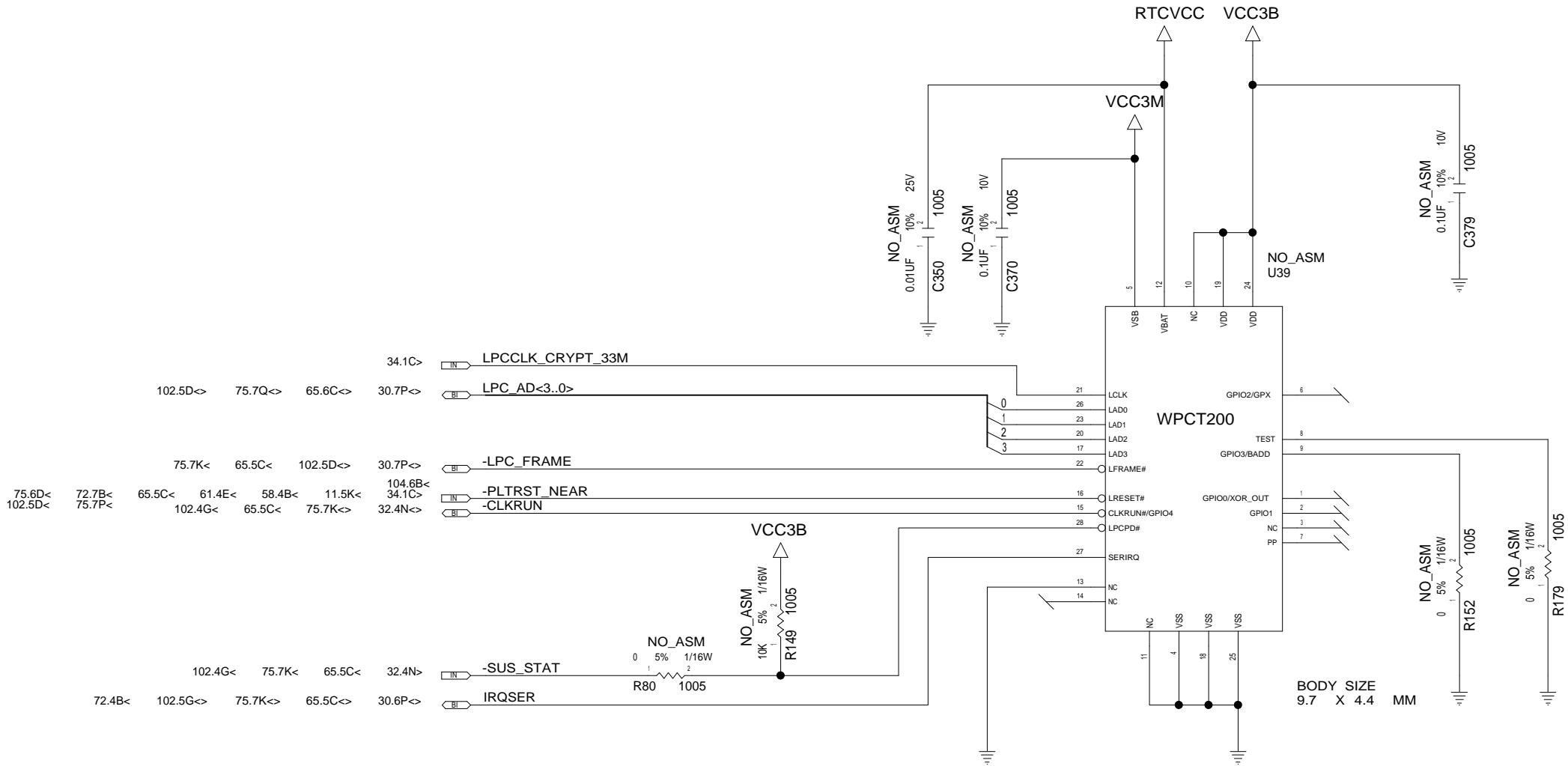
TABLE

ALWAYS ON	AO_ID[1..0]
NO LITE & BB	11B
REGULAR	10B
	01B
	00B

LOGIC

VCC3SW VCC3S

DATE		EC NO.		VER.0.56	
DEVELOPMENT NO.		Q/M		73 / 108	



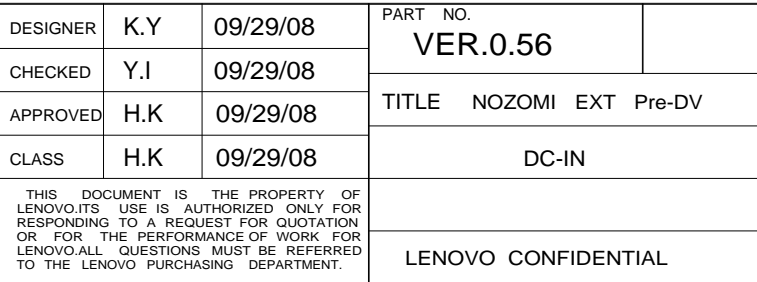
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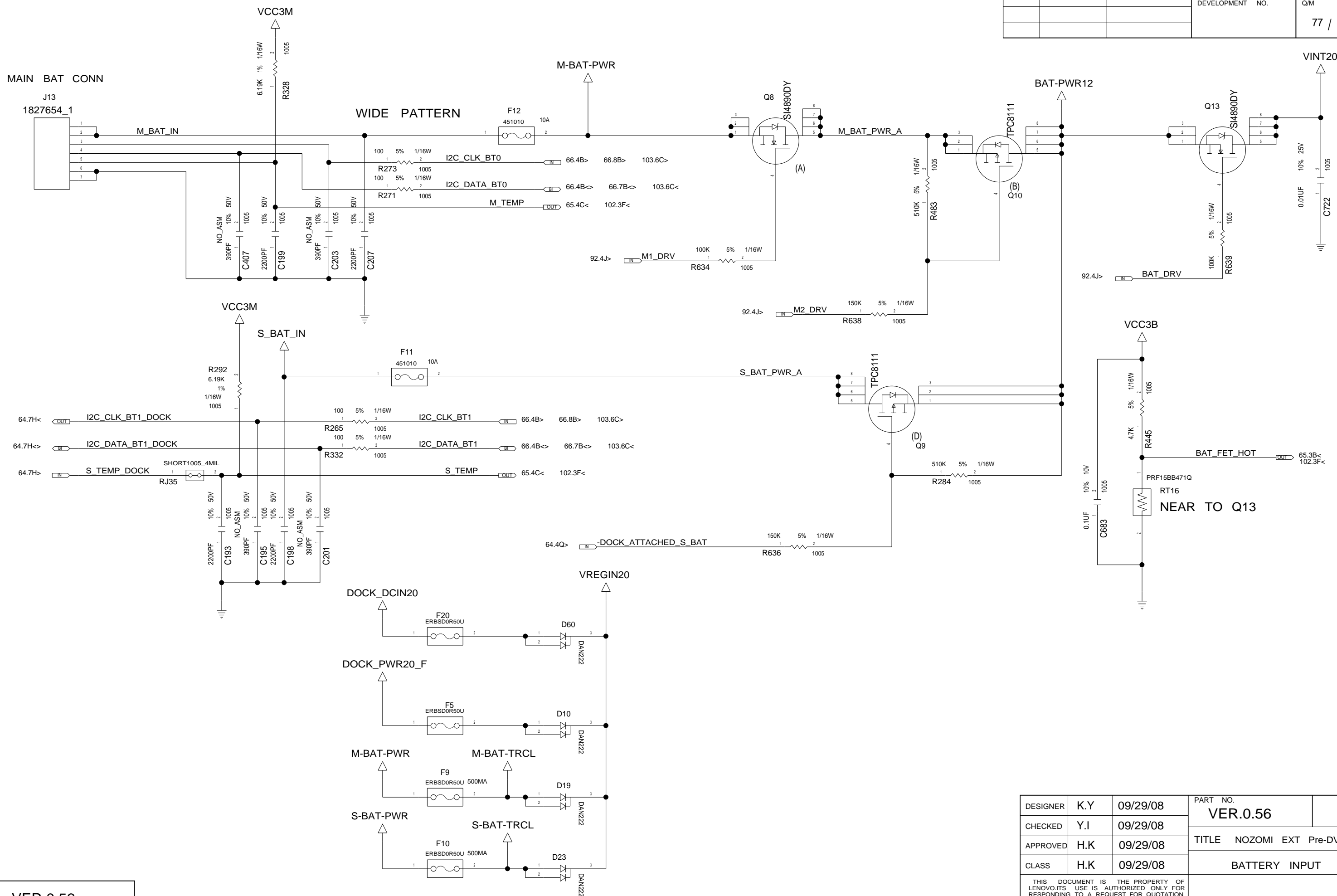
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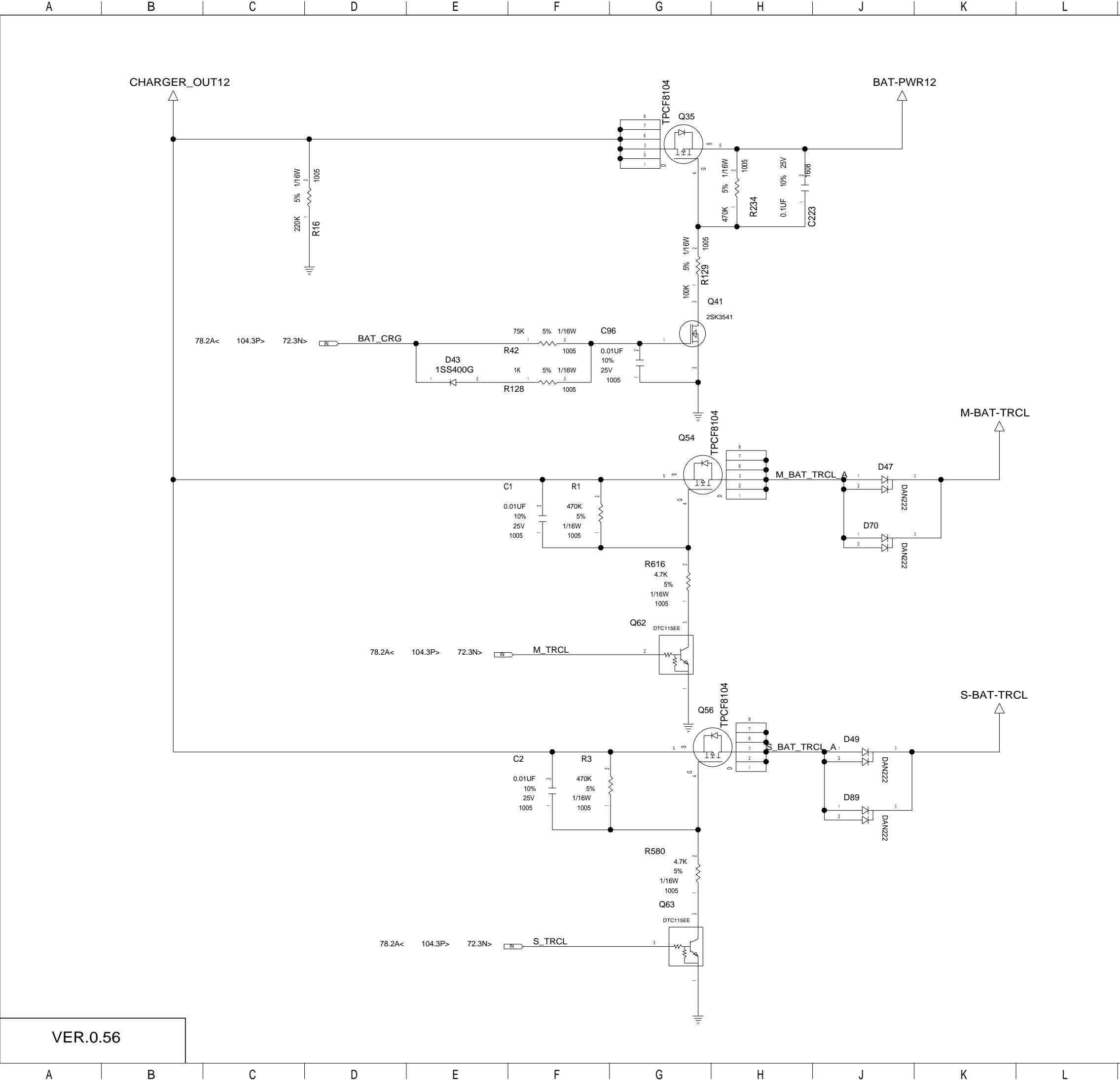


PART NO.
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BATTERY CHARGER

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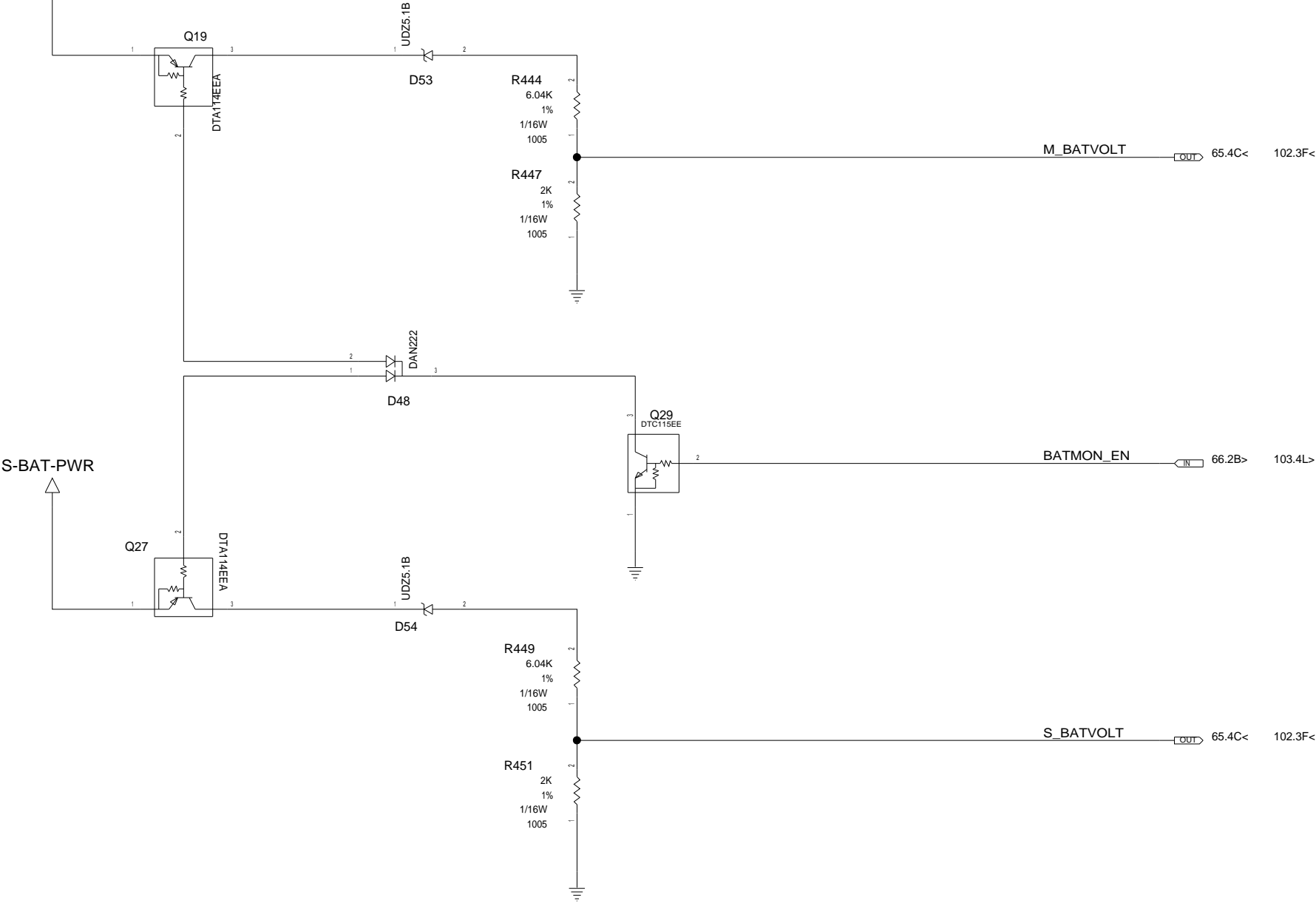
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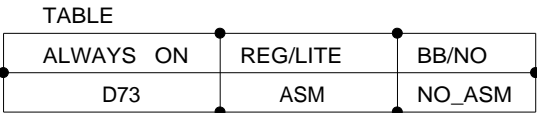
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S-BAT-PWR



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CLASS	H.K	09/29/08		POWER SEQUENCE
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APPROVED H.K 09/29/08

CLASS H.K 09/29/08

PART NO.

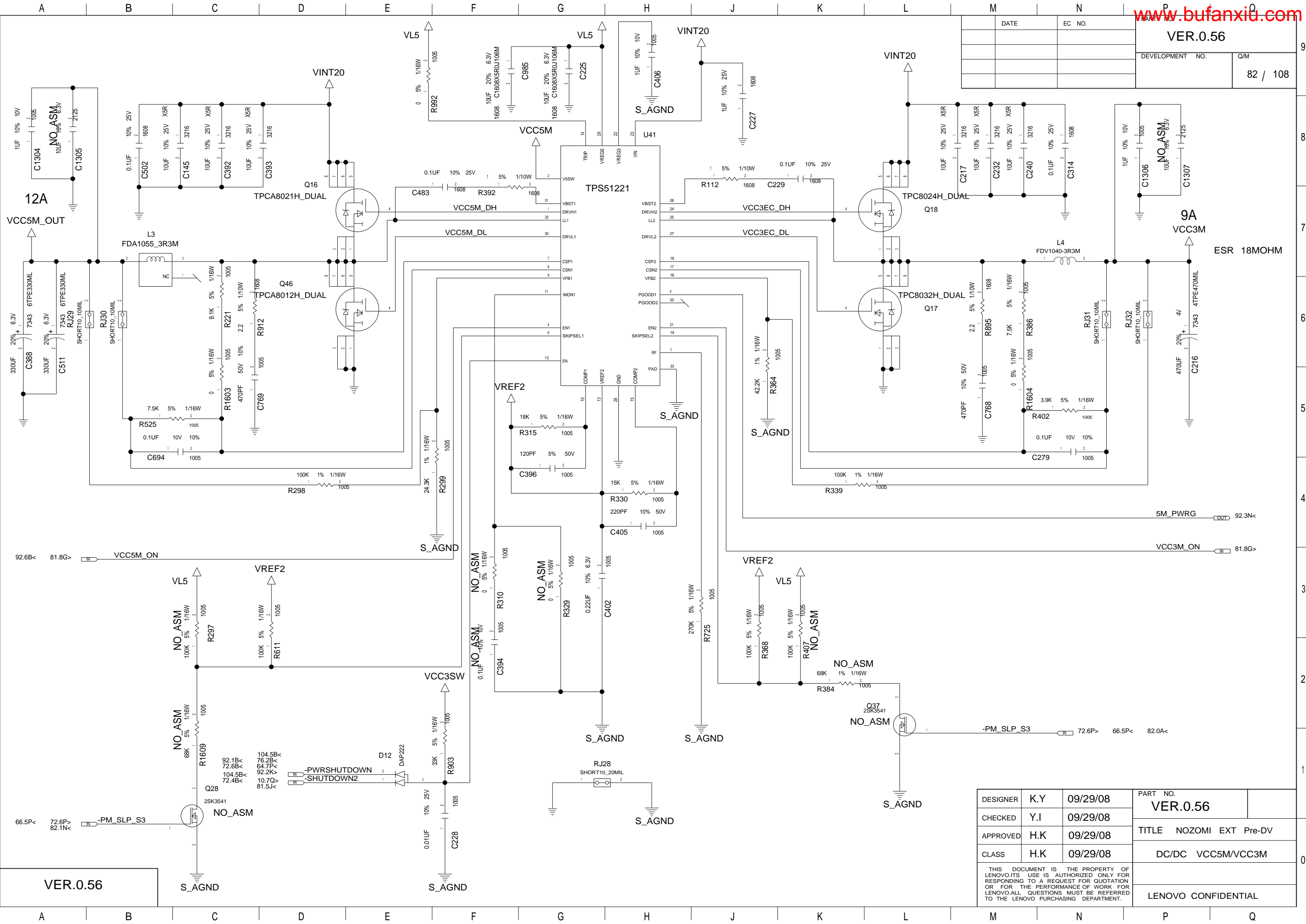
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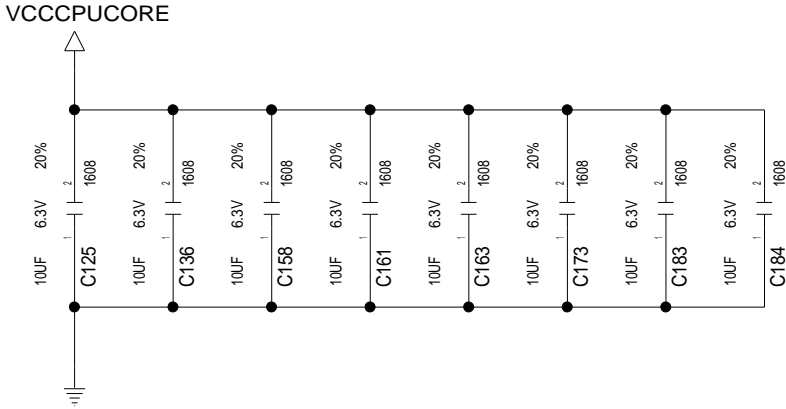
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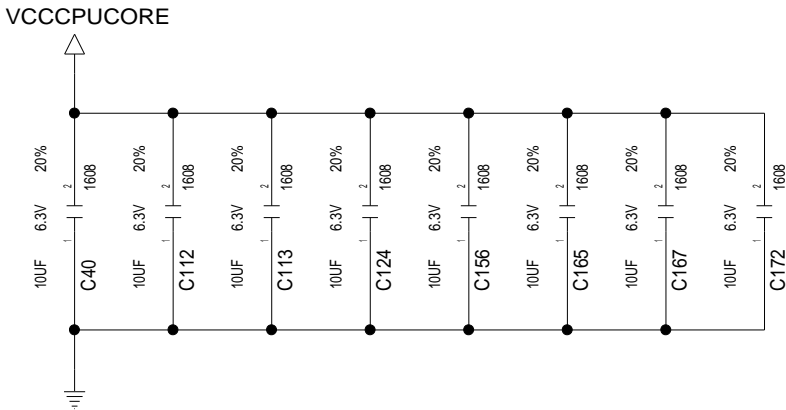
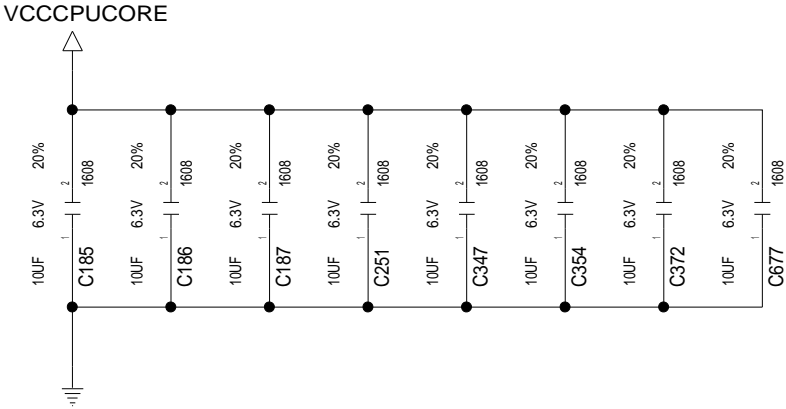
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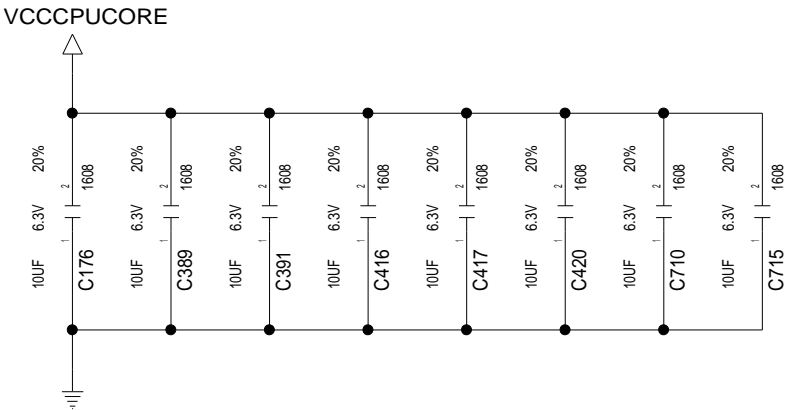
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10UF 6.3V X5R 1608 1/16W X 16PCS



10UF 6.3V X5R 1608 1/16W X 16PCS



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TITLE NOZOMI EXT Pre-DV

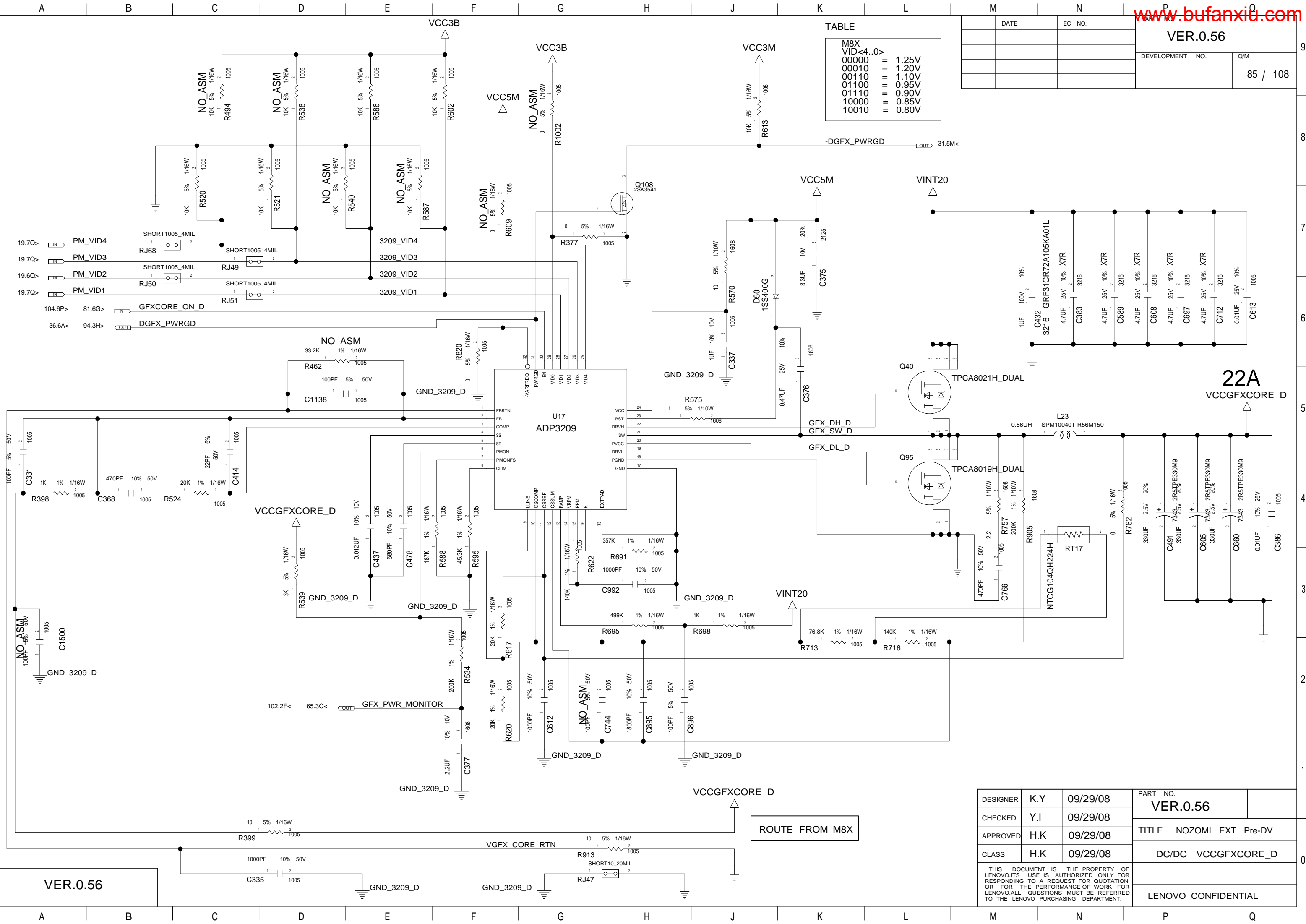
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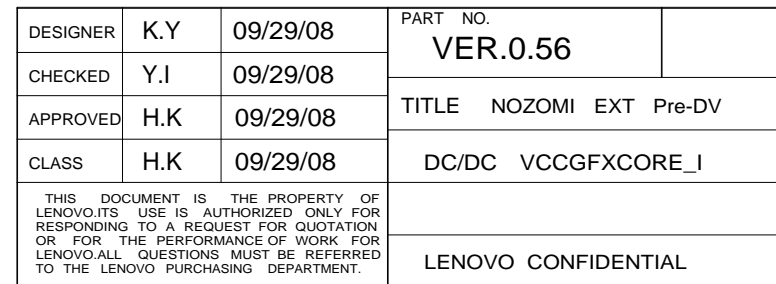
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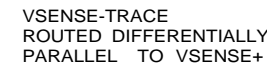
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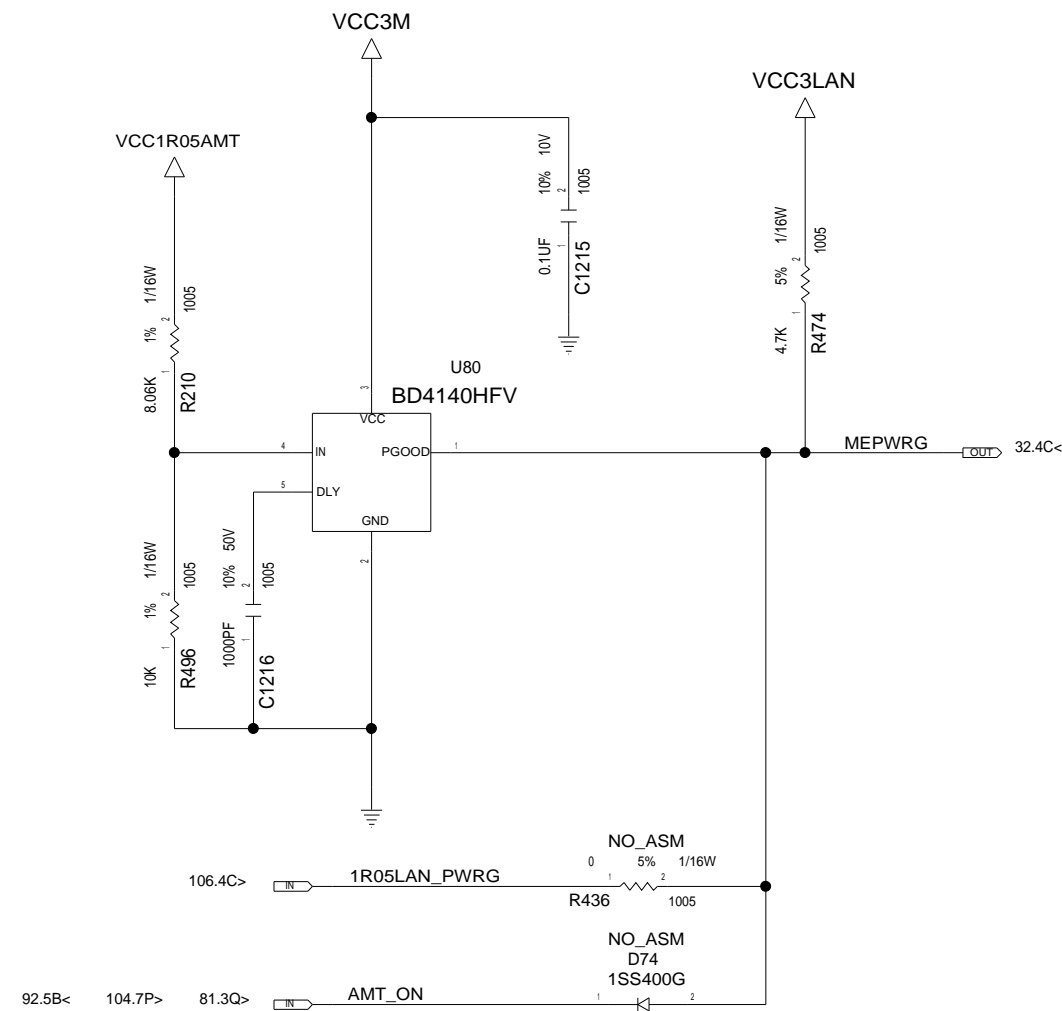
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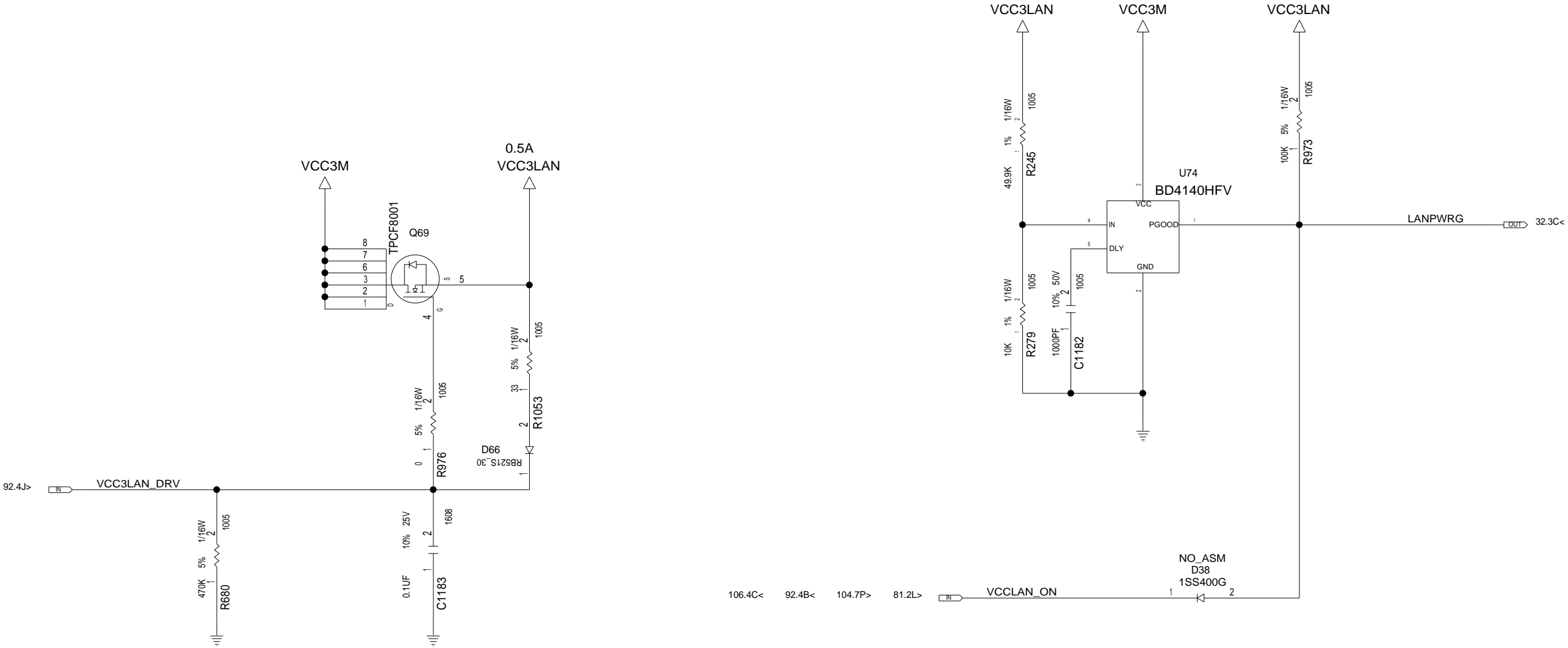
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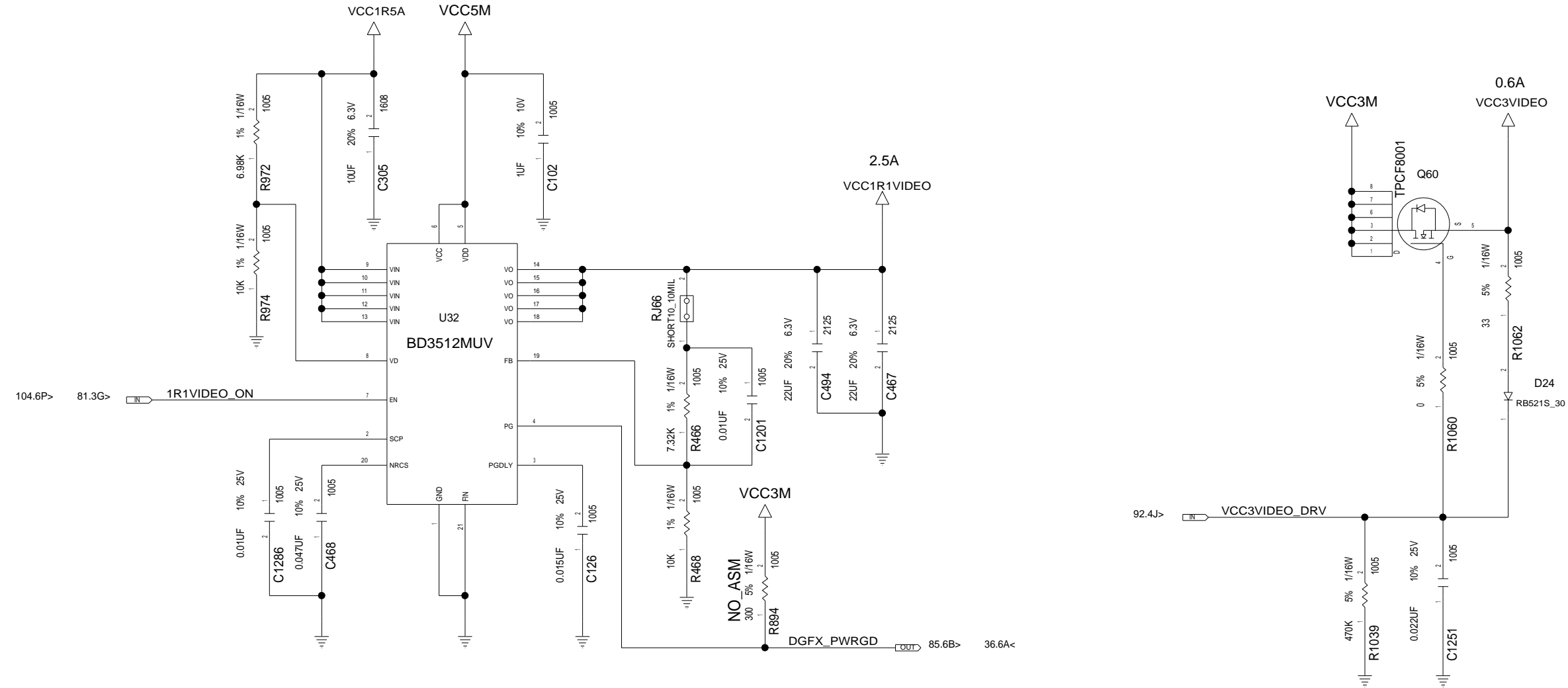
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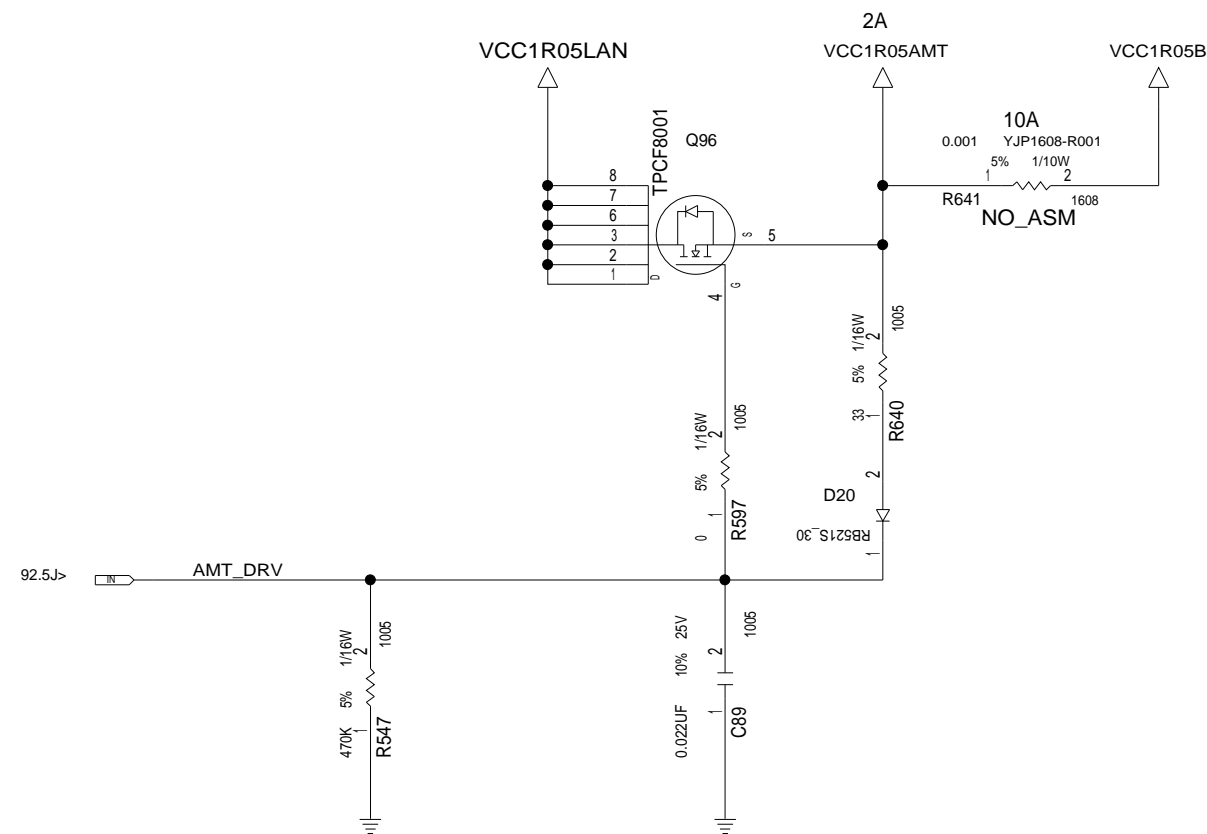
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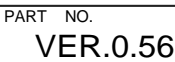
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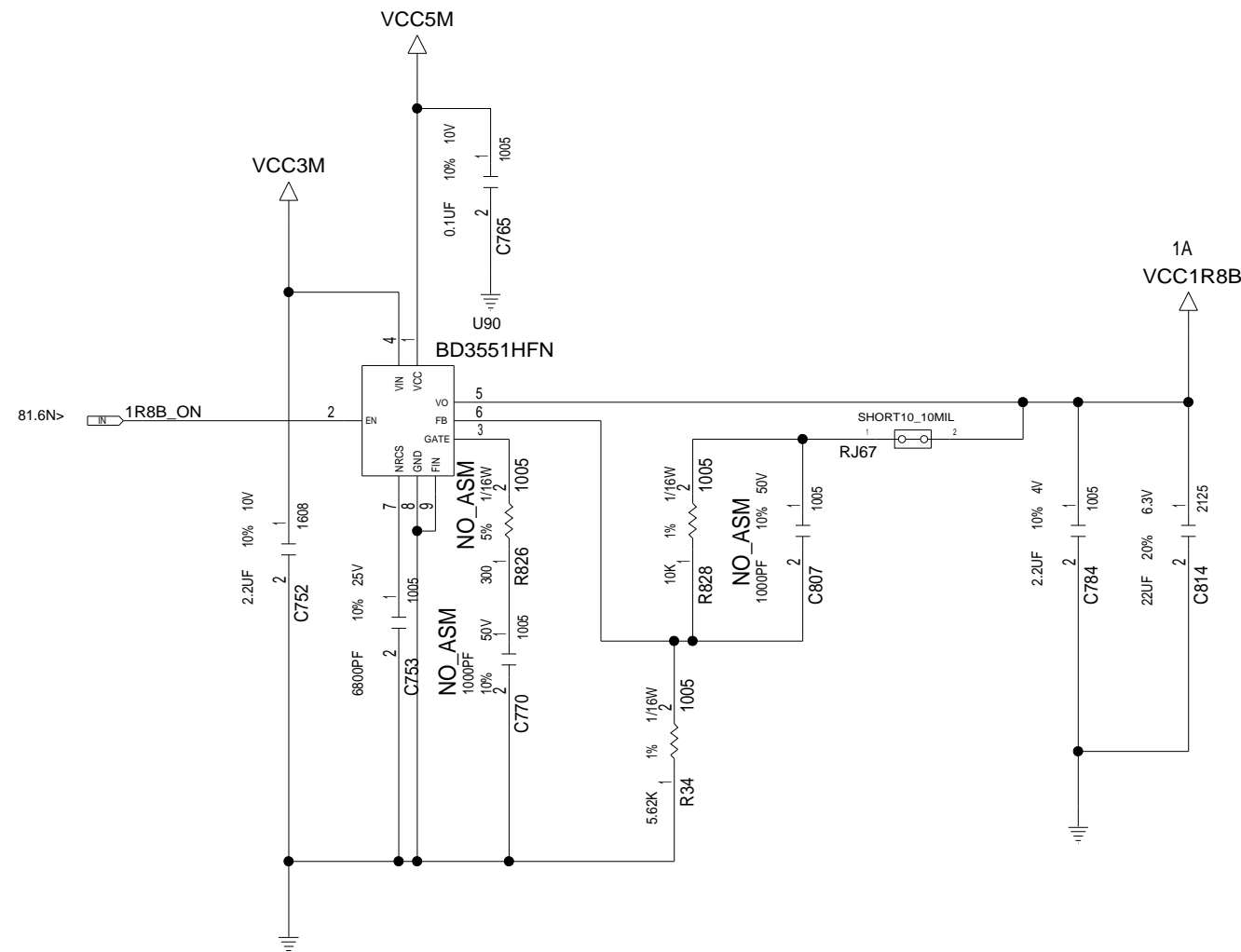


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96 / 108LOAD SW B

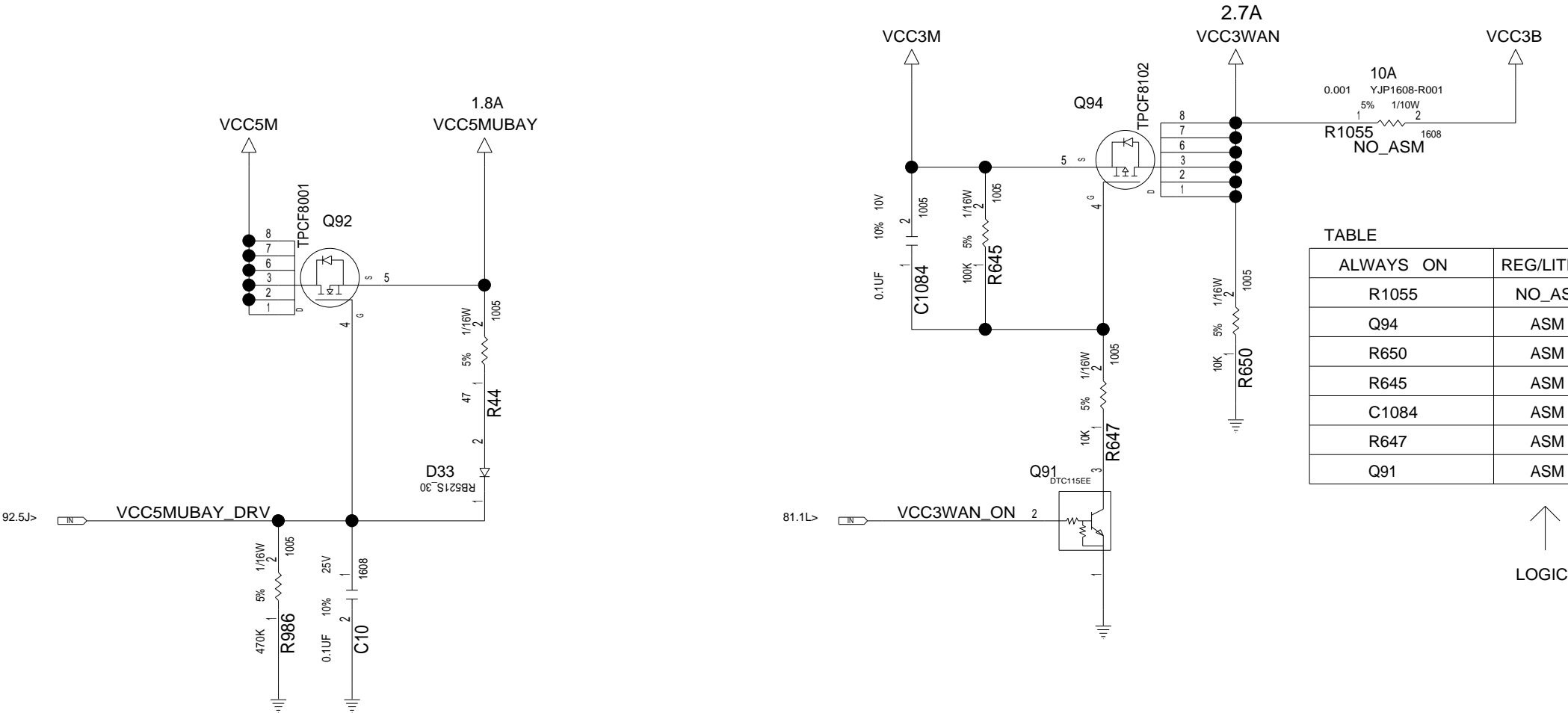
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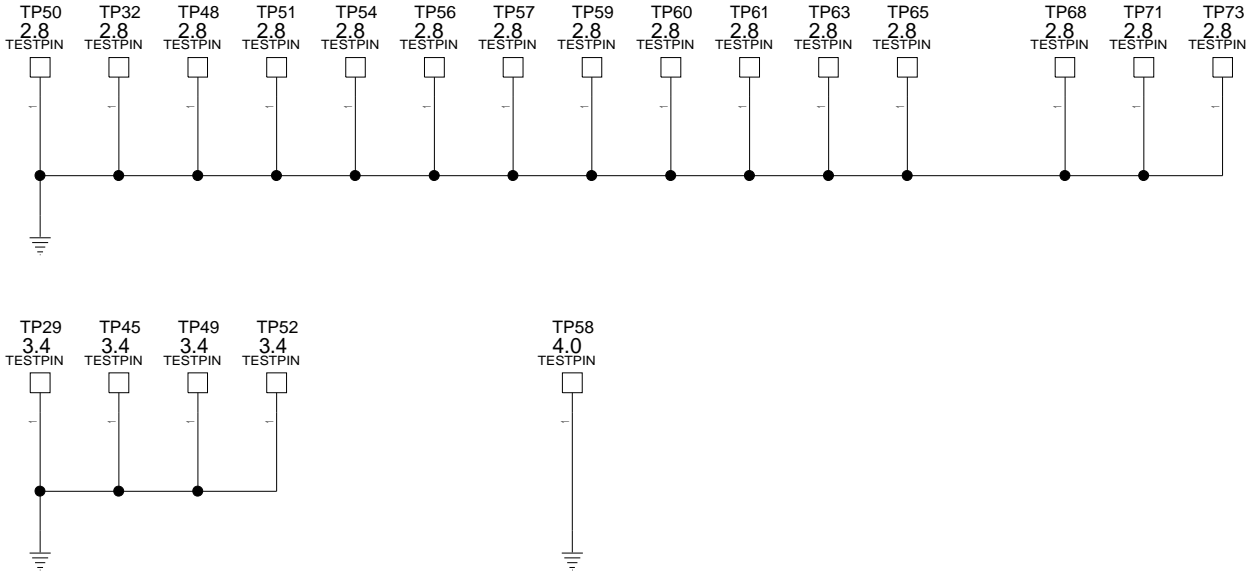
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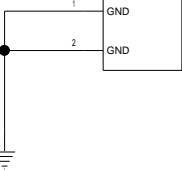
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PTH FOR SCREW HOLE



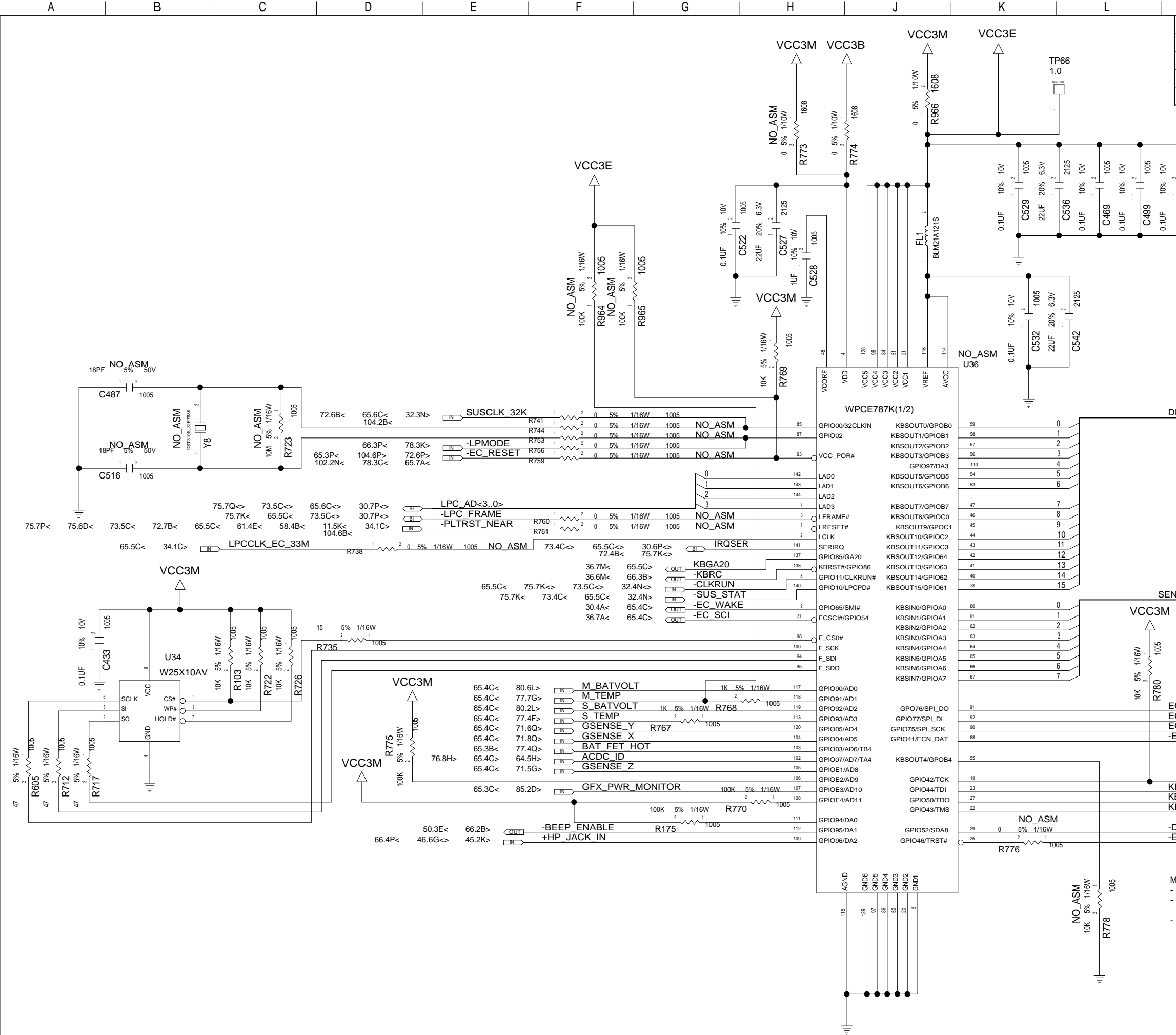
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CONTACT FOR FAN MODULE

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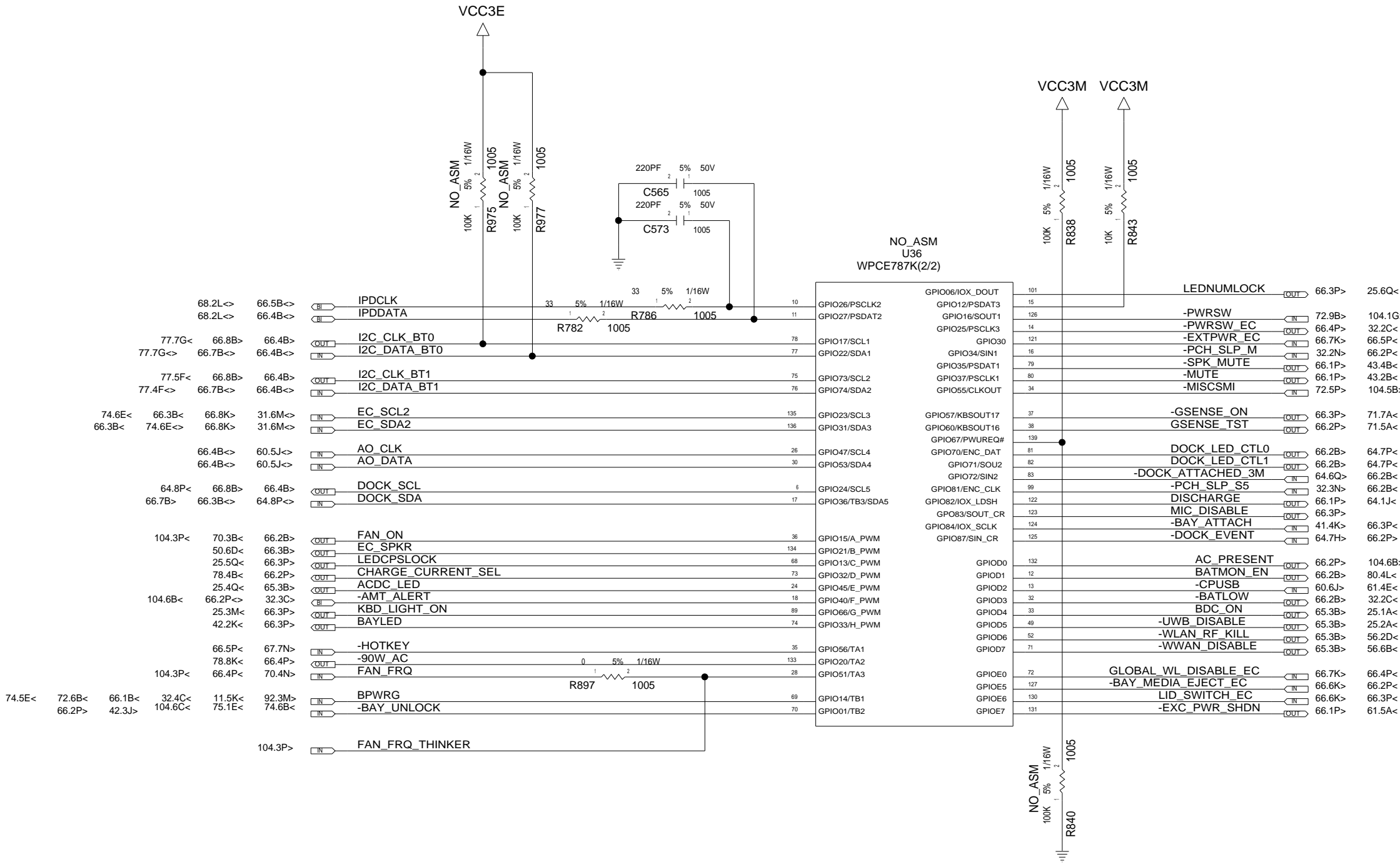
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MEMO:
- NEED TO CONSIDER DEBUG LOGIC
- NEED TO MOVE PULL-UP/DOWN,
DUMPERS,CAPS FROM H8 PAGES.
- NEED TO CHANGE SIGNAL NAME
"H8XXX"->"EC_XXX"

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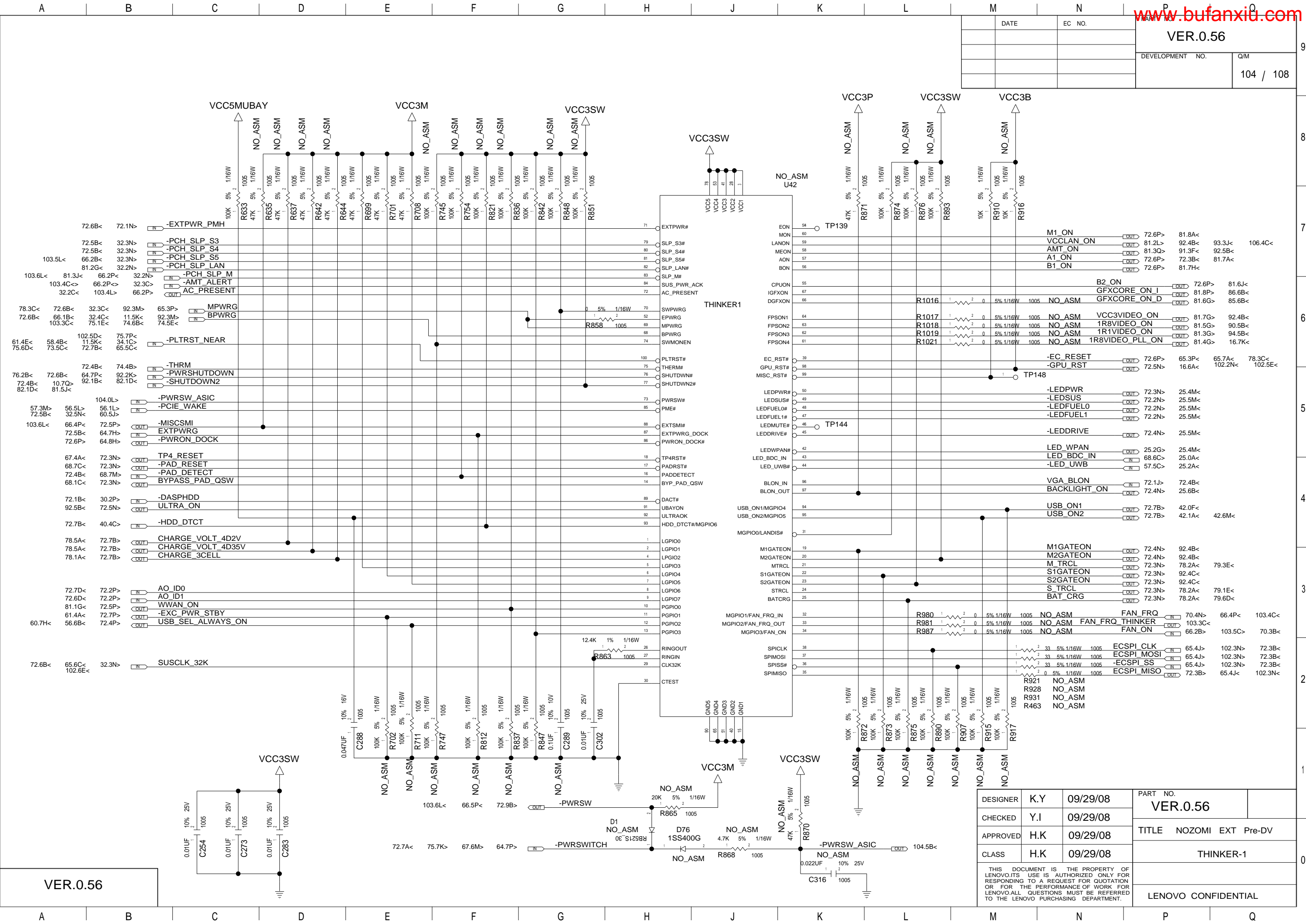
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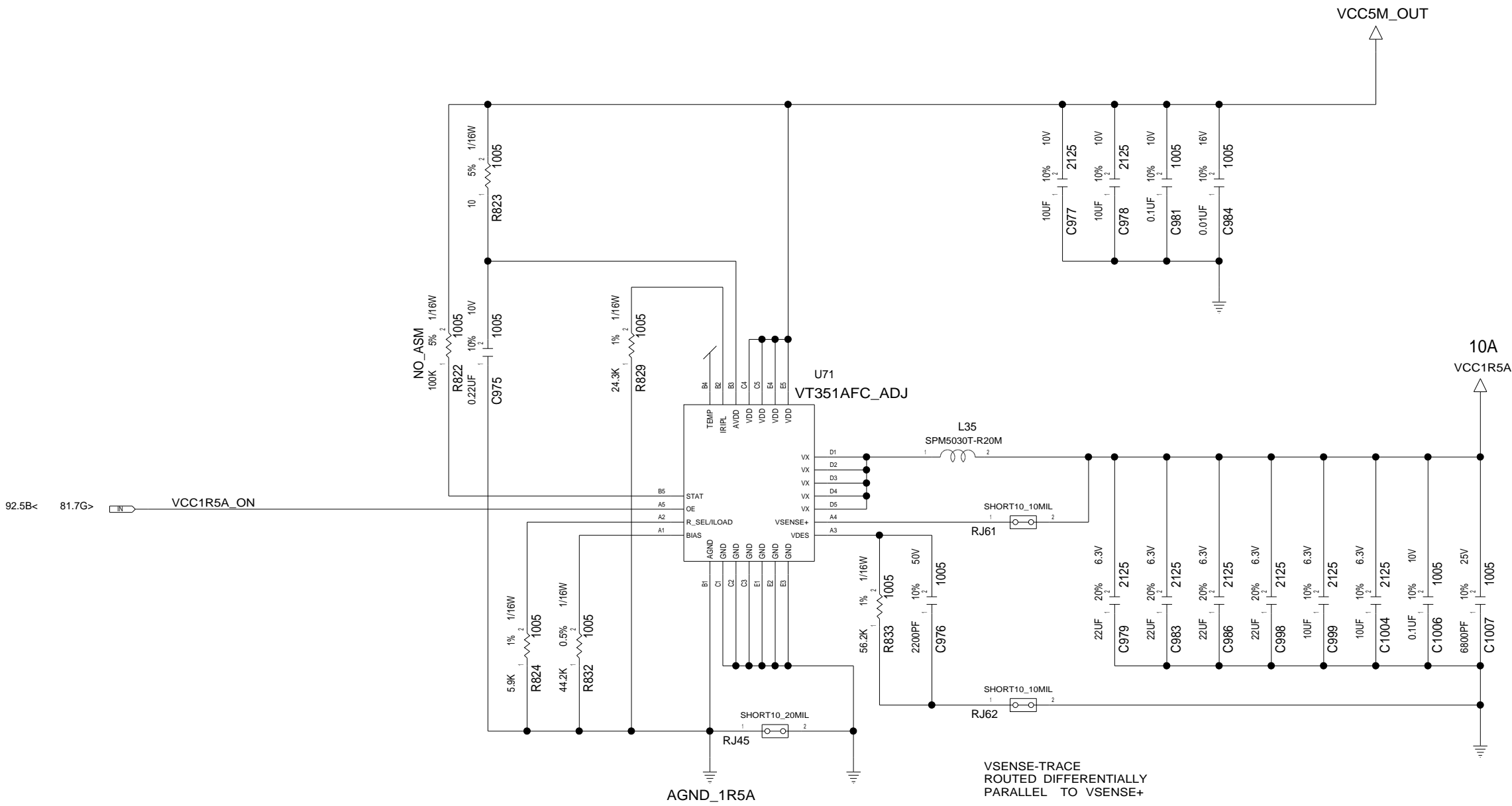
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