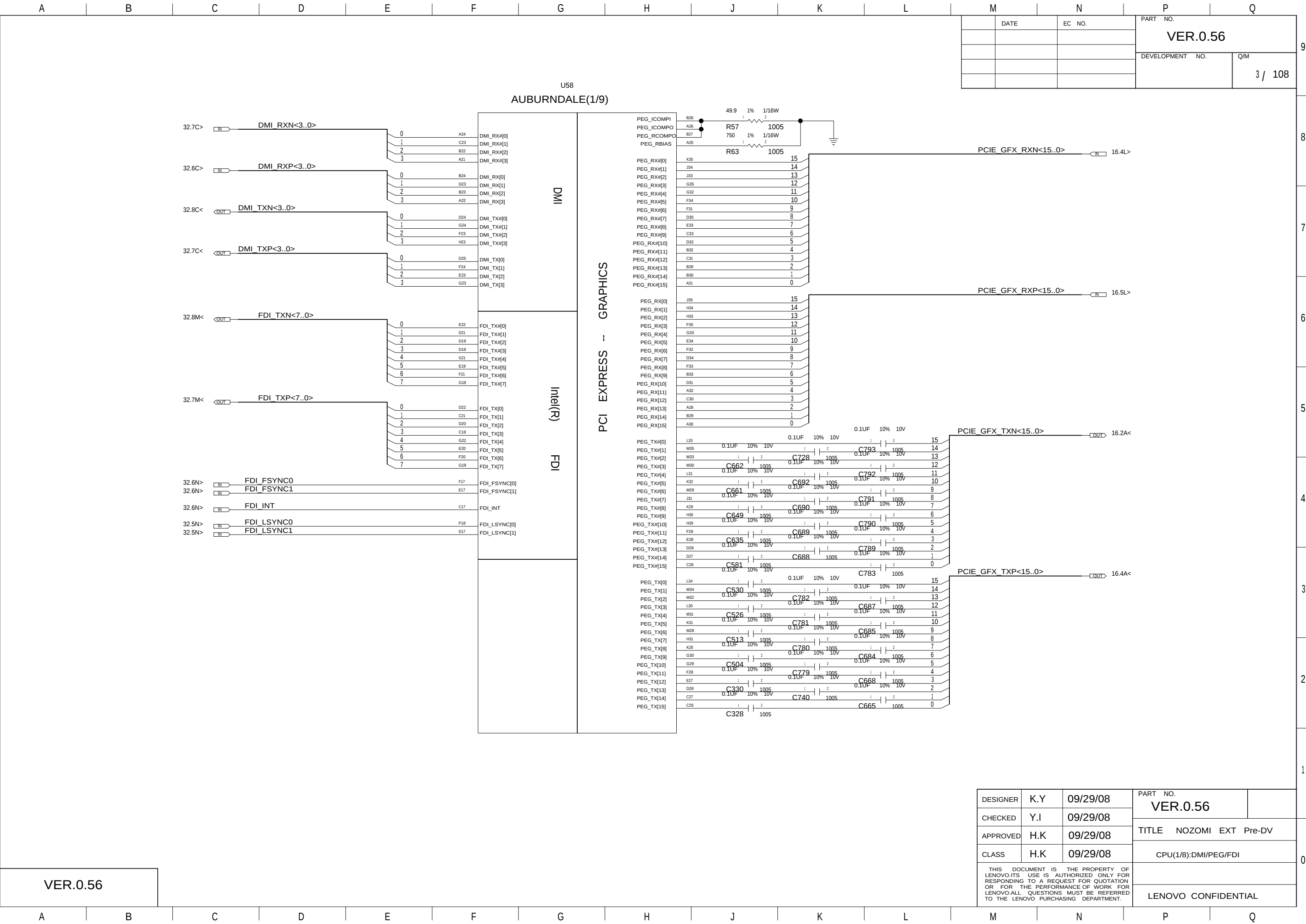
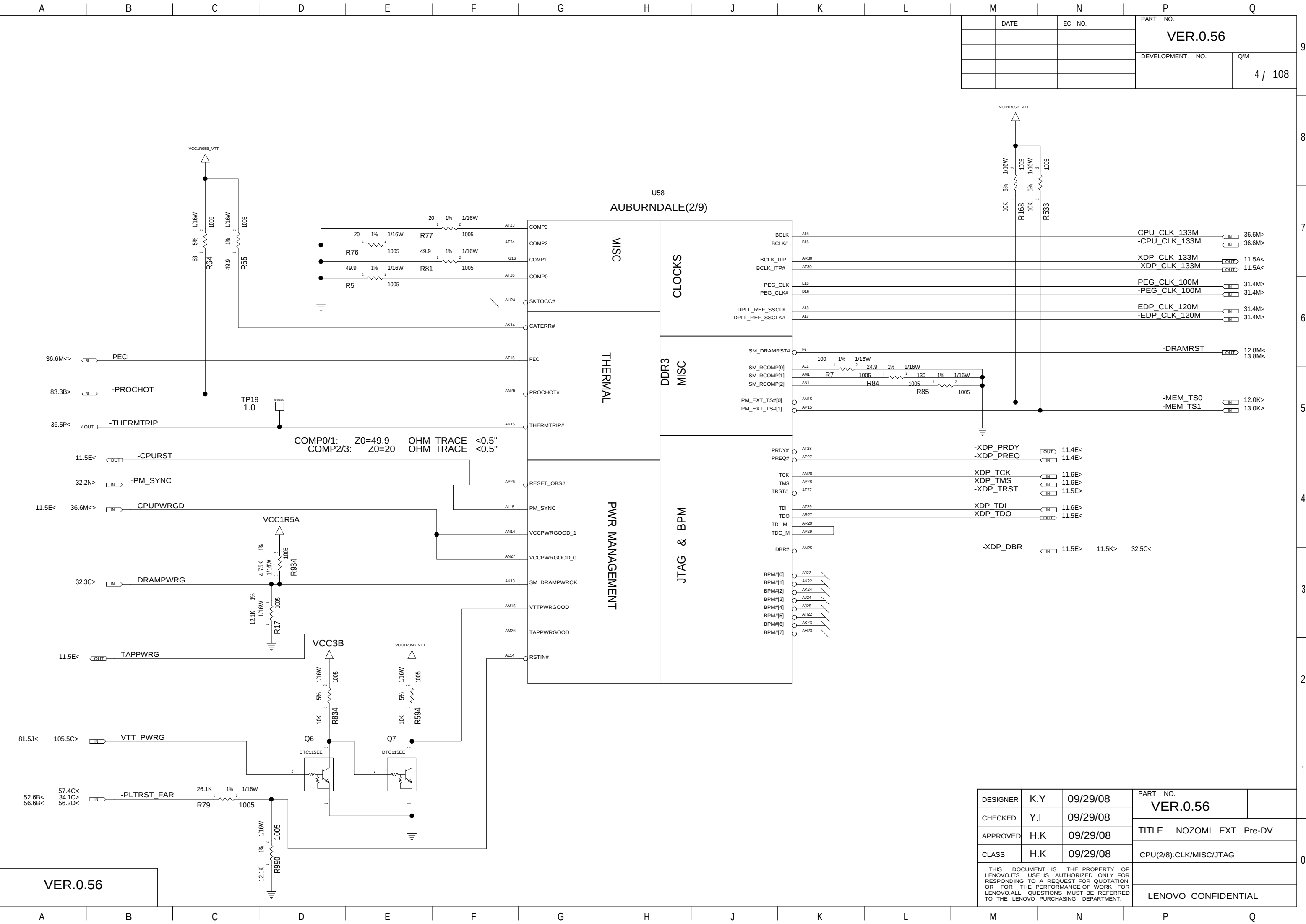


A		B		C		D		E		F		G		H		J		K		L		M		N		P		Q									
EC HISTORY																								DATE		EC NO.		PART NO.				VER.0.56				9	
																																DEVELOPMENT NO.		Q/M			
																																		2 / 108			
NOZOMI-1		PRE-DV		:BASE		LOGIC		COR5		EXT		SOVP		VER.6.01		04/07/2008																					
VER.0.01		07/01/2008				APPLIED		PDV_EC001-009				VER.0.47		09/04/2008		APPLIED		PDV_EC320-334																			
VER.0.02		07/02/2008				APPLIED		PDV_EC010-019				VER.0.48		09/05/2008		APPLIED		PDV_EC335-344																			
VER.0.03		07/03/2008				APPLIED		PDV_EC020-031				VER.0.49		09/08/2008		APPLIED		PDV_EC345,346																			
VER.0.04		07/04/2008				APPLIED		PDV_EC032-040				VER.0.50		09/09/2008		APPLIED		PDV_EC347-350																			
VER.0.05		07/07/2008				APPLIED		PDV_EC041-049				VER.0.51		09/10/2008		APPLIED		PDV_EC351-357																			
VER.0.06		07/08/2008				APPLIED		PDV_EC050-060				VER.0.52		09/11/2008		APPLIED		PDV_EC358,359,361																			
VER.0.07		07/09/2008				APPLIED		PDV_EC061-071				VER.0.53		09/12/2008		APPLIED		PDV_EC362-370																			
VER.0.08		07/10/2008				APPLIED		PDV_EC072-079				VER.0.54		09/16/2008		APPLIED		PDV_EC371,372																			
VER.0.09		07/11/2008				APPLIED		PDV_EC080-087				VER.0.55		09/26/2008		APPLIED		PDV_EC373																			
VER.0.10		07/14/2008				APPLIED		PDV_EC088-099				VER.0.56		09/29/2008		APPLIED		PDV_EC374																			
VER.0.11		07/15/2008				APPLIED		PDV_EC100-103																													
VER.0.12		07/16/2008				APPLIED		PDV_EC104-109																													
VER.0.13		07/17/2008				APPLIED		PDV_EC110-113																													
VER.0.14		07/18/2008				APPLIED		PDV_EC114-118																													
VER.0.15		07/22/2008				APPLIED		PDV_EC119																													
VER.0.16		07/23/2008				APPLIED		PDV_EC120,121																													
VER.0.17		07/24/2008				APPLIED		PDV_EC122-124																													
VER.0.18		07/25/2008				APPLIED		PDV_EC125,126																													
VER.0.19		07/28/2008				APPLIED		PDV_EC127																													
VER.0.20		07/29/2008				APPLIED		PDV_EC128,129																													
VER.0.21		07/30/2008				APPLIED		PDV_EC131-133,135,136																													
VER.0.22		07/31/2008				APPLIED		PDV_EC137-143																													
VER.0.23		08/01/2008				APPLIED		PDV_EC144-155,157,158,160,161																													
VER.0.24		08/04/2008				APPLIED		PDV_EC159,162-173																													
VER.0.25		08/05/2008				APPLIED		PDV_EC174-182																													
VER.0.26		08/06/2008				APPLIED		PDV_EC173-186																													
VER.0.27		08/07/2008				APPLIED		PDV_EC187,188,190-193																													
VER.0.28		08/08/2008				APPLIED		PDV_EC194-210																													
VER.0.29		08/11/2008				APPLIED		PDV_EC212-215,218,219																													
VER.0.30		08/12/2008				APPLIED		PDV_EC216,217,220,221																													
VER.0.31		08/13/2008				APPLIED		PDV_EC222-225																													
VER.0.32		08/14/2008				APPLIED		PDV_EC226-231																													
VER.0.33		08/15/2008				APPLIED		PDV_EC232-244																													
VER.0.34		08/18/2008				APPLIED		PDV_EC246,247,249,250																													
VER.0.35		08/19/2008				APPLIED		PDV_EC245,251-255																													
VER.0.36		08/20/2008				APPLIED		PDV_EC256-259																													
VER.0.37		08/21/2008				APPLIED		PDV_EC260-263																													
VER.0.38		08/22/2008				APPLIED		PDV_EC264-268																													
VER.0.39		08/25/2008				APPLIED		PDV_EC269-271																													
VER.0.40		08/26/2008				APPLIED		PDV_EC272-275																													
VER.0.41		08/27/2008				APPLIED		PDV_EC276-283																													
VER.0.42		08/28/2008				APPLIED		PDV_EC284-291																													
VER.0.43		08/29/2008				APPLIED		PDV_EC292-295																													
VER.0.44		09/01/2008				APPLIED		PDV_EC296,298-300,302-304																													
VER.0.45		09/02/2008				APPLIED		PDV_EC305-314																													
VER.0.46		09/03/2008				APPLIED		PDV_EC315-319																													
VER.0.56																																					
A		B		C		D		E		F		G		H		J		K		L		M		N		P		Q									

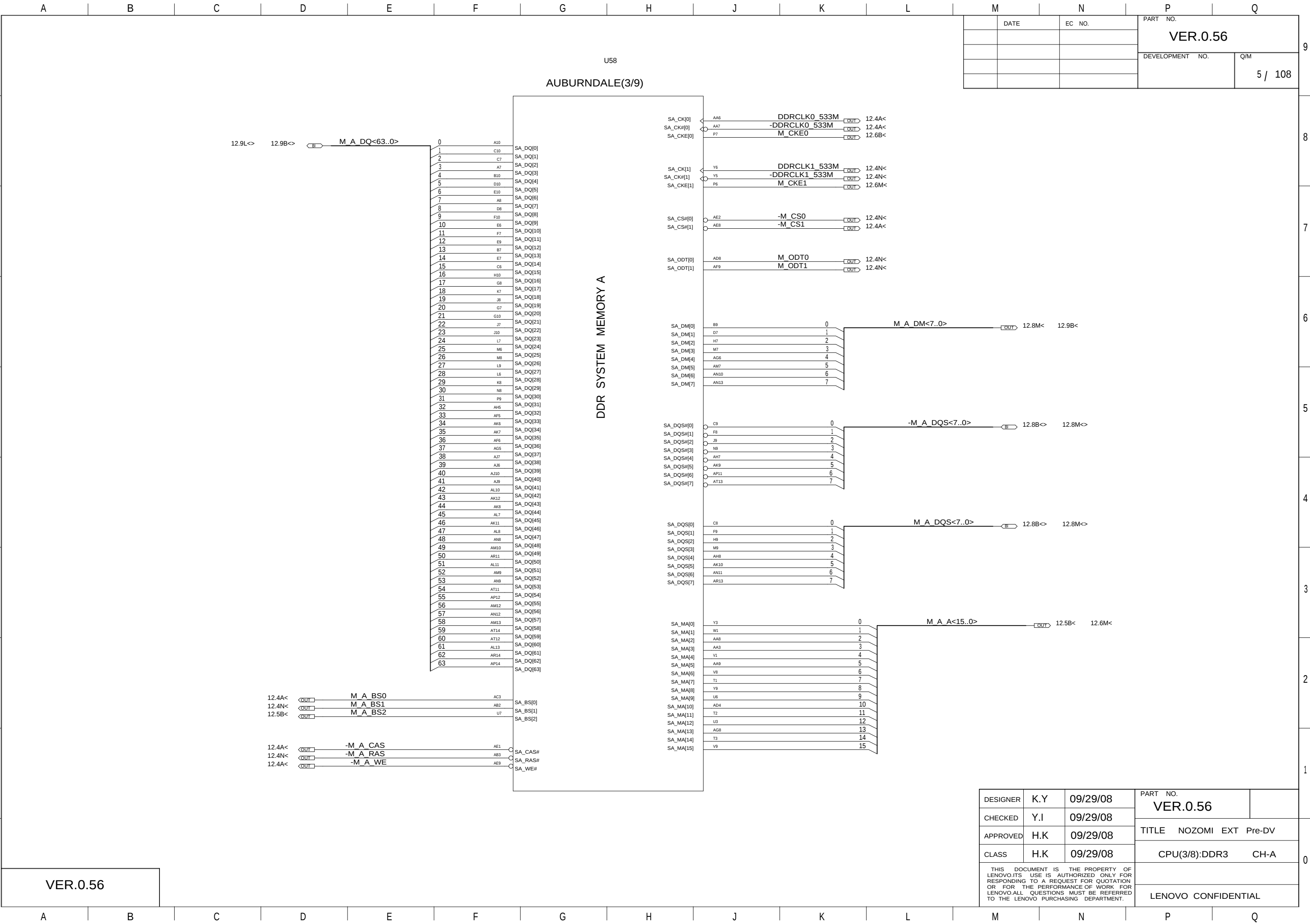


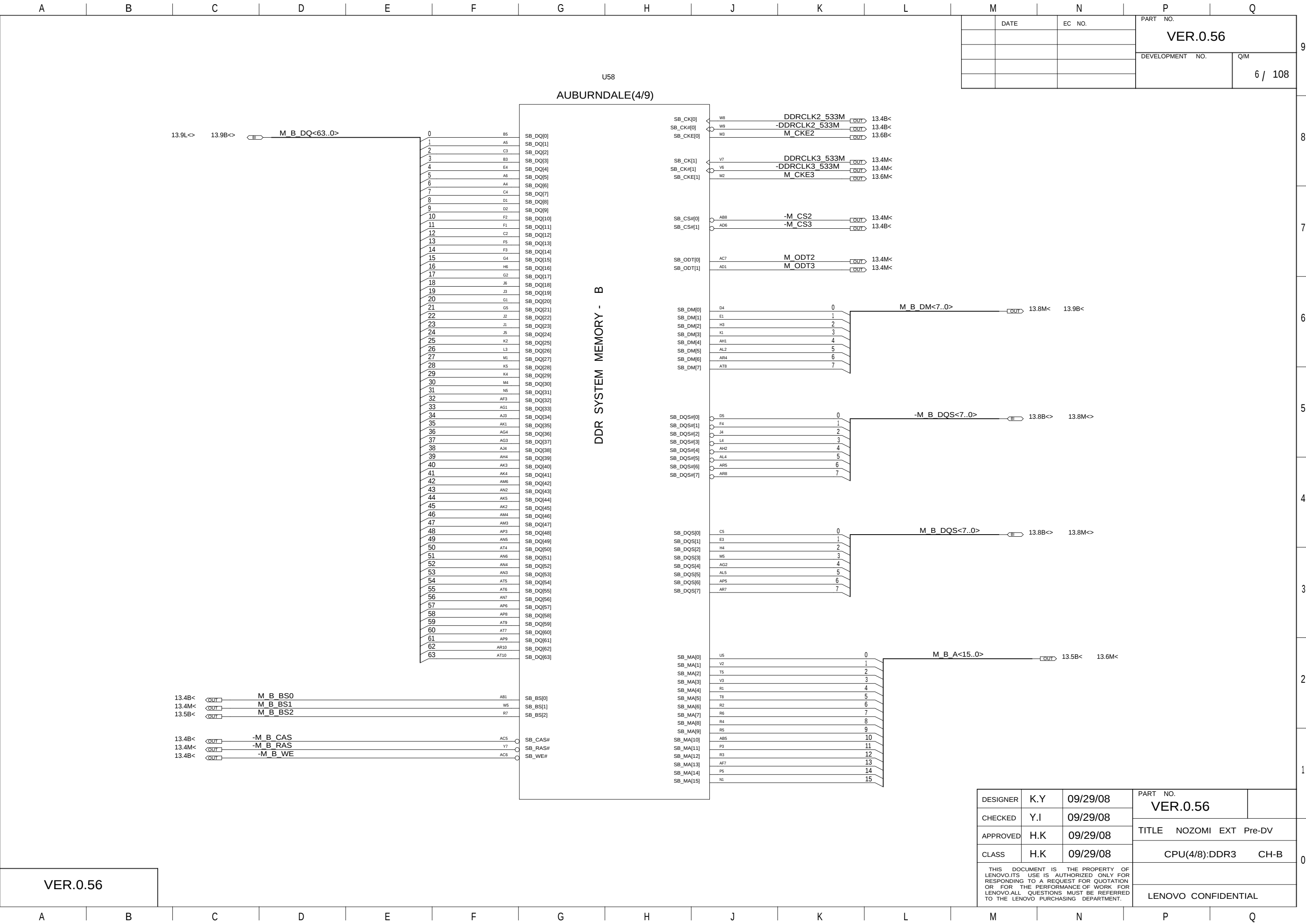


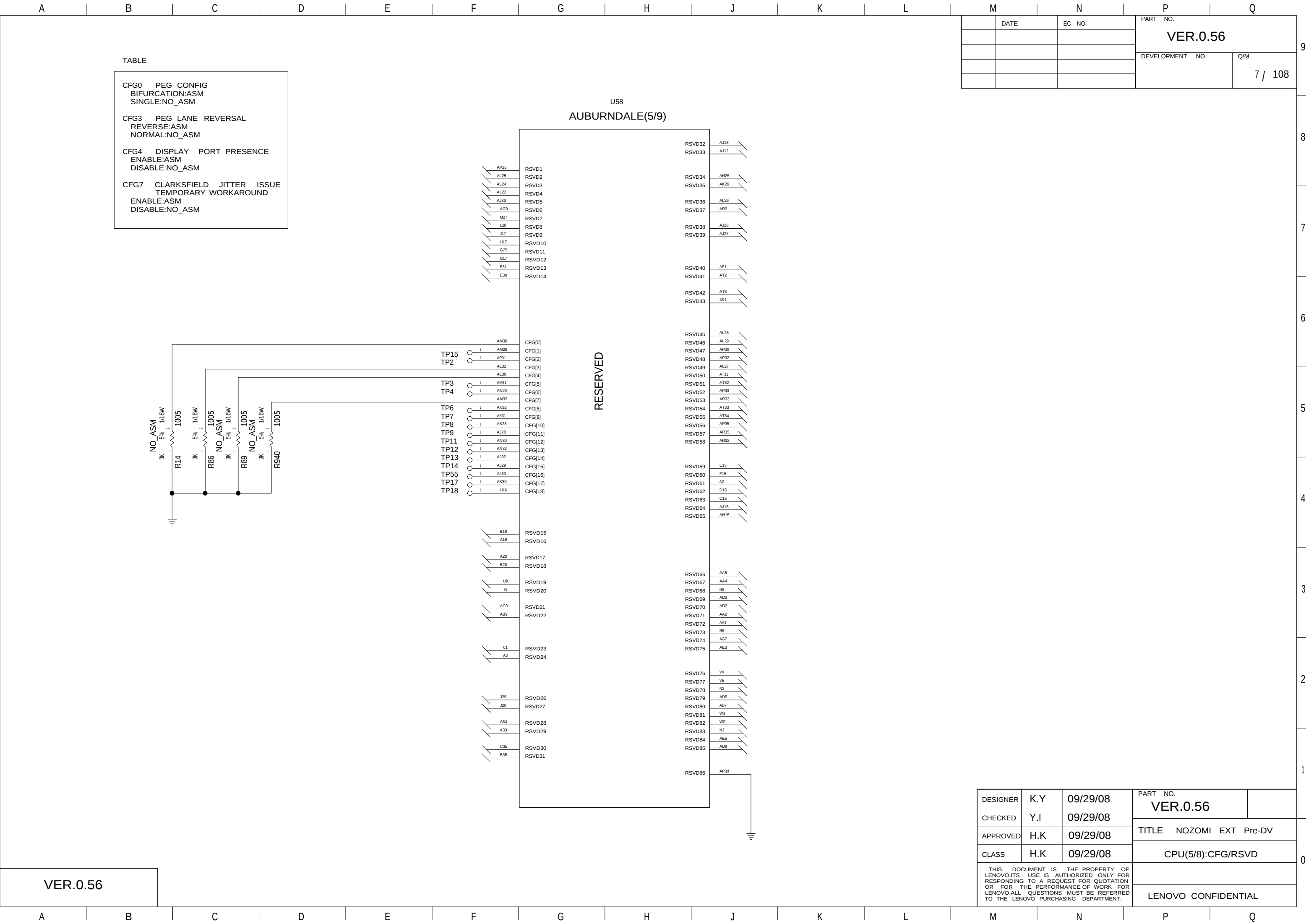
DATE		EC NO.		PART NO.	
				VER.0.56	
				DEVELOPMENT NO.	
				Q/M	
				4 / 108	

COMP0/1: Z0=49.9 OHM TRACE <0.5"
COMP2/3: Z0=20 OHM TRACE <0.5"

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	CPU(2/8):CLK/MISC/JTAG	
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DATE		EC NO.		PART NO.	
				VER.0.56	
				DEVELOPMENT NO.	
				Q/M	
				7 / 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	CPU(5/8):CFG/RSVD	
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			LENOVO CONFIDENTIAL	

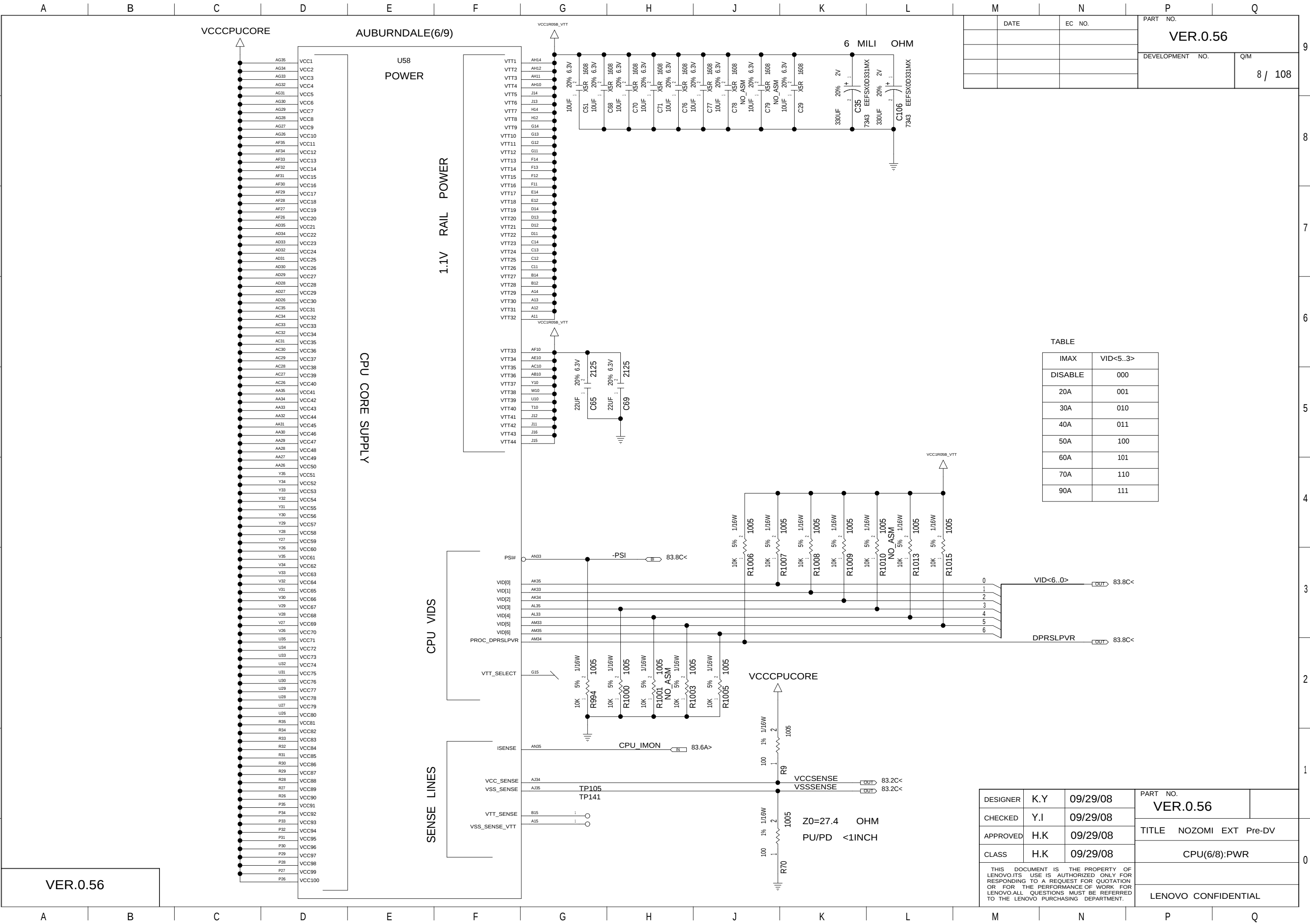
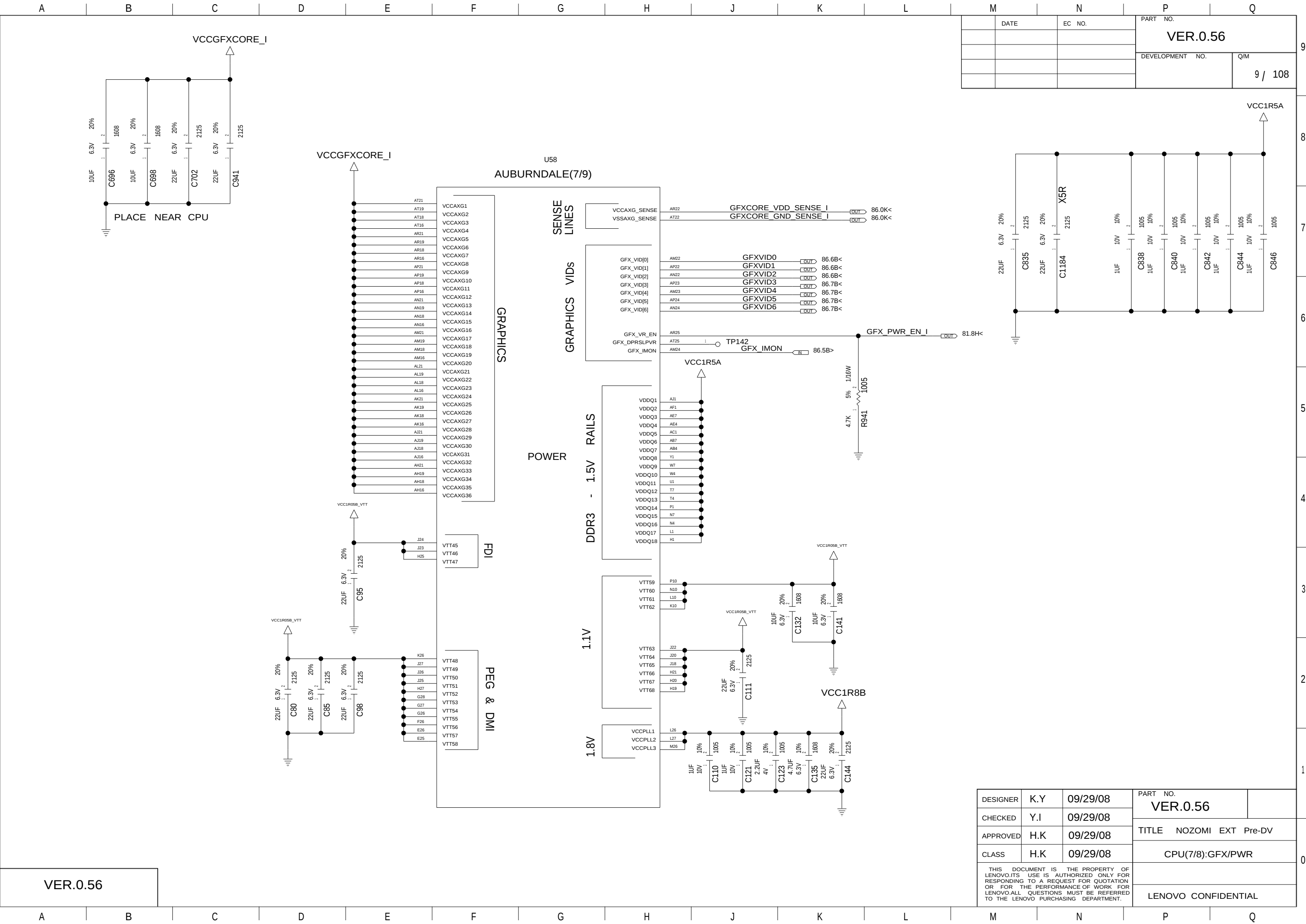


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DISABLE	000
20A	001
30A	010
40A	011
50A	100
60A	101
70A	110
90A	111

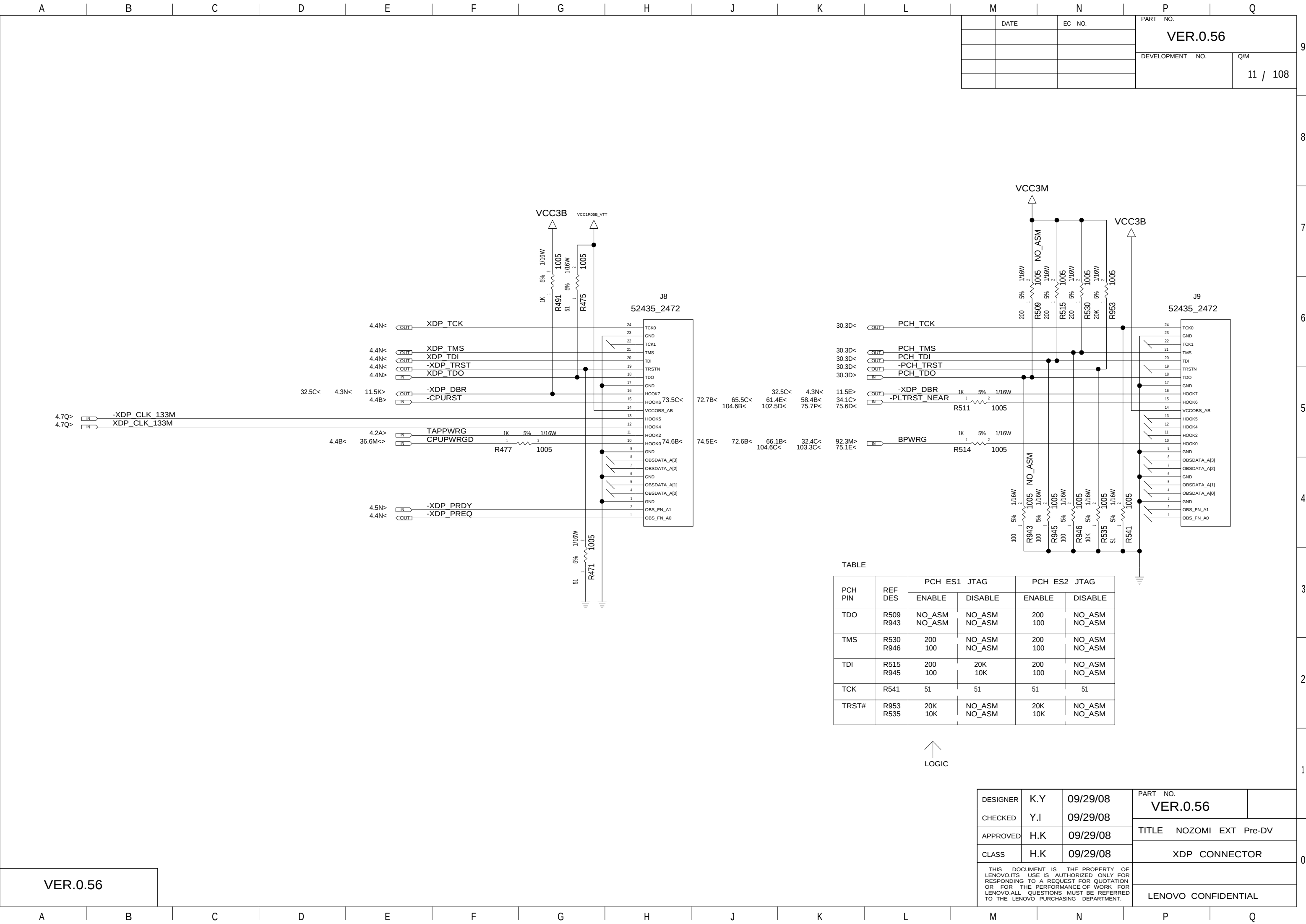
DESIGNER	K.Y	09/29/08	PART NO.	
CHECKED	Y.I	09/29/08	VER.0.56	
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	CPU(6/8):PWR	
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DATE		EC NO.		PART NO.	
				VER.0.56	
				DEVELOPMENT NO.	
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				9 / 108	

VER.0.56

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	CPU(7/8):GFX/PWR	
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			LENOVO CONFIDENTIAL	



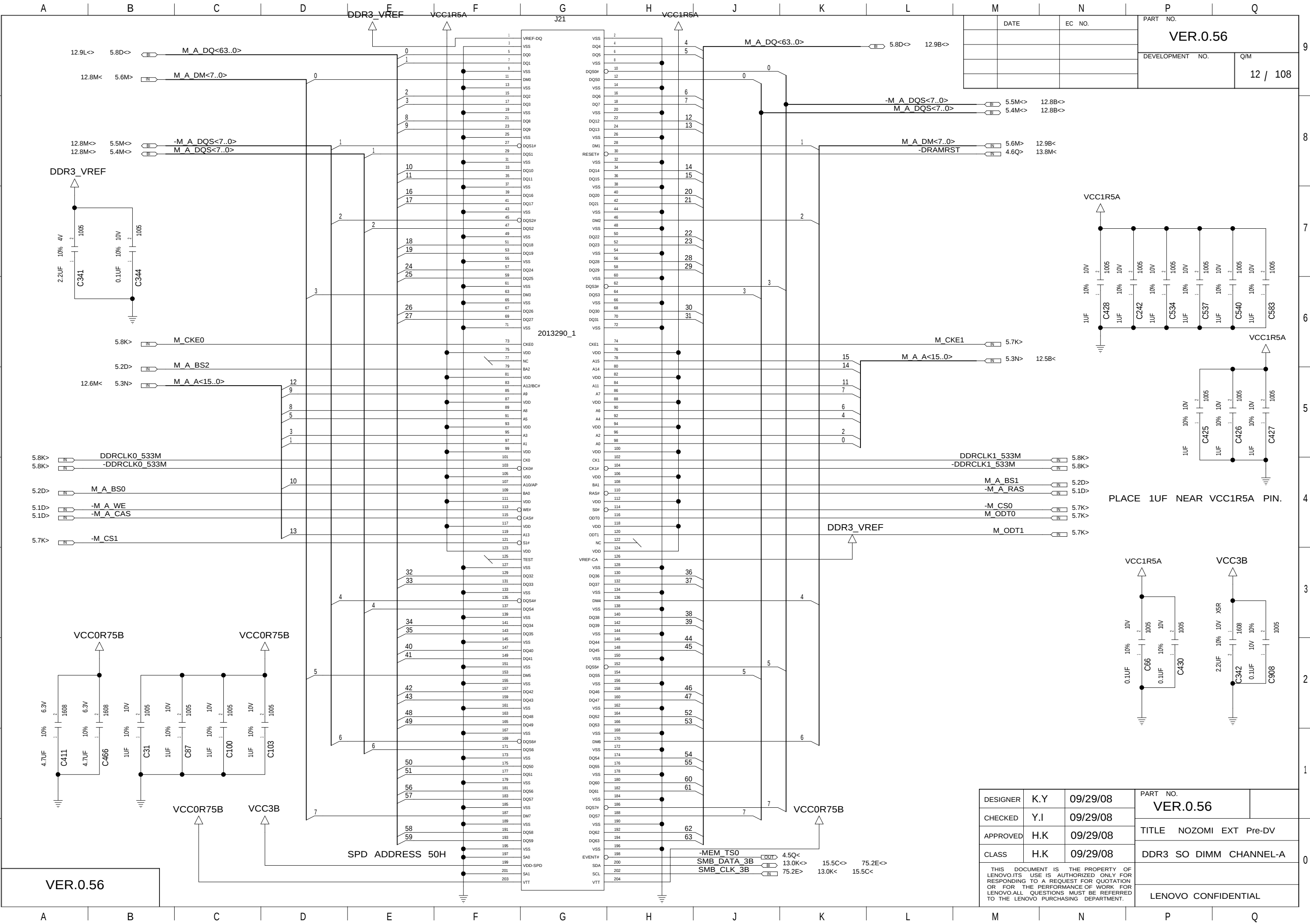
DATE		EC NO.	PART NO.	
			VER.0.56	
			DEVELOPMENT NO.	Q/M
				11 / 108

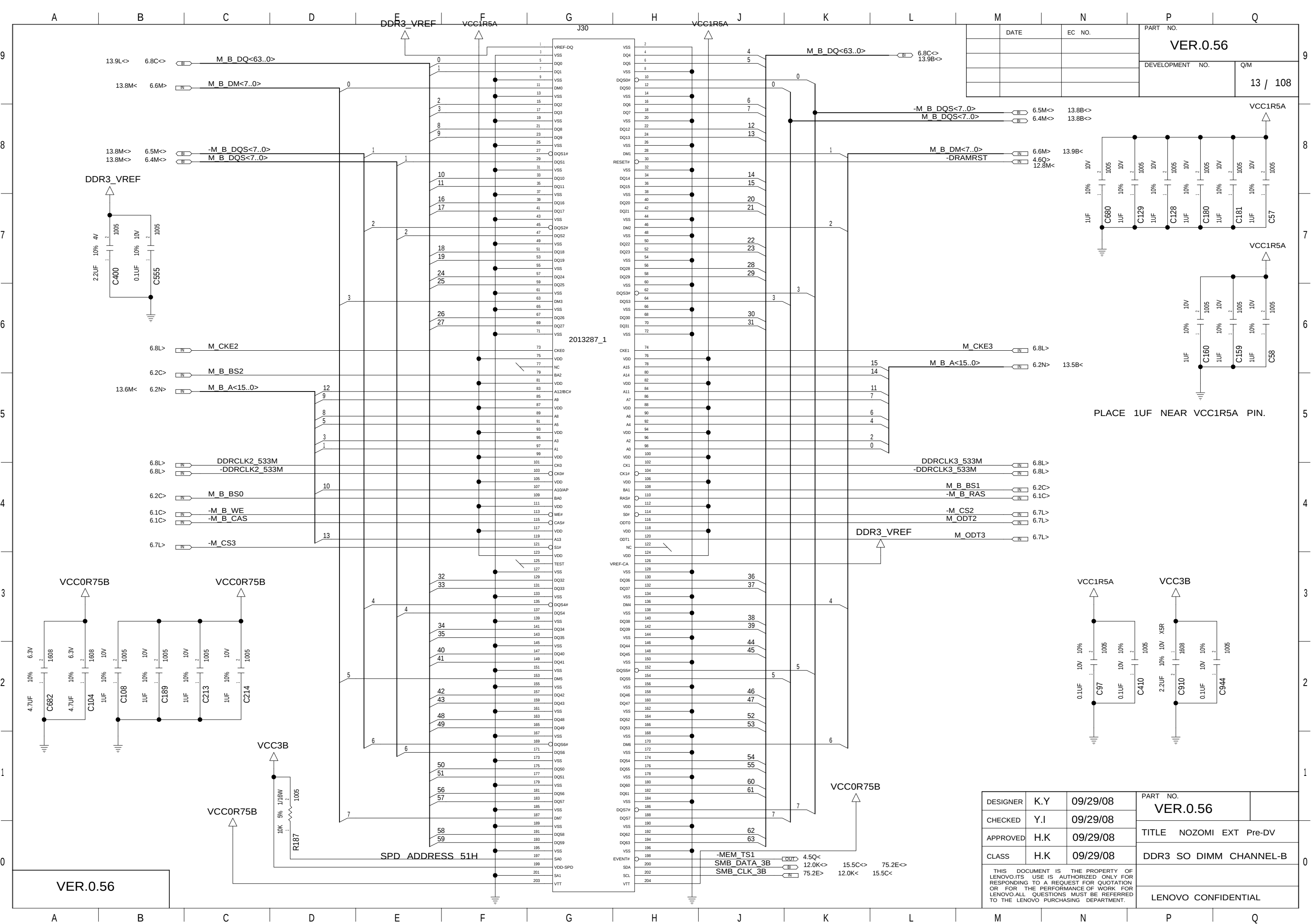
PCH PIN	REF DES	PCH ES1 JTAG		PCH ES2 JTAG	
		ENABLE	DISABLE	ENABLE	DISABLE
TDO	R509 R943	NO_ASM	NO_ASM	200	NO_ASM
		NO_ASM	NO_ASM	100	NO_ASM
TMS	R530 R946	200	NO_ASM	200	NO_ASM
		100	NO_ASM	100	NO_ASM
TDI	R515 R945	200	20K	200	NO_ASM
		100	10K	100	NO_ASM
TCK	R541	51	51	51	51
TRST#	R953 R535	20K	NO_ASM	20K	NO_ASM
		10K	NO_ASM	10K	NO_ASM

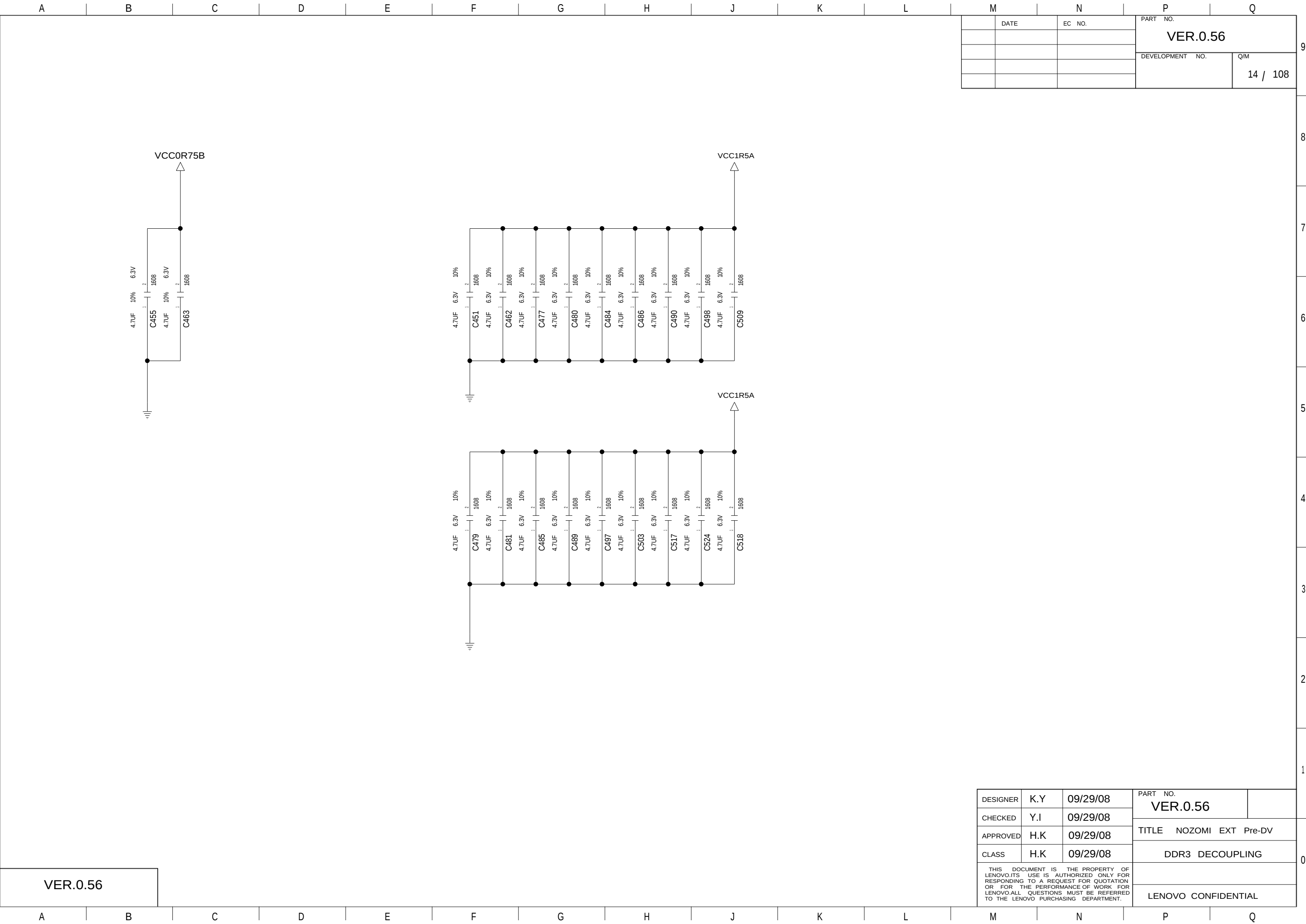
↑
LOGIC

VER.0.56

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	XDP CONNECTOR	
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			LENOVO CONFIDENTIAL	







M		N		P		Q	
		DATE		EC NO.		PART NO.	
						VER.0.56	
						DEVELOPMENT NO.	
						Q/M	
						14 / 108	

VER.0.56

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	DDR3 DECOUPLING		
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.					
			LENOVO CONFIDENTIAL		

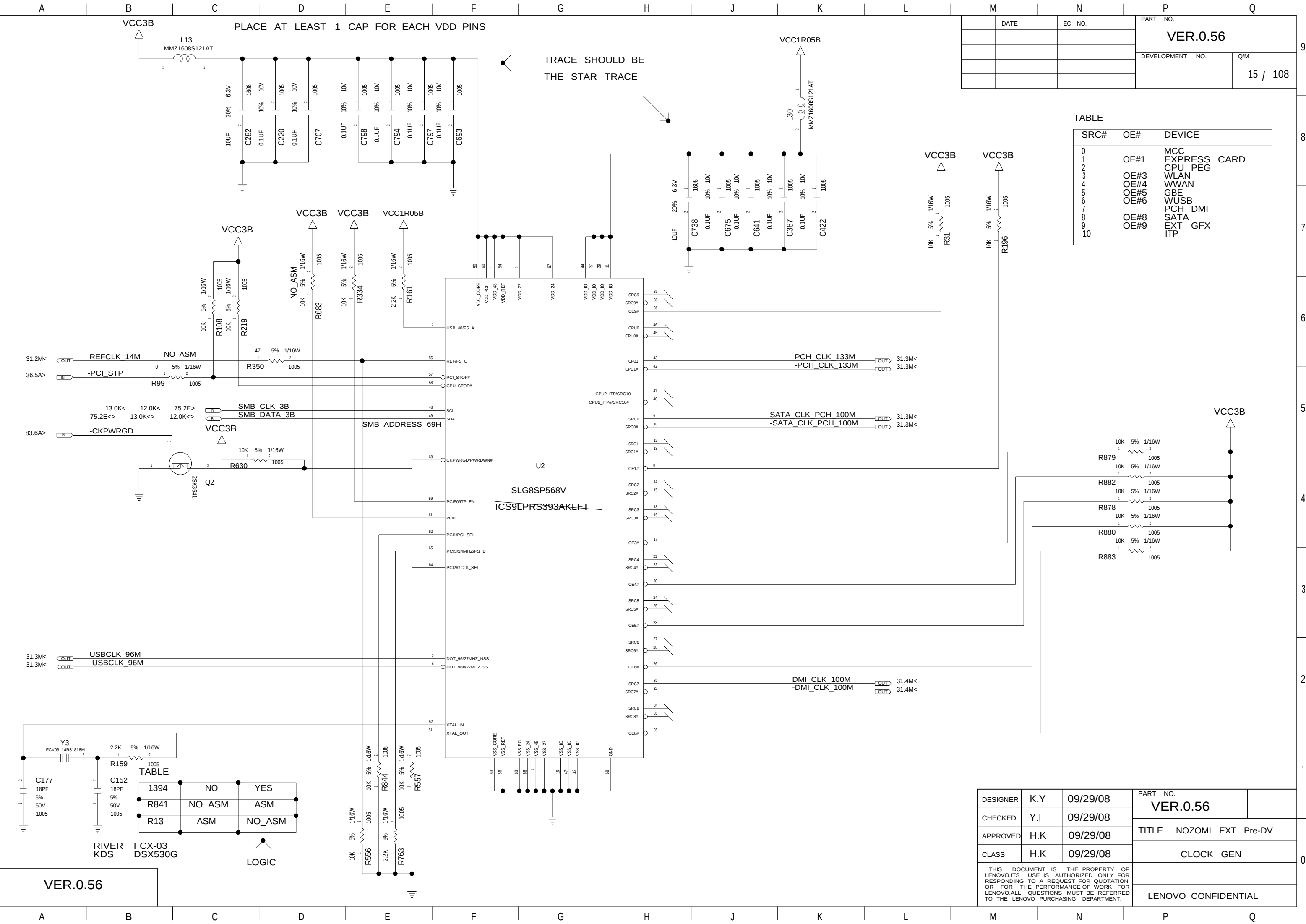
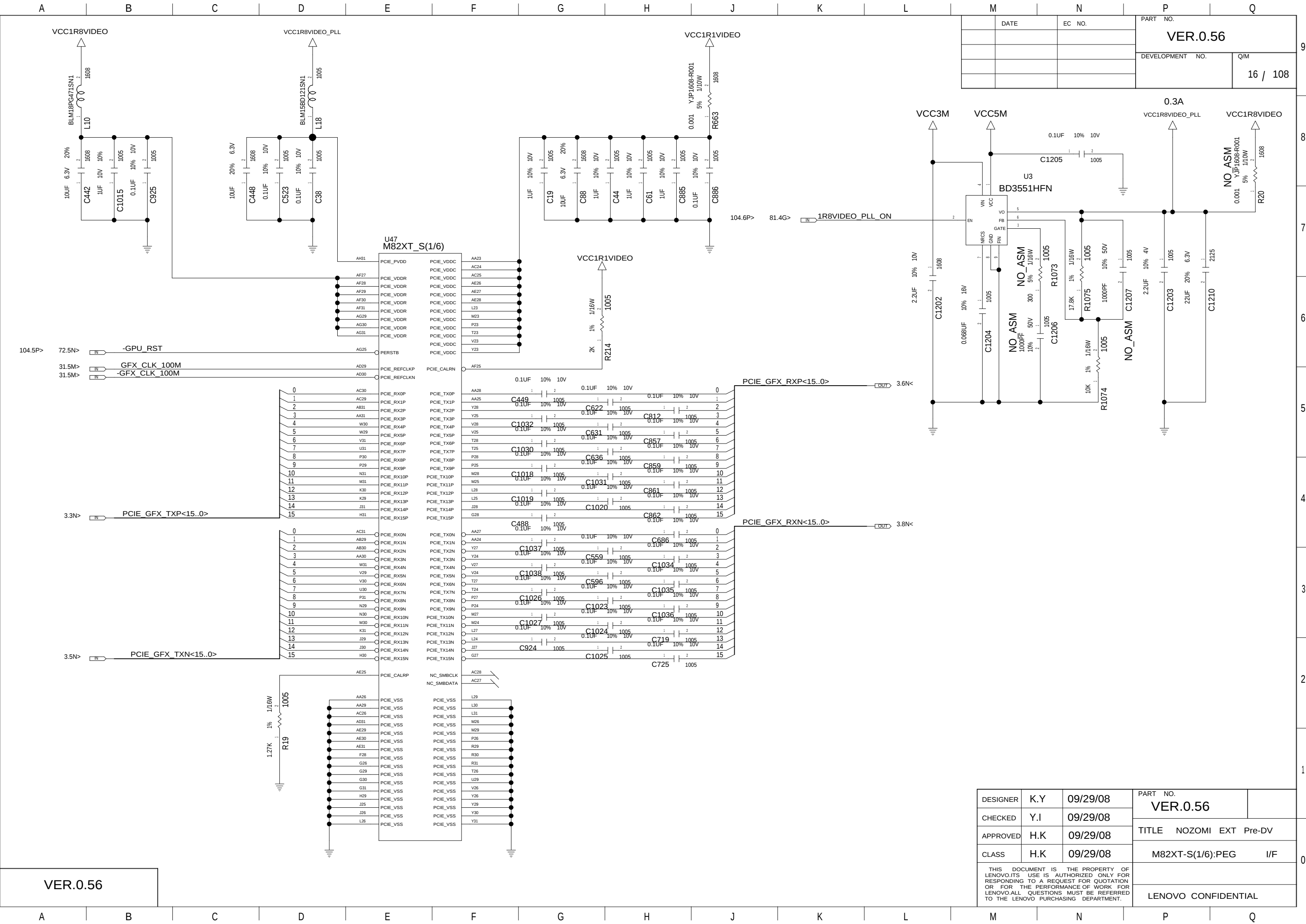
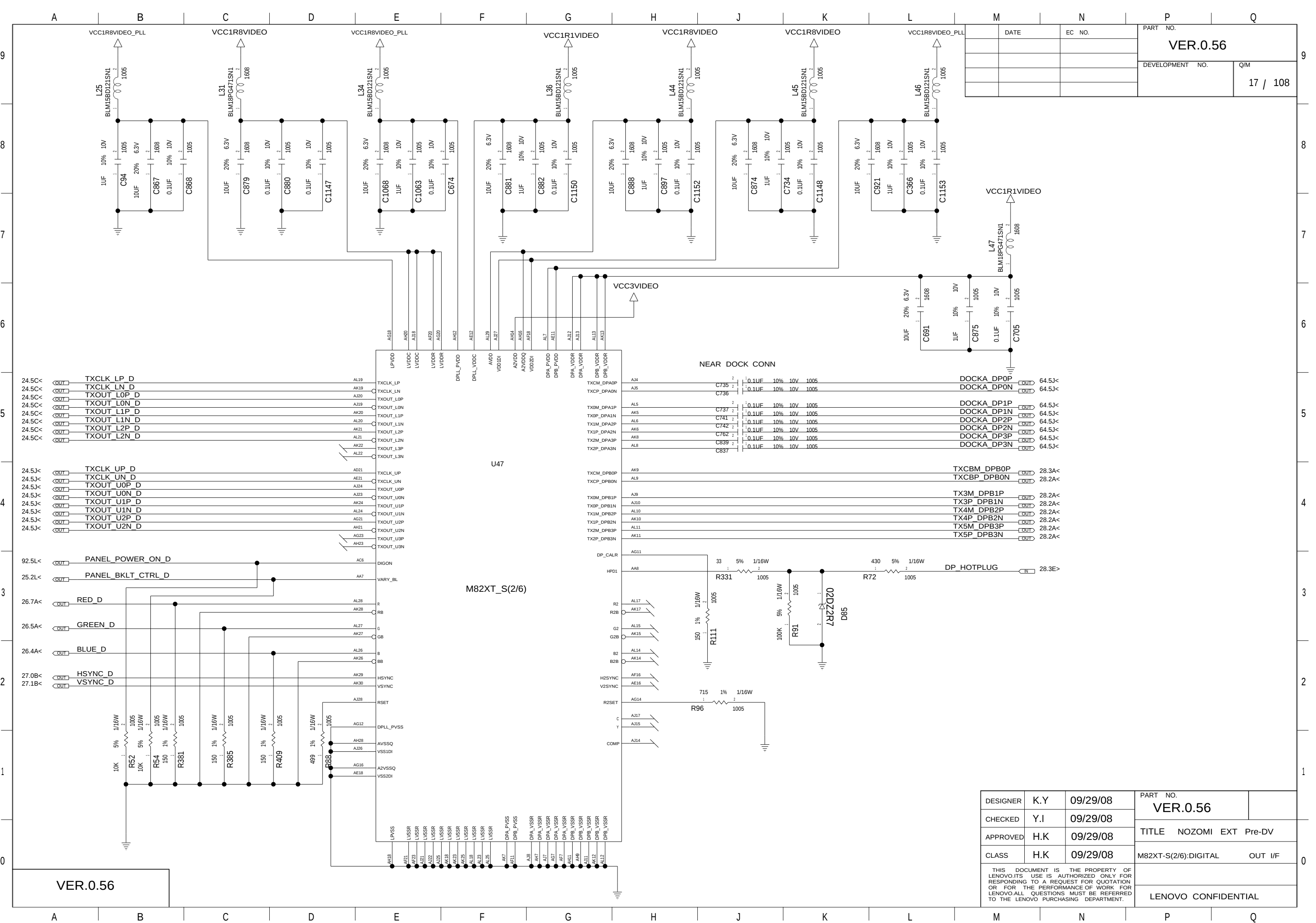


TABLE		
SRC#	OE#	DEVICE
0		MCC
1	OE#1	EXPRESS CARD
2		CPU_PEG
3		WLAN
4	OE#3	WWAN
5	OE#4	GBE
6	OE#5	WUSB
7	OE#6	PCH_DMI
8	OE#8	SATA
9	OE#9	EXT GFX
10		ITP

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	CLOCK GEN	
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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	M82XT-S(1/6):PEG I/F	
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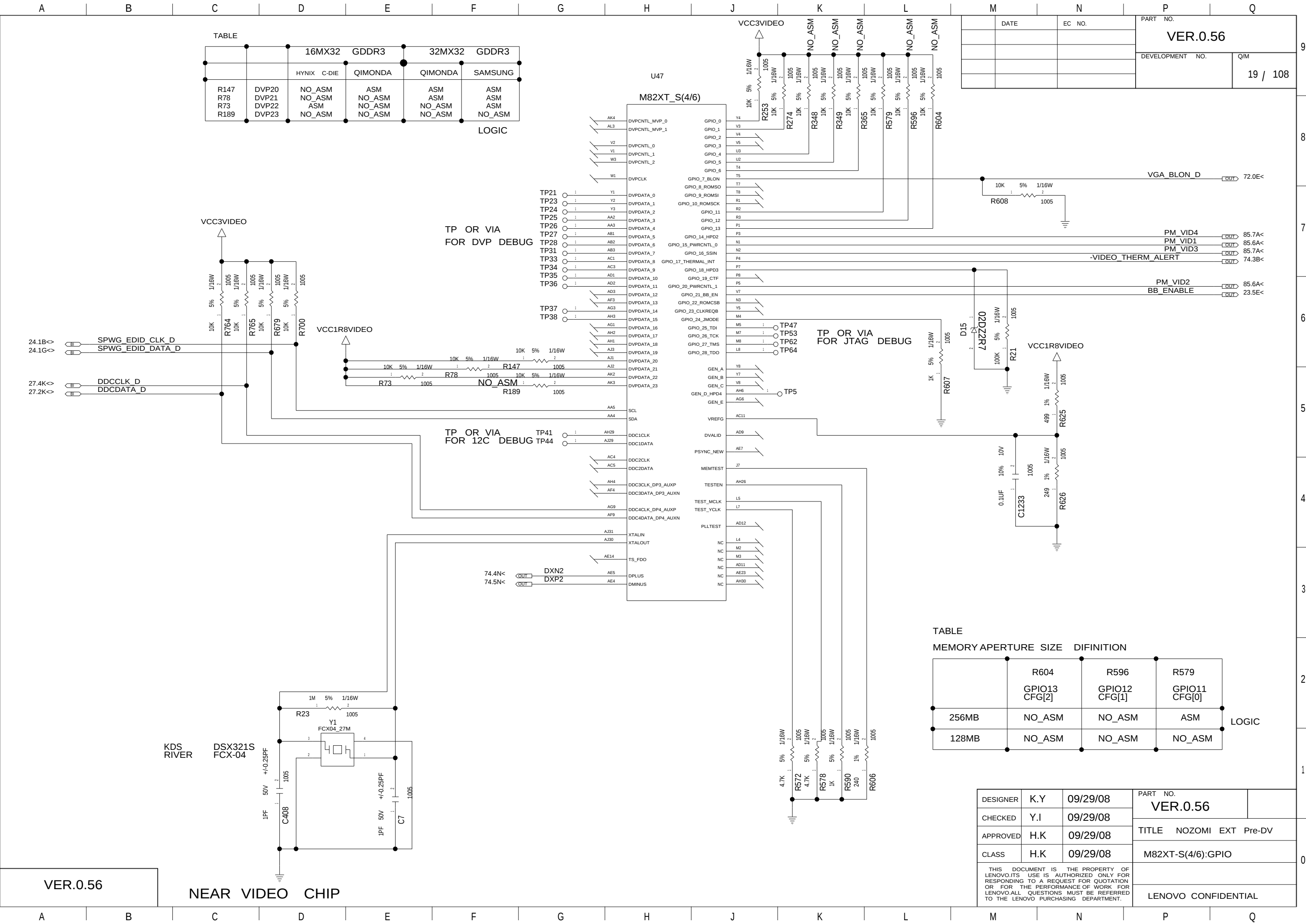


TABLE					
		16MX32	GDDR3	32MX32	GDDR3
		HYNIX C-DIE	QIMONDA	QIMONDA	SAMSUNG
R147	DVP20	NO_ASM	ASM	ASM	ASM
R78	DVP21	NO_ASM	NO_ASM	ASM	ASM
R73	DVP22	ASM	NO_ASM	NO_ASM	ASM
R189	DVP23	NO_ASM	NO_ASM	NO_ASM	NO_ASM

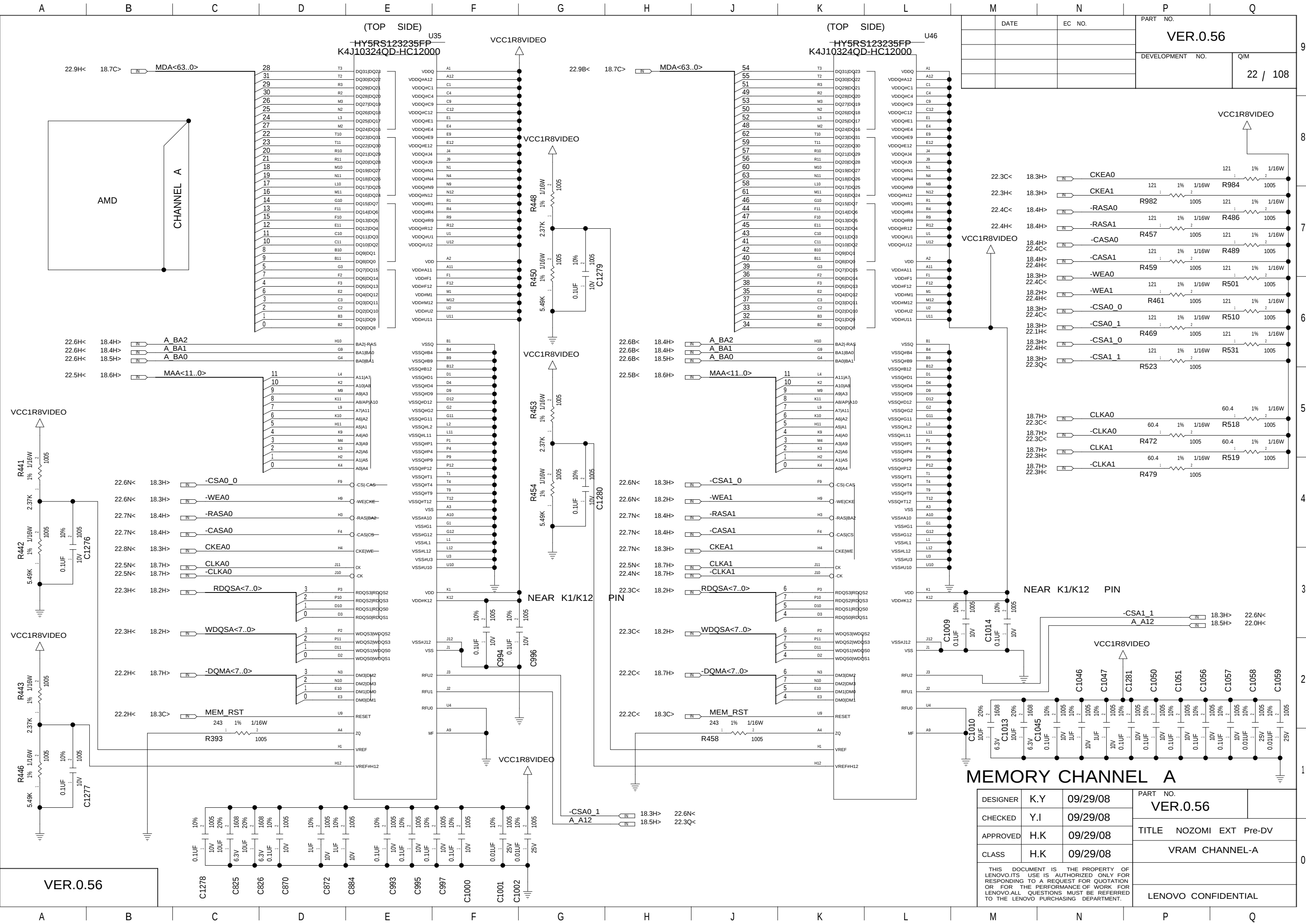
LOGIC

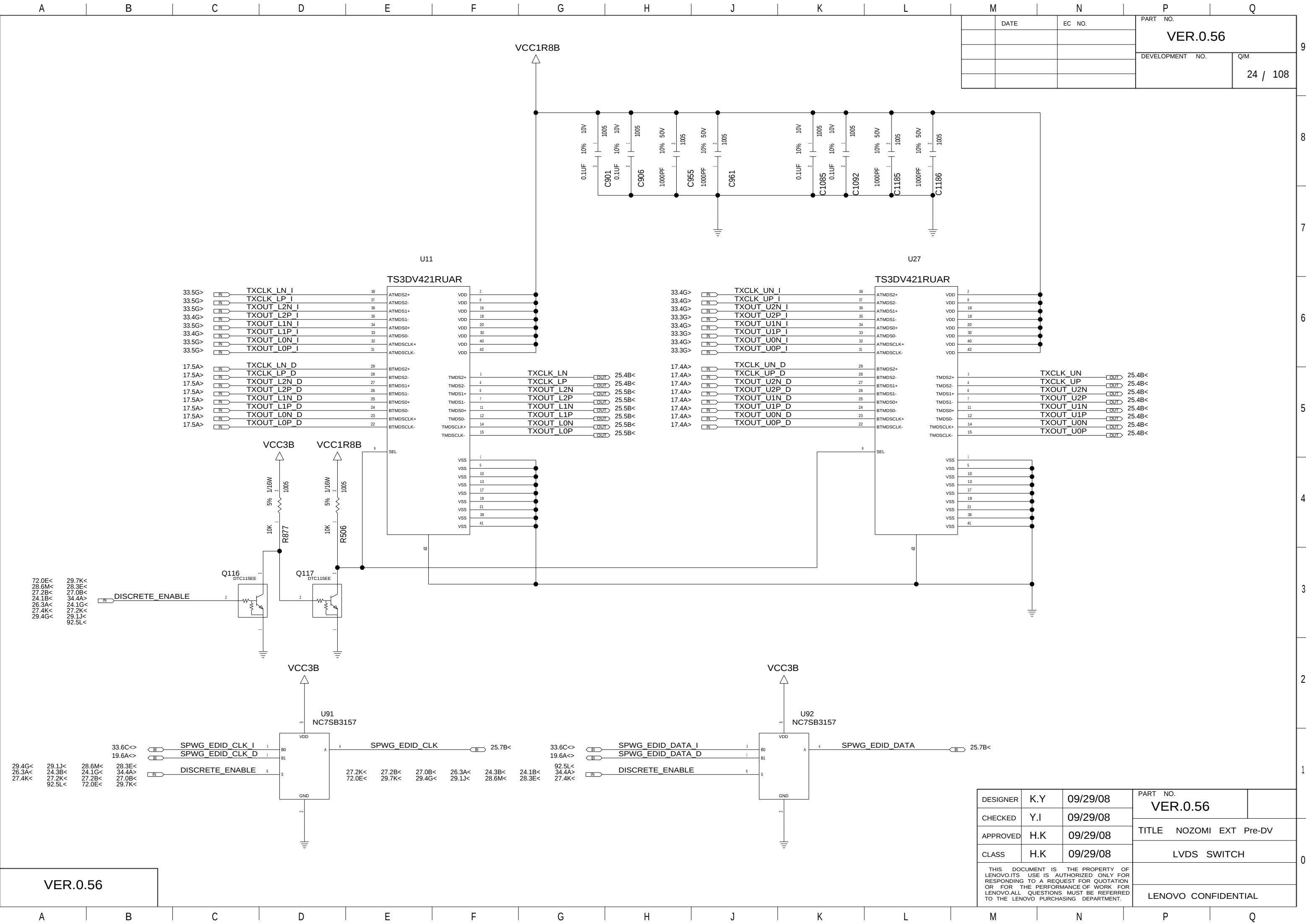
DATE		EC NO.	PART NO.	
			VER.0.56	
			DEVELOPMENT NO.	Q/M
				19 / 108

TABLE			
MEMORY APERTURE SIZE		DIFINITION	
	R604	R596	R579
	GPIO13 CFG[2]	GPIO12 CFG[1]	GPIO11 CFG[0]
256MB	NO_ASM	NO_ASM	ASM
128MB	NO_ASM	NO_ASM	NO_ASM

LOGIC

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	M82XT-S(4/6):GPIO	
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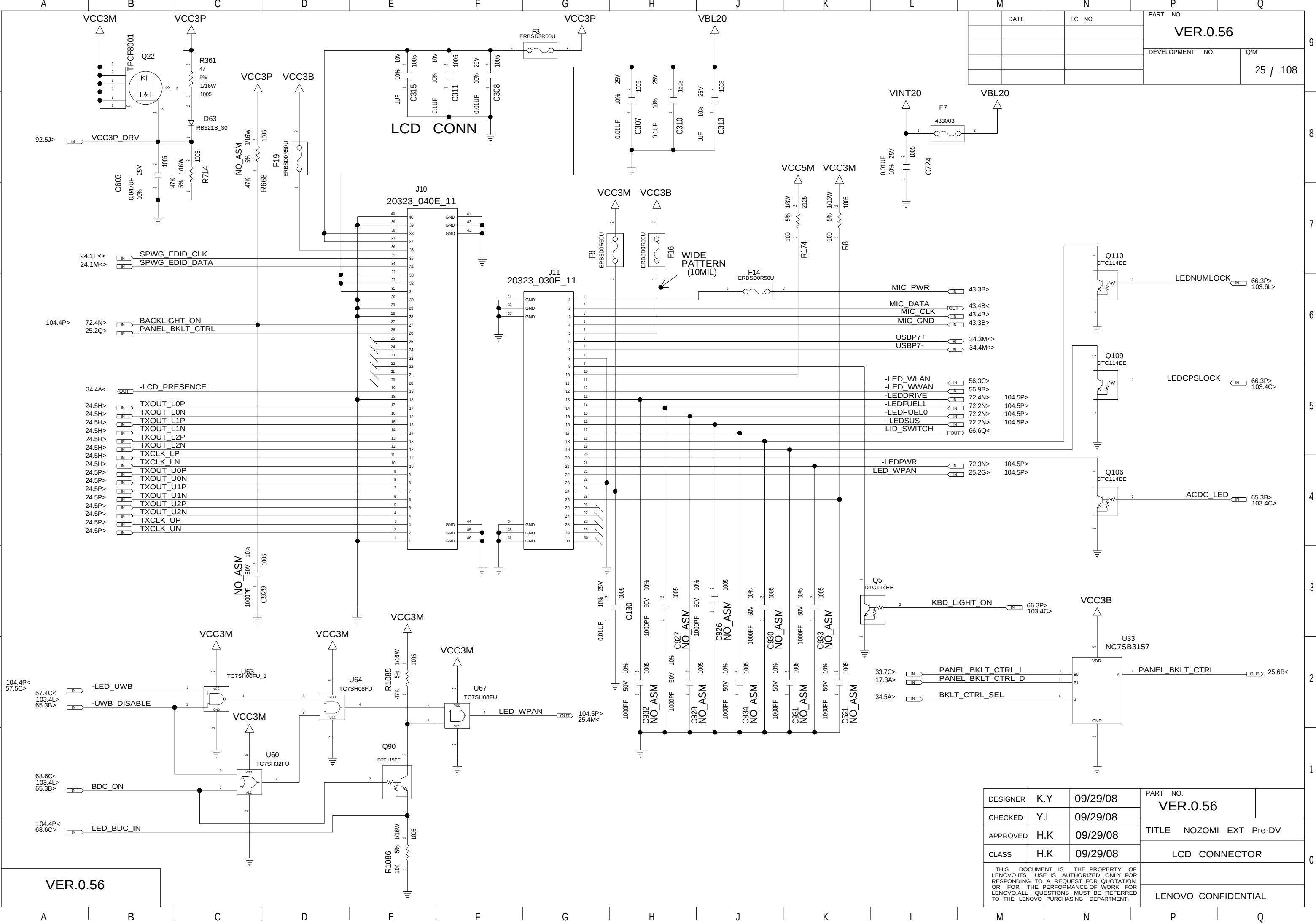




		PART NO.	
		VER.0.56	
		DEVELOPMENT NO.	
		Q/M	
		24 / 108	

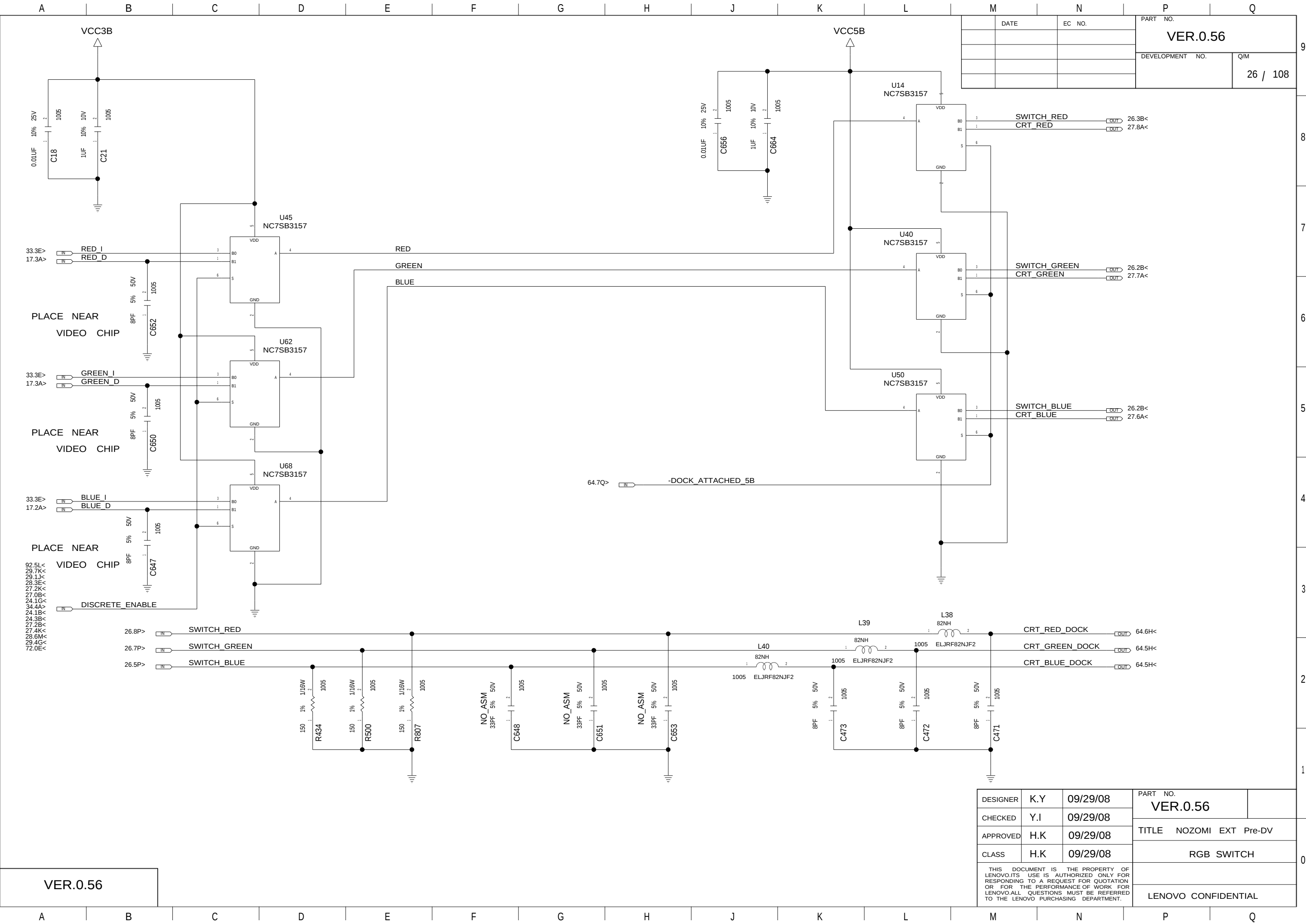
VER.0.56

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	LVDS SWITCH	
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DATE		EC NO.	PART NO.	
			VER.0.56	
			DEVELOPMENT NO.	Q/M
				25 / 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	LCD CONNECTOR	
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DATE		EC NO.	PART NO.	
			VER.0.56	
			DEVELOPMENT NO.	
			Q/M	
			26 / 108	

SWITCH_RED
CRT_RED

OUT
OUT

26.3B<
27.8A<

SWITCH_GREEN
CRT_GREEN

OUT
OUT

26.2B<
27.7A<

SWITCH_BLUE
CRT_BLUE

OUT
OUT

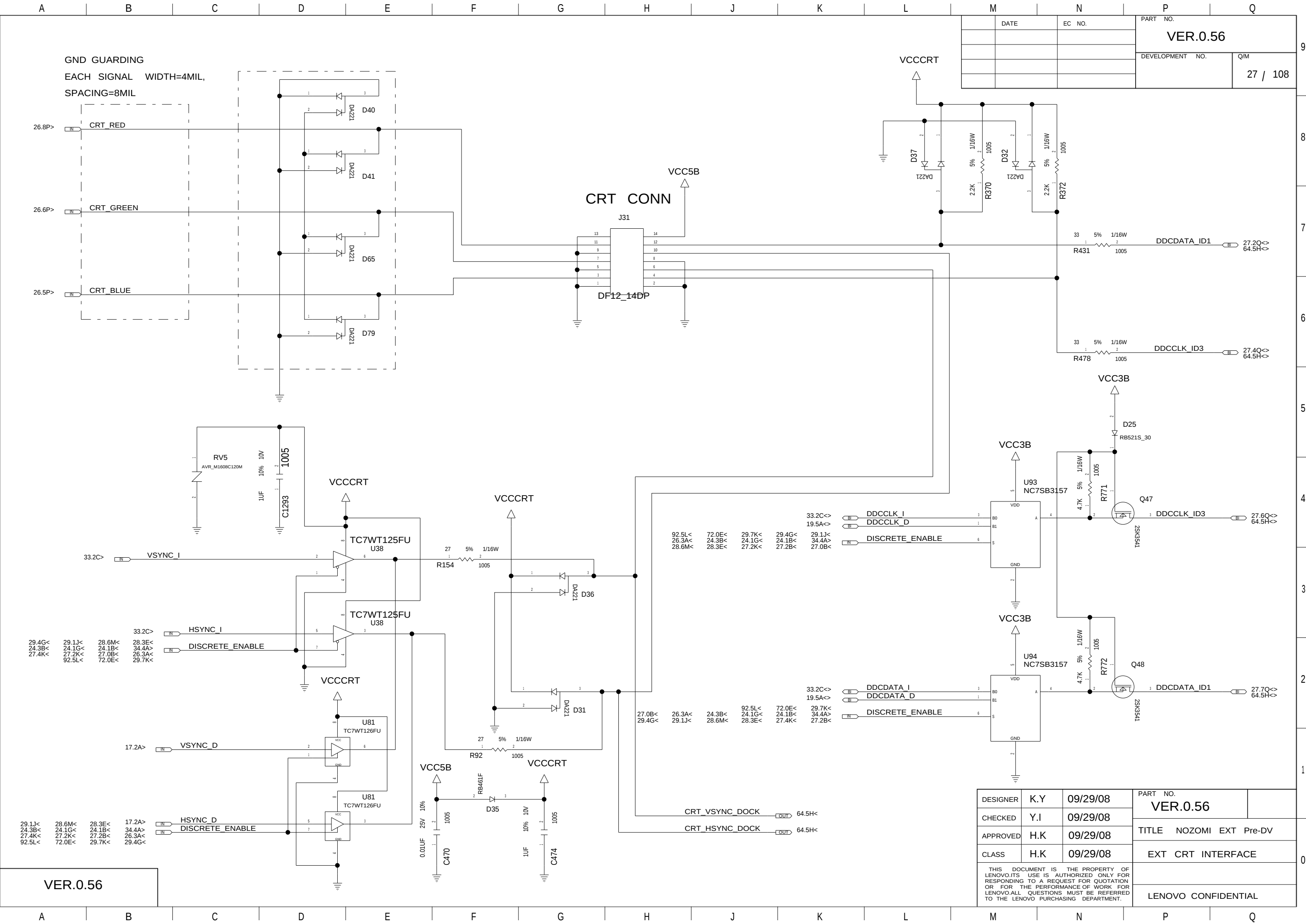
26.2B<
27.6A<

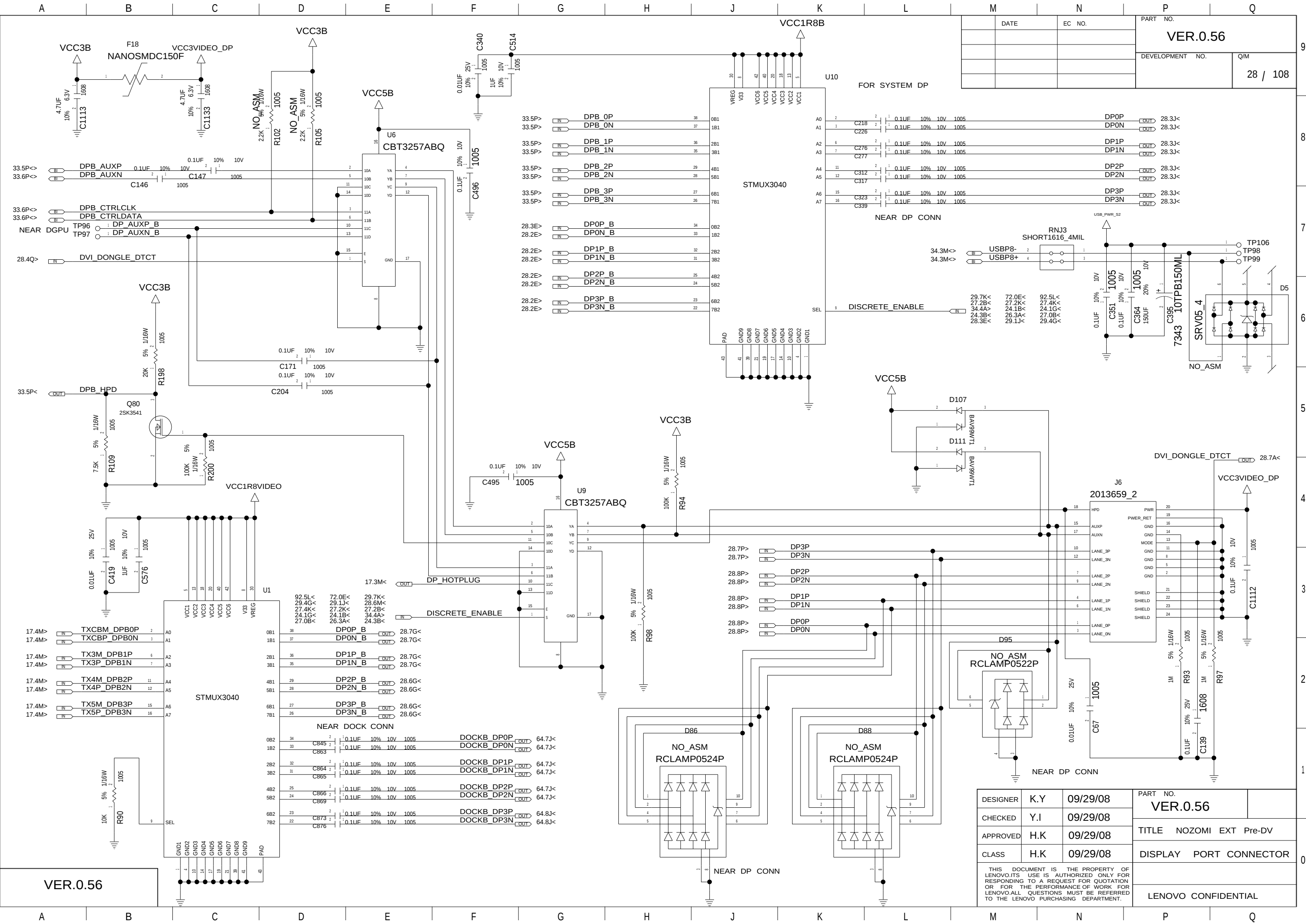
CRT_RED_DOCK
CRT_GREEN_DOCK
CRT_BLUE_DOCK

OUT
OUT
OUT

64.6H<
64.5H<
64.5H<

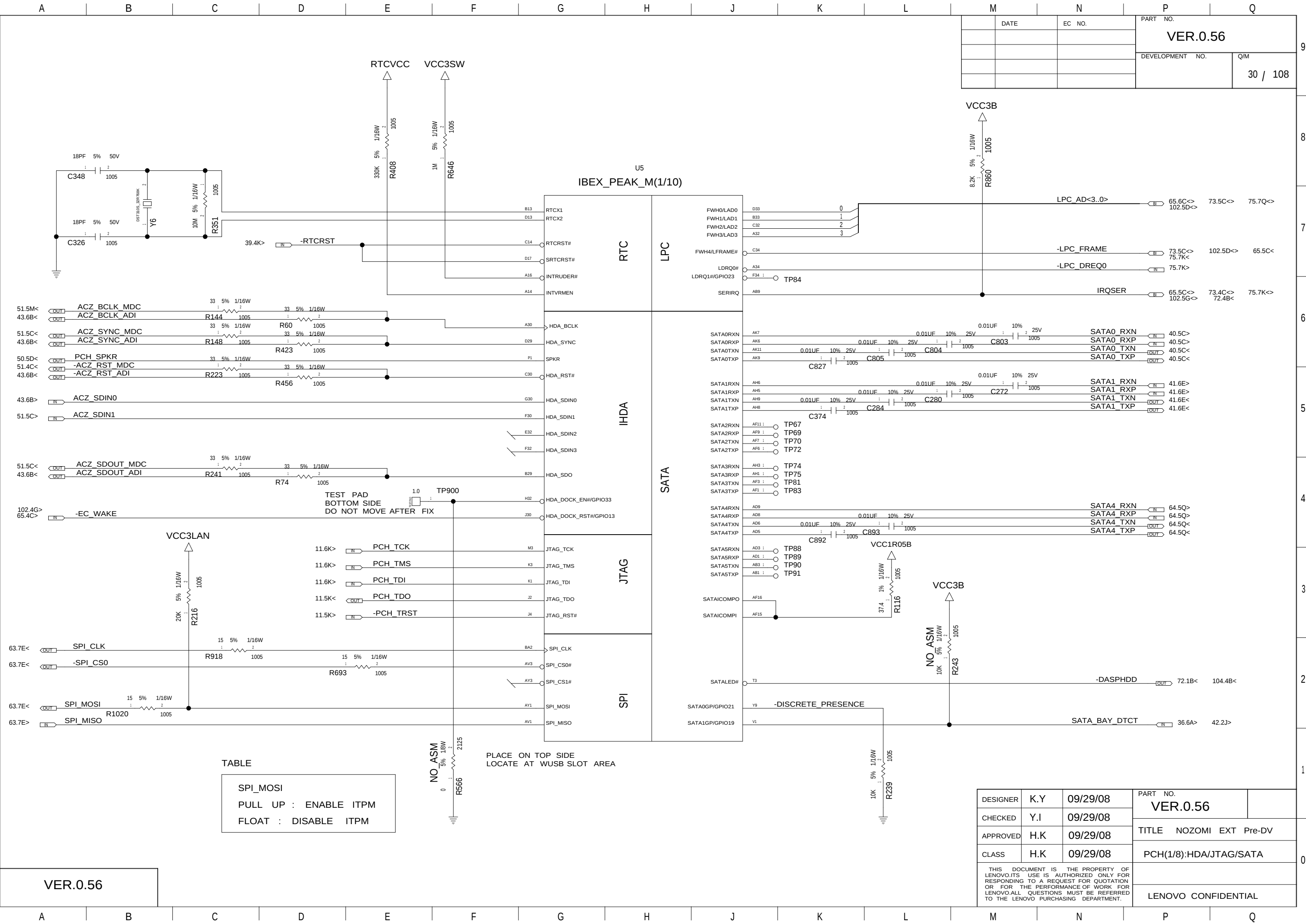
DESIGNER	K.Y	09/29/08	PART NO.	
CHECKED	Y.I	09/29/08	VER.0.56	
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	RGB SWITCH	
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DATE		EC NO.	PART NO.	
			VER.0.56	
			DEVELOPMENT NO.	Q/M
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DESIGNER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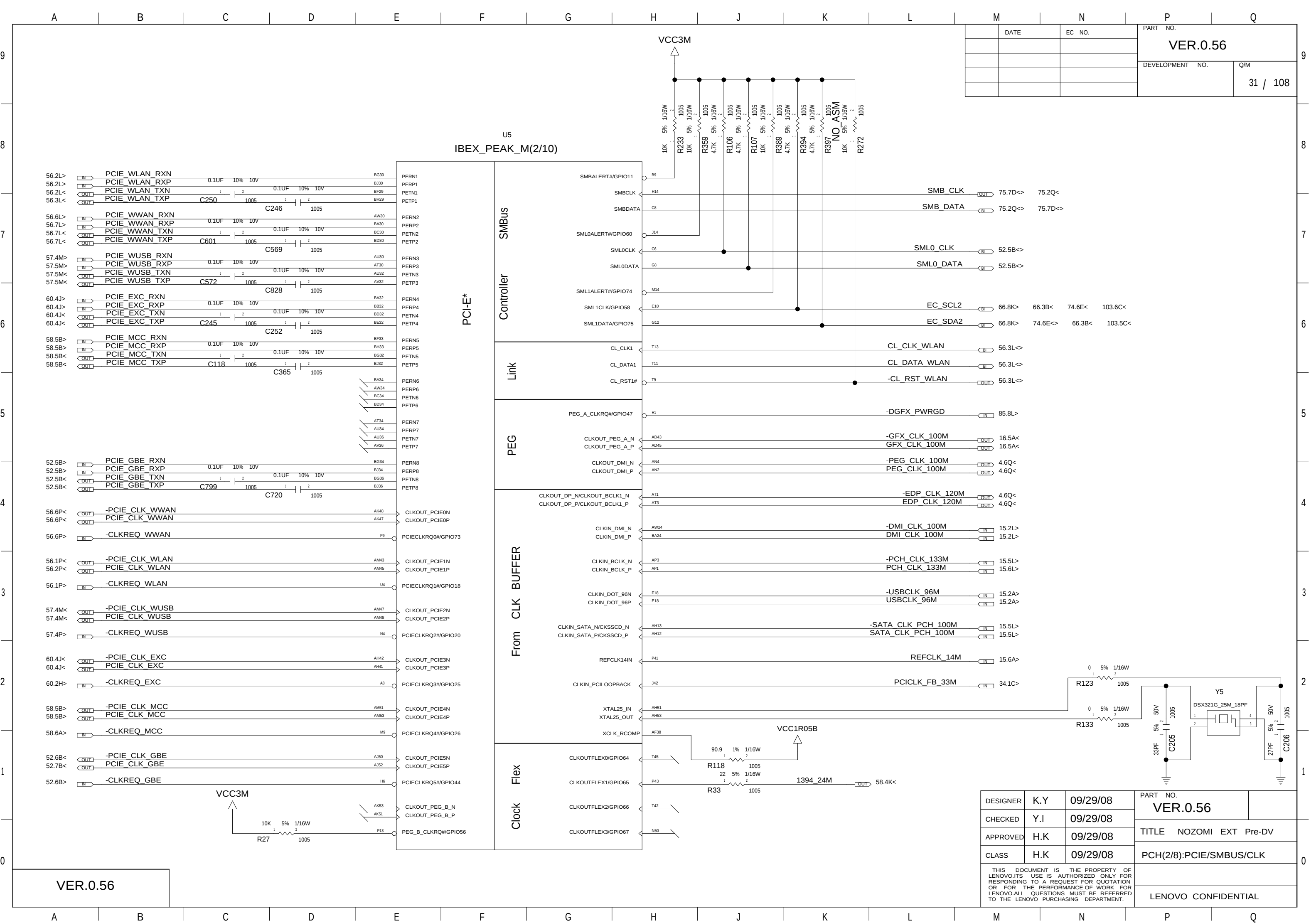


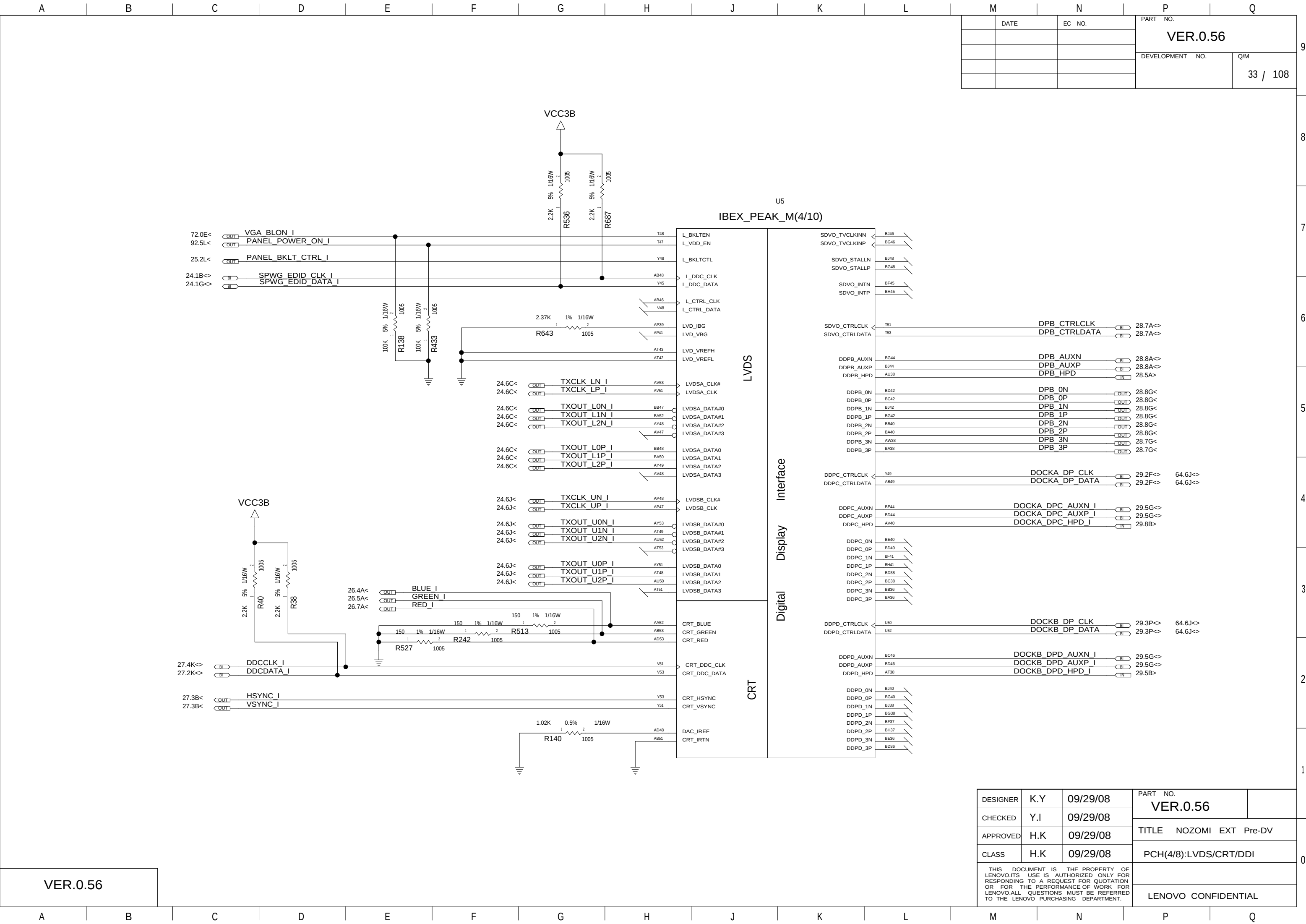
DATE		EC NO.		PART NO.	
				VER.0.56	
				DEVELOPMENT NO.	
				Q/M	
				30 / 108	

VER.0.56

TABLE	
SPI_MOSI	
PULL UP : ENABLE ITPM	
FLOAT : DISABLE ITPM	

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	PCH(1/8):HDA/JTAG/SATA	
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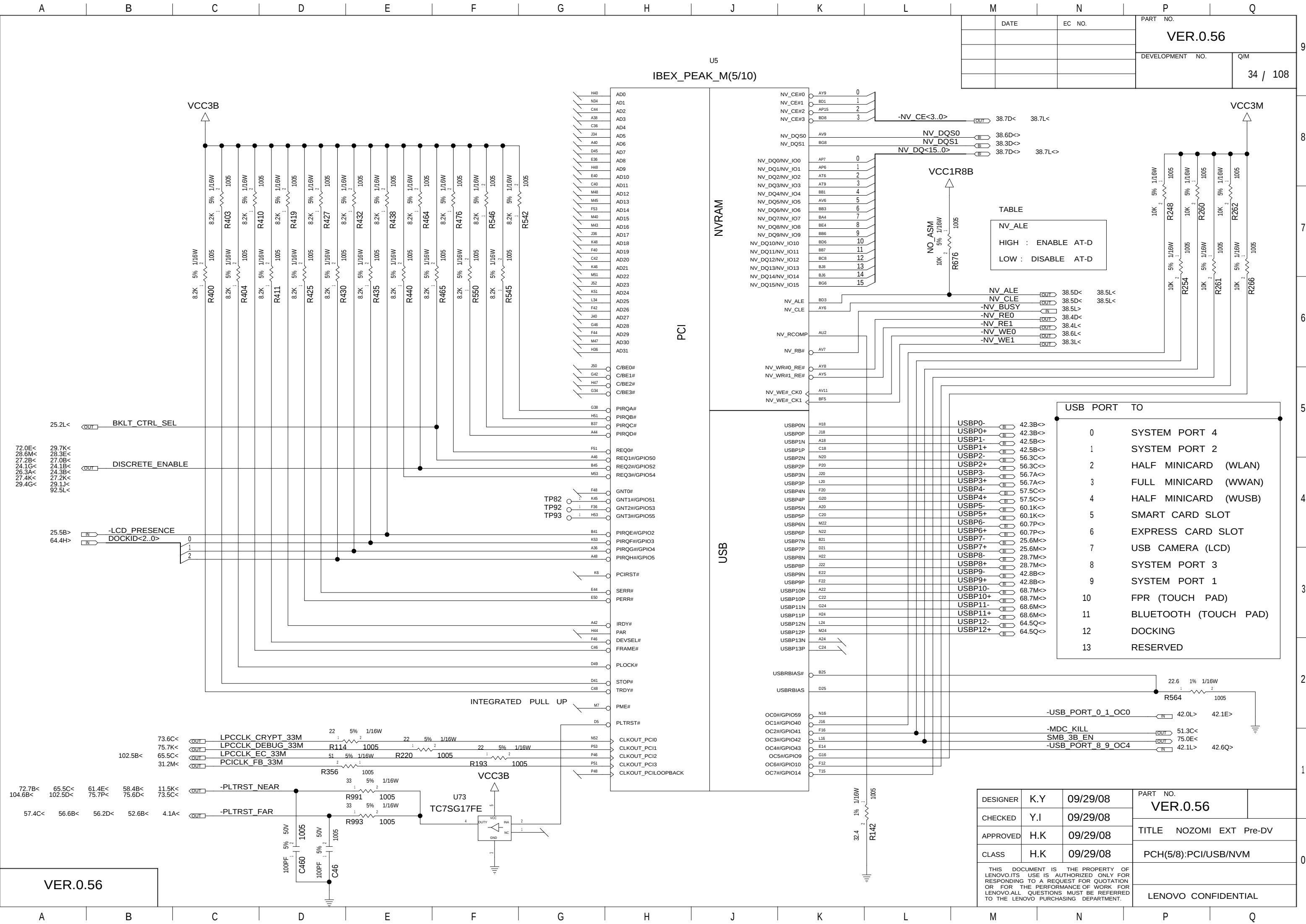




DATE		EC NO.	PART NO.	
			VER.0.56	
			DEVELOPMENT NO.	
			Q/M	
			33 / 108	

VER.0.56

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	PCH(4/8):LVDS/CRT/DDI	
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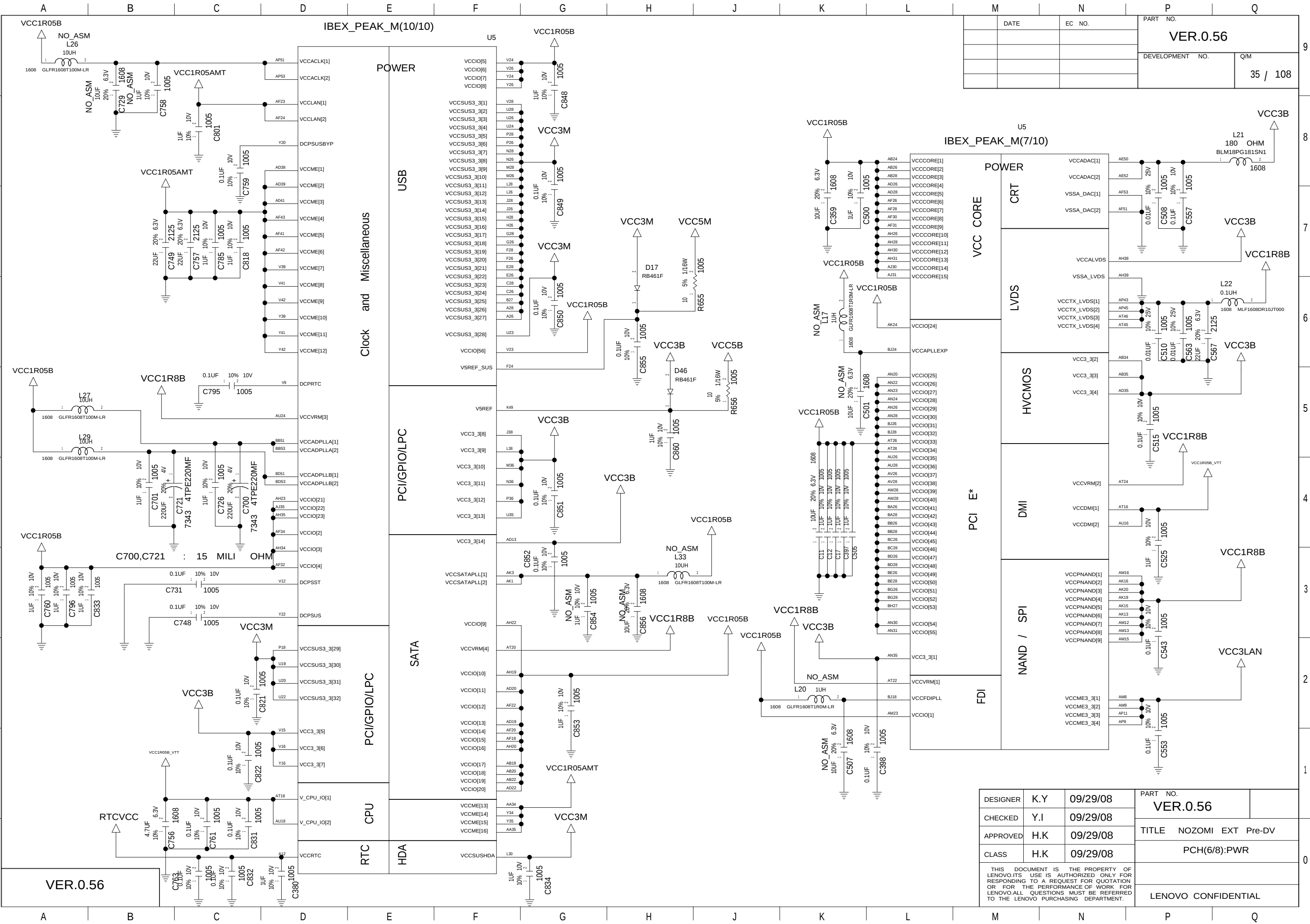


DATE		EC NO.	PART NO.	
			VER.0.56	
			DEVELOPMENT NO.	Q/M
				34 / 108

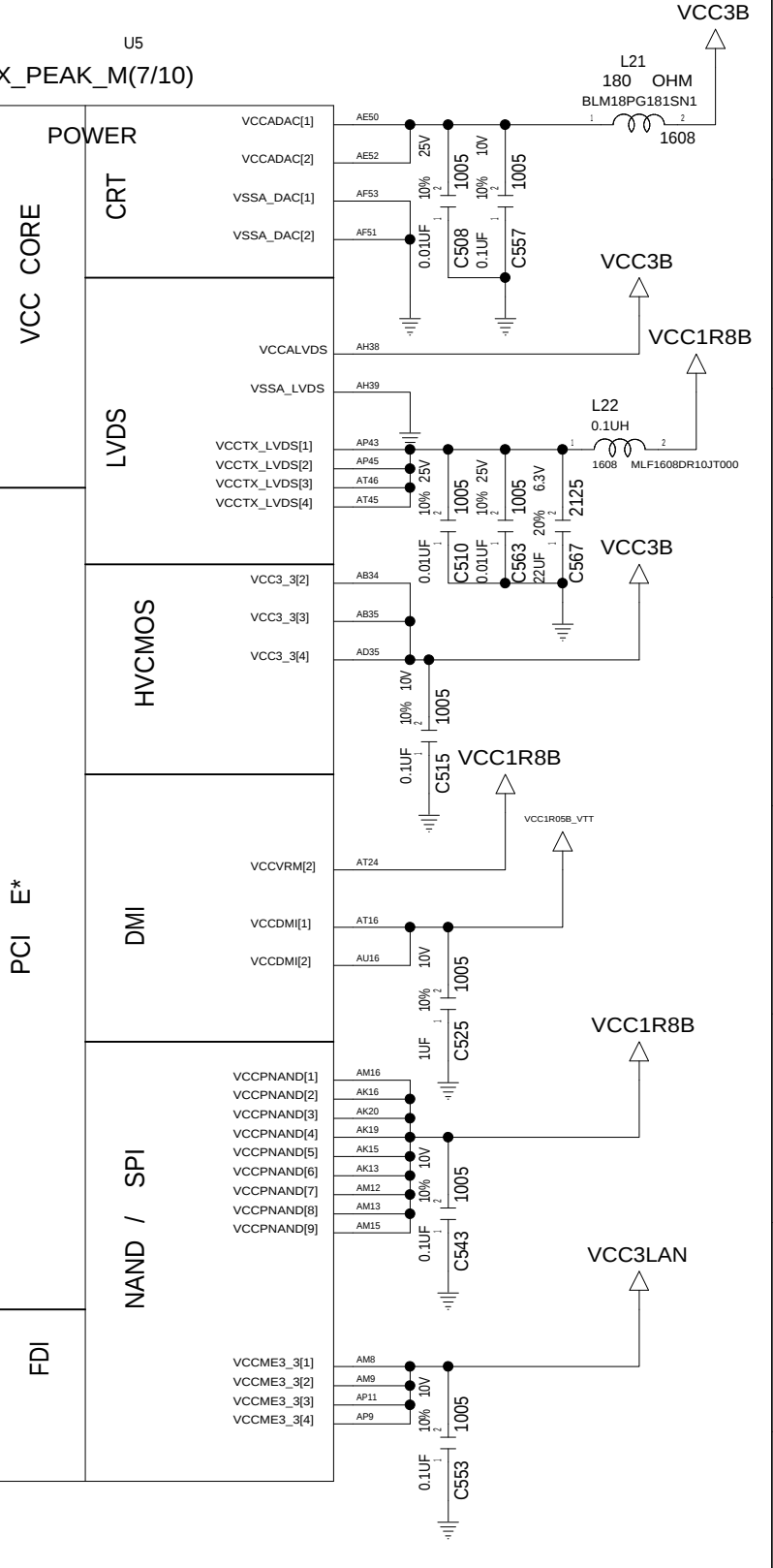
TABLE	
NV_ALE	
HIGH	: ENABLE AT-D
LOW	: DISABLE AT-D

USB PORT TO	
0	SYSTEM PORT 4
1	SYSTEM PORT 2
2	HALF MINICARD (WLAN)
3	FULL MINICARD (WWAN)
4	HALF MINICARD (WUSB)
5	SMART CARD SLOT
6	EXPRESS CARD SLOT
7	USB CAMERA (LCD)
8	SYSTEM PORT 3
9	SYSTEM PORT 1
10	FPR (TOUCH PAD)
11	BLUETOOTH (TOUCH PAD)
12	DOCKING
13	RESERVED

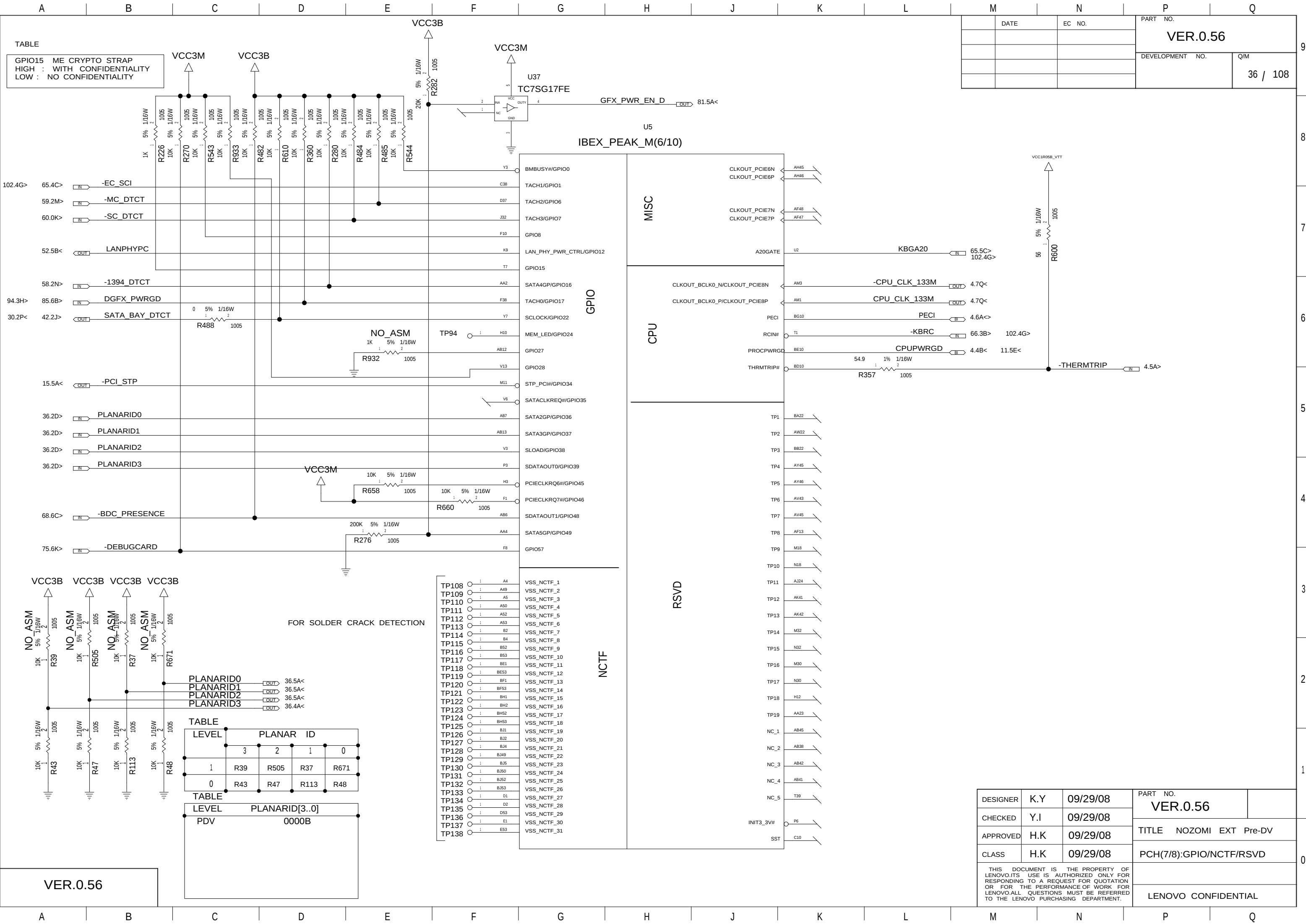
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CHECKED	Y.I	09/29/08	VER.0.56	
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	PCH(5/8):PCI/USB/NVM	
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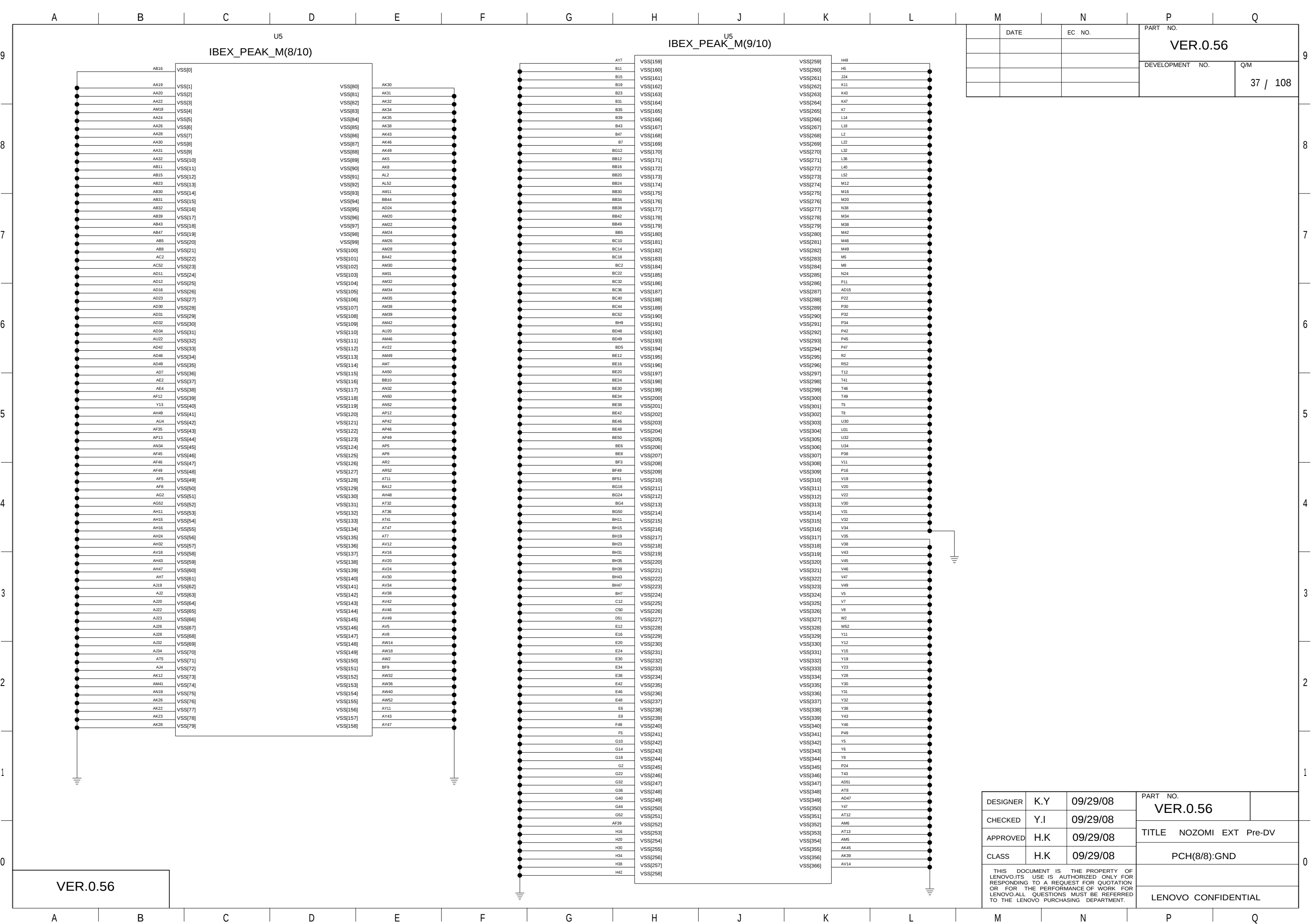
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			VER.0.56	
			DEVELOPMENT NO.	Q/M
				35 / 108

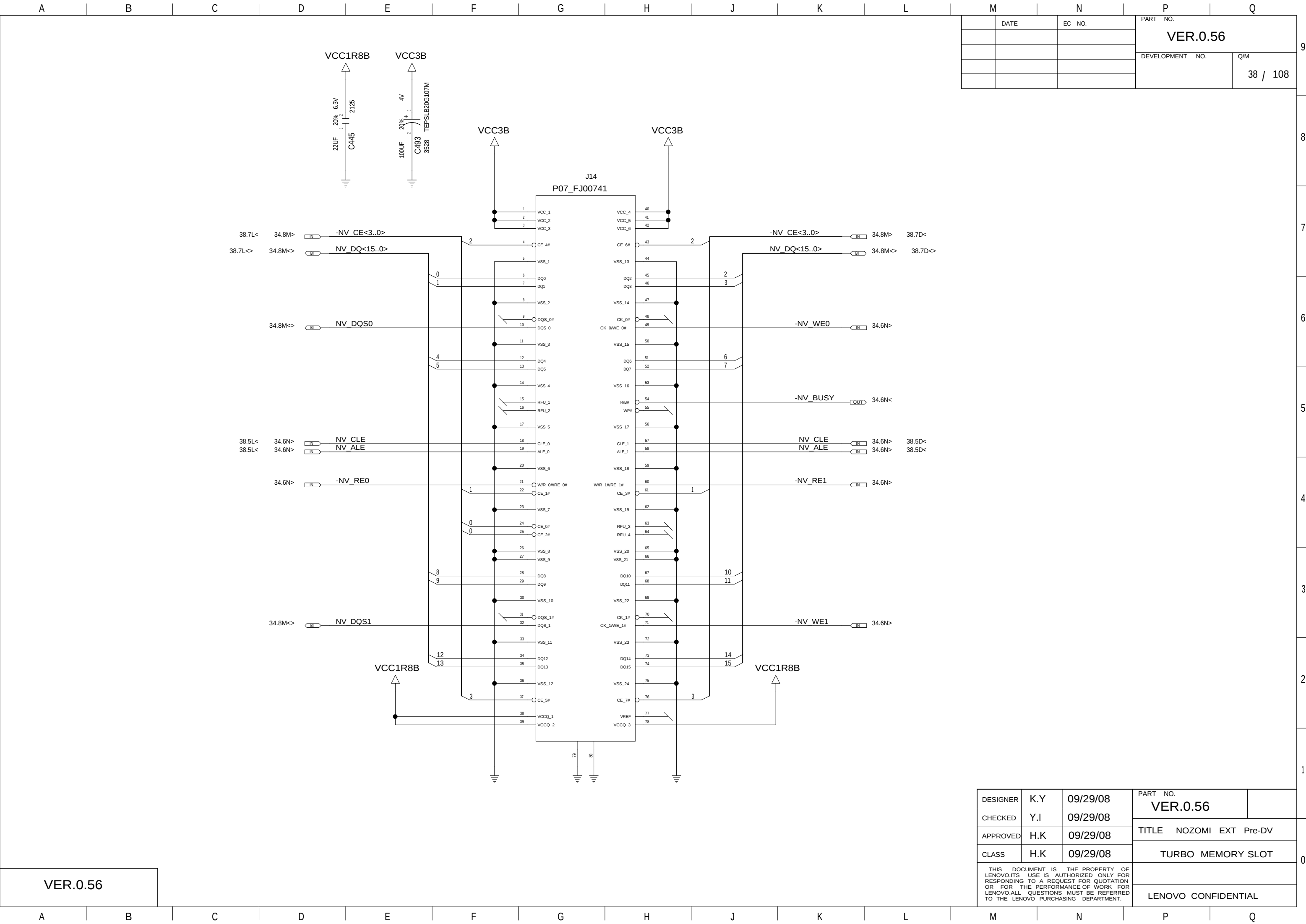


DESIGNER	K.Y	09/29/08	PART NO.	
CHECKED	Y.I	09/29/08	VER.0.56	
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	PCH(6/8):PWR	
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A		B		C		D		E		F		G		H		J		K		L		M		N		P		Q	
TABLE GPIO15 ME CRYPTO STRAP HIGH : WITH CONFIDENTIALITY LOW : NO CONFIDENTIALITY		VCC3M ↑		VCC3B ↑		VCC3B ↑ 5% 1/16W 202 1005		VCC3M ↑ U37 TC7SG175F				DATE		EC NO.		PART NO.		VER.0.56		9									
																		DEVELOPMENT NO.		Q/M									
																										36 / 108			

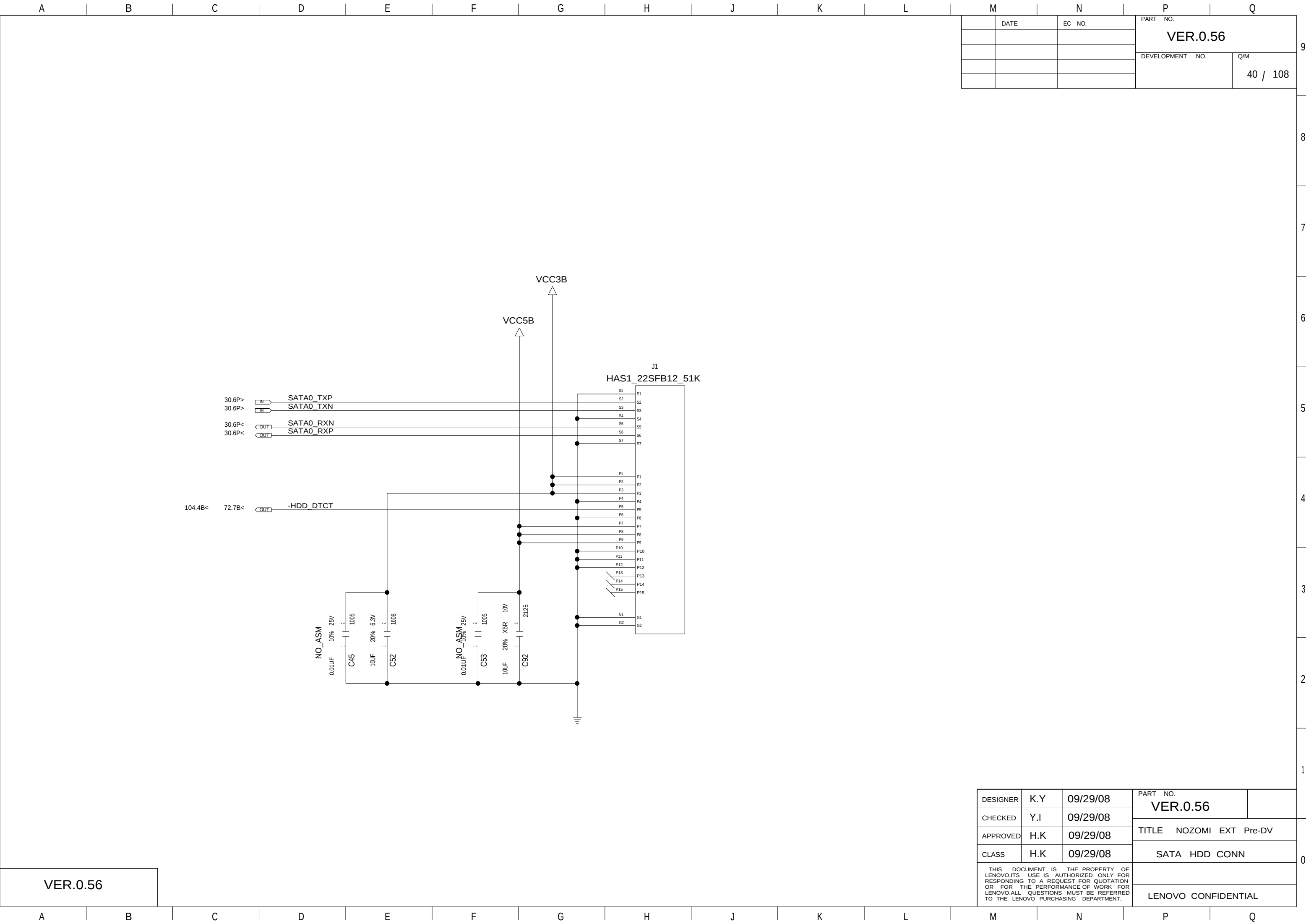




DATE		EC NO.	PART NO.	
			VER.0.56	
			DEVELOPMENT NO.	
			Q/M	
			38 / 108	

VER.0.56

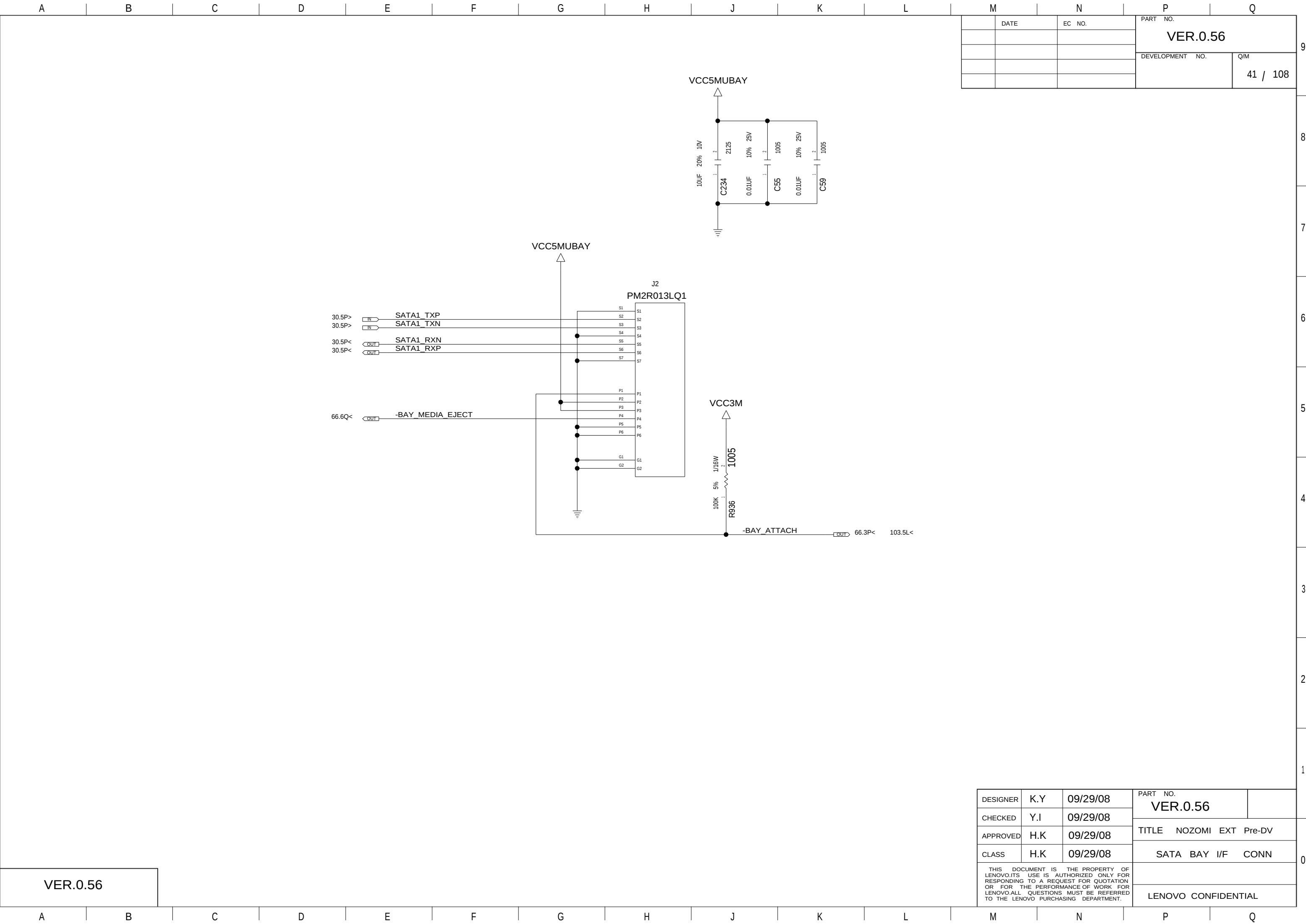
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CHECKED	Y.I	09/29/08	VER.0.56	
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	TURBO MEMORY SLOT	
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DATE		EC NO.		PART NO.	
				VER.0.56	

VER.0.56

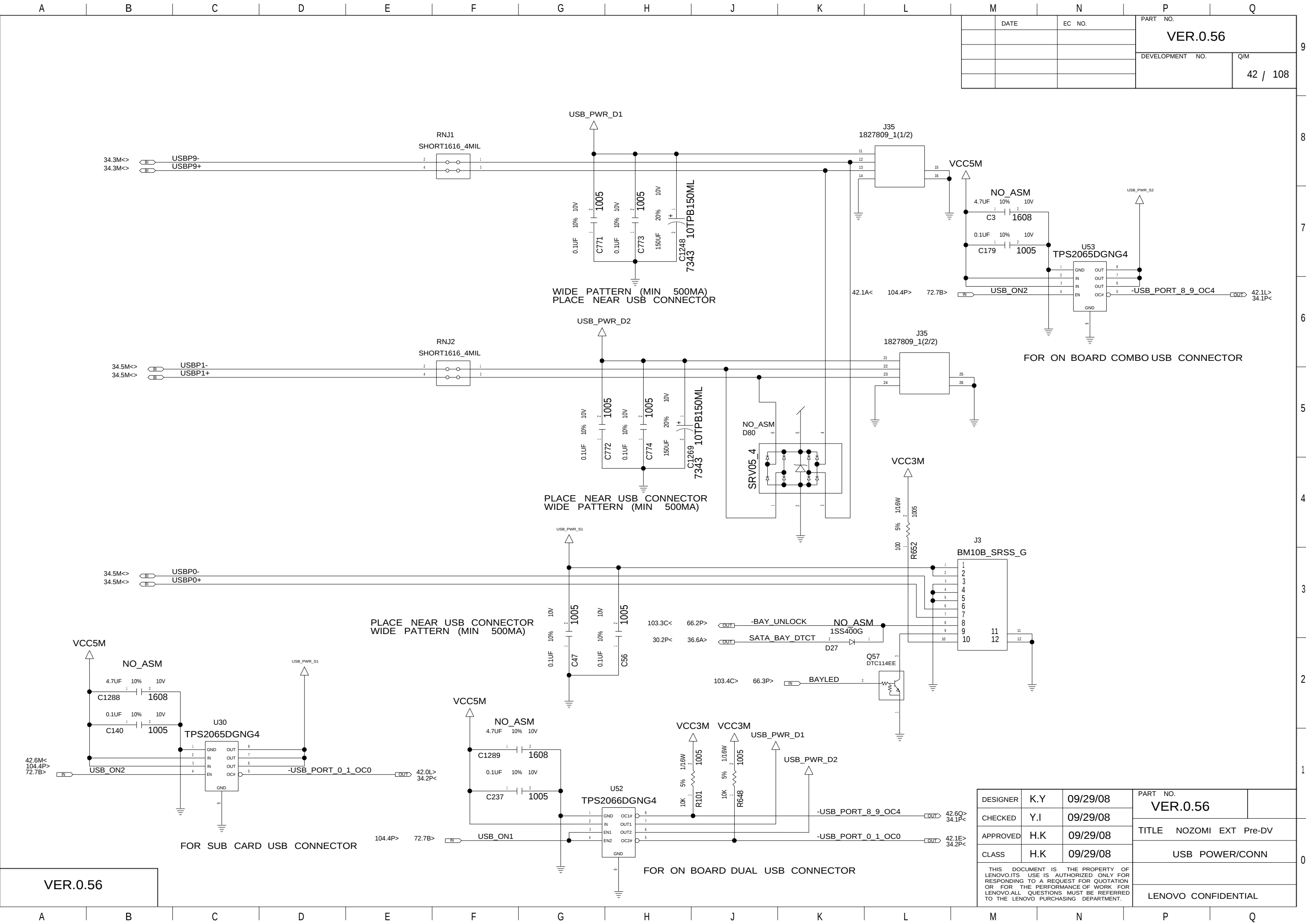
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CHECKED	Y.I	09/29/08	VER.0.56	
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	SATA HDD CONN	
THIS DOCUMENT IS THE PROPERTY OF LENOVO.ITS USE IS AUTHORIZED ONLY FOR RESPONDING TO A REQUEST FOR QUOTATION OR FOR THE PERFORMANCE OF WORK FOR LENOVO.ALL QUESTIONS MUST BE REFERRED TO THE LENOVO PURCHASING DEPARTMENT.				
			LENOVO CONFIDENTIAL	



DATE		EC NO.		PART NO.	
				VER.0.56	
				DEVELOPMENT NO.	
				Q/M	
				41 / 108	

VER.0.56

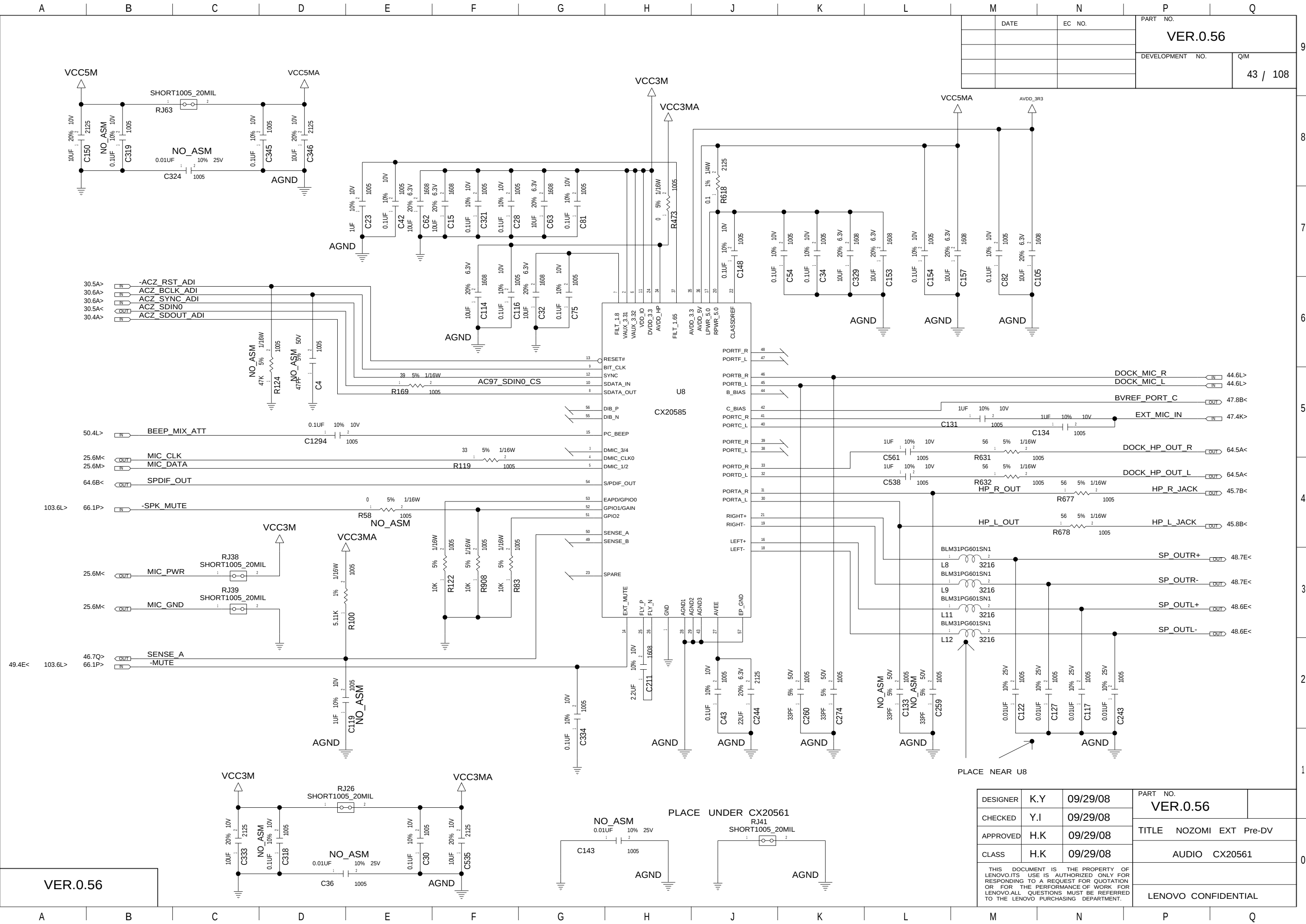
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CHECKED	Y.I	09/29/08	VER.0.56	
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	SATA BAY I/F CONN	
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			LENOVO CONFIDENTIAL	



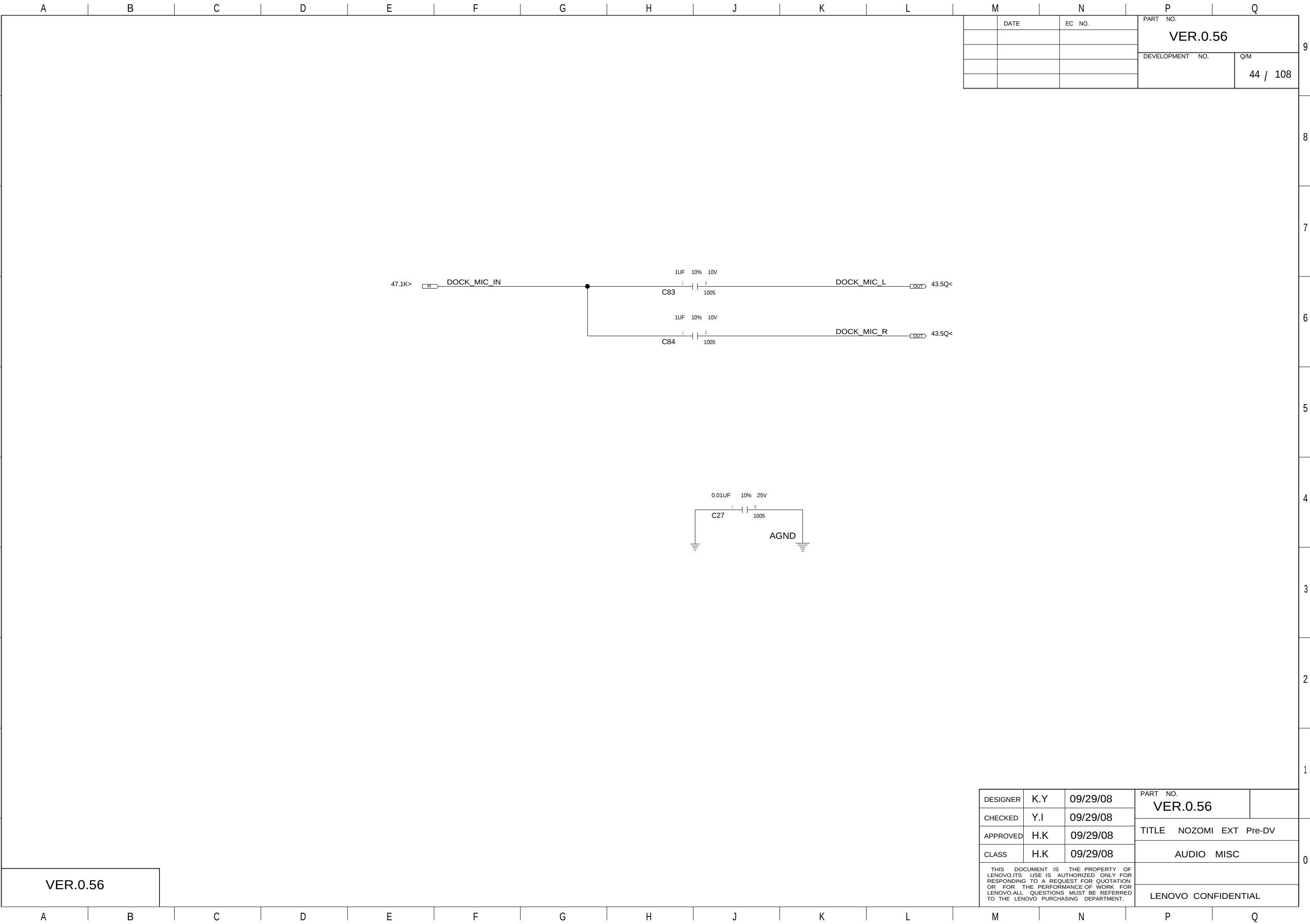
DATE		EC NO.	PART NO.	
			VER.0.56	
			DEVELOPMENT NO.	
			Q/M	
			42 / 108	

VER.0.56

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	USB POWER/CONN	
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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	AUDIO CX20561	
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VER.0.56

VER.0.56

DEVELOPMENT NO.

Q/M

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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

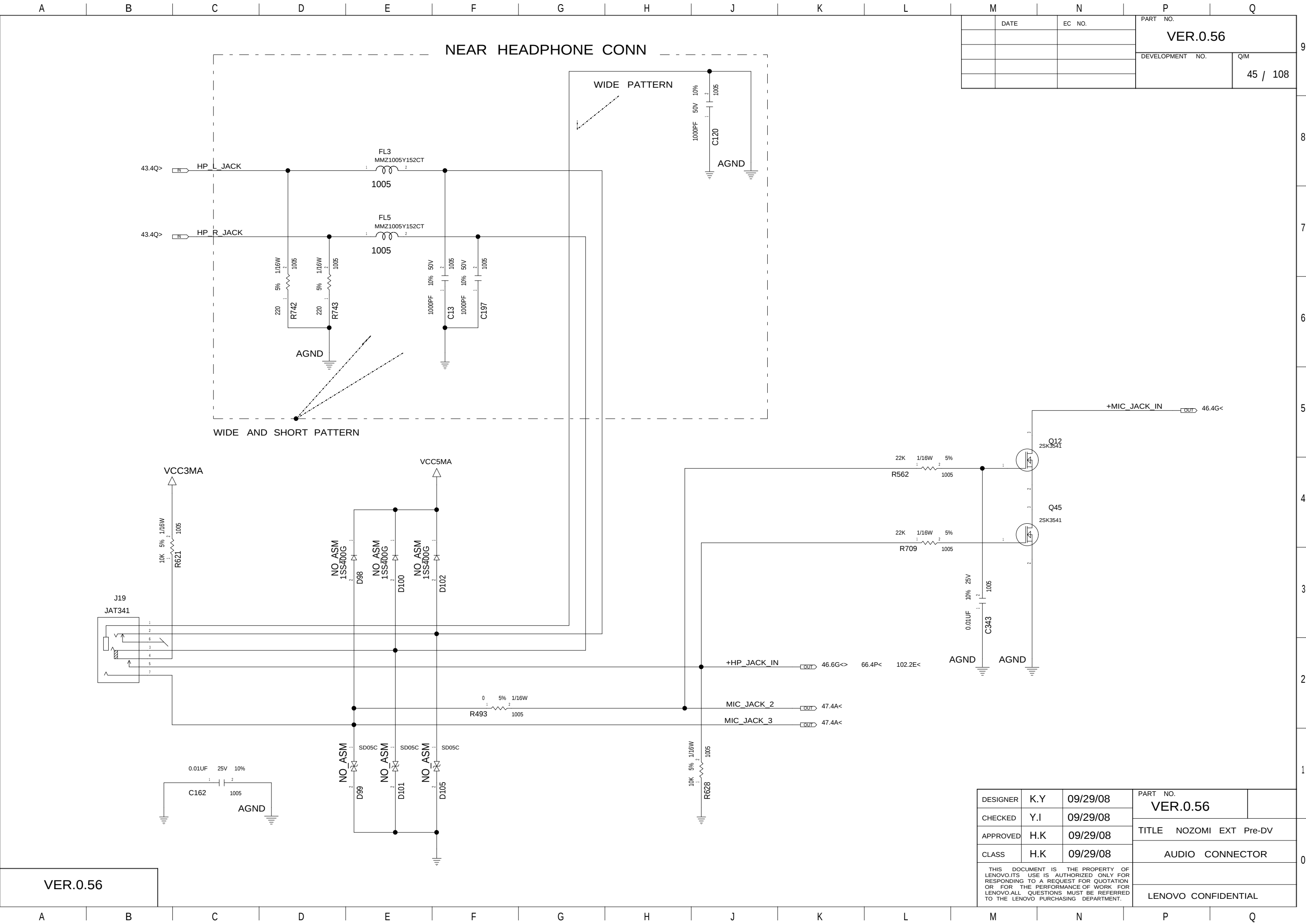
PART NO.
VER.0.56

TITLE
NOZOMI EXT Pre-DV

AUDIO MISC

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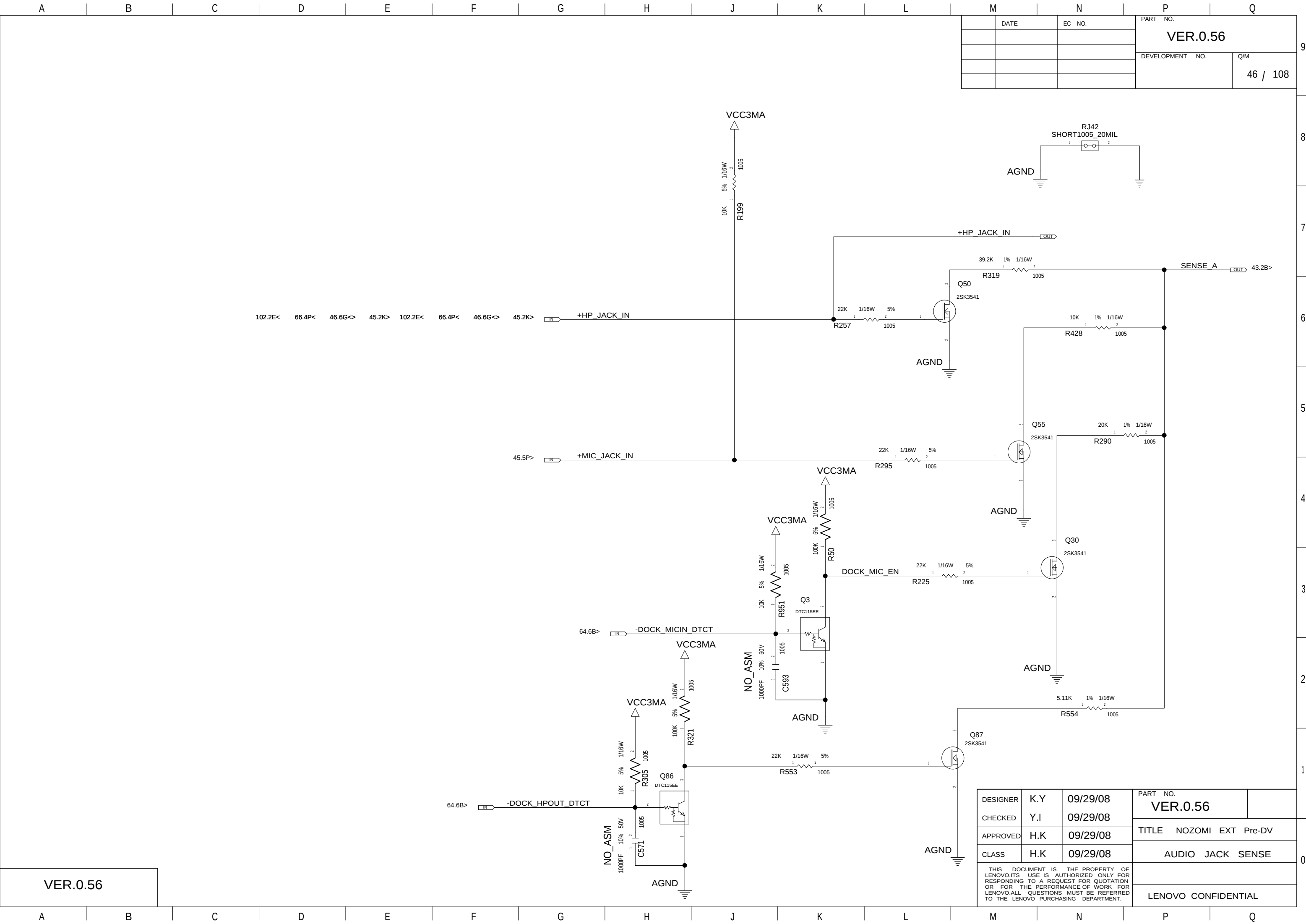
LENOVO CONFIDENTIAL



		PART NO.	
		VER.0.56	
		DEVELOPMENT NO.	
		Q/M	
		45 / 108	

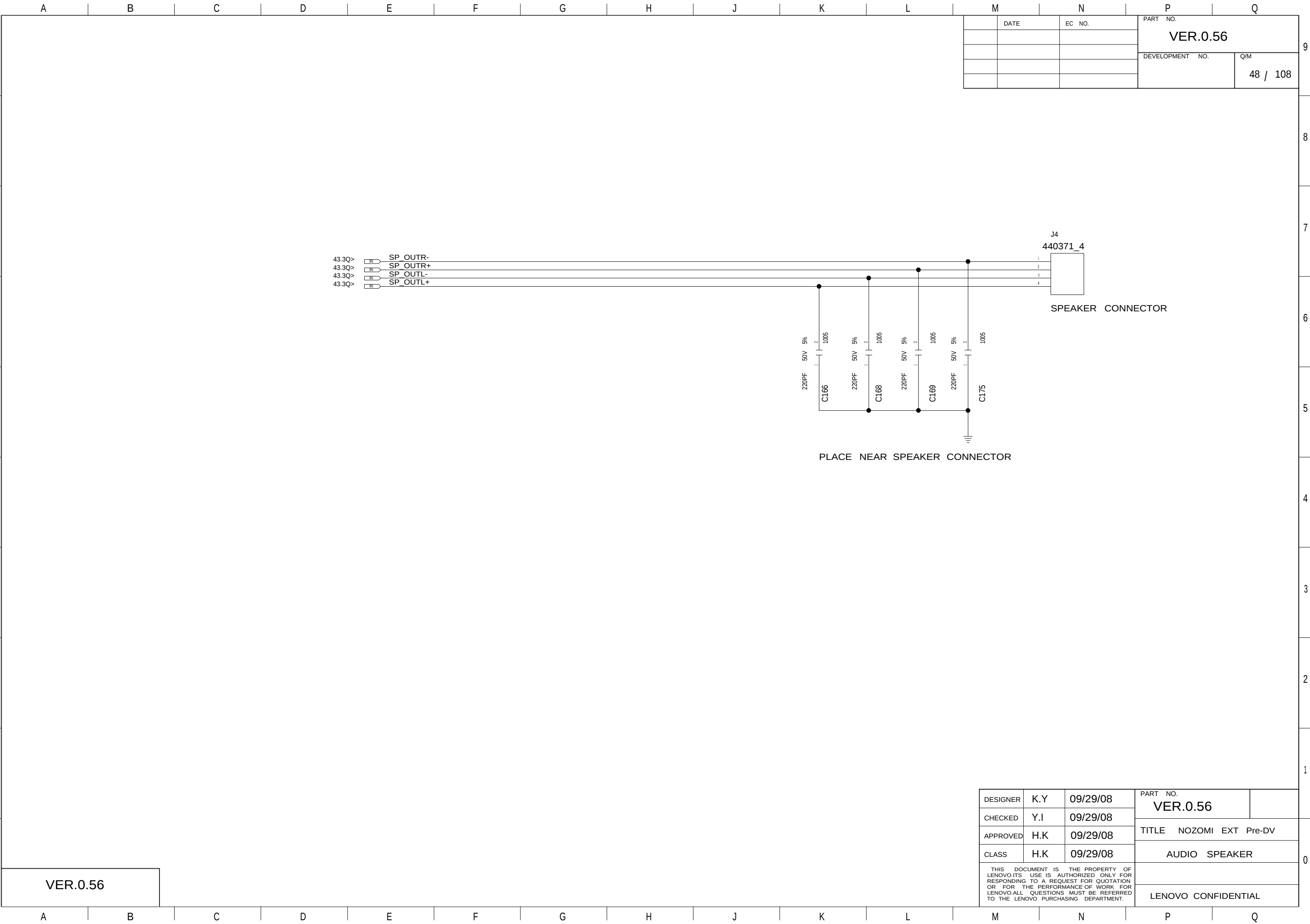
VER.0.56

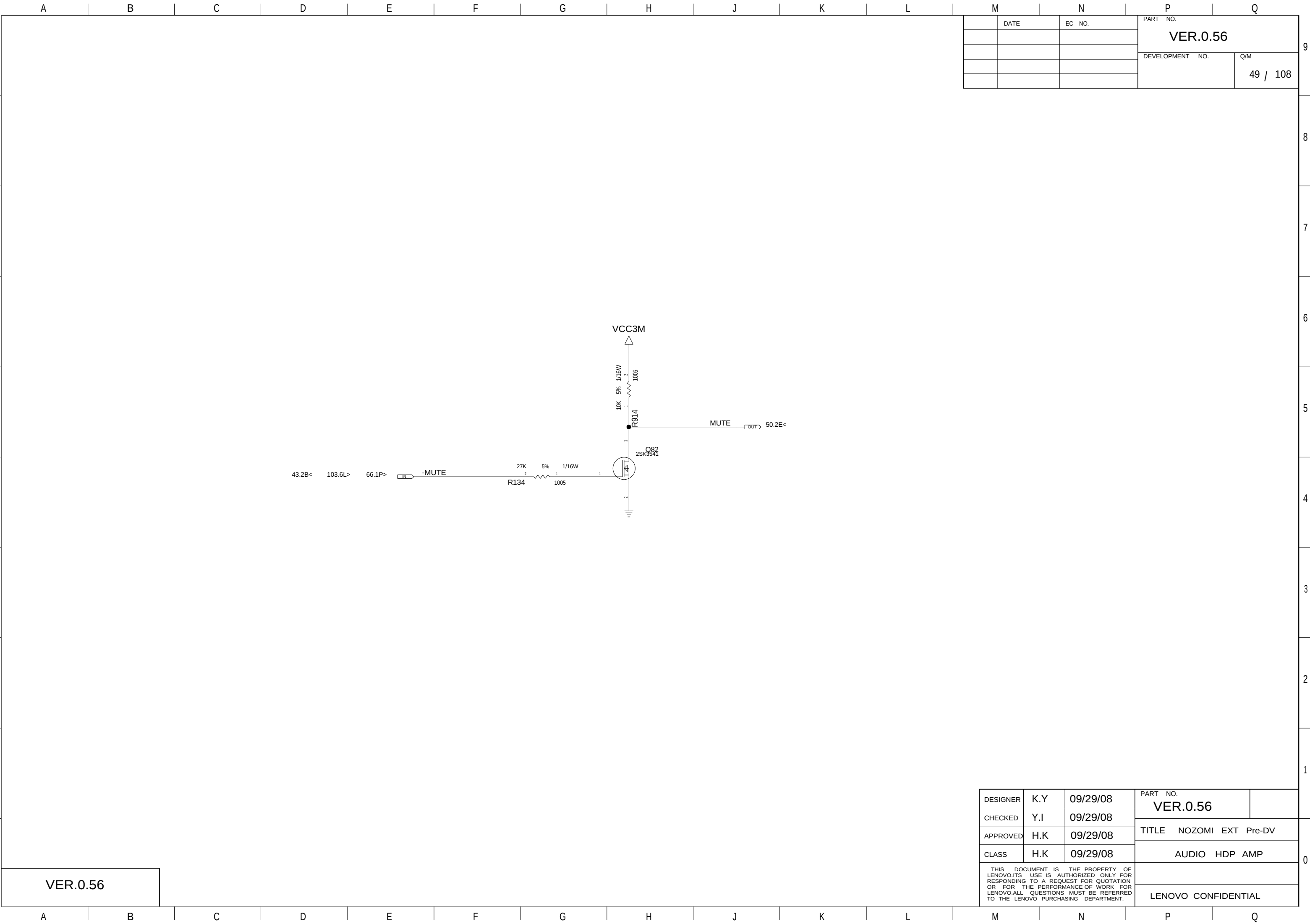
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CHECKED	Y.I	09/29/08	VER.0.56	
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	AUDIO CONNECTOR	
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			LENOVO CONFIDENTIAL	

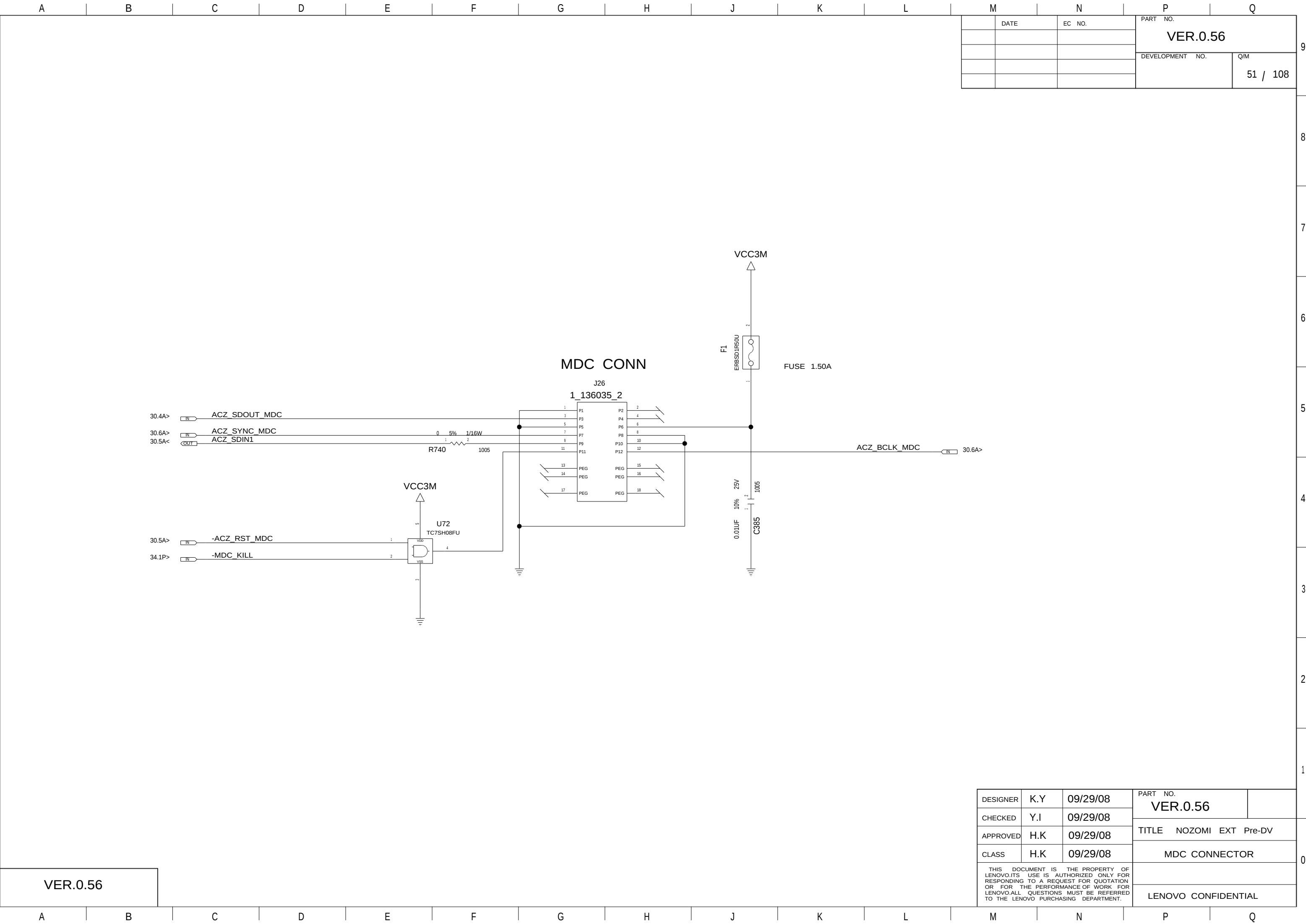


		PART NO.	
		VER.0.56	
		DEVELOPMENT NO.	
		Q/M	
		46 / 108	

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	AUDIO JACK SENSE	
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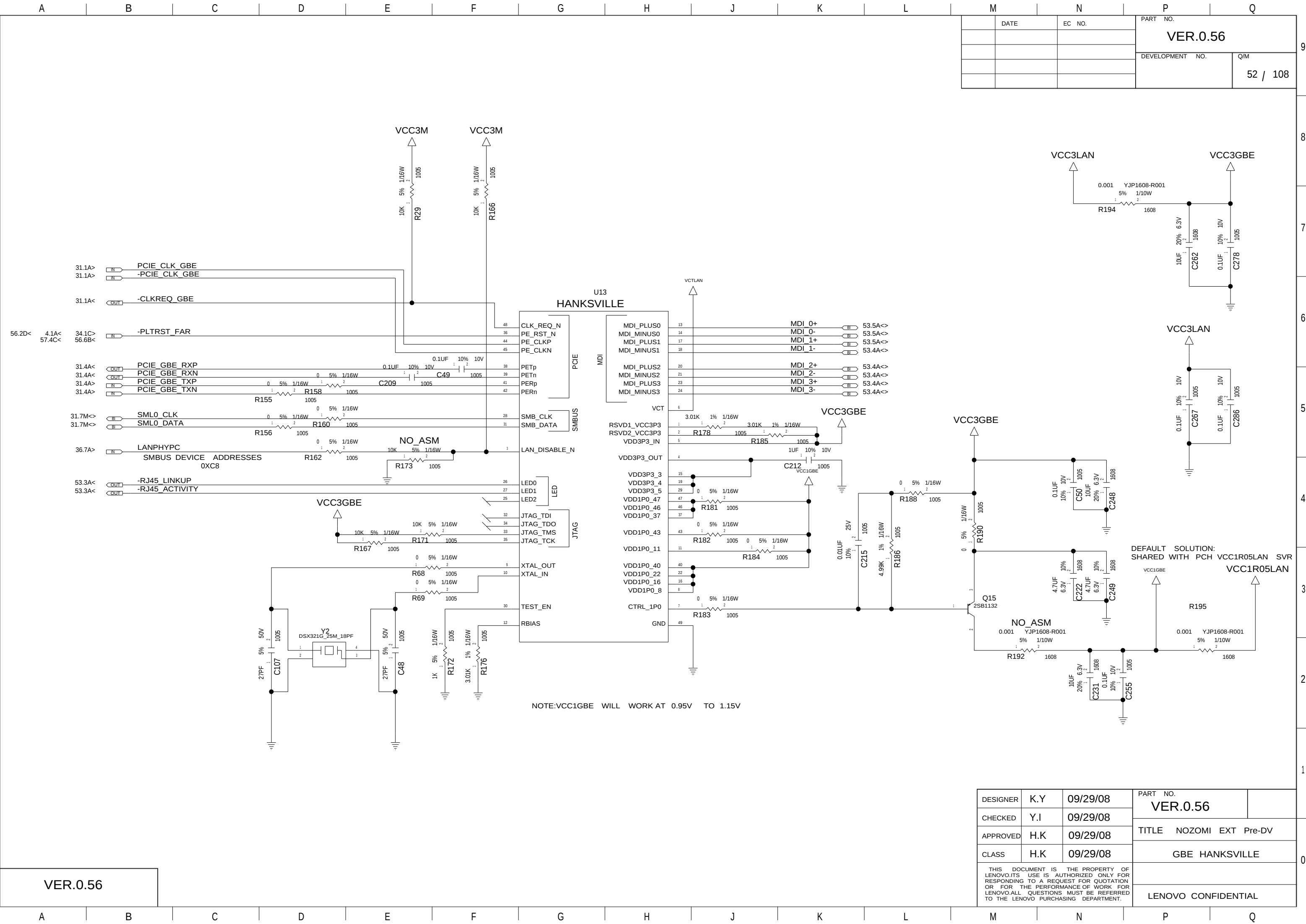




DATE		EC NO.	PART NO.	
			VER.0.56	
			DEVELOPMENT NO.	
			Q/M	
			51 / 108	

VER.0.56

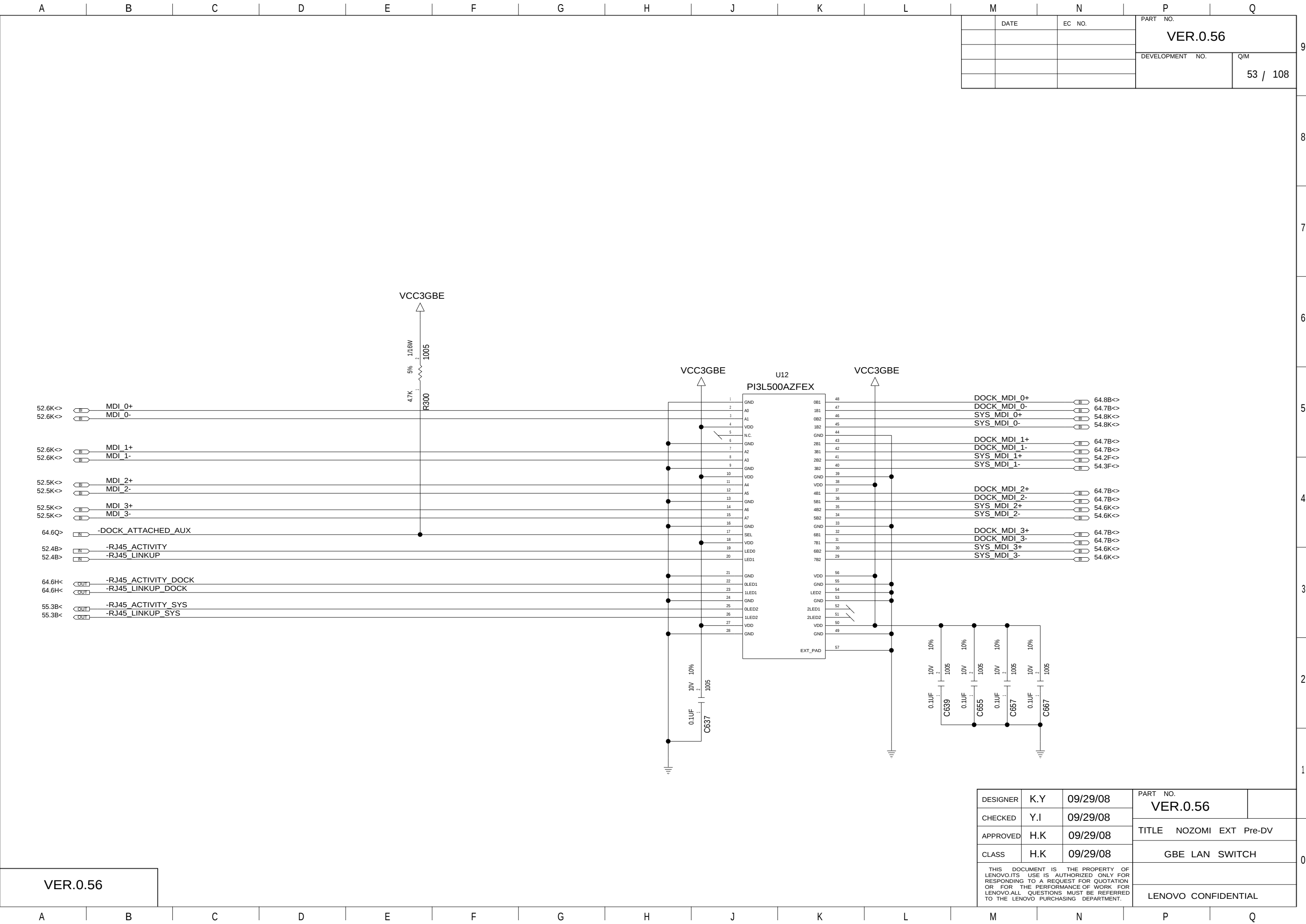
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CHECKED	Y.I	09/29/08	VER.0.56	
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	MDC CONNECTOR	
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DATE		EC NO.	PART NO.	
			VER.0.56	
			DEVELOPMENT NO.	
			Q/M	
			52 / 108	

VER.0.56

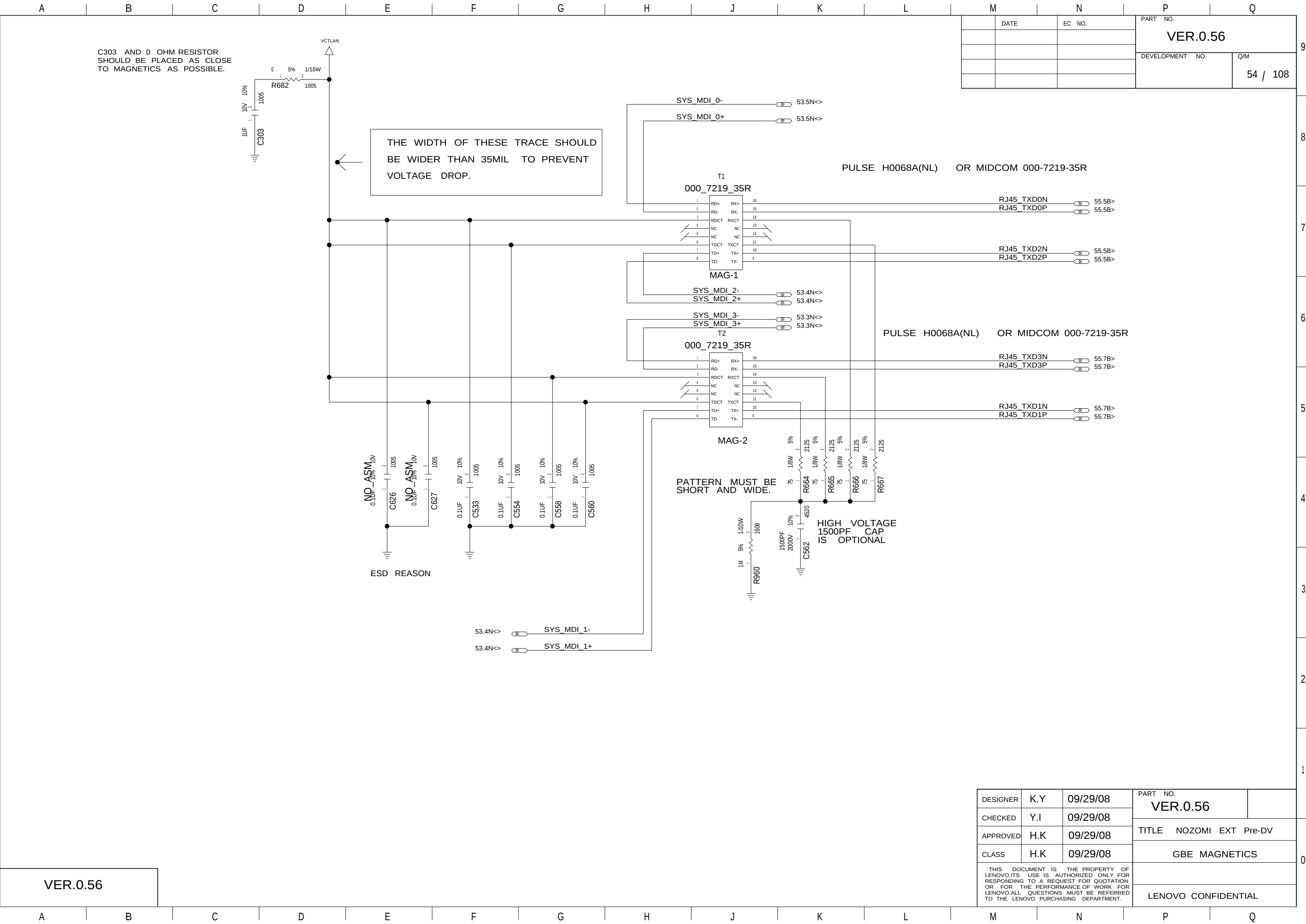
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CHECKED	Y.I	09/29/08	VER.0.56	
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	GBE HANKSVILLE	
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		DATE		EC NO.		PART NO.					
						VER.0.56					
						DEVELOPMENT NO.		Q/M			
								53 / 108			

VER.0.56

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 LAN SWITCH		
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			LENOVO CONFIDENTIAL		



C303 AND 0 OHM RESISTOR SHOULD BE PLACED AS CLOSE TO MAGNETICS AS POSSIBLE.

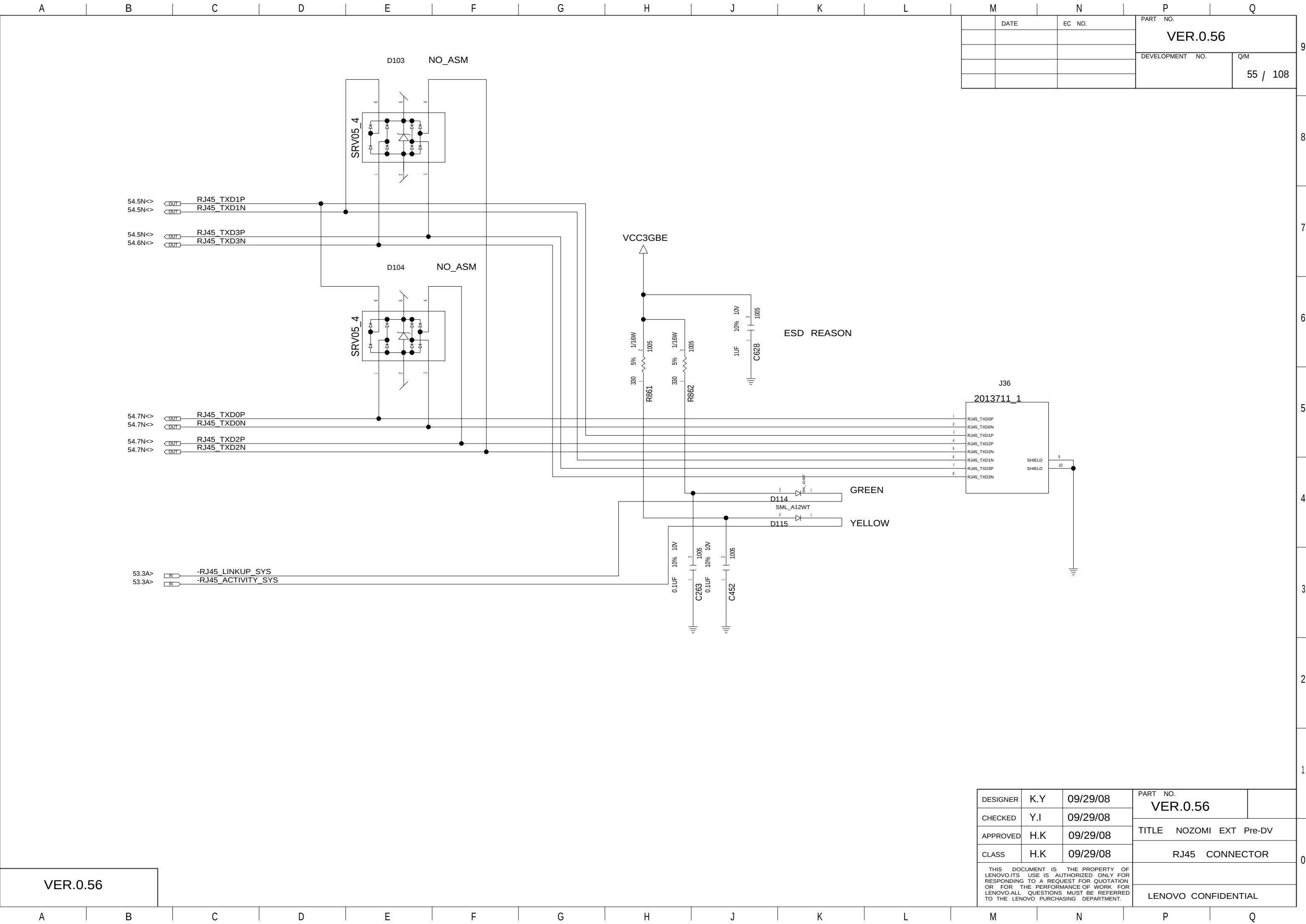
THE WIDTH OF THESE TRACE SHOULD BE WIDER THAN 35MIL TO PREVENT VOLTAGE DROP.

PATTERN MUST BE SHORT AND WIDE.

HIGH VOLTAGE 1500PF CAP IS OPTIONAL

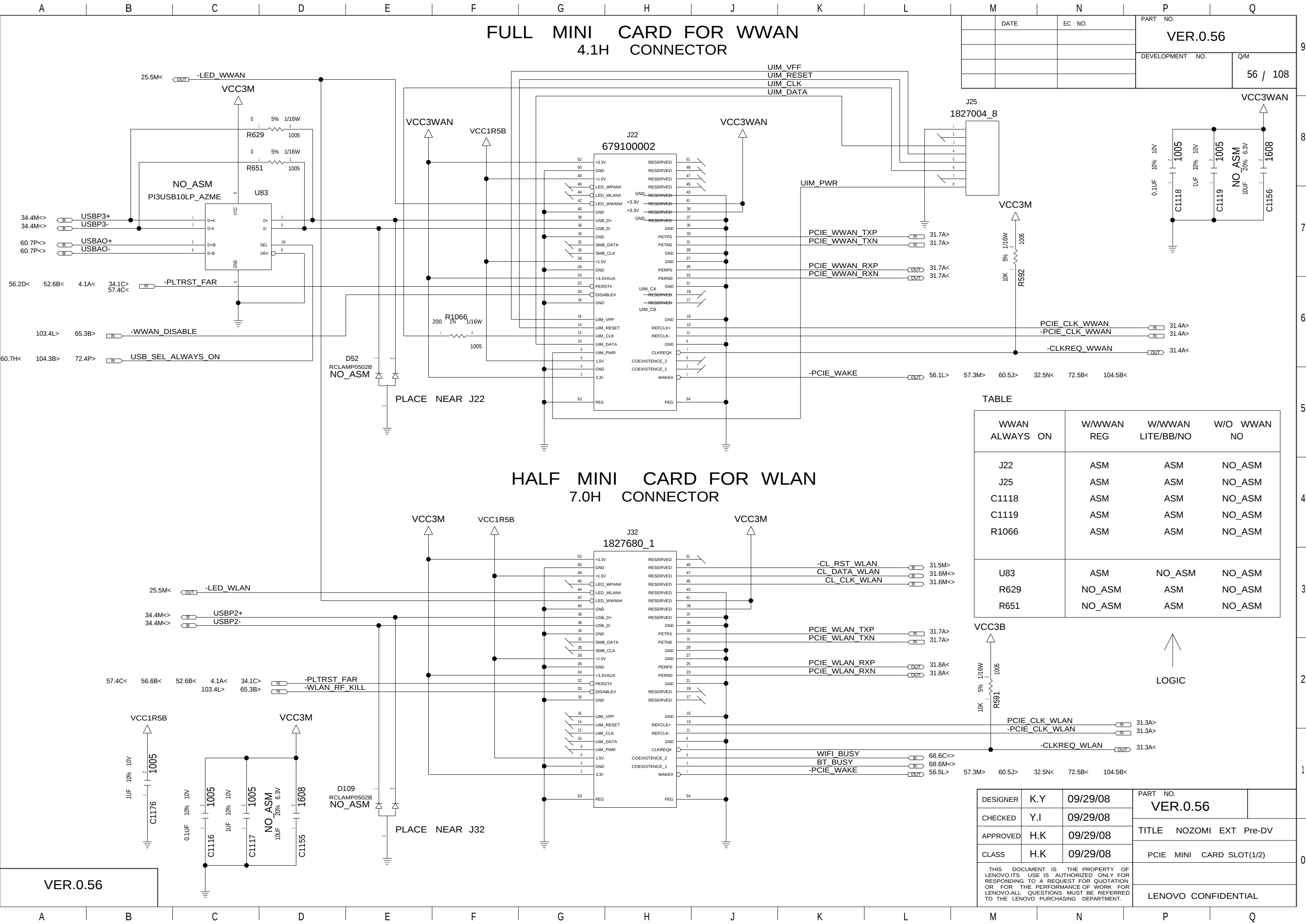
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CHECKED	Y.I	09/29/08		
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CLASS	H.K	09/29/08	GBE MAGNETICS	
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DATE	EC NO.	PART NO.	VER.0.56
		DEVELOPMENT NO.	Q/M
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DATE		EC NO.	PART NO.	
			VER.0.56	
			DEVELOPMENT NO.	
			Q/M	
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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	RJ45 CONNECTOR	
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FULL MINI CARD FOR WWAN
4.1H CONNECTOR

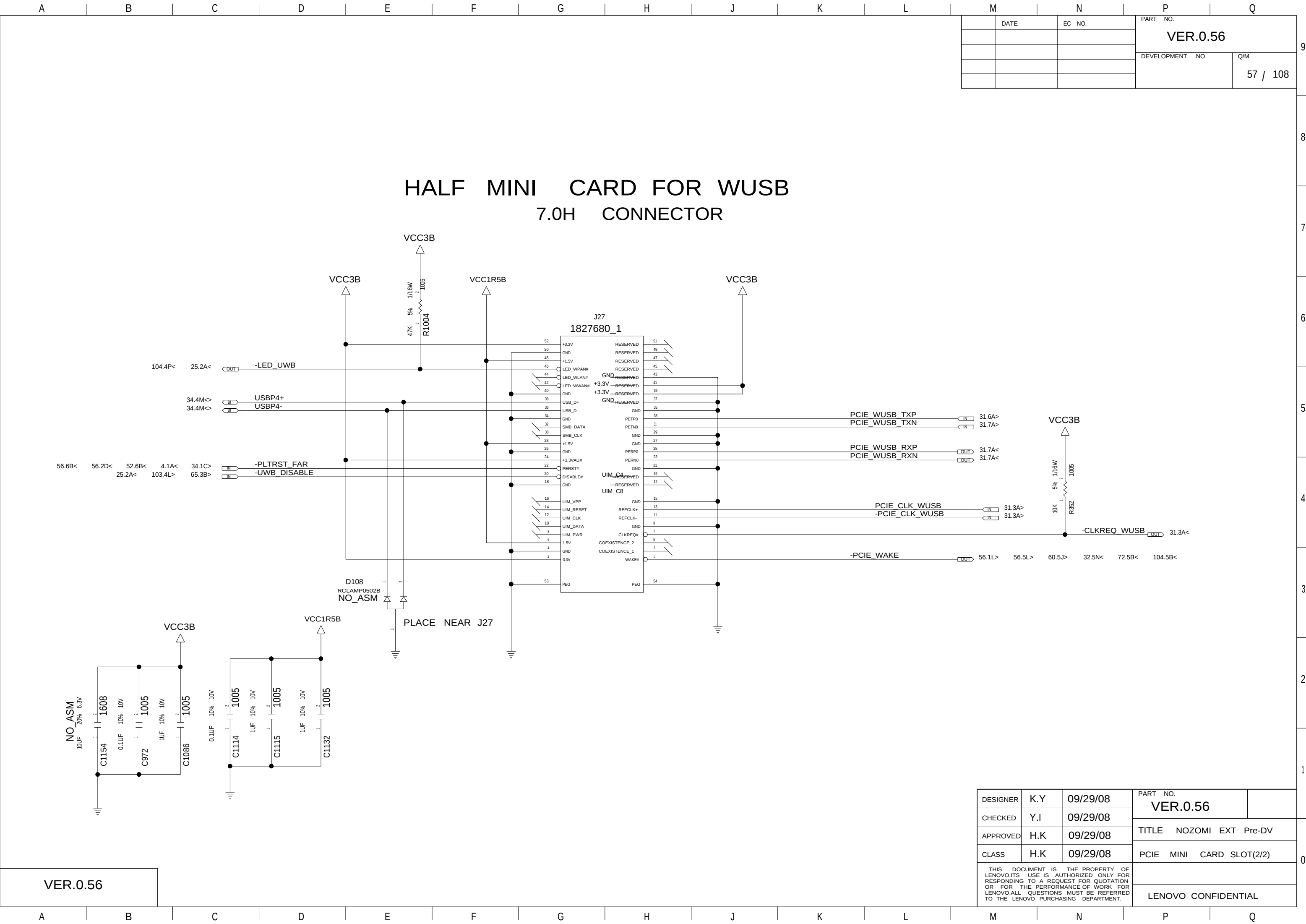
HALF MINI CARD FOR WLAN
7.0H CONNECTOR

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

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

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(1/2)	
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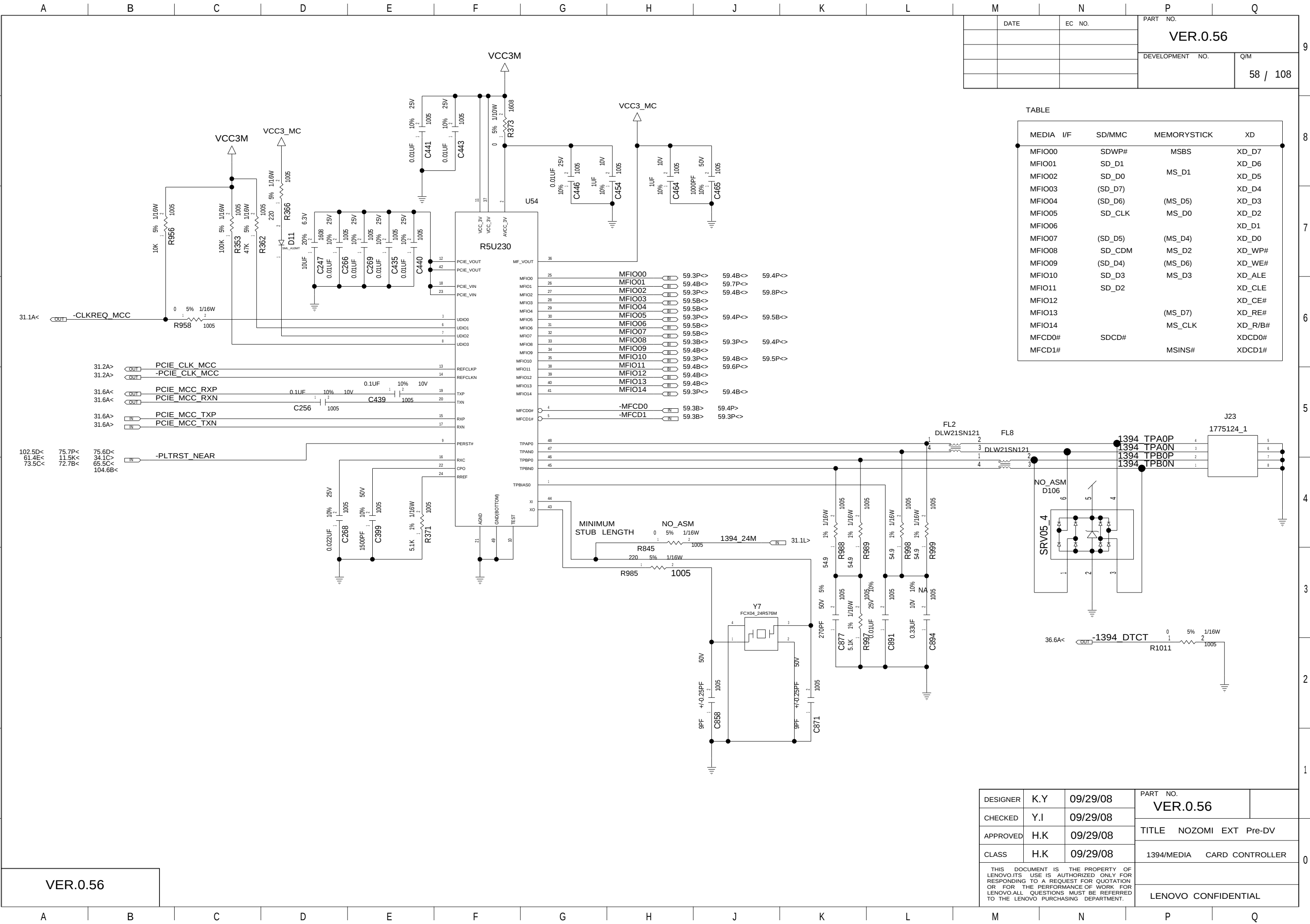


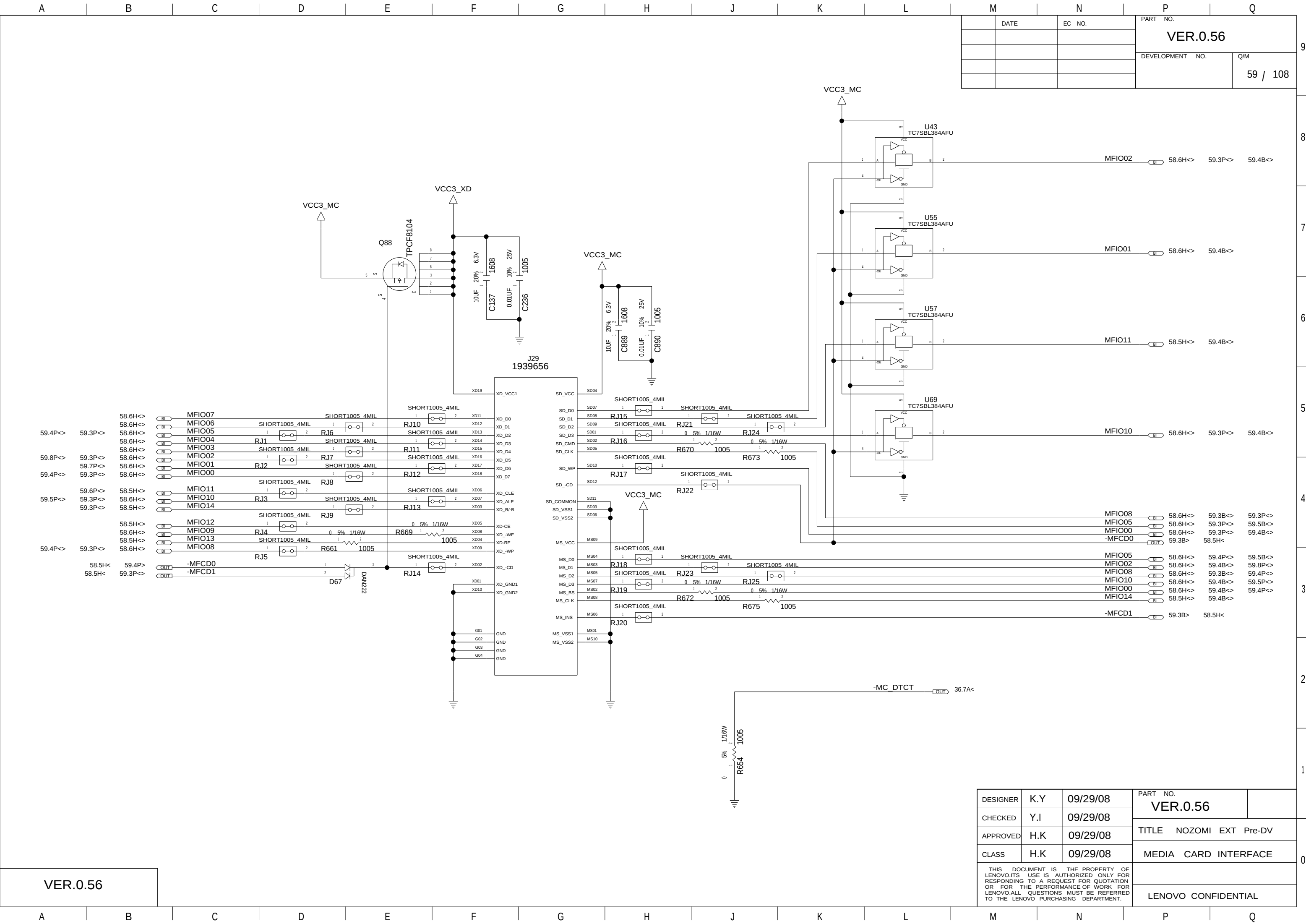
HALF MINI CARD FOR WUSB
7.0H CONNECTOR

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

VER.0.56

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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			LENOVO CONFIDENTIAL	

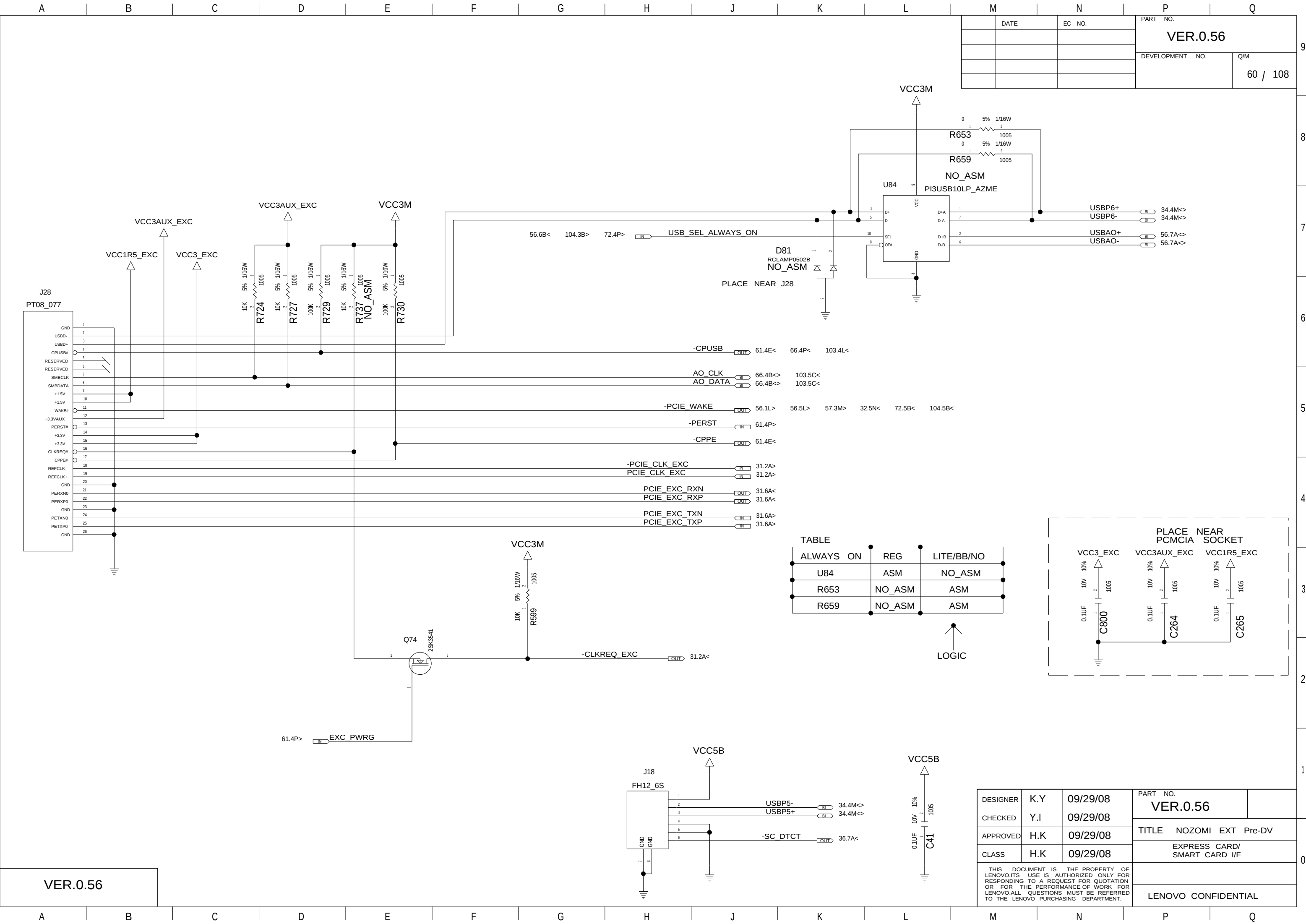




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			VER.0.56	
			DEVELOPMENT NO.	
			Q/M	
			59 / 108	

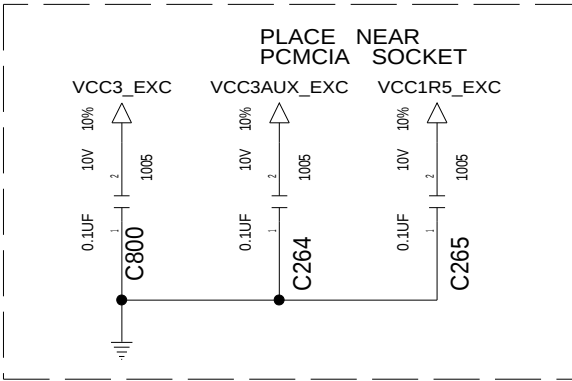
VER.0.56

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	MEDIA CARD INTERFACE	
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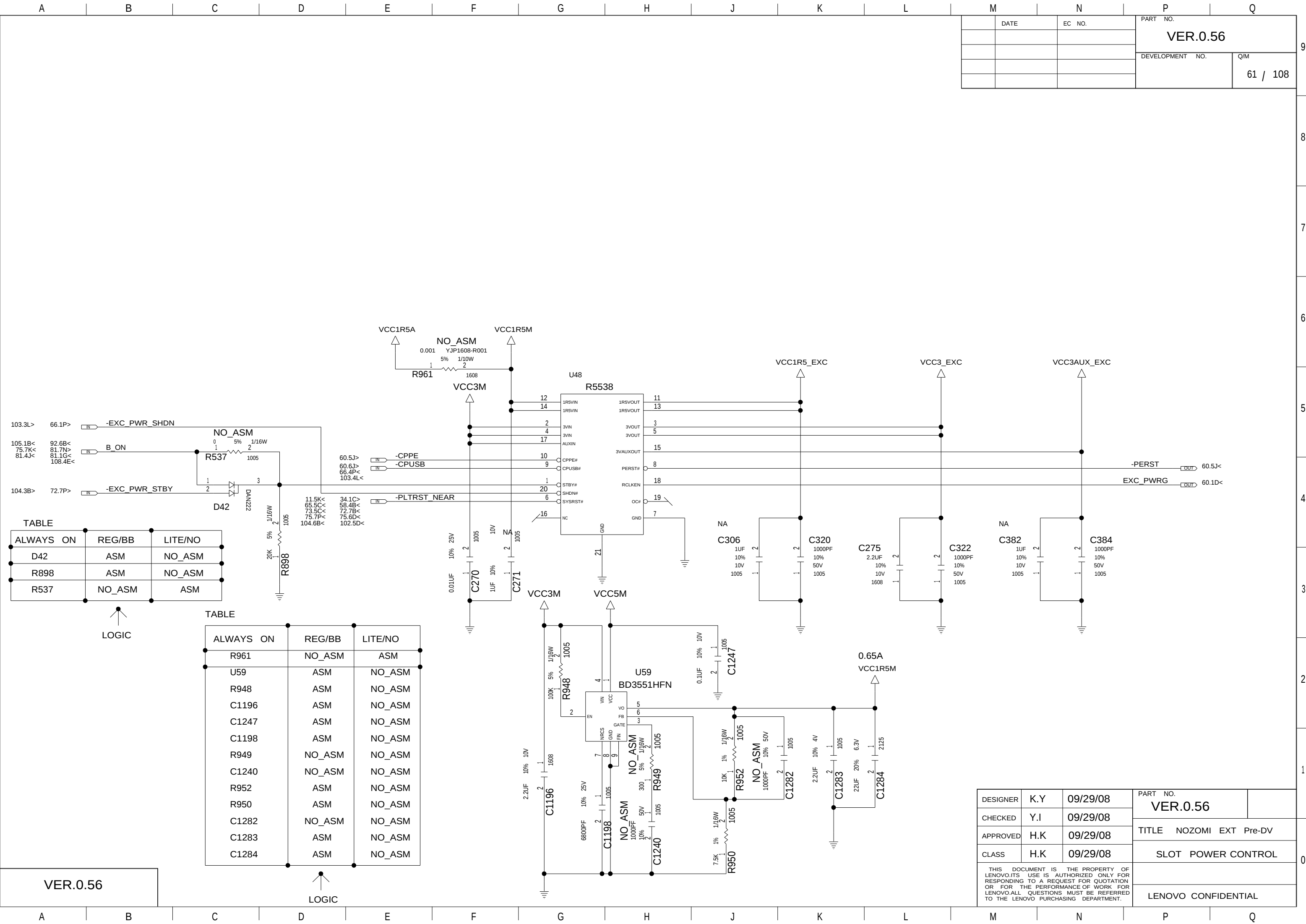


DATE		EC NO.	PART NO.	
			VER.0.56	
			DEVELOPMENT NO.	Q/M
				60 / 108

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



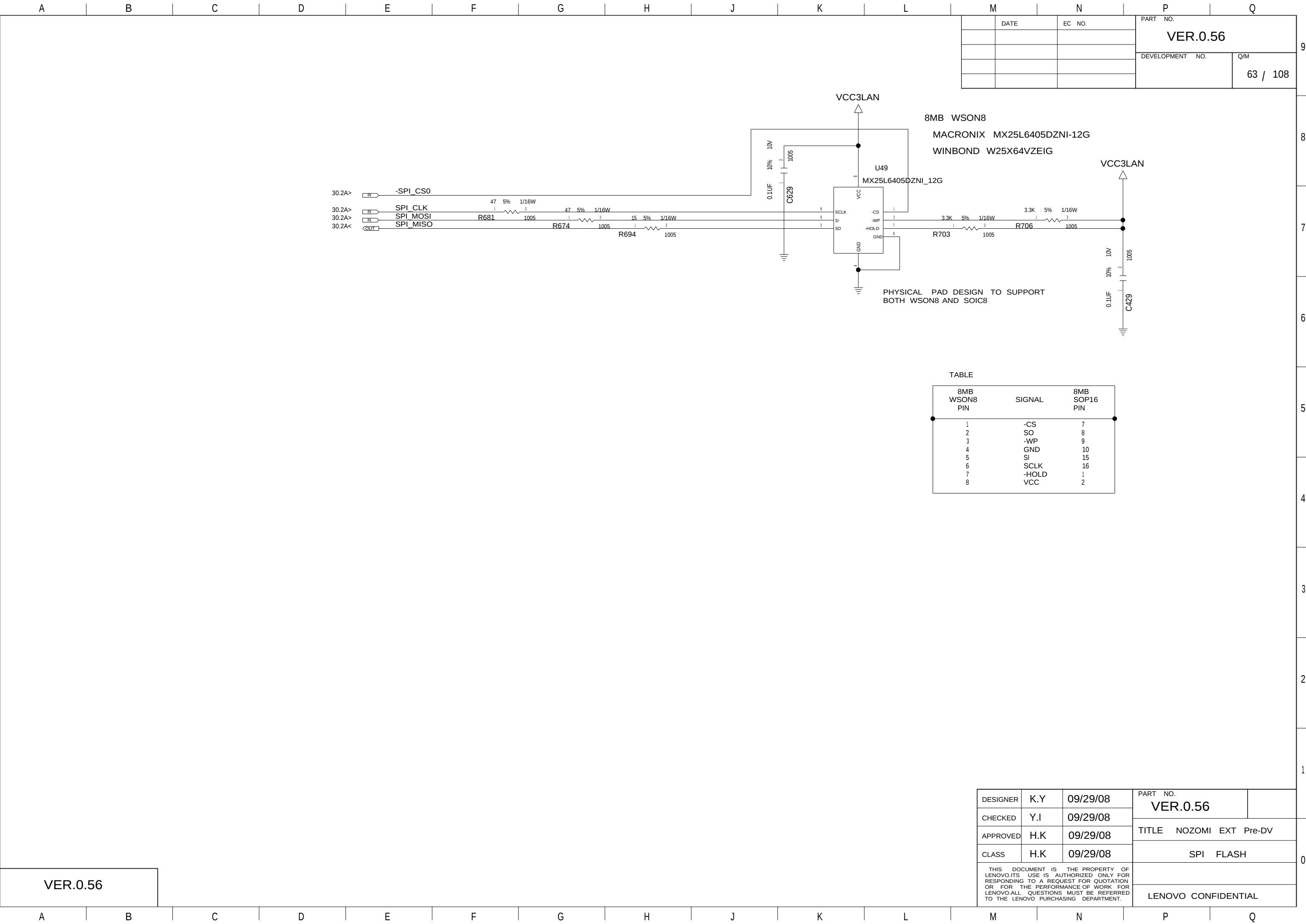
DESIGNER	K.Y	09/29/08	PART NO.	
CHECKED	Y.I	09/29/08	VER.0.56	
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	EXPRESS CARD/SMART CARD I/F	
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A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q		
													DATE	EC NO.	PART NO.	
												VER.0.56				
												DEVELOPMENT NO.		Q/M		
												62 / 108				

VER.0.56

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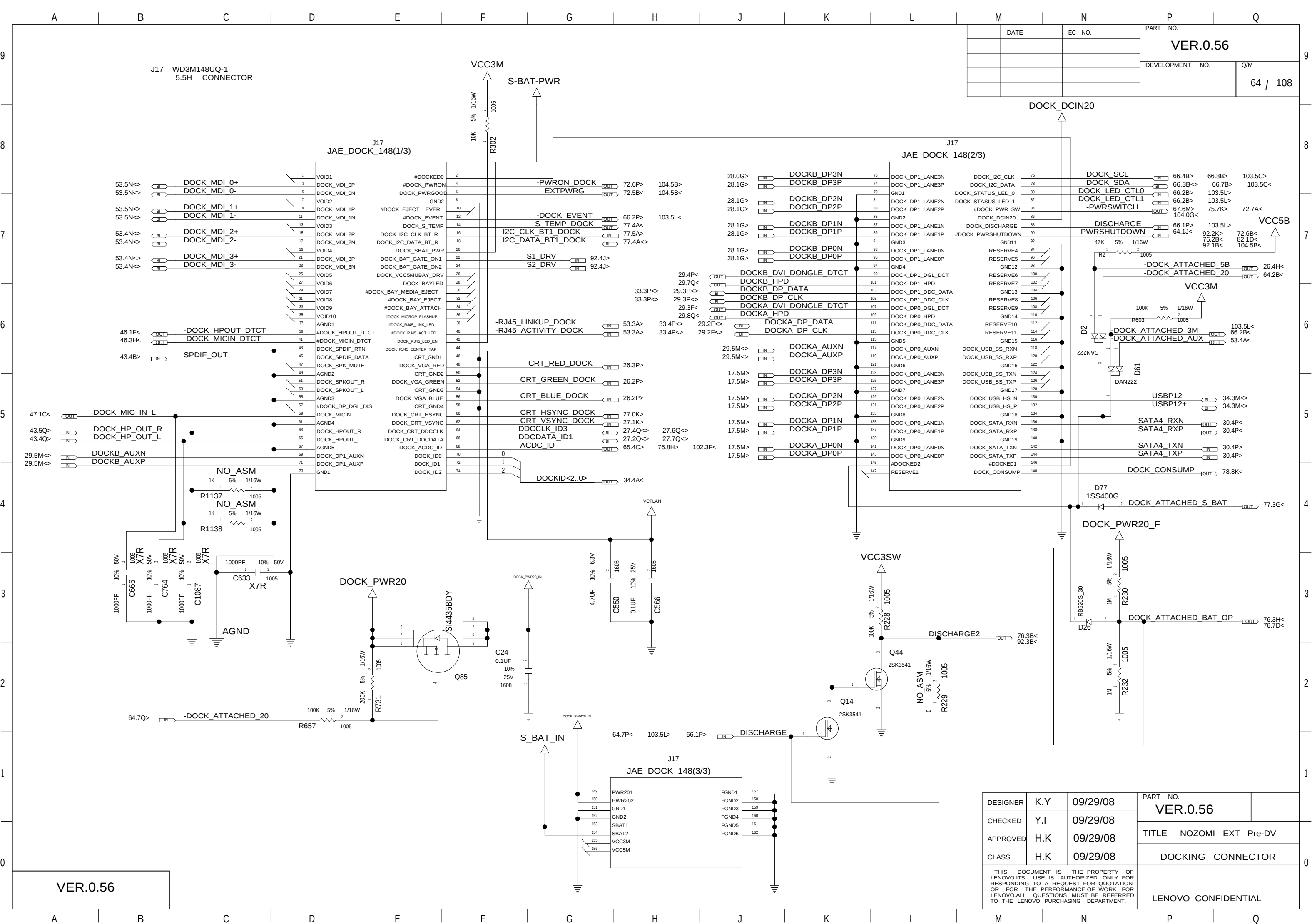
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			VER.0.56	
			DEVELOPMENT NO.	
			Q/M	
			63 / 108	

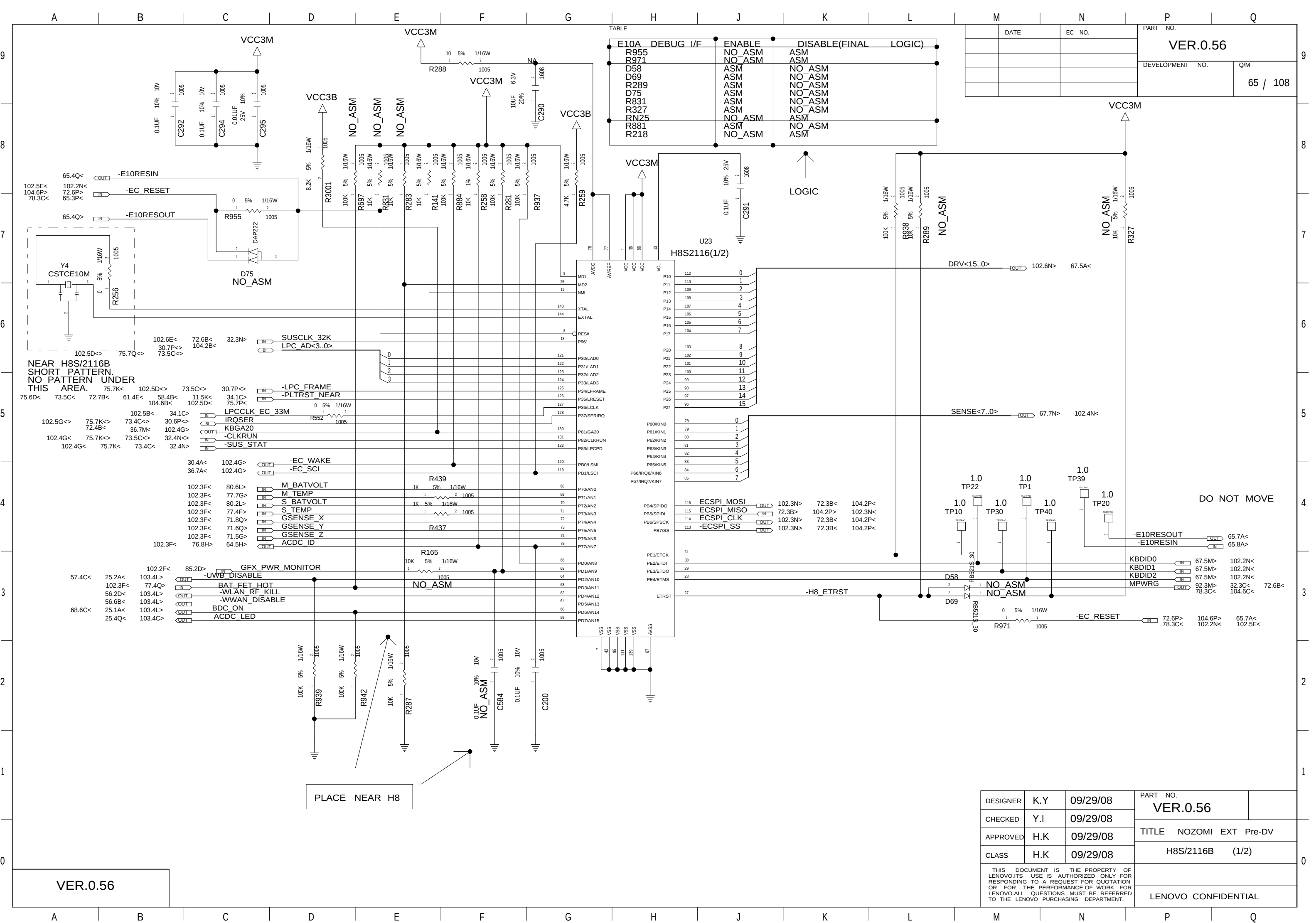
8MB WSON8
MACRONIX MX25L6405DZNI-12G
WINBOND W25X64VZEIG

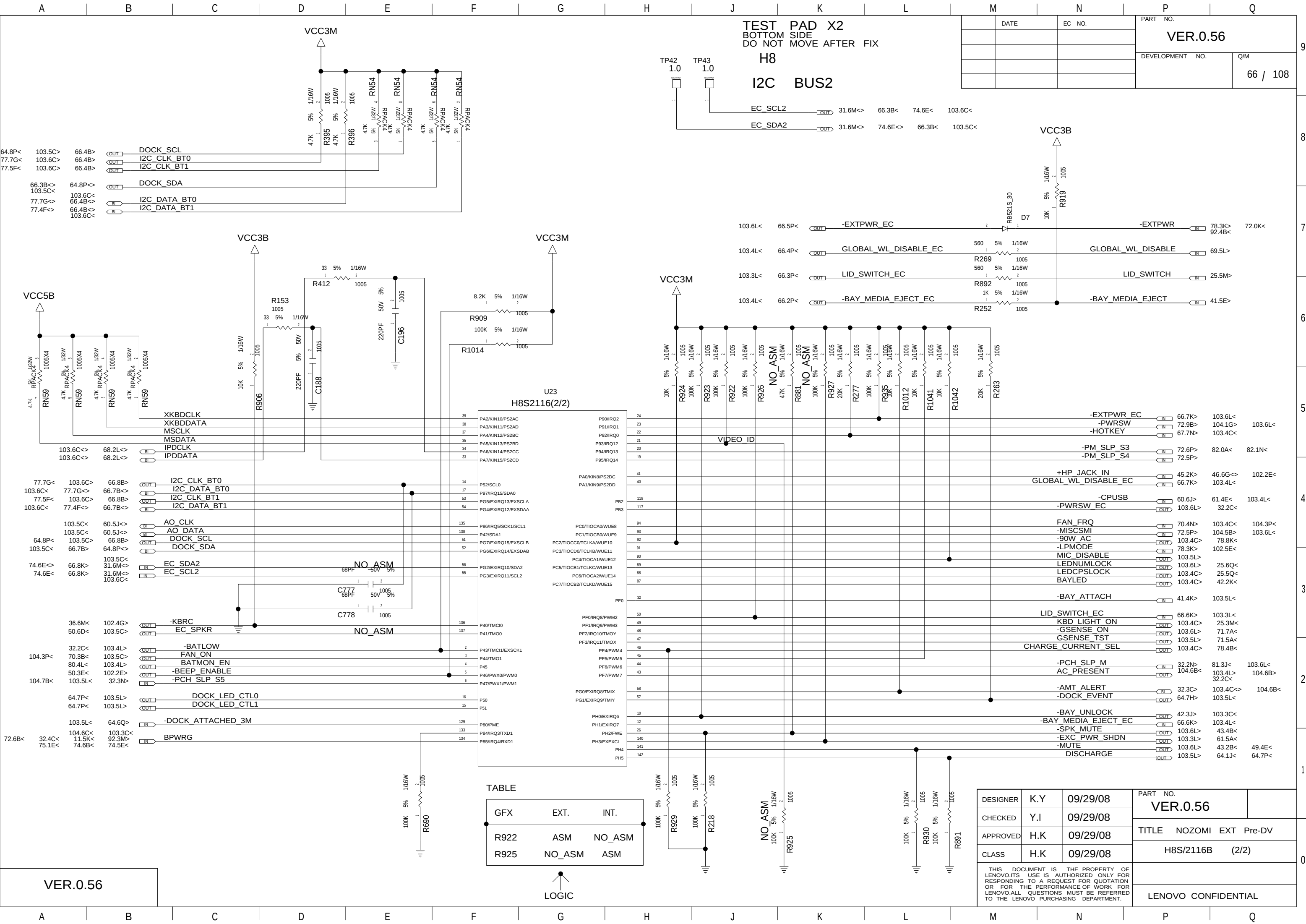
TABLE			
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1	-CS	7	
2	SO	8	
3	-WP	9	
4	GND	10	
5	SI	15	
6	SCLK	16	
7	-HOLD	1	
8	VCC	2	

VER.0.56

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	SPI FLASH	
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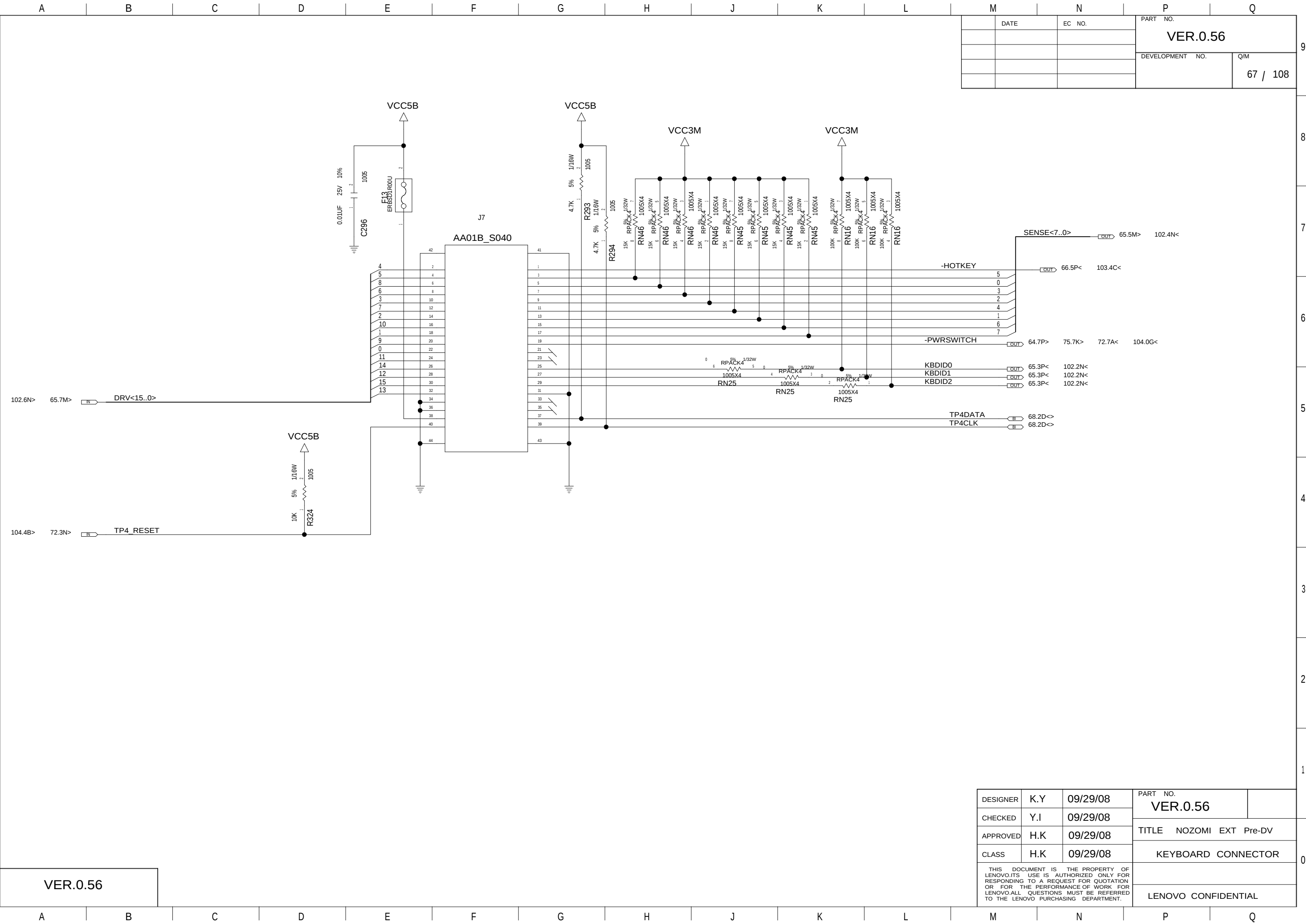


DESIGNER	K.Y	09/29/08	PART NO.	
CHECKED	Y.I	09/29/08	VER.0.56	
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	H8S/2116B (2/2)	
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TABLE		
GFX	EXT.	INT.
R922	ASM	NO_ASM
R925	NO_ASM	ASM

LOGIC

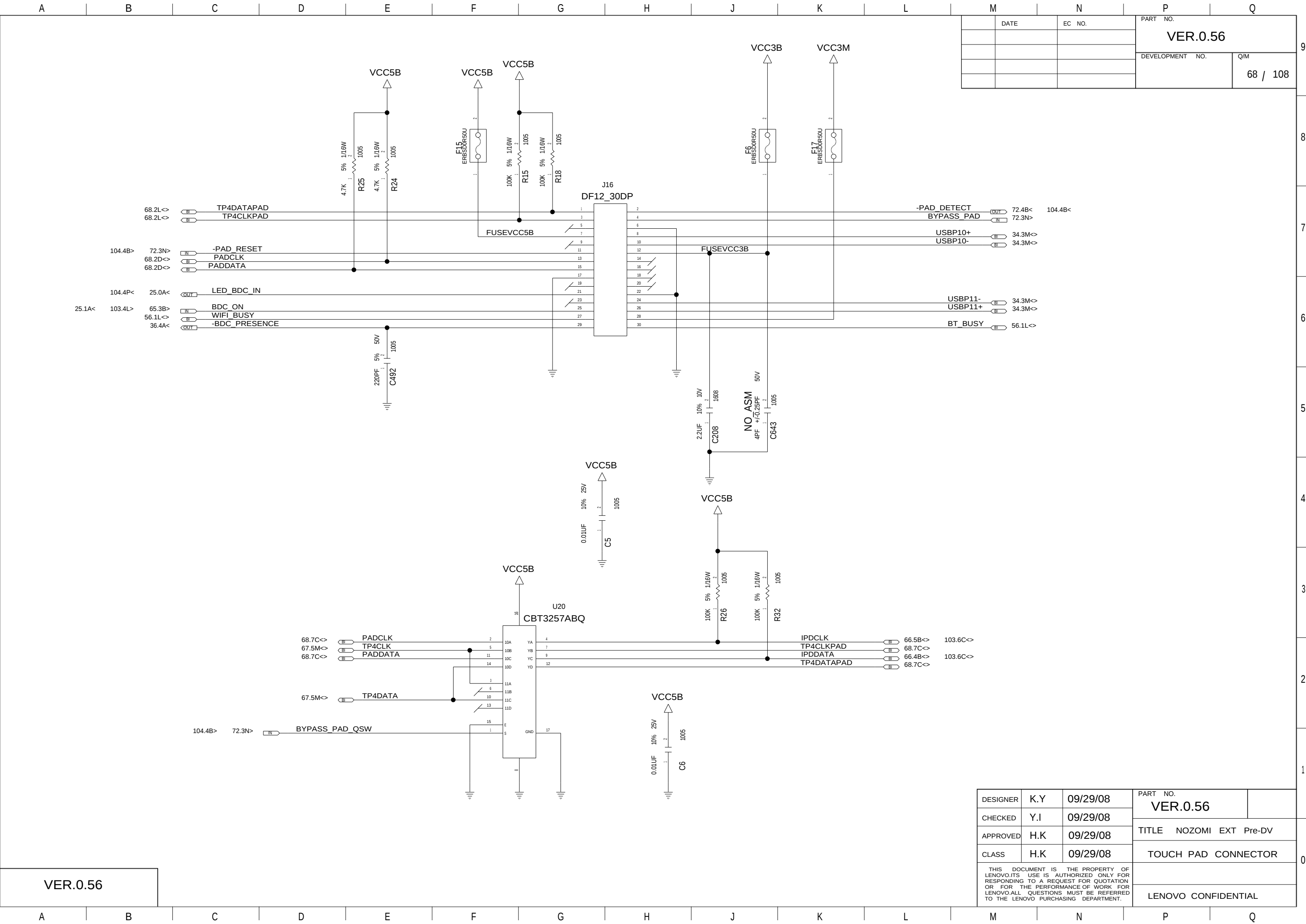
VER.0.56



		PART NO.	
		VER.0.56	
		DEVELOPMENT NO.	Q/M
		67 / 108	

VER.0.56

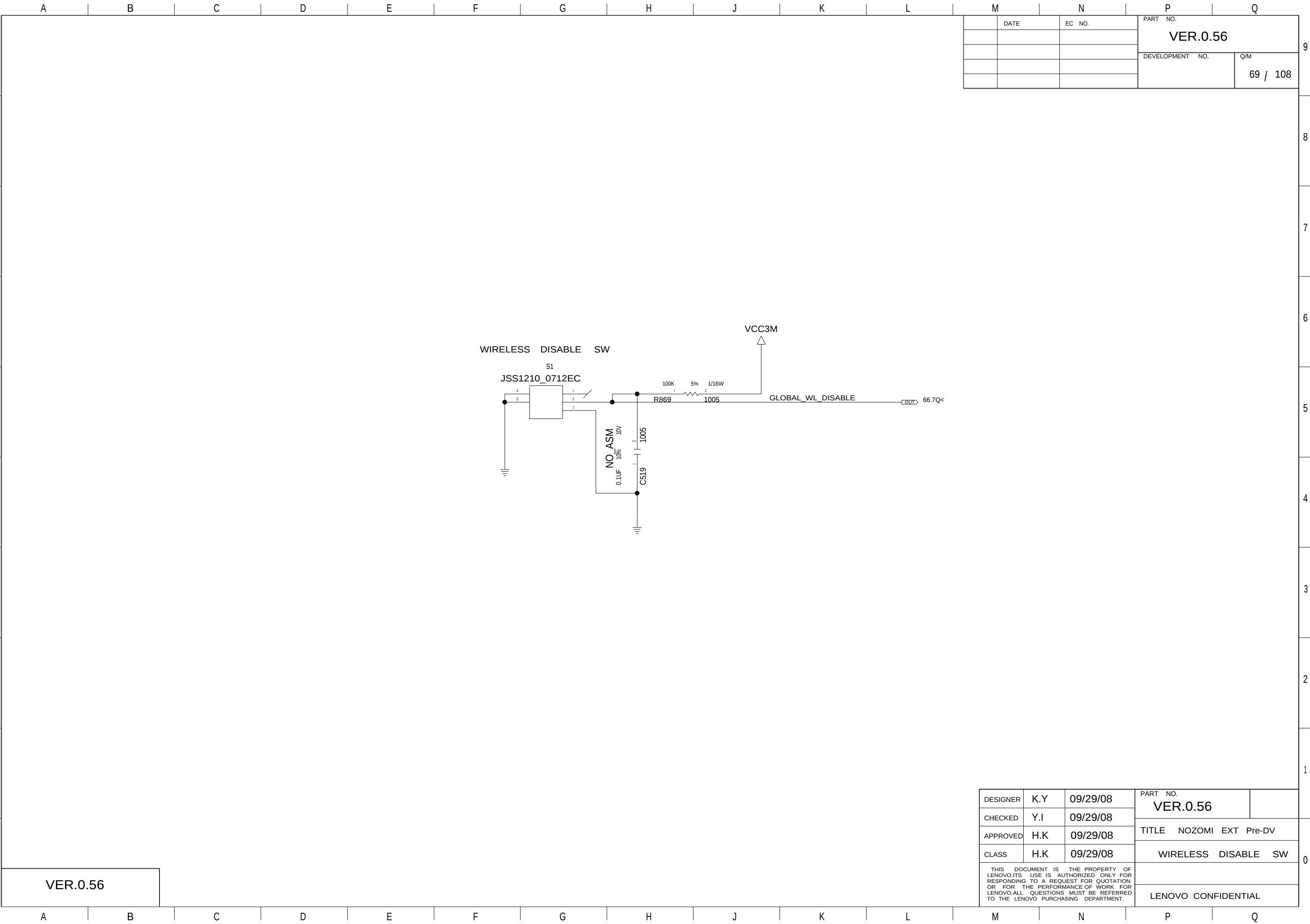
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CHECKED	Y.I	09/29/08	VER.0.56	
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	KEYBOARD CONNECTOR	
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			LENOVO CONFIDENTIAL	

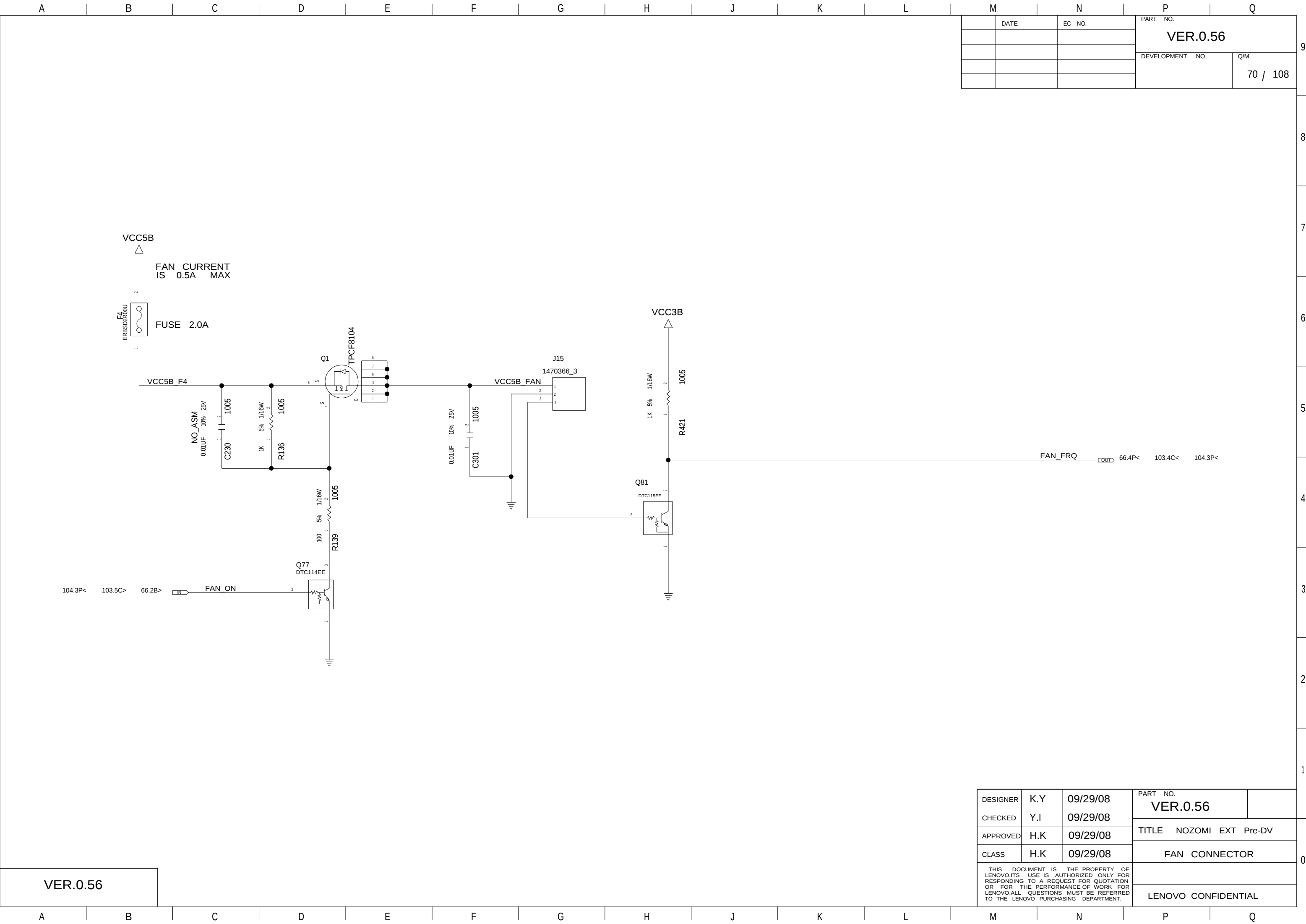


		PART NO.	
		VER.0.56	
		DEVELOPMENT NO.	Q/M
		68 / 108	

VER.0.56

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	TOUCH PAD CONNECTOR	
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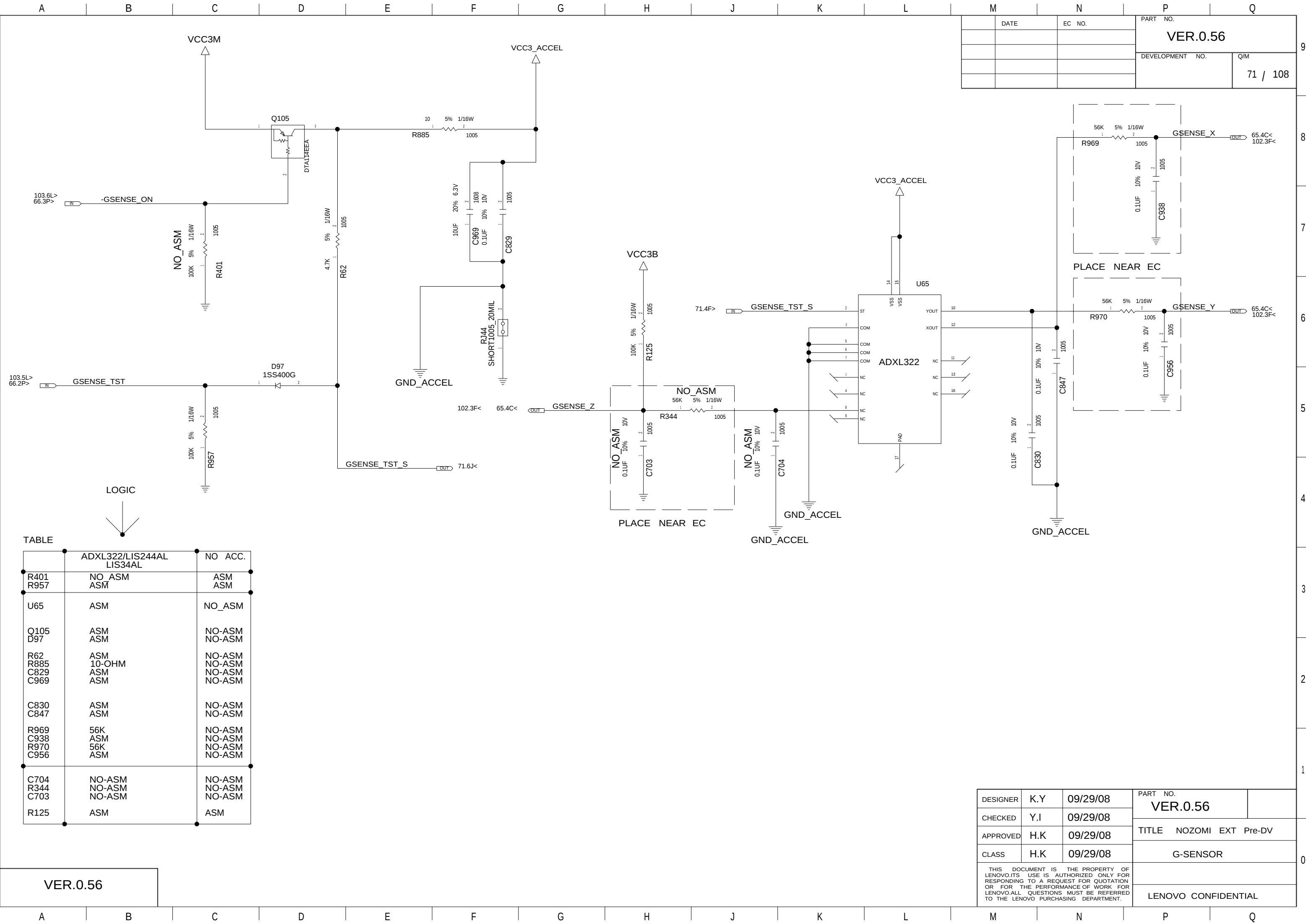




M		N		P		Q	
	DATE	EC NO.		PART NO.			
				VER.0.56			
				DEVELOPMENT NO.			Q/M
							70 / 108

VER.0.56

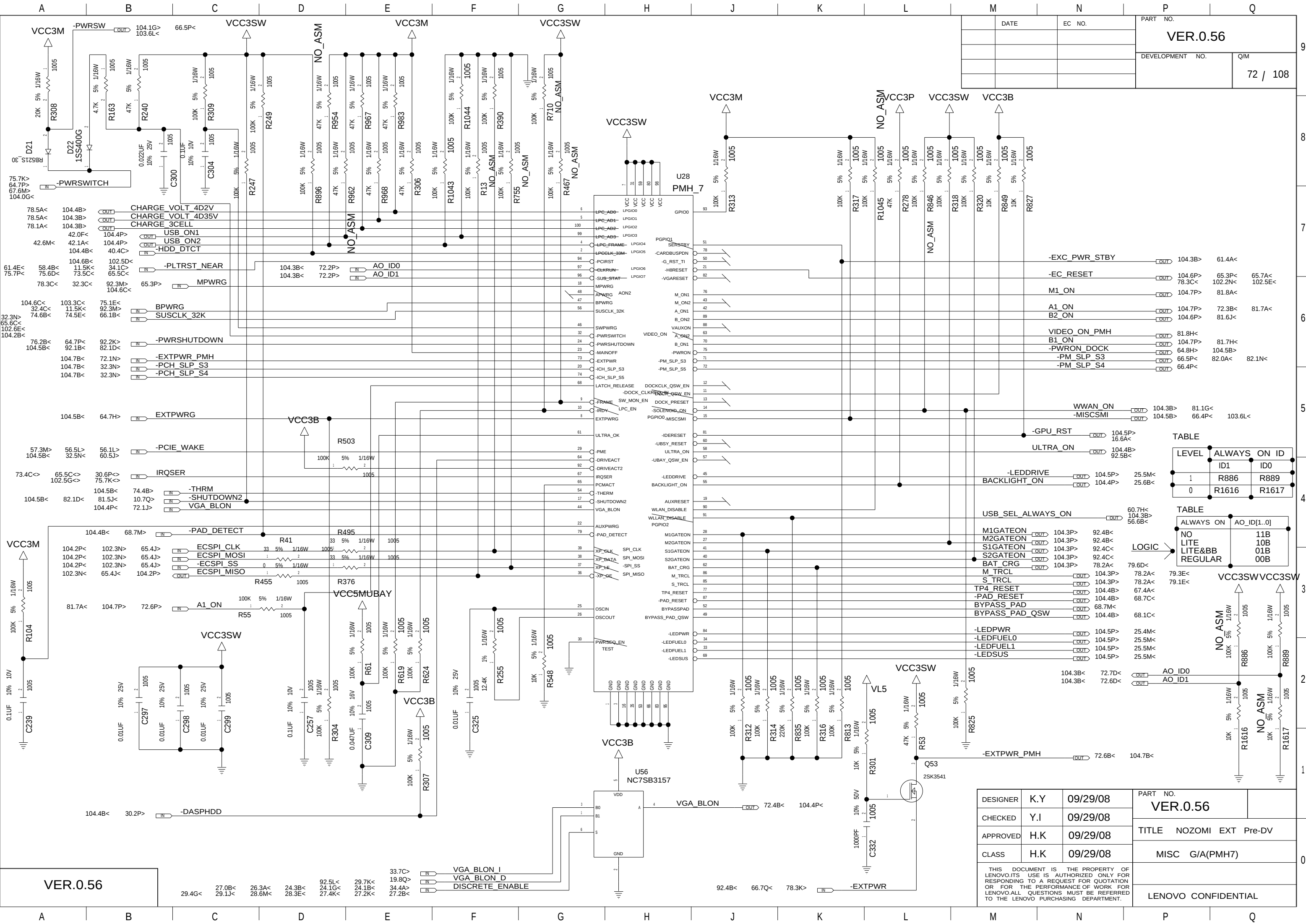
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APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV		
CLASS	H.K	09/29/08	FAN CONNECTOR		
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DATE		EC NO.	PART NO.	
			VER.0.56	
			DEVELOPMENT NO.	Q/M
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TABLE		
	ADXL322/LIS244AL LIS34AL	NO ACC.
R401 R957	NO_ASM ASM	ASM ASM
U65	ASM	NO_ASM
Q105 D97	ASM ASM	NO-ASM NO-ASM
R62 R885 C829 C969	ASM 10-OHM ASM ASM	NO-ASM NO-ASM NO-ASM NO-ASM
C830 C847	ASM ASM	NO-ASM NO-ASM
R969 C938 R970 C956	56K ASM 56K ASM	NO-ASM NO-ASM NO-ASM NO-ASM
C704 R344 C703	NO-ASM NO-ASM NO-ASM	NO-ASM NO-ASM NO-ASM
R125	ASM	ASM

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	G-SENSOR	
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DATE		EC NO.		PART NO.	
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				DEVELOPMENT NO.	
				Q/M	
				72 / 108	

78.5A<	104.4B>	CHARGE VOLT 4D2V	OUT	104.3B>	61.4A<
78.5A<	104.3B>	CHARGE VOLT 4D35V	OUT	104.6P>	65.3P<
78.1A<	104.3B>	CHARGE 3CELL	OUT	78.3C<	102.2N<
42.6M<	42.0F<	USB_ON1	OUT	104.7P>	81.8A<
42.1A<	104.4P>	USB_ON2	OUT	104.7P>	72.3B<
104.4B<	40.4C<	HDD_DTCT	IN	104.6P>	81.6J<
104.6B<	102.5D<	-PLTRST_NEAR	IN	104.7P>	81.8H<
61.4E<	58.4B<	11.5K<	34.1C<	104.7P>	81.7H<
75.7P>	75.6D<	65.5C<	73.5C<	64.8H>	104.5B>
78.3C<	32.3C<	92.3M>	104.6C<	66.5P<	82.0A<
		65.3P>	MPWRG	66.4P<	82.1N<
104.6C<	103.3C<	75.1E<	BPWRG		
32.3N>	32.4C<	92.3M>	SUSCLK_32K		
65.6C<	74.6B<	66.1B<			
76.2B<	64.7P<	92.2K>	-PWRSHUTDOWN		
104.5B<	92.1B<	82.1D<			
104.7B<	72.1N>	-EXTPWR_PMH	IN		
104.7B<	32.3N>	-PCH_SLP_S3	IN		
104.7B<	32.3N>	-PCH_SLP_S4	IN		

104.5B<	64.7H>	EXTPWRG	IN	104.3B>	81.1G<
				104.5B>	66.4P<
					103.6L<
57.3M>	56.5L>	56.1L>	-PCIE_WAKE		
104.5B<	32.5N<	60.5J>			
73.4C<	65.5C<	30.6P<	IRQSER		
102.5G<	75.7K<	75.7K<			
104.5B<	82.1D<	104.5B<	-THRM		
		81.5J<	-SHUTDOWN2		
		10.7Q>	VGA_BLO		
		72.1J>			

104.4B<	68.7M>	-PAD_DETECT	IN	104.3B>	81.1G<
				104.5B>	66.4P<
					103.6L<
104.2P<	102.3N>	65.4J>	ECSPi_CLK		
104.2P<	102.3N>	65.4J>	ECSPi_MOSI		
104.2P<	102.3N>	65.4J>	ECSPi_SS		
102.3N<	65.4J>	104.2P>	ECSPi_MISO		
81.7A<	104.7P>	72.6P>	A1_ON		

104.4B<	30.2P>	-DASPHDD	IN	104.3B>	81.1G<
				104.5B>	66.4P<
					103.6L<
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104.2P<	102.3N>	65.4J>	ECSPi_MOSI		
104.2P<	102.3N>	65.4J>	ECSPi_SS		
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81.7A<	104.7P>	72.6P>	A1_ON		

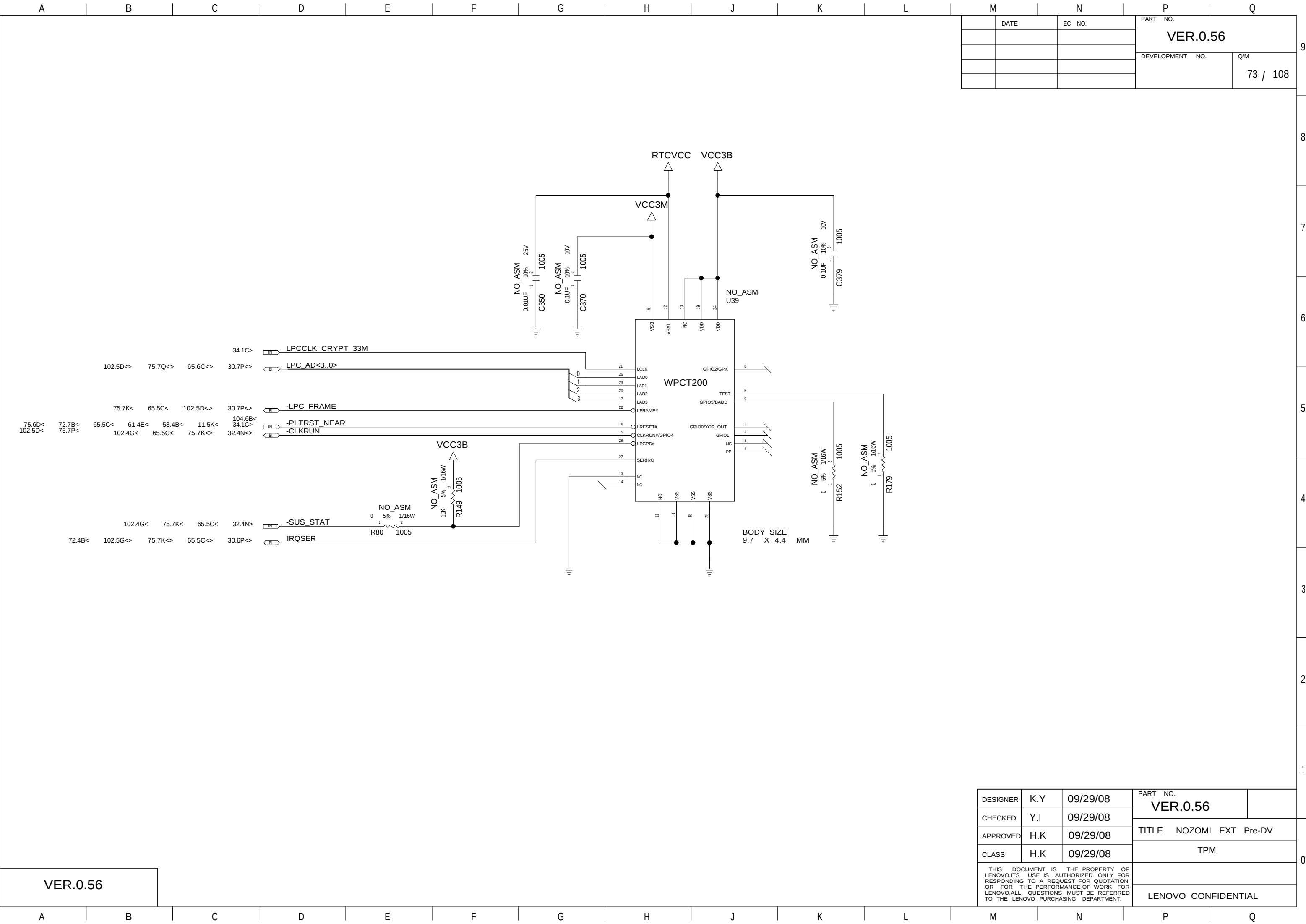
33.7C>	19.8Q>	VGA_BLO	IN	104.3B>	81.1G<
				104.5B>	66.4P<
					103.6L<
29.4G<	27.0B<	26.3A<	24.3B<	92.5L<	29.7K<
	29.1J<	28.6M<	28.3E<	24.1G<	24.1B<
				27.4K<	27.2B<

LEVEL	ALWAYS ON	ID
	ID1	ID0
1	R886	R889
0	R1616	R1617

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

LOGIC

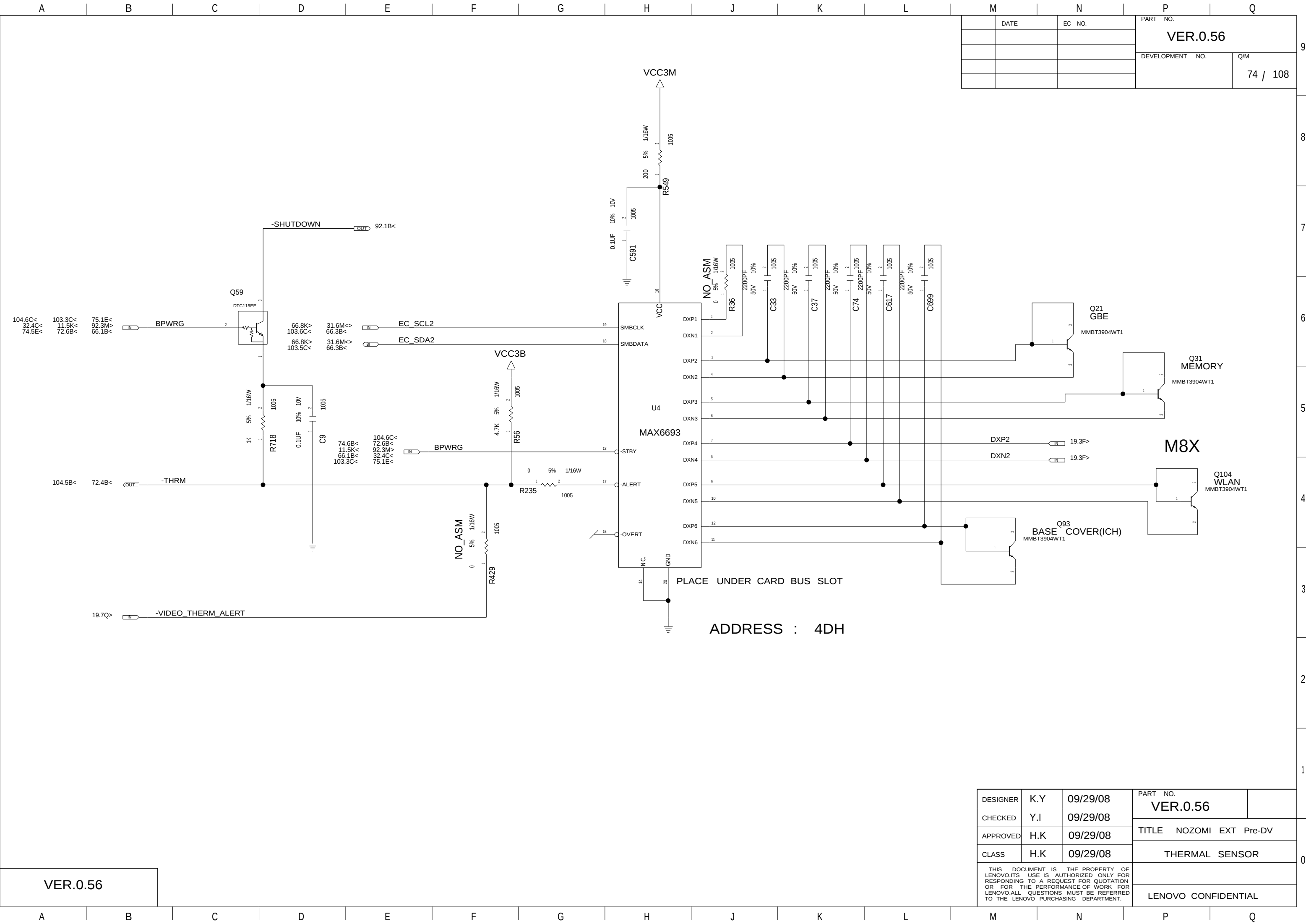
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CHECKED	Y.I	09/29/08	VER.0.56	
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	MISC G/A(PMH7)	
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		M		N		P		Q	
		DATE		EC NO.		PART NO.			
						VER.0.56			
						DEVELOPMENT NO.		Q/M	
								73 / 108	

VER.0.56

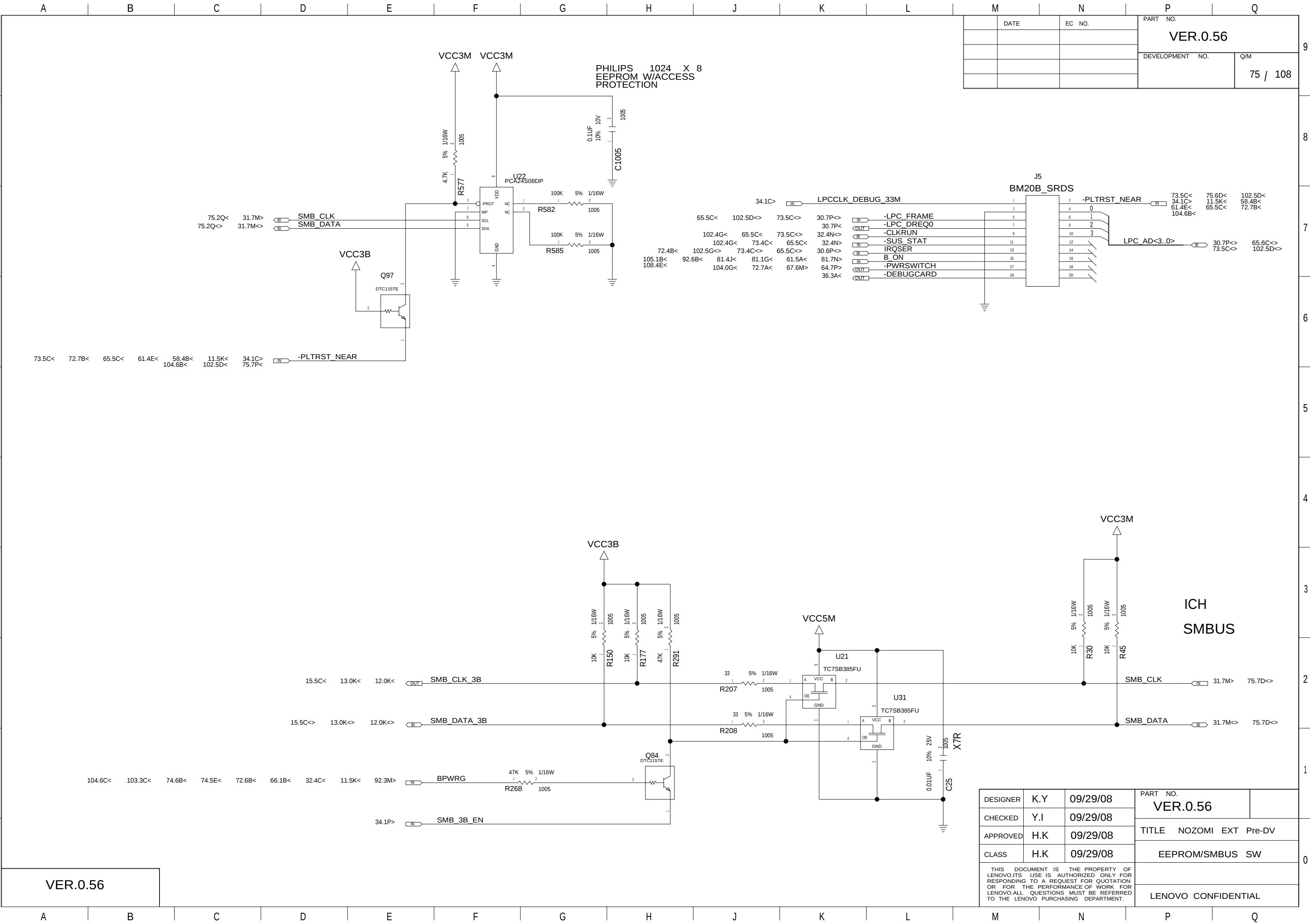
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CLASS	H.K	09/29/08	TPM		
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			LENOVO CONFIDENTIAL		

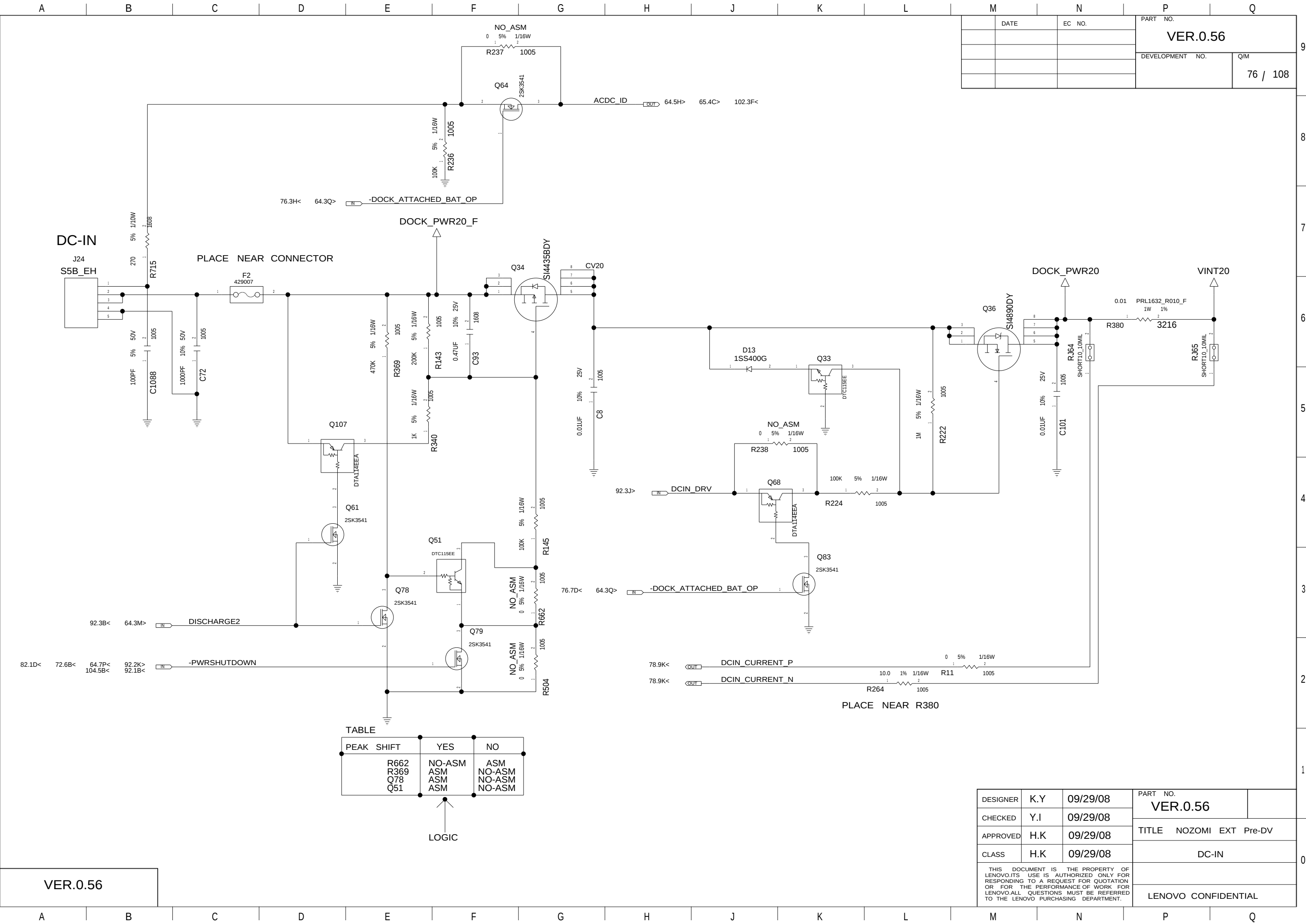


PART NO.		VER.0.56	
DEVELOPMENT NO.		Q/M	
		74 / 108	

VER.0.56

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	THERMAL SENSOR	
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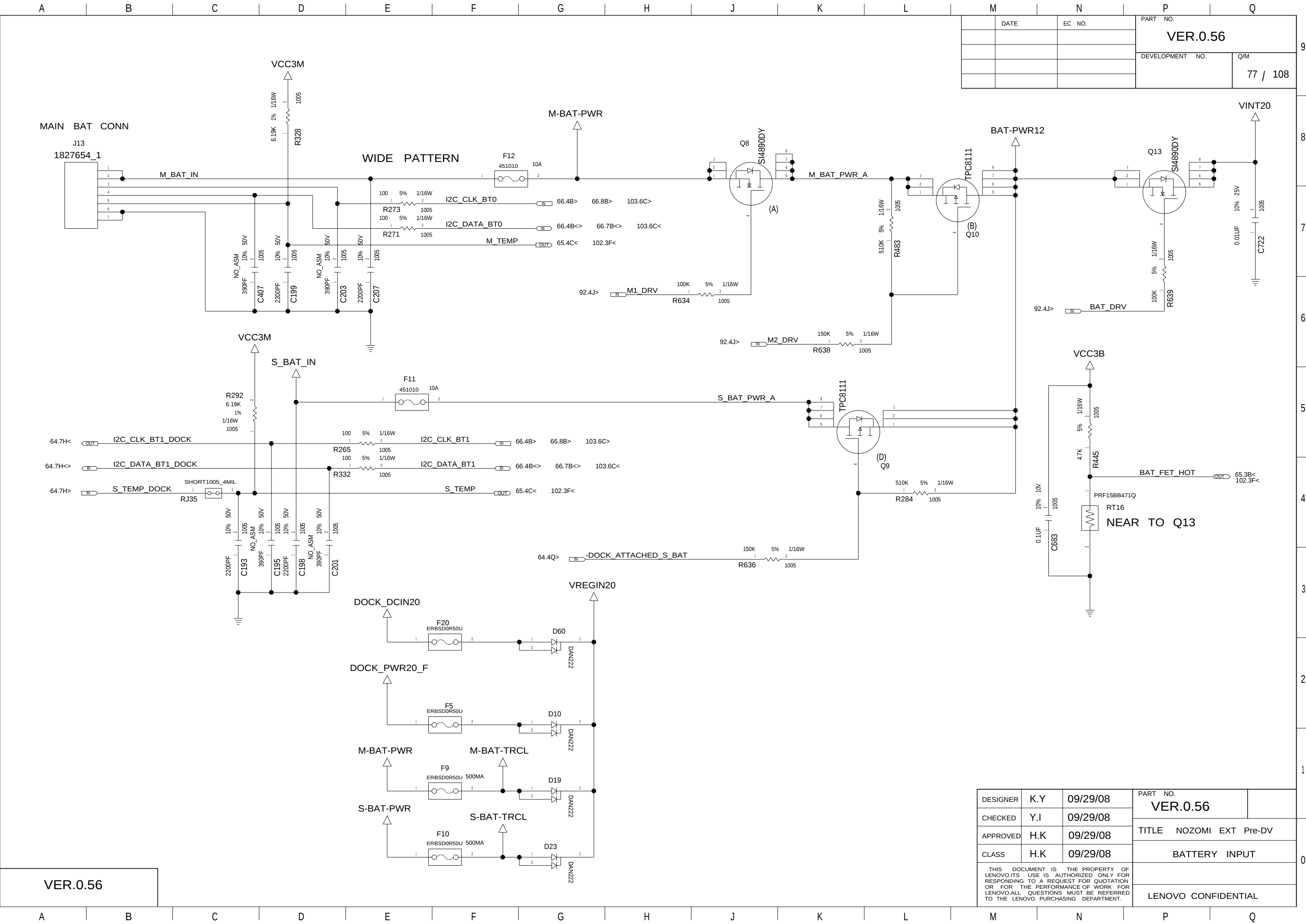


DATE		EC NO.	PART NO.	
			VER.0.56	
			DEVELOPMENT NO.	
			Q/M	
			76 / 108	

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

LOGIC

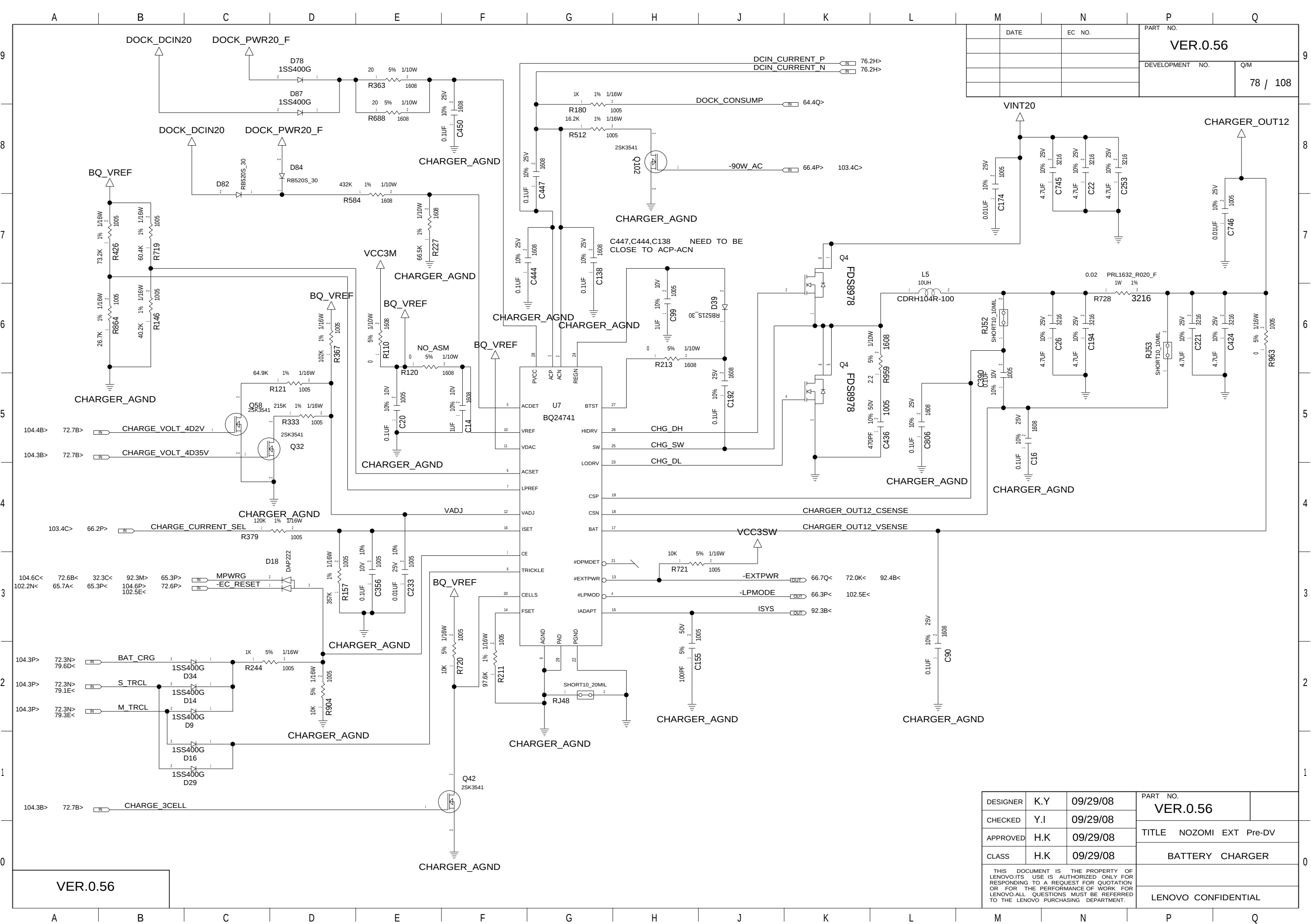
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CLASS	H.K	09/29/08	DC-IN	
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			LENOVO CONFIDENTIAL	

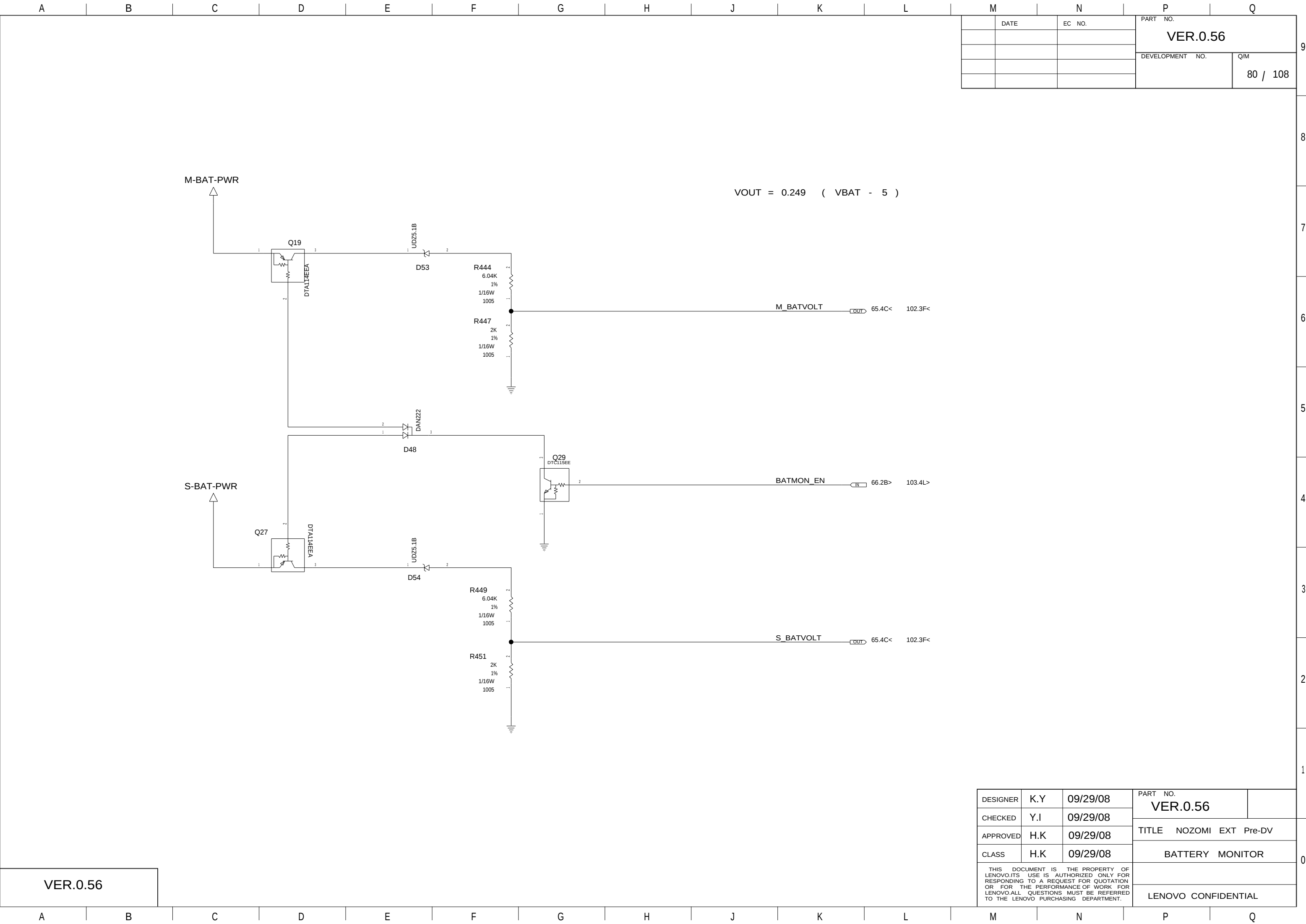


DATE		EC NO.	PART NO.	
			VER.0.56	
			DEVELOPMENT NO.	Q/M
				77 / 108

VER.0.56

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	BATTERY INPUT	
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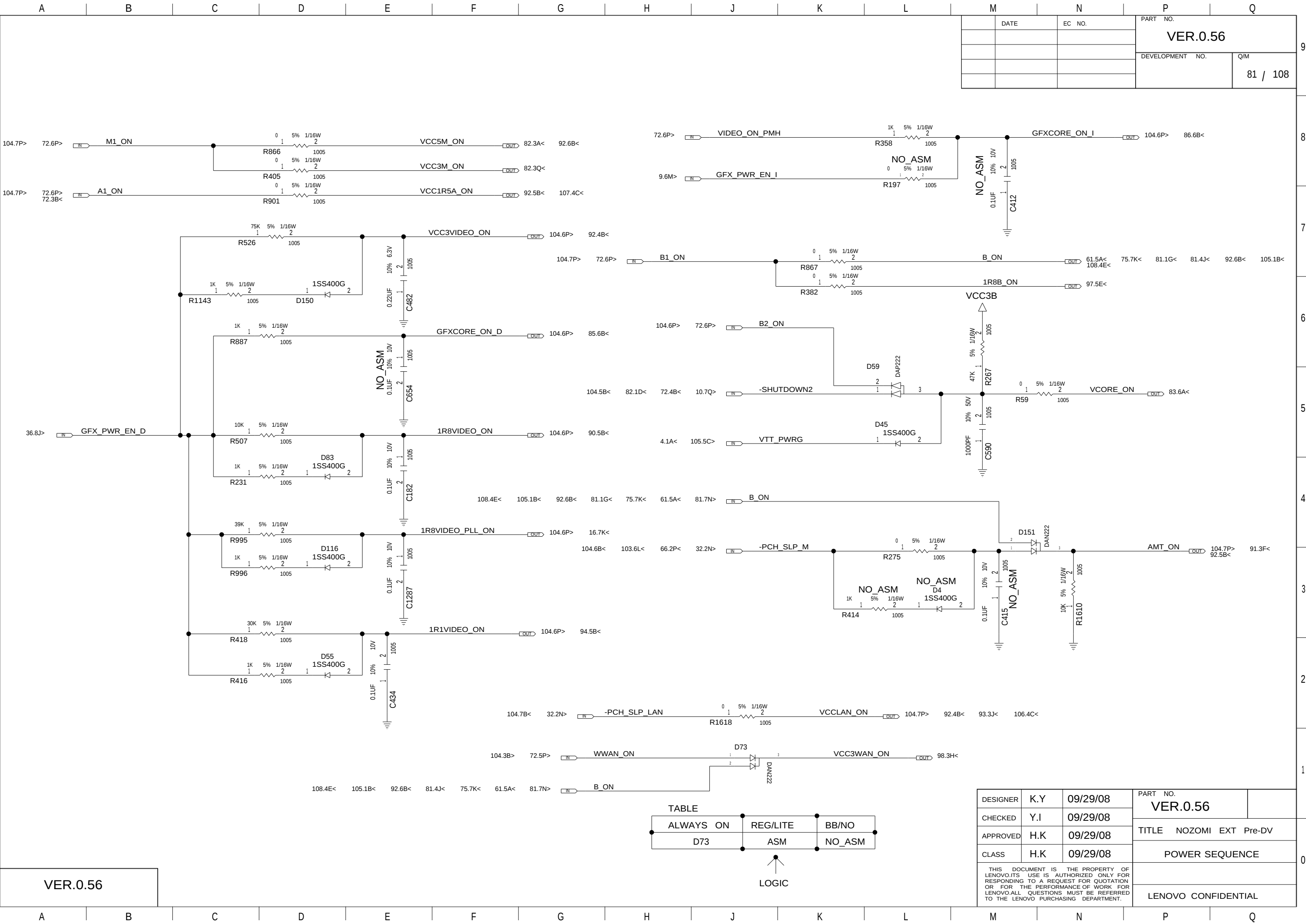


$V_{OUT} = 0.249 \quad (\quad V_{BAT} - 5 \quad)$

VER.0.56

		M		N		P		Q	
		DATE		EC NO.		PART NO.			
						VER.0.56			
						DEVELOPMENT NO.		Q/M	
								80 / 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	BATTERY MONITOR		
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TABLE

ALWAYS ON	REG/LITE	BB/NO
D73	ASM	NO_ASM

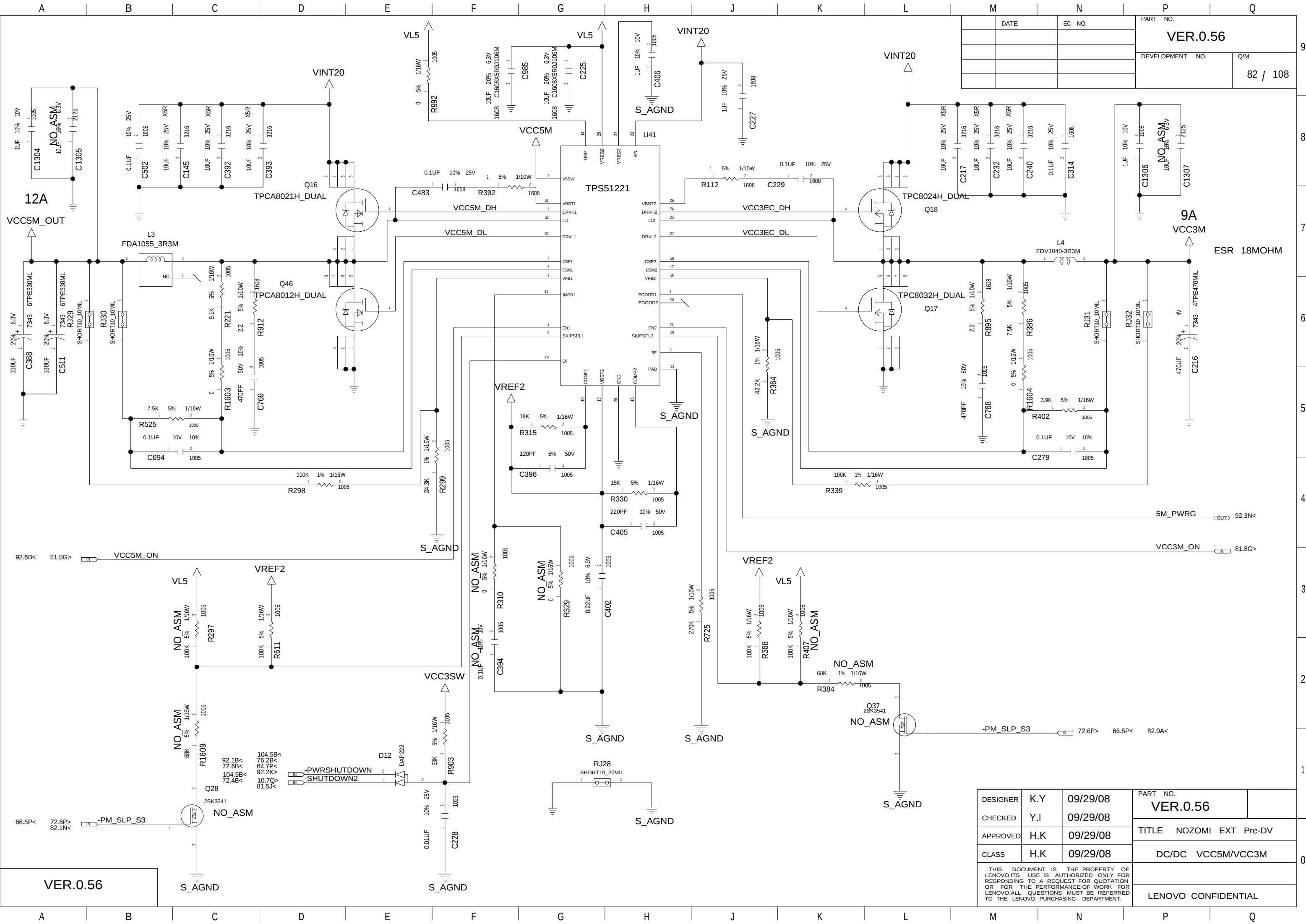
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VER.0.56

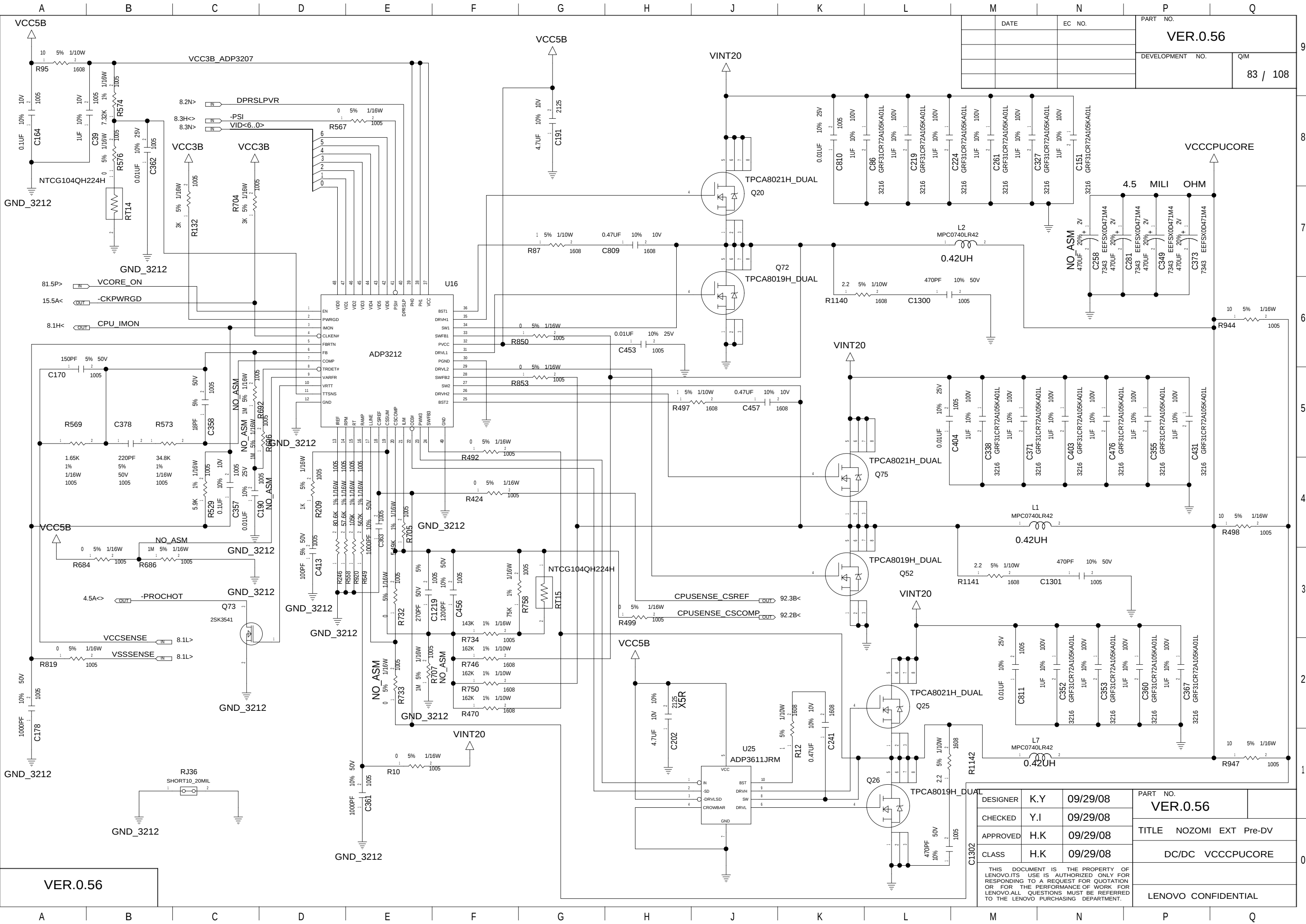
TITLE NOZOMI EXT Pre-DV

POWER SEQUENCE

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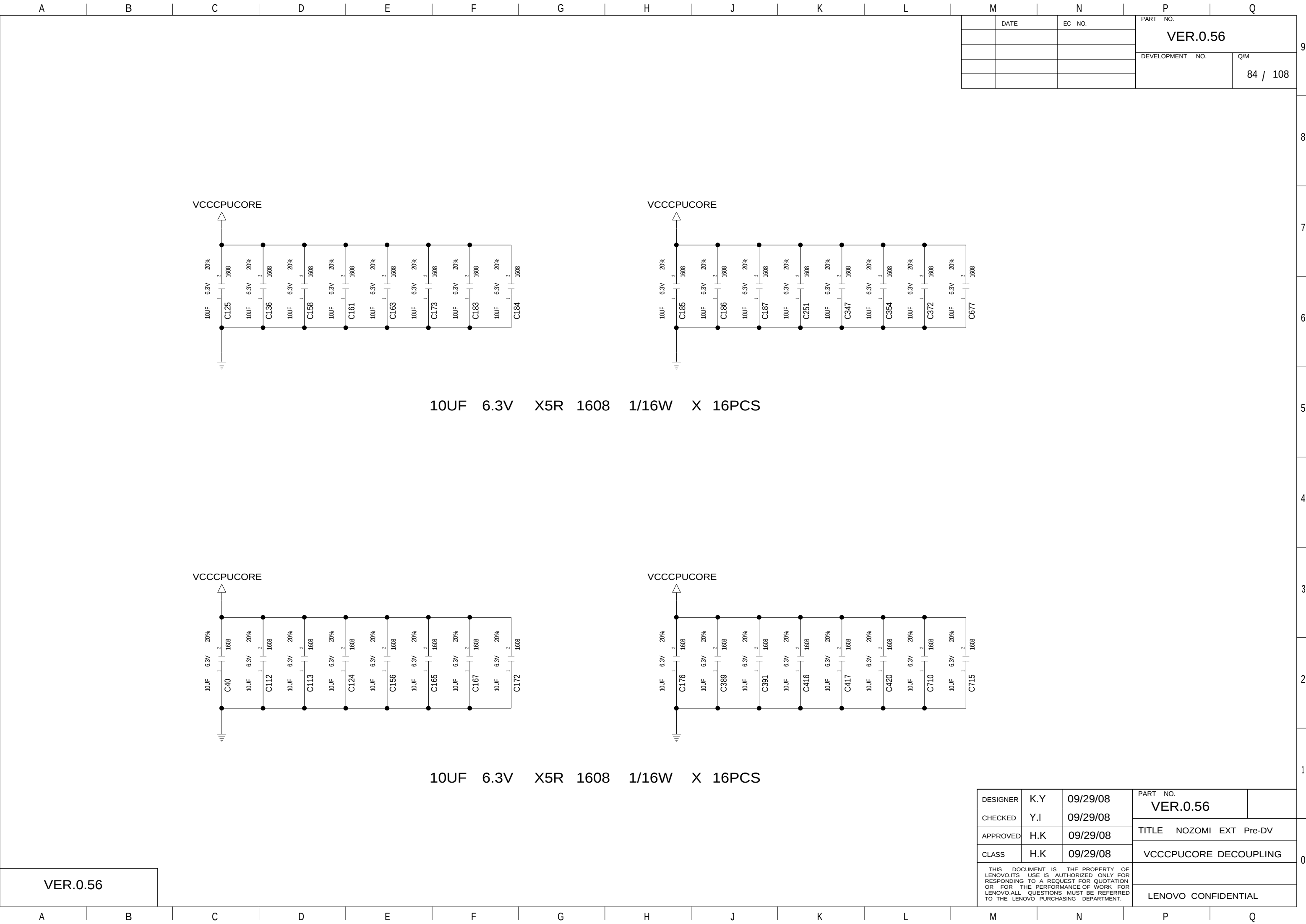
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CHECKED	Y.I	09/29/08	VER.0.56	
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	DC/DC VCC5M/VCC3M	
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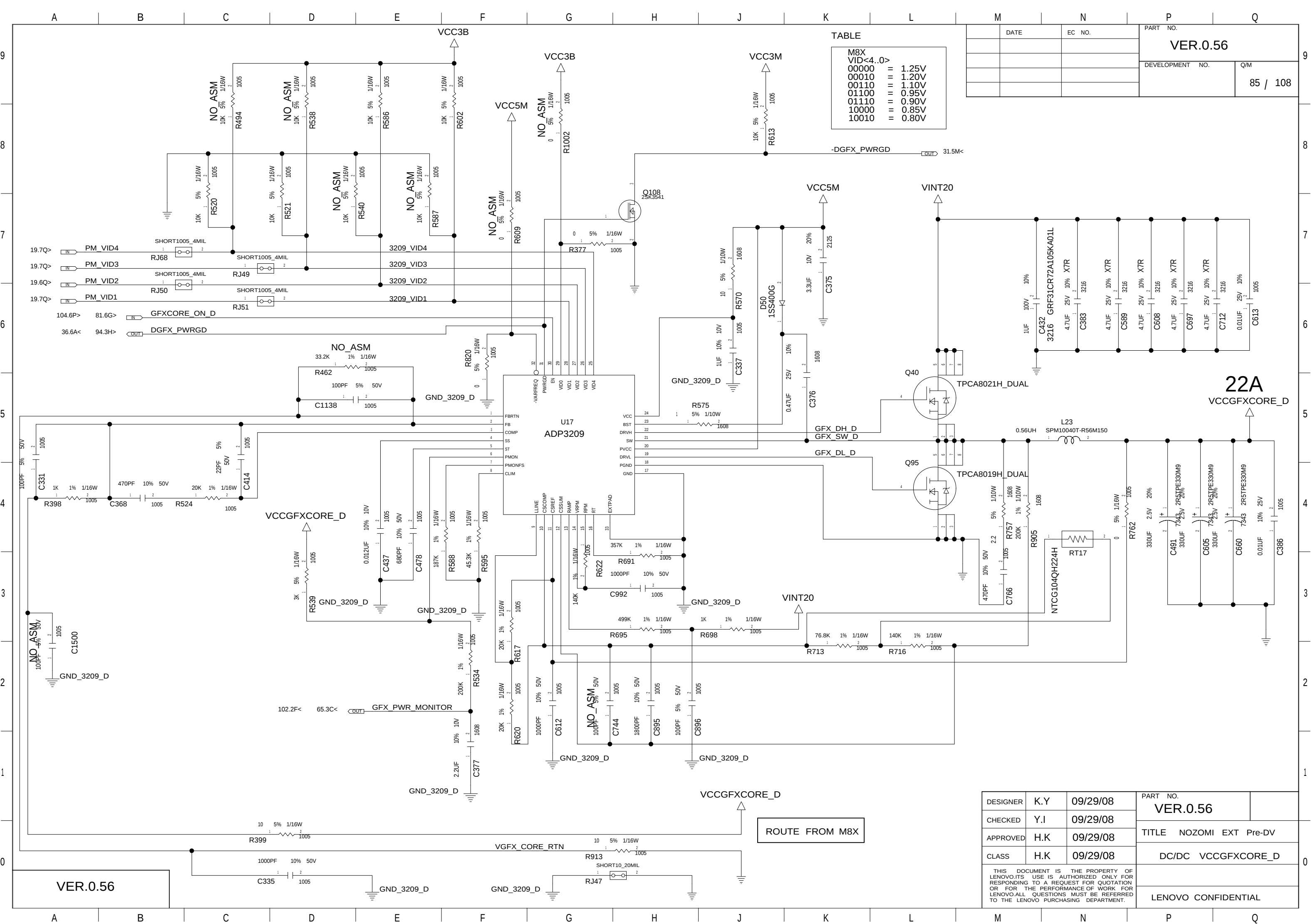


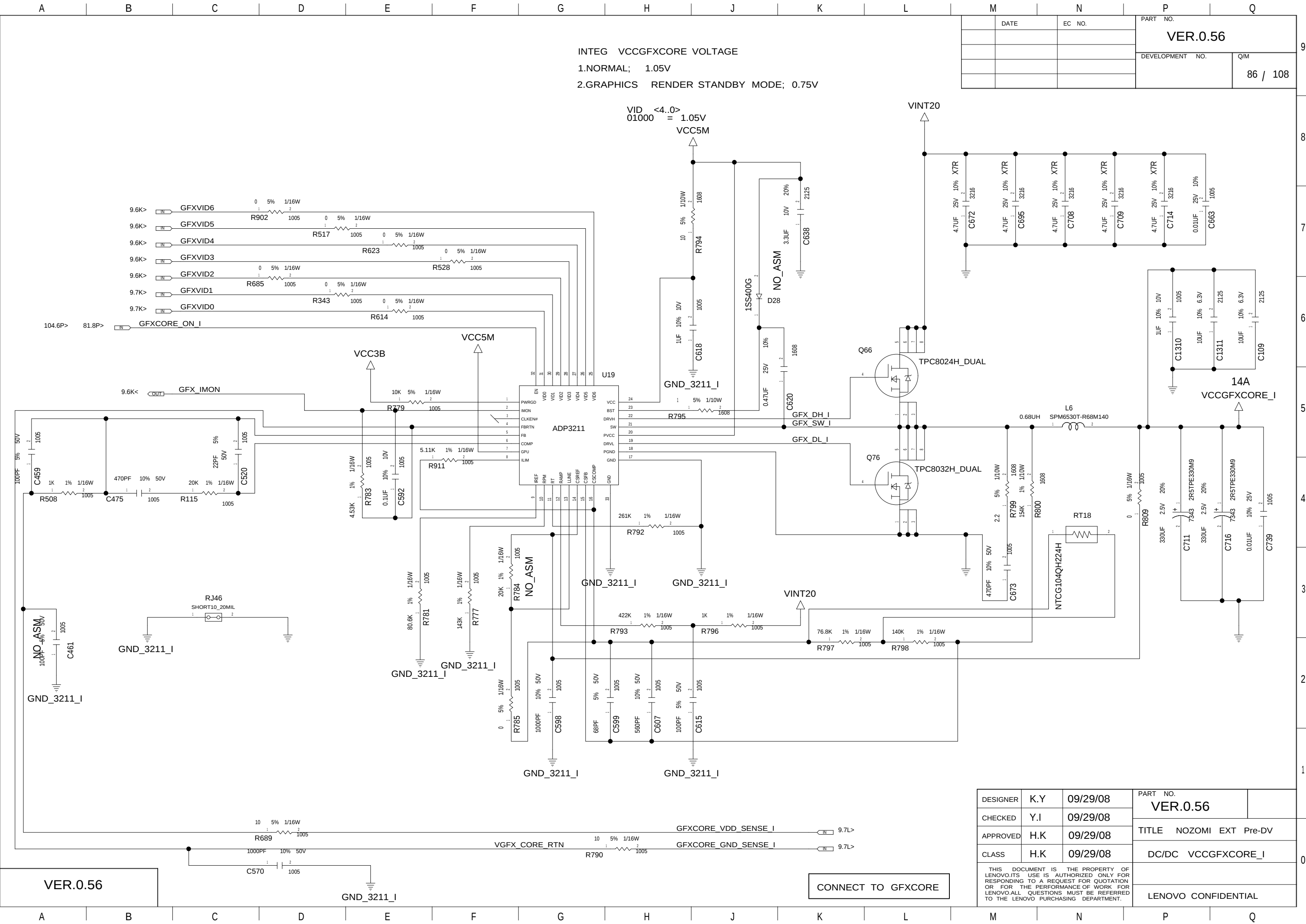
VER.0.56

DATE		EC NO.		PART NO.	
				VER.0.56	
DEVELOPMENT NO.		Q/M		83 / 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	DC/DC VCCCPUCORE	
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INTEG VCCGFXCORE VOLTAGE
1.NORMAL; 1.05V
2.GRAPHICS RENDER STANDBY MODE; 0.75V

DATE		EC NO.	PART NO.	
			VER.0.56	
			DEVELOPMENT NO.	Q/M
				86 / 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	DC/DC VCCGFXCORE_I	
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CONNECT TO GFXCORE

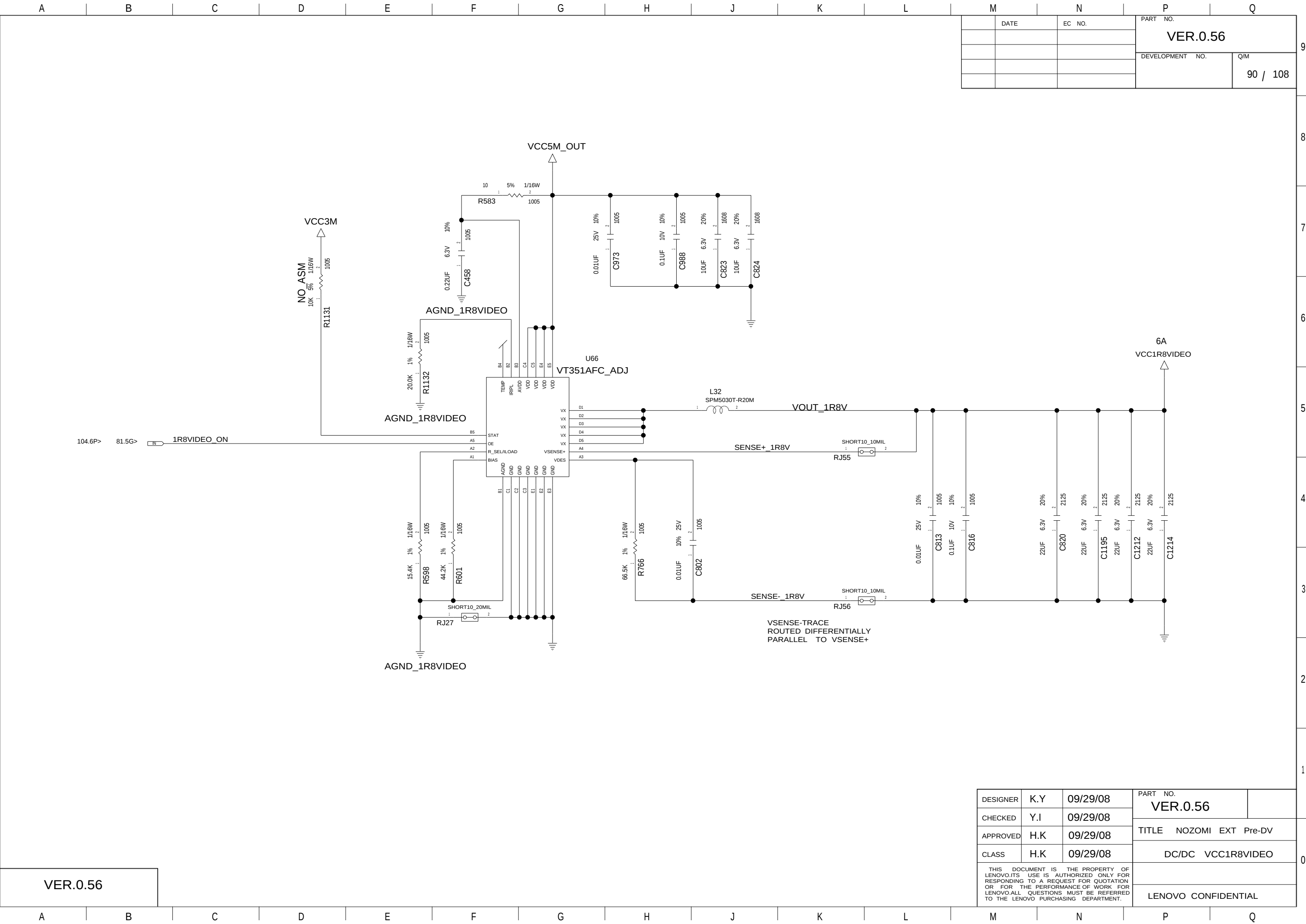
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																							DATE	EC NO.	PART NO.		VER.0.56		87 / 108																				
																									DEVELOPMENT NO.	Q/M																							
VER.0.56																																																	

[illegible]

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q			
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															89 / 108		
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LENOVO CONFIDENTIAL																	
A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q			

VER.0.56

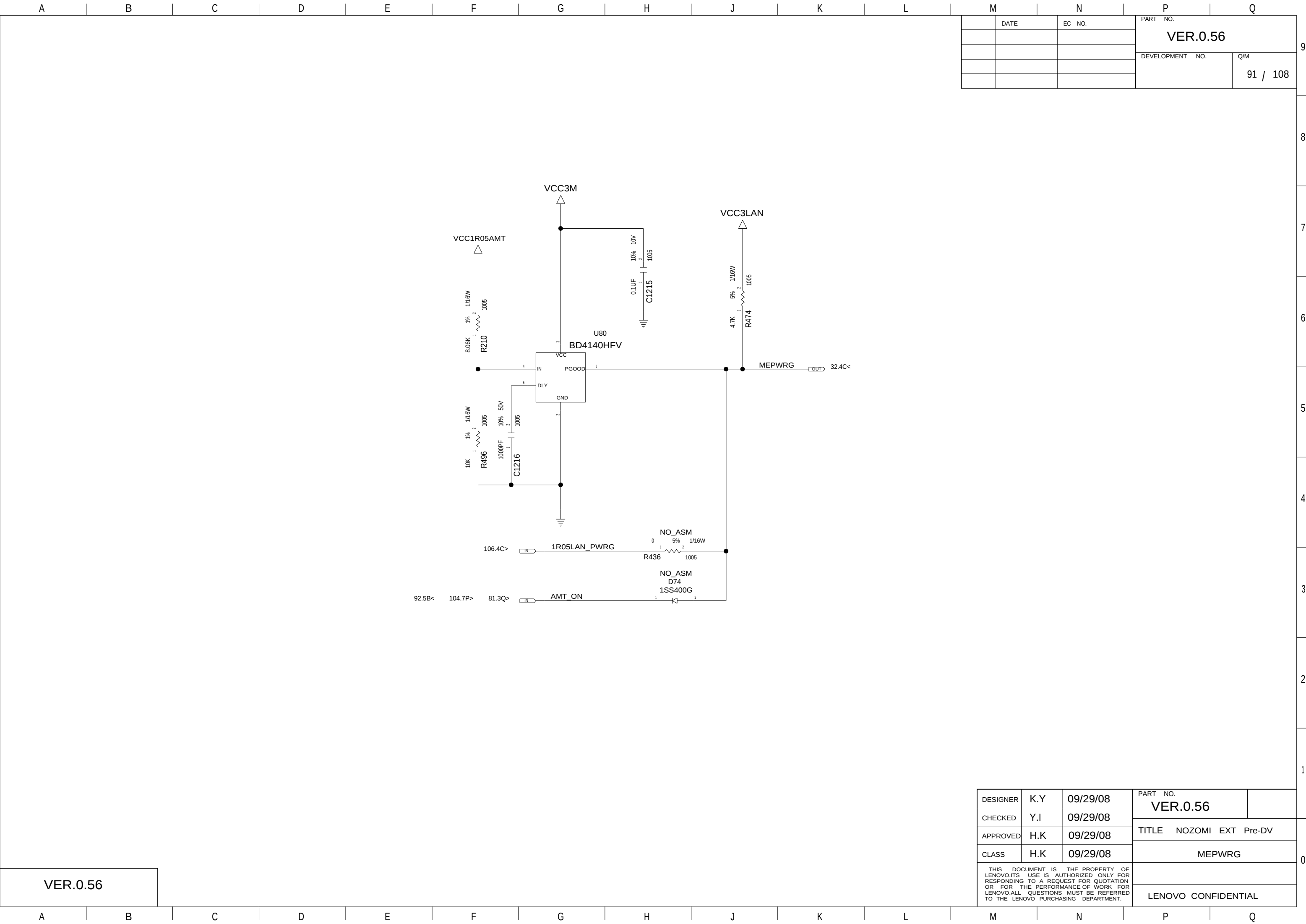
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VER.0.56

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	DC/DC VCC1R8VIDEO	
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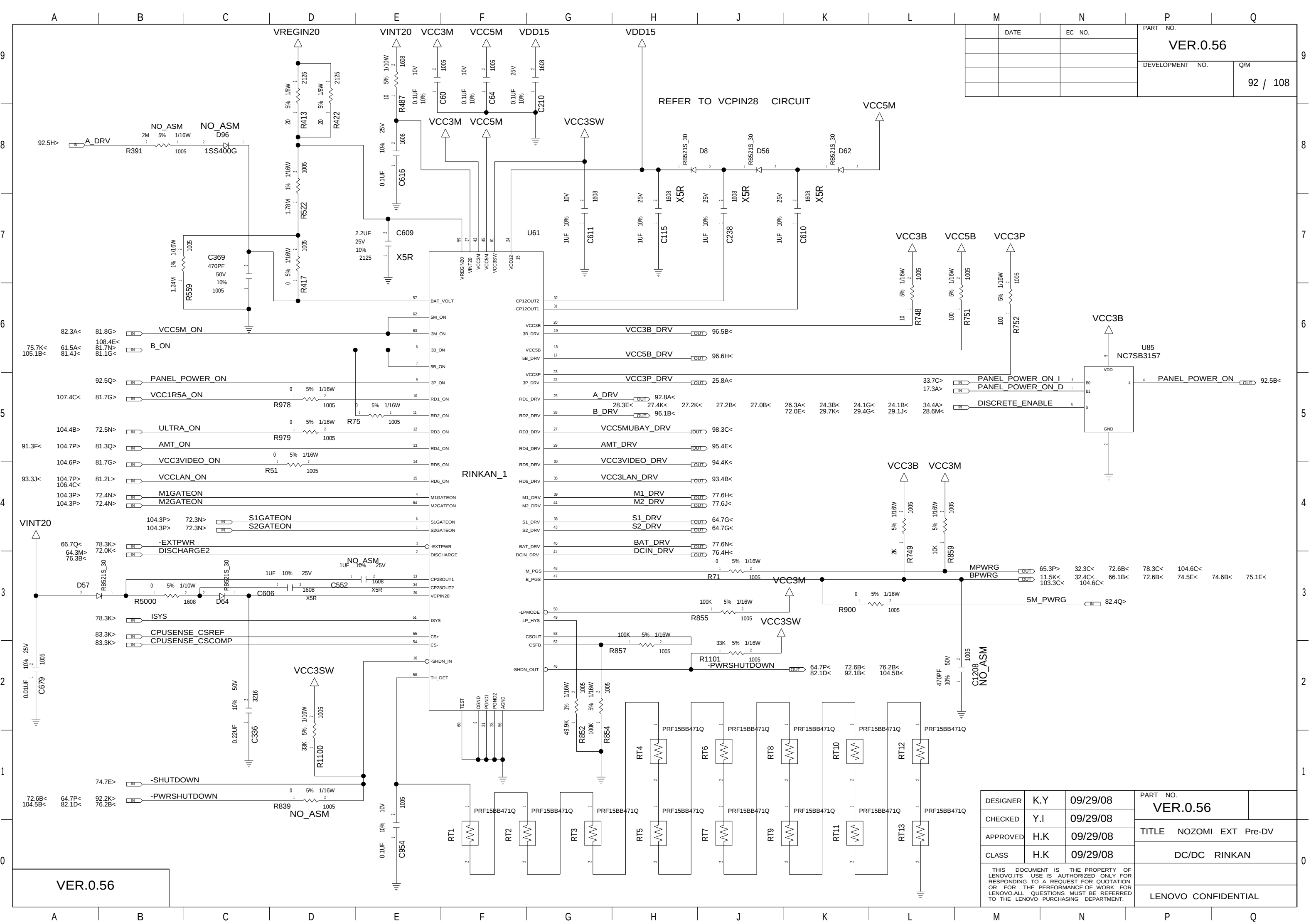
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			VER.0.56	
			DEVELOPMENT NO.	
			Q/M	
			90 / 108	

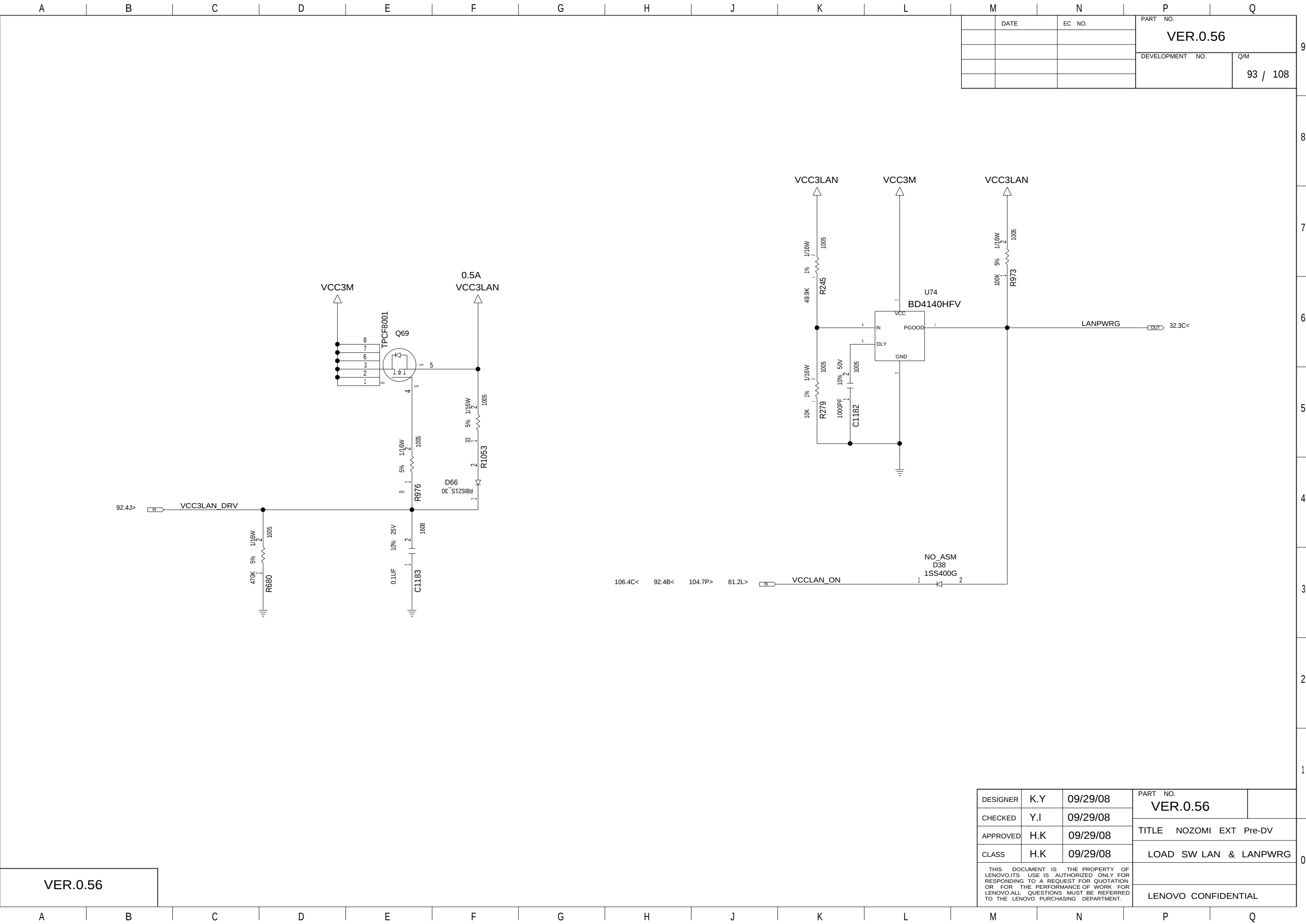


M		N		P		Q	
		DATE		EC NO.		PART NO.	
						VER.0.56	
						DEVELOPMENT NO.	
						Q/M	
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DESIGNER	K.Y	09/29/08	PART NO.		
CHECKED	Y.I	09/29/08	VER.0.56		
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV		
CLASS	H.K	09/29/08	MEPWRG		
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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

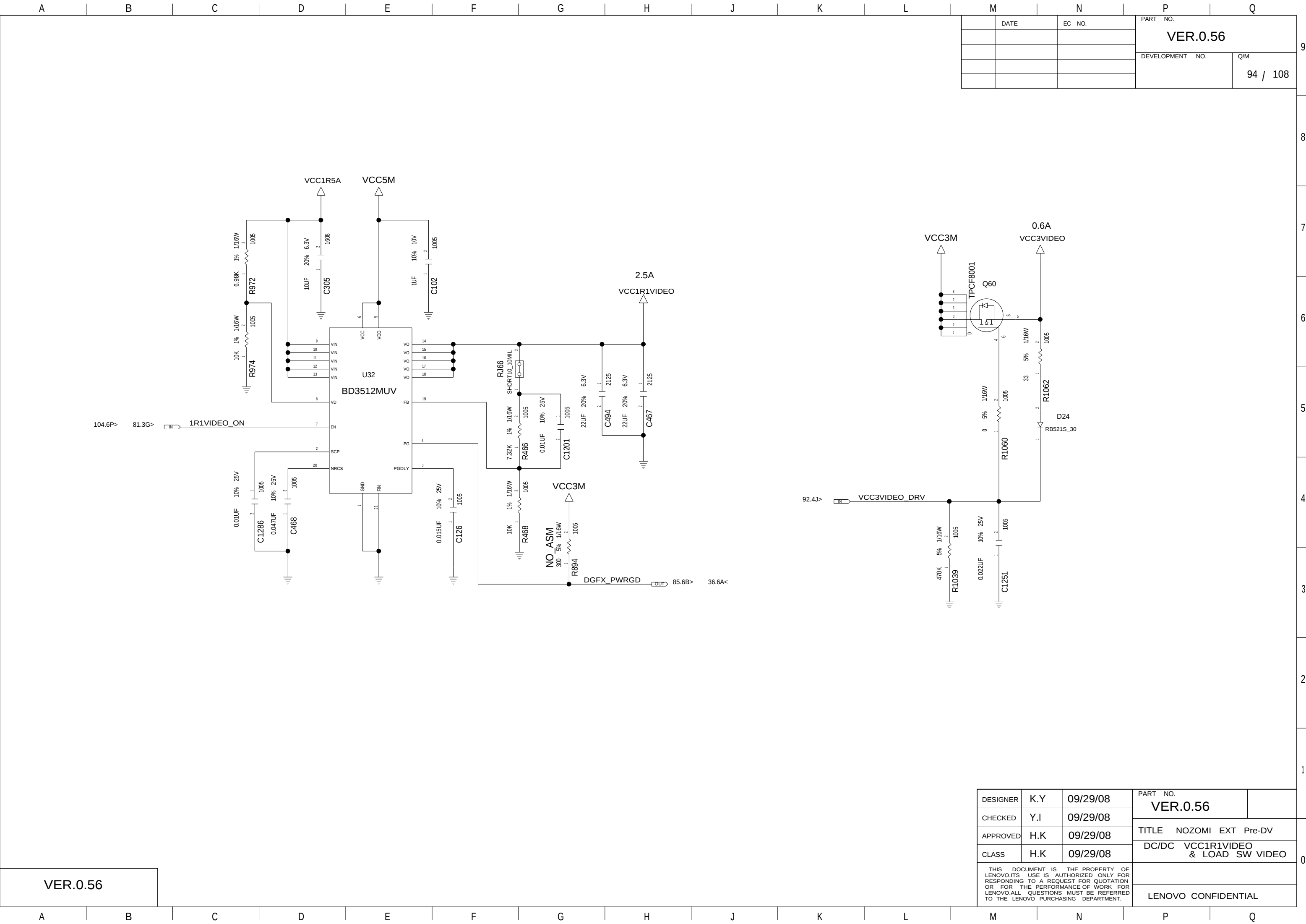




VER.0.56

VER.0.56

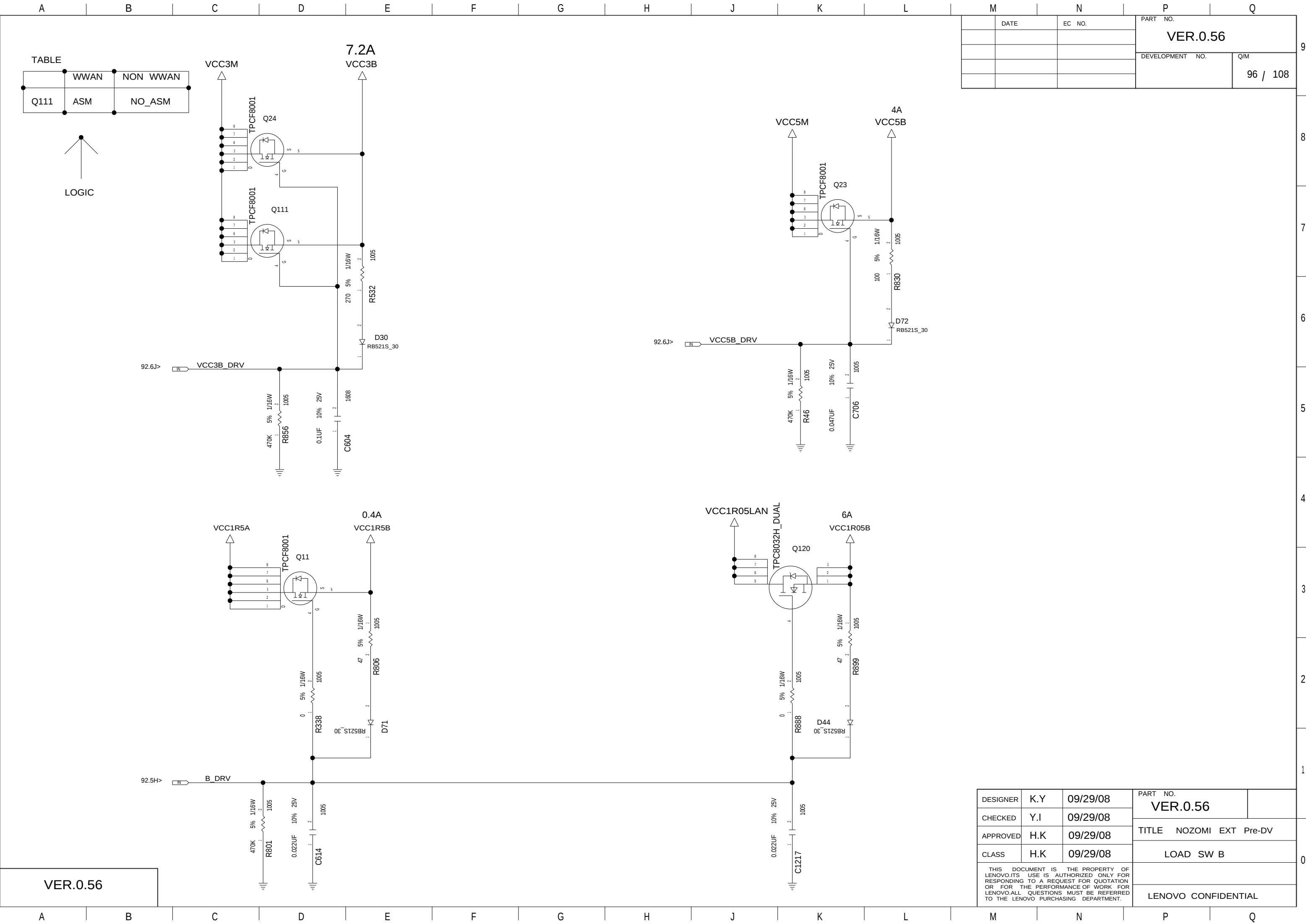
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		PART NO.		VER.0.56	
DATE		EC NO.			
DEVELOPMENT NO.		NO.		Q/M	
				94 / 108	

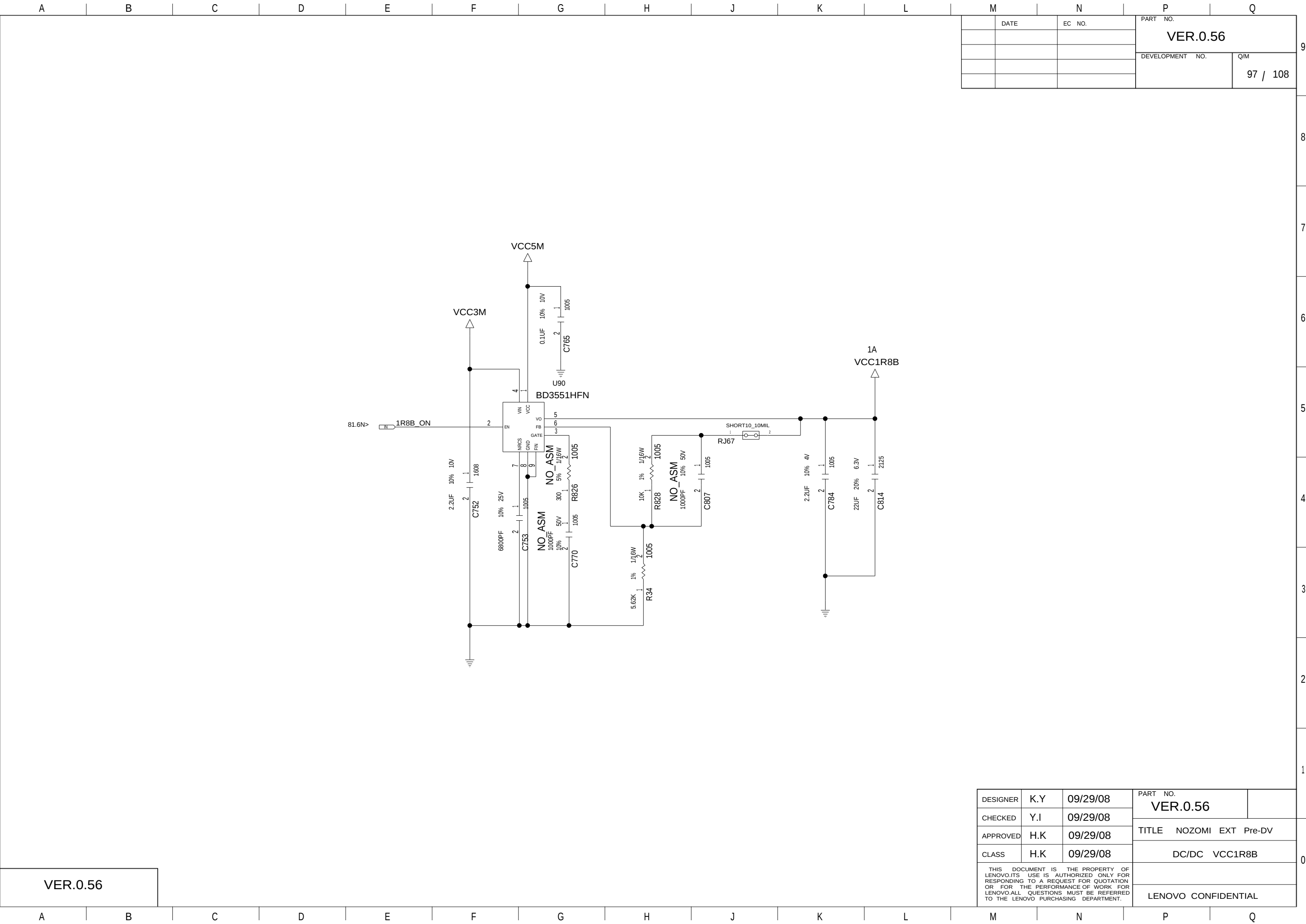
VER.0.56

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	DC/DC VCC1R1VIDEO & LOAD SW VIDEO			
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			LENOVO CONFIDENTIAL			



		PART NO.	
		VER.0.56	
		DEVELOPMENT NO.	
		Q/M	
		96 / 108	

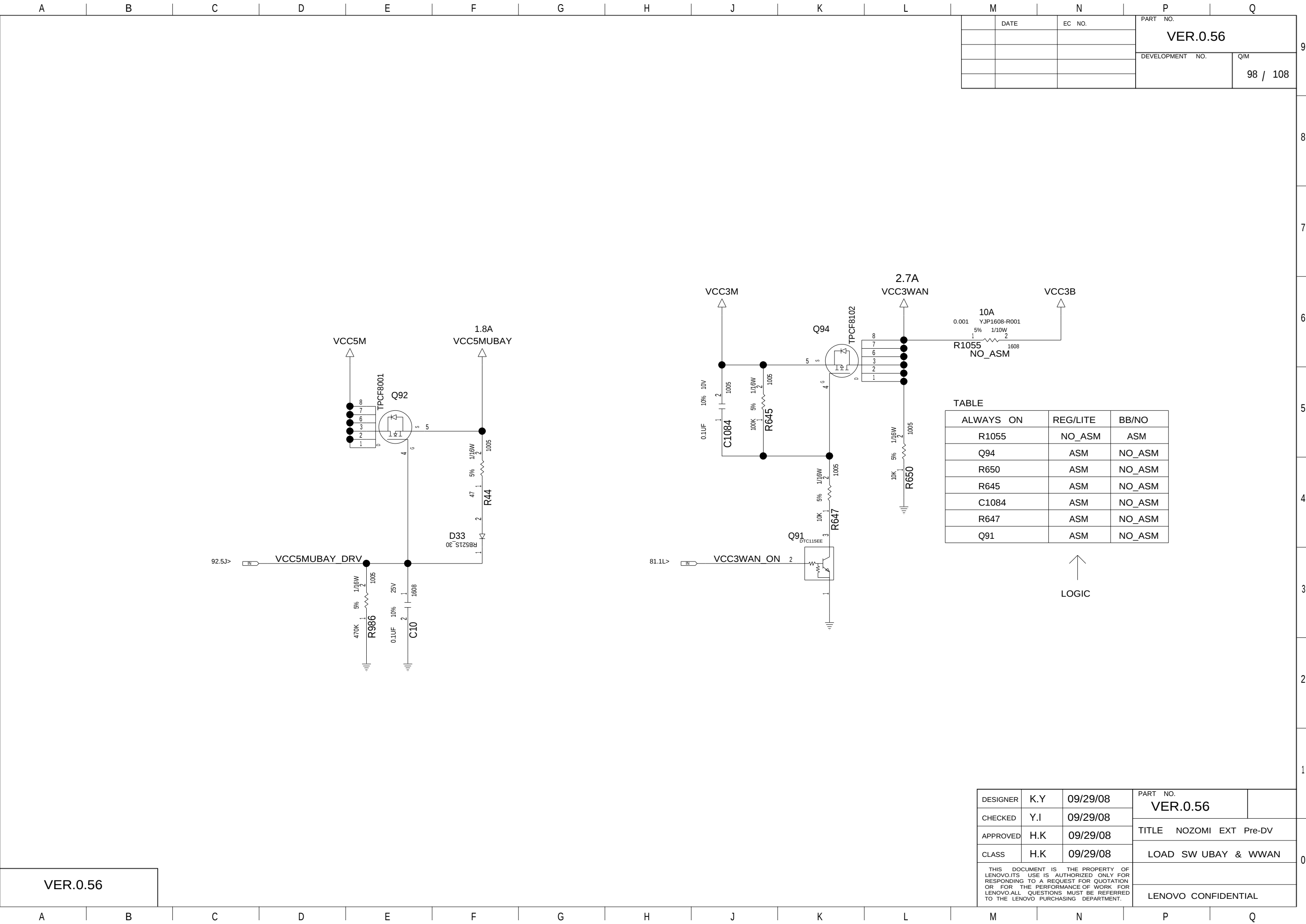
DESIGNER	K.Y	09/29/08	PART NO.	
CHECKED	Y.I	09/29/08	VER.0.56	
APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	LOAD SW B	
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M		N		P		Q	
	DATE	EC NO.		PART NO. VER.0.56			
				DEVELOPMENT NO.			
				Q/M			
				97 / 108			

VER.0.56

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	DC/DC VCC1R8B		
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		PART NO.	
		VER.0.56	
		DEVELOPMENT NO.	Q/M
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TABLE		
ALWAYS ON	REG/LITE	BB/NO
R1055	NO_ASM	ASM
Q94	ASM	NO_ASM
R650	ASM	NO_ASM
R645	ASM	NO_ASM
C1084	ASM	NO_ASM
R647	ASM	NO_ASM
Q91	ASM	NO_ASM

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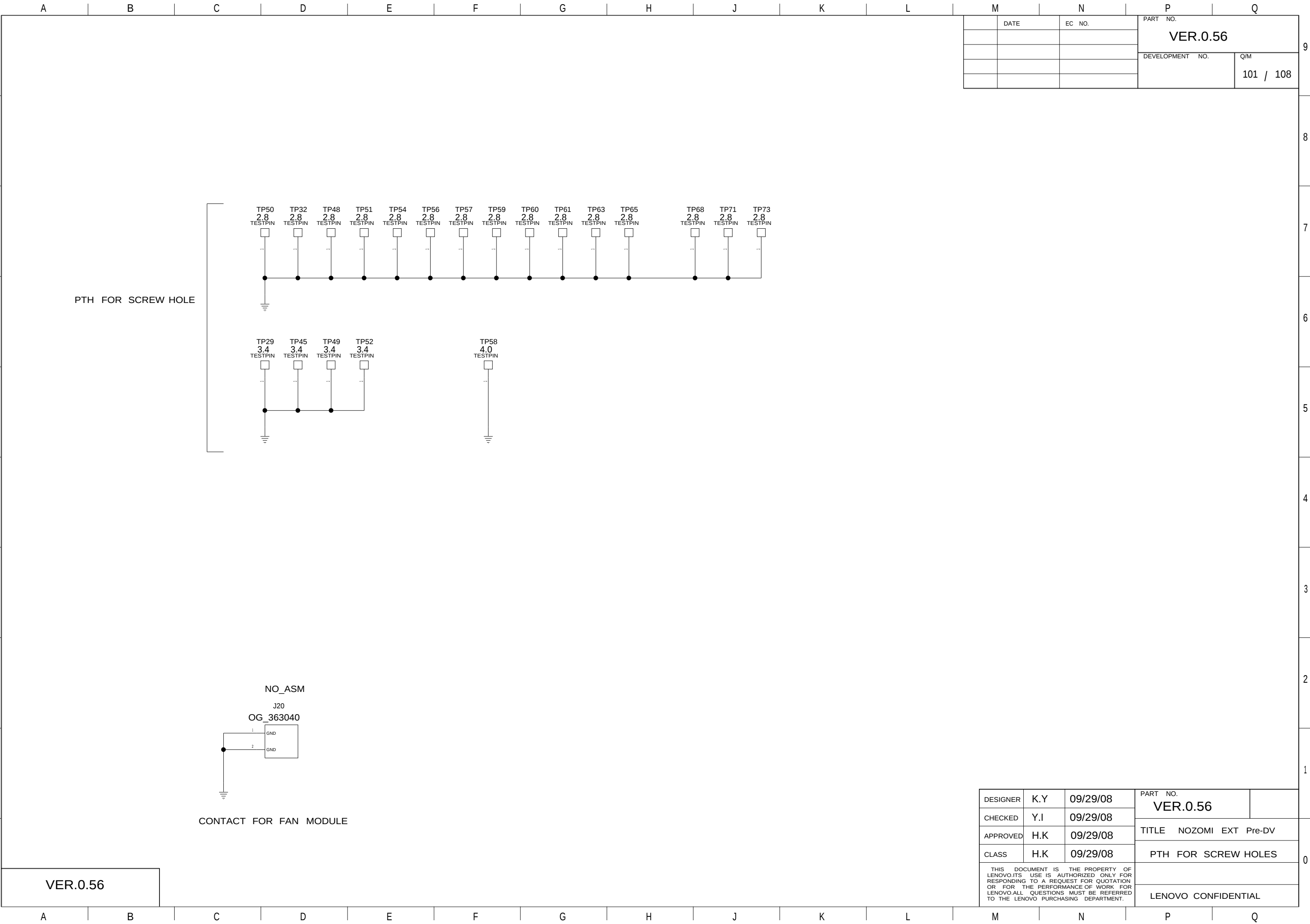
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APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	LOAD SW UBAY & WWAN	
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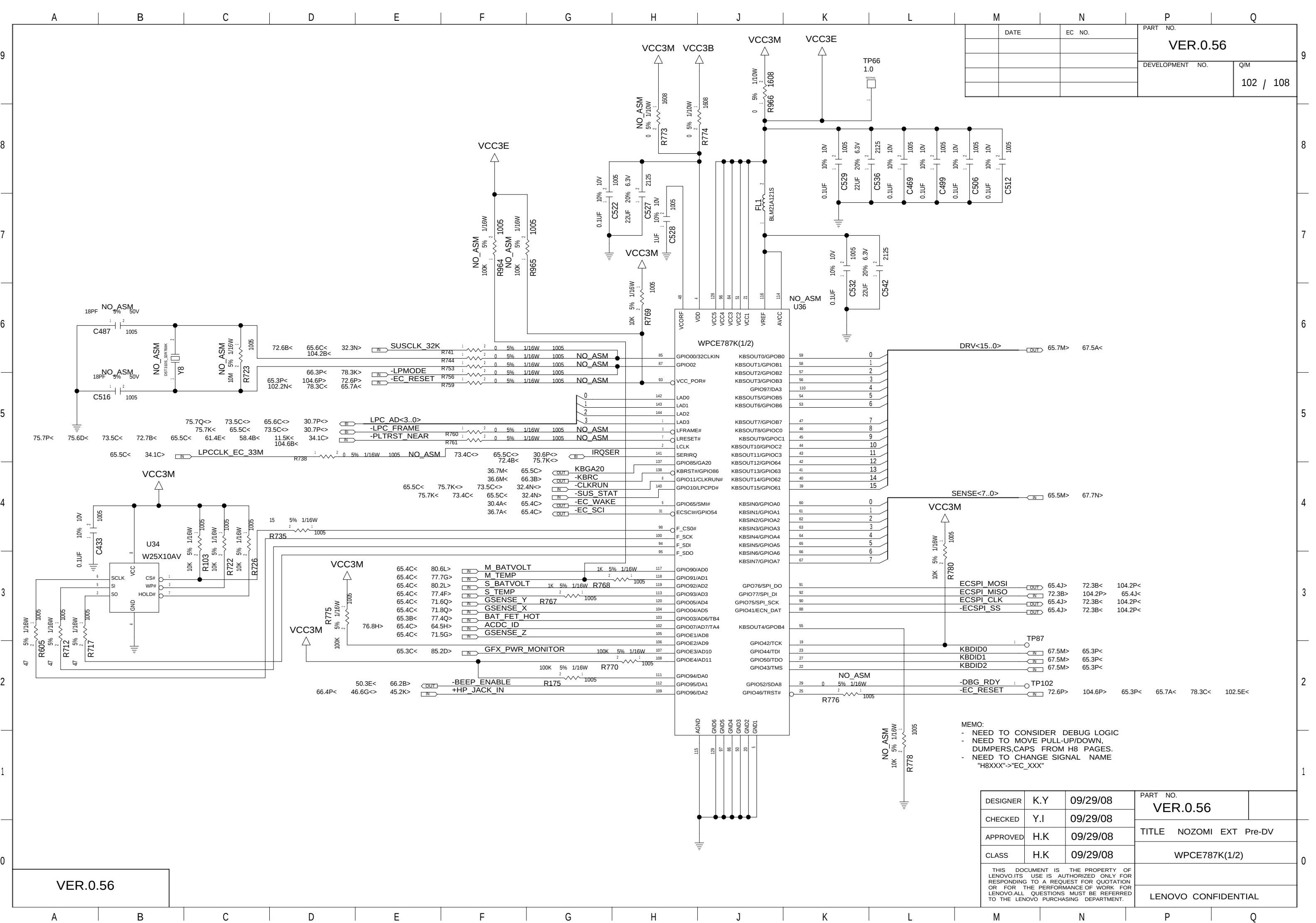
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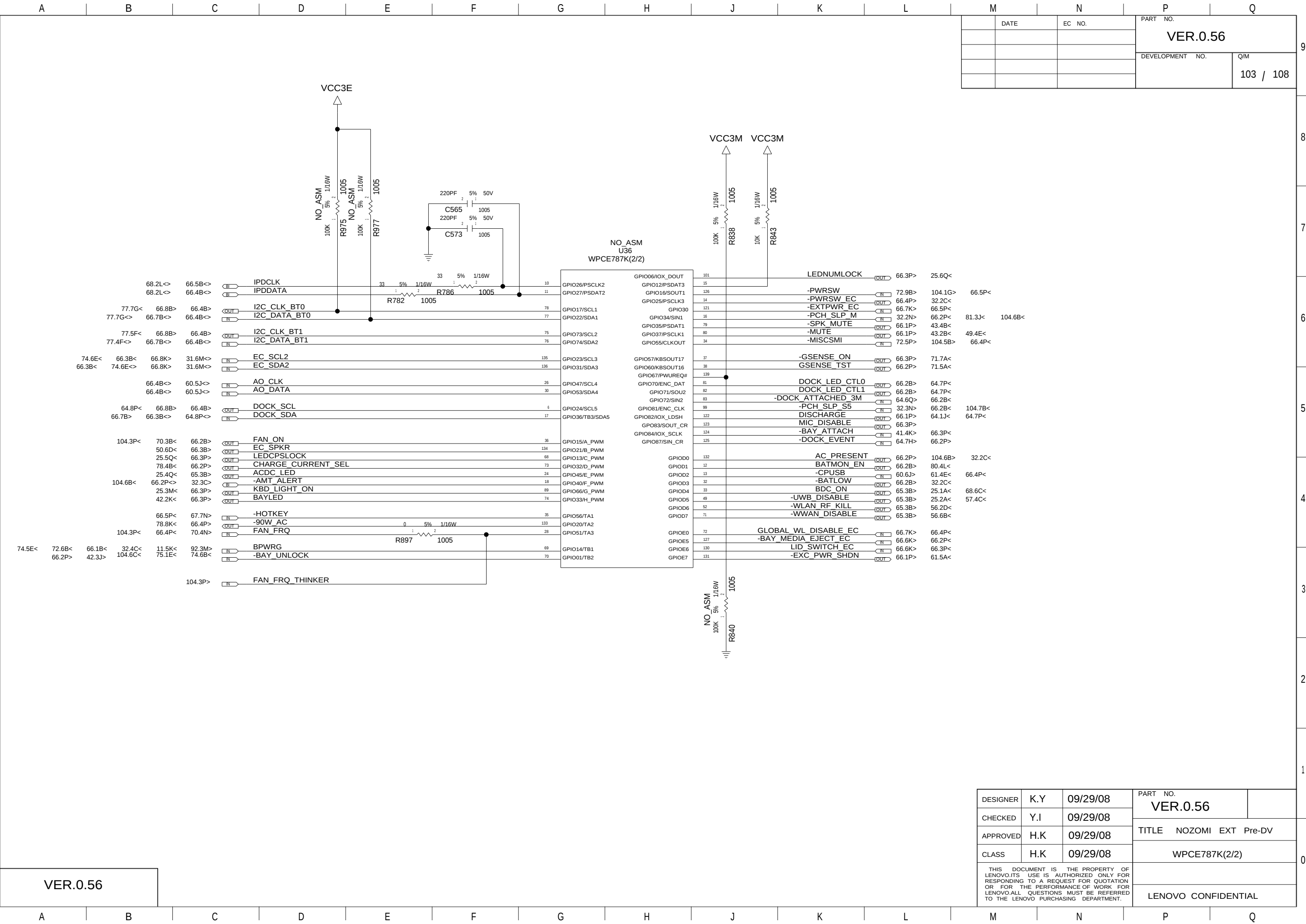
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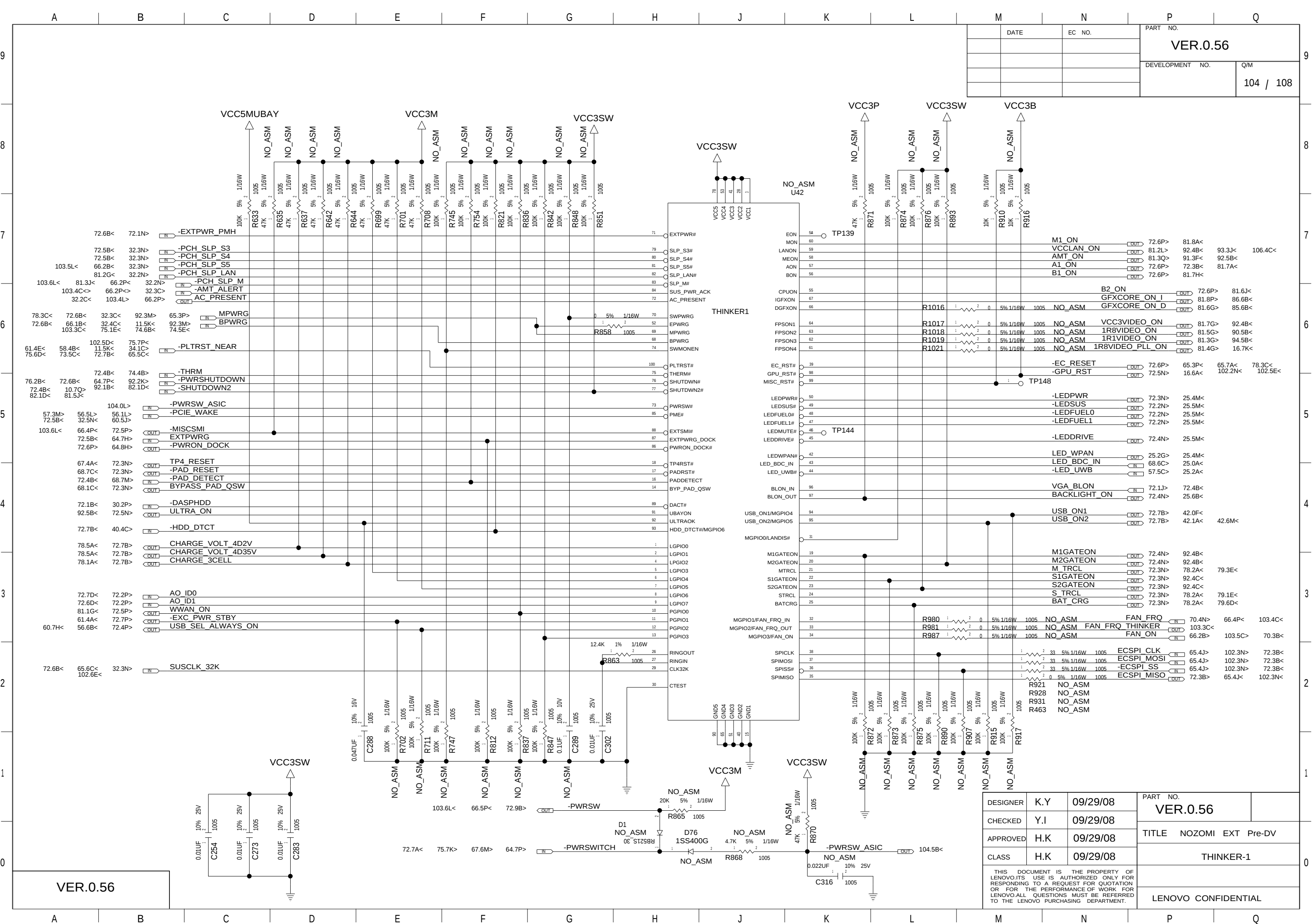


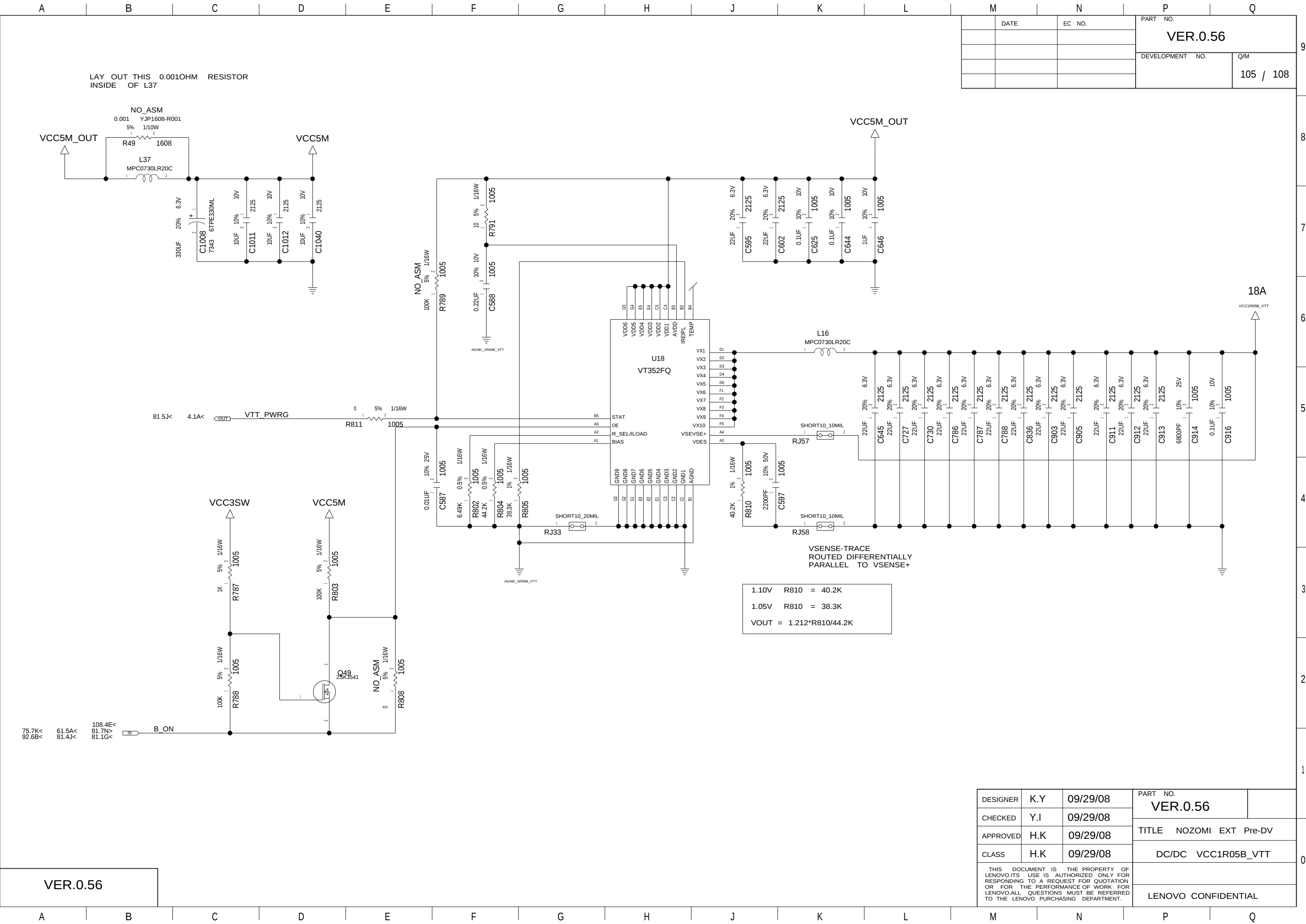


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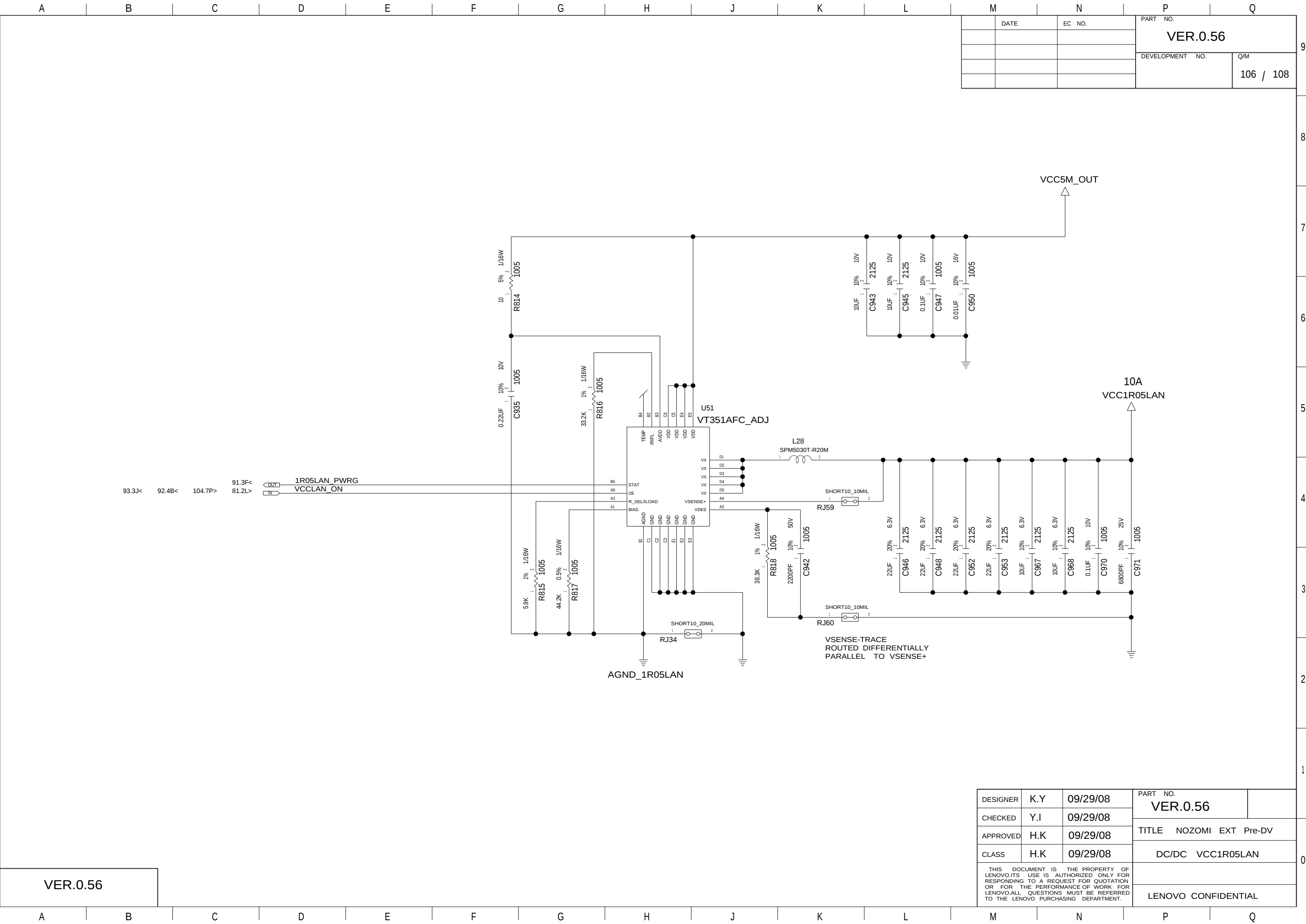
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APPROVED	H.K	09/29/08	TITLE NOZOMI EXT Pre-DV	
CLASS	H.K	09/29/08	WPCE787K(2/2)	
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APPROVED	H.K	09/29/08	DC/DC	VCC1R05B_VTT
CLASS	H.K	09/29/08	LENOVO CONFIDENTIAL	



PART NO.		VER.0.56	
DEVELOPMENT NO.		Q/M	
		106 / 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	
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