N32H492xE/xG

N32H492 32 bit ARM Cortex-M4F 240MHz DSP
1MB Flash 320KB SRAM 80KB CCM SRAM + 4KB Backup SRAM 3 12bit 4.7Msps ADC 2 12bit DAC USB FS Device USB HS Host/Device U(S)ART I2C SPI CAN-FD Ethernet SDIO FEMC xSPI SDRAM I2S
AES/TDES SHA SM3 SM4 MD5 TRNG CRC16/32

CPU

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118 GPIOs PD6~PD7 PG9~PG15 9 IO VDDIO

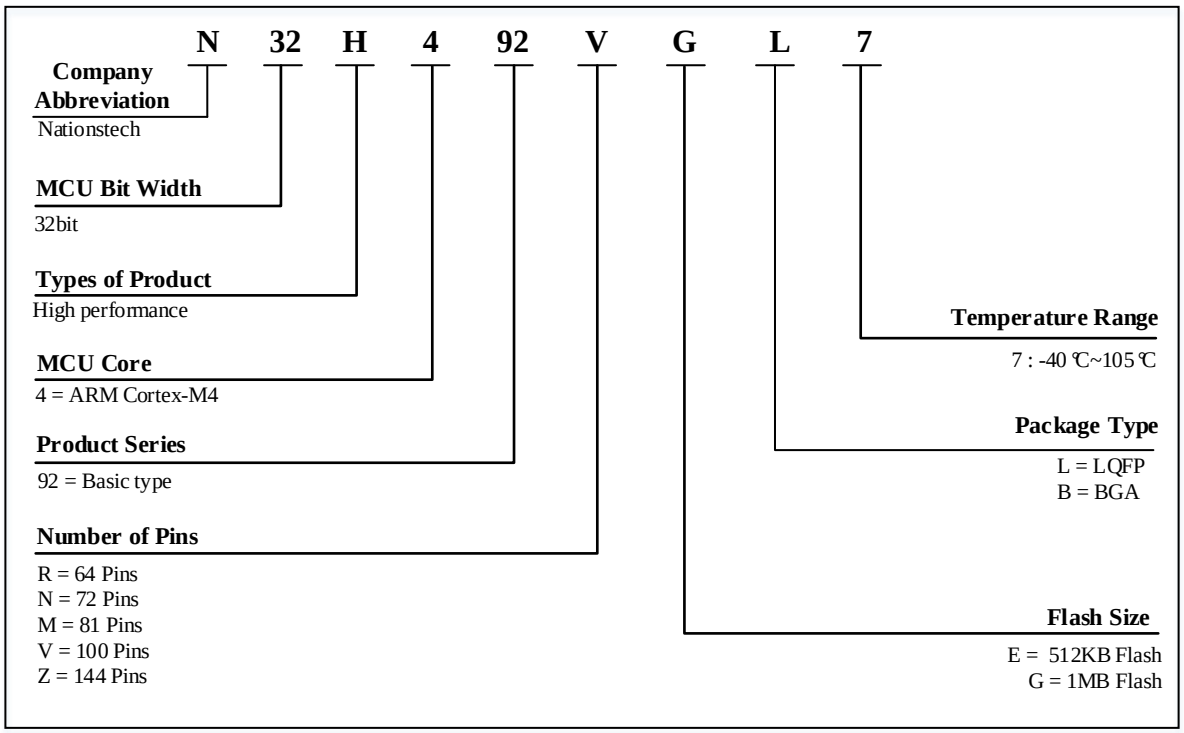
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		N32H492RE/RGL7		N32H492RE/RGB7		N32H492NE/NGB7		N32H492ME/MGB7		N32H492VE/VGL7		N32H492ZE/ZGL7	
		1.8~3.6V/-											
CPU		ARM Cortex-M4F @240MHz, 300DMIPS											
Flash	KB	512	1024	512	1024	512	1024	512	1024	512	1024	512	1024
Total SRAM (KB)	General SRAM	240[1]											
	CCM SRAM[2]	80[3]											
	Backup SRAM	4											
	ATIM	3*16bit											
	GTIM	5*16bit											
		2*32bit[4]											
		3*16bit[5]											
	BTIM	2*32bit											
	LPTIM	2*16bit											
	SysTick timer	1											
	WWDG	1*14bit											

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12bit ADC Number of channels	3 20	3 23	3 23	3 23	3 20	3 28
12bit DAC Number of channels	2 2					
	DES/3DES AES SHA1/SHA224/SHA256 SM3 SM4 MD5 CRC16/CRC32					
TRNG	Yes					
Cordic	Yes					
DSMU Number of channels	1 8					
	RDP/WRP					
	LQFP64	BGA64	BGA72	BGA81	LQFP100	LQFP144

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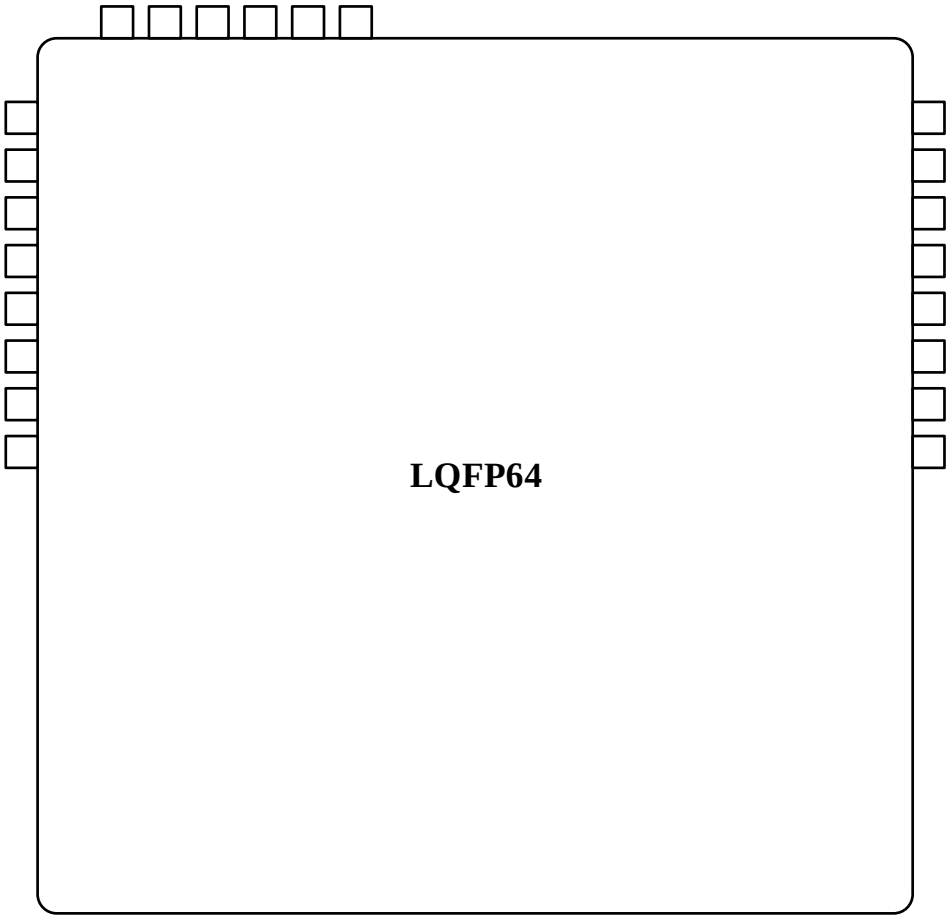
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ZZZ_OVL¿"... ("«ÀZ_OVL_OJ!ò!R‰@8 6 + 6 + d '+ + VYLW" ZZZ_OVL¿"T3 ("¡£Ð ZZ_OVL_OJ1•!R‰@ î '¸a"¡¿"T9R ("c•

3

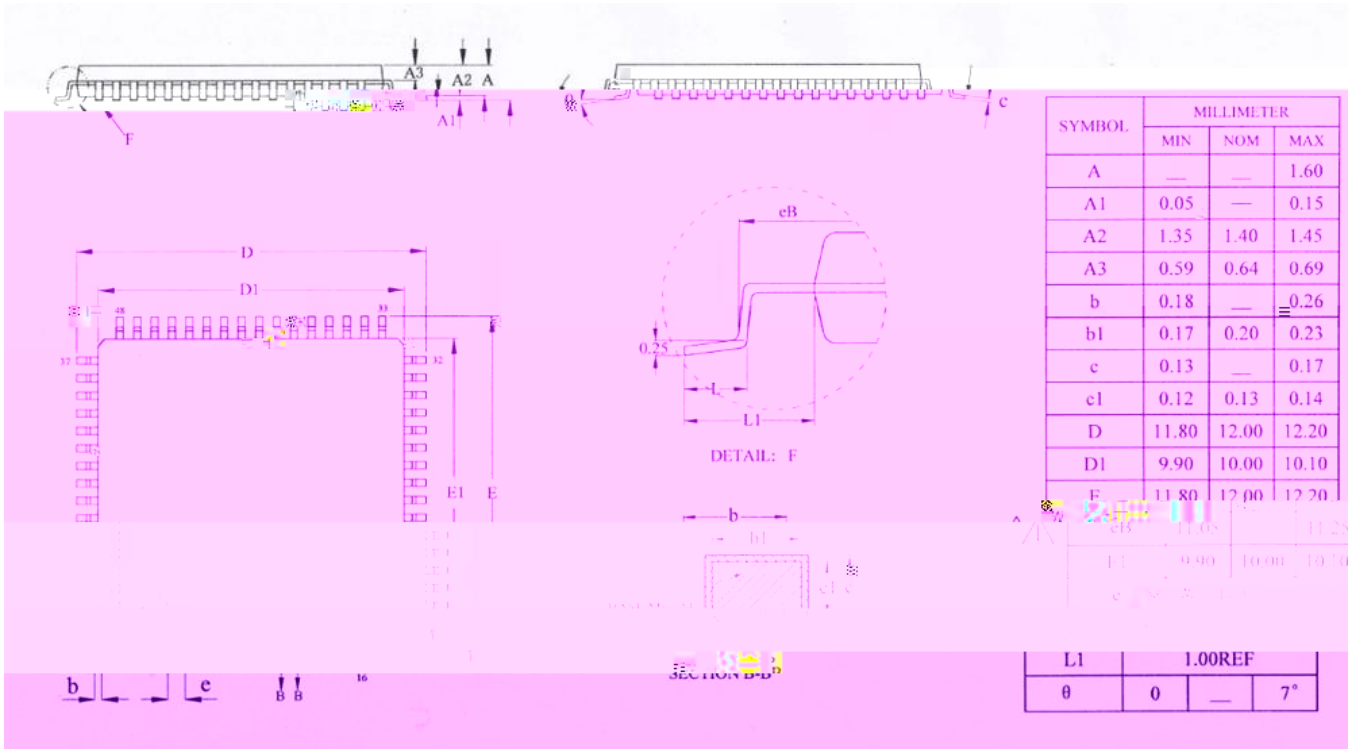
3.1 LQFP64

3.1.1 LQFP64



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3.1.2 **LQFP64**



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	—	—	1.60
A1	0.05	—	0.15
A2	1.35	1.40	1.45
A3	0.59	0.64	0.69
b	0.18	—	0.26
b1	0.17	0.20	0.23
c	0.13	—	0.17
c1	0.12	0.13	0.14
D	11.80	12.00	12.20
D1	9.90	10.00	10.10
E	11.80	12.00	12.20
L1	1.00REF		
θ	0	—	7°

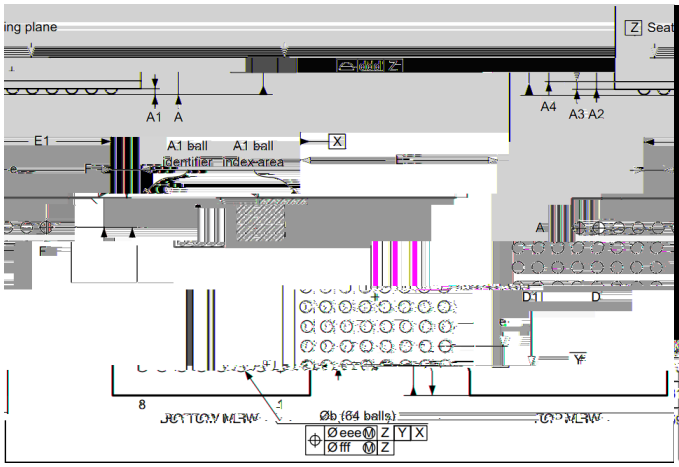
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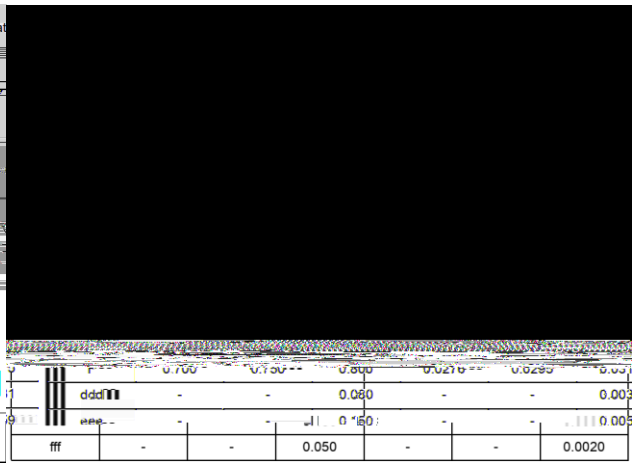
3.2 BGA64

3.2.1 BAG64

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3.2.2 **BGA64**

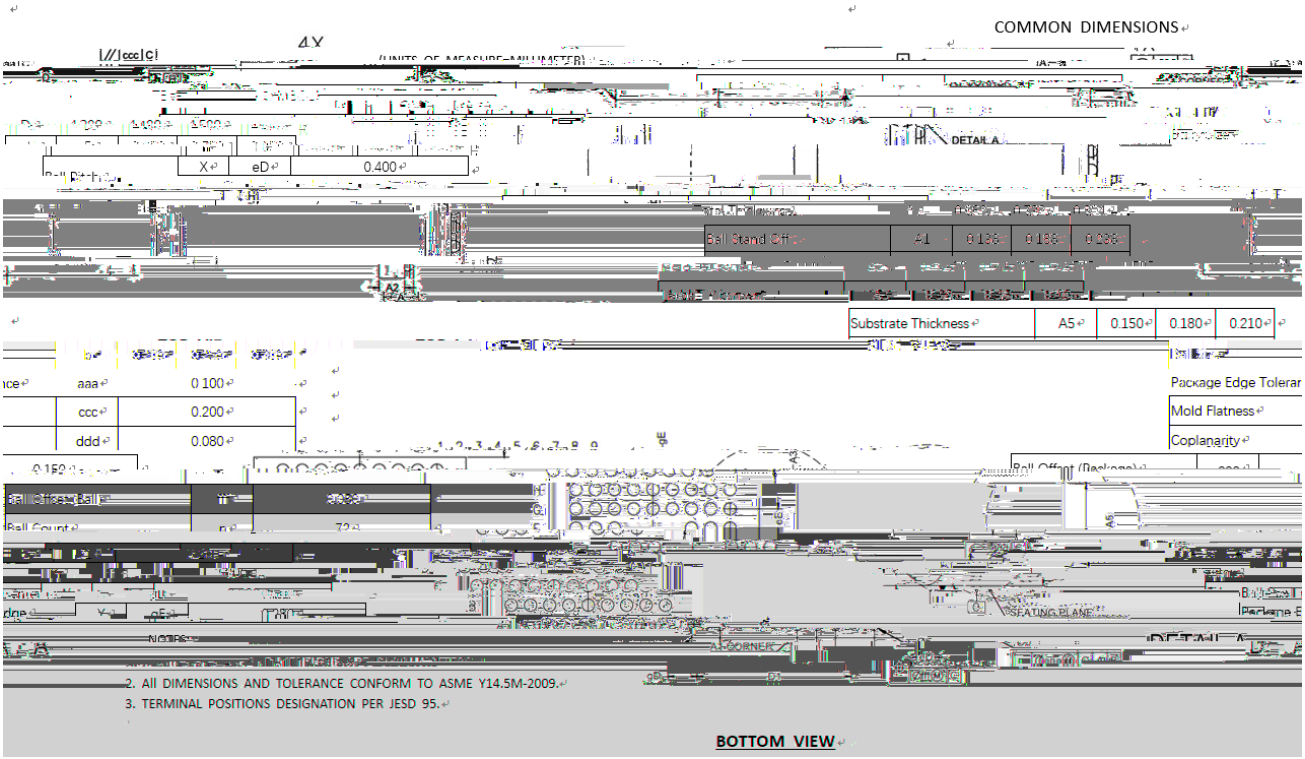




ddd	-	-	0.080	-	-	0.003
eee	-	-	0.150	-	-	0.006
fff	-	-	0.050	-	-	0.0020

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3.3.2 **BGA72**



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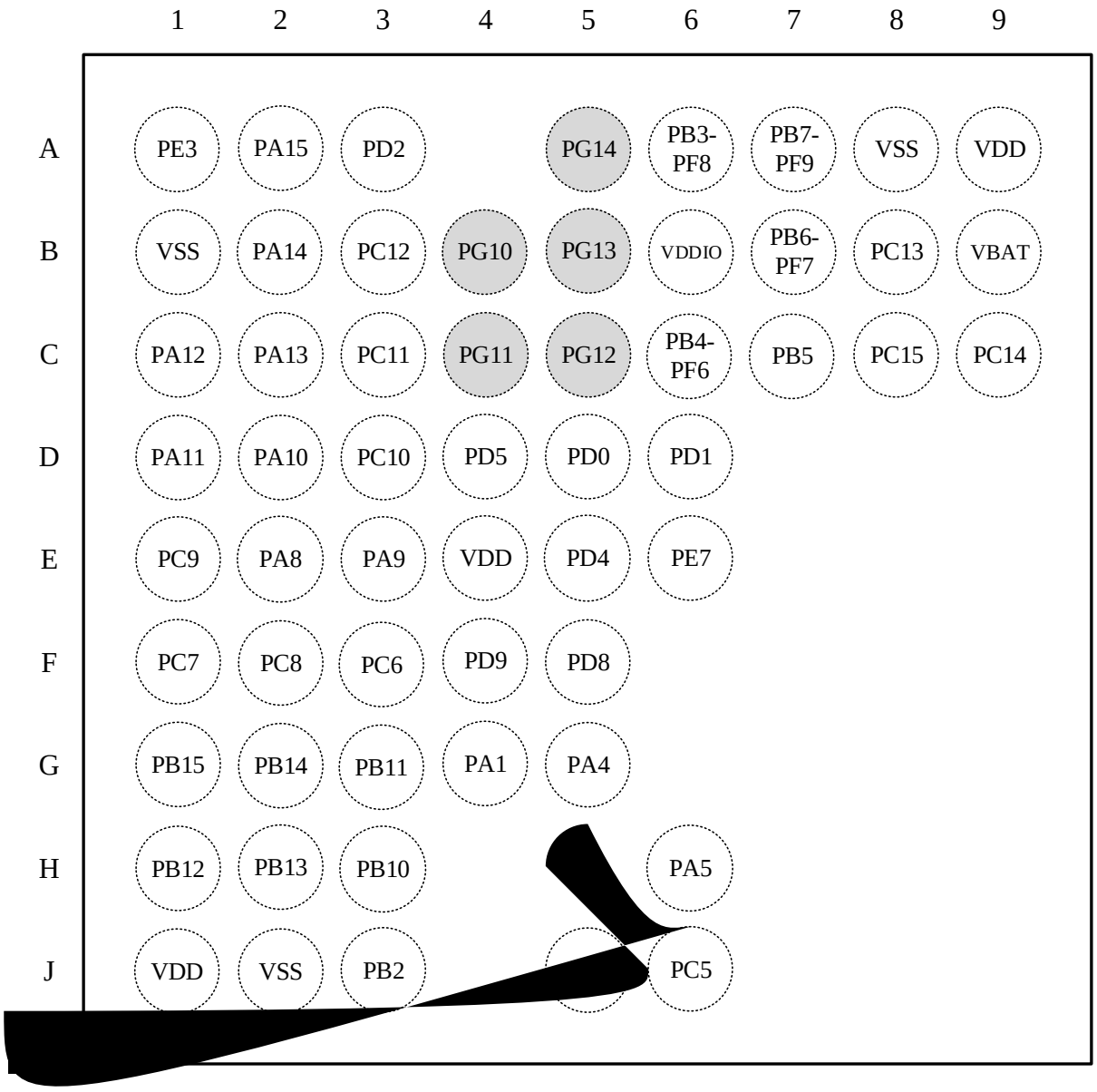
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3.4 BGA81

3.4.1 BGA81

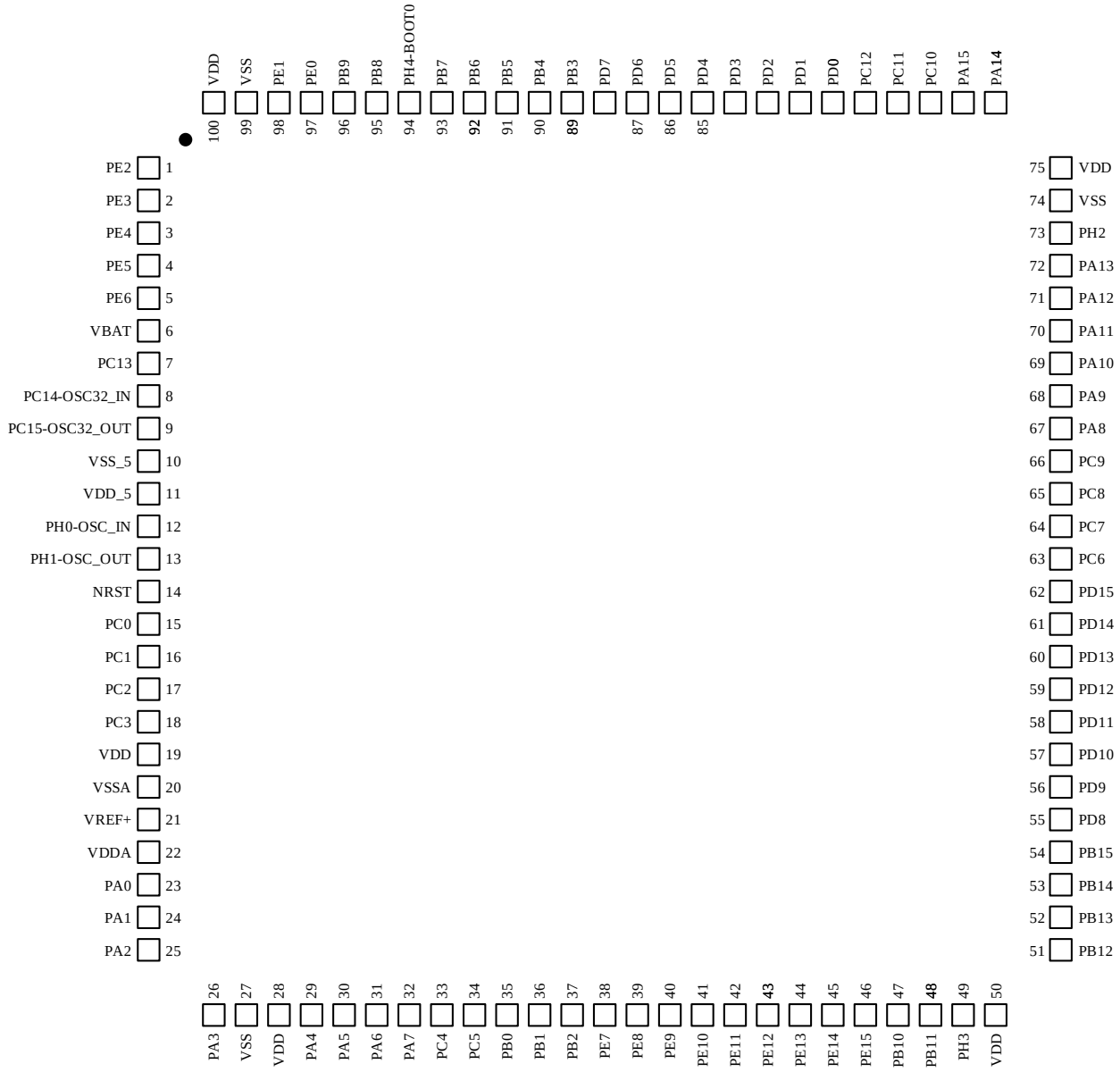


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3.5 LQFP100

3.5.1 LQFP100



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3.5.2 **LQFP100**



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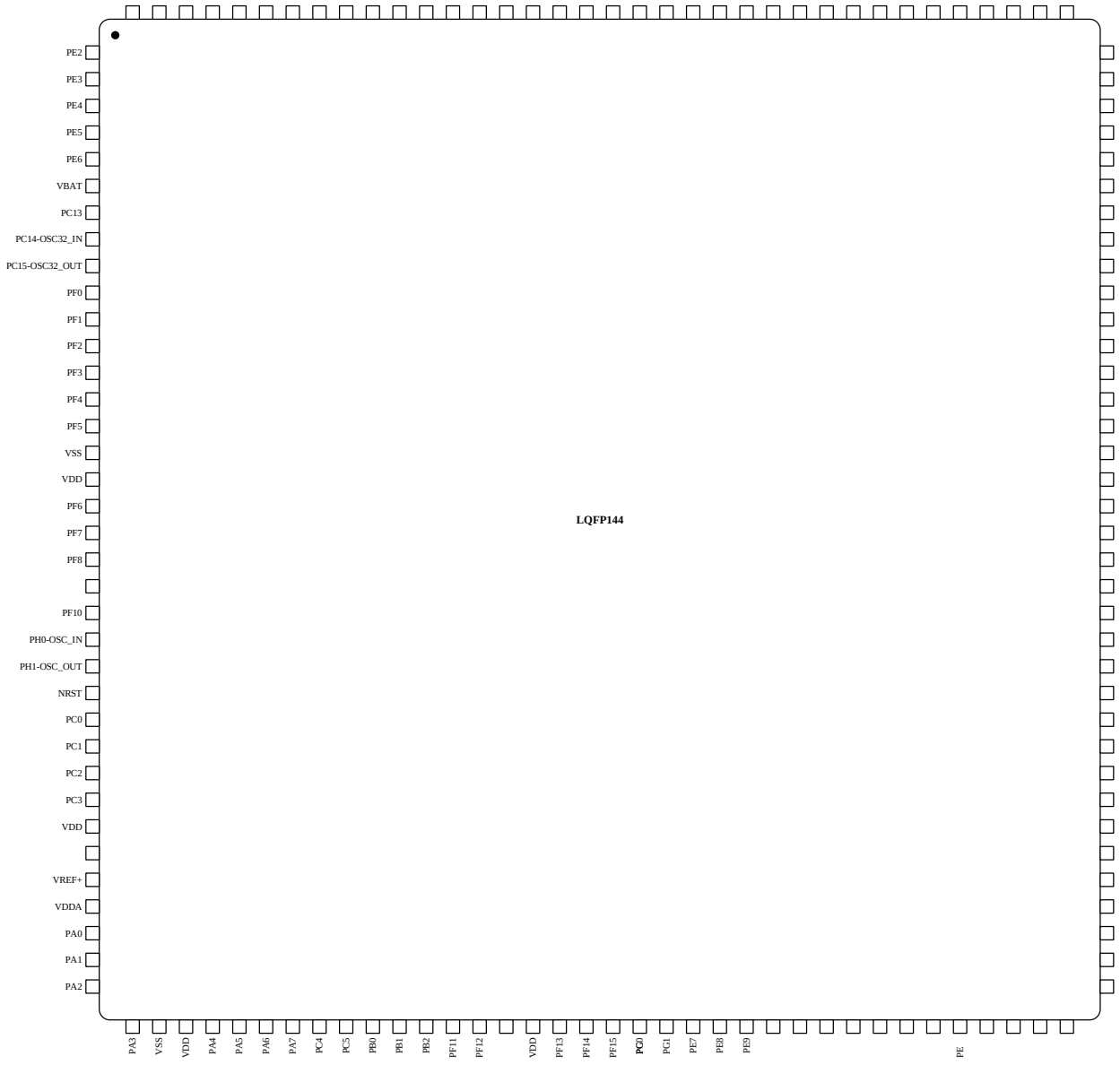
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3.6 LQFP144

3.6.1 LQFP144



3.6.2 LQFP144



Symbol	millimeters			inches[1]		
	Min	Typ	Max	Min	Typ	Max
		A			1.600	
	0.0059	A1	0.050	-	0.150	0.0020
	0.0571	A2	1.350	1.400	1.450	0.0531
.0087	0.0106	b	0.170	0.220	0.270	0.0067
0	20.200	0.7795	0.7874	0.7953	D1	19.800
0	-	-	0.689	-	D3	-
			0.0197	-	e	-
	0.750	0.0177	0.0236	0.0295	L	0.450
	-	-	0.0394	-	L1	-
	7°	0°	3.5°	7°	k	0°
	0.080	-	-	0.0031	ccc	-

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