





DETAIL B

TABLE 1

VARIATION DESIGNATORS									
FIRST DIG	SIT CODE	SECOND DIGIT CODE		THIRD DIGIT CODE		FOURTH DIGIT CODE			
OVERALL HEIGHT		ВПДУ 1	LENGTH	ВПДҮ	WIDTH	TERMINAL	PITCH		
\triangle	LETTER CODE	D	LETTER CDDE	Æ	LETTER CODE	Û	LETTER CODE		
1.00 MAX	>	1.0	A	1.0	A	1.00	4		
0.80 MAX	>	1,5	В	1. 1.	В	0.80	В		
_	1	2.0	U	o N	U	0.65	U		
_	ı	2.5	П	ເກ (ດໄ	D	0 0	D		
_		3.0	Ш	o M	E	0.40	E		
_	1	3.5	F	თ	F		_		
_	_	4.0	U	4.0	G	_	_		
_	-33	5.0	Н	5.0	Н	_	_		
_	9	6.0	7	O O)	1			
_		7.0	K	7.0	K	1	_		
40	_	8.0		ο Θ	L	1	_		
		9.0	Μ	o Ō	М		_		
_		10.0	Z	10.0	Z		_		
_	_	11.0	P	11.0	P	_	_		
		12.0	R	12.0	R				
		4.5	S	4.5	S				
_		5,5	Т	5,5	Т				
_	_	6.5	U	6,5	U	_	_		



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TABLE 2

COMMON DIMENSIONS								
	V: VERY THIN			W: VERY VERY THIN				
SYMBOL	MIN	N□M MAX		MIN	N□M	MAX		
Α	0,80	0.90	1,00	0.70	0.75	0,80		
A1	0	0.02	0,05	0	0.02	0,05		
A2	0	0,65	1,00	0	0,55	0,80		
А3	_	0.20 REF	_	_	0.20 REF			
L1	0.00	_	0.15	0.00	_	0.15		
Ө	O°		14°	O°		14°		
K	0.20	_	- 0.20 -		_			
R	b MIN/2	_	_	b MIN/2		_		
NOTES			1,	2				
REF			11-	684				
ISSUE	I							

TABLE 3

	LEAD	WIDTH			
		b			
PITCH	MIN	NDM	MAX		
1,00	0,30	0.40	0.45		
0.80	0.25	0.30	0.35		
0.65	0.25	0.30	0,35		
0.50	0.18	0,25	0,30		
0.40	0.15	0.20	0,25		
NOTES		5,14			
REF	11-534				
ISSUE		A			

TABLE 4

TOLERANCE	OF FORM &	POSITION
symbol pitch	0.40mm	>0.40mm
aaa	0.10	0.15
bbb	0.07	0,10
CCC	0.10	0,10
ddd	0.05	0.05
666	0,08	0,08
fff	0.10	0.10
NOTES	1,2	2
REF	11-7	43
ISSUE	K	

EXAMPLE: A 20-TERMINAL PQFN WHICH IS 5 mm LONG (DIMENSION D) BY 5 mm WIDE (DIMENSION E) AND 0.65 mm PITCH WILL BE VARIATION HHC.

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TABLE 5A



SUMMARY TABLE					
BODY SIZE	LEAD PITCH	LEAD COUNT	VERY THIN FQFP-N	VERY VERY THIN FQFP-N	
2.00 X 2.00	0,50	8	VCCD	WCCD	
	0,80	4	VEEB	WEEB	
	0.65	8	VEEC	WEEC	
3.00 X 3.00	0.65	12	VEEC-1	WEEC-1	
3,00 % 3,00	0,65	8	VEEC-2,3	WEEC-2,3	
	0,50	12	∨EED-1,3,5	WEED-1,3,5	
	0,50	16	VEED-2,4,6,7	WEED-2,4,6,7	
	0.40	16	VEEE-1	WEEE-1	
	0,40	20	VEEE	WEEE	
3.50 X 3.50	0.50	20	VFFD/VFFD-1	WFFD/WFFD-1	
3.50 X 4.50	0.50	24	VFSD/VFSD-1,2	WFSD/WFSD-1,2	
	0.80	8	VGEB	WGEB	
4.00 X 3.00	0.65	12	VGEC	WGEC	
	0.50	16	VGED	WGED	
	0,80	12	VGGB	WGGB	
	0.80	14	∨GGB-1	WGGB-1	
	0.65	16	VGGC	WGGC	
	0.65	12	∨GGC-1	WGGC-1	
	0.65	16	VGGC-2,3	WGGC-2,3	
4.00 X 4.00	0.65	16	VGGC-4	WGGC-4	
	0,50	14	VGGD-3	WGGD-3	
	0,50	16	∨GGD-4,10	WGGD-4,10	
	0,50	20	∨GGD-1,5,11	WGGD-1,5,11	
	0.50	24	VGGD-2,6,8,9	WGGD-2,6,8,9	
	0 5	28	∨GGD-7	WGGD-7	
	0.40	28	VGGE	VGGE	
	0.80	10	∨GHB	WGHB	
4.00 X 5.00	0.50	28	VGHD/VGHD-3	WGHD/WGHD-3	
. (5)	0.50	24	VGHD-1,2	WGHD-1,2	
	0,40	32	VGHE	WGHE	
	0.40	34	VGHE−1	WGHE−1	
4.50 X 5.50	0.50	32	VSTD/VSTD-1	WSTD/WSTD-1	
4.50 X 6.50	0.50	36	VSUD/VSUD-1	WSUD/WSUD-1	
	0.80	14	∨HGB	WHGB	
500 × 400	0.80	16	∨HGB-1	WHGB-1	
5.00 X 4.00	0.65	18	VHGC/VHGC-1	WHGC/WHGC-1	
	0,50	24	∨HGD	WHGD	

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TABLE 5B

			SU	MMAF	RY T	ABLE (CONTI	NUED)
	B□D	Y S	SIZE	LEAD PITCH	LEAD COUNT	VERY THIN FQFP-N	VERY VERY THIN FQFP-N
1				0.80	16	∨HHB	WHHB
				0.80	20	∨HHB-1	WHHB-1
				0.65	20	VHHC	WHHC
	5.00	×	5.00	0.65	24	∨HHC-1	WHHC-1
				0.65	20	VHHC-2	WHHC-2
				0.50	28	∨HHD-1,3	WHHD-1,3
				0.50	32	VHHD-2,4,5,6	WHHD-2,4,5,6
				0.40	36	∨HHE	WHHE
				0.40	40	∨HHE-1	WHHE-1
				0.65	22	VHJC	WHJC
	5.00	X	6,00	0.50	32	VHJD	MLHW
	5,00	X	7.00	0,50	38	VHKD/VHKD-1	WHKD/WHKD-1
		. ,		0,50	40	VHKD-2	WHKD-2
	5,50	X	6.50	0.50	40	VTUD/VTUD-1	WTUD/WTUD-1
	0.00		0.00	0.80	18	VJHB	WJHB
				0.80	20	VJHB-1	WJHB-1
	6.00	×	5.00	0,65	22	VJHC	WJHC
				0.50	32	VJHD	WJHD
				0.80	20	VJJB	WJJB
				0.80	24	VJJB-1,2	WJJB-1,2
				0,65	28	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	WJJC
				0.65	24	VJJC-1	WJJC-1
	6.00			0.65	32	VJJC-2	MJJC-5
	6.00	Х	6.00	0.65	28	VJJC-3,4	WJJC-3,4
				0,50	36	VJJD-1,4,8	WJJD-1,4,8
				0.50	38	VJJD-3	WJJD-3
				0.50	40	VJJD-2,5,6	WJJD-2,5,6
				0.50	32	VJJD-7	WJJD-7
				0.40	48	VJJE/VJJE-1	WJJE/WJJE-1
	7.00	X	5.00	0.50	38	VKHD	WKHD
				0.80	28	VKKB	WKKB
				0.65	32	VKKC	WKKC
				0.65	36	VKKC-1	WKKC-1
				0.65	32	VKKC-2	WKKC-2
	7.00	Χ	7.00	0.50	40	VKKD	WKKD
				0.50	44	∨KKD-1	WKKD-1
				0.50	48	VKKD-2	WKKD-2
				0.50	44	VKKD-3	WKKD-3
				0.50	48	VKKD-4,6,8	WKKD-4,6,8
				0.50	44	VKKD-5,7	WKKD-5,7
				0.40	56	VKKE	WKKE
	7.00	×	9,00	0,50	38	VKMC	WKMC

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SUMMARY TABLE (CONTINUED)							
BODY SIZE	E	LEAD PITCH	LEAD COUNT	VERY THIN FQFP-N	VERY VERY THIN FQFP-N		
		0.80	28	VLLB-1	WLLB-1		
		0.80	32	VLLB	WLLB		
		0.65	40	VLLC	WLLC		
		0.65	36	VLLC-1	WLLC-1		
		0.65	44	VLLC-2,4	WLLC-2,4		
8.00 X 8	s nn	0.65	40	VLLC-3	WLLC-3		
0.00 / 0	,,,,,	0.50	48	VLLD	WLLD		
		0.50	48	VLLD-3	WLLD-3		
		0.50	5	∨LLD-1	WLLD-1		
		0.50	56	VLLD-2	WLLD-2		
		0.50	52	VLLD-4	WLLD-4		
		0.50	56	VLLD-5,6	WLLD-5,6		
		0.40	64	VLLE,VLLE-2	WLLE,WLLE-2		
		0.40	68	VLLE-1	WLLE-1		
		0,80	36	VMMB	WMMB		
		0.65	48	VMMC	WMMC		
		0.65	44	VMMC-1,2,3	WMMC-1,2,3		
9.00 X 9	9.00	0.50	64	VMMD/VMMD-3,4	WMMD/WMMD-3,4		
		0.50	60	∨MMD-1	WMMD-1		
		0.50	56	∨MMD-2	WMMD-2		
		0,40	72	∨MME	WMME		
		0.40	76	∨MME-1	WMME-1		
		0.50	64	∨NND-1	WNND-1		
10.00 X 1	10.00	0.50	68	VNND-2	WNND-2		
		0.50	72	VNND-3,4	WNND-3,4		
		0.40	88	VNNE,∨NNE-1	WNNE,WNNE-1		
12.00 X 1	.2.00	0.50	80	VRRD	WRRD		
		0.40	100	VRRE,VRRE−1	WRRE,WRRE-1		
		0.40	108	VRRE-2	WRRE-2		

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TABLE 6A

	e=0.80 PITCH											
VA	ARIATION	VEEB	VGEB	∨GGB	VGGB-1	∨GHB	VHGB	∨HGB-1	VHHB	N/77T/		
SYMBL	7/	WEEB	WGEB	WGGB	WGGB-1	WGHB	WHGB	WHGB-1	WHHB	NDTE		
DI	3SC	3,00	4,00	4,00	4,00	4,00	5.00	5.00	5.00			
E	3SC	3,00	3,00	4,00	4,00	5,00	4,00	4,00	5,00			
D1 :	BSC	2,75	3.75	3.75	_	1	4.75	_	4.75	9		
E1 :	BSC	2.75	2.75	3.75	_	1	3,75	_	4.75	9		
	MIN	ل ام ام	0.75	o.75	2.10	2.10 2.10	1.25	3,10	1.25			
D2	NDM	0.70	1.70	1.70	2,20	დ ი	2.70	3,20	2,70			
	MAX	1. 2.5	2,25	55 2. 2.	2,30	დ დ <u>i</u>	3,25	3,30	3,25			
	MIN	5 2 5	0,25	0.75	2.10	3.10	0,75	2.10	1.25			
E2	NDM	0.70	0.70	1.70	2,20	3,20	1.70	2.20	2.70			
	MAX	1.25	1,25	2,25	2,30	3,30	2,25	2.30	3,25			
	MIN	0,35	0.35	0,35	0,35	0,35	0.35	0.35	0,35			
L	NDM	0,55	0.55	0,55	0,55	0,55	0.55	0.55	0.55			
	MAX	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75			
<u> </u>	1	4	8	12	14	10	14	16	16	7.3		
	ND		3	3	4	2	4	5	4	6		
N		1	1	3	3	3	3	3	4	6		
NOTES		1,2,10		1,2,10	 	1,2,10	†		+			
REF		11-534	11-534	11-534	11-684	11-684	11-534	11-684	11-534			
ISS	SUE	Α	Α	Α	I	I	Α	I	Α			

TABLE 6B

	e=0.80 PITCH											
VA	ARIATION	∨HHB-1	VJHB	VJHB-1	VJJB	VJJB-1	VJJB-2	VKKB	VLLB	ΝΩΤΕ		
SYMBOL		WHHB-1	WJHB	WJHB-1	WJJB	WJJB-1	WJJB-2	WKKB	WLLB			
DI	3SC	5.00	6,00	6,00	6,00	6,00	6,00	7.00	8,00			
E BSC		5,00	5.00	5,00	6,00	6,00	ر. 0	7.00	8,00			
D1 BSC		_	5.75	9 –	5,75	_	1	6.75	7.75	9		
E1 BSC		_	4.75	_	5,75	_	1	6.75	7.75	9		
	MIN	3.10	1.75	4,10	1.75	4.10	4.10	2,25	2.75			
D2	NDM	3,20	3.70	4.20	3,70	4.20	4.20	4.70	5,70			
	MAX	3,30	4.25	4,30	4.25	4,30	4.30	5,25	6.25			
	MIN	3.10	1.25	3,10	1.75	4.10	4.10	2,25	2.75			
E2	NDM	3.20	2.70	3,20	3,70	4.20	0 4	4.70	5.70			
	MAX	3,25	3,25	3,30	4.25	4,30	4.30	5.25	6.25			
	MIN	0.35	0,35	0,35	0,35	0.35	0,35	0,35	0,35			
L	NDM	0.55	0,55	0,55	0,55	0.55	0,55	0,55	0.55			
	MAX	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75			
N	1	20	18	20	20	24	24	28	32	7,3		
Ν	D	Ъ	15	6	15	7	IJ	7	ω	6		
NE NE		4	4	4	5	5	7	7	8	D		
NOTES		1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10			
RE	REF		11-534	11-684	11-534	11-684	11-684	11-534	11-534			
ISS	SUE	I	Α	I	Α	I	I	Α	Α			

JEDEC	SOL	ID S	STATE	
PRODI	JCT	DUT	LINE	
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TABLE 6C

JEDEC	SOL	.ID	STA	TE.
PRODU	JCT	ΠU	TLIN	١E
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TABLE 7A

	e=0.65 PITCH											
VA	RIATION	VEEC	VEEC-1	VEEC-2	VEEC-3	VGEC	VGGC	VGGC-1	VGGC-2	VGGC-3	NDTE	
SYMBOL		WEEC	WEEC-1	WEEC-2	MEEC-3	WGEC	WGGC	WGGC-1	WGGC-2	WGGC-3		
DF	3SC	3,00	3,00	3,00	3.00	4.00	4,00	4,00	4.00	4.00		
E	3SC	3,00	3,00	3,00	3,00	3,00	4,00	4,00	4.00	4.00		
D1 :	BSC	2.75	_	_	_	3.75	3.75	_	_	3.75	9	
E1 :	BSC	2.75	_	_	_	2.75	3.75	_	_	3.75	9	
	MIN	0.25	1.50	1.50	1.50	0.75	0.75	2.50	2.50	2.40		
D2	NDM	0.70	1.65	1.65	1.65	1.70	1.70	2.65	2.65	-		
	MAX	1.25	1.80	1.80	1,80	2.25	2.25	2.80	2.80	2,80		
	MIN	0.25	1,50	1,50	1.50	0.25	0.75	2.50	2.50	2.40		
E2	NDM	0,70	1.65	1.65	1.65	0.70	1.70	2.65	2.65	-		
	MAX	1.25	1.80	1.80	1.80	1.25	2,25	2.80	2.80	2.80		
	MIN	0.35	0,35	0,35	0.30	0,35	0.35	0.35	0.35	0.30		
L	NDM	0.55	0.40	0.40	0.40	0.55 0.	0.55	0.40	0.40	0.40		
	MAX	0.75	0.45	0.45	5 5	0.75	0.75	0.45	0.45	0.50		
N	1	8	12	8	œ	12	16	12	16	16	7.3	
N		2	3	2	2	4	4	3	4	4	6	
N		2	3	2	2	2	4	3	4	4	6	
NDI		1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10		
RE		11-534	11-640	11-640	11-629	11-534	11-534	11-640	11-640	11-743		
ISS	SUE	Α	F	F	E	Α	Α	F	F	K		

TABLE 7B

	e=0.65 PITCH											
VARIATION		VGGC-4	VHGC	∨HGC-1	VHHC	VHHC-1	VHHC-2	VHJC	VJHC	VJJC		
SYMBIJL		WGGC-4	WHGC	WHGC-1	WHHC	WHHC-1	WHHC-2	WHJC	WJHC	WJJC	NDTE	
D I	BSC	4.00	5.00	5.00	5.00	5.00	5,00	5,00	6.00	6.00		
ΕI	BSC	4.00	4.00	4.00	5,00	5.00	5,00	6,00	5.00	6.00		
D1 :	BSC	1	4.75	4.75	4.75	I	1	-	5.75	5.75	9	
E1 :	BSC	1	3,75	3.75	4.75	ı		-	4.75	5.75	9	
	MIN	ر ا ا	1.25	3,00	1,25	ე ე	3,50	3.50	1.75	1.75		
D2	NDM	2.40	2.70	_	2.70	3,65	3,65	3.65	3.70	3.70		
	MAX	2.60	3.25	3.70	3,25	3,80	3,80	3,80	4.25	4. 25		
	MIN	2.20	0.75	2.20	1,25	3,50	3,50	4.50	1.25	1.75		
E2	NDM	2.40	1.70	_	2.70	3,65	3,65	4.65	2.70	3.70		
	MAX	2.60	25 2. 2.	2.70	3,25	3,80	3,80	4.80	3,25	4.25		
	MIN	0.45	5 0. 0.	0.30	0,35	5 0 0	0,35	0,35	0.35	5 0. 0.		
L	NDM	0.55	0.55 0.	0.40	0,55	0.40	0.40	0.40	0.55	5. 5.		
	MAX	0.65	0.75	0.50	0.75	0.45	0.45	0.45	0.75	0.75		
<u> </u>	1	16	18	18	20	24	20	22	22	28	7.3	
Ν	D	4	15	5	5	Ф	15	5	6	7	6	
N	E	4	4	4	5	6	5	6	5	7	6	
	TES	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10		1,2,10	$\overline{}$	
RE		11-684	11-534	11-684	11-620	11-640	11-640	11-640	11-534	11-620		
ISS	SUE	I	Α	I	D	F	F	F	Α	D		

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TABLE 7C

				e=	0.65 PI	TCH				
VA	RIATION	VJJC-1	VJJC-2	VJJC-3	VJJC-4	VKKC	VKKC-1	VKKC-2	VKMC	NDTE
SYMBOL		WJJC-1	WJJC-2	MJJC-3	WJJC-4	WKKC	WKKC-1	WKKC-2	WKMC	/ <i>VLI E</i>
DE	3SC	6.00	6.00	6.00	6,00	7.00	7.00	7.00	7.00	
E	3SC	6.00	6.00	6.00	6.00	7.00	7.00	7.00	9.00	
D1 :	BSC	1	_	_	5.75	6.75	_	_	_	9
E1 :	BSC	-	_	_	5.75	6.75	_	_	_	9
	MIN	4.50	4.50	4.50	4.00	ب م م	5,50	5.50	4.95	
D2 [M	4.65	4.65	4.65	-	4.70	5.65	5.65	5.10	
	MAX	4.80	4.80	4.80	4.55	5 5	5.80	5.80	5.25	
	MIN	4.50	4.50	4.50	4.00	2.25	5,50	5,50	6.95	
E2	NDW	4.65	4.65	4.65	-	4.70	5.65	5.65	7.10	
	MAX	4.80	4.80	4.80	4.55	5 5 5	5,80	5.80	7.25	
	MIN	0.35	0.35	0.35	0.30	o. 35	0.35	0.35	0.45	
L [NDM	0.40	0.40	0.40	0.40	o. 55	0.40	0.40	0,55	
	MAX	0.45	0.45	0.45	0.50	0.75	0.45	0.45	0,65	
	7	24	32	28	28	32	36	32	38	7.3
N	D	D	8	7	7	ω	9	8	8	6
N	E	Û	8	7	7	ω	9	8	11	6
NDT	ΓES	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	
RE	F	11-640	11-640	11-640	11-684	11-534	11-640	11-640	11-743	
ISS	SUE	F	F	F	I	Α	F	F	К	

TARLE 7D

IARLE	. / Л										
	e=0.65 PITCH										
VA	ARIATION	VLLC	VLLC-1	VLLC-2	VLLC-3	VLLC-4	∨MMC	∨MMC-1	VMMC-2	∨MMC-3	NOTE
SYMBOL		WLLC	WLLC-1	WLLC-2	WLLC-3	WLLC-4	WMMC	WMMC-1	WMMC-2	WMMC-3	
DI	BSC	8,00	8.00	8,00	8,00	8,00	9.00	9.00	9,00	9,00	
E	BSC	8.00	8.00	8.00	8,00	8,00	9,00	9.00	9.00	9,00	
D1	BSC	7.75	-		_	_	_	_	8.75	8.75	9
E1	BSC	7.75		_	_	_	_	_	8.75	8.75	9
	MIN	2.75	6.50	6.50	6.50	6.30	7.50	7,50	6.00	7.20	
D2	NDM	5.70	6.65	6.65	6.65	6.45	7.65	7.65	_	7,35	
	MAX	6.25	6,80	6,80	6.80	6.60	7.80	7,80	6.75	7.50	
	MIN	2.75	6,50	6.50	6.50	6.30	7.50	7,50	6.00	7.20	
E2	NDM	5.70	6.65	6.65	6.65	6.45	7.65	7.65	_	7,35	
	MAX	6.25	6,80	6,80	6.80	6.60	7.80	7,80	6.75	7.50	
	MIN	0.35	0.35	0.35	0,35	0.30	0.35	0.35	0,30	0.30	
L	NDM	0,55	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	
	MAX	0.75	0.45	0.45	0.45	0.50	0.45	0.45	0,50	0.50	
<u> </u>	1	40	36	44	40	44	48	44	44	44	7.3
N	D	10	9	11	10	11	12	11	11	11	6
N	E	10	9	11	10	11	12	11	11	11	6
	TES	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	
RE		11-534	11-640	11-640	11-640	11-743	11-640	11-640	11-684	11-743	
ISS	SUE	Α	F	F	F	K	F	F	I	K	

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TABLE 8A

	e=0.50 PITCH											
VARIATION		VCCD	VEED-1	VEED-2	VEED-3	VEED-4	VEED-5	VEED-6	VEED-7	VFFD	NOTE	
SYMBOL	<u>'</u>	WCCD	WEED-1	WEED-2	MEED-3	WEED-4	WEED-5	WEED-6	WEED-7	WFFD	NDTE	
DI	BSC	2,00	3,00	3.00	3.00	3.00	3,00	3,00	3,00	3,50		
E I	BSC	2.00	3,00	3,00	3,00	3,00	3,00	3,00	3,00	3,50		
D1	BSC	1.75	2.75	2.75	_	_	2.75	2.75	_	3,30	9	
E1	BSC	1.75	2.75	2.75	_	_	2.75	2.75	_	3,30	9	
	MIN	0.25	0.25	0.25	1,50	1,50	1,25	1,25	1,05	0.75		
D2	NDM	0.55	0.70	0.70	1,65	1,65	-	-	_	2.00		
	MAX	0.80	1.25	1.25	1,80	1,80	1.65	1.65	1,45	2.10		
	MIN	0,25	0.25	0.25	1,50	1,50	1.25	1.25	1.05	0.75		
E2	NDM	0.55	0.70	0.70	1,65	1,65	-	_	-	2.00		
	MAX	0.80	1.25	1.25	1,80	1,80	1.65	1,65	1,45	2.10		
	MIN	0.30	0.35	0,30	0.35	0,35	0.30	0,30	0.45	0.50		
∟	NDM	0.40	0,55	0.40	0.40	0.40	0.40	0.40	0.50	0.55		
	MAX	0.50	0.75	0,50	0.45	0.45	0.50	0.50	0.55	0.60		
١	V	8	12	16	12	16	12	16	16	20	7.3	
N	ID	2	3	4	3	4	3	4	4	5	6	
N	ΙE	2	3	4	3	4	3	4	4	5	6	
NO	TES	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10		
RE	ΞF	11-563	11-534	11-534	11-640	11-640	11-743	11-743	11-648	11-684		
ISS	SUE	В	Α	Α	F	F	K	K	G	I		

TABLE 8B

	e=0.50 PITCH												
VARIA	TION	VFFD-1	VFSD	VFSD-1	VFSD-2	VGED	∨GGD-1	VGGD-2	∨GGD-3	∨GGD-4	NDTE		
SYMBOL		WFFD-1	WFSD	WFSD-1	WFSD-2	WGED	WGGD-1	WGGD-2	WGGD-3	WGGD-4			
D BSC	` `	3,50	3.50	3,50	3,50	4.00	4.00	4.00	4.00	4,00			
E BSC	,	3,50	4.50	4.50	4.50	3.00	4.00	4.00	4.00	4,00			
D1 BS0	()	_	3,30	- }	1	3.75	3.75	3.75	-	_	ወ		
E1 BS0	$\left(\cdot \right)$	_	4.30		1	2.75	3.75	3.75	_	_	J		
М	IIN	1,60	0.75	1.60	1,60	0.75	0.75	0.75	2.10	2.10			
DS N	M	1.70	2.00	1.70	1	1.70	1.70	1.70	2,20	2.20			
М	АХ	1,80	2.10	1.80	2.10	2.25	2,25	2,25	2,30	2.30			
M	IIN	1,60	1.75	رم م ص	2.60	0.25	0.75	0.75	2.10	2.10			
E2 N	□M	1.70	3.00	2.70	1	0.70	1.70	1.70	2.20	2.20			
М	АХ	1.80	3.10	ص م	3.10	1.25	2.25	2.25	2.30	2.30			
M	IIN	0.35	0.50	0,35	0,30	0.35	0.35	0.30	0.35	0,35			
L N	□M	0.55	0.55	0.55	0,40	0.55	0.55	0.40	0.55	0.55			
M	AX	0.75	0.60	0.75	0.50	0.75	0.75	0.50	0.75	0.75			
Ν		20	24	24	24	16	20	24	14	16	7.3		
ND		5	4	4	4	5	5	6	4	4	6		
NE		5	8	8	8	3	5	6	3	4	6		
NOTES		1,2,10		1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10			
REF		11-684		11-684	11-684	11-534	11-534	11-534	11-684	11-684			
ISSUE		I	I	I	I	Α	Α	Α	I	I			

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TABLE 8C

				e=	0.50 PI	TCH						
VA	ARIATION	VGGD-5	VGGD-6	∨GGD-7	∨GGD-8	VGGD-9	VGGD-10	VGGD-11	VGHD	∨GHD-1	VGHD-2	NOTE
SYMBOL	2	WGGD-5	WGGD-6	WGGD-7	WGGD-8	WGGD-9	WGGD-10	WGGD-11	WGHD	WGHD-1	WGHD-2	NDTE
D 1	BSC	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	
E]	BSC	4.00	4.00	4.00	4.00	4.00	4.00	4.00	5.00	5.00	5.00	
D1	BSC	ı	_	ı	1	1	3.75	3,75	3.75	_	_	9
E1	BSC	ı	_	ı	1	1	3.75	3.75	4.75	_	_	9
	MIN	ი ე	2.50	70 2. 2.	დ იკ	1.05	2.10 2.10	2.10	o.75	2.50	2,70	
D2	NDM	2. 6. 2.	2,65	ω ω ο	ı	ı	1	ı	1.70	2.65	2,80	
	MAX	ر ق م	2.80	დ ი	2 6 0	2.45 2.45	ر م ف	2.60	ر م م	2.80	2,90	
	MIN	ი 2	2,50	2.70 2.	დ დ <u>.</u>	1.05	2.10	2.10	1.75	3,50	3,70	
E2	NDM	2. 65	2,65	N Š	1	ı	ı	-	2.70	3.65	3,80	
	MAX	ر ق 0	2.80	ი ი	2. 60	2,45	ر م ف	2.60	5 3 3	3.80	3,90	
	MIN	0.35	0.35	5 0.	0.30	0.45	0.30	0.30	0.30	0.35	0,35	
L	NDM	0.40	0.40	0.40	0.40	o.50	0.40	0.40	0.40	0.40	0.40	
	MAX	0.45	0.45	o.45	0. 5	o.55	0. 0.	0.50	0.50	0.45	0.45	
1	7	20	24	8	24	24	16	20	ω (\)	24	24	7.3
	ID	15	6	Ф	D	Ю	4	5	D	5	О	Ю
N	ΙE	5	6	ω	D	Ю	4	5	8	7	О	Ю
		1,2,10	1,2,10	<u> </u>	1,2,10	1,2,10	1,2,10			1,2,10	1,2,10	
RE	ΞF	11-640	11-640	11-684	11-743	11-648	11-684	11-743		11-640	11-684	
ISS	SUE	F	F	I	K	G	I	K	В	F	I	

TABLE 8D

				e=	0.50 PI	TCH						
VA	ARIATION	∨GHD-3	VSTD	VSTD-1	VSUD	VSUD-1	∨HGD	∨HHD-1	∨HHD-2	VHHD-3	∨HHD-4	MOTE
SYMBOL	2	WGHD-3	WSTD	WSTD-1	WSUD	WSUD-1	WHGD	WHHD-1	WHHD-2	WHHD-3	WHHD-4	NDTE
D 1	BSC	4.00	4.50	4.50	4.50	4.50	5.00	5.00	5.00	5.00	5.00	
E]	BSC	0 5 5	5.50	5 5 5	6.50	6. 50	4.00	5.00	5.00	5.00	5.00	
D1	BSC	_	4.30	-	4,30	-	4.75	4.75	4.75	_	_	9
E1	BSC	_	5.30	-0	6,30	-	3,75	4.75	4.75	_	_	9
	MIN	2.50	1.75	2.60	1.75	2.60	1.25	2.35	1.25	3,50	3,50	
D2	NDM	2,65	3,00	2.70	3,00	2.70	2.70	2.70	2.70	3,65	3.65	
	MAX	2.80	3.10	2.80	3.10	2.80	3,25	3,35	3,25	3,80	3,80	
	MIN	3.50	2.75	3,60	2.75	4.60	0.75	2.35	1.25	3,50	3,50	
E2	NDM	3,65	4.00	3.70	5.00	4.70	1.70	2.70	2.70	3,65	3.65	
	MAX	3,80	4.10	3,80	5.10	4,80	2,25	3,35	3,25	3,80	3,80	
	MIN	0.35	0.50	0,35	0,50	0,35	0.35	0.45	0.30	0.35	0,35	
L	NDM	0.40	0.55	0,55	0,55	0,55	0.55	0.55	0.40	0,40	0,40	
	MAX	0.45	0.60	0.75	0,60	0.75	0.75	0.75	0.50	0.45	0.45	
	V 🦠	28	32	32	36	36	24	28	32	28	32	7.3
	1D	6	6	6	6	6	7	7	8	7	8	6
N	IE	8	10	10	12	12	5	7	8	7	8	6
	TES	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	
	EF	11-640	11-684	11-684	11-684	11-684	11-534	11-743	11-534	11-640	11-640	
ISS	SUE	F	I	I	I	I	Α	K	Α	F	F	

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TABLE 8E

	e=0.50 PITCH												
VA	RIATION	∨HHD-5	VHHD-6	VHJD	VHKD	VHKD-1	VHKD-2	VTUD	∨TUD-1	VJHD	ΝΩΤΕ		
SYMBOL		WHHD-5	WHHD-6	WHJD	WHKD	WHKD-1	WHKD-2	WTUD	WTUD-1	MUHUW	/VL/ / E		
DE	3SC	5.00	5.00	5.00	5,00	5,00	5.00	5.50	5.50	6,00			
E	3SC	5.00	5.00	6.00	7.00	7.00	7.00	6.50	6.50	5.00			
D1 :	BSC	4.75	_	_	4.75	1	-	5,30	_	5,75	9		
E1 :	BSC	4.75	_	_	6 _. 75	ı		6.30	_	4.75	9		
	MIN	3,20	1.05	2.45	1. 1.	3. 3.	3.10	2.75	3.60	1.75			
D2	M	_	_	3,20	2.70	3 _. 65	3,30	4.00	3.70	3.70			
	MAX	3,70	3,45	3,60	3,25	3,80	3,50	4.10	3,80	4. 4.			
	MIN	3,20	1.05	3,40	2,25	5,50	5.10	2.75	4.60	1,25			
E2	NDM	-	_	4.20	4.70	5,65	5,30	5.00	4.70	2.70			
	MAX	3.70	3,45	4.60	5 5 5	5.80	5.50	5.10	4.80	5 დ. თ.			
	MIN	0.30	0.45	0.35	0.30	0.35	0.30	0.50	0,35	0.35			
	M	0.40	0.50	0.55	0.40	0.40	0,40	0.55	0,55	5. 5.			
	MAX	0,50	0.55	0.75	0 5 0	o.45	5 0.	0.60	0.75	0.75			
N	1	32	32	32	8 3	38	40	40	40	വ	7.3		
N	D	8	8	7	7	7	8	8	8	9	6		
N	E	8	8	9	12	12	12	12	12	7	Ю		
NDI	ΓES	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10			
RE	F	11-666	11-648	11-666	11-534	11-640	11-743	11-684	11-684	11-534			
ISS	SUE	Н	G	Н	Α	F	K	I	I	Α			

TABLE 8F

	e=0.50 PITCH												
VA	RIATION	VJJD-1	VJJD-2	VJJD-3	VJJD-4	VJJD-5	VJJD-6	VJJD-7	VJJD-8	VKHD	N/777		
SYMBOL		WJJD-1	WJJD-2	MJJD-3	WJJD-4	WJJD-5	WJJD-6	WJJD-7	WJJD-8	WKHD	NDTE		
D I	BSC	6,00	6,00	6.00	6,00	6.00	6,00	6.00	6.00	7.00			
E I	BSC	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	5.00			
D1	BSC	5.75	5.75		_	_	_	_	5.75	_	9		
E1	BSC	5.75	5.75		_	_	_	_	5.75	_	9		
	MIN	1.75	1.75	4.10	4.50	4.50	1.05	4.10	80 3	2.25			
D2	NDM	3.70	3,70	4.20	4.65	4.65	_	4.20	ı	-			
	MAX	4. 4.	4.25	4.30	4.80	4.80	4.45	4,30	4.60	5.25			
	MIN	1.75	1.75	4.10	4.50	4.50	1.05	4.10	3. 80	1.25			
E2	NDM	3.70	3.70	4.20	4.65	4.65	_	4.20	ĺ	-			
	MAX	4.25	4.25	4.30	4.80	4.80	4.45	4.30	4.60	3,25			
	MIN	0.35	0.30	0,35	0.35	0,35	0.45	0,35	0.30	0,30			
L L	NDM	0.55	0.40	0.55	0.40	0.40	0.50	0.55	0.40	0.40			
	MAX	0.75	0,50	0.75	0.45	0.45	0,55	0.75	0.50	0.50			
	٧	36	40	38	36	40	40	32	36	38	7.3		
N	D	9	10	10	9	10	10	8	ŋ	12	6		
	E	9	10	9	9	10	10	8	9	7	6		
	TES	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10			
	ΕF	11-534	11-534	11-684	11-640	11-640	11-648	11-684	11-684	11-629			
ISS	SUE	Α	Α	I	F	F	G	I	I	E			

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TABLE 8G

	e=0.50 PITCH											
VA	RIATION	VKKD	VKKD-1	VKKD-2	VKKD-3	VKKD-4	VKKD-5	VKKD-6	VKKD-7	VKKD-8		
SYMBOL		WKKD	WKKD-1	WKKD-2	WKKD-3	WKKD-4	WKKD-5	WKKD-6	WKKD-7	WKKD-8	NDTE	
DI	3SC	7.00	7,00	7.00	7.00	7,00	7.00	7.00	7.00	7.00		
E I	3SC	7.00	7.00	7.00	7,00	7.00	7.00	7.00	7,00	7.00		
D1 :	BSC	_	6.75	6.75	_	_	_	_	_	_	9	
E1 :	BSC	-	6.75	6,75	_	_	_		ı	_	9	
	MIN	5,50	55 2. 2.	2,25	5.50	5,50	3.40	1.25	3.40	5.00		
D2	NDM	5.65	4.70	4.70	5.65	5,65	_	_	-	5.10		
	MAX	5.80	5 5	5,25	5.80	5.80	5,30	5.45	5 _. 30	5.20		
	MIN	5.50	55 2. 2.	2,25	5.50	5,50	3.40	1,25	3.40	5.00		
E2	NDM	5,65	4.70	4.70	5,65	5,65	_	-	ľ	5.10		
	MAX	5.80	5 2 5	5,25	5.80	5.80	5,30	5.45	5.30	5.20		
	MIN	0.35	0.35	0,30	0.35	0,35	0.35	0.45	0.35	0.35		
L	NDM	0.40	0.55	0,40	0.40	0.40	0.55	0.50	0.55	0.55		
	MAX	0.45	0.75	0,50	0.45	0.45	0.75	0.55	0.75	0,75		
	1	40	44	48	44	48	44	48	44	48	7.3	
N	D	10	11	12	11	12	12	12	10	11	6	
N	E	10	11	12	11	12	10	12	12	13	6	
N_1	ΓES	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10		
RE	<u> </u>	11-640	11-534	11-534	11-640	11-640	11-684	11-648	11-684	11-684		
ISS	SUE	F	А	Α	F	F	I	G	I	I		

TABLE 8H

IADL											
				e	0.50 PI	TCH				_	
VA	ARIATION	VLLD	VLLD-1	VLLD-2	VLLD-3	VLLD-4	VLLD-5	VLLD-6	∨MMD	∨MMD-1	
SYMBOL		WLLD	WLLD-1	WLLD-2	WLLD-3	WLLD-4	WLLD-5	WLLD-6	WMMD	WMMD-1	NDTE
DI	3SC	0 0	8,00	8.00	8,00	8.00	8.00	0 0	0 9 9	9.00	
EI	3SC	0 0	8,00	8.00	8,00	О Ф Ф	ω	0	О О	9.00	
	BSC	_	7,75	7.75	_	_	_	_	_	_	9
E1	BSC	_	7.75	7.75	_	-	-	_	_	_	9
	MIN	6,50	2.75	2.75	6.10	6,50	6.50	2,25	7,50	7,50	
D2	NDM	6,65	5.70	5.70	6.20	6.65	6,65		7,65	7,65	
	MAX	6,80	6.25	6.25	6.30	6,80	6,80	6,45	7,80	7.80	
	MIN	6,50	2.75	2.75	6.10	6,50	6.50	2,25	7,50	7,50	
E2	NDM	6.65	5.70	5.70	6.20	6.65	6.65	_	7,65	7,65	
	MAX	6.80	6,25	6.25	6,30	6,80	6.80	6.45	7,80	7,80	
	MIN	0,35	0,35	0.30	0.35	0,35	0.35	0.45	0.35	0.35	
	NDM	0,40	0,55	0.40	0,55	0.40	0.40	0.50	0.40	0,40	
	MAX	0,45	0.75	0,50	0.75	0,45	0.45	0.55	0.45	0.45	
<u> </u>		48	52	56	48	52	56	56	64	60	7.3
N		12	13	14	13	13	14	14	16	15	6
	E	12	13	14	11	13	14	14	16	15	6
	ΓES	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10		1,2,10	1,2,10	1,2,10	
RE		11-640	11-534	11-534	11-684	11-640	11-640		11-640		
ISS	SUE	F	Α	Α	I	F	F	G	F	F	

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PROD	UCT 🗆	JTLIN	ΙE
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TABLE 8I

	e=0.50 PITCH											
VA	RIATION	VMMD-2	VMMD-3	VMMD-4	VNND-1	VNND-2	VNND-3	VNND-4	VRRD		N/777	
SYMBIJL		WMMD-2	WMMD-3	WMMD-4	WNND-1	WNND-2	WNND-3	WNND-4	WRRD		NDTE	
DE	3SC	9,00	9.00	9,00	10,00	10.00	10.00	10.00	12.00			
EE	32C	9,00	9.00	9,00	10,00	10.00	10,00	10.00	12.00			
D1 :	BSC	_	-	8.75	9.75	9.75	_	_	11.75		U	
E1 :	BSC	l	_	8.75	9.75	9.75	1	-	11.75		0	
	MIN	7.50	3,25	6.00	3.75	3.75	4.25	5,50	4.75			
D2 [NDM	7.65	_	ı	7.70	7.70	1	6,00	9,70			
	MAX	7.80	7.45	7.50	8. 8.	8.25	8,45	6.50	10.25			
	MIN	7.50	3,25	6.00	3.75	3.75	4,25	5.50	4.75			
E2	NDM	7.65	_	ı	7.70	7.70	_	6.00	9.70			
	MAX	7.80	7.45	7,50	8.25	8.25	8.45	6.50	10.25			
	MIN	0,35	0.45	0.30	0.45	0.45	0.45	0,30	0.45			
	NDM	0.40	0.50	0.40	0,55	0.55	0.50	0.40	0,55			
	MAX	0.45	0.55	0.50	0.65	0.65	0.55	0.50	0.65			
<u> </u>	-	56	64	64	64	68	72	72	80		7.3	
N		14	16	16	16	17	18	18	20		6	
N		14	16	16	16	17	18	18	20		6	
N□T		1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10			
RE		11-640	11-648	11-684	11-563	11-563	11-648	11-743	11-563			
ISS	UE	F	G	I	В	В	G	К	В			

TABLE 9A

	111222 311										
	e=0.40 PITCH										
V	ARIATION	VEEE	VEEE-1	VGGE	VHHE	VHHE-1	VJJE	VJJE-1	∨GHE	VGHE-1	MOTE
SYMBOL	<u>'</u>	WEEE	WEEE-1	WGGE	WHHE	WHHE-1	WJJE	WJJE-1	WGHE	WGHE-1	NDTE
D 1	BSC	3.00	3,00	4.00	5.00	5.00	6,00	6,00	4.00	4.00	
E :	BSC	3.00	3.00	4.00	5.00	5.00	6.00	6.00	5.00	5.00	
D1	BSC		2.75	3.75	4.75		5.75	5.75	4.75	4.75	9
E1	BSC		2.75	3.75	4.75		5.75	5.75	5.75	5.75	9
	MIN	0,95	0.95	1.95	2.95	3.45	3.95	4.45	2.30	2,30	
D2	NDM	1.10	1.10	2.10	3,10	3,60	4.10	4,60	2.50	2,50	
	MAX	1.25	1.25	2.25	3,25	3.75	4.25	4.75	2.70	2.70	
	MIN	0.95	0.95	1,95	2,95	3.45	3,95	4.45	3,30	3,30	
E2	NDM	1.10	1.10	2.10	3,10	3,60	4.10	4.60	3.50	3,50	
	MAX	1,25	1.25	2,25	3,25	3.75	4.25	4.75	3.70	3,70	
	MIN	0.30	0.30	0,30	0.30	0.30	0,30	0,30	0.30	0.30	
L	NDM	0.40	00	0.40	0.40	0.40	0.40	0.40	0.40	0.40	
	MAX	0 5 0	0.50	0.50	0 5 0	0.50	0 5 0	0 5 0	0.50	0,50	
1	7	20	16	28	3 6	40	48	48	വ	34	7,3
N	ID	5	4	7	ፓ	10	12	12	7	7	6
N	ΙΕ	5	4	7	9	10	12	12	9	10	6
NO	TES	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	
RI	ΕF	11-743	11-743	11-743	11-743	11-743	11-743	11-743	11-743	11-743	
ISS	SUE	K	K	K	K	K	K	К	K	K	

	 THERMALLY ENHANCED PLASTIC VERY THIN	ISSUE	 Dat
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TABLE 9B

	e=0.40 PITCH											
VA	ARIATION	VLLE-1	VLLE-2	VMME	VMME-1	VNNE	VNNE-1	VKKE	VLLE			
SYMBOL		WLLE-1	WLLE-2	WMME	WMME-1	WNNE	WNNE-1	WKKE	WLLE		NDTE	
D E	3SC	8.00	8,00	9,00	9,00	10.00	10.00	7.00	8,00			
EE	3SC	8.00	8,00	9,00	9,00	10.00	10.00	7.00	8,00			
D1 :	BSC	7.75	7.75	8.75	8.75	9.75	9.75	6.75	7.75		9	
E1 :	BSC	7.75	7,75	8.75	8.75	9.75	9.75	6.75	7.75		9	
	MIN	5,95	6,30	6,95	6,95	7.95	6.60	4.95	5.95			
D2 [NDM	6.10	6,45	7.10	7.10	8,10	6.75	5.10	6.10			
	MAX	6,25	6,60	7.25	7.25	8,25	6,90	5,25	6.25			
	MIN	5,95	6,30	6,95	6,95	7.95	6.60	4.95	5.95			
E2 [NDM	6.10	6,45	7.10	7.10	8,10	6.75	5.10	6.10			
	MAX	6,25	6.60	7.25	7.25	8. 8.	6.90	5.25	6 6			
	MIN	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0,30			
	NDM	0.40	0.40	0.40	0.40	0,40	0.40	0.40	0.40			
	MAX	0.50	0 5	0. 0.	5 5	0 5 0	5 5 0	0.50	0 5 0			
N	7	68	64	72	76	88	88	56	64		7.3	
N	D	17	16	18	19	22	22	14	16		6	
N	E	17	16	18	19	22	22	14	16		6	
ΠΠ	ΓES	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10	1,2,10			
RE	F	11-743	11-743	11-743	11-743	11-743	11-743	11-743	11-743			
ISS	SUE	K	K	K	K	K	K	K	K			

TABLE 9C

				e=	0.40 PI	TCH			
VA	ARIATION	VRRE	VRRE-1	VRRE-2					, /7, T.C.
SYMBOL	2	WRRE	WRRE-1	WRRE-2					NDTE
D	BSC	12.00	12.00	12.00					
E :	BSC	12.00	12.00	12.00					
D1	BSC	11.75	11.75	11.75					9
E1	BSC	11.75	11.75	11.75					9
	MIN	55 9. 9.	6.60	9.95					
D2	NDM	10.10	6.75	10.10					
	MAX	10.25	6,90	10,25					
	MIN	9. 9.	6.60	9,95					
E2	NDM	10.10	6.75	10.10					
	MAX	10.25	6,90	10.25					
	MIN	0.30	0.30	0,30					
L	NDM	0.40	0.40	0,40					
	MAX	0.50	0.50	0,50					
1	V	100	100	108					7.3
	ID	25	25	27					6
N	ΙE	25	25	27					6
	TES	1,2,10	1,2,10	1,2,10					
—	EF	11-743	11-743						
ISS	SUE	K	K	K					

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NOTES:

- 1. DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5M-1994.
- 2. ALL DIMENSIONS ARE IN MILLIMETERS, TIS IN DEGREES.
- 3, N IS THE TOTAL NUMBER OF TERMINALS.
- THE TERMINAL #1 IDENTIFIER AND TERMINAL NUMBERING CONVENTION SHALL CONFORM TO JEDEC PUBLICATION 95 SPP-002. DETAILS OF TERMINAL #1 IDENTIFIER ARE OPTIONAL, BUT MUST BE LOCATED WITHIN THE ZONE INDICATED. THE TERMINAL #1 IDENTIFIER MAY BE EITHER A MOLD OR MARKED FEATURE.
- DIMENSION & APPLIES TO METALLIZED TERMINAL AND IS MEASURED BETWEEN 0.15mm AND 0.30mm FROM THE TERMINAL TIP. IF THE TERMINAL HAS THE OPTIONAL RADIUS ON THE OTHER END OF THE TERMINAL, THE DIMENSION & SHOULD NOT BE MEASURED IN THAT RADIUS AREA.
- 6 ND AND NE REFER TO THE NUMBER OF TERMINALS ON EACH D AND E SIDE RESPECTIVELY.
- 7. DEPOPULATION IS POSSIBLE IN A SYMMETRICAL FASHION.
- /8. VARIATION GED IS SHOWN FOR ILLUSTRATION ONLY.
- 9 ALL VARIATIONS MAY BE CONSTRUCTED PER FIGURE 1. VARIATIONS MAY ALTERNATELY BE CONSTRUCTED PER FIGURE 2 IF A2, D1.&E1 ARE SPECIFIED IN THE DIMENSION TABLES. IN ALL CASES, THE MINIMUM "K" VALUE OF 0.20 MM APPLIES.
- 10. FOR A COMPLETE SET OF DIMENSIONS FOR EACH VARIATION, SEE THE INDIVIDUAL VARIATION AND THE COMMON DIMENSIONS AND TOLERANCE ON PAGE 4.
- AS THE TERMINALS.
- 12. DEPENDING ON THE METHOD OF LEAD TERMINATION AT THE EDGE OF THE PACKAGE, PULL BACK (L1) MAYBE PRESENT. L MINUS L1 TO BE EQUAL TO OR GREATER THAN 0.3 mm.

NOTES:

VARIOUS COMPANIES HAVE ISSUED PATENTS AND RELATED PATENT APPLICATIONS THAT MAY APPLY TO THIS REGISTRATION. IF THE CURRENT ISSUE PATENTS OR LATER PATENTS RESULTING FROM RELATED APPLICATIONS DO APPLY, THESE COMPANIES INTEND TO COMPLY WITH THE JEDEC PATENT POLICY AND LICENSE UNDER REASONABLE TERMS AND CONDITIONS THAT ARE DEMONSTRABLY FREE OF ANY UNFAIR DISCRIMINATION. REFERENCED PATENTS ARE AS FOLLOWS.

	U.S. PATENT #s: 5,866,939; 6,143,981; 6,281,568; 6,331,451;					
	6,433,277; 6,448,633; 6,455,356; 6,469,369; 6,475,827;					
AMKOR TECHNOLOGY	6,476,478; 6,501,161; 6,521,987; 6,525,406; 6,545,345;					
APPINIER FECTIVALIST	6,555,899; 6,580,159; 6,597,059; 6,605,865; 6,605,866;					
	6,608,366; 6,611,047; 6,616,436; 6,627,976; 6,630,728;					
	6,639,308; 6,646,339; 6,677,662; 6,677,663; 6,684,496					
	6,759,737; 6,770,961; 6,777,789; 6,798,047; 6,803,645; 6,825,062;					
	[6,833,609; 6,841,414; 6,847,009; 6,847,103; 6,853,059; 6,853,919					
	6,867,071; 6,873,032; 6,885,086; 6,893,900					
ASAT	U.S. PATENT #'S: 6,229,200B1; 6,242,281B1; 6,294,100B1;					
	6,545,347B2; 6,585,905B1					
NATIONAL SEMICONDUCTOR	U.S. PATENT No. 6,130,473; 6,589,814; 6,483,180; 6,452,255;					
	6,399,415; 6,372,539; 6,551,048; 6,576,989; 6,488,107;					
	6,564,447; 6,629,880;					

14. WHEN MORE THAN ONE VARIATION (OPTION) EXISTS FOR THE SAME PROFILE HEIGHT, BODY SIZE (D x E), AND PITCH, THEN THOSE VARIATIONS WILL BE DENOTED BY AN ADDITIONAL DASH NUMBER (ie: -1, -2, etc.) DESIGNATOR TO IDENTIFY THEM. THE NEW VARIATIONS WOULD BE CREATED FROM ALL OR ANY OF THE FOLLOWING REASONS LEAD COUNTS, TERMINAL LENGTHS, AND OR THERMAL PAD SIZES.

Change Record

If the changes involves any words added or deleted (excluding deletion of accidentally repeated words), the change is included. Punctuation changes may or may not be included.

Initial Is	ssue: A Date:	January 2000	Item: 11-534
•	•		

Revision History:

(Issues b thru I exact Revision History not available)

Issue:	J		Date:	MAY	2005			Item:	11-705	
		Loca	tion			Change	description	•		

Location	Change description:				
TABLE 3	Added b values for 0.4mm pitch				
TABLE 5a,b,c	Added listings for 0.4mm variations				
TABLE 9a,b	Added dimensions for new 0.4mm variations				

Issue:K	Date: January 2006	tem: 11-743
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Location	Change from:	Change to:
Variations & Summary	(add new variations)	(V/W) GGC-2, KMC, LLC-4, MMC-3,EED-5/6,GGD-8/11,
tables		HHD-1,HKD-2,NND-4,EEE-1,LLE-1/2,MME-1,NNE-1
	X.O	RRE-1/2,GHE,GHE-1
TABLES 9 A,B,C	L= 0.35/0.40/0.45	L=0.30/0.40/0.50
PAGES 1 AND 2	BILATERAL COPLANARITY	UNILATERAL COPLANARITY
PAGE 4 - TABLE 2	L1 MIN=0.03	L1 MIN=0.00
PAGE 4 - TABLE 4	NEW VALUES	aaa & bbb for 0.40 PITCH
PAGE 19	ADD ADDITIONAL PATENT N	NUMBERS

Issue: K.01	Date: Aug. 2011	Item:11.743(E)
		·

Location	Change from:	Change to:
ALL PAGES	NON-EXISTENT	ADDED JEDEC COPYRIGHT STATEMENT
SHEET 7 TABLE 5C (LEAD COUNTS FOR 12X12 0.4MM PITCH MODIFIED TO MATCH TABLE 9C)	VRRE, VRRE-2 = 100L WRRE, WRRE-2 = 100L VRRE-1, WRRE-1 = 108L	VRRE, VRRE-1 = 100L WRRE, WRRE-1 = 100L VRRE-2, WRRE-2 = 108L

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