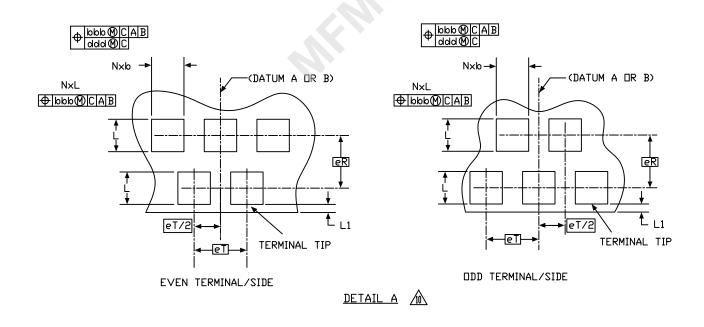


2-ROW WITH RING BOTTOM VIEW



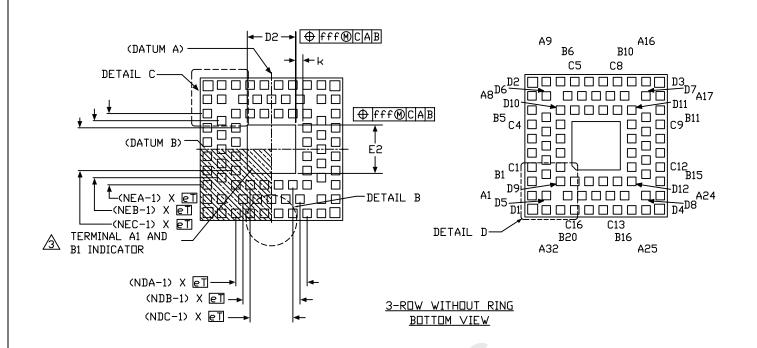
JEDEC SOLID STATE PRODUCT OUTLINE PLASTIC QUAD ND-LEAD STAGGERED MULTI-RDW PACKAGES

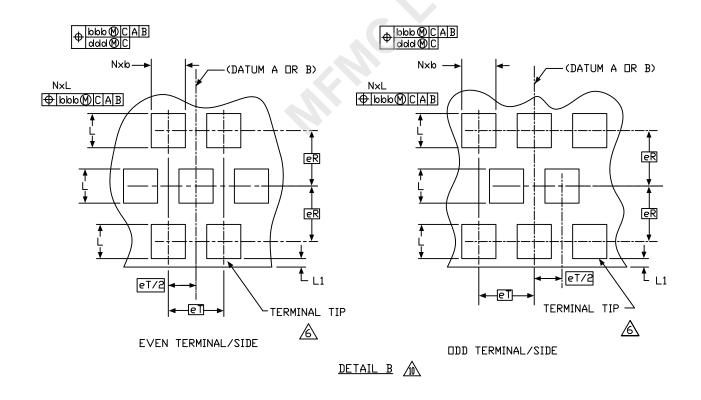
ISSUE

DATE MAY 2007

MD-247

SHEET 2 OF 12





JEDEC SOLID STATE PRODUCT OUTLINE PLASTIC QUAD ND-LEAD STAGGERED MULTI-RDW PACKAGES

ISSUE D

DATE MAY 2007

MD-247

SHEET 3 OF 12

TABLE 1

VARIATION DESIGNATORS									
FIRST DIGIT		THIRD DIGIT CODE FOURTH DIGIT CODE FIFTH DIGIT CODE							
TERMINAL CONFI	TGURATION	□VERALL	HEIGHT	BODY L	LENGTH	BODY WIDTH TERMINAL PI			L PITCH
_	LETTER CODE	Α	LETTER CODE	D	LETTER CODE	E	LETTER CODE	eТ	LETTER CODE
2-R0W	A	1.00 MAX.	V	1.0	A	1.0	A	0.65	A
2-ROW + RING	В	0.80 MAX.	W	1.5	В	1.5	В	0.50	В
3-R0W	С	0.65 MAX.	U	2.0	С	2.0	С	0.40	С
_	-	_	-	2.5	D	2.5	D	_	_
_	_	_	_	3.0	E	3.0	E	_	_
_	_	_	_	3.5	F	3.5	F	_	_
_	_	_	_	4.0	G	4.0	G	_	_
_	-	_	_	4.5	Н	4.5	Н	_	-
_	_	_	_	5.0	J	5.0	J	_	-
_	_	_	_	6.0	K	6.0	K	_	_
_	_	_	_	7.0	L	7.0	L	_	_
_	_	_	_	8.0	М	8.0	М	_	_
_	_	_	_	9.0	N	9.0	N	_	-
_	_	_	_	10.0	Р	10.0	Р	_	-
_	_	_	_	11.0	Q	11.0	Q	_	1
_	1			12.0	R	12.0	R	-	1
_	1	-	-	13.0	S	13.0	S	1	1
_	ı	1	1	14.0	T	14.0	T	ı	1
_	-	_	_	15.0	1 U	15.0	U	_	_
_	-	_	-	16.0	٧	16.0	٧	-	_
_	1	_	-	17.0	W	17.0	W	-	_
_	-	_		18.0	Υ	18.0	Y	_	_
_	-	_	-//	19.0	Z	19.0	Z	_	_

TABLE 2

	TERMINAL PITCH eT									
SYMBOL	(0.65 BS	SC		0.50 BS	С	(0.40 BSC		
STMBOL	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	
b	0.35	-	0.45	0.25	_	0.35	0.15	-	0.25	
L	0.35	ı	0.45	0.25	_	0.35	0.20	ı	0.30	
eR	C	.65 BS0			0.50 BSC	,	0.50 BSC			
NOTES					1,2,10	١				
REF	11-767									
ISSUE		D								

JEDEC SOLID STATE PRODUCT OUTLINE	PLASTIC QUAD NO-LEAD STAGGERED MULTI-ROW PACKAGES	ISSUE D	DATE MAY 2007	MD-247	SHEET 4 OF 12
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OFFICE PROPERTY									
COMMON DIMENSIONS									
SYMBOL	V: VERY THIN			W: VE	RY VER	Y THIN	U:	ULTRA	THIN
STWIDOL	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX
Α	0.80	0.90	1.00	0.70	0.75	0.80	0.55	0.60	0.65
A1	0.00	-	0.13	0.00	ı	0.13	0.00	1	0.13
d	0.25	_	0.35	0.25	-	0.35	0.25	-	0.35
k	0.20	_	-	0.20	ı	-	0.20	1	_
L1	0.05	-	0.15	0.05	ı	0.15	0.05	1	0.15
TOLERANCE OF FORM & POSITION									
aaa		0.15							
bbb			0.10 (0.07 fc	or eT =0	.40 mm))		
ccc					0.10				
ddd					0.05				
eee					0.08				
fff					0.10				
NOTES					1,2	·			
REF				11-63	9,11-72	1, 11–76	57		
ISSUE					D				

	SUMMAR	RY TABLE	e for twi] ROW	
BODY SIZE	LEAD PITCH	LEAD COUNT	VERY THIN PROFILE	VERY VERY THIN PROFILE	ULTRA THIN PROFILE
7.00 X 7.00	0.40	116	AVLLC	AWLLC	AULLC
	0.50	92	AVLLB	AWLLB	AULLB
	0.65	68	AVLLA	AWLLA	AULLA
8.00 X 8.00	0.40	132	AVMMC	AWMMC	AUMMC
	0.50	108	AVMMB	AWMMB	AUMMB
	0.65	76	AVMMA	AWMMA	AUMMA
9.00 X 9.00	0.40	156	AVNNC	AWNNC	AUNNC
	0.50	124	AVNNB	AWNNB	AUNNB
	0.65	92	AVNNA	AWNNA	AUNNA
10.00 X 10.00	0.40	172	AVPPC	AWPPC	AUPPC
	0.50	140	AVPPB	AWPPB	AUPPB
	0.65	100	AVPPA	AWPPA	AUPPA
11.00 X 11.00	0.40	196	AVQQC	AWQQC	AUQQC
	0.50	156	AVQQB	AWQQB	AUQQB
	0.65	116	AVQQA	AWQQA	AUQQA
12.00 X 12.00	0.40	212	AVRRC	AWRRC	AURRC
	0.50	172	AVRRB	AWRRB	AURRB
	0.65	124	AVRRA	AWRRA	AURRA
13.00 X 13.00	0.40	236	AVSSC	AWSSC	AUSSC
	0.50	188	AVSSB	AWSSB	AUSSB
	0.65	140	AVSSA	AWSSA	AUSSA
14.00 X 14.00	0.40	252	AVTTC	AWTTC	AUTTC
	0.50	204	AVTTB	AWTTB	AUTTB
	0.65	148	AVTTA	AWTTA	AUTTA
15.00 X 15.00	0.40	276	AVUUC	AWUUC	AUUUC
	0.50	220	AVUUB	AWUUB	AUUUB
	0.65	164	AVUUA	AWUUA	AUUUA



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SOLID	STATE						
PRODUCT	DUTLINE						

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S	SUMMARY	TABLE F	OR TWO F	ROW + RIN	G	
BODY SIZE	BODY SIZE LEAD PITCH L		VERY THIN PROFILE	VERY VERY THIN PROFILE	ULTRA THIN PROFILE	
7.00 X 7.00	0.40	116	BVLLC	BWLLC	BULLC	
	0.50	92	BVLLB	BWLLB	BULLB	
	0.65	68	BVLLA	BWLLA	BULLA	
8.00 X 8.00	0.40	132	BVMMC	BWMMC	BUMMC	
	0.50	108	BVMMB	BWMMB	BUMMB	
	0.65	76	BVMMA	BWMMA	BUMMA	
9.00 X 9.00	0.40	156	BVNNC	BWNNC	BUNNC	
	0.50	124	BVNNB	BWNNB	BUNNB	
	0.65	92	BVNNA	BWNNA	BUNNA	
10.00 X 10.00	0.40	172	BVPPC	BWPPC	BUPPC	
	0.50	140	BVPPB	BWPPB	BUPPB	
	0.65	100	BVPPA	BWPPA	BUPPA	
11.00 X 11.00	0.40	196	BVQQC	BWQQC	BUQQC	
	0.50	156	BVQQB	BWQQB	BUQQB	
	0.65	116	BVQQA	BWQQA	BUQQA	
12.00 X 12.00	0.40	212	BVRRC	BWRRC	BURRC	
	0.50	172	BVRRB	BWRRB	BURRB	
	0.65	124	BVRRA	BWRRA	BURRA	
13.00 X 13.00	0.40	236	BVSSC	BWSSC	BUSSC	
	0.50	188	BVSSB	BWSSB	BUSSB	
	0.65	140	BVSSA	BWSSA	BUSSA	
14.00 X 14.00	0.40	252	BVTTC	BWTTC	BUTTC	
	0.50	204	BVTTB	BWTTB	BUTTB	
	0.65	148	BVTTA	BWTTA	BUTTA	
15.00 X 15.00	0.40	276	BVUUC	BWUUC	BUUUC	
	0.50	220	BVUUB	BWUUB	BUUUB	
	0.65	164	BVIIIA	RWIIIA	RUUUA	



	SUMMARY	TABLE	FOR THRE	E ROW	
BODY SIZE	LEAD PITCH	LEAD COUNT	VERY THIN PROFILE	VERY VERY THIN PROFILE	ULTRA THIN PROFILE
7.00 X 7.00	0.40	156	CVLLC	CWLLC	CULLC
	0.50	128	CVLLB	CWLLB	CULLB
8.00 X 8.00	0.40	180	CVMMC	СМММС	СИММС
	0.50	152	CVMMB	СМММВ	СИММВ
9.00 X 9.00	0.40	216	CVNNC	CWNNC	CUNNC
	0.50	176	CVNNB	CWNNB	CUNNB
10.00 X 10.00	0.40	240	CVPPC	CWPPC	CUPPC
	0.50	200	CVPPB	CWPPB	CUPPB
11.00 X 11.00	0.40	276	CVQQC	CWQQC	CUQQC
	0.50	224	CVQQB	CWQQB	CUQQB
12.00 X 12.00	0.40	300	CVRRC	CWRRC	CURRC
	0.50	248	CVRRB	CWRRB	CURRB
13.00 X 13.00	0.40	336	CVSSC	CWSSC	CUSSC
	0.50	272	CVSSB	CWSSB	CUSSB
14.00 X 14.00	0.40	360	CVTTC	CWTTC	CUTTC
	0.50	296	CVTTB	CWTTB	CUTTB
15.00 X 15.00	0.40	396	CVUUC	CWUUC	CUUUC
	0.50	320	CVUUB	CWUUB	CUUUB



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SOLID	STATE
>BUNICT	THIT INF

TABLE 7

$\overline{\text{eT}} = 0.40 \text{mm} \text{ PITCH}, (2 \text{ ROW})$											
VARI	IATION	AVLLC	AVMMC	AVNNC	AVPPC	AVQQC	AVRRC	AVSSC	AVTTC	AVUUC	
\ \tag{\tag{\tag{\tag{\tag{\tag{\tag{		AWLLC	AWMMC	AWNNC	AWPPC	AWQQC	AWRRC	AWSSC	AWTTC	AWUUC	NOTE
SYMBOL		AULLC	AUMMC	AUNNC	AUPPC	AUQQC	AURRC	AUSSC	AUTTC	AUUUC	
D BS	C.	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	
E BS0	C.	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	
	MIN	4.75	5.75	6.75	7.75	8.75	9.75	10.75	11.75	12.75	
D2	NOM	4.80	5.80	6.80	7.80	8.80	9.80	10.80	11.80	12.80	
	MAX	4.85	5.85	6.85	7.85	8.85	9.85	10.85	11.85	12.85	
	MIN	4.75	5.75	6.75	7.75	8.75	9.75	10.75	11.75	12.75	
E2	NOM	4.80	5.80	6.80	7.80	8.80	9.80	10.80	11.80	12.80	
	MAX	4.85	5.85	6.85	7.85	8.85	9.85	10.85	11.85	12.85	
	MIN	_	_	_	_	_	_	_	_	_	
D3	NOM	_	_	_	_	_	_	_	1	_	
	MAX	_	_	_	_	_	_	_	_	_	
	MIN	_	_	_	_	_	_	_	_	_	
E3	NOM	_	_	_	_	_	_	_	-	_	
	MAX	_	_	_	_	_	_	-	-	_	
N		116	132	156	172	196	212	236	252	276	
NDA		15	17	20	22	25	27	30	32	35	
NDB	3	12	14	17	19	22	24	27	29	32	
NEA		15	17	20	22	25	27	30	32	35	
NEB	}	12	14	17	19	22	24	27	29	32	
NOTE	S	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
REF		11-746									
ISSU	E					С					

				eT =	0.40mm	PITCH,	(2 ROW	+ RING)			
VARI	ATION	BVLLC	BVMMC	BVNNC	BVPPC	BVQQC	BVRRC	BVSSC	BVTTC	BVQQC	
	_	BWLLC	BWMMC	BWNNC	BWPPC	BWQQC	BWRRC	BWSSC	BWTTC	BWQQC	NOTE
SYMBOL	$\overline{}$	BULLC	виммс	BUNNC	BUPPC	BUQQC	BURRC	BUSSC	BUTTC	BUQQC	
D BS	C.	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	
E BS	C.	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	
	MIN	3.65	4.65	5.65	6.65	7.65	8.65	9.65	10.65	11.65	
D2	NOM	3.70	4.70	5.70	6.70	7.70	8.70	9.70	10.70	11.70	
	MAX	3.75	4.75	5.75	6.75	7.75	8.75	9.75	10.75	11.75	
	MIN	3.65	4.65	5.65	6.65	7.65	8.65	9.65	10.65	11.65	
E2	NOM	3.70	4.70	5.70	6.70	7.70	8.70	9.70	10.70	11.70	
	MAX	3.75	4.75	5.75	6.75	7.75	8.75	9.75	10.75	11.75	
	MIN	4.75	5.75	6.75	7.75	8.75	9.75	10.75	11.75	12.75	
D3	NOM	4.80	5.80	6.80	7.80	8.80	9.80	10.80	11.80	12.80	
	MAX	4.85	5.85	6.85	7.85	8.85	9.85	10.85	11.85	12.85	
	MIN	4.75	5.75	6.75	7.75	8.75	9.75	10.75	11.75	12.75	
E3	NOM	4.80	5.80	6.80	7.80	8.80	9.80	10.80	11.80	12.80	
	MAX	4.85	5.85	6.85	7.85	8.85	9.85	10.85	11.85	12.85	
N	•	116	132	156	172	196	212	236	252	276	
NDA	\	15	17	20	22	25	27	30	32	35	
NDE	}	12	14	17	19	22	24	27	29	32	
NEA		15	17	20	22	25	27	30	32	35	
NEE		12	14	17	19	22	24	27	29	32	
NOTE		1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
REF						11-746		,	,	, , , , , , , , , , , , , , , , , , ,	
ISSU						С					

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SOLID	STATE
PRODUCT	DUTLINE

TABLE 9

				eT	= 0.50 m	m PITCH	i, (2 RO	W)			
VAR	IATION	AVLLB	AVMMB	AVNNB	AVPPB	AVQQB	AVRRB	AVSSB	AVTTB	AVUUB	
			AWMMB	AWNNB	AWPPB	AWQQB	AWRRB	AWSSB	AWTTB	AWUUB	NOTE
SYMBOL		AULLB	AUMMB	AUNNB	AUPPB	AUQQB	AURRB	AUSSB	AUTTB	AUUUB	
D BS	C.	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	
E BS	C.	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	
	MIN	4.65	5.65	6.65	7.65	8.65	9.65	10.65	11.65	12.65	
D2	NOM	4.70	5.70	6.70	7.70	8.70	9.70	10.70	11.70	12.70	
	MAX	4.75	5.75	6.75	7.75	8.75	9.75	10.75	11.75	12.75	
	MIN	4.65	5.65	6.65	7.65	8.65	9.65	10.65	11.65	12.65	
E2	NOM	4.70	5.70	6.70	7.70	8.70	9.70	10.70	11.70	12.70	
	MAX	4.75	5.75	6.75	7.75	8.75	9.75	10.75	11.75	12.75	
	MIN	-	-	_	_	_	-	_	_	_	
D3	NOM	_	_	_	_	_	_	_	_	_	
	MAX	_	_	_	_	_	_	_	_	_	
	MIN	_	_	_	_	_	-	_	-	_	
E3	NOM	_	_	_	-	_	=	_	-	_	
	MAX	_	_	_	_	_	_	_	-	_	
N		92	108	124	140	156	172	188	204	220	
NDA		12	14	16	18	20	22	24	26	28	
NDB	3	9	11	13	15	17	19	21	23	25	
NEA		12	14	16	18	20	22	24	26	28	
NEB	1	9	11	13	15	17	19	21	23	25	
NOTE	S	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
REF			•		•	11-74		1	•		
ISSU	E					С					

				eT =	0.50mm	PITCH, ((2 ROW -	+ RING)			
VAR	IATION	BVLLB	BVMMB	BVNNB	BVPPB	BVQQB	BVRRB	BVSSB	BVTTB	BVUUB	
	_	BWLLB	BWMMB	BWNNB	BWPPB	BWQQB	BWRRB	BWSSB	BWTTB	BWUUB	NOTE
SYMBOL		BULLB	BUMMB	BUNNB	BUPPB	BUQQB	BURRB	BUSSB	BUTTB	BUUUB	
D BSC.		7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	
E BSC.		7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	
	MIN	3.55	4.55	5.55	6.55	7.55	8.55	9.55	10.55	11.55	
D2	NOM	3.60	4.60	5.60	6.60	7.60	8.60	9.60	10.60	11.60	
	MAX	3.65	4.65	5.65	6.65	7.65	8.65	9.65	10.65	11.65	
	MIN	3.55	4.55	5.55	6.55	7.55	8.55	9.55	10.55	11.55	
E2	NOM	3.60	4.60	5.60	6.60	7.60	8.60	9.60	10.60	11.60	
	MAX	3.65	4.65	5.65	6.65	7.65	8.65	9.65	10.65	11.65	
	MIN	4.65	5.65	6.65	7.65	8.65	9.65	10.65	11.65	12.65	
D3	NOM	4.70	5.70	6.70	7.70	8.70	9.70	10.70	11.70	12.70	
	MAX	4.75	5.75	6.75	7.75	8.75	9.75	10.75	11.75	12.75	
	MIN	4.65	5.65	6.65	7.65	8.65	9.65	10.65	11.65	12.65	
E3	NOM	4.70	5.70	6.70	7.70	8.70	9.70	10.70	11.70	12.70	
	МАХ	4.75	5.75	6.75	7.75	8.75	9.75	10.75	11.75	12.75	
N		92	108	124	140	156	172	188	204	220	
NDA		12	14	16	18	20	22	24	26	28	
NDB	3	9	11	13	15	17	19	21	23	25	
NEA		12	14	16	18	20	22	24	26	28	
NEB	}	9	11	13	15	17	19	21	23	25	
NOTE	S	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
REF		,	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	11-7		,-			
ISSU						С					
10002											

JEI	DEC
SOLID	STATE
PRODUCT	DUTLINE

TABLE 11

				eT =	0.65mm	PITCH,	(2 ROW)				
VAR	IATION	AVLLA	AVMMA	AVNNA	AVPPA	AVQQA	AVRRA	AVSSA	AVTTA	AVUUA	
			AWMMA	AWNNA	AWPPA	AWQQA	AWRRA	AWSSA	AWTTA	AWUUA	NOTE
SYMBOL		AULLA	AUMMA	AUNNA	AUPPA	AUQQA	AURRA	AUSSA	AUTTA	AUUUA	
D BS	SC.	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	
E BS	SC.	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	
	MIN	4.15	5.15	6.15	7.15	8.15	9.15	10.15	11.15	12.15	
D2	NOM	4.20	5.20	6.20	7.20	8.20	9.20	10.20	11.20	12.20	
	MAX	4.25	5.25	6.25	7.25	8.25	9.25	10.25	11.25	12.25	
	MIN	4.15	5.15	6.15	7.15	8.15	9.15	10.15	11.15	12.15	
E2	NOM	4.20	5.20	6.20	7.20	8.20	9.20	10.20	11.20	12.20	
	MAX	4.25	5.25	6.25	7.25	8.25	9.25	10.25	11.25	12.25	
	MIN	_	_	_	_	_	_	_	_	-	
D3	NOM	_	_	_	_	_	_	_	-	_	
	MAX	_	_	-	-	-	-	_	-	_	
	MIN	_	_	-	_	-	-	_	-	_	
E3	NOM	_	_	_	_	_	_	_	-	_	
	MAX	_	_	_	_	_	_	_	_	_	
N	•	68	76	92	100	116	124	140	148	164	
NDA	\	9	10	12	13	15	16	18	19	21	
NDE	3	6	7	9	10	12	13	15	16	18	
NEA		9	10	12	13	15	16	18	19	21	
NEB	3	6	7	9	10	12	13	15	16	18	
NOTE	:S	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
REF					1	1-746		1		•	
ISSU	E					С					
L							-				

D BSC. 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 E BSC. 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 D2 MIN 3.05 4.05 5.05 6.05 7.05 8.05 9.05 10.05 11.05 NOM 3.10 4.10 5.10 6.10 7.10 8.10 9.10 10.10 11.10 MAX 3.15 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 E2 MIN 3.05 4.05 5.05 6.05 7.05 8.05 9.05 10.05 11.05 MAX 3.15 4.15 5.15 6.15 7.15 8.15 9.15 10.05 11.05 MAX 3.15 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 D3 MIN 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 12.15	IADLE I	IADLE 12										
BWLLA BWMMA BWNNA BWPPA BWQQA BWRRA BWSSA BWTTA BWUUA BULLA BUMMA BUNNA BWPPA BWQQA BWRRA BWSSA BWTTA BWUUA D BSC. 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00				eТ	= 0.65	mm PITC	H, (2 R	OW + RI	NG)			
BWLLA BWMMA BWNNA BWPPA BWQQA BWRRA BWSSA BWTTA BWUUA BULLA BUMMA BUNNA BWPPA BWQQA BWRRA BWSSA BWTTA BWUUA BWDUA BWSSA BWTTA BWUUA BWSSA BWSSA BWTTA BWUUA BWSSA BWSSA BWTTA BWUUA BWSSA BWTA BWUUA TA	VAR	IATION	BVLLA	BVMMA	BVNNA	BVPPA	BVQQA	BVRRA	BVSSA	BVTTA	BVUUA	
D BSC. 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 E BSC. 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 MIN 3.05 4.05 5.05 6.05 7.05 8.05 9.05 10.05 11.05 NOM 3.10 4.10 5.10 6.10 7.10 8.10 9.10 10.10 11.10 MAX 3.15 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 MIN 3.05 4.05 5.05 6.05 7.05 8.05 9.05 10.05 11.05 E2 MOM 3.10 4.10 5.10 6.10 7.10 8.10 9.10 10.10 11.10 MAX 3.15 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 D3 MIN 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 12.15	_		BWLLA		BWNNA		BWQQA			BWTTA	BWUUA	NOTE
E BSC. 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 D2 MIN 3.05 4.05 5.05 6.05 7.05 8.05 9.05 10.05 11.05 NOM 3.10 4.10 5.10 6.10 7.10 8.10 9.10 10.10 11.10 MAX 3.15 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 E2 MIN 3.05 4.05 5.05 6.05 7.05 8.05 9.05 10.05 11.05 MAX 3.15 4.10 5.10 6.10 7.10 8.10 9.10 10.10 11.10 MAX 3.15 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 D3 MIN 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 12.15 D3 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.20 11.20	SYMBOL			BUMMA	BUNNA	BWPPA	BWQQA	BWRRA	BWSSA	BWTTA	BWUUA	
D2 MIN 3.05 4.05 5.05 6.05 7.05 8.05 9.05 10.05 11.05 NOM 3.10 4.10 5.10 6.10 7.10 8.10 9.10 10.10 11.10 MAX 3.15 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 MIN 3.05 4.05 5.05 6.05 7.05 8.05 9.05 10.05 11.05 NOM 3.10 4.10 5.10 6.10 7.10 8.10 9.10 10.10 11.10 MAX 3.15 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 MIN 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 12.15 D3 MAX 4.20 5.20 6.20 7.20 8.20 9.20 10.20 11.20 12.25 MAX 4.25 5.25	D BSC.		7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	
D2 NOM 3.10 4.10 5.10 6.10 7.10 8.10 9.10 10.10 11.10 MAX 3.15 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 NOM 3.05 4.05 5.05 6.05 7.05 8.05 9.05 10.05 11.05 NOM 3.10 4.10 5.10 6.10 7.10 8.10 9.10 10.10 11.10 MAX 3.15 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 NOM 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 12.15 NOM 4.20 5.20 6.20 7.20 8.20 9.20 10.20 11.20 12.20 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 NOM 4.20 5.20 6.20 7.20 8.20 9.20 10.20 11.20 12.20 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 NOM 4.20 5.20 6.20 7.20 8.20 9.20 10.20 11.20 12.20 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 NOM 4.20 5.20 6.20 7.20 8.20 9.20 10.20 11.20 12.20 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 NOM 4.20 5.20 6.20 7.20 8.20 9.20 10.20 11.20 12.20 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 NOM 4.20 5.20 6.20 7.20 8.20 9.20 10.20 11.20 12.20 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 NOM 4.20 5.20 6.20 7.20 8.20 9.20 10.20 11.20 12.20 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 NOM 68 76 92 100 116 124 140 148 164 NDA 9 10 12 13 15 16 18 19 21 NDB 6 7 9 10 12 13 15 16 18 19 21 NDB 6 7 9 10 12 13 15 16 18 NEA 9 10 12 13 15 16 18 NEA 9 10 12 13 15 16 18 NEB 6 7 9 10 12 13 15 16 18 NDTES 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2	E BS	SC.	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	
MAX 3.15 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 MIN 3.05 4.05 5.05 6.05 7.05 8.05 9.05 10.05 11.05 NOM 3.10 4.10 5.10 6.10 7.10 8.10 9.10 10.10 11.10 MAX 3.15 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 MIN 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 MIN 4.20 5.20 6.20 7.20 8.20 9.20 10.20 11.20 12.20 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 MIN 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 12.25 E3 MIN 4.20 5.20 6.20 7.20		MIN	3.05	4.05	5.05	6.05	7.05	8.05	9.05	10.05	11.05	
E2 MIN 3.05 4.05 5.05 6.05 7.05 8.05 9.05 10.05 11.05 MAX 3.10 4.10 5.10 6.10 7.10 8.10 9.10 10.10 11.10 MAX 3.15 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 MIN 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 12.15 MAX 4.20 5.20 6.20 7.20 8.20 9.20 10.20 11.20 12.20 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 MIN 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 12.15 MAX 4.20 5.20 6.20 7.20 8.20 9.20 10.20 11.20 12.20 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 MAX 4.26 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 MAX 4.26 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 MAX 4.26 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 MAX 4.26 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 MAX 4.26 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 MAX 4.26 5.26 6.25 7.25 8.25 9.25 10.25 11.25 12.25 MAX 4.26 5.26 6.25 7.25 8.25 9.25 10.25 11.25 12.25 MAX 4.26 5.26 6.25 7.25 8.25 9.25 10.25 11.25 12.25 MAX 4.26 5.26 6.25 7.25 8.25 9.25 10.25 11.25 12.25 MAX 4.26 5.26 6.25 7.25 8.25 9.25 10.25 11.25 12.25 MAX 4.26 5.26 6.25 7.25 8.25 9.25 10.25 11.25 12.25 MAX 4.26 5.26 6.25 7.25 8.25 9.25 10.25 11.25 12.25 MAX 4.26 4.	D2	NOM	3.10	4.10	5.10	6.10	7.10	8.10	9.10	10.10	11.10	
E2 NOM 3.10 4.10 5.10 6.10 7.10 8.10 9.10 10.10 11.10 MAX 3.15 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 12.15 NOM 4.20 5.20 6.20 7.20 8.20 9.20 10.20 11.20 12.20 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.15 12.15 NOM 4.20 5.20 6.20 7.20 8.20 9.20 10.20 11.20 12.25 MIN 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 12.15 NOM 4.20 5.20 6.20 7.20 8.20 9.20 10.20 11.20 12.20 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 NOM 4.20 5.20 6.20 7.20 8.20 9.20 10.20 11.20 12.20 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 NOM 68 76 92 100 116 124 140 148 164 NDA 9 10 12 13 15 16 18 19 21 NDB 6 7 9 10 12 13 15 16 18 19 21 NEA 9 10 12 13 15 16 18 19 21 NEB 6 7 9 10 12 13 15 16 18 19 21 NEB 6 7 9 10 12 13 15 16 18 NOTES 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 REF		MAX	3.15	4.15	5.15	6.15	7.15	8.15	9.15	10.15	11.15	
MAX 3.15 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 MIN 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 NOM 4.20 5.20 6.20 7.20 8.20 9.20 10.20 11.20 12.20 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 MIN 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 12.15 NOM 4.20 5.20 6.20 7.20 8.20 9.20 10.20 11.20 12.20 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 N 68 76 92 100 116 124 140 148 164 NDA 9 10 12 13 15 16 18 19 21 NDB 6 7 9 10 12 13 15 16 18 19 21 NEA 9 10 12 13 15 16 18 19 21 NEB 6 7 9 10 12 13 15 16 18 19 21 NEB 6 7 9 10 12 13 15 16 18 19 21 NEB 6 7 9 10 12 13 15 16 18 19 21 NEB 10 12 13 15 16 18 19 21 NEB 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		MIN	3.05	4.05	5.05	6.05	7.05	8.05	9.05	10.05	11.05	
MIN	E2	NOM	3.10	4.10	5.10	6.10	7.10	8.10	9.10	10.10	11.10	
D3 NOM 4.20 5.20 6.20 7.20 8.20 9.20 10.20 11.20 12.20 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 MIN 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 12.15 NOM 4.20 5.20 6.20 7.20 8.20 9.20 10.20 11.20 12.20 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 NDA 68 76 92 100 116 124 140 148 164 NDB 6 7 9 10 12 13 15 16 18 19 21 NEB 6 7 9 10 12 13 15 16 18 NOTES 1,2 1,2 1,2 1,2		MAX	3.15	4.15	5.15	6.15	7.15	8.15	9.15	10.15	11.15	
MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 MIN 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 12.15 NOM 4.20 5.20 6.20 7.20 8.20 9.20 10.20 11.20 12.20 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 NDA 68 76 92 100 116 124 140 148 164 NDA 9 10 12 13 15 16 18 19 21 NBB 6 7 9 10 12 13 15 16 18 19 21 NEB 6 7 9 10 12 13 15 16 18 19 21 NOTES 1,2 1,2 1,2 1,2		MIN	4.15	5.15	6.15	7.15	8.15	9.15	10.15	11.15	12.15	
MIN 4.15 5.15 6.15 7.15 8.15 9.15 10.15 11.15 12.15 NOM 4.20 5.20 6.20 7.20 8.20 9.20 10.20 11.20 12.20 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 N 68 76 92 100 116 124 140 148 164 NDA 9 10 12 13 15 16 18 19 21 NDB 6 7 9 10 12 13 15 16 18 19 21 NEA 9 10 12 13 15 16 18 19 21 NEB 6 7 9 10 12 13 15 16 18 19 21 NEB 10 12 13 15 16 18 19 21 NEB 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D3	NOM	4.20	5.20	6.20	7.20	8.20	9.20	10.20	11.20	12.20	
E3 NOM 4.20 5.20 6.20 7.20 8.20 9.20 10.20 11.20 12.20 MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 N 68 76 92 100 116 124 140 148 164 NDA 9 10 12 13 15 16 18 19 21 NDB 6 7 9 10 12 13 15 16 18 19 21 NEA 9 10 12 13 15 16 18 19 21 NEB 6 7 9 10 12 13 15 16 18 19 21 NEB 6 7 9 10 12 13 15 16 18 19 21 NEB 10 12 13 15 16 18 19 21 NEB 10 12 13 15 16 18 NOTES 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 REF		MAX	4.25	5.25	6.25	7.25	8.25	9.25	10.25	11.25	12.25	
MAX 4.25 5.25 6.25 7.25 8.25 9.25 10.25 11.25 12.25 N 68 76 92 100 116 124 140 148 164 NDA 9 10 12 13 15 16 18 19 21 NDB 6 7 9 10 12 13 15 16 18 19 21 NEA 9 10 12 13 15 16 18 19 21 NEB 6 7 9 10 12 13 15 16 18 NOTES 1,2		MIN	4.15	5.15	6.15	7.15	8.15	9.15	10.15	11.15	12.15	
N 68 76 92 100 116 124 140 148 164 NDA 9 10 12 13 15 16 18 19 21 NDB 6 7 9 10 12 13 15 16 18 NEA 9 10 12 13 15 16 18 19 21 NEB 6 7 9 10 12 13 15 16 18 NOTES 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 REF 11-746	E3	NOM	4.20	5.20	6.20	7.20	8.20	9.20	10.20	11.20	12.20	
N 68 76 92 100 116 124 140 148 164 NDA 9 10 12 13 15 16 18 19 21 NDB 6 7 9 10 12 13 15 16 18 NEA 9 10 12 13 15 16 18 19 21 NEB 6 7 9 10 12 13 15 16 18 NOTES 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 REF 11-746		MAX	4.25	5.25	6.25	7.25	8.25	9.25	10.25	11.25	12.25	
NDB 6 7 9 10 12 13 15 16 18 NEA 9 10 12 13 15 16 18 19 21 NEB 6 7 9 10 12 13 15 16 18 NOTES 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 REF 11-746	N		68	76	92	100	116	124	140	148	164	
NEA 9 10 12 13 15 16 18 19 21 NEB 6 7 9 10 12 13 15 16 18 NOTES 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 REF 11-746	NDA		9	10	12	13	15	16	18	19	21	
NEB 6 7 9 10 12 13 15 16 18 NOTES 1,2 <t< td=""><td>NDB</td><td>}</td><td>6</td><td>7</td><td>9</td><td>10</td><td>12</td><td>13</td><td>15</td><td>16</td><td>18</td><td></td></t<>	NDB	}	6	7	9	10	12	13	15	16	18	
NOTES 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2	NEA		9	10	12	13	15	16	18	19	21	
REF 11-746	NEB	1	6	7	9	10	12	13	15	16	18	
REF 11-746	NOTE	S	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
ISSUE C	REF						1–746		•			
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TABLE 13

				<u>eT</u>] = (0.40mm	PITCH, ((3 ROW)				
VARI	ATION	CVLLC	CVMMC	CVNNC	CVPPC	CVQQC	CVRRC	CVSSC	CVTTC	CVUUC	
0,41001	_	CWLLC	CWMMC	CWNNC	CWPPC	CWQQC	CWRRC	CWSSC	CWTTC	CWUUC	NOTE
SYMBOL		CULLC	СПММС	CUNNC	CUPPC	CUQQC	CURRC	CUSSC	CUTTC	cuuuc	
D BS		7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	
E BS	<u>C.</u>	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	
	MIN	3.75	4.75	5.75	6.75	7.75	8.75	9.75	10.75	11.75	
D2	NOM	3.80	4.80	5.80	6.80	7.80	8.80	9.80	10.80	11.80	
MA	MAX	3.85	4.85	5.85	6.85	7.85	8.85	9.85	10.85	11.85	
	MIN	3.75	4.75	5.75	6.75	7.75	8.75	9.75	10.75	11.75	
E2	МОМ	3.80	4.80	5.80	6.80	7.80	8.80	9.80	10.80	11.80	
	MAX	3.85	4.85	5.85	6.85	7.85	8.85	9.85	10.85	11.85	
	MIN	_	_	_	_	_	_	_	_	_	
D3	МОМ	_	_	_	_	_	-	-	_	_	
	мах	_	_	_	_	_	-	_	-	_	
	MIN	_	_	_	_	_	-	_	_	_	
E3	МОМ	_	_	-	_	_	_	_	_	_	
	MAX	_	-	_	-	_	_	_	_	-	
N		156	180	216	240	276	300	336	360	396	
NDA	١	15	17	20	22	25	27	30	32	35	
NDE	3	12	14	17	19	22	24	27	29	32	
NDC	,	9	11	14	16	19	21	24	26	29	
NEA		15	17	20	22	25	27	30	32	35	
NEB	}	12	14	17	19	22	24	27	29	32	
NEC	;	9	11	14	16	19	21	24	26	29	
NOTE	:S	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
REF						11-746					
ISSUE C											

TABLE 14											
				eT = 0).50mm	PITCH, (3 ROW)				
VARIA	ATION	CVLLB	CVMMB	CVNNB	CVPPB	CVQQB	CVRRB	CVSSB	CVTTB	CVUUB	
\	_ [CWLLB	СМММВ	CWNNB	CWPPB	CWQQB	CWRRB	CWSSB	CWTTB	CWUUB	NOTE
SYMBOL		CULLB	СИММВ	CUNNB	CUPPB	CUQQB	CURRB	CUSSB	CUTTB	CUUUB	
D BS	C.	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	
E BS	C.	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	
	MIN	3.65	4.65	5.65	6.65	7.65	8.65	9.65	10.65	11.65	
D2	МОМ	3.70	4.70	5.70	6.70	7.70	8.70	9.70	10.70	11.70	
М	MAX	3.75	4.75	5.75	6.75	7.75	8.75	9.75	10.75	11.75	
	MIN	3.65	4.65	5.65	6.65	7.65	8.65	9.65	10.65	11.65	
E2	МОМ	3.70	4.70	5.70	6.70	7.70	8.70	9.70	10.70	11.70	
	MAX	3.75	4.75	5.75	6.75	7.75	8.75	9.75	10.75	11.75	
	MIN	_	_	_	_	_	-	_	_	_	
D3	МОМ	_	_	_	_	_	_	_	_	_	
	MAX	_	_	_	_	_	-	_	_	_	
	MIN	_	-	-	-	_	_	1	-	_	
E3	МОМ	_	_	_	_	_	-	_	_	_	
	MAX	_	_	_	_	_	_	_	_	_	
N	'	128	152	176	200	224	248	272	296	320	
NDA		12	14	16	18	20	22	24	26	28	
NDB	3	9	11	13	15	17	19	21	23	25	
NDC	;	8	10	12	14	16	18	20	22	24	
NEA		12	14	16	18	20	22	24	26	28	
NEB	3	9	11	13	15	17	19	21	23	25	
NEC	;	8	10	12	14	16	18	20	22	24	
NOTE	S	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
REF						11-746					
ISSU	E					С					

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SOLID	STATE
PRODUCT	DUTLINE

NOTES:

- 1. Dimensioning and tolerancing schemes conform to ASME Y14.5M—1994.
- 2. All dimensions are in millimeters.
- Terminal A1 identifier and terminal numbering convention shall conform to JEP95 SPP-002. Terminal A1 identifier must be located within the zone indicated on the outline drawing. Topside terminal A1 indicator may be a molded, marked, or metallized feature. Optional indicator on bottom surface may be a molded, marked or metallized feature. See Detail D for examples of pin 1 indicators.
- 4. "N" is the maximum number of terminal positions for the specified body size. Depopulation is allowed, but only under the following conditions.
 - a— Depopulation scheme must be consistent in each quadrant of the package.
 - b— Non—symmetric variations should be broken out as separate mechanical outline variations, including depopulation graphics.
- 5. Outlines with "D" and "E" increments less than 0.5 mm should be registered as "stand alone" outlines. These outlines should use as many of the algorithms and dimensions stated in the design standard as possible to insure predictability in manufacturing.
- Inner edge of corner terminals may be chamfered or rounded in order to achieve minimum gap "k". This feature should not affect the terminal width "b", which is measured L/2 from the edge of the package body.
- For a complete set of dimensions for each variation, see the individual variation tables and the common dimensions and tolerance on pages 4 & 5.
- Various companies have patents and related patent applications that may apply to this registration. If the current 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. Reference patents are as follows:

ASAT	US PATENT #'s 6,498,099; 6,635,957; 6,872,661; 6,933,594; 6,946,324; 6,964,918; 6,989,294; 6,995,460 7,009,286; 7,033,517; 7,049,177; 7,081,403
AIT	US PATENT #'s 6,812,552; 7,129,116

Diameter not greater than "b" maximum.

Dimensions "b" and "L" are measured at package surface.

JEDEC SOLID STATE PRODUCT OUTLINE	PLASTIC QUAD NO-LEAD STAGGERED MULTI-ROW PACKAGES	ISSUE D 17@gmail.c	DATE MAY 2007	M□-247 024, 1:39 am PDT	SHEET 11 OF 12
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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 Issue: A Date	: October 2003	Item Number: 1	11.11-639
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Revision History:

Issue: B Date: May 2005		Item Number: 11.11-721
Location	Change from:	Change to:
Table 1	W and U thickness profiles	V, W and U thickness profiles
Pages 1-3	Datums A and B shown	Switched datums A and B
Page 11	1 ASAT patent shown	Added 6,635,957 & 6,872,661

Location	Change from:	Change to:
Page 1	Corner terminal dimension = LC	Corner terminal dimension = L
Table 2	Values of LC shown	Delete LC from the table
Tables 4-14	N, NDA, NDB, NDC, NEA, NEB and NEC per DGuide 4.19B	N, NDA, NDB, NDC, NEA, NEB and NEC per DGuide 4.19C
	Non-existent	Added 11x11, 14x14 and 15x15mm body sizes
Pages 1-3	Non-existent	Corner terminals added to 2nd and 3rd rows
Page 11, Note 3	conform to JESD30.	conform to JEP95 SPP-002.
Page 11, Note 7	Anyvariation tables.	(Delete Note 7 and renumber)
Page 11, Note 8	3 ASAT patents shown	Added 5 more patent numbers

Issue: D	Date: May 2007	Item Number: 11.11-767
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Location	Change from:	Change to:
Page 1		Added Detail D, Detail E and Note 3 and 9 reference
Page 2-3		Added Detail D callout and Note 3 and 10 reference
Page 4	Table 2, NOTES: 1,2	Table 2, NOTES: 1,2, 10
Page 5	A1 max. dimension = 0.10	A1 max. dimension = 0.13
Page 11, Note 3		Added reference to Detail D
Page 11	8 ASAT patents shown	Added Notes 9 and 10. Added 2 AIT and 4 ASAT patent numbers.

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SOLID	STATE	
PRUDITE	DUTL INF	