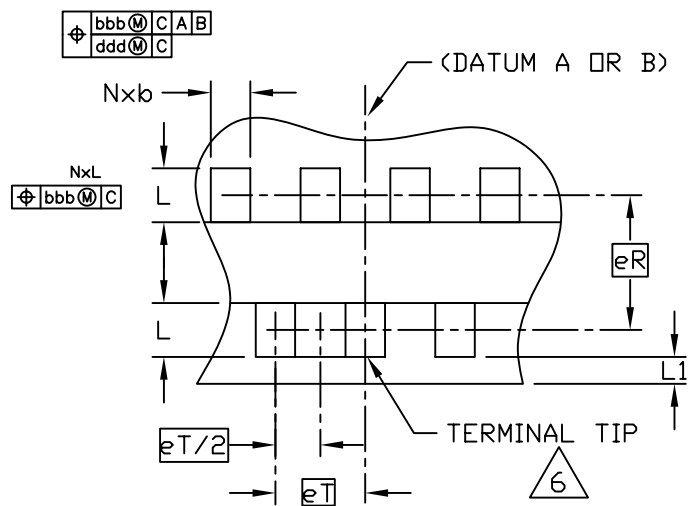
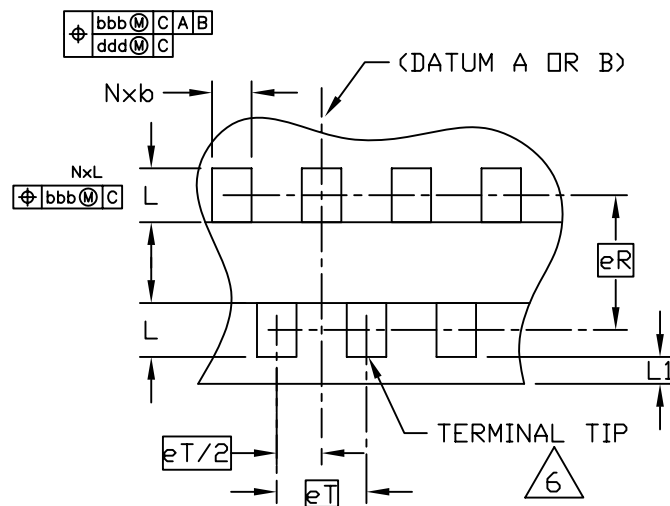


2-ROW STAGGERED TERMINAL NUMBERING
BOTTOM VIEW
DETAIL C



ODD TERMINAL/SIDE



EVEN TERMINAL/SIDE

2-ROW STAGGERED TYPE SAW-ISOLATED TERMINAL POSITION DETAIL D

TABLE 1

VARIATION DESIGNATORS							
FIRST LETTER CODE		SECOND LETTER CODE		THIRD LETTER CODE		FOURTH LETTER CODE	
OVERALL HEIGHT		BODY LENGTH		BODY WIDTH		TERMINAL PITCH	
A	LETTER CODE	D	LETTER CODE	E	LETTER CODE	eT	LETTER CODE
1.00 MAX.	V	1.0	A	1.0	A	0.65	A
0.80 MAX.	W	1.5	B	1.5	B	0.50	B
0.65 MAX.	U	2.0	C	2.0	C	0.40	C
—	—	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	H	4.5	H	—	—
—	—	5.0	J	5.0	J	—	—
—	—	6.0	K	6.0	K	—	—
—	—	7.0	L	7.0	L	—	—
—	—	8.0	M	8.0	M	—	—
—	—	9.0	N	9.0	N	—	—
—	—	10.0	P	10.0	P	—	—
—	—	11.0	Q	11.0	Q	—	—
—	—	12.0	R	12.0	R	—	—
—	—	13.0	S	13.0	S	—	—
—	—	14.0	T	14.0	T	—	—
—	—	15.0	U	15.0	U	—	—
—	—	16.0	V	16.0	V	—	—
—	—	17.0	W	17.0	W	—	—
—	—	18.0	Y	18.0	Y	—	—
—	—	19.0	Z	19.0	Z	—	—

TABLE 2

TERMINAL PITCH [eT]									
SYMBOL	0.65 BSC			0.50 BSC			0.40 BSC		
	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX
b	0.35	–	0.45	0.20	–	0.30	0.15	–	0.25
L	0.35	–	0.45	0.25	–	0.35	0.20	–	0.30
LC	0.35	–	0.45	0.25	–	0.35	0.20	–	0.30
[eR]	0.85 BSC			0.75 BSC			0.70 BSC		
NOTES	1,2,7			1,2,7			1,2,7		
REF	11–692			11–692			11–692		
ISSUE	A			A			A		

TABLE 3

COMMON DIMENSIONS									
SYMBOL	V: VERY THIN			W: VERY VERY THIN			U: ULTRA THIN		
	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX
A	0.80	0.85	0.90	0.70	0.75	0.80	0.55	0.60	0.65
OTHER COMMON DIMENSIONS									
	MIN			NOM			MAX		
A1	0.00			--			0.05		
k	0.20			--			--		
L1	0.05			--			0.15		
H1	0.25			--			0.45		
H2	0.15			--			0.25		
TOLERANCE OF FORM & POSITION									
aaa	0.15								
bbb	0.10								
ccc	0.10								
ddd	0.05								
eee	0.08								
fff	0.10								
NOTES	1,2,7								
REF	11–707								
ISSUE	B								

TABLE 4



SUMMARY TABLE FOR TWO ROW STAGGERED					
BODY SIZE	LEAD PITCH	LEAD COUNT	VERY THIN PROFILE	VERY VERY THIN PROFILE	ULTRA THIN PROFILE
5.00 X 5.00	0.50	44	VJJB	WJJB	UJJB
6.00 X 6.00	0.50	60	VKKB	WKKB	UKKB
7.00 X 7.00	0.50	76	VLLB	WLLB	ULLB
8.00 X 8.00	0.50	92	VMMB	WMMB	UMMB
9.00 X 9.00	0.50	108	VNNB	WNNB	UNNB
10.00 X 10.00	0.50	124	VPPB	WPPB	UPPB
12.00 X 12.00	0.50	156	VRRB	WRRB	URRB

TABLE 5

[eT] = 0.50mm PITCH									
VARIATION SYMBOL		VJJB	VKKB	VLLB	VMMB	VNNB	VPPB	VRRB	NOTE
		WJJB	WKKB	WLLB	WMMB	WNNB	WPPB	WRRB	
		UJJB	UKKB	ULLB	UMMB	UNNB	UPPB	URRB	
D BSC.		5.00	6.00	7.00	8.00	9.00	10.00	12.00	5
E BSC.		5.00	6.00	7.00	8.00	9.00	10.00	12.00	5
D2	MIN	1.65	2.65	3.65	4.65	5.65	6.65	8.65	
	NOM	1.80	2.80	3.80	4.80	5.80	6.80	8.80	
	MAX	1.95	2.95	3.95	4.95	5.95	6.95	8.95	
E2	MIN	1.65	2.65	3.65	4.65	5.65	6.65	8.65	
	NOM	1.80	2.80	3.80	4.80	5.80	6.80	8.80	
	MAX	1.95	2.95	3.95	4.95	5.95	6.95	8.95	
N		44	60	76	92	108	124	156	4
NDA		7	9	11	13	15	17	21	
NDB		4	6	8	10	12	14	18	
NEA		7	9	11	13	15	17	21	
NEB		4	6	8	10	12	14	18	
NOTES		7	7	7	7	7	7	7	
REF		11-707	11-707	11-707	11-707	11-707	11-707	11-707	
ISSUE		B	B	B	B	B	B	B	

NOTES:

1. Dimensioning and tolerancing schemes conform to ASME Y14.5M–1994.
2. All dimensions are in millimeters.
3. 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.
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 0.50 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.
6. 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.
7. For a complete set of dimensions for each variation, see the individual variation tables and the common dimensions and tolerance on pages 4 & 5.
8. A company has issued patents and has related patent applications that may apply to this registration. If the current issued patents or later patents resulting from related applications do apply, this company intends 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 # 6,229,200; 6,242,281; 6,635,957; & 6,498,099
