



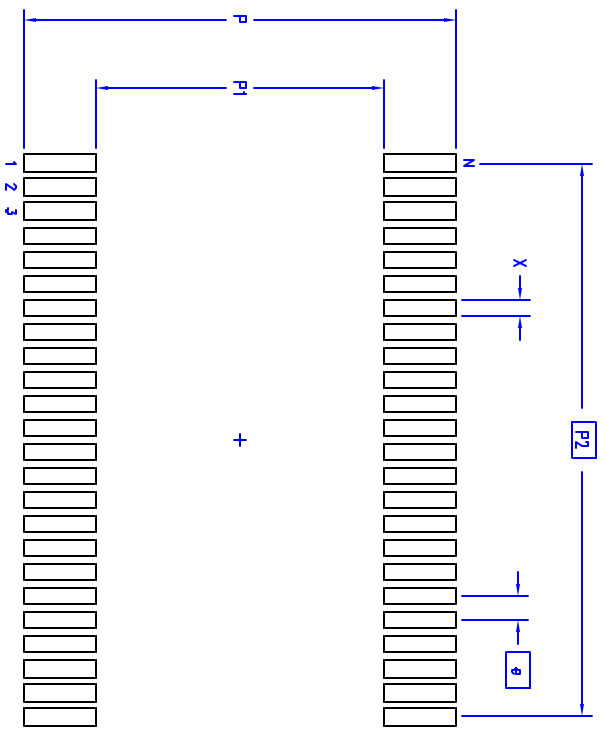
REVISIONS				
DCN	REV	DESCRIPTION	DATE	APPROVED
23757	D0	INITIAL RELEASE	02/15/93	T. VU
28315	D1	CHANGE DIMS A1 & A2	06/18/94	DG
26480	D2	CHANGE DIM A1	07/21/94	T. VU
27494	D3	REDRAW TO JEDEC FORMAT	03/08/95	T. VU
61767	04	ADD 64 LD	01/15/99	

### LAND PATTERN DIMENSIONS

SYMBOL	JEDEC VARIATION			N	Q	E	JEDEC VARIATION			N	Q	E	JEDEC VARIATION			N	Q	E	
	ED	NOM	MAX				EE	NOM	MAX				EF	NOM	MAX				
A	-	-	1.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A1	.05	-	.15	.05	-	.15	.05	-	.15	.05	-	.15	.05	-	.15	.05	-	.15	
A2	.85	1.00	1.05	.85	1.00	1.05	.85	1.00	1.05	.85	1.00	1.05	.85	1.00	1.05	.85	1.00	1.05	
D	12.40	12.50	12.80	4.5	13.90	14.00	14.10	4.5	16.90	17.00	17.10	4.5	16.90	17.00	17.10	4.5	16.90	17.00	17.10
E	7.95	8.10	8.25	3	7.95	8.10	8.25	3	7.95	8.10	8.25	3	7.95	8.10	8.25	3	7.95	8.10	8.25
E1	6.00	6.10	6.20	4.6	6.00	6.10	6.20	4.6	6.00	6.10	6.20	4.6	6.00	6.10	6.20	4.6	6.00	6.10	6.20
N	48			56			64			64			64			64			

### NOTES:

- ALL DIMENSIONING AND TOLERANCING CONFORM TO ANSI Y14.5M-1982
- DATUMS **-A-** AND **-B-** TO BE DETERMINED AT DATUM PLANE **-H-**
- DIMENSION E TO BE DETERMINED AT SEATING PLANE **-C-**
- DIMENSIONS D AND E1 ARE TO BE DETERMINED AT DATUM PLANE **-H-**
- DIMENSION D DOES NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS. MOLD FLASH, PROTRUSIONS OR GATE BURRS SHALL NOT EXCEED .15 mm PER SIDE
- DIMENSION E1 DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSIONS. INTERLEAD FLASH OR PROTRUSIONS SHALL NOT EXCEED .25 mm PER SIDE
- DETAIL OF PIN 1 IDENTIFIER IS OPTIONAL BUT MUST BE LOCATED WITHIN THE ZONE INDICATED
- LEAD WIDTH DIMENSION DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION IS .08 mm IN EXCESS OF THE LEAD WIDTH DIMENSION AT MAXIMUM MATERIAL CONDITION. DAMBAR CANNOT BE LOCATED ON THE LOWER RADII OR THE FOOT
- THESE DIMENSIONS APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN .10 AND .25 mm FROM THE LEAD TIP
- ALL DIMENSIONS ARE IN MILLIMETERS
- THIS OUTLINE CONFORMS TO JEDEC PUBLICATION 95 REGISTRATION MO-153, VARIATION ED, EE & EF



	MIN	MAX	MIN	MAX	MIN	MAX
P	8.90	9.10	8.90	9.10	8.90	9.10
P1	5.90	6.10	5.90	6.10	5.90	6.10
P2	11.50	BSC	13.50	BSC	15.50	BSC
X	.30	.40	.30	.40	.30	.40
e	.50	BSC	.50	BSC	.50	BSC
N	48		56		64	

**TOLERANCES UNLESS SPECIFIED**

DECIMAL ANGULAR  
 XXXX ±  
 XXXX ±

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APPROVALS DATE TITLE  
 DRAWN **ADD** 01/15/99 PA PACKAGE OUTLINE  
 CHECKED 50 mm BODY WIDTH TSSOP  
 50 mm PITCH

SIZE DRAWING No. PSC-4039 REV  
 DO NOT SCALE DRAWING SHEET 2 OF 2