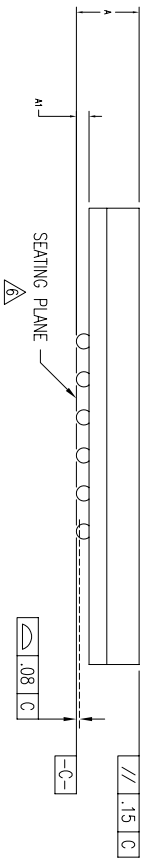
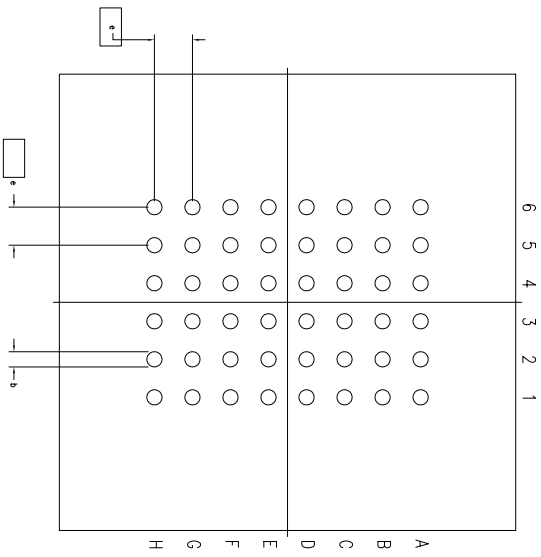
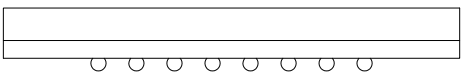
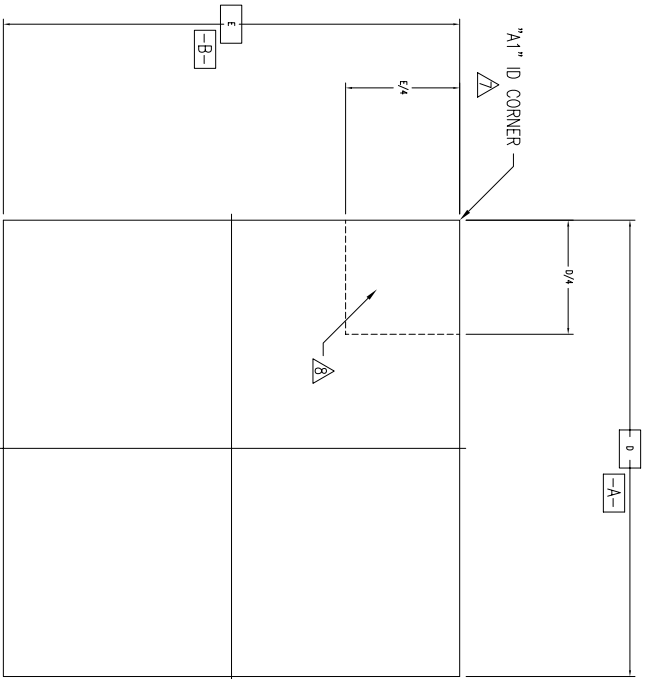


REVISIONS

REV	DESCRIPTION	DATE	APPROVED
01	CHANGE "b" DIM	04/25/02	AN
02	CHANGE "A1" DIM	09/07/04	ML
03	ADD "GREEN" BEG NOMENCLATURE	10/27/04	STL
04	COMBINE POD & LAND PATTERN	05/24/13	JK



TOLERANCES UNLESS SPECIFIED
 DECIMAL ANGULAR ±
 XXX±
 XXXX±
 XXXXX±

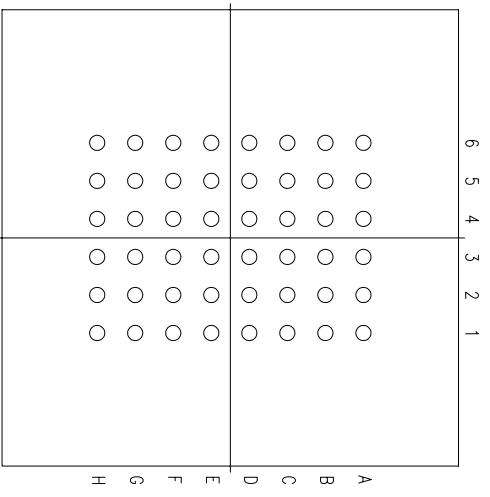
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APPROVALS DATE TITLE
 DRAWN: STJ 07/05/00 BE/BEG PACKAGE OUTLINE
 CHECKED: FPBGA

SIZE DRAWING No. PSC-4090 REV
 C

DO NOT SCALE DRAWING SHEET 1 OF 3



(48 BALL)

SYMBOL	JEDEC VARIATION			NOTE
	NOT YET REGISTERED	MIN	NOM	
A	-	-	1.20	
A1	.20	.25	.35	
D		9.00 BSC		
E		9.00 BSC		
M		6 X 8		3
N		48		4
e		.75 BSC		
b	.30	.35	.45	5
CENTER BALL MATRIX	N/A			

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
01	CHANGE "b" DIM	04/25/02	ADP
02	CHANGE "A1" DIM	09/07/04	MPJ/C
03	ADD "GREEN" BEG NOMENCLATURE	10/27/04	JYL/JYL
04	COMBINE POD & LAND PATTERN	05/24/13	J.C.B

NOTES:

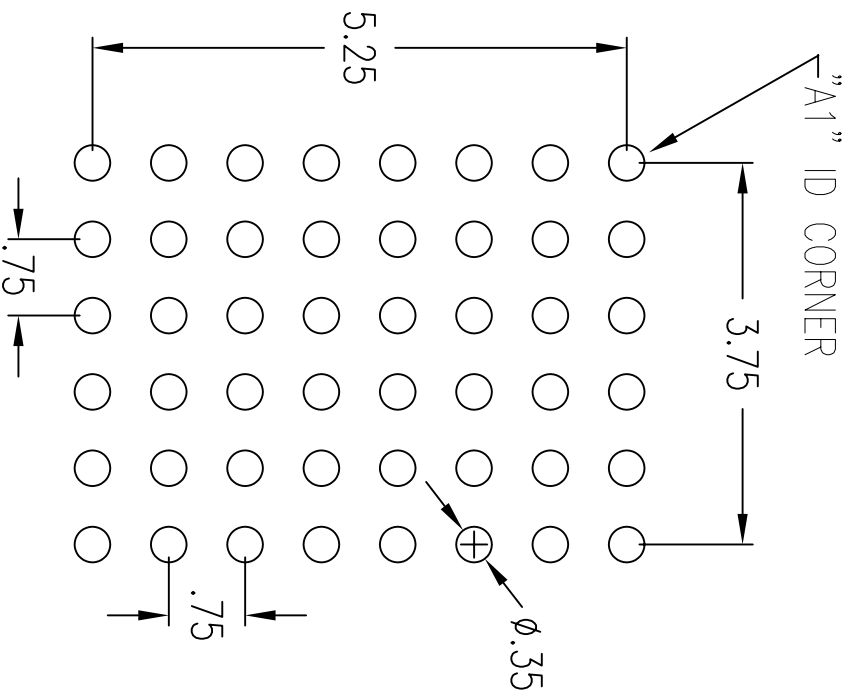
- 1 ALL DIMENSIONING AND TOLERANCING CONFORM TO ANSI Y14.5M-1982
- 2 "e" REPRESENTS THE BASIC SOLDER BALL GRID PITCH
- 3 "M" REPRESENTS THE MAXIMUM SOLDER BALL MATRIX SIZE
- 4 "N" REPRESENTS THE BALLCOUNT NUMBER
- 5 DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM $\boxed{-C-}$
- 6 SEATING PLANE AND PRIMARY DATUM $\boxed{-C-}$ ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS
- 7 "A1" ID CORNER MUST BE IDENTIFIED BY CHAMFER, INK MARK, METALLIZED MARKING, INDENTATION OR OTHER FEATURE ON PACKAGE BODY
- 8 IF "A1" ID CORNER IS ON PACKAGE BODY, IT MUST BE LOCATED WITHIN THE ZONE INDICATED
- 9 ALL DIMENSIONS ARE IN MILLIMETERS

<p>TOLERANCES UNLESS SPECIFIED DECIMAL ANGULAR XXX± XXXX± XXXX±</p>	<p>APPROVALS DATE DRAWN JYJ 07/05/00 CHECKED</p>	<p>TITLE BE/BEG PACKAGE OUTLINE SIZE DRAWING No. PSC-4090 DRAWN JYJ 07/05/00 CHECKED</p>	<p>DO NOT SCALE DRAWING</p>	<p>REV 04 SHEET 2 OF 3</p>
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REV	DESCRIPTION	DATE	APPROVED
01	CHANGE "b" DIM	04/25/02	ASJL
02	CHANGE "A1" DIM	09/07/04	MLJES
03	ADD "GREEN" BEG NOMENCLATURE	10/27/04	STL JYL
04	COMBINE POD & LAND PATTERN	05/24/13	JC.S




RECOMMENDED LAND PATTERN

NOTE:

- 1) ALL dimensions are in mm, Angles in degrees.
- 2) Top down view, as view on PCB.
- 3) NSMD Land Pattern Assumed
- 4) Land Pattern Recommendation as per IPC-7351B generic requirement for surface mount design and Land Pattern.

TOLERANCES UNLESS SPECIFIED		DATE		APPROVED	
DECIMAL	ANGULAR				
XXX±	±				
XXXX±					
XXXX±					
APPROVALS	DATE	TITLE	SIZE	DRAWING No.	REV
DRAWN: JYJ	07/05/00	BE/BEG PACKAGE OUTLINE	C	PSC-4090	04
CHECKED		FPBGA			
DO NOT SCALE DRAWING		SHEET 3 OF 3			


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