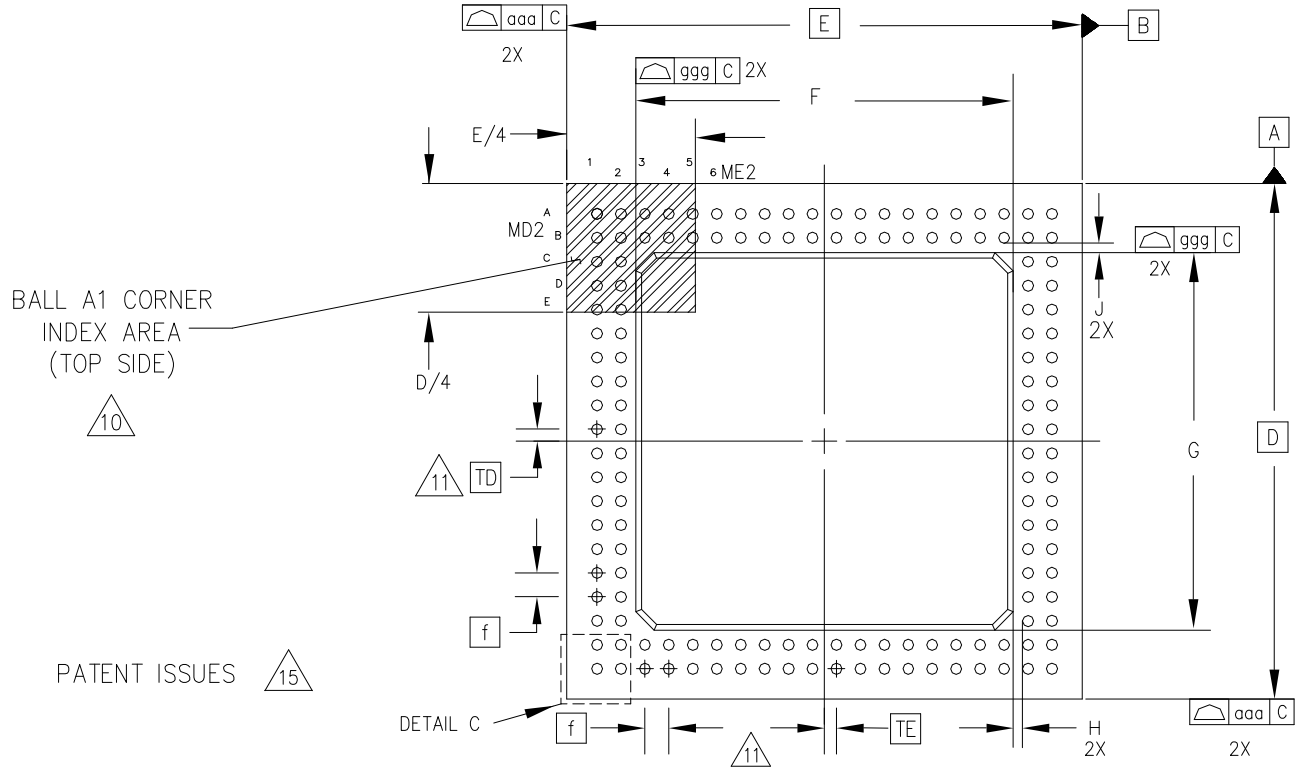
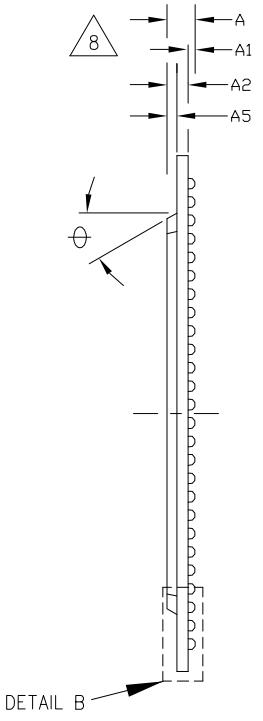
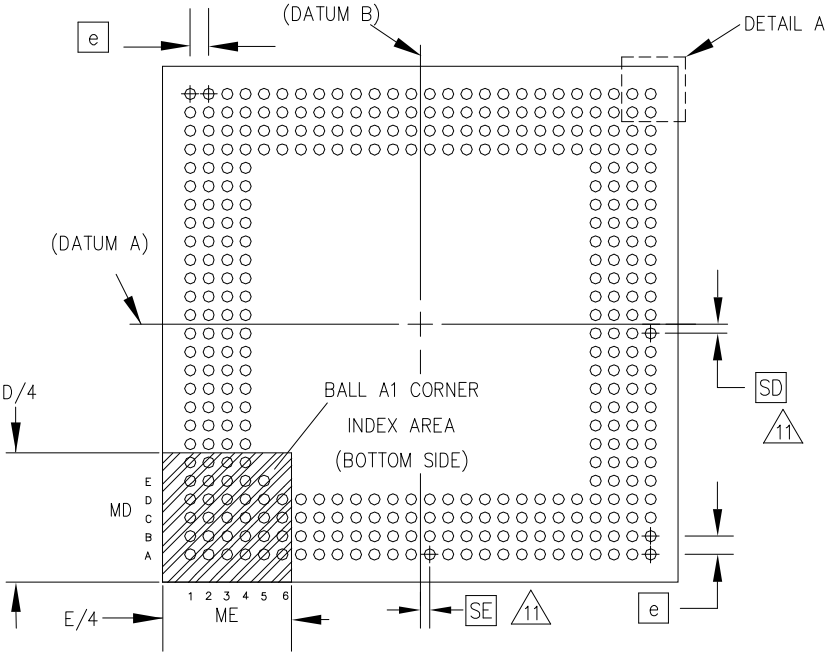


TOP VIEW 3 6 12 14



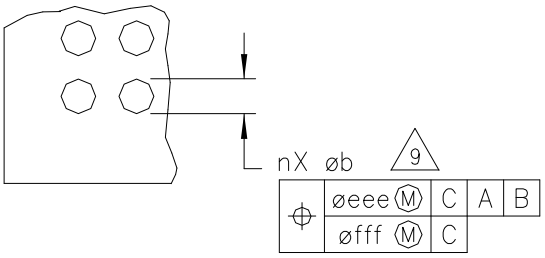
SIDE VIEW



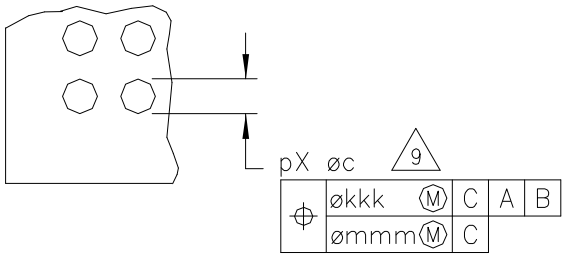
BOTTOM VIEW 3 6 12 14

JEDEC SOLID STATE PRODUCT OUTLINE	THIS REGISTERED OUTLINE HAS BEEN PREPARED AND PUBLISHED BY THE JEDEC JC-11 COMMITTEE AND REFLECTS A PRODUCT WITH ANTICIPATED USE IN THE ELECTRONICS INDUSTRY. CHANGES ARE LIKELY TO OCCUR.

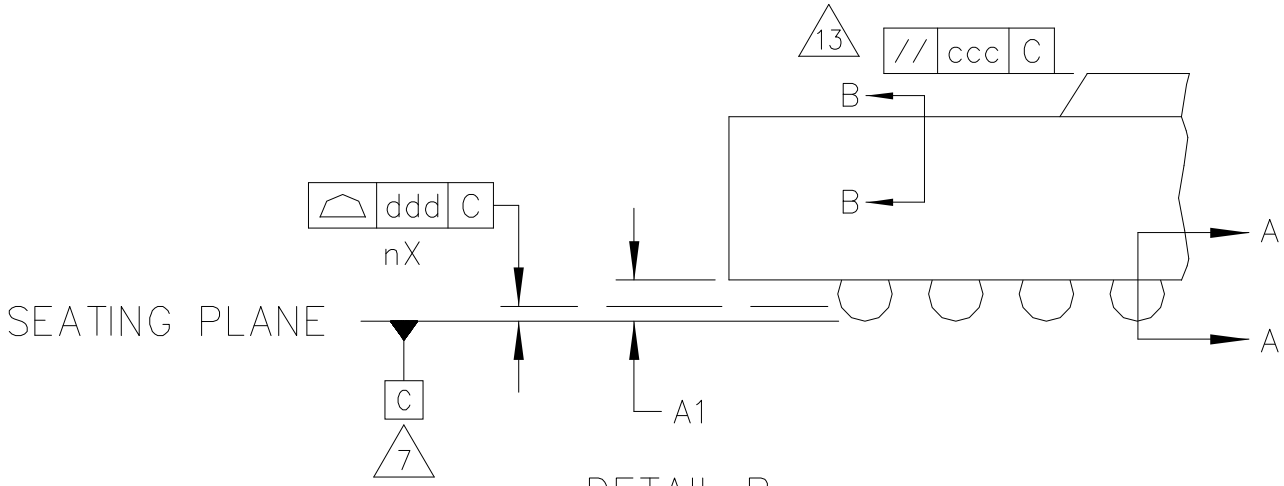
TITLE:	PACKAGE DESIGNATOR:	ISSUE:	DATE:		PAGE:
VERY THIN, FINE-PITCH, STACKABLE BALL GRID 0.50 mm BALL PITCH ARRAY FAMILY	VF-XBGA	B	Aug 2007	MO-266	1 OF 20



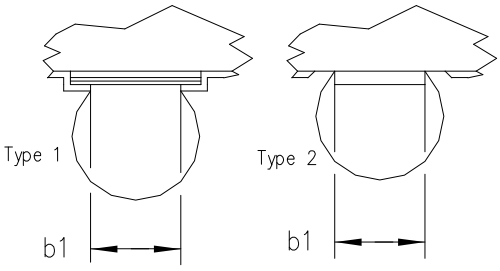
DETAIL A
(BOTTOM SIDE)



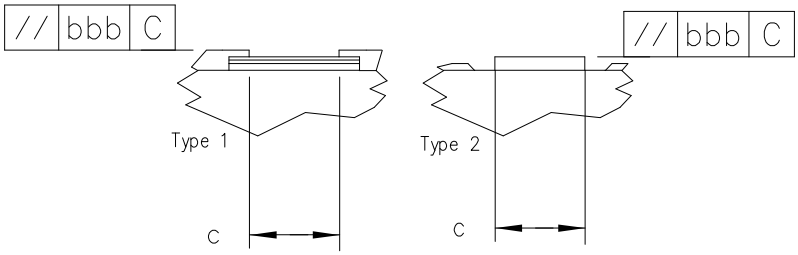
DETAIL C
(TOP SIDE)



DETAIL B
(ROTATED 90° CW)



16 SECTION A–A



16 SECTION B–B

JEDEC SOLID STATE PRODUCT OUTLINE	TITLE: VERY THIN, FINE-PITCH, STACKABLE BALL GRID 0.50 mm BALL PITCH ARRAY FAMILY	ISSUE: B	DATE: Aug 2007	MO-266	PAGE: 2 OF 20

TABLE 1

GENERAL TOLERANCES OF FORM AND POSITION	
BALL PITCH / SYMBOLS	0.50
aaa	0.10
bbb	0.10
ccc	0.20
ddd	0.10
eee	0.15
fff	0.05
ggg	0.15
kkk	0.15
mmm	0.08 for f=0.80
	0.08 for f=0.65
	0.05 for f=0.50
NOTES	
REF	11-725
ISSUE	A

TABLE 2 – 0.80 mm TOP LAND PITCH (17) (18)

VARIATION TABLE								
VARIATION / SYMBOLS			CA					NOTE
A	MIN		---					8
	NOM		---					
	MAX		1.00					
A1	MIN		0.15					8
	NOM		---					
	MAX		---					
A2	MIN		---					8
	NOM		---					
	MAX		0.75					
A5	MIN		0.30					8
	NOM		0.35					
	MAX		0.40					
b	MIN		0.25					
	NOM		0.30					
	MAX		0.35					
b1	Type 1	MIN	0.20					
		NOM	---					
		MAX	---					
	Type 2	MIN	0.20					
		NOM	---					
		MAX	---					
c	MIN		0.32					
	NOM		0.35					
	MAX		0.38					
D BSC			14.00					
F MAX			10.20					
E BSC			14.00					
G MAX			10.20					
e BSC			0.50					
f BSC			0.80					
H	MIN		0.25					
	NOM		---					
	MAX		---					
J	MIN		0.25					
	NOM		---					
	MAX		---					
MD			26					4
ME			26					4
MD2			17					4
ME2			17					4
p			120					5
n			372					5
SD			0.25					11
SE			0.25					11
TD			0					11
TE			0					11
FOOTPRINT FIGURE			7					14
Θ	MIN		15					
	NOM		30					
	MAX		45					
NOTE			19					
ITEM			11.11-769					
ISSUE			B					

TABLE 3 – 0.65 mm TOP LAND PITCH (17) (18)

VARIATION TABLE								
VARIATION / SYMBOLS			AA	AB	AC	AD	AE	AF	NOTE
A		MIN	---	---	---	---	---	---	8
		NOM	---	---	---	---	---	---	
		MAX	0.90	0.90	0.90	0.90	0.90	0.90	
A1		MIN	0.15	0.15	0.15	0.15	0.15	0.15	8
		NOM	---	---	---	---	---	---	
		MAX	---	---	---	---	---	---	
A2		MIN	---	---	---	---	---	---	8
		NOM	---	---	---	---	---	---	
		MAX	0.65	0.65	0.65	0.65	0.65	0.65	
A5		MIN	0.20	0.20	0.20	0.20	0.20	0.20	8
		NOM	0.25	0.25	0.25	0.25	0.25	0.25	
		MAX	0.33	0.33	0.33	0.33	0.33	0.33	
b		MIN	0.25	0.25	0.25	0.25	0.25	0.25	
		NOM	0.30	0.30	0.30	0.30	0.30	0.30	
		MAX	0.35	0.35	0.35	0.35	0.35	0.35	
b1	Type 1	MIN	0.20	0.20	0.20	0.20	0.20	0.20	
		NOM	---	---	---	---	---	---	
		MAX	---	---	---	---	---	---	
	Type 2	MIN	0.20	0.20	0.20	0.20	0.20	0.20	
		NOM	---	---	---	---	---	---	
		MAX	---	---	---	---	---	---	
c		MIN	0.27	0.27	0.27	0.27	0.27	0.27	
		NOM	0.30	0.30	0.30	0.30	0.30	0.30	
		MAX	0.33	0.33	0.33	0.33	0.33	0.33	
D BSC			14.00	13.00	12.00	10.00	11.00	15.00	
F MAX			10.80	9.50	8.85	6.25	7.55	11.15	
E BSC			14.00	13.00	12.00	10.00	11.00	15.00	
G MAX			10.80	9.50	8.85	6.25	7.55	11.15	
e BSC			0.50	0.50	0.50	0.50	0.50	0.50	
f BSC			0.65	0.65	0.65	0.65	0.65	0.65	
H		MIN	0.30	0.30	0.30	0.30	0.30	0.30	
		NOM	---	---	---	---	---	---	
		MAX	---	---	---	---	---	---	
J		MIN	0.30	0.30	0.30	0.30	0.30	0.30	
		NOM	---	---	---	---	---	---	
		MAX	---	---	---	---	---	---	
MD			26	25	23	19	21	29	4
ME			26	25	23	19	21	29	4
MD2			21	19	18	14	16	22	4
ME2			21	19	18	14	16	22	4
p			152	136	128	96	112	160	5
n			353	337	305	361	441	841	5
SD			0.25	0	0	0	0	0	11
SE			0.25	0	0	0	0	0	11
TD			0	0	0.325	0.325	0.325	0.325	11
TE			0	0	0.325	0.325	0.325	0.325	11
FOOTPRINT FIGURE			1	2	3	8	9	10	14
θ		MIN	15	15	15	15	15	15	
		NOM	30	30	30	30	30	30	
		MAX	45	45	45	45	45	45	
NOTE			19	19	19	19	19	19	
ITEM			11.11-725	11.11-725	11.11-725	11.11-769	11.11-769	11.11-769	
ISSUE			A	A	A	B	B	B	

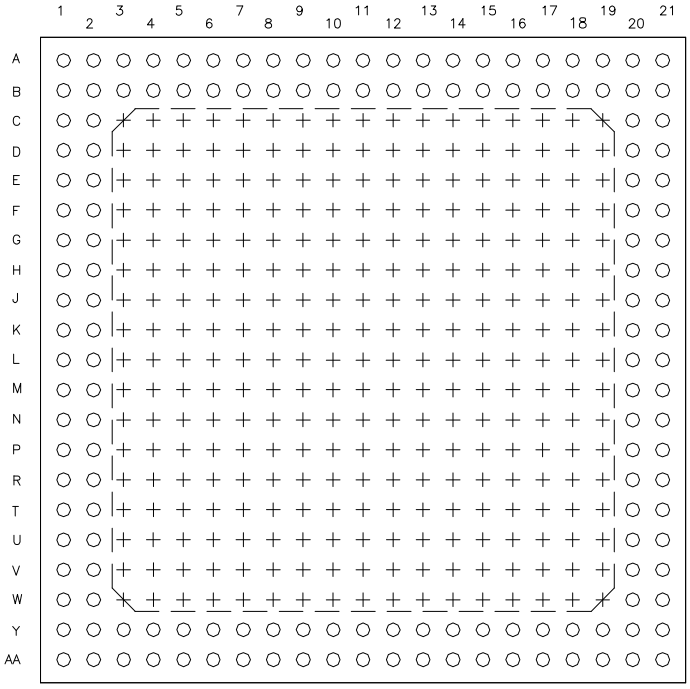
TABLE 4 – 0.50 mm TOP LAND PITCH (17) (18)

VARIATION TABLE								
VARIATION / SYMBOLS			BA	BB	BC	BD	BE	BF	NOTE
A		MIN	---	---	---	---	---	---	8
		NOM	---	---	---	---	---	---	
		MAX	0.85	0.85	0.85	0.85	0.85	0.85	
A1		MIN	0.15	0.15	0.15	0.15	0.15	0.15	8
		NOM	---	---	---	---	---	---	
		MAX	---	---	---	---	---	---	
A2		MIN	---	---	---	---	---	---	8
		NOM	---	---	---	---	---	---	
		MAX	0.60	0.60	0.60	0.60	0.60	0.60	
A5		MIN	0.18	0.18	0.18	0.18	0.18	0.18	8
		NOM	0.20	0.20	0.20	0.20	0.20	0.20	
		MAX	0.22	0.22	0.22	0.22	0.22	0.22	
b		MIN	0.25	0.25	0.25	0.25	0.25	0.25	
		NOM	0.30	0.30	0.30	0.30	0.30	0.30	
		MAX	0.35	0.35	0.35	0.35	0.35	0.35	
b1	Type 1	MIN	0.20	0.20	0.20	0.20	0.20	0.20	
		NOM	---	---	---	---	---	---	
		MAX	---	---	---	---	---	---	
	Type 2	MIN	0.20	0.20	0.20	0.20	0.20	0.20	
		NOM	---	---	---	---	---	---	
		MAX	---	---	---	---	---	---	
c		MIN	0.22	0.22	0.22	0.22	0.22	0.22	
		NOM	0.25	0.25	0.25	0.25	0.25	0.25	
		MAX	0.28	0.28	0.28	0.28	0.28	0.28	
D BSC			14.00	13.00	12.00	10.00	11.00	15.00	
F MAX			11.20	10.20	9.20	7.20	8.20	12.20	
E BSC			14.00	13.00	12.00	10.00	11.00	15.00	
G MAX			11.20	10.20	9.20	7.20	8.20	12.20	
e BSC			0.50	0.50	0.50	0.50	0.50	0.50	
f BSC			0.50	0.50	0.50	0.50	0.50	0.50	
H		MIN	0.225	0.225	0.225	0.225	0.225	0.225	
		NOM	---	---	---	---	---	---	
		MAX	---	---	---	---	---	---	
J		MIN	0.225	0.225	0.225	0.225	0.225	0.225	
		NOM	---	---	---	---	---	---	
		MAX	---	---	---	---	---	---	
MD			27	25	23	19	21	29	4
ME			27	25	23	19	21	29	4
MD2			27	25	23	19	21	29	4
ME2			27	25	23	19	21	29	4
p			200	184	168	136	152	216	5
n			368	336	304	361	441	841	5
SD			0	0	0	0	0	0	11
SE			0	0	0	0	0	0	11
TD			0	0	0	0	0	0	11
TE			0	0	0	0	0	0	11
FOOTPRINT FIGURE			4	5	6	11	12	13	14
Θ		MIN	15	15	15	15	15	15	
		NOM	30	30	30	30	30	30	
		MAX	45	45	45	45	45	45	
NOTE			19	19	19	19	19	19	
ITEM			11.11-725	11.11-725	11.11-725	11.11-769	11.11-769	11.11-769	
ISSUE			A	A	A	B	B	B	

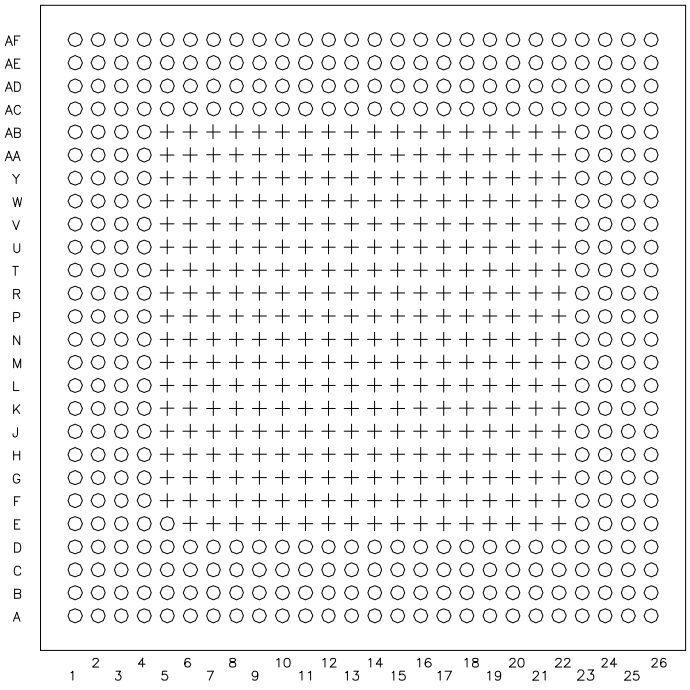
FIGURE 1: BALL AND LAND PATTERNS FOOTPRINTS

3 12 17

VARIATION AA



TOP VIEW



BOTTOM VIEW

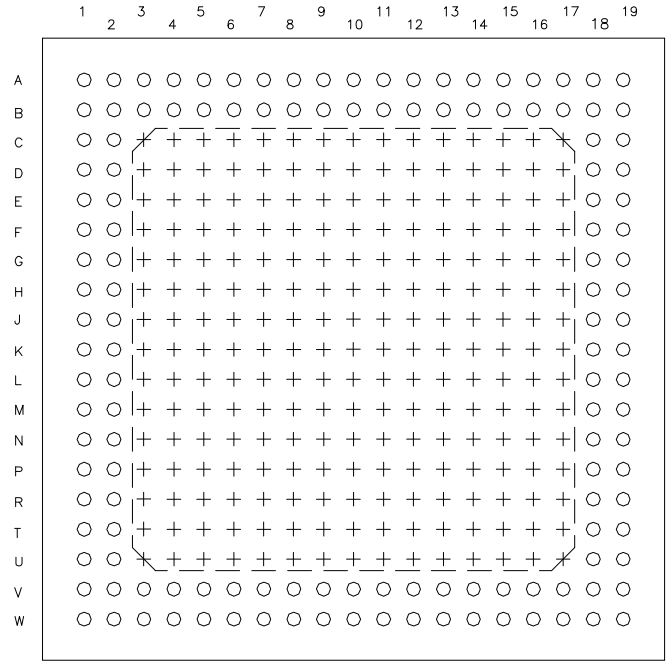
+ = UNPOPULATED BALL POSITION

JEDEC SOLID STATE PRODUCT OUTLINE	TITLE: VERY THIN, FINE-PITCH, STACKABLE BALL GRID 0.50 mm BALL PITCH ARRAY FAMILY	ISSUE: B	DATE: Aug 2007	MO-266	PAGE: 6 OF 20

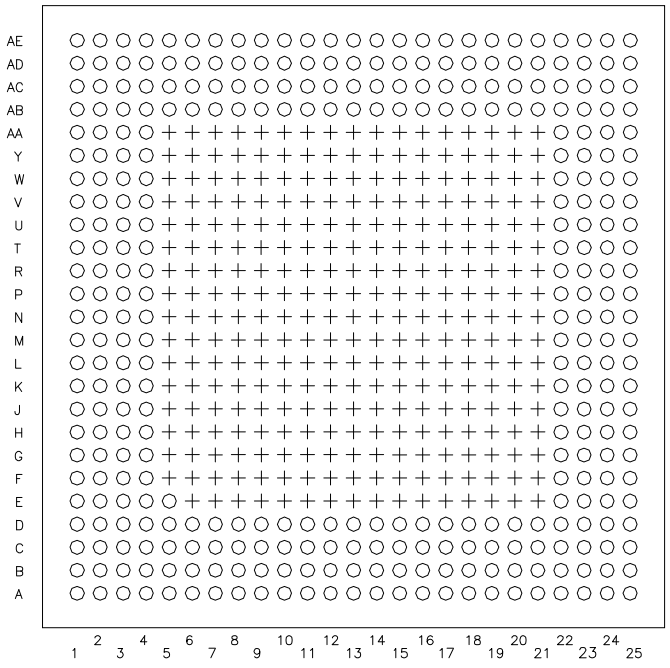
FIGURE 2: BALL AND LAND PATTERNS FOOTPRINTS

3 12 17

VARIATION AB



TOP VIEW



BOTTOM VIEW

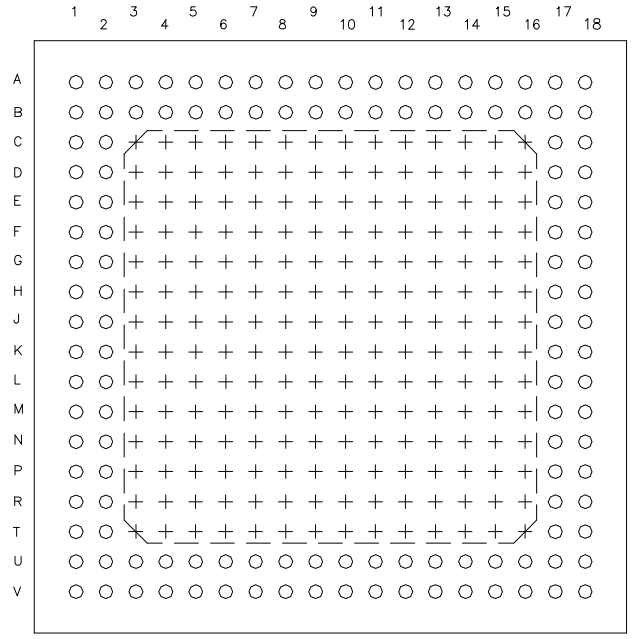
+ = UNPOPULATED BALL POSITION

JEDEC SOLID STATE PRODUCT OUTLINE	TITLE: VERY THIN, FINE-PITCH, STACKABLE BALL GRID 0.50 mm BALL PITCH ARRAY FAMILY	ISSUE: B	DATE: Aug 2007	MO-266	PAGE: 7 OF 20

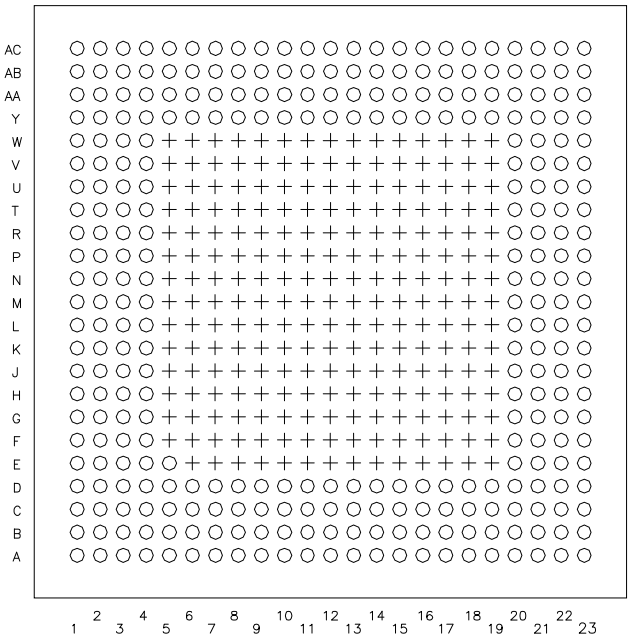
FIGURE 3: BALL AND LAND PATTERNS FOOTPRINTS

△3 △12 △17

VARIATION AC



TOP VIEW



BOTTOM VIEW

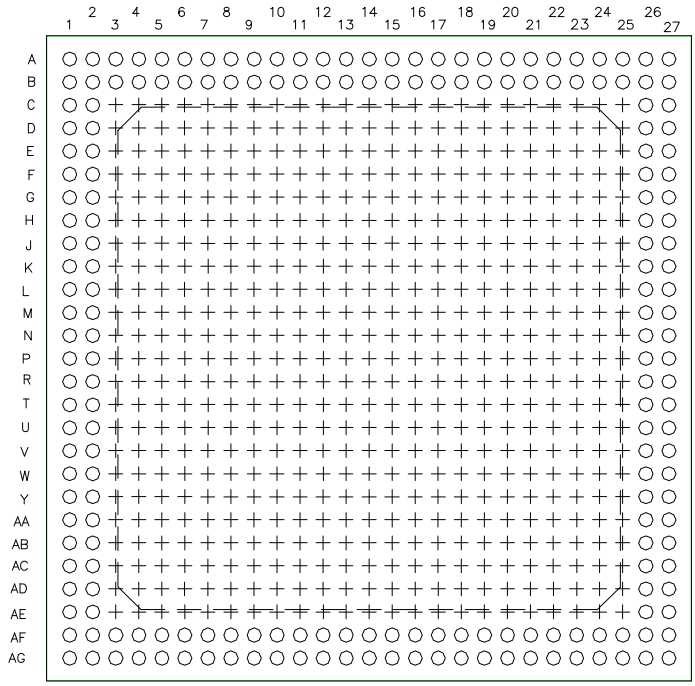
+ = UNPOPULATED BALL POSITION

JEDEC SOLID STATE PRODUCT OUTLINE	TITLE: VERY THIN, FINE-PITCH, STACKABLE BALL GRID 0.50 mm BALL PITCH ARRAY FAMILY	ISSUE: B	DATE: Aug 2007	MO-266	PAGE: 8 OF 20

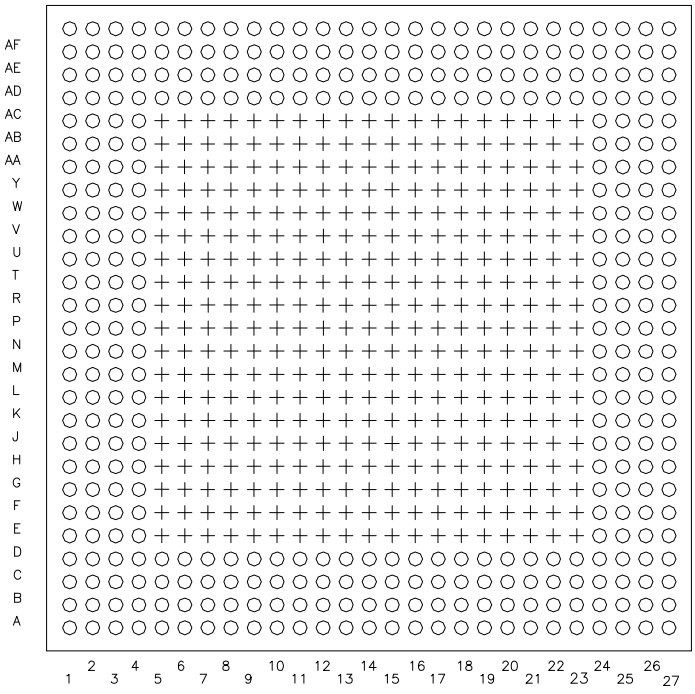
FIGURE 4: BALL AND LAND PATTERNS FOOTPRINTS

△3 △12 △17

VARIATION BA



TOP VIEW



BOTTOM VIEW

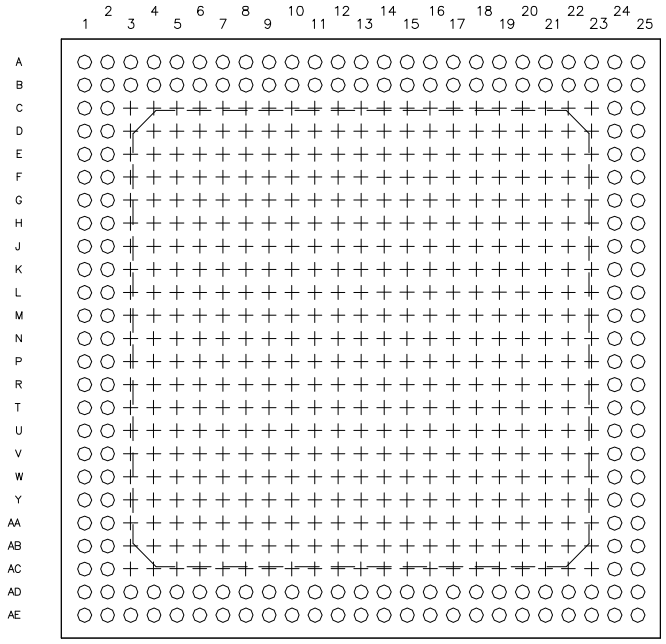
+ = UNPOPULATED BALL POSITION

JEDEC SOLID STATE PRODUCT OUTLINE	TITLE: VERY THIN, FINE-PITCH, STACKABLE BALL GRID 0.50 mm BALL PITCH ARRAY FAMILY	ISSUE: B	DATE: Aug 2007	MO-266	PAGE: 9 OF 20

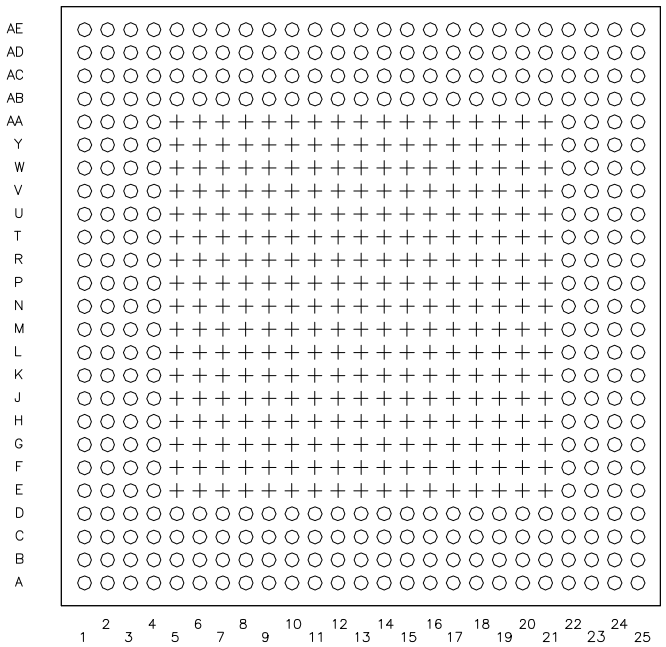
FIGURE 5: BALL AND LAND PATTERNS FOOTPRINTS

3 12 17

VARIATION BB



TOP VIEW



BOTTOM VIEW

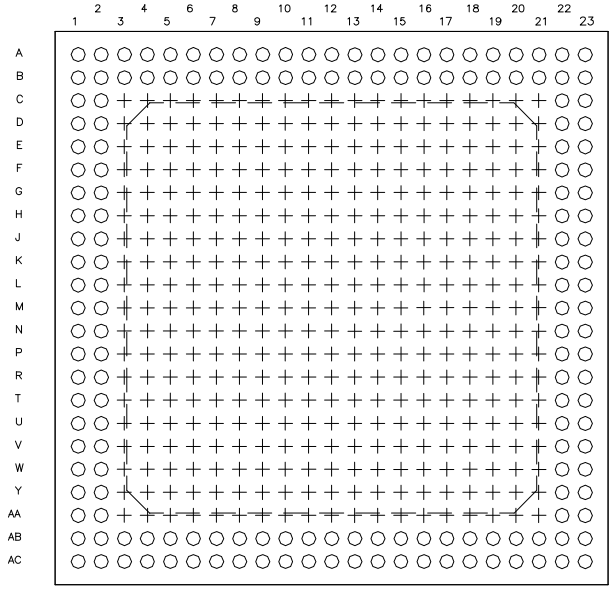
+ = UNPOPULATED BALL POSITION

JEDEC SOLID STATE PRODUCT OUTLINE	TITLE: VERY THIN, FINE-PITCH, STACKABLE BALL GRID 0.50 mm BALL PITCH ARRAY FAMILY	ISSUE: B	DATE: Aug 2007	MO-266	PAGE: 10 OF 20

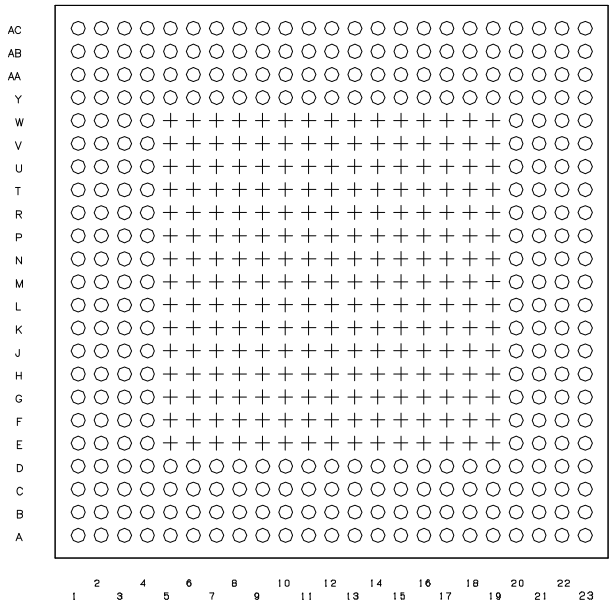
FIGURE 6: BALL AND LAND PATTERNS FOOTPRINTS

3 12 17

VARIATION BC



TOP VIEW



BOTTOM VIEW

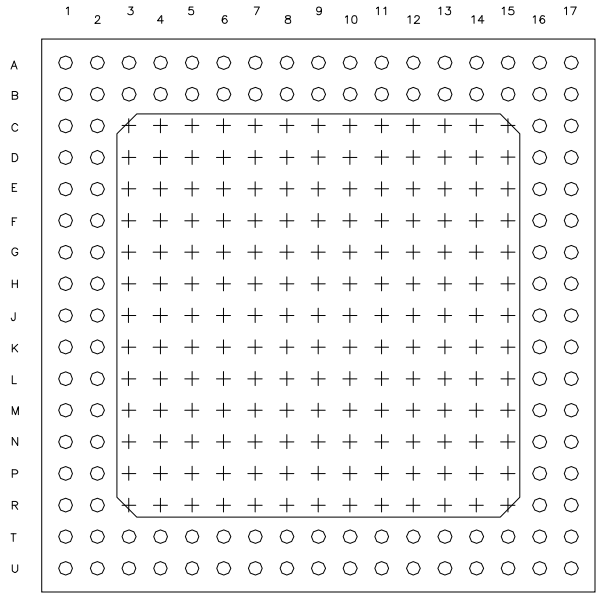
+ = UNPOPULATED BALL POSITION

JEDEC SOLID STATE PRODUCT OUTLINE	TITLE: VERY THIN, FINE-PITCH, STACKABLE BALL GRID 0.50 mm BALL PITCH ARRAY FAMILY	ISSUE: B	DATE: Aug 2007	MO-266	PAGE: 11 OF 20

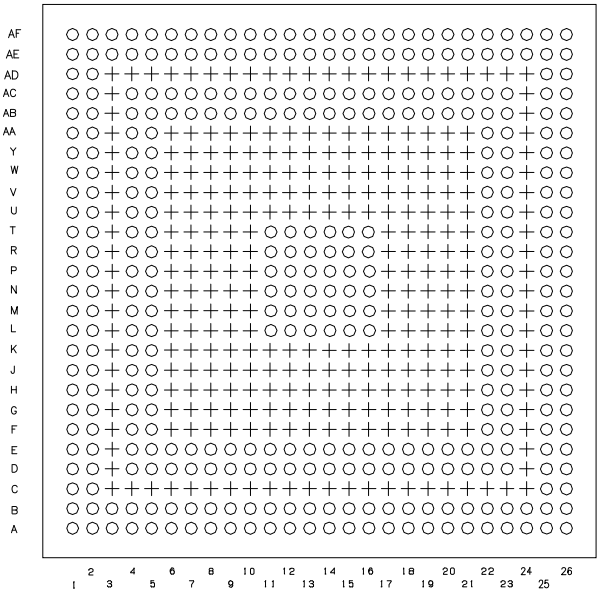
FIGURE 7: BALL AND LAND PATTERNS FOOTPRINTS

△3 △12 △17

VARIATION CA



TOP VIEW



BOTTOM VIEW

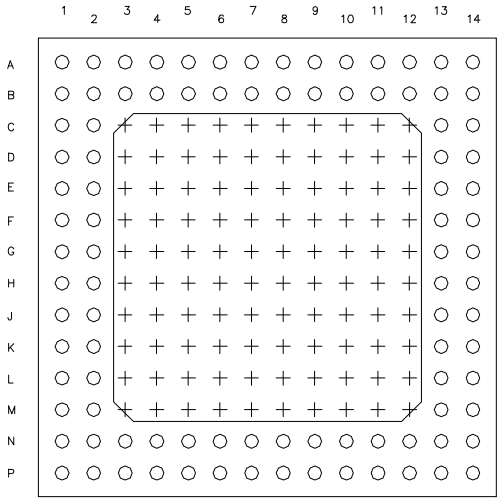
+ = UNPOPULATED BALL POSITION

JEDEC SOLID STATE PRODUCT OUTLINE	TITLE: VERY THIN, FINE-PITCH, STACKABLE BALL GRID 0.50 mm BALL PITCH ARRAY FAMILY	ISSUE: B	DATE: Aug 2007	MO-266	PAGE: 12 OF 20

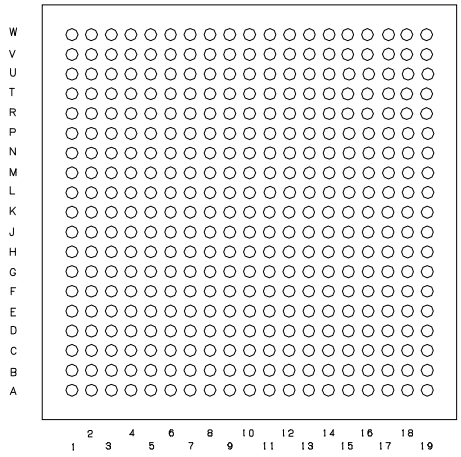
FIGURE 8: BALL AND LAND PATTERNS FOOTPRINTS

3 12 17

VARIATION AD



TOP VIEW



BOTTOM VIEW

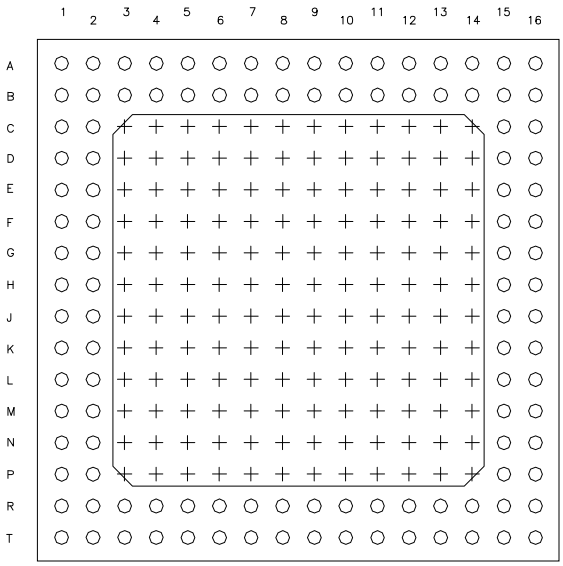
+ = UNPOPULATED BALL POSITION

JEDEC SOLID STATE PRODUCT OUTLINE	TITLE: VERY THIN, FINE-PITCH, STACKABLE BALL GRID 0.50 mm BALL PITCH ARRAY FAMILY	ISSUE: B	DATE: Aug 2007	MO-266	PAGE: 13 OF 20

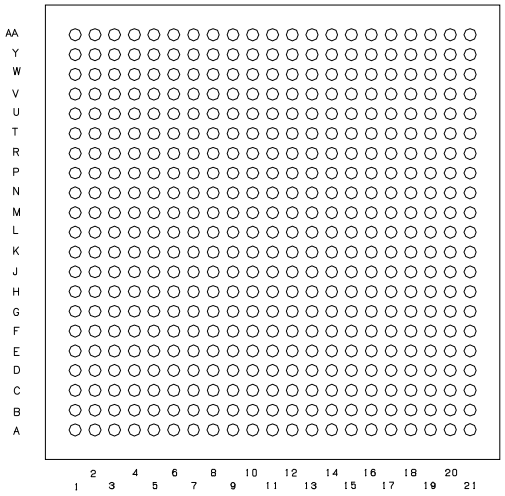
FIGURE 9: BALL AND LAND PATTERNS FOOTPRINTS

3 12 17

VARIATION AE



TOP VIEW



BOTTOM VIEW

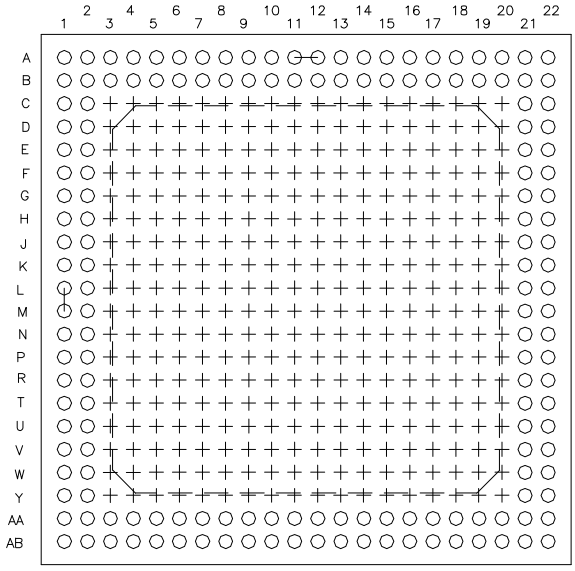
+ = UNPOPULATED BALL POSITION

JEDEC SOLID STATE PRODUCT OUTLINE	TITLE: VERY THIN, FINE-PITCH, STACKABLE BALL GRID 0.50 mm BALL PITCH ARRAY FAMILY	ISSUE: B	DATE: Aug 2007	MO-266	PAGE: 14 OF 20

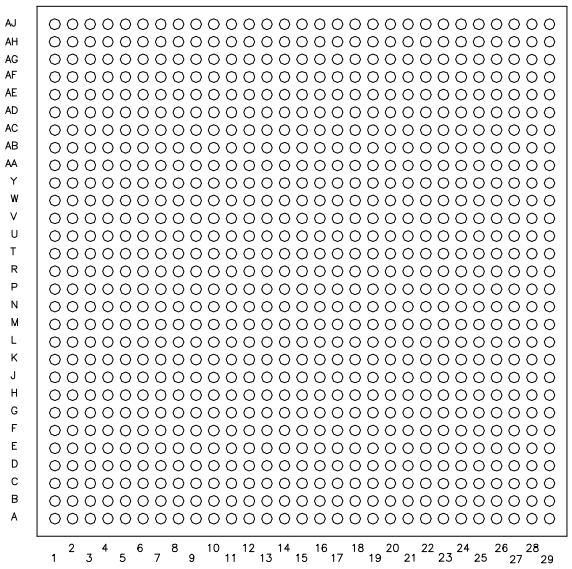
FIGURE 10: BALL AND LAND PATTERNS FOOTPRINTS

3 12 17

VARIATION AF



TOP VIEW



BOTTOM VIEW

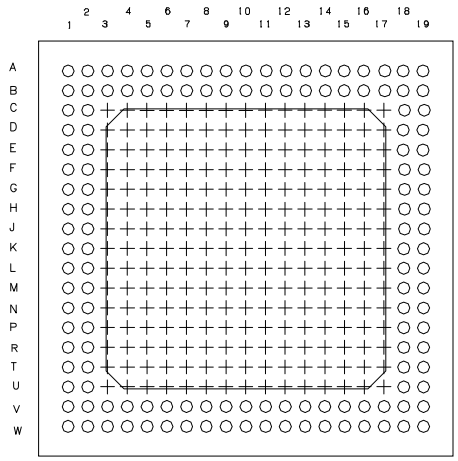
+ = UNPOPULATED BALL POSITION

JEDEC SOLID STATE PRODUCT OUTLINE	TITLE: VERY THIN, FINE-PITCH, STACKABLE BALL GRID 0.50 mm BALL PITCH ARRAY FAMILY	ISSUE: B	DATE: Aug 2007	MO-266	PAGE: 15 OF 20

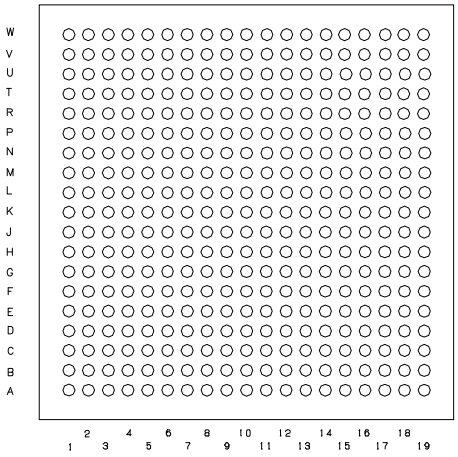
FIGURE 11: BALL AND LAND PATTERNS FOOTPRINTS

3 12 17

VARIATION BD



TOP VIEW



BOTTOM VIEW

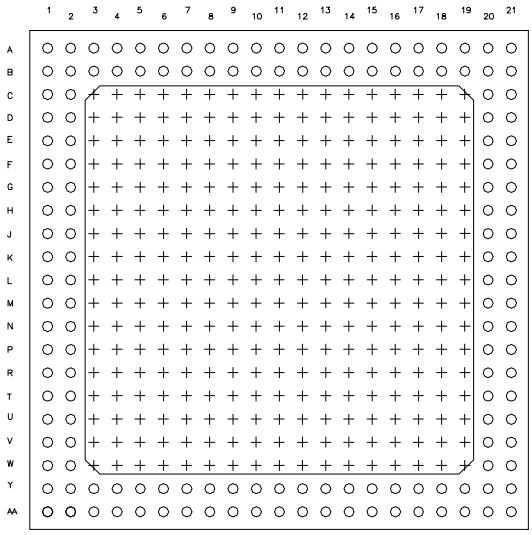
+ = UNPOPULATED BALL POSITION

JEDEC SOLID STATE PRODUCT OUTLINE	TITLE: VERY THIN, FINE-PITCH, STACKABLE BALL GRID 0.50 mm BALL PITCH ARRAY FAMILY	ISSUE: B	DATE: Aug 2007	MO-266	PAGE: 16 OF 20

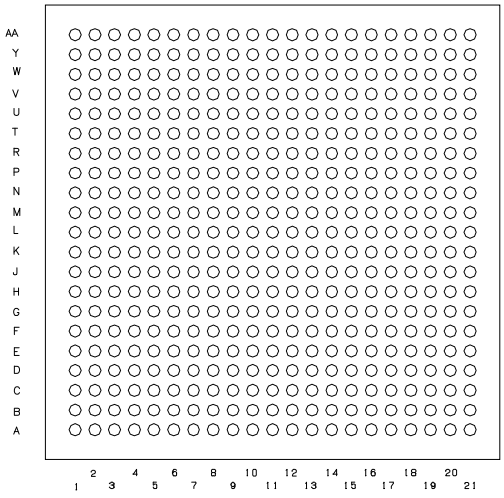
FIGURE 12: BALL AND LAND PATTERNS FOOTPRINTS

△3 △12 △17

VARIATION BE



TOP VIEW



BOTTOM VIEW

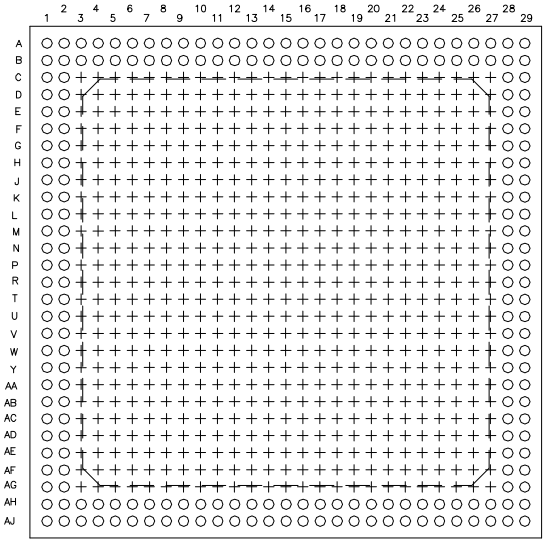
+ = UNPOPULATED BALL POSITION

JEDEC SOLID STATE PRODUCT OUTLINE	TITLE: VERY THIN, FINE-PITCH, STACKABLE BALL GRID 0.50 mm BALL PITCH ARRAY FAMILY	ISSUE: B	DATE: Aug 2007	MO-266	PAGE: 17 OF 20

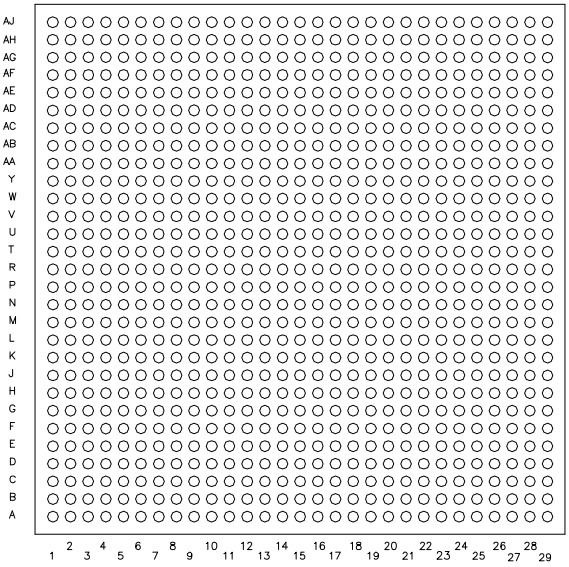
FIGURE 13: BALL AND LAND PATTERNS FOOTPRINTS

△3 △12 △17

VARIATION BF



TOP VIEW



BOTTOM VIEW

+ = UNPOPULATED BALL POSITION

JEDEC SOLID STATE PRODUCT OUTLINE	TITLE: VERY THIN, FINE-PITCH, STACKABLE BALL GRID 0.50 mm BALL PITCH ARRAY FAMILY	ISSUE: B	DATE: Aug 2007	MO-266	PAGE: 18 OF 20

NOTES:

1 DIMENSIONING AND TOLERANCING ARE PER ASME Y14.5M–1994. This registration is in compliance with JEP 95 Sec. 4.22, Fine Pitch, Square Ball Grid Array Package (FBGA) Package on Package (PoP)

2 DIMENSIONS ARE IN MILLIMETERS. ANGLES ARE IN DEGREES.

3 BALL AND LAND DESIGNATIONS ARE PER JEP95, SECTION 3, SPP–010.

4 MD AND ME (BOTTOM SIDE) AS WELL AS MD2 AND ME2 (TOP SIDE) REPRESENT THE MATRIX SIZE CORRESPONDING TO THE D AND E DIRECTIONS RESPECTIVELY.

5 n REPRESENTS THE NUMBER OF BALLS POPULATED ON THE BOTTOM SIDE AND p REPRESENTS THE NUMBER OF LANDS POPULATED ON THE TOP SIDE OF THE PACKAGE FOR EACH VARIATION.

6 THE 20 X 20 TWO ROW LAND (TOP SIDE) MATRIX AND THE 26X 26 FOUR ROW BALL (BOTTOM SIDE) MATRIX IS SHOWN FOR ILLUSTRATION ONLY.

7 DATUM C (SEATING PLANE) IS DEFINED BY THE CROWNS OF THE BALLS.

8 PACKAGE PROFILE HEIGHT (A) INCLUDES STAND–OFF HEIGHT (A1) AND BODY THICKNESS (A2).

9 DIMENSION c IS MEASURED AT THE MAXIMUM LAND DIAMETER AND DIMENSION b IS MEASURED AT THE MAXIMUM BALL DIAMETER IN A PLANE PARALLEL TO DATUM C.

10 THE CORNER A1 MUST BE IDENTIFIED ON BOTH THE BOTTOM AND TOP SIDE OF THE PACKAGE. THE IDENTIFICATION FEATURE CAN BE MADE USING INK OR METALIZED MARKINGS, INDENTATIONS, OR OTHER FEATURES. THE EXACT SHAPE OF EACH CORNER IS OPTIONAL.

11 DIMENSIONS SD AND SE AS WELL AS TD AND TE ARE MEASURED WITH RESPECT TO DATUMS A AND B AND DEFINE THE POSITION OF THE CENTER MOST LANDS AND BALLS IN THE OUTER ROWS FOR A FULLY POPULATED MD X ME OR MD2 X ME2 MATRIX. WHEN THERE IS AN ODD NUMBER OF BALLS OR LANDS IN THE OUTER ROW, SD, TD,SE, AND / OR TE = 0; WHEN THERE IS AN EVEN NUMBER OF BALLS OR LANDS IN THE OUTER ROW, SD/SE = e/2 AND TD/TE = f2.

12 THE LAND AND / OR BALL ARRAY MAY BE DEPOPULATED IN ANY PATTERN. DEPOPULATION IS THE OMISSION OF BALLS FROM A FULL MD X ME OR MD2 X ME2 MATRIX.

13 PARALLELISM (ccc) APPLIES ONLY TO THE SURFACE DIRECTLY ABOVE THE DIE AREA FOR GLOB TOP, OVER MOLDED AND / OR FLIP CHIP CONFIGURATIONS. THE PARALLELISM SPECIFICATION WILL NOT APPLY TO ANY FILLET OR SLOPED REGION OF THE ENCAPSULANT.

14 SEE FIGURES 1 THROUGH 13 FOR ALL BALL AND LAND PATTERNS

15 VARIOUS COMPANIES HAVE ISSUED PATENTS AND RELATED PATENT APPLICATIONS THAT MAY APPLY TO THIS REGISTRATION. IF THE CURRENT ISSUED 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:

COMPANY	U.S. PATENT #S
MICRON TECHNOLOGY	6,048,753
TESSERA	5,950,304; 6,133,627

16 THE SOLDERABLE SURFACE MAY BE DEFINED BY AN OPENING IN THE SOLDER RESIST LAYER (TYPE 1) OR BY THE SIZE OF THE METALLIZED PAD (TYPE 2). IT MAY BE ELLIPTICAL, PROVIDED THE RATIO OF MAJOR TO MINOR AXIS IS NO GREATER THAN 2/1, AND THE SURFACE AREA IS NO LESS THAN THE MINIMUM FOR A CIRCULAR PAD. FOR TYPE 2 DESIGNS, COPPER TRACES ARE PERMITTED OUTSIDE THE b1 AND / OR c PAD AREA.

17 FOR A COMPLETE SET OF DIMENSIONS FOR EACH VARIATION, SEE THE INDIVIDUAL VARIATION TABLE 2 THROUGH 4, BALL AND LAND PATTERNS FIGURE 1 THROUGH 13 AND THE GENERAL TOLERANCES OF FORM AND POSITION TABLE 1.

18 WHEN MORE THAN ONE VARIATION (OPTION) EXISTS FOR THE SAME PROFILE HEIGHT, BODY SIZE (D X E), BALL DIAMETER, BALL PITCH, AND / OR LAND PITCH, THEN THOSE VARIATIONS WILL BE DENOTED BY AN ADDITIONAL DASH NUMBER (i.e.:–1,–2, etc.) DESIGNATOR TO IDENTIFY THEM. THE NEW VARIATIONS WOULD BE CREATED FROM ALL OR ANY OF THE FOLLOWING REASONS: BALL COUNTS, LAND COUNTS AND / OR BALL DIAMETERS.

APPLICATION NOTES:

19 DUE TO THE THICKNESS OF THE LID, ENCAPSULATION OR MOLD CAP OF THE BOTTOM PACKAGE, THE 'A5' VALUES DEFINED IN THIS OUTLINE SHOULD BE COMPATIBLE WITH THE 'B' VALUES OF THE MATCHING UPPER PACKAGE DEFINED IN MO–273. REFER TO DESIGN GUIDE 4.22 FOR THE SUGGESTED VALUES. IF 'A1 MIN' OF THE UPPER PACKAGE IS SMALLER THAN 'A5 MAX' OF THE LOWER PACKAGE, ADDITION OF SOLDER PASTE MAY BE REQUIRED DURING THE JOINING OF THE TWO PACKAGES.

Change Record

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

Initial Issue:	Date:	Item:
A	November 2005	11.11-725
B	August 2007	11.11-769

Change Record History

Issue: B	Date Published: 2007	Item #: 11.11-769
Location	Changed from:	Changed to:
Page 3	Does not exist	Add Table 2, 0.80mm Top Land Pitch for CA
Page 13	Does not exist	Add Figure 7 Ball and Land Patterns Footprint for CA
Page 4	Does not exist	Add new variations AD, AE, and AF to Table 3 for 0.65 mm Top Land Pitches
Page 14,15 and 16	Does not exist	Add new Figures 8, 9 and 10 Ball and Land Patterns Footprints for Variations AD, AE, and AF
Page 5	Does not exist	Add new variations BD, BE, and BF to Table 4 for 0.50 mm Top Land Pitches
Page 17,18 and 19	Does not exist	Add new Figures 11, 12 and 13 Ball and Land Patterns Footprints for Variations BD, BE, and BF
Page 6	Notes 19 and 20	Update Notes 19 and 20 to reflect the proposed 0.65 and 0.50 mm Variations.
Page 6	Does not exist	Add new Application Note 21 to reflect the proposed 0.80 mm Variation
Page 20	Does not exist	Add Change Record