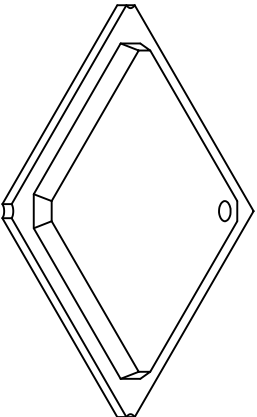


REVISION HISTORY					
REV	REV NUMBER	DESCRIPTION	DESIGNED	DRAWING FILE NAME	DATE
00	C02267	INITIAL RELEASE	LMACK	N/A	09/16/97
01	C05704	MOLD CAP TOLERANCE WAS +0.70/-0.50	MMALT	N/A	04/13/99
02	C15181	MOLD CAP TOLERANCE WAS +0.70/-0.05, ADDED 120, 180-22, AND 178 BALL MATRIX, UPDATE TO MS-034/A, NEW FORMAT	DARNO	N/A	03/13/02



8. REFERENCE SPECIFICATIONS:

- A. AAWW SPEC #001-0531-2234: PACKING OPERATION PROCEDURE;
B. AAWW SPEC #001-0519-2062: MARKING;
C. THIS DRAWING CONFORMS TO THE JEDEC STANDARD MS-034/A VARIATION A/E-1 EXCEPT FOR B. DIMENSION.
D. JEDEC(AAMKOR) DIM 0.50(0.40) 0.60(0.50) 0.70(0.60)

7. A1 BALL PAD CORNER I.D. FOR PLATE MOLD: TO BE MARKED BY INK.
AUTO MOLD: DIMPLE TO BE FORMED BY MOLD CAP.

6. PRIMARY DATUM C AND SEATING PLANE ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.

5. DIMENSION IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM C.

4. THE MAXIMUM ALLOWABLE NUMBER OF SOLDER BALLS IS 196.

3. THE MAXIMUM SOLDER BALL MATRIX SIZE IS 14 X 14.

2. THE BASIC SOLDER BALL GRID PITCH IS 1.00mm.

1. ALL DIMENSIONS AND TOLERANCES CONFORM TO ASME Y14.5M-1994.

NOTES: UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS			
DECIMAL	ANGLES	±	1/16"
XX.XX	XX°XX'		
XX.XX	XX°XX'		
XX.XX	XX°XX'		
INTERPRET DIM AND TOL PER ASME Y14.5M - 1994			
UNIT(S)	N/A		
FINISH	N/A		
DO NOT SCALE DRAWING			
THIRD ANGLE PROJECTION		APPROVALS	
		DESIGNED BY	DATE
		L. MACKIEY	08/28/97
		D. ARNOLD	08/28/97
		PROJECT MANAGER	
		B. GOGUE	08/28/97
		Y.M. KANG	09/11/97
		DATE	
		A3	
		REV	
		196 NUMBER	
		N/A	
		DATE	
		72797	
		02	
		1 OF 5	



Amkor Technology, Inc.
Chandler, Arizona, USA
Amkor Technology, Inc.
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PACKAGE OUTLINE - PBGA CUSTOM, 14 X 14 MATRIX, 15.00mm X 15.00mm, 13.00mm X 13.00mm X 0.85mm MOLD CAP, 1.00mm PITCH, LAMINATE SUBSTRATE, AAWW

DATE 09/11/97

REV 02

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