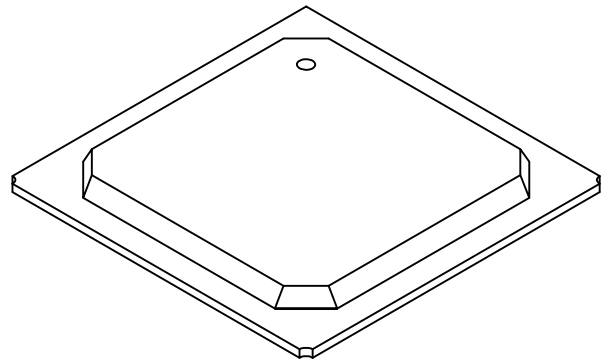
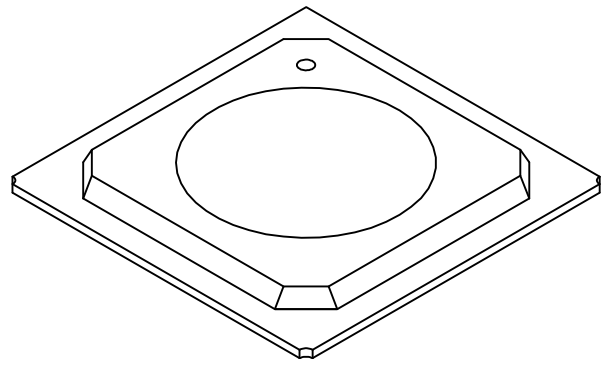
REVISION HISTORY

REV	DCN NUMBER	DESCRIPTION	ORIGINATOR	DATABASE FILE NAME	GERBER FILE NAME	INCORPORATOR	DATE
02	C05707	CHANGED CAP TOLERANCE	MWALT	N/A	N/A	MWALT	03/23/99
03	C06663	ADDED 233 BALL COUNT	GREME	N/A	N/A	GREME	08/17/99
04	C09629	ADDED 177 BALL COUNT	GREME	N/A	N/A	PGONZ	07/14/00
05	C13234	REVISED TO JEDEC MS-034	JTURN	N/A	N/A	DARNO	08/28/01
06	C14116	ADDED TEPBGA-2 PACKAGE ADDED 208, 217, 240 AND 249 MATRIX	DARNO	N/A	N/A	DARNO	11/08/01
07	C20673	REMOVED CENTER BALL FROM 192 BALL	SMKANG	N/A	N/A	SMKANG	12/16/02
08	N/A	REVISED THICKNESS SCHEDULE ON SHEET 2	DLADI	N/A	N/A	DLADI	04/14/05



PBGA
TEPBGA



TEPBGA-2

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 REGISTERED OUTLINE MS-034/A, VARIATION BAJ-2.

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 289.

3. THE MAXIMUM SOLDER BALL MATRIX SIZE IS 17 X 17.

2. THE BASIC SOLDER BALL GRID PITCH IS 1.27mm.

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

NOTES: UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS
DECIMAL: X.X ±0.1, X.XX ±0.05, X.XXX ±0.030
ANGULAR: ±1°
INTERPRET DIM AND TOL PER ASME Y14.5M - 1994
MATERIAL: N/A
FINISH: N/A
DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

APPROVALS	DATE
DESIGNED A. COPIA	08/15/97
CHECKED D. ARNOLD	08/15/97
PRODUCT MANAGER B. GOGUE	08/15/97
RELEASED Y.M. KANG	11/18/97

Amkor Technology, Inc.
Chandler, Arizona, USA
Anam Semiconductor, Inc.,
Seoul, Korea
Amkor Technology Philippines, Inc.
Manila, Philippines

Amkor Technology / ANAM Semiconductor

TITLE: PACKAGE OUTLINE - PBGA CUSTOM, 17 X 17 MATRIX
23.00mm X 23.00mm, 19.50mm X 19.50mm X 1.17mm
MOLD CAP, 1.27mm PITCH, LAMINATE SUBSTRATE, AWW

SIZE	SID NUMBER	DWG NUMBER	REV
A3	N/A	72738	08

STRIP DWG NUMBER/REV	PKG OUTLINE DWG NO.	SCALE	SHEET
N/A	N/A	NONE	1 OF 7