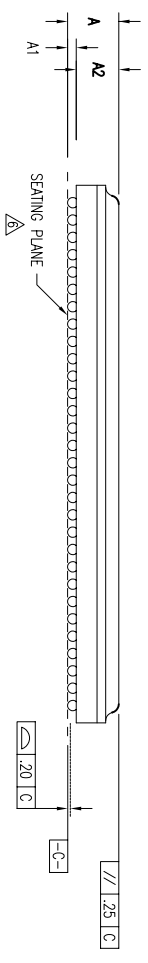
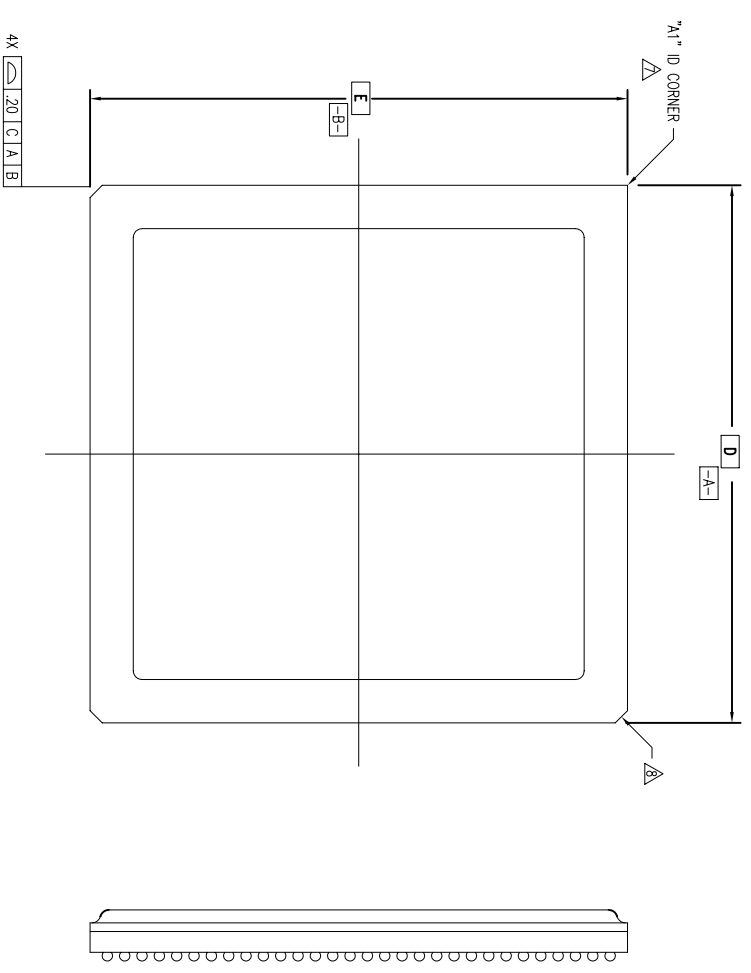
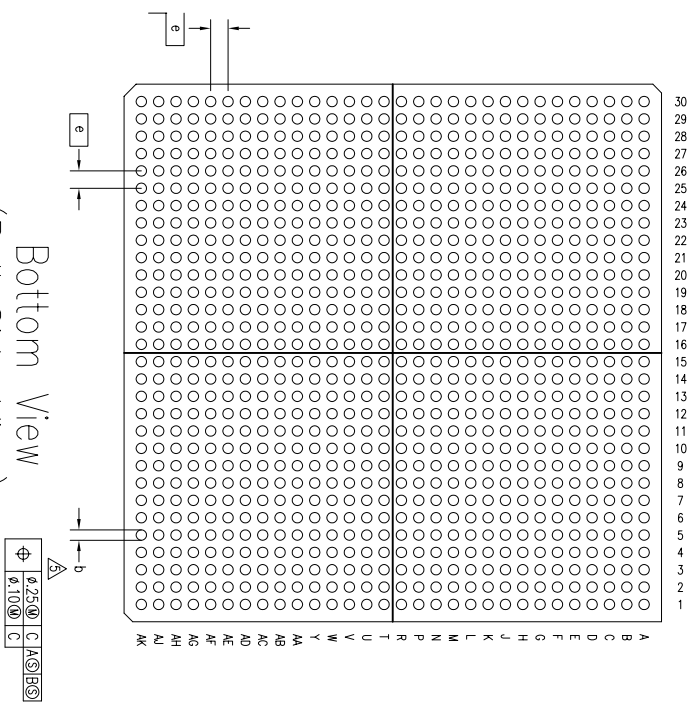



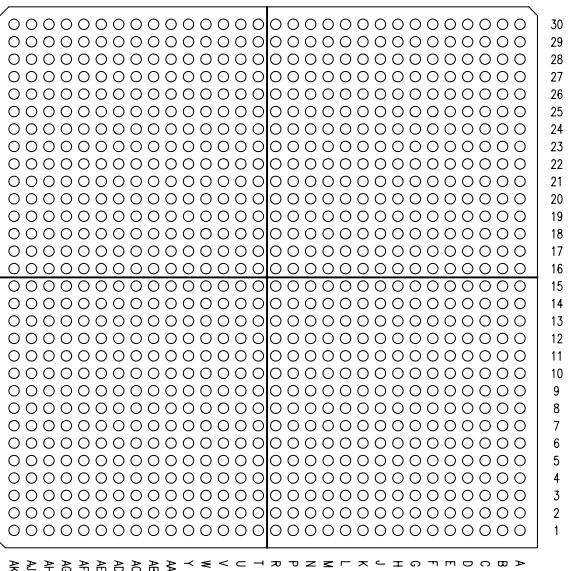
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	09/12/06	TV
01	COMBINE POD & LAND PATTERN	06/03/13	KS



Bottom View  
(Ball Side View)



TOLERANCES UNLESS SPECIFIED		 6024 Silver Creek Valley Rd San Jose, CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-3572	
DECIMAL	ANGULAR	TITLE AL/AR PACKAGE OUTLINE	
X± .05	Z± .05	31.0 x 31.0 mm BODY	
XXX± .030		1.00 mm PITCH FCBCGA	
APPROVALS	DATE	SIZE	DRAWING No.
DRAWN <i>JPP</i>	09/12/06	C	PSC-4201
CHECKED		DO NOT SCALE DRAWING	REV 01
			SHEET 1 OF 3




# 900 BALLS

SYMBOL	JEDEC VARIATION			NOTES
	MIN	NOM	MAX	
A	—	—	3.42	
A1	.30	—	—	
A2	2.16	—	2.82	
D	31.00 BSC			
E	31.00 BSC			
M	34			3
N	900			4
e	1.00 BSC			
b	.50	.60	.70	5
CENTER BALL MATRIX	N/A			

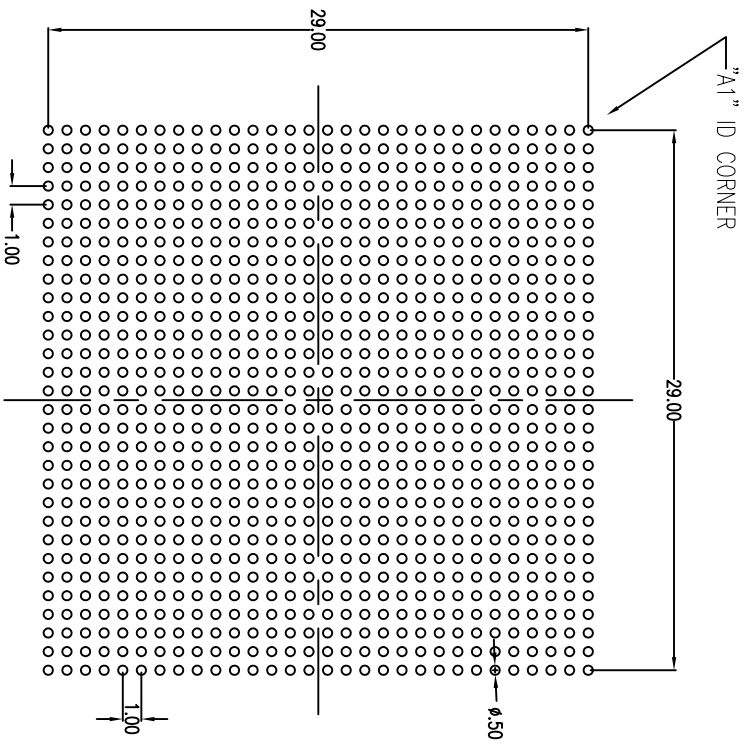
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	09/12/06	TV
01	COMBINE POD & LAND PATTERN	06/03/13	KS

### 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
- DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM  $\text{---C---}$
- SEATING PLANE AND PRIMARY DATUM  $\text{---C---}$  ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS
- "A1" ID CORNER MUST BE IDENTIFIED BY CHAMFER, INK MARK, METALLIZED MARKING, INDENTATION OR OTHER FEATURE ON PACKAGE BODY
- EXACT SHAPE OF EACH CORNER IS OPTIONAL
- ALL DIMENSIONS ARE IN MILLIMETERS


<b>TOLERANCES UNLESS SPECIFIED</b> DECIMAL ANGULAR XX.X .05 E1 XXXX .030		 <b>San Jose, CA 95138</b> PHONE: (408) 284-8200 FAX: (408) 284-3572
APPROVALS DRAWN <i>JGP</i> CHECKED	DATE 09/12/06	
TITLE <b>AL/AR PACKAGE OUTLINE</b> 31.0 x 31.0 mm BODY 1.00 mm PITCH FCBGA		6024 Silver Creek Valley Rd San Jose, CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-3572
SIZE DRAWING No.	C PSC-4201	REV 01
DO NOT SCALE DRAWING		SHEET 2 OF 3

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	09/12/06	TV
01	COMBINE POD & LAND PATTERN	06/03/13	KS



RECOMMENDED LAND PATTERN DIMENSION

- 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			
DECIMAL	ANGULAR	6024 Silver Creek Valley Rd San Jose, CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-3572	
XX± .05	±1°	www.IDT.com	
XXX± .030		TITLE AL/AR PACKAGE OUTLINE	
APPROVALS	DATE	31.0 x 31.0 mm BODY	
DRAWN <i>gjp</i>	09/12/06	1.00 mm PITCH FCBGA	
CHECKED		SIZE DRAWING No. PSC-4201	
		DO NOT SCALE DRAWING	
		SHEET 3 OF 3	