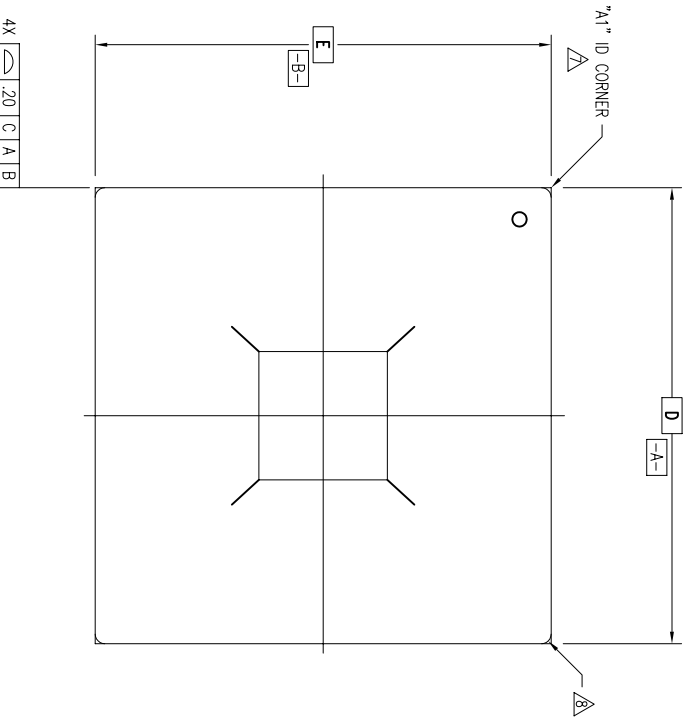
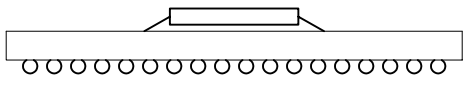


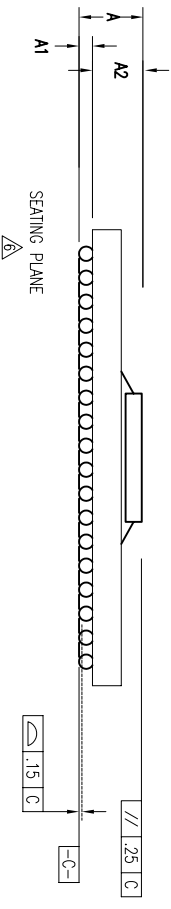
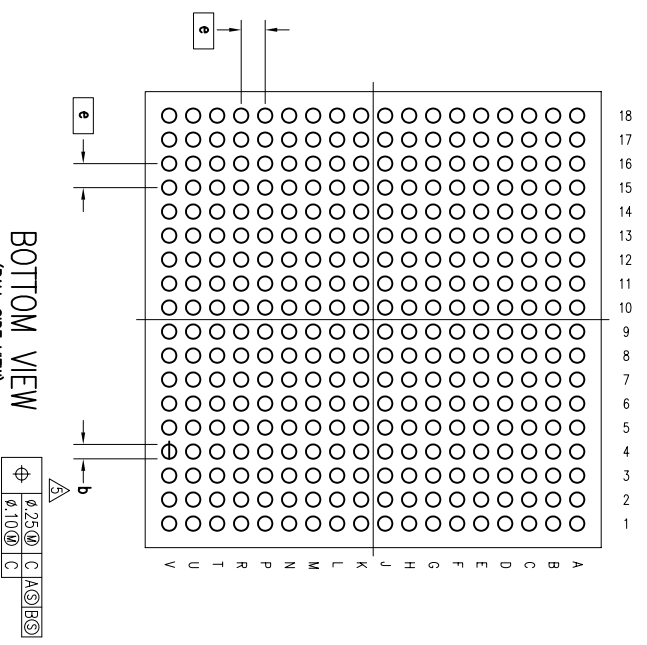
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	03/04/10	DP
01	ADD HM324	04/06/10	DP
02	COMBINE POD & LAND PATTERN	05/29/13	KS



TOP VIEW



BOTTOM VIEW
(BALL SIDE VIEW)

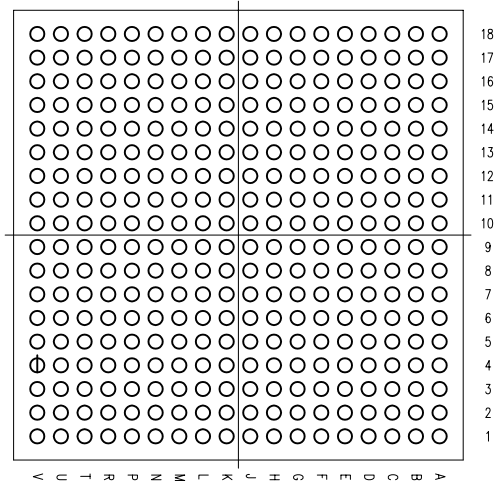


TOLERANCES UNLESS SPECIFIED		 www.idt.com 6024 SILVER CREEK VALLEY ROAD, SAN JOSE CA, 95138 PHONE: (408) 294-8200 FAX: (408) 294-8591
DECIMAL	±	
ANGULAR	±	
XXXXX	±	
APPROVALS	DATE	TITLE
DRAWN <i>gop</i>	03/04/10	RM/HM 324 PACKAGE OUTLINE
CHECKED		19.0 X 19.0 mm BODY
		1.00 mm BALLPITCH FCBCA
SIZE	DRAWING No.	REV
C	PSC-4305	02
DO NOT SCALE DRAWING		SHEET 1 OF 3

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	03/04/10	DP
01	ADD HM324	04/08/10	DP
02	COMBINE POD & LAND PATTERN	05/29/13	KS

NOTES:

- 1 ALL DIMENSIONING AND TOLERANCING CONFORM TO ANSI Y14.5M-1982
 - 2 "e" REPRESENTS THE BASIC SOLDER BALL GRID PITCH
 - 3 "N" 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 ---C---
- △ SEATING PLANE AND PRIMARY DATUM ---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
- 9 ALL DIMENSIONS ARE IN MILLIMETERS

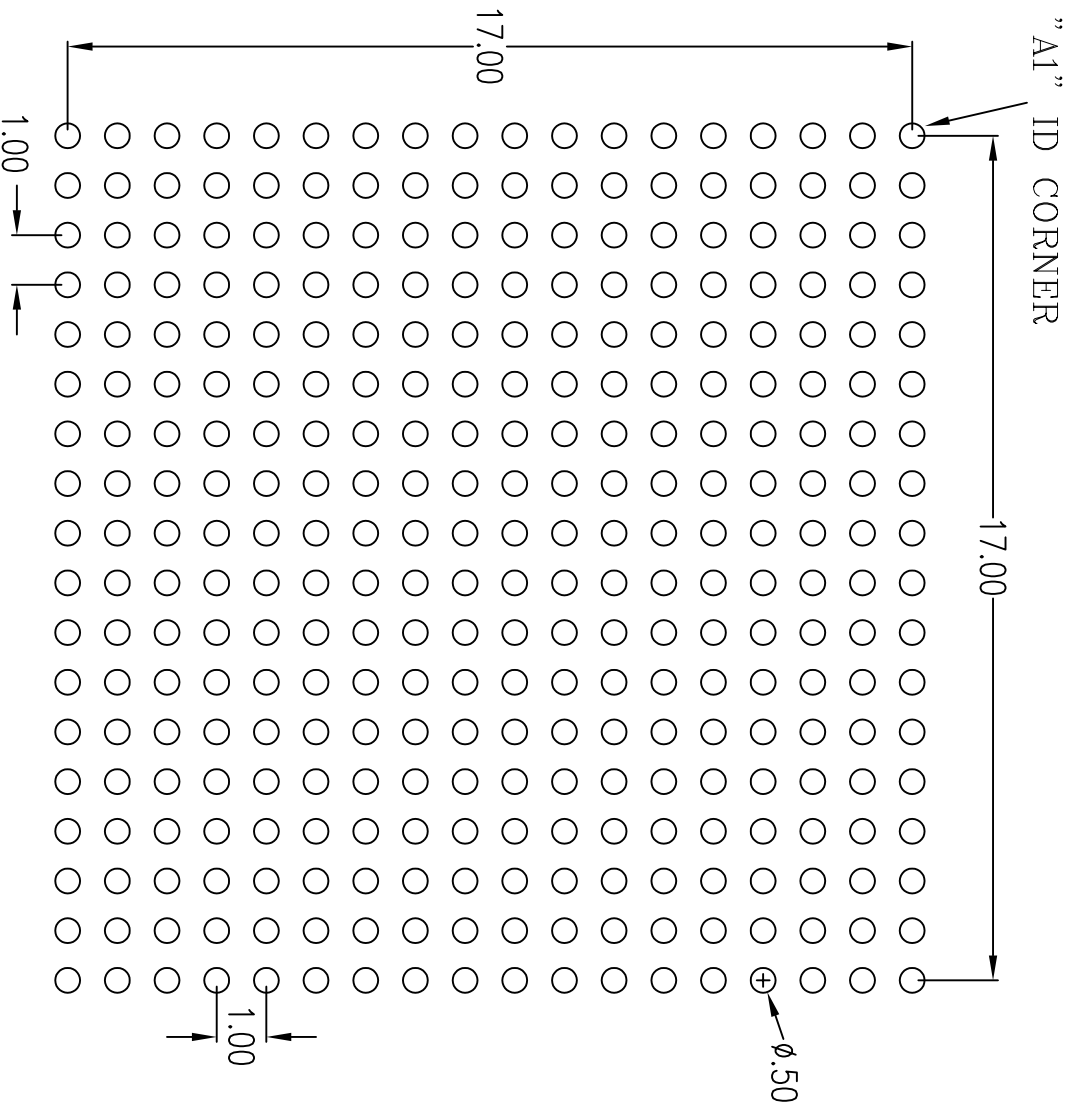


BOTTOM VIEW
(BALL SIDE VIEW)


SYMBOL	JEDEC VARIATION			NOTE
	MIN	NOM	MAX	
A	—	—	2.75	
A1	.30	—	—	
A2	1.35	—	2.25	
D	19.00 BSC			
E	19.00 BSC			
M	18			3
N	324			4
e	1.00 BSC			
b	.50	.60	.70	5
CENTER BALL MATRIX	N/A			

TOLERANCES UNLESS SPECIFIED		6024 SILVER CREEK	
DECIMAL	ANGULAR	VALLEY ROAD	
±	±	SAN JOSE, CA. 95138	
±	±	PHONE: (408) 284-8200	
±	±	FAX: (408) 284-8591	
±	±	www.IDT.com	
APPROVALS	DATE	TITLE	
DRWN <i>JSP</i>	03/04/10	RM/HM 324 PACKAGE OUTLINE	
CHECKED		19.0 X 19.0 mm BODY	
		1.00 mm BALLPITCH FCBGA	
SIZE	DRAWING No.	PSC-4305	REV
C			02
DO NOT SCALE DRAWING			SHEET 2 OF 3

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	03/04/10	DP
01	ADD HM324	04/06/10	DP
02	COMBINE POD & LAND PATTERN	05/29/13	KS



RECOMMENDED LAND PATTERN DIMENSION

TOLERANCES UNLESS SPECIFIED		 6024 SILVER CREEK VALLEY ROAD SAN JOSE CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-8591
DECIMAL	±	
ANGULAR	±	
XXX±	XXX±	
APPROVALS	DATE	TITLE
DRAWN: <i>RA</i>	06/12/12	RW/HM 324 PACKAGE OUTLINE
CHECKED		19.0 X 19.0 mm BODY
		1.00 mm BALLPITCH FCBGA
	SIZE	DRAWING No.
	C	PSC-4305
	REV	02
DO NOT SCALE DRAWING		SHEET 3 OF 3