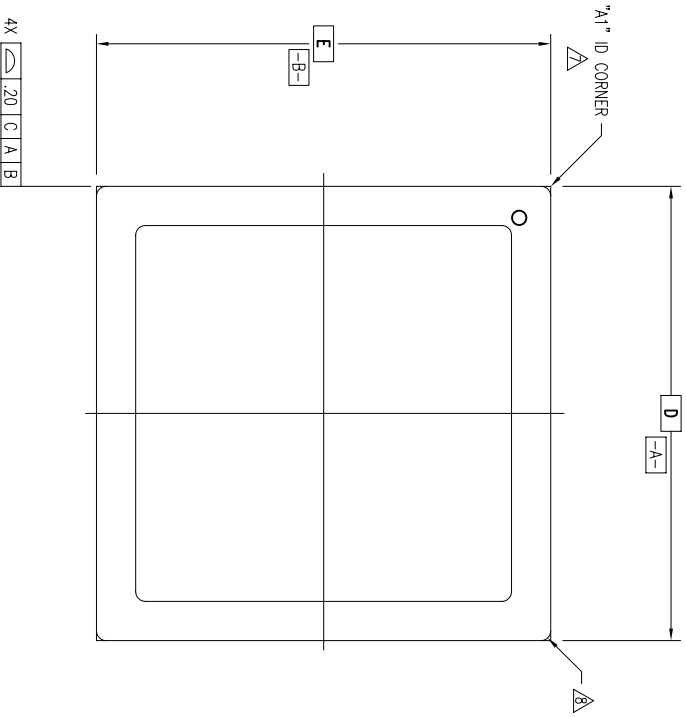
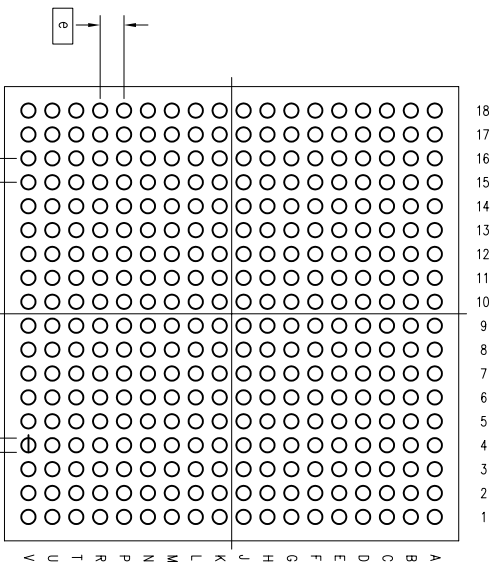
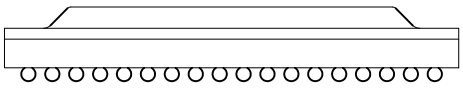


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	09/25/09	DP
01	ADD PKG HEIGHT ".A" MIN & NOM	06/21/11	JC
02	COMBINE POD & LAND PATTERN	05/29/13	KS

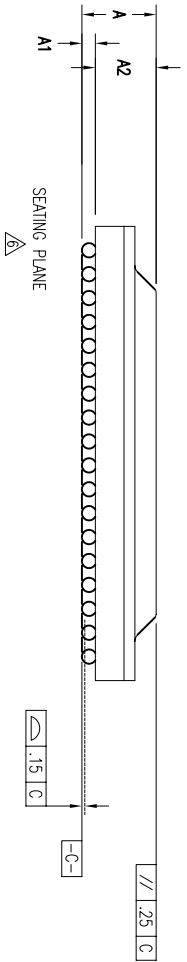


TOP VIEW




BOTTOM VIEW
(BALL SIDE VIEW)

ϕ	ϕ .250	C	A	(B)
	ϕ .100	C		
		C		



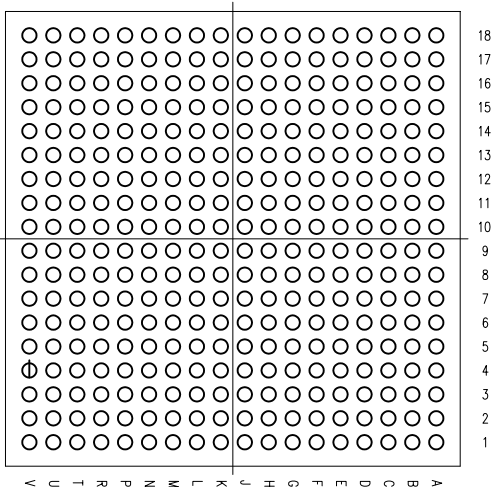
SEATING PLANE

TOLERANCES UNLESS SPECIFIED		 IDT	6024 Silver Creek Valley Rd San Jose, CA, 95138 PHONE: (408) 284-8333 FAX: (408) 284-8591	
DECIMAL	±		www.idt.com	
ANGULAR	±		HL/HLG 324 PACKAGE OUTLINE	
XXX°			DRAWN: DP 09/25/09	
APPROVALS	DATE	SIZE	DRAWING NO.	REV
CHECKED	09/25/09	C	PSC-4288	02
DO NOT SCALE DRAWING				
				SHEET 1 OF 3

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	09/25/09	DP
01	ADD PKG HEIGHT "A" MIN & NOM	06/21/11	JG
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 "M" REPRESENTS THE MAXIMUM SOLDER BALL MATRIX SIZE
- 4 "N" REPRESENTS THE BALLCOUNT NUMBER
- 5 DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM ---C---
- 6 SEATING PLANE AND PRIMARY DATUM ---C--- ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS
- 7 "A1" ID CORNER MUST BE IDENTIFIED BY CHAMFER, INK MARK, METALLIZED MARKING, INDENTATION OR OTHER FEATURE ON PACKAGE BODY
- 8 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	
LOL	2.38	2.63	2.88	
A	0.30	—	—	
A1	1.76	—	2.42	
A2	—	—	—	
D	19.00	BSC		
E	19.00	BSC		
M	18		3	
N	324		4	
e	1.00	BSC		
b	0.50	0.60	0.70	5
CENTER BALL MATRIX	N/A			

TOLERANCES UNLESS SPECIFIED		 6024 Silver Creek Valley Rd. San Jose, CA 95138 PHONE: (408) 284-8333 FAX: (408) 284-8591	
DECIMAL	ANGULAR	TITLE	HL/HG324 PACKAGE OUTLINE
XXX±	XXX±	DRAWN	19.0 X 19.0 mm BODY
XXXX±	XXXX±	CHECKED	1.00 mm BALLPITCH FCBGA
APPROVALS	DATE	SIZE	DRAWING NO.
DP	09/25/09	C	PSC-4288
			REV
			02
DO NOT SCALE DRAWING		SHEET 2 OF 3	

