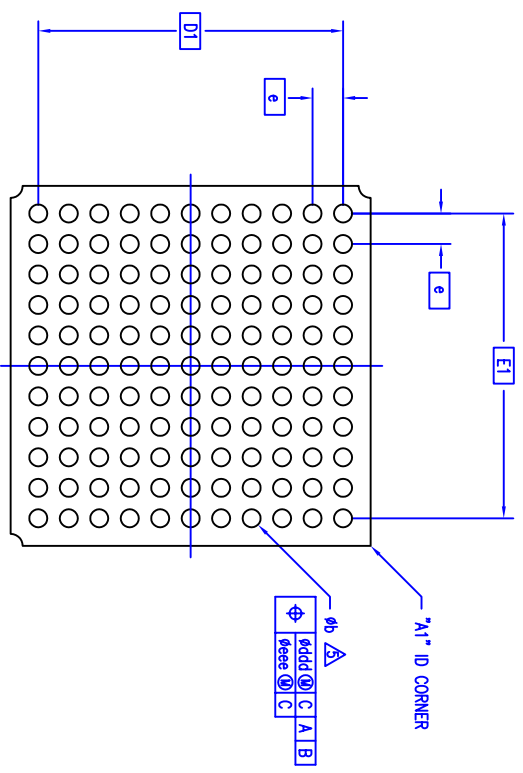
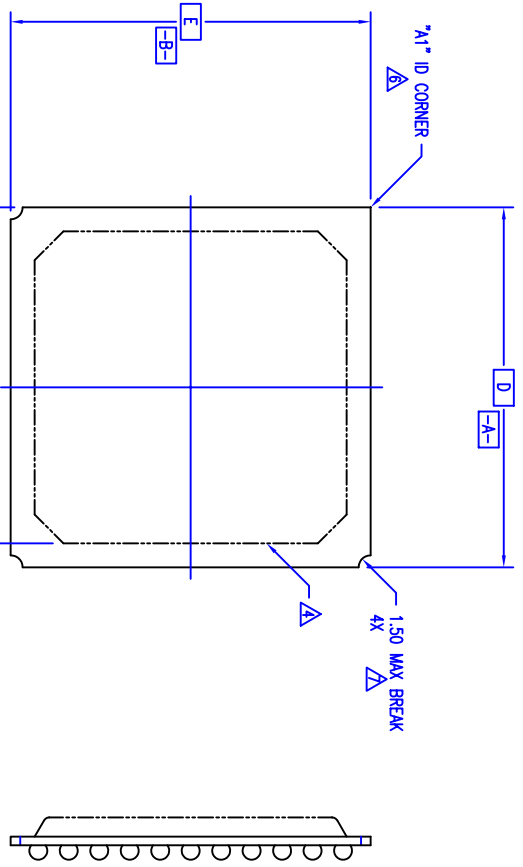
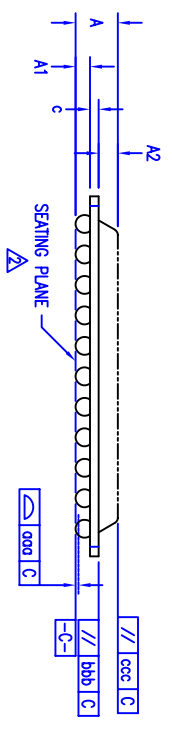



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	02/18/94	D.G.
01	ADD 74 BALL	06/11/98	D.G.
02	COMBINE POD & LAND PATTERN	06/05/13	KS

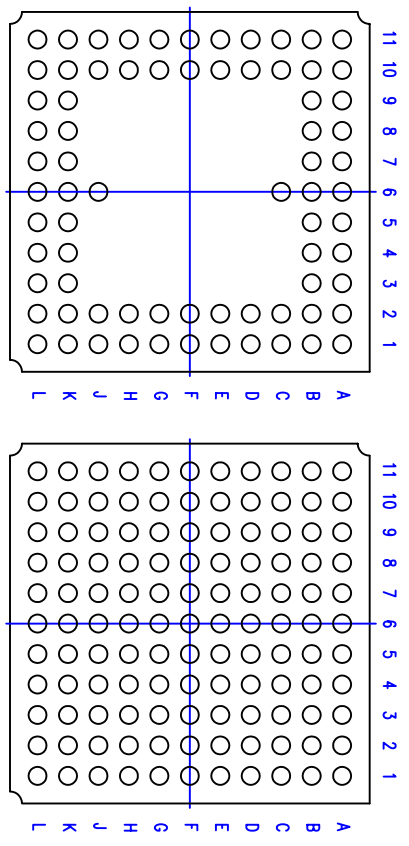


(121 BALL SHOWN)



TOLERANCES UNLESS SPECIFIED		 <b>IDT</b> 6024 SILVER CREEK VALLEY ROAD San Jose, CA 95138 PHONE: (408) 284-8200 FAX: (408) 492-8674 www.idt.com
DECIMAL	±	
ANGULAR	±	
XXX±		
APPROVALS	DATE	TITLE
DRAWN <b>Ad</b>	02/18/94	BG PACKAGE OUTLINE
CHECKED		15.0 X 15.0 mm BODY
		PBGA
	SIZE <b>C</b>	DRAWING NO. <b>PSC-4042</b>
		REV <b>02</b>
DO NOT SCALE DRAWING		SHEET 1 OF 3

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	02/18/94	D.G.
01	ADD 74 BALL	06/11/98	D.G.
02	COMBINE POD & LAND PATTERN	06/05/13	KS



NOTES:

- 1 ALL DIMENSIONING AND TOLERANCING CONFORM TO ANSI Y14.5M-1982
- SEATING PLANE AND PRIMARY DATUM  $\boxed{-C-}$  ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS
- 3 "MD" IS THE BALL MATRIX SIZE IN THE "D" DIRECTION  
"ME" IS THE BALL MATRIX SIZE IN THE "E" DIRECTION  
"N" IS THE NUMBER OF SOLDER BALLS
- PACKAGE MAY EXTEND TO EDGE PERIPHERY AND MAY CONSIST OF MOLDING COMPOUND, EPOXY, METAL, CERAMIC OR OTHER MATERIAL
- DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM  $\boxed{-C-}$
- "A1" ID CORNER MUST BE IDENTIFIED. IDENTIFICATION MAY BE BY MEANS OF CHAMFER, METALIZED OR INK MARK, INDENTATION OR OTHER FEATURE OF THE PACKAGE BODY. MARK MUST BE VISIBLE FROM TOP SURFACE
- ACTUAL SHAPE OF THIS FEATURE IS OPTIONAL
- 8 ALL DIMENSIONS ARE IN MILLIMETERS
- 9 THIS DRAWING CONFORMS TO JEDEC PUBLICATION 95 REGISTRATION MO-151, VARIATION BAE-1

SYMBOL	JEDEC VARIATION			N P T E	JEDEC VARIATION			N P T E
	MIN	NOM	MAX		BAE-1	MIN	NOM	
A	-	2.15	3.50	-	2.15	3.50	-	-
A1	.50	.60	.70	.50	.60	.70	-	-
A2	-	-	2.50	-	-	2.50	-	-
D	15.00 BSC			15.00 BSC			-	-
D1	12.70 BSC			12.70 BSC			-	-
E	15.00 BSC			15.00 BSC			-	-
E1	12.70 BSC			12.70 BSC			-	-
MD	11			11			-	-
ME	11			11			-	-
N	74			121			-	-
e	1.27 BSC			1.27 BSC			-	-
b	.60	.75	.90	.60	.75	.90	-	-
c	.10	-	2.50	.10	-	2.50	-	-
ccc	-	-	.20	-	-	.20	-	-
bbb	-	-	.25	-	-	.25	-	-
ccc	-	-	.35	-	-	.35	-	-
ddd	-	-	.30	-	-	.30	-	-
eee	-	-	.15	-	-	.15	-	-

**TOLERANCES UNLESS SPECIFIED**

DECIMAL	±	ANGULAR	±
XXX		XXXX	
XXXX		XXXX	

APPROVALS: DRAWN **AD** DATE 02/18/94

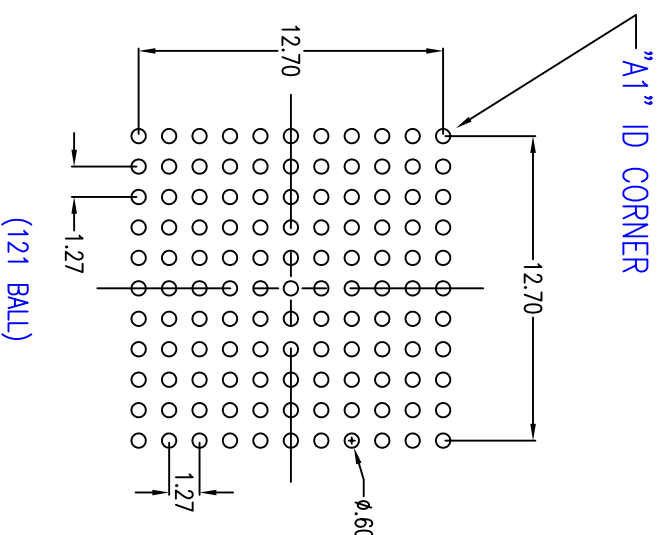
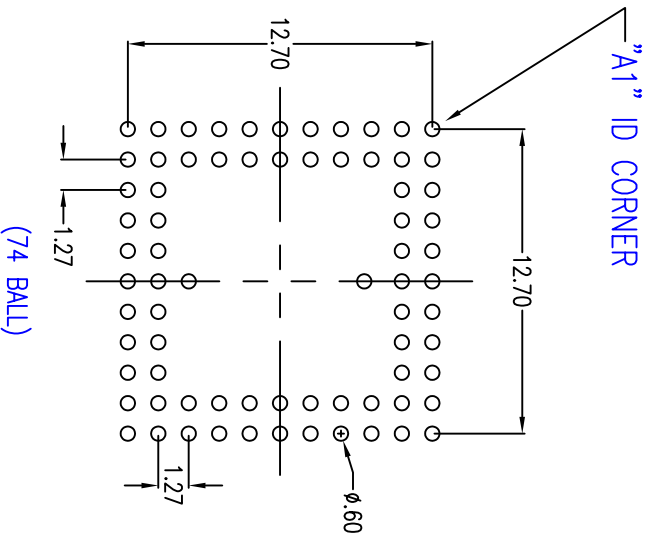
**IDT** 6024 SILVER CREEK VALLEY ROAD  
San Jose, CA 95138  
PHONE: (408) 284-8200  
FAX: (408) 492-8674

TITLE: BG PACKAGE OUTLINE  
15.0 X 15.0 mm BODY  
PBGA

SIZE: **C** DRAWING NO: **PSC-4042** REV: **02**

CHECKED: DO NOT SCALE DRAWING SHEET 2 OF 3

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	02/18/94	D.G.
01	ADD 74 BALL	06/11/98	D.G.
02	COMBINE POD & LAND PATTERN	06/05/13	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		IDT 6024 SILVER CREEK VALLEY ROAD San Jose, CA 95138 PHONE: (408) 284-8200 FAX: (408) 492-8674	
DECIMAL	ANGULAR	www.IDT.com	
XXX±	±		
XXXX±			
APPROVALS	DATE	TITLE	REV
DRAWN <b>Ad</b>	02/18/94	BG PACKAGE OUTLINE	02
CHECKED		15.0 X 15.0 mm BODY	
		PBGA	
		SIZE <b>C</b>	DRAWING NO. <b>PSC-4042</b>
		DO NOT SCALE DRAWING	SHEET <b>3</b> OF <b>3</b>