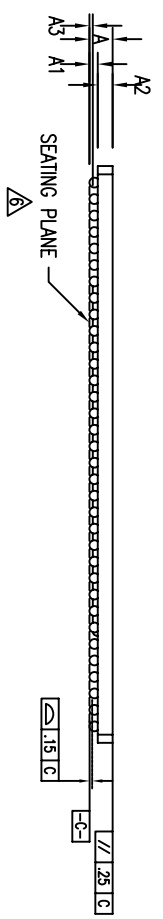
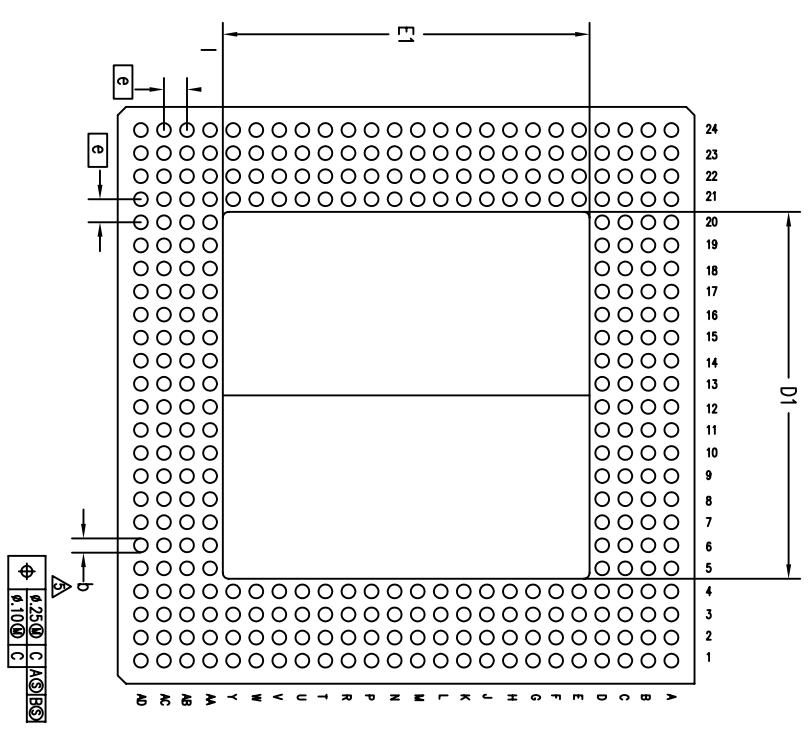
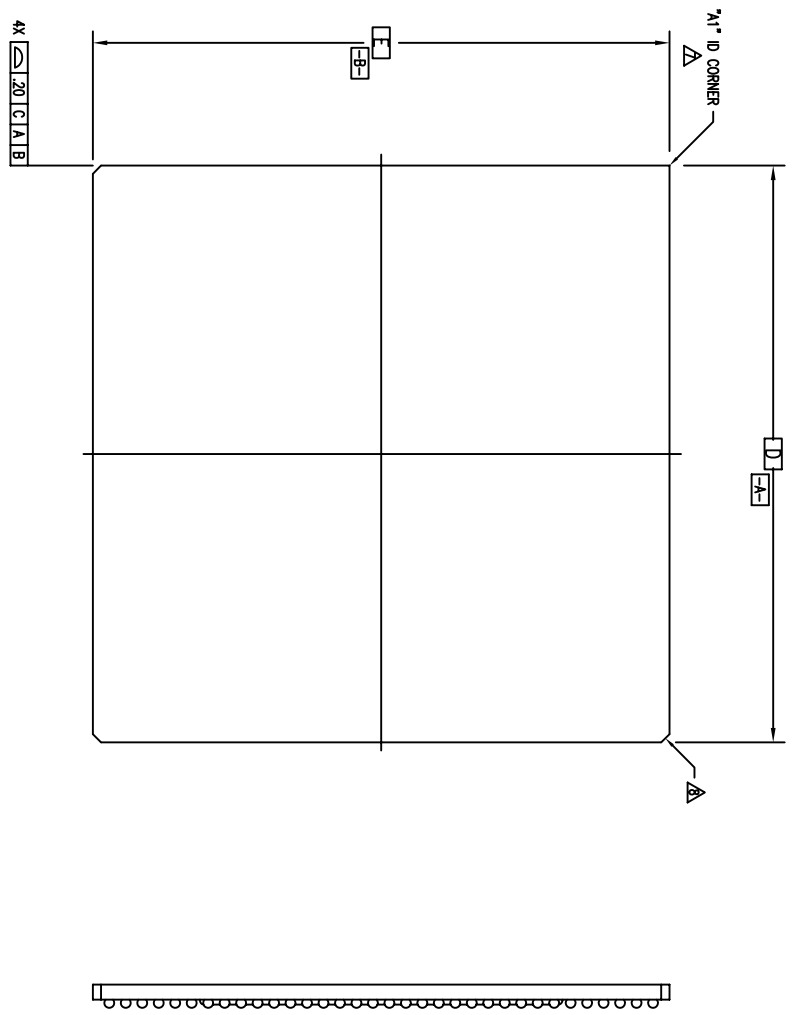
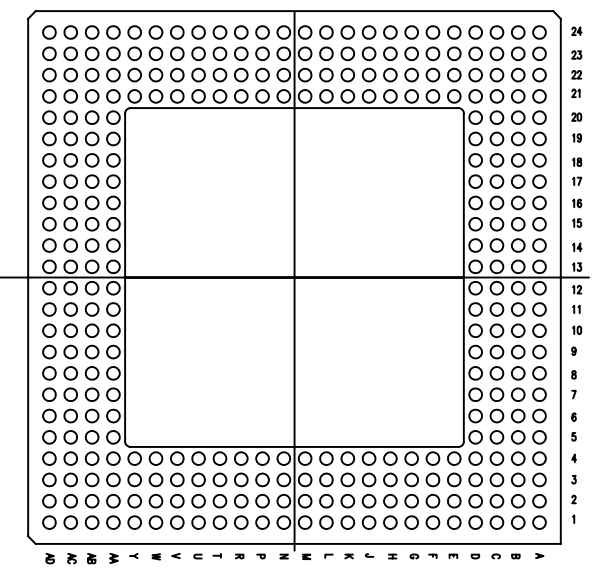


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	06/01/05	DP
01	UPDATE COPLANARITY	10/04/07	DP
02	COMBINE POD & LAND PATTERN	06/12/13	KS



TOLERANCES UNLESS SPECIFIED		IDT 6024 SILVER CREEK VALLEY ROAD	
DECIMAL	ANGULAR	San Jose, CA 95138	
XXX±	±	www.idt.com	
XXXX±		PHONE: (408) 284-8200	
XXXX±		FAX: (408) 492-8674	
APPROVALS	DATE	TITLE	
DRAWN <i>JP</i>	06/01/05	BX 320 PACKAGE OUTLINE	
CHECKED		25.0 X 25.0 mm BODY	
		1.0 mm BALL PITCH SBGA	
SIZE	DRAWING No.	REV	
C	PSC-4150	02	
DO NOT SCALE DRAWING			
SHEET 1 OF 3			

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	06/01/05	DP
01	UPDATE COMPLIABILITY	10/04/07	DP
02	COMBINE POD & LAND PATTERN	06/12/13	KS



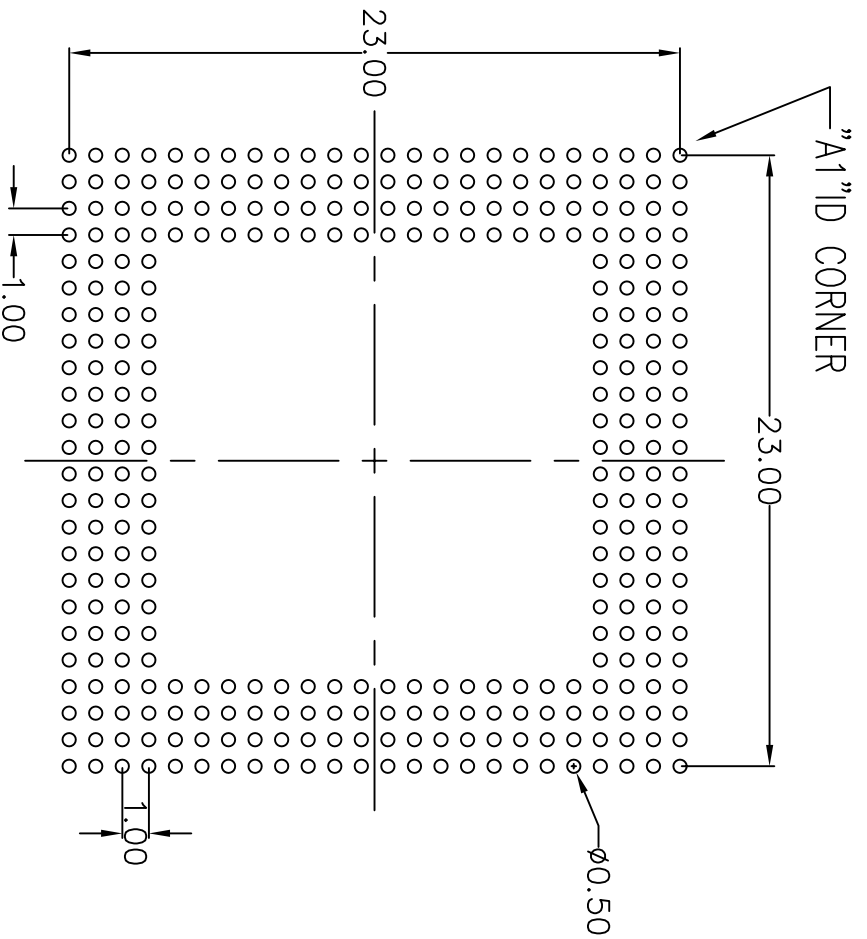
SYMBOL	JEDEC VARIATION			NOTE
	MIN	NOM	MAX	
A	-	-	1.70	
A1	.30	-	-	
A2	.25	-	1.10	
A3	.15	-	-	
D	25.00 BSC			
D1	-	-	15.9	
E	25.00 BSC			
E1	-	-	15.9	
M	24 (DEPOPULATED)			3
N	320			4
e	1.00 BSC			
b	.50	.60	.70	5
CENTER BALL MATRIX	N/A			

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
- 5 DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM $\boxed{-C-}$
- 6 SEATING PLANE AND PRIMARY DATUM $\boxed{-C-}$ 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

TOLERANCES UNLESS SPECIFIED DECIMAL ± ANGULAR ± XXXX XXXX XXXX		IDT 6024 SILVER CREEK VALLEY ROAD San Jose, CA 95138 PHONE: (408) 284-8200 FAX: (408) 492-8674 www.IDT.com	
APPROVALS	DATE	TITLE	REV
DRAWN <i>DP</i>	06/07/05	BX 320 PACKAGE OUTLINE	02
CHECKED		25.0 X 25.0 mm BODY	
		1.0 mm BALL PITCH SRGA	
		SIZE C DRAWING No. PSC-4150	
		DO NOT SCALE DRAWING	SHEET 2 OF 3

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	06/01/05	DP
01	UPDATE COPLANARITY	10/04/07	DP
02	COMBINE POD & LAND PATTERN	06/12/13	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		DATE	
DECIMAL	ANGULAR	06/01/05	
XXX±	±		
XXXX±			
XXXX±			
APPROVALS		TITLE	
DRAWN <i>DP</i>	DATE	BX 320 PACKAGE OUTLINE	
CHECKED	06/01/05	25.0 X 25.0 mm BODY	
		1.0 mm BALL PITCH SRGA	
		SIZE	REV
		C	02
DO NOT SCALE DRAWING		PSC-4150	
		SHEET 3 OF 3	

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