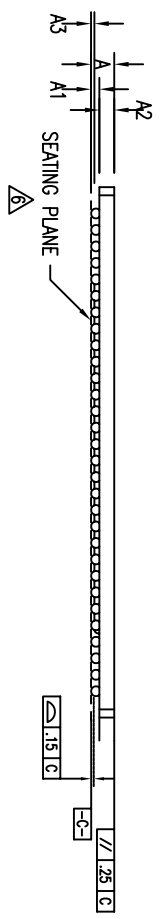
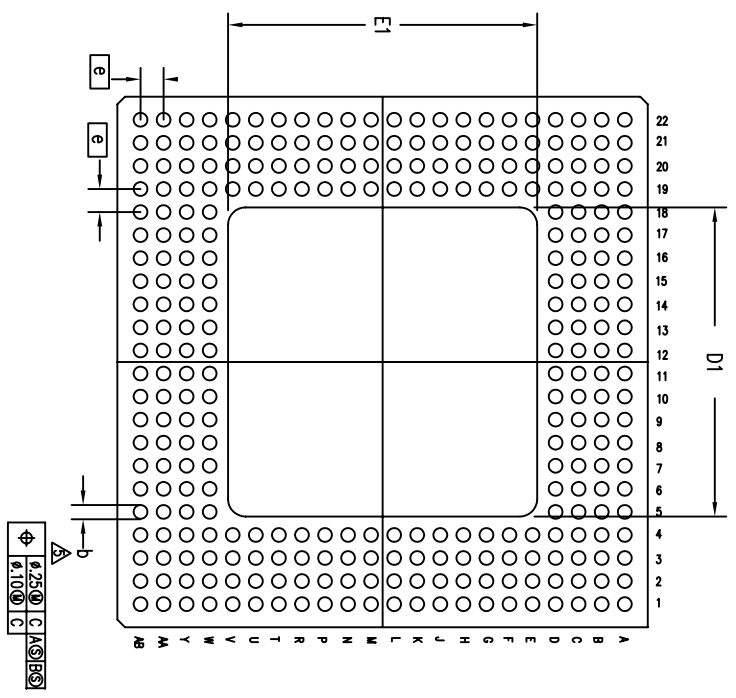
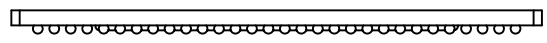
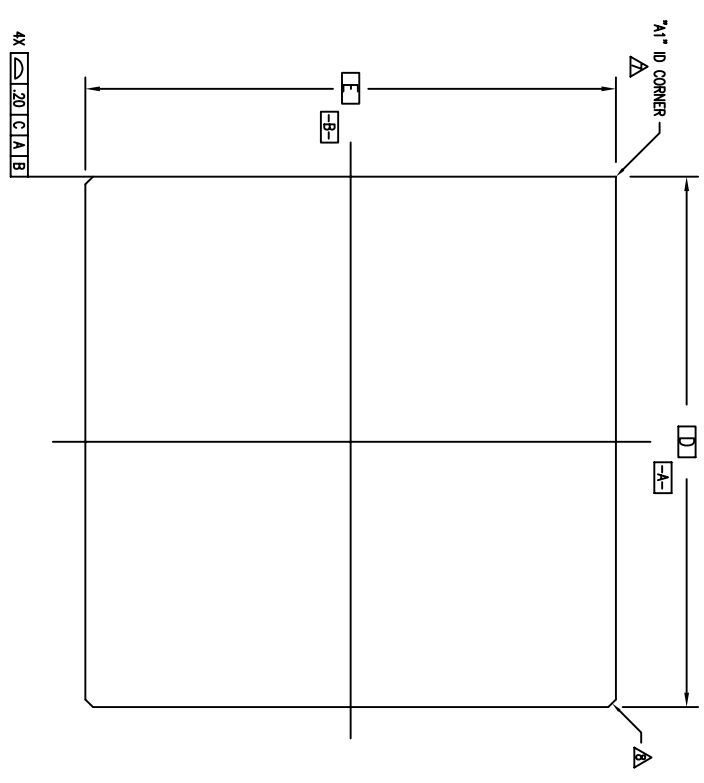


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	02/27/07	DP
01	UPDATE COPLANARITY	10/04/07	DP
02	COMBINE POD & LAND PATTERN	06/10/13	KS

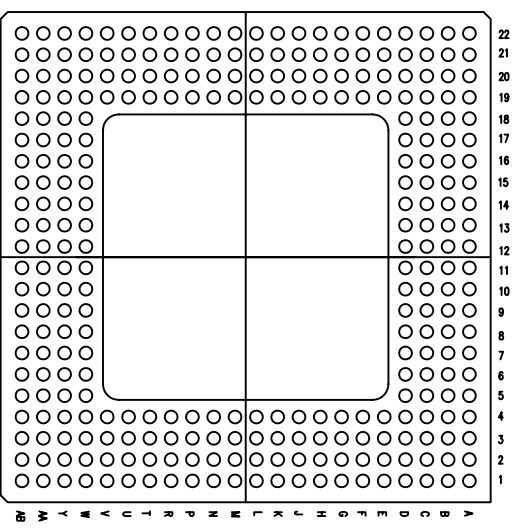


TOLERANCES UNLESS SPECIFIED	
DECIMAL	±
ANGULAR	±
APPROVALS	
DRAWN	DATE
CHECKED	
TITLE	
DRAWN	
CHECKED	
SIZE	
DRAWING NO.	
DO NOT SCALE DRAWING	
SHEET 1 OF 3	

IDT 6024 Silver Creek Valley Road
 SAN JOSE CA. 95138
 PHONE: (408) 284-8200
 FAX: (408) 284-8591
 WWW.IDT.COM

UNLESS SPECIFIED
 DECIMAL ±
 ANGULAR ±
 APPROVALS
 DRAWN **DP** DATE 02/28/07
 CHECKED
 TITLE BXBG/RX 288 PACKAGE OUTLINE
 DRAWN 23.0 X 23.0 mm BODY
 CHECKED 1.0 mm BALL PITCH SRGA
 SIZE C DRAWING NO. PSC-4209 REV 02
 DO NOT SCALE DRAWING SHEET 1 OF 3

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	02/27/07	DP
01	UPDATE COMPLIABILITY	10/04/07	DP
02	COMBINE PDD & LAND PATTERN	06/10/13	KS



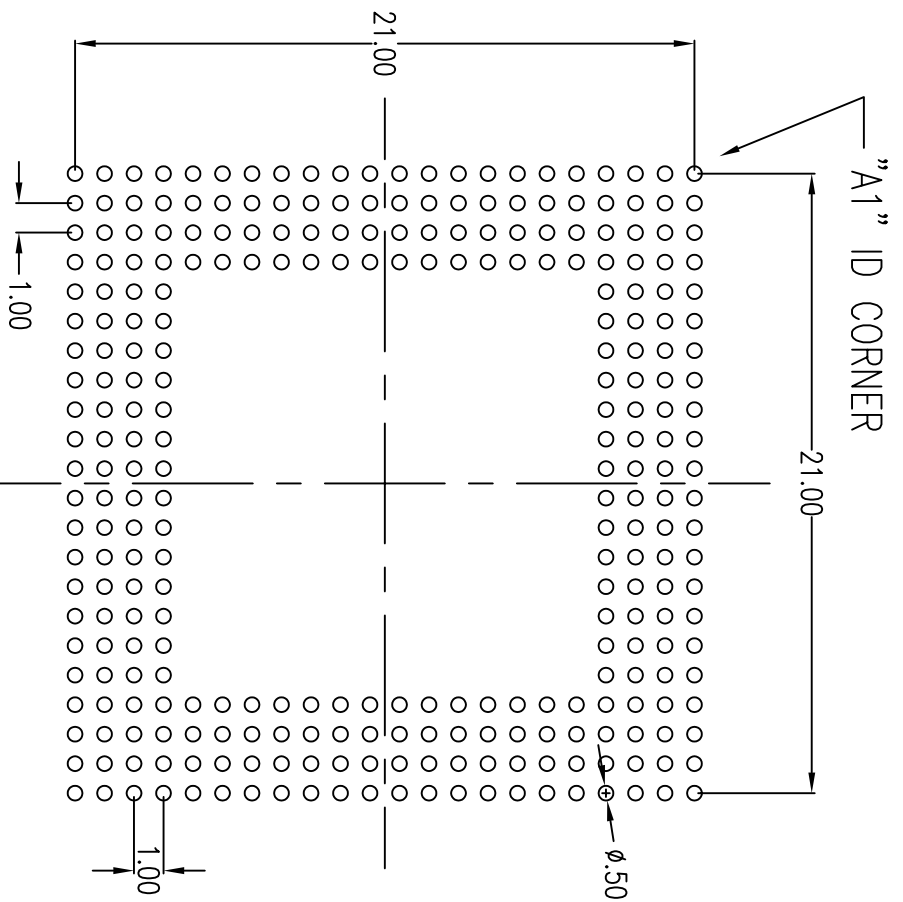
NOTES:

- 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 $\boxed{-C-}$
- △ SEATING PLANE AND PRIMARY DATUM $\boxed{-C-}$ 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

SYMBL	JEDEC VARIATION			NOTE
	MIN	NOM	MAX	
A	-	-	1.70	
A1	.30	-	-	
A2	.25	-	1.10	
A3	.15	-	-	
D	-	23.00 BSC	-	
D1	-	-	13.4	
E	-	23.00 BSC	-	
E1	-	-	13.4	
M	-	24 (DEPOPULATED)	-	3
N	-	288	-	4
e	-	1.00 BSC	-	
b	.50	.60	.70	5
CENTER BALL MATRIX	N/A			

TOLERANCES UNLESS SPECIFIED		6024 Silver Creek Valley Road	
DECIMAL	ANGULAR	SAN JOSE CA, 95138	
XXX±	±	PHONE: (408) 294-8200	
XXXX±		FAX: (408) 294-8591	
APPROVALS	DATE	TITLE	
DRAWN dp	02/28/07	BX/BXG/RX 288 PACKAGE OUTLINE	
CHECKED		23.0 X 23.0 mm BODY	
		1.0 mm BALL PITCH SBGA	
SIZE	DRAWING No.	REV	
C	PSC-4209	02	
DO NOT SCALE DRAWING		SHEET 2 OF 3	


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	02/27/07	DP
01	UPDATE COPLANARITY	10/04/07	DP
02	COMBINE POD & LAND PATTERN	06/10/13	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		 6024 Silver Creek Valley Road SAN JOSE CA. 95138 PHONE: (408) 284-8200 FAX: (408) 284-8591 www.idt.com	
DECIMAL	±	ANGULAR	
XXXX±			
APPROVALS	DATE	TITLE	
DRAWN JP	02/26/07	BX/BXG/RX 288 PACKAGE OUTLINE	
CHECKED		23.0 X 23.0 mm BODY	
		1.0 mm BALL PITCH SRGA	
		SIZE DRAWING NO. PSC-4209	REV
			02
DO NOT SCALE DRAWING			SHEET 3 OF 3