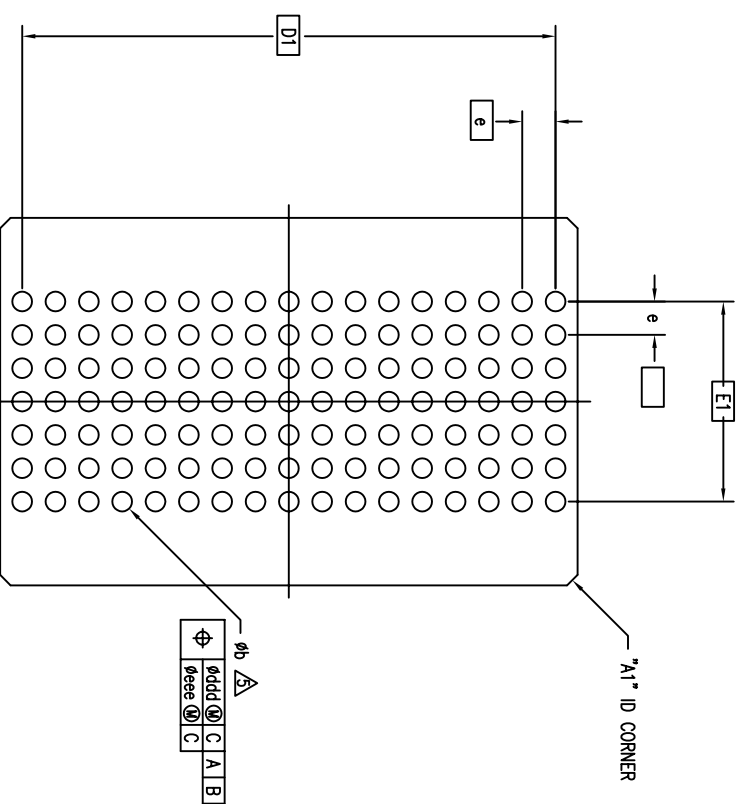
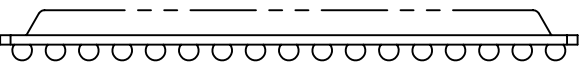
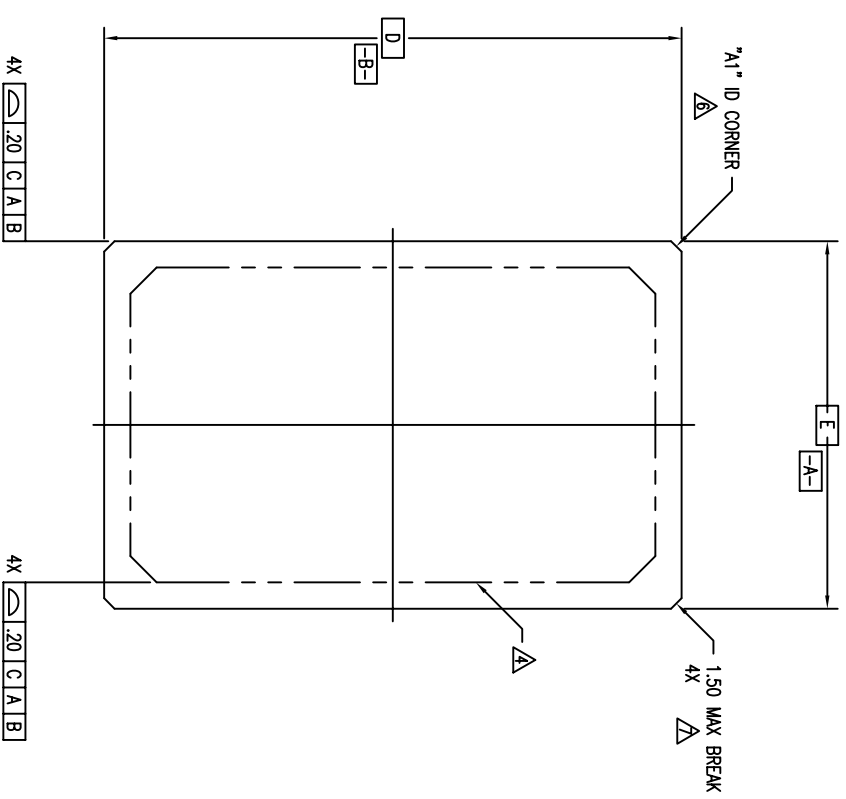
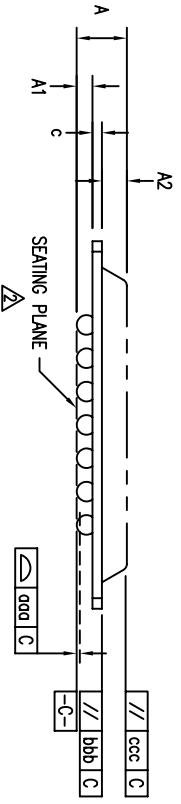



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
03	REMOVE FROM OBSOLETE	10/22/03	T. VU
04	CHANGE PACKAGE BODY TOLERANCE TO MEET JEDEC	04/25/00	T. VU
05	ADD "GREEN" BGS NOMENCLATURE	11/19/04	T. VU
06	COMBINE POD & LAND PATTERN	06/06/13	KS



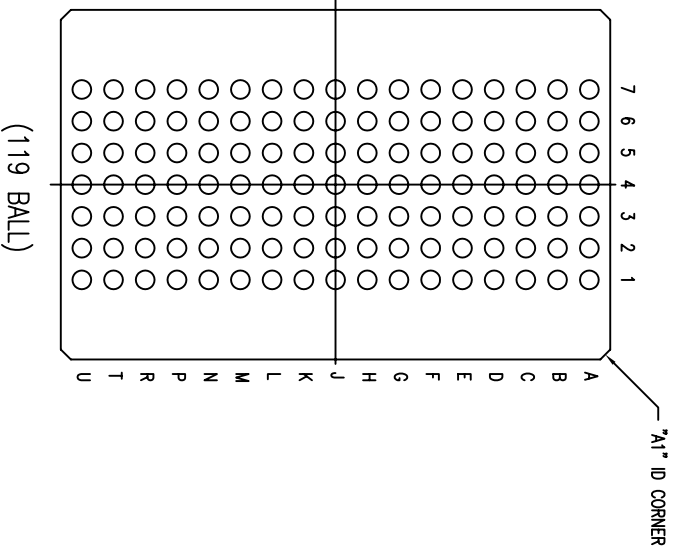
(119 BALL SHOWN)



TOLERANCES UNLESS SPECIFIED		DATE	
DECIMAL	ANGULAR	10/15/97	
XX±	±		
XXXX±			
XXXX±			
APPROVALS		TITLE	
DRAWN <i>gry</i>	DATE	BG/BGG PACKAGE OUTLINE	
CHECKED		14.0 X 22.0 mm BODY	
		PBGA	
		SIZE	DRAWING No.
		C	PSC-4063
			REV
			06
DO NOT SCALE DRAWING			SHEET 1 OF 3


6024 SILVER CREEK VALLEY ROAD
 SAN JOSE CA 95138
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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
03	REMOVE FROM OBSOLETE	10/2/03	T. VU
04	CHANGE PACKAGE BODY TOLERANCE TO MEET JEDEC	04/25/00	T. VU
05	ADD "GREEN" BGG NOMENCLATURE	11/19/04	T. VU
06	COMBINE POD & LAND PATTERN	06/06/13	KS



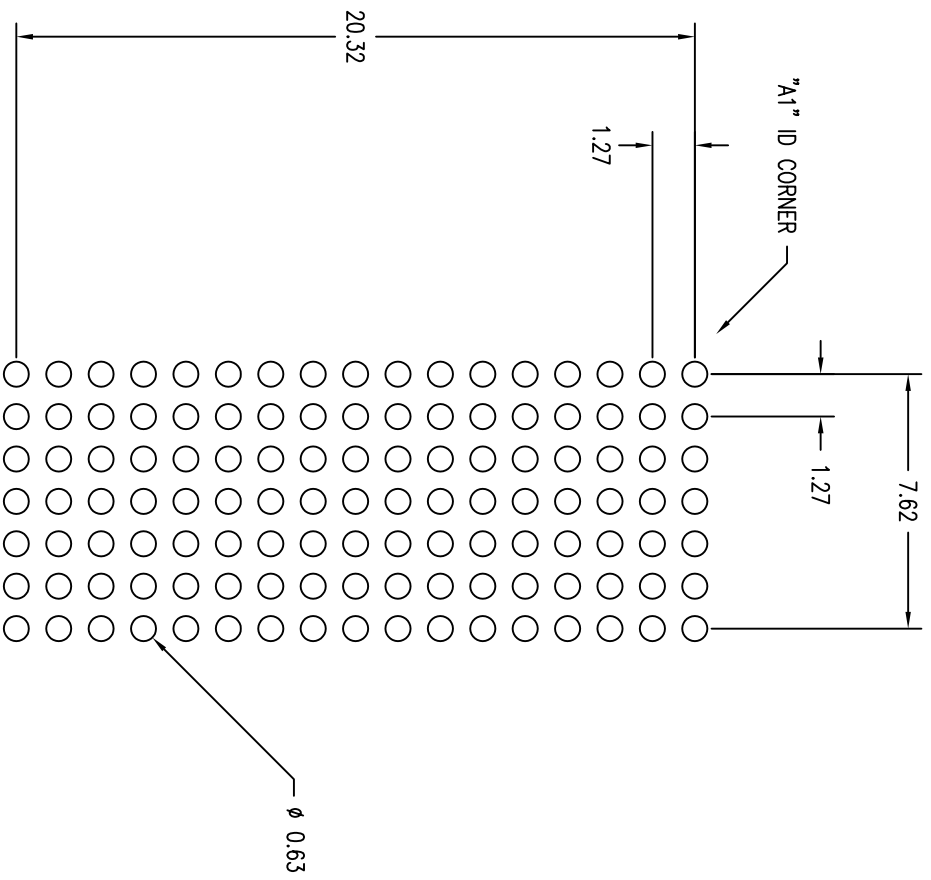
NOTES:

- 1 ALL DIMENSIONING AND TOLERANCING CONFORM TO ANSI Y14.5M-1982
- 2 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 MAXIMUM ALLOWABLE NUMBER OF SOLDER BALLS
 PACKAGE MAY EXTEND TO EDGE PERIPHERY AND MAY CONSIST OF MOLDING COMPOUND, EPOXY, METAL, CERAMIC OR OTHER MATERIAL
- 4 DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM $\boxed{-C-}$
- 5 "A1" ID CORNER MUST BE IDENTIFIED. IDENTIFICATION MAY BE BY MEANS OF CHAMFER, METALLIZED OR INK MARK, INDENTATION OR OTHER FEATURE OF THE PACKAGE BODY. MARK MUST BE VISIBLE FROM TOP SURFACE
- 6 ACTUAL SHAPE OF THIS FEATURE IS OPTIONAL
- 8 ALL DIMENSIONS ARE IN MILLIMETERS
- 9 THIS DRAWING CONFORMS TO JEDEC PUBLICATION 95 REGISTRATION MS-028, VARIATION AA


SYMBOL	JEDEC VARIATION			NOTE
	MIN	NOM	MAX	
AA				
A	-	2.15	2.36	
A1	.50	.60	.70	
A2	-	-	1.20	
D		22.00 BSC		
D1		20.32 BSC		
E		14.00 BSC		
E1		7.62 BSC		
MD		17		3
ME		7		3
N		119		3
e		1.27 BSC		
b	.60	.75	.90	5
c	.51	.56	.61	
ddd	-	-	.15	
bbb	-	-	.25	
ccc	-	-	.35	
ddd	-	-	.30	
eee	-	-	.10	

TOLERANCES UNLESS SPECIFIED		6024 SILVER CREEK VALLEY ROAD	
DECIMAL	ANGULAR	SAN JOSE CA 95138	
±	±	TEL: 408-284-8200	
±	±	WWW.IDT.COM	
±	±	FAX: 408-284-8591	
APPROVALS		DATE	
DRAWN	JYJ	10/15/97	
CHECKED			
TITLE		BG/BGG PACKAGE OUTLINE	
DRAWING No.		14.0 X 22.0 mm BODY	
SIZE		PBCA	
C		PSC-4063	
DO NOT SCALE DRAWING		REV 06	
		SHEET 2 OF 3	

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
03	REVIVE FROM OBSOLETE	10/2/03	T. VU
04	CHANGE PACKAGE BODY TOLERANCE TO MEET JEDEC	04/25/00	T. VU
05	ADD "GREEN" BGG NOMENCLATURE	11/19/04	T. VU
06	COMBINE POD & LAND PATTERN	06/06/13	KS



LAND PATTERN DIMENSIONS (mm)

TOLERANCES UNLESS SPECIFIED		ANGULAR	
DECIMAL		ANGULAR	
XXX		±	
XXXX			
XXXX±			
APPROVALS	DATE	TITLE	
DRAWN 372	10/15/97	BG/BGG PACKAGE OUTLINE	
CHECKED		14.0 X 22.0 mm BODY	
		SIZE	DRAWING No.
		C	PSC-4063
DO NOT SCALE DRAWING		SHEET	3 OF 3
 IDT 6024 SILVER CREEK VALLEY ROAD SAN JOSE CA 95138 TEL: 408-284-8200 FAX: (408) 284-8591 www.IDT.com		REV 06	