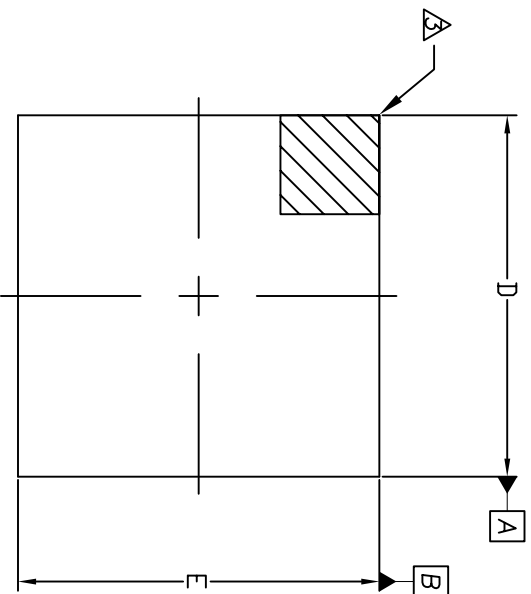
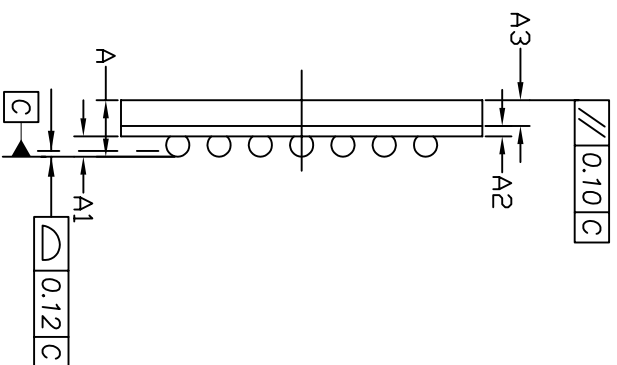


REV	DESCRIPTION	DATE	BY
A	NEW DRAWING	-	GREG P.
B	Updated 'b' to 0.45	04/05/05	Timothy L.
C	Updated Company Logo	-	Timothy L.
D	Reduced Mold & Sub. Thk.	-	Timothy L.

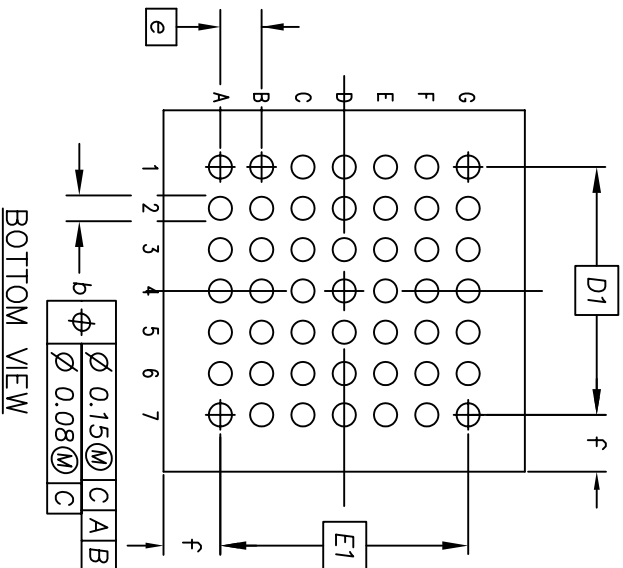


TOP VIEW



SIDE VIEW

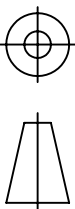
SYMBOL	MILLIMETER			INCH		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.93	1.05	1.17	.037	.041	.046
A1	0.30	0.35	0.40	.012	.014	.016
A2	0.16	0.20	0.24	.006	.008	.009
A3	0.47	0.50	0.53	.019	.020	.021
b	0.40	0.45	0.50	.016	.018	.020
D	6.90	7.00	7.10	.272	.276	.280
D1	4.80 BSC			.189 BSC		
E	6.90	7.00	7.10	.272	.276	.280
E1	4.80 BSC			.189 BSC		
e	0.80 BSC			.031 BSC		
f	1.00	1.10	1.20	.039	.043	.047



BOTTOM VIEW

- NOTES :
1. DIMENSIONING & TOLERANCING PER ASME Y14.5M - 1994.
 2. CONTROLLING DIMENSIONS ARE IN MM.
 3. DETAILS OF A1 CORNER ARE OPTIONAL, AND MAY CONSIST OF INK DOT, LASER MARK OR METALIZED MARKING, BUT MUST BE LOCATED WITHIN THE ZONE INDICATED.
 4. SOLDER BALLS ARE NORMALLY A TIN LEAD SOLDER OR LEAD FREE SOLDER.
 5. REFER TO JEDEC OUTLINE MO-205 FOR DATUMS. FEATURES AND DIMENSIONS NOT SHOWN.
 6. PRIMARY DATUM C AND SEATING PLANE ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.

PROJECTION



UNIT
MM



Jalan S. Parman Kav. 201
Batamindo Industrial Park, Muka Kuning
Batam Island 29433, Indonesia
Telp:(62)-770-611888 Fax:(62)-770-611555

APPROVAL	DATE
TIMOTHY L.	03/11/13
CHECKED VIVIAN B.	
APPROVED VIVIAN B.	
RELEASED DCC	

TITLE	
49 BALLS 7x7mm FBGA PACKAGE OUTLINE	
PITCH - 0.80mm (0.5mm Mold, 0.20mm Sub Thk., 0.45mm ball)	
DRAWING NO.	REV.
R0049PO-05	D
SCALE DO NOT SCALE	SHEET 1 OF 1