



 maxim integrated™

TITLE:  
PACKAGE OUTLINE, 324 BALLS  
CSBGA, 15X15X1.4MM

APPROVAL JEROLD LEE 7/25/13	DOCUMENT CONTROL NO. 21-0601	REV. B 1/2
-----------------------------------	---------------------------------	------------

-DRAWING NOT TO SCALE-

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. ALL DIMENSIONS AND TOLERANCES CONFORM TO ANSI Y14.5M-1994.
3. MATERIAL MUST COMPLY WITH BANNED AND RESTRICTED SUBSTANCES SPEC #10-0131.
4. DIMENSION b IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO DATUM PLANE C
5. DATUM C (SEATING PLANE) IS DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.
6. PARALLELISM MEASUREMENT SHALL EXCLUDE ANY EFFECT OF MARK ON TOP SURFACE OF PACKAGE.
7. ALL DIMENSIONS APPLY TO PbFREE (+) PKG. CODE ONLY.
8. PACKAGE CODE: X32455+1, X32455+1C

SYMBOL	COMMON DIMENSIONS		
	MIN.	NOM.	MAX.
A	1.15	1.28	1.40
A1	0.27	0.32	0.37
A2	0.26 REF.		
A3	0.7 REF.		
b	0.38	---	0.48
D	15 BSC		
D1	13.6 BSC		
E	15 BSC		
E1	13.6 BSC		
e	0.8 BSC.		
SD	0.4 BSC.		
SE	0.4 BSC.		
aaa	0.1		
bbb	0.2		
ddd	0.12		
eee	0.15		
fff	0.08		
BALL DIAMETER	0.4		
BALL OPENING	0.35		
N	324		



TITLE:  
PACKAGE OUTLINE, 324 BALLS  
CSBGA, 15X15X1.4MM

APPROVAL  
JEROLD LEE  
7/25/13

DOCUMENT CONTROL NO.  
21-0601

REV. 2/2  
B