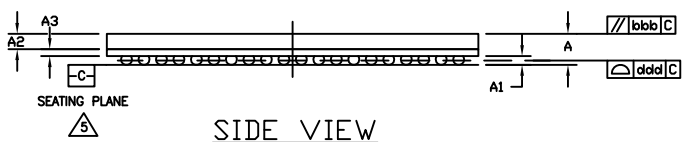


DIMENSIONAL REFERENCES			
REF.	MIN.	NOM.	MAX.
A	1.30	1.42	1.50
A1	0.35	--	0.45
A2	0.70 REF.		
A3	0.32 REF		
D	16.00		
D1	14.40 BSC		
E	17.00		
E1	15.20 BSC		
b	0.45	--	0.55
e	0.80 BSC		
aaa	0.15		
bbb	0.20		
ddd	0.15		
eee	0.15		
fff	0.08		
N	380		
PKG. CODE: X38076MK+1, X38076MK+2			



NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS.
- 'e' REPRESENTS THE BASIC SOLDER BALL PITCH.
- 'N' IS THE NUMBER OF ATTACHED SOLDER BALLS.
- 'b' IS MEASURABLE AT THE MAXIMUM SOLDER BALL DIAMETER PARALLEL TO THE PRIMARY DATUM $\square C$.
- PRIMARY DATUM $\square C$ AND THE SEATING PLANE ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.
- THE PACKAGE SURFACE SHALL BE MATTE FINISH CHARMILLES 24 TO 27.
- THE OVERALL PACKAGE THICKNESS "A" ALREADY CONSIDERS COLLAPSED BALLS.
- REFERENCE JEDEC MO-205.
- MARKING SHOWN IS FOR PKG. ORIENTATION ONLY.
- ALL DIMENSIONS APPLY TO BOTH LEADED (-) AND PbFREE (+) PKG. CODES.
- ALL DIMENSIONS AND TOLERANCES CONFORM TO ANSI Y14.5M-2009.

-DRAWING NOT TO SCALE-



TITLE:
PACKAGE OUTLINE,
380 BALL CSBGA, 17x16x1.4 mm

APPROVAL
DIANE PENG
09/08/14

DOCUMENT CONTROL NO.
21-0774

REV. A 1/1