



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.880	0.930	0.980	.035	.037	.039
A1	0.250	0.280	0.310	.010	.011	.012
A2	0.630	0.650	0.670	.025	.026	.027
b	0.340	0.370	0.400	.013	.015	.016
D	2.610	2.650	2.690	.103	.104	.106
D1	2.000 BSC			.079 BSC		
E	1.860	1.900	1.940	.073	.075	.076
E1	1.295 BSC			.051 BSC		
e	0.500 BSC			.020 BSC		
MD	5 BALLS			5 BALLS		
ME	3 BALLS			3 BALLS		
N	15 BALLS			15 BALLS		

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS.
 2. MD IS THE BALL MATRIX SIZE IN THE "D" DIRECTION, ME IS THE BALL MATRIX SIZE IN THE "E" DIRECTION, AND N IS THE TOTAL NUMBER OF BALLS FOR THE MATRIX SIZE MD X ME AND DOES NOT INCLUDE BALLS FROM ANY DEPOPULATED LOCATIONS. DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5M.-1994.
 3. $\Delta 4$ PRIMARY DATUM C (SEATING PLANE) IS DEFINED BY THE CROWNS OF THE SOLDER BALLS.
 4. $\Delta 5$ DIMENSION b IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER IN A PLANE PARALLEL TO DATUM C.
 5. MARKING SHOWN IS FOR PKG. ORIENTATION PURPOSE ONLY.
 6. MATERIAL MUST COMPLY WITH BANNED AND RESTRICTED SUBSTANCES SPEC #10-0131.
 7. ALL DIMENSIONS APPLY TO PbFREE (+) PKG. CODES ONLY.

-DRAWING NOT TO SCALE-



TITLE:
PACKAGE OUTLINE, 15 BALLS
WLCSP PKG. 0.50mm PITCH, C152B1+1

APPROVAL	DOCUMENT CONTROL NO. 21-0904	REV. A	1/1
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