

	MILLIMETERS			INCHES		
DIM	MIN	NDM	MAX	MIN	NDM	MAX
Α	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	2,550	2.600	2.650	.100	.102	.104
D1	2.000 BSC			.079 BSC		
Ε	2,490	2.540	2.590	.098	100،	.102
E1	1.800 BSC			.071 BSC		
е	0.500 BSC			.020 BSC		
MD	5 BALLS			5 BALLS		
ME	4 BALLS			4 BALLS		
Ν	20 BALLS			20 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.
- 3. DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5M.—1994.

  PRIMARY DATUM C (SEATING PLANE) IS DEFINED BY THE CROWNS OF THE SOLDER
  - BALLS.

    <u>Solution of the maximum solder ball diameter in a plane parallel to datum c.</u>
- 6. THERE SHALL BE A MINIMUM CLEARANCE OF 0.10MM BETWEEN THE EDGE OF THE BUMP AND THE BODY EDGE.
- 7. MARKING SHOWN IS FOR PKG. ORIENTATION PURPOSE ONLY.
- 8. MATERIAL MUST COMPLY WITH BANNED AND RESTRICTED SUBSTANCES SPEC #10-0131.
- 9. ALL DIMENSIONS APPLY TO PWFREE (+) PKG, CODES ONLY,

-DRAWING NOT TO SCALE-



|TITLE: |PACKAGE DUTLINE, 20 BALLS |WLCSP, 0.50mm PITCH, C202A2+1

APPROVAL DOCUMENT CONTROL NO. 21-0916

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