



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.905	0.930	0.955	.036	.037	.038
A1	0.270	0.280	0.293	.011	.011	.012
A2	0.635	0.650	0.662	.025	.026	.027
b	0.340	0.370	0.400	.013	.015	.016
D	4.881	4.931	4.981	.192	.194	.196
D1	4.000 BSC			0.157 BSC		
E	3.084			.121		
E1	2.500 BSC			0.099 BSC		
e	0.500 BSC			0.020 BSC		
MD	-	-	9 BALLS	-	-	9 BALLS
ME	-	-	6 BALLS	-	-	6 BALLS
N	54 BALLS			54 BALLS		

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS.
- 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.
- PRIMARY DATUM C (SEATING PLANE) IS DEFINED BY THE CROWNS OF THE SOLDER BALLS.
- DIMENSION b IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER IN A PLANE PARALLEL TO DATUM C.
- THERE SHALL BE A MINIMUM CLEARANCE OF 0.10MM BETWEEN THE EDGE OF THE BUMP AND THE BODY EDGE.
- MARKING SHOWN IS FOR PKG. ORIENTATION PURPOSE ONLY.
- MATERIAL MUST COMPLY WITH BANNED AND RESTRICTED SUBSTANCES SPEC #10-0131.
- ALL DIMENSIONS APPLY TO BOTH LEADED(-) AND PbFREE (+) PKG. CODES.



TITLE:
PACKAGE OUTLINE, 54 BALLS
WLCSP, 0.50mm PITCH, C543A4+1

APPROVAL	DOCUMENT CONTROL NO. 21-0949	REV. A	1/1
----------	---------------------------------	-----------	-----

-DRAWING NOT TO SCALE-