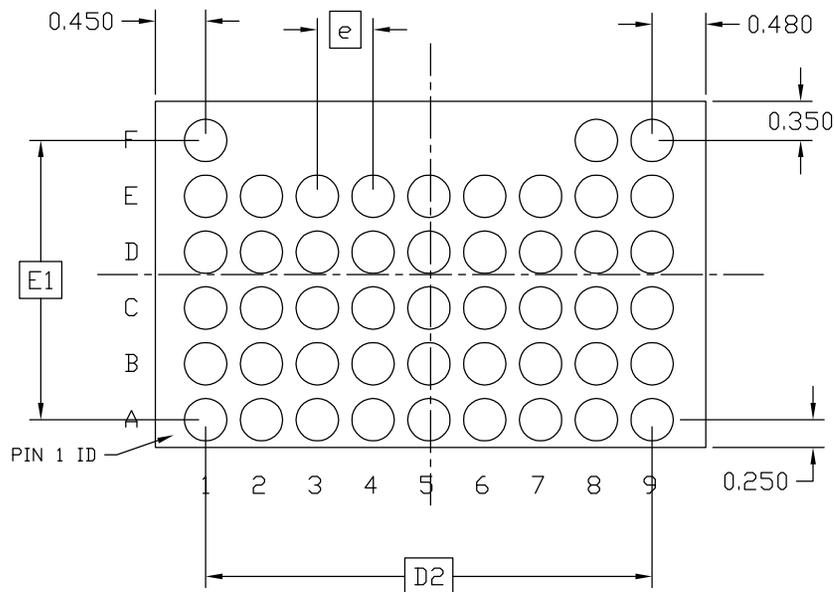


DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.900	-	0.950	.035	-	.037
A2	0.6550	0.675	0.695	.026	.027	.027
b	0.380 BSC			.015 BSC		
D	4.900	-	5.000	.193	-	.197
D1	4.000 BSC			.157 BSC		
E	3.050	-	3.150	.120	-	.124
E1	2.500 BSC			.098 BSC		
e	0.500 BSC			.020 BSC		
MD	-	-	9 BALLS	-	-	9 BALLS
ME	-	-	6 BALLS	-	-	6 BALLS
N	48 BALLS			48 BALLS		

BOTTOM VIEW



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.
- 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 P&FREE (+) PKG. CODES.



TITLE:
PACKAGE OUTLINE, 48 BALLS
WLCSP PKG. 0.50mm PITCH, C484A3+1

APPROVAL	DOCUMENT CONTROL NO. 21-0942	REV. A	1/1
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-DRAWING NOT TO SCALE-