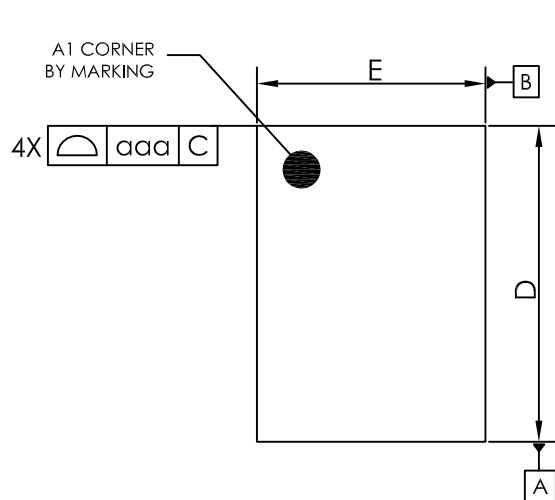
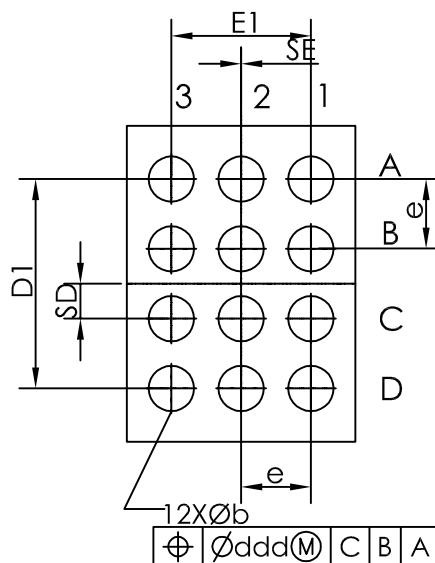




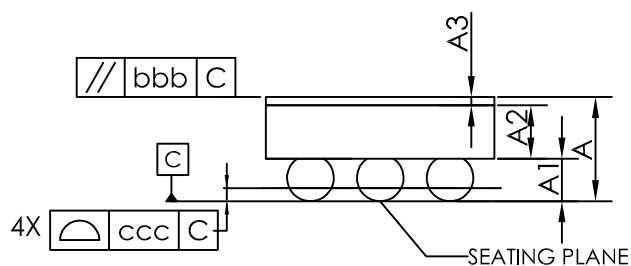
## WLCSP1.81x1.31\_12 PACKAGE OUTLINE



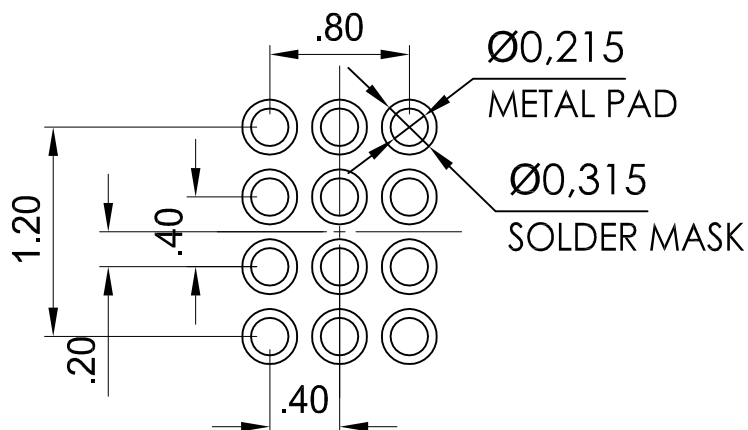
TOP VIEW



BOTTOM VIEW



SIDE VIEW



RECOMMENDED LAND PATTERN

SYMBOL	DIMENSION IN MM			DIMENSION IN INCH		
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.
A	0.445	0.495	0.545	0.0175	0.0195	0.0215
A1	0.188	0.208	0.228	0.0074	0.0082	0.0090
A2	0.240	0.265	0.290	0.0094	0.0104	0.0114
A3	0.012	0.022	0.032	0.0005	0.0009	0.0013
D	1.785	1.810	1.835	0.0703	0.0713	0.0722
D1	1.150	1.200	1.250	0.0453	0.0472	0.0492
E	1.285	1.310	1.335	0.0506	0.0516	0.0526
E1	0.750	0.800	0.850	0.0295	0.0315	0.0335
b	0.230	0.260	0.290	0.0091	0.0102	0.0114
e	0.400 BSC.			0.0157 BSC.		
SD	0.200 BSC.			0.0079 BSC.		
SE	0.000 BSC.			0.0000 BSC.		
Tol. of Form&Position			Tol. of Form&Position			
aaa	0.05			0.0020		
bbb	0.05			0.0020		
ccc	0.05			0.0020		
ddd	0.05			0.0020		

**NOTES:**

- 1.NO JEDEC REGISTRATION APPLIES.
- 2.DIMENSIONS ARE IN MILLIMETERS.
- 3.DIMENSIONS AND TOLERANCES PER PROCESS CAPABILITY
- 4.DATUM C IS DEFINED BY THE SPHERICAL CROWNS OF THE BALLS.