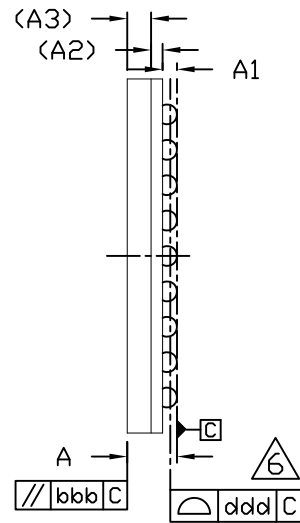
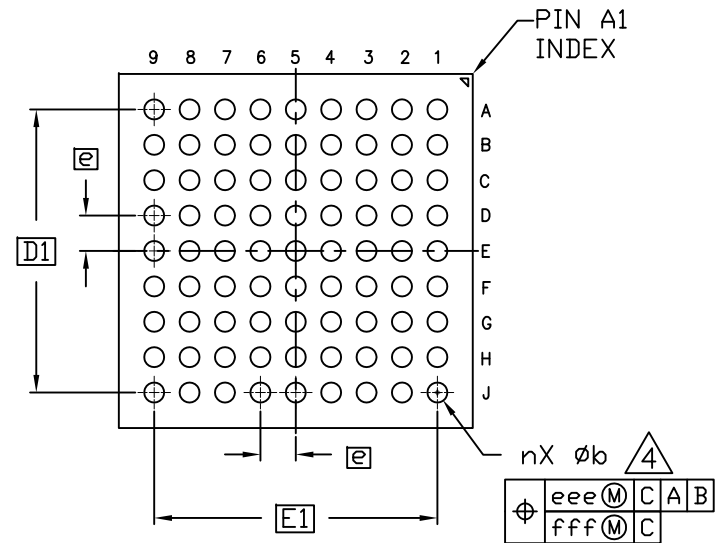


TOP VIEW



SIDE VIEW



BOTTOM VIEW

SYMBOL	COMMON DIMENSIONS		
	MIN.	NOM.	MAX.
A	1.04	1.17	1.30
A1	0.32	-	0.42
A2	0.26 REF		
A3	0.54 REF		
D	8 BSC		
E	8 BSC		
b	0.4	-	0.5
e	0.8 BSC		
n	81		
D1	6.4 BSC		
E1	6.4 BSC		
aaa	0.1		
bbb	0.2		
ddd	0.15		
eee	0.15		
fff	0.08		

NOTES:

1. DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED
2. MATERIAL MUST COMPLY WITH BANNED AND RESTRICTED SUBSTANCES SPEC # 10-0131
3. SYMBOL "n" IS THE NUMBER OF BALLS
4. DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER PARALLEL TO PRIMARY DATUM [C]
5. THE BASIC SOLDER BALL DIA IS 0.45 MM
6. PRIMARY DATUM [C] SEATING PLANE IS DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS
7. MARKING SHOWN IS FOR PKG. ORIENTATION ONLY
8. ALL DIMENSIONS APPLY TO PbFREE (+) PKG. CODE
9. PACKAGE CODE: X8188+1



TITLE:
PACKAGE OUTLINE, 81 BALLS CTBGA,
8x8x1.12mm, 0.8mm PITCH

APPROVAL	DOCUMENT CONTROL NO. 21-0735	REV. A	1/1
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