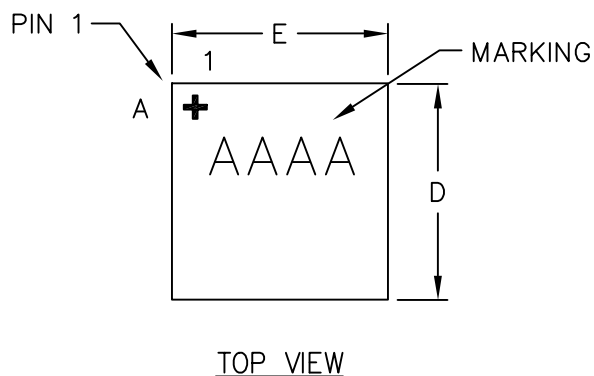
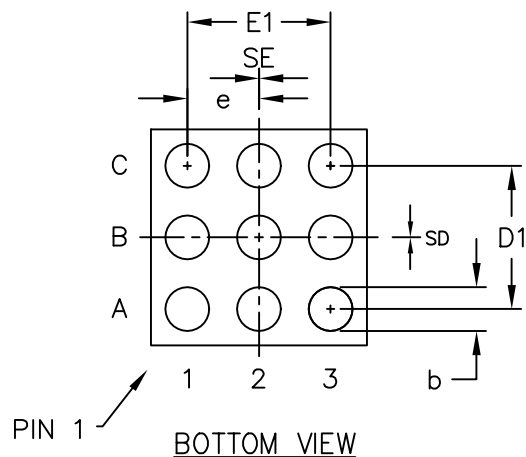


COMMON DIMENSIONS	
A	0.64±0.05
A1	0.24±0.03
A2	0.40 REF
A3	0.025–0.050 BASIC
b	∅0.31±0.03
D1	1.00
E1	1.00
e	0.50 BASIC
SD	0.00 BASIC
SE	0.00 BASIC



PKG. CODE	E		D		DEPOPULATED BUMPS
	MIN	MAX	MIN	MAX	
R91A1+1	1.48	1.63	1.48	1.63	NONE
R91B1+1	1.55	1.65	1.55	1.65	NONE

NOTES:

1. Terminal pitch is defined by terminal center to center value.
2. Outer dimension (D & E) is defined by center lines between scribe lines.
3. All dimensions in millimeters.
4. Marking shown is for package orientation reference only.
5. Tolerance is ± 0.02mm unless specified otherwise.
6. All dimensions apply to PbFree (+) package codes only.

—DRAWING NOT TO SCALE—

TITLE: PACKAGE OUTLINE 9 BUMPS, UCSP (R) PKG. 0.5mm PITCH				
APPROVAL	DOCUMENT CONTROL NO.	REV.		
TIAO ZHOU 04/14/09	21-0227	C	1/1	