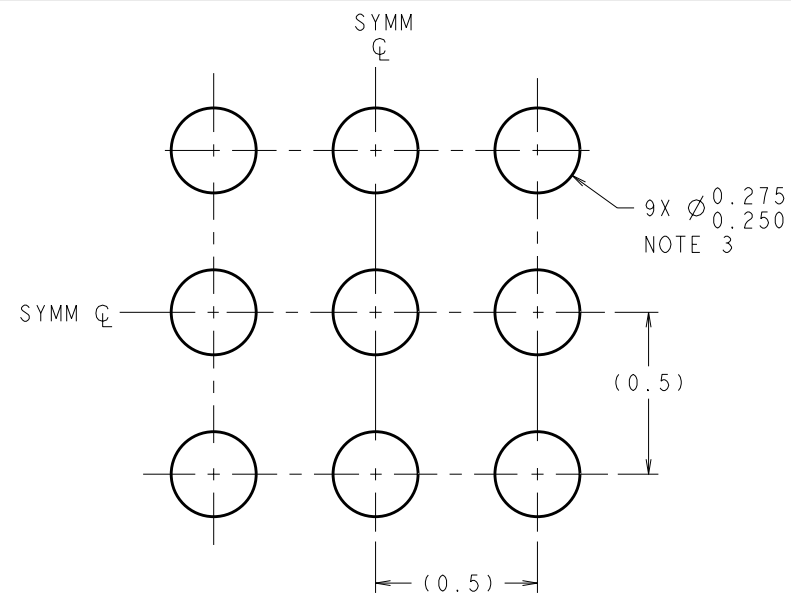
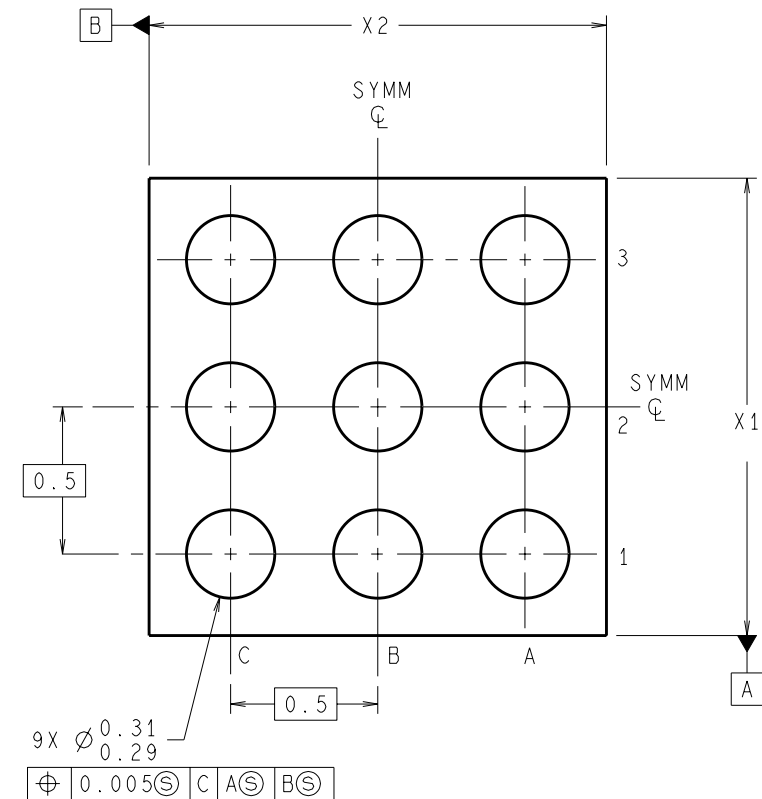
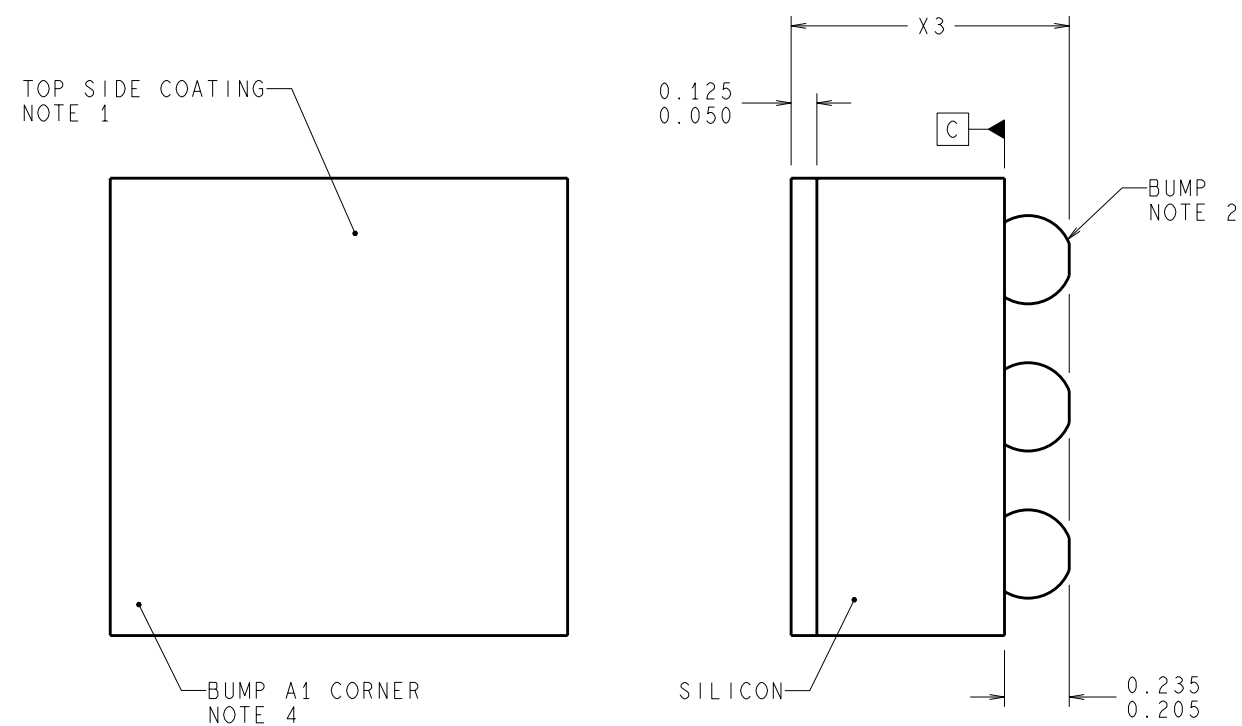




DIMENSIONS ARE IN MILLIMETERS

LAND PATTERN RECOMMENDATION

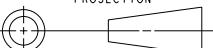


NOTES: UNLESS OTHERWISE SPECIFIED

1. EPOXY COATING.
2. 63 Sn / 37 Pb EUTECTIC BUMP.
3. RECOMMEND NON-SOLDER MASK DEFINED LANDING PAD.
4. PIN A1 IS ESTABLISHED BY LOWER LEFT CORNER WITH RESPECT TO TEXT ORIENTATION.
5. XXX IN DRAWING NUMBER REPRESENTS PACKAGE SIZE VARIATION WHERE X1 IS PACKAGE WIDTH, X2 IS PACKAGE LENGTH AND X3 IS PACKAGE HEIGHT (SEE TABLE, SHEET 2).
EXAMPLE: BLA09EFB HAS WIDTH=1615, LENGTH=1641, HEIGHT=945
6. REFERENCE JEDEC REGISTRATION MO-211, VARIATION BC.

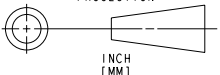
REVISIONS			
LTR	DESCRIPTION	E.C.N.	DATE
A	RELEASE TO DOCUMENT CONTROL	270	03/21/2001
B	CHANGE BUMPS NUMBERING ORDER PER JEDEC. UPDATE NOTE 4.	505	02/01/2002

APPROVALS		DATE		<i>National Semiconductor</i> 2900 Semiconductor Dr., Santa Clara, CA 95052-8090
DRAWN		DATE		
MARTA SUCHY		03/21/2001		
DFTG. CHK.		DATE		
THANH LEQUANG		02/01/2002		
ENGR. CHK.		DATE		
VIRAJ PATWARDHAN		02/01/2002		
MICRO SMD, 9 BUMP(LARGE), 0.5mm PITCH				

PROJECTION		SCALE	SIZE	DRAWING NUMBER	REV
		N/A	C	(SC)MKT-BLA09XXX	B
DO NOT SCALE DRAWING				SHEET 1 of 2	

REVISIONS				
LTR	DESCRIPTION	E.C.N.	DATE	BY/APP'D
	SEE SHEET 1			

PACKAGE DIMENSIONS					
X1 DESIGNATOR	X1 PACKAGE WIDTH (±30 μm)	X2 DESIGNATOR	X2 PACKAGE LENGTH (±30 μm)	X3 DESIGNATOR	X3 PACKAGE HEIGHT (±100 μm)
A	1514	A	1514	A	795
B	1539	B	1539	B	945
C	1565	C	1565	C	995
D	1590	D	1590		
E	1615	E	1615		
F	1641	F	1641		
G	1666	G	1666		
H	1692	H	1692		
J	1717	J	1717		
K	1742	K	1742		
L	1768	L	1768		
M	1793	M	1793		
N	1819	N	1819		
P	1844	P	1844		
Q	1869	Q	1869		
R	1895	R	1895		
S	1920	S	1920		
T	1946	T	1946		
U	1971	U	1971		

APPROVALS		DATE		 <i>National Semiconductor</i> 2900 Semiconductor Dr., Santa Clara, CA 95052-8090	
DRAWN	MARTA SUCHY		03/21/2001		
DFTG. CHK.	THANH LEQUANG		02/01/2002		
ENGR. CHK.	VIRAJ PATWARDHAN		02/01/2002		
				MICRO SMD, 9 BUMP(LARGE), 0.5mm PITCH	
		SCALE	SIZE	DRAWING NUMBER	REV
		N/A	C	(SC)MKT-BLA09XXX	B
DO NOT SCALE DRAWING				SHEET 2 of 2	