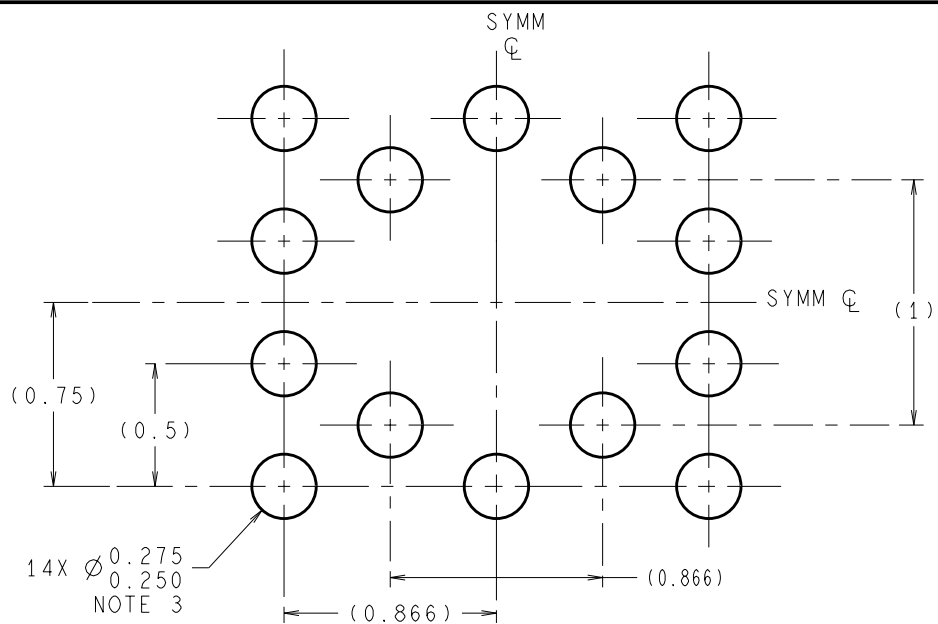
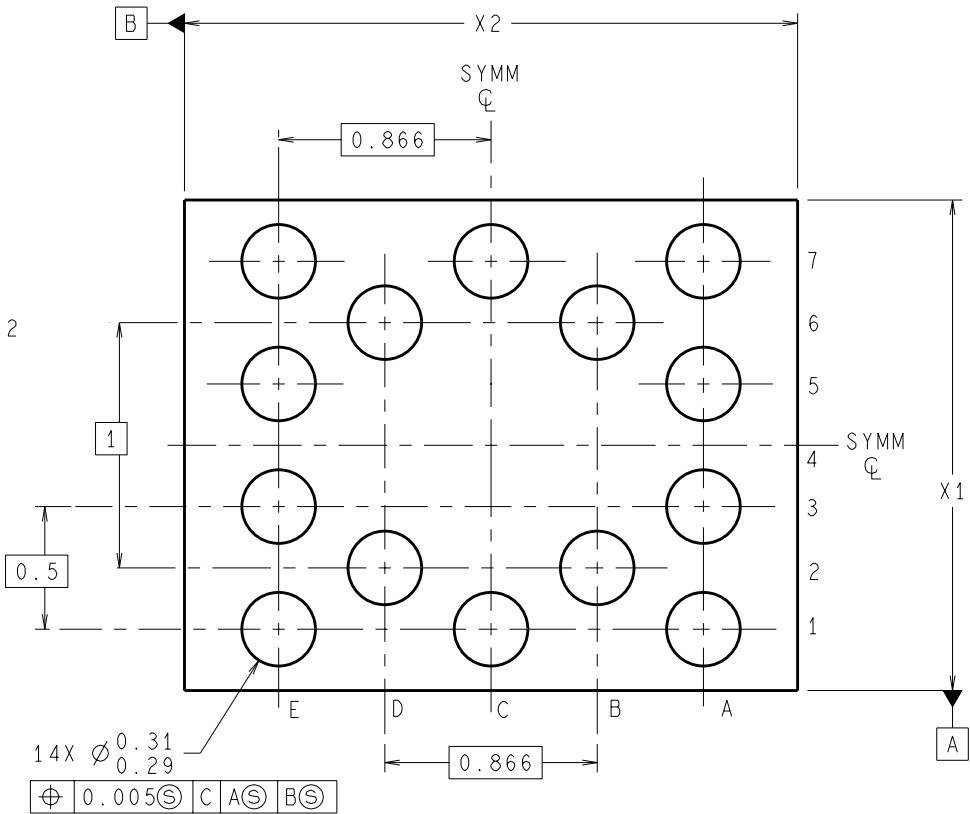
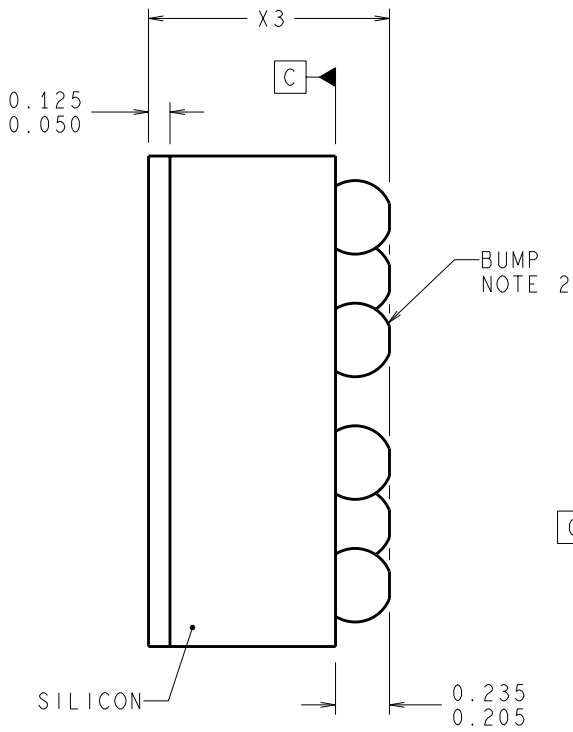
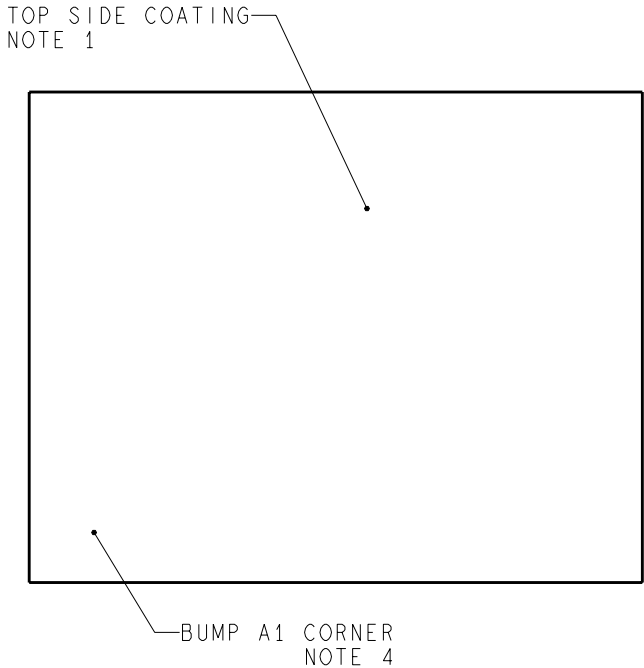


REVISIONS				
LTR	DESCRIPTION	E.C.N.	DATE	BY/APP'D
A	RELEASE TO DOCUMENT CONTROL	389	08/02/2001	MS/VP
B	REVERSE BUMP NUMBERING SEQUENCE; UPDATE NOTES 4 & 6.	520	02/14/2002	MS/VP



DIMENSIONS ARE IN MILLIMETERS

LAND PATTERN RECOMMENDATION

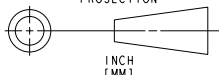


- NOTES: UNLESS OTHERWISE SPECIFIED
- EPOXY COATING.
 - 63 Sn / 37 Pb EUTECTIC BUMP.
 - RECOMMEND NON-SOLDER MASK DEFINED LANDING PAD.
 - PIN A1 IS ESTABLISHED BY LOWER LEFT CORNER WITH RESPECT TO TEXT ORIENTATION.
 - XXX IN DRAWING NUMBER REPRESENTS PACKAGE SIZE VARIATION WHERE X1 IS PACKAGE WIDTH, X2 IS PACKAGE LENGTH AND X3 IS PACKAGE HEIGHT (SEE TABLE, SHEET 2).
EXAMPLE: BLP14EFB HAS WIDTH=2098, LENGTH=2352, HEIGHT=945
 - NO JEDEC REGISTRATION AS OF FEBRUARY 2002.

APPROVALS		DATE		 <i>National Semiconductor</i> 2900 Semiconductor Dr., Santa Clara, CA 95052-8090 MICRO SMD, 14 BUMP(LARGE), PERIPHERAL, 0.5mm PITCH			
DRAWN	MARTA SUCHY	08/02/2001					
DFTG. CHK.	THANH LEQUANG	02/14/2002					
ENGR. CHK.	VIRAJ PATWARDHAN	02/14/2002					
PROJECTION  INCH [MM]				SCALE	SIZE	DRAWING NUMBER	REV
				N/A	C	(SC)MKT-BLP14XXX	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 ±30μm	X2 DESIGNATOR	X2 PACKAGE LENGTH ±30μm	X3 DESIGNATOR	X3 PACKAGE HEIGHT ±100μm
A	1996	A	2225	A	795
B	2022	B	2250	B	945
C	2047	C	2276	C	995
D	2073	D	2301		
E	2098	E	2327		
F	2123	F	2352		
G	2149	G	2377		
H	2174	H	2403		
J	2200	J	2428		
K	2225	K	2454		
L	2250	L	2479		
M	2276	M	2504		
N	2301	N	2530		
P	2327	P	2555		
Q	2352	Q	2581		
R	2377	R	2606		
S	2403	S	2631		
T	2428	T	2657		
U	2454	U	2682		
V	2479				

APPROVALS		DATE		 <i>National Semiconductor</i> 2900 Semiconductor Dr., Santa Clara, CA 95052-8090			
DRAWN	MARTA SUCHY		08/02/2001				
DFTG. CHK.	THANH LEQUANG		02/14/2002	MICRO SMD, 14 BUMP(LARGE), PERIPHERAL, 0.5mm PITCH			
ENGR. CHK.	VIRAJ PATWARDHAN		02/14/2002				
 PROJECTION INCH [MM]				SCALE	SIZE	DRAWING NUMBER	REV
				N/A	C	(SC)MKT-BLP14XXX	B
DO NOT SCALE DRAWING						SHEET 2 of 2	