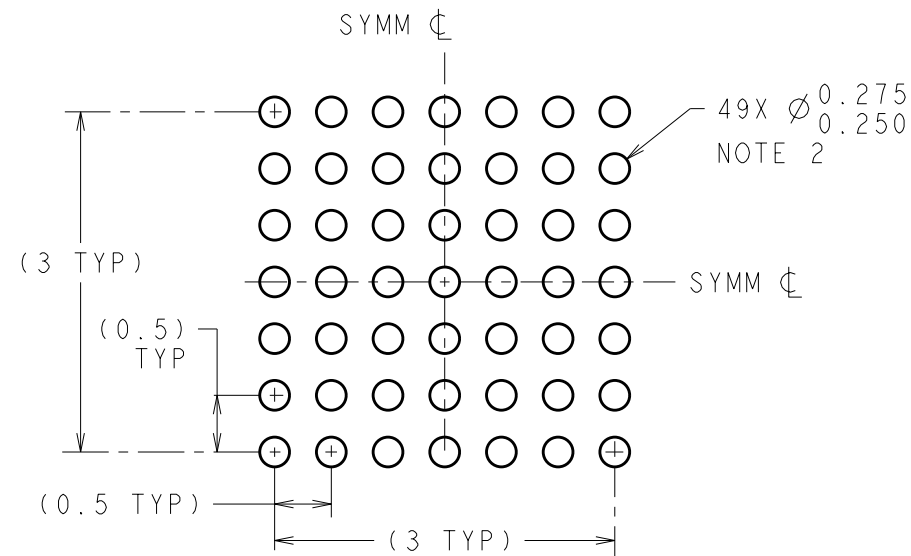
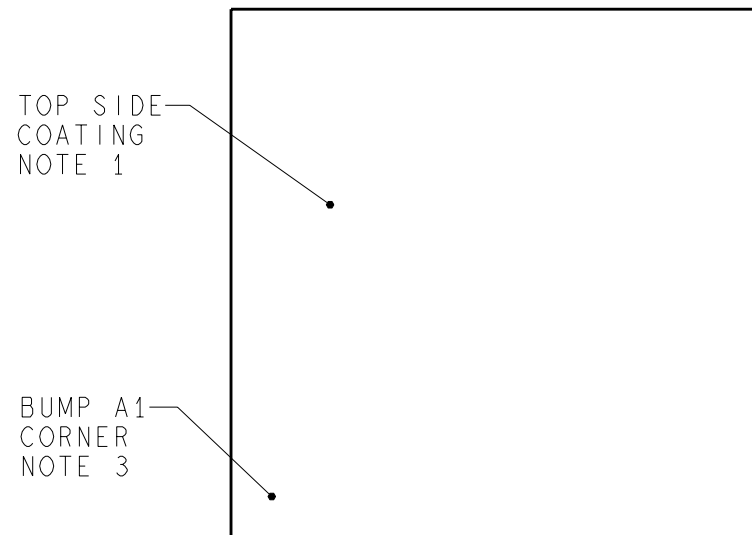


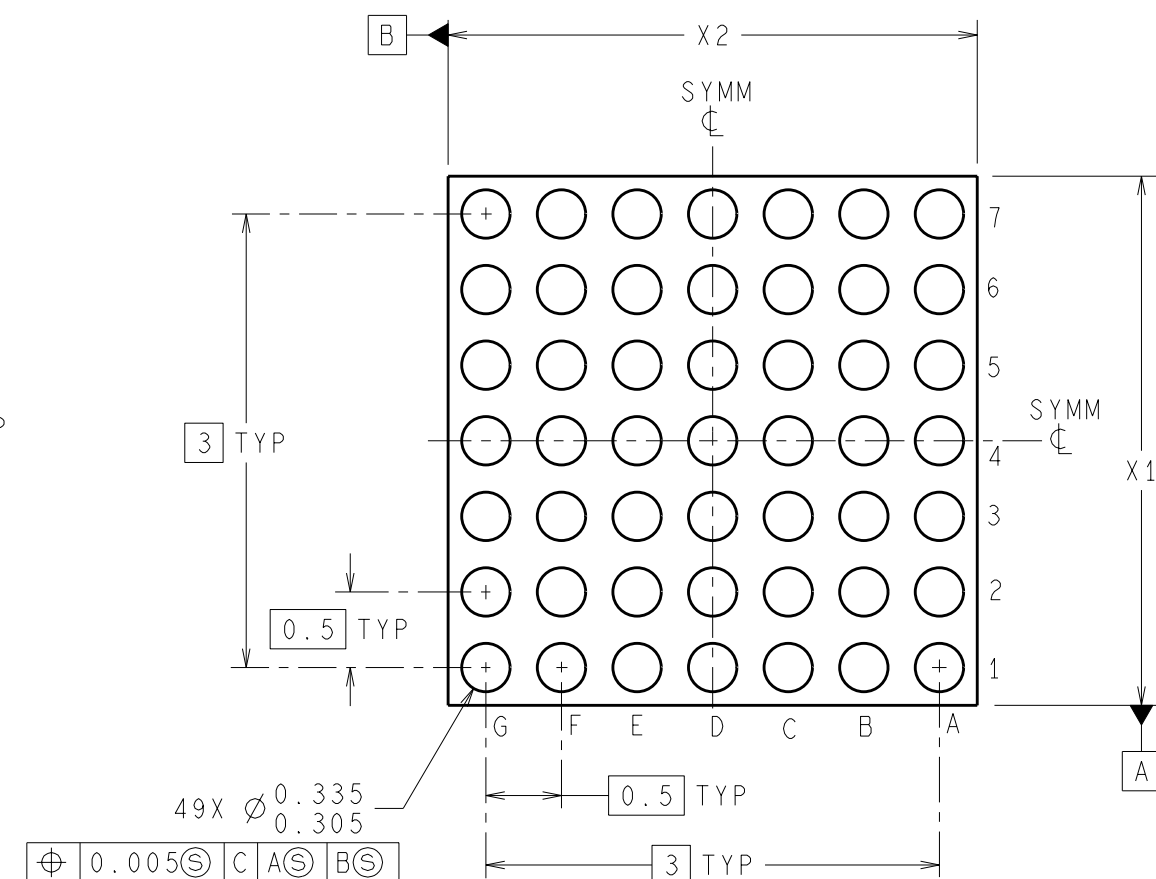
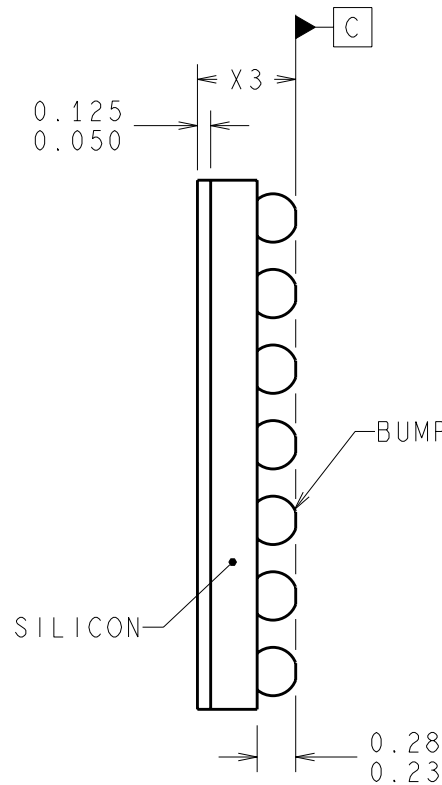
REVISIONS				
REV	DESCRIPTION	E.C.N.	DATE	BY/APP'D
A	RELEASE TO DOCUMENT CONTROL	1901	08/30/2005	MS/JS
B	REVISED TITLE & JEDEC NOTE 5; ADDED "(MICROMETERS)" TO TABLE TITLE.	1980	12/22/2005	MS/HN



LAND PATTERN RECOMMENDATION



DIMENSIONS ARE IN MILLIMETERS
DIMENSIONS IN () FOR REFERENCE ONLY



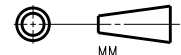
NOTES: UNLESS OTHERWISE SPECIFIED

1. EPOXY COATING.
2. RECOMMEND NON-SOLDER MASK DEFINED LANDING PAD.
3. PIN A1 IS ESTABLISHED BY LOWER LEFT CORNER WITH RESPECT TO TEXT ORIENTATION.
4. 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).
5. NO JEDEC REGISTRATION AS OF DECEMBER 2005.

APPROVALS		DATE	 National Semiconductor 2900 Semiconductor Dr., Santa Clara, CA 95052-8090
DRAWN	MARTA SUCHY	08/30/2005	
DFTG. CHK.	THANH LEQUANG	12/22/2005	
ENGR. CHK.	HAU NGUYEN	12/22/2005	
PROJECTION:			MICRO SMDx4, 49 BUMP(LARGE), 0.5mm PITCH
SCALE	SIZE	DRAWING NUMBER	
NTS	B	(SC)MKT-RLA49XXX	B
FORMERLY: N/A			SHEET 1 of 2

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

PACKAGE DIMENSIONS (MICROMETERS)					
X1 DESIGNATOR	X1 PACKAGE WIDTH ($\pm 30\mu\text{m}$)	X2 DESIGNATOR	X2 PACKAGE LENGTH ($\pm 30\mu\text{m}$)	X3 DESIGNATOR	X3 PACKAGE HEIGHT ($\pm 75\mu\text{m}$)
A	3465	A	3465	A	650
B	3490	B	3490		
C	3516	C	3516		
D	3541	D	3541		
E	3567	E	3567		
F	3592	F	3592		
G	3618	G	3618		
H	3643	H	3643		
J	3669	J	3669		
K	3694	K	3694		
L	3720	L	3720		
M	3745	M	3745		
N	3771	N	3771		
P	3796	P	3796		
Q	3822	Q	3822		
R	3847	R	3847		
S	3873	S	3873		
T	3898	T	3898		
U	3924	U	3924		
V	3949	V	3949		
W	3975	W	3975		

APPROVALS		DATE	National Semiconductor		
DRAWN	MARTA SUCHY	08/30/2005	2900 Semiconductor Dr., Santa Clara, CA 95052-8090		
DFTG. CHK.	THANH LEQUANG	12/22/2005	MICRO SMDx4, 49 BUMP(LARGE), 0.5mm PITCH		
ENGR. CHK.	HAU NGUYEN	12/22/2005			
PROJECTION		SCALE	SIZE	DRAWING NUMBER	REV
	MM	NTS	B	(SC)MKT-RLA49XXX	B
FORMERLY: N/A			SHEET 2 of 2		