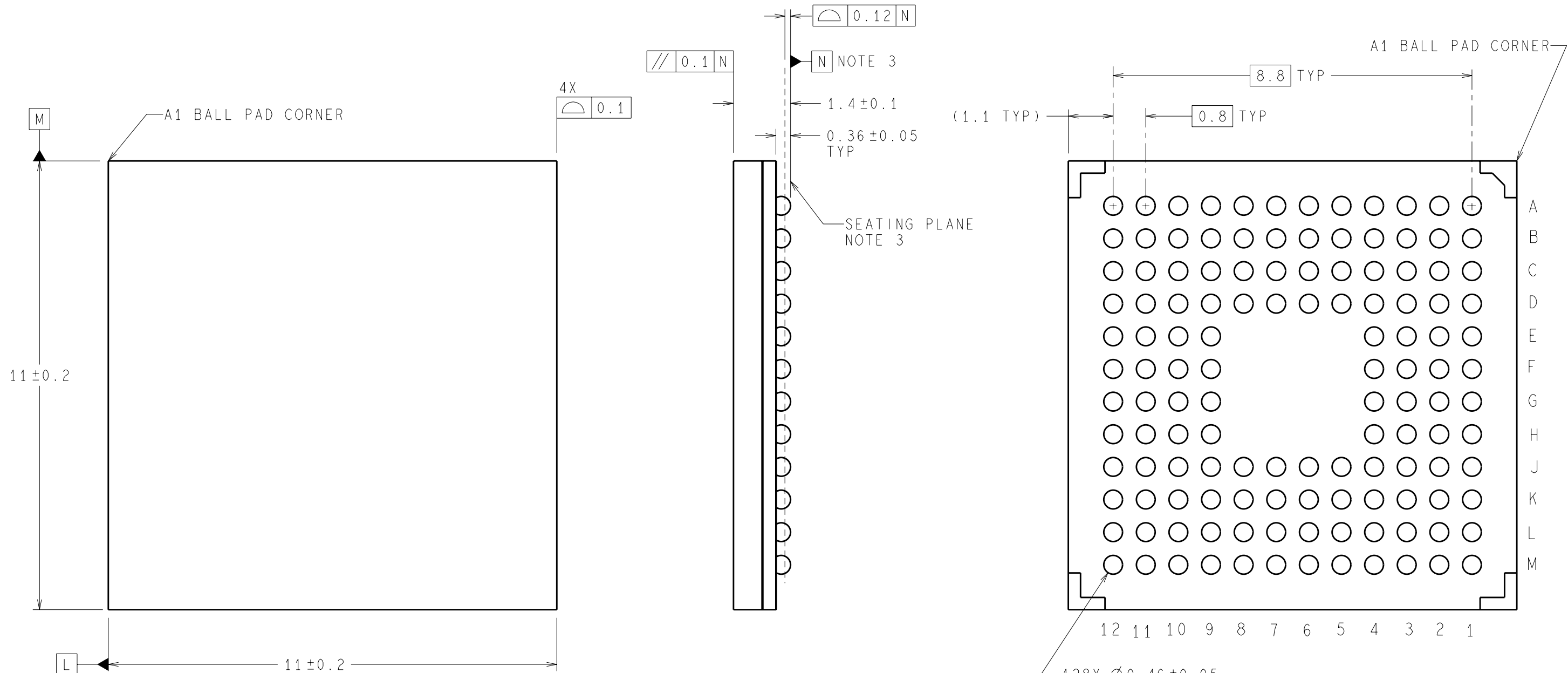


REVISIONS				
REV	DESCRIPTION	E.C.N.	DATE	BY/APP'D
A	RELEASE TO DOCUMENT CONTROL	1238	10/07/2003	MS/NP



DIMENSIONS ARE IN MILLIMETERS
 DIMENSIONS IN () FOR REFERENCE ONLY

128X $\varnothing 0.46 \pm 0.05$

$\varnothing 0.15$	(M)	N	L(S)	MS(S)
$\varnothing 0.08$	(M)	N		

NOTE 2

NOTES: UNLESS OTHERWISE SPECIFIED

- FOR SOLDER BALL COMPOSITION, SEE "SOLDER INFORMATION" IN THE PACKAGING SECTION OF THE NATIONAL SEMICONDUCTOR WEB PAGE (www.national.com).
- DIMENSION MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM N.
- PRIMARY DATUM N AND SEATING PLANE ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.
- NO JEDEC REGISTRATION AS OF OCTOBER 2003.

APPROVALS		DATE	 National Semiconductor 2900 Semiconductor Dr., Santa Clara, CA 95052-8090	FBGA, PLASTIC, LAMINATE, 11 X 11 X 1.4mm BODY, 128 BALL, 0.8mm PITCH
DRAWN	MARTA SUCHY	10/07/2003		
DFTG. CHK.	THANH LEQUANG	10/07/2003		
ENGR. CHK.	NEERAJ PENDESE	10/07/2003		
PROJECTION		SCALE	SIZE	DRAWING NUMBER
	MM	NTS	B	(SC)MKT-SLC128A
		FORMERLY: N/A		REV A
				SHEET 1 of 1