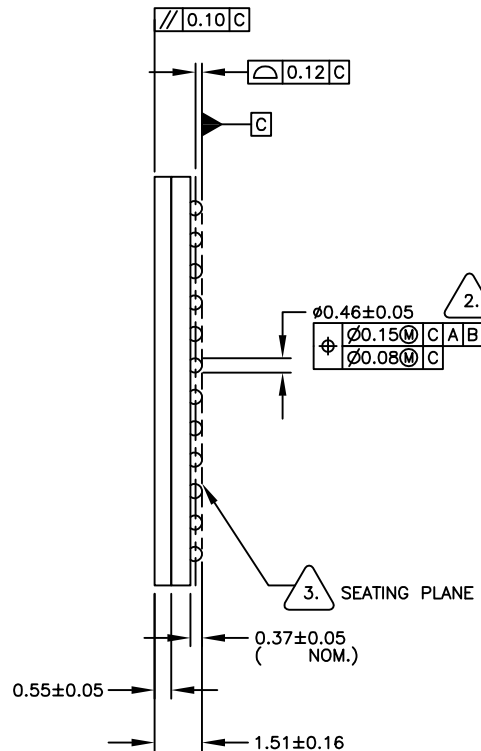
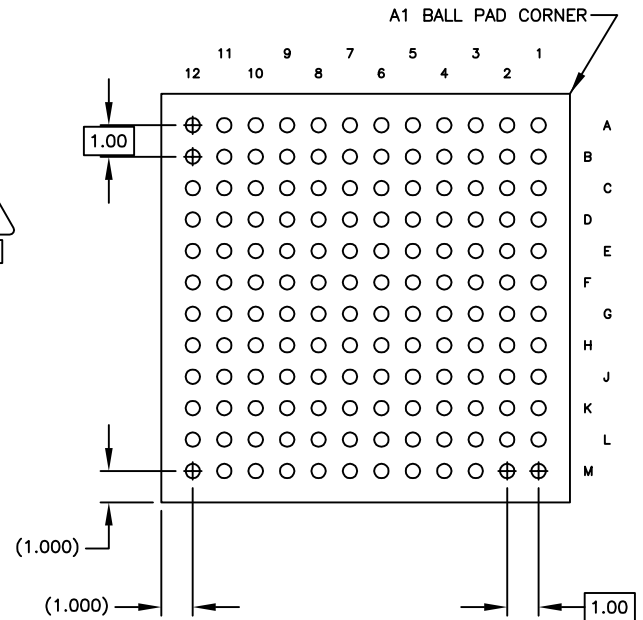


TOP VIEW



SIDE VIEW

| REVISIONS | | | |
|-----------|--|----------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| 00 | INITIAL RELEASE | 02/08/13 | CM |
| 01 | CHANGE TOTAL PACKAGE THICKNESS, SOLDER BALL DIMENSIONING | 10/04/13 | CK LEE |
| 02 | ADD MISSING DIMENSION ON MOLD CAP | 2/3/14 | CK LEE |
| 03 | CHANGE MOLD CAP THICKNESS FROM 0.53MM TO 0.55MM | 4/1/14 | CK LEE |



BOTTOM VIEW


NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL DIMENSIONS AND TOLERANCES CONFORM TO ASME Y14.5M-1994.

2. DIMENSION IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM C.

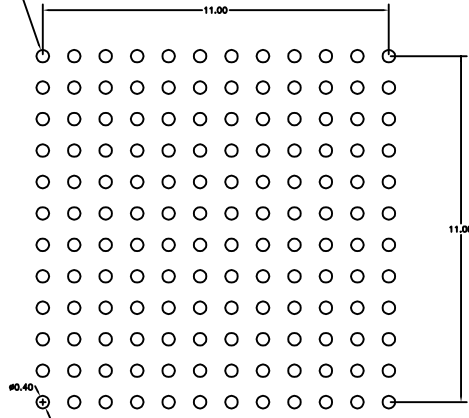
3. PRIMARY DATUM C AND SEATING PLANE ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.

4. "A1" ID CORNER MUST BE IDENTIFIED. IDENTIFICATION MAY BE BY MEANS OF CHAMFER, METALLIZED OR INK MARK, INDENTATION OR OTHER FEATURE OF THE PACKAGE BODY.

| | | | | |
|-----------------------------|---------|--|--|--------------|
| TOLERANCES UNLESS SPECIFIED | |  6024 Silver Creek Valley Road San Jose, CA 95138 PHONE: (408) 248-8333 FAX: (408) 248-8591 www.IDT.com | TITLE BA/BAG144 PACKAGE OUTLINE 13.0 X 13.0 mm BODY 1.0 mm PITCH CABGA | |
| DECIMAL | ANGULAR | | APPROVALS | DATE |
| X±0.01 | | CM | 08/29/13 | C |
| XX±0.05 | | | | DRAWING No. |
| XXX±0.03 | | | | PSC-4471 |
| | | | | REV |
| | | | | 03 |
| DO NOT SCALE DRAWING | | | | SHEET 1 OF 2 |

| REVISIONS | | | |
|-----------|--|----------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| 00 | INITIAL RELEASE | 08/29/13 | CM |
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| 03 | CHANGE MOLD CAP THICKNESS FROM 0.53MM TO 0.55MM | 4/1/14 | CK LEE |


A1 BALL PAD CORNER



RECOMMENDED LAND PATTERN

NOTE:

- 1) ALL dimensions are in mm, Angles in degrees.
- 2) Top down view, as view on PCB.
- 3) NSMD Land Pattern Assumed
- 4) Land Pattern Recommendation as per IPC-7351B generic requirement for surface mount design and Land Pattern.

| | | | |
|---|----------|--|--------------|
| TOLERANCES UNLESS SPECIFIED DECIMAL ANGULAR X±0.01 XX±0.05 XXX±0.03 | |  6024 Silver Creek Valley Road San Jose, CA 95138 PHONE: (408) 248-8333 www.IDT.com FAX: (408) 248-8591 | |
| APPROVALS | DATE | TITLE BA/BAG144 PACKAGE OUTLINE 13.0 X 13.0 mm BODY 1.0 mm PITCH CABGA | |
| DRAWN <i>cm</i> | 08/29/13 | | |
| CHECKED | | | |
| | SIZE | DRAWING No. | REV |
| | C | PSC-4471 | 03 |
| DO NOT SCALE DRAWING | | | SHEET 2 OF 2 |