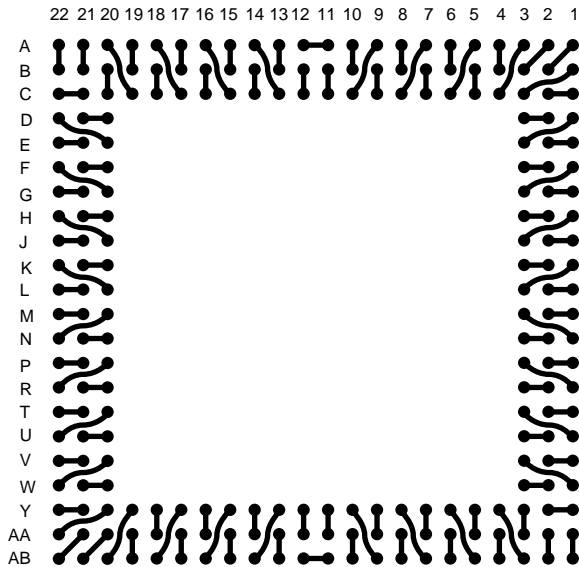
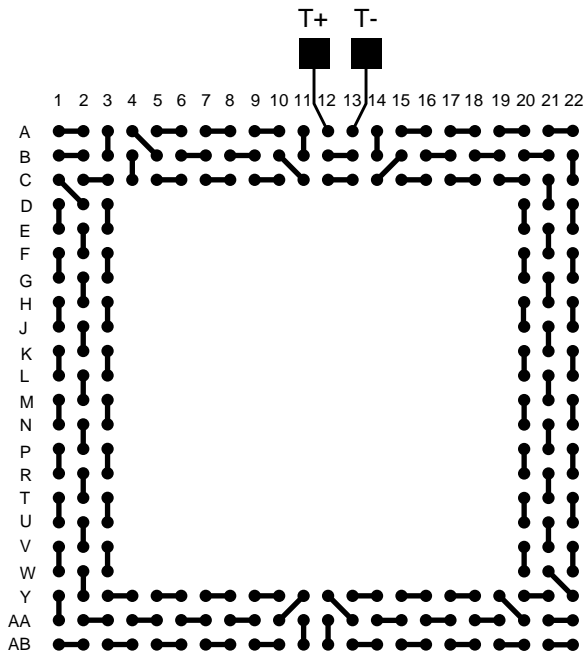
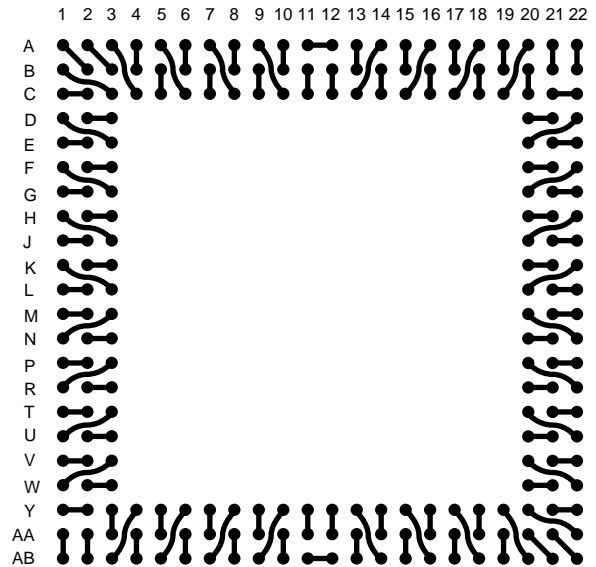


| <u>BALLS</u> | <u>PITCH</u> | <u>SIZE</u> | <u>MATRIX</u> | <u>ROWS</u> | <u>CENTER</u> | <u>MAT'L</u> |
|--------------|--------------|-------------|---------------|-------------|---------------|--------------|
| 228          | 0.5mm        | 12mm SQ     | 22 x 22       | 3           | none          | FR4          |

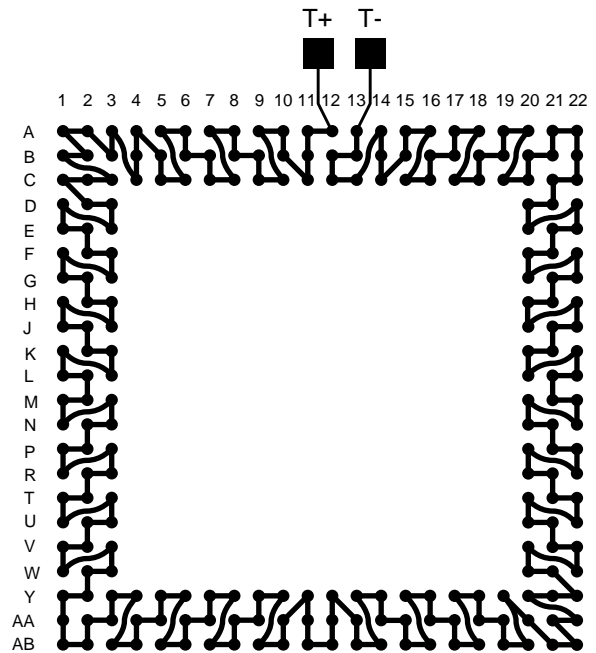
**BALL VIEW**



**BOTTOM SIDE (TOP X-RAY VIEW)**



**TEST VEHICLE BOARD**



**AFTER MOUNTING TO TEST BOARD**

# LPGA228T.5-DC223

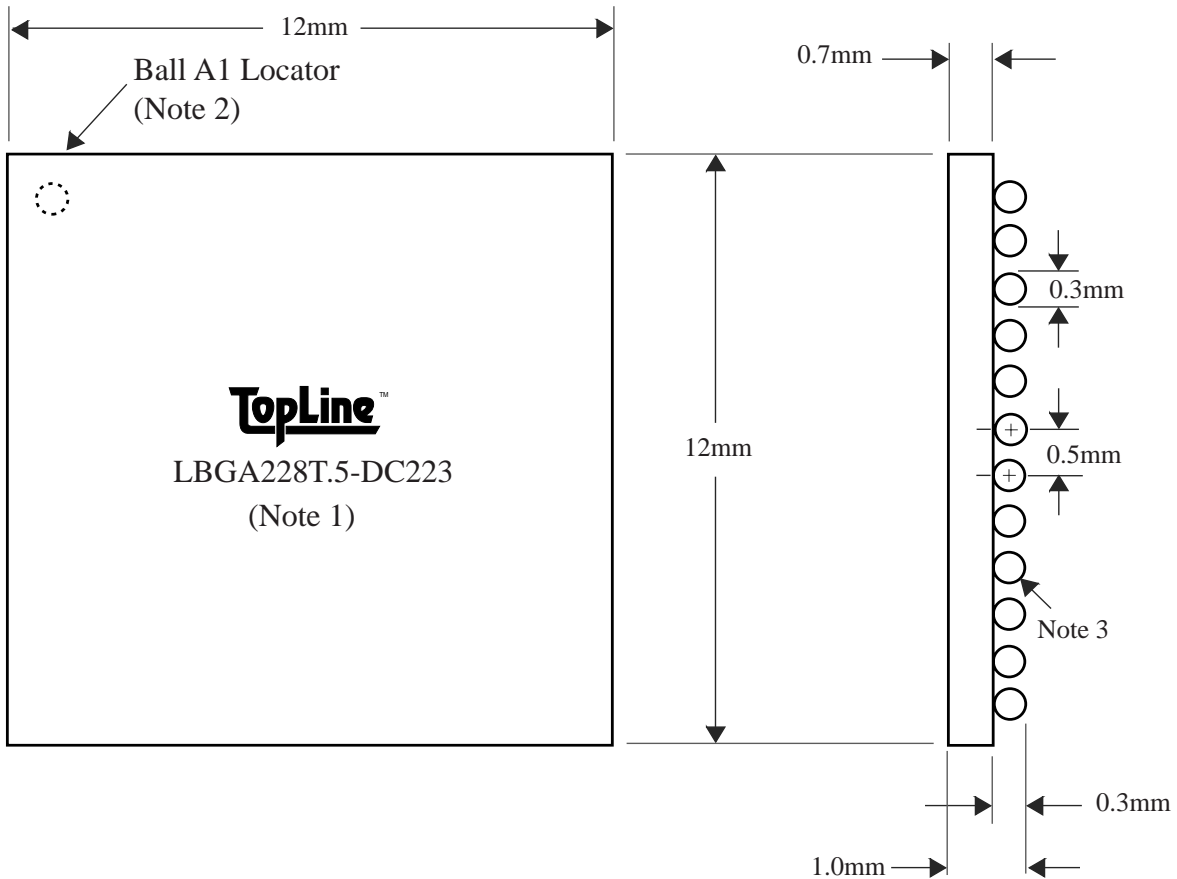


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| <u>BALLS</u> | <u>PITCH</u> | <u>SIZE</u> | <u>MATRIX</u> | <u>ROWS</u> | <u>CENTER</u> | <u>MAT'L</u> |
|--------------|--------------|-------------|---------------|-------------|---------------|--------------|
| 228          | 0.5mm        | 12mm SQ     | 22 x 22       | 3           | none          | FR4          |

**TOP VIEW**

**SIDE VIEW**



| NOTES  |   | REVISIONS                                  |             |                |
|--------|---|--|-------------|----------------|
| Note 1 | Logo and part number centered             | <u>Rev</u>                                 | <u>Date</u> | <u>Changes</u> |
| Note 2 | Ball A1 locator mark positioned in corner |  |             |                |
| Note 3 | Ball Material: Sn63                       |  |             |                |
| Note 4 | Substrate Material: FR4                   |  |             |                |
|        |   | PACKAGING TRAYS                            |             |                |
|        |   | Tray BGATRAY12mm-8x21<br>Tray Quantity 168 |             |                |