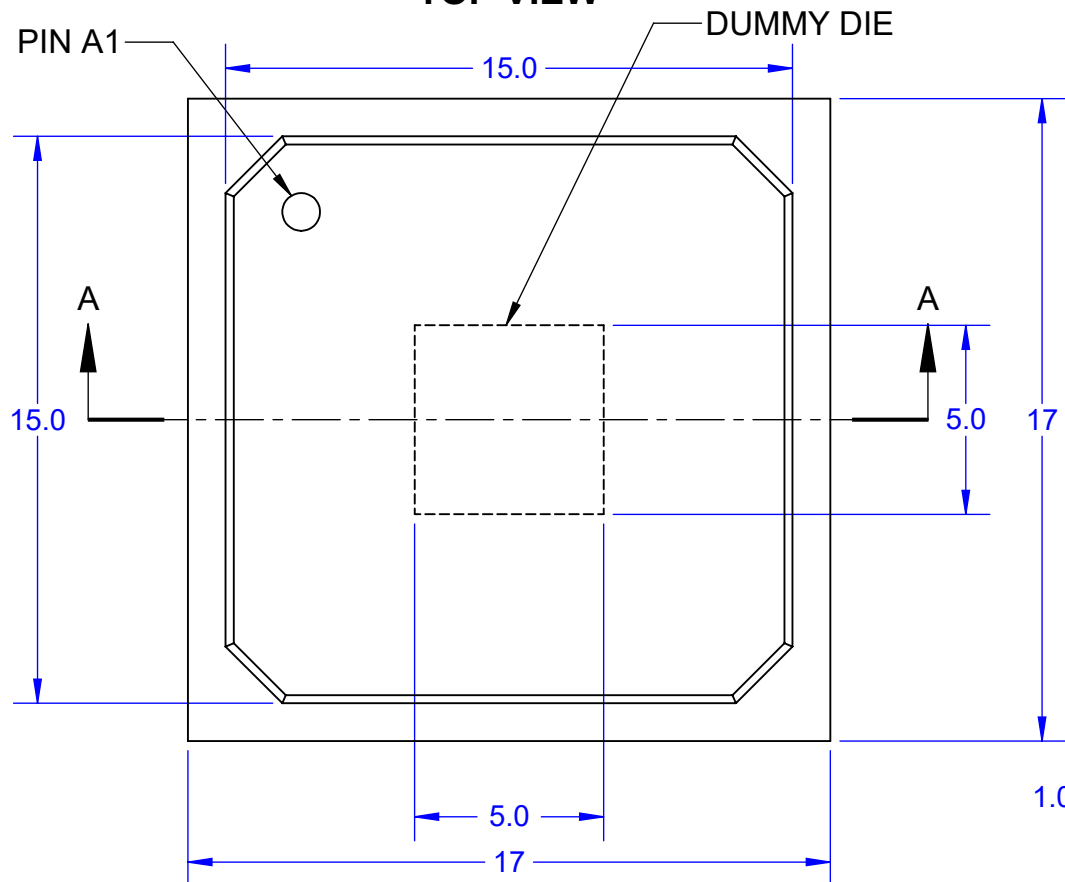
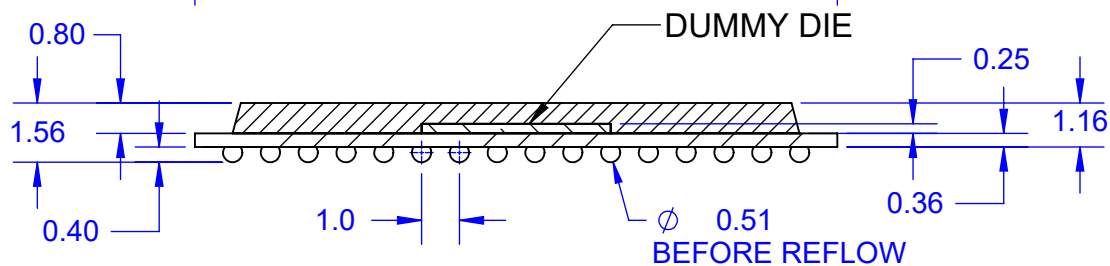
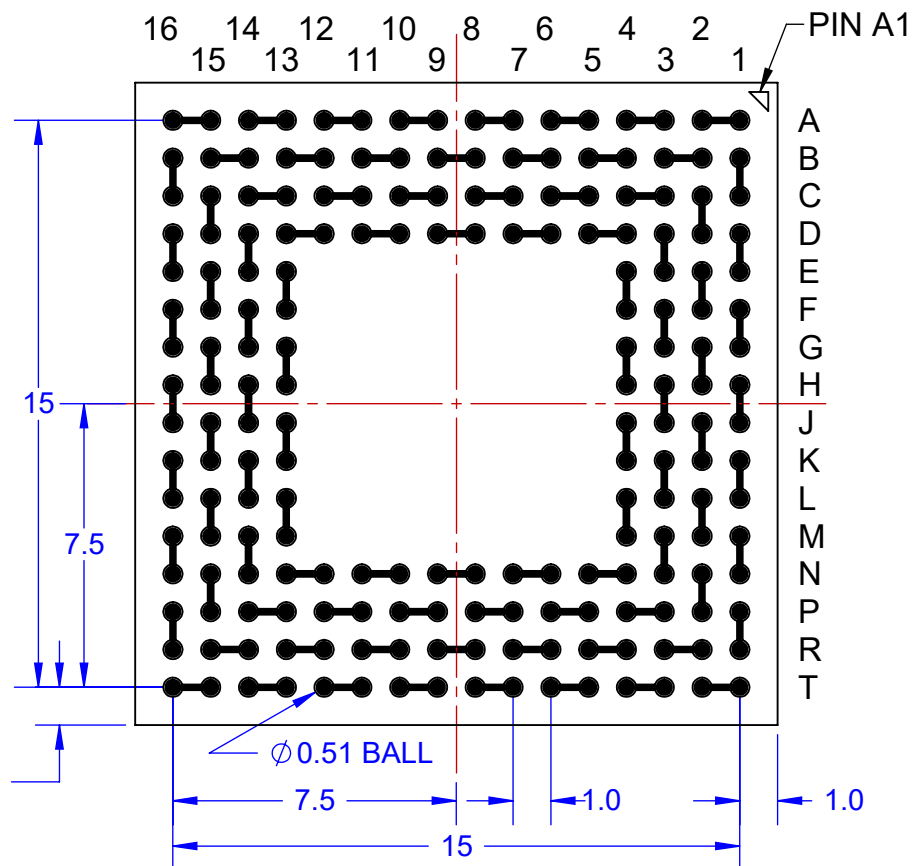


# TOP VIEW



# BALL VIEW



## SECTION A-A

Notes: (Unless Otherwise Specified).

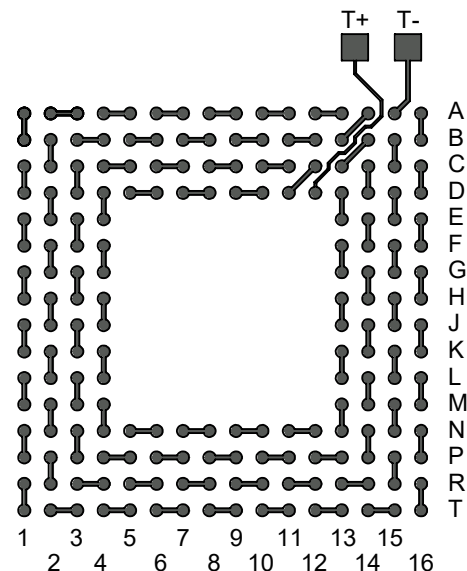
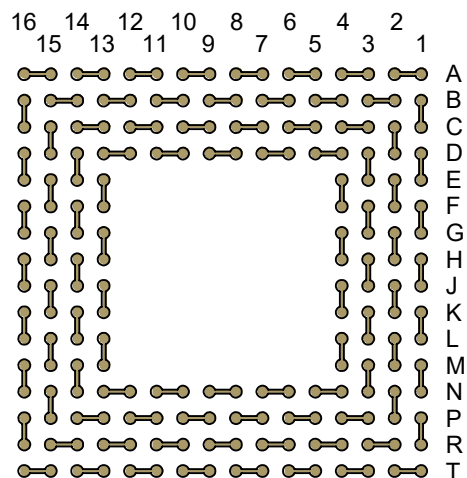
- 1) ALL DIMENSIONS: MM.
- 2) SOLDER BALL ALLOY: SEE PART NUMBER TABLE.
- 3) BALL DIAMETER (BEFORE REFLOW): 0.51mm (20 MIL).
- 4) SOLDER MASK DEFINED PAD OPENING: 0.45mm (18 MIL).
- 5) PAD Cu DIAMETER: 0.61mm (24 MIL).
- 6) SUBSTRATE MATERIAL: BT.
- 7) DUMMY DIE OPTIONAL.
- 8) DAISY CHAIN PATTERN (SEE PAGE 2).
- 9) MSL-3 RECOMMENDED BAKING 24 HOURS @ 125°C TO REMOVE MOISTURE PRIOR SOLDERING TO PC BOARD.

## PART NUMBER TABLE

| PART NUMBER         | BALL ALLOY         | BALL CODE | RoHS | Si DIE |
|---------------------|--------------------|-----------|------|--------|
| PBGA92T1.0C-DC160AD | Sn96.5/Ag3.0/Cu0.5 | SAC35     | YES  | YES    |
| PBGA92T1.0-DC160AD  | Sn63/Pb37          | Sn63      | NO   | YES    |

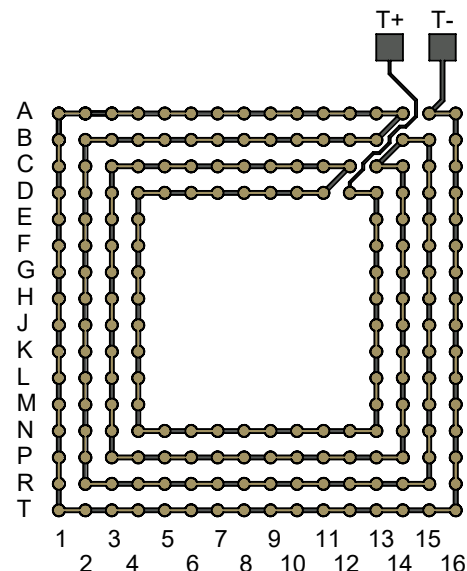
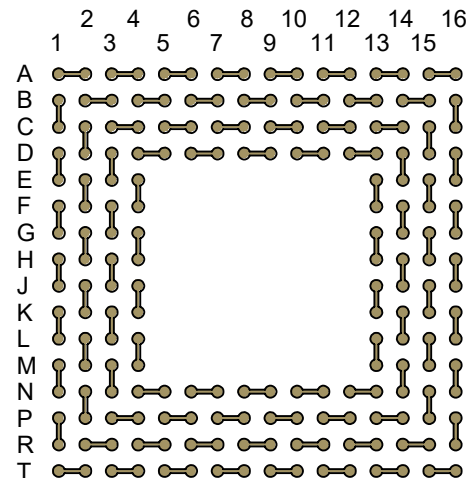
|             |           |                                                                                       |        |                    |              |
|-------------|-----------|---------------------------------------------------------------------------------------|--------|--------------------|--------------|
| APPROVALS   | DATE      |  |        |                    |              |
| DRAWN T. Au | 7/26/2025 |                                                                                       |        |                    |              |
| ENG M. Hart | 7/26/2025 | TITLE PBGA92T1.0-DC160AD DAISY CHAIN DUMMY                                            |        |                    |              |
| MFG         |           |                                                                                       |        |                    |              |
| QA          |           | SCALE 5:1                                                                             | SIZE A | DRAWING NO. 511601 | REV A        |
| CUST        |           |                                                                                       |        |                    |              |
| REVISED     |           | DO NOT SCALE DRAWING                                                                  |        |                    |              |
|             |           |                                                                                       |        |                    | SHEET 1 OF 3 |

## BALL VIEW



## TEST VEHICLE BOARD

## BOTTOM SIDE (TOP X-RAY VIEW)



## AFTER MOUNTING

### Notes:

- 1) PCB BOARD DIMENSIONS ARE PRESENTED ONLY AS A GUIDELINE. DESIGNERS SHOULD USE THEIR OWN EXPERIENCE WHEN DESIGNING PCB.
- 2) PCB Cu BALL PAD DIAMETER: 0.61mm (24 MIL).
- 3) PCB DAISY CHAIN TRACING LINE WIDTH: 0.20mm (8 MIL).
- 4) SMD (SOLDER MASK DEFINED) PAD OPENING: 0.45mm (18 MIL).

**TopLine®**

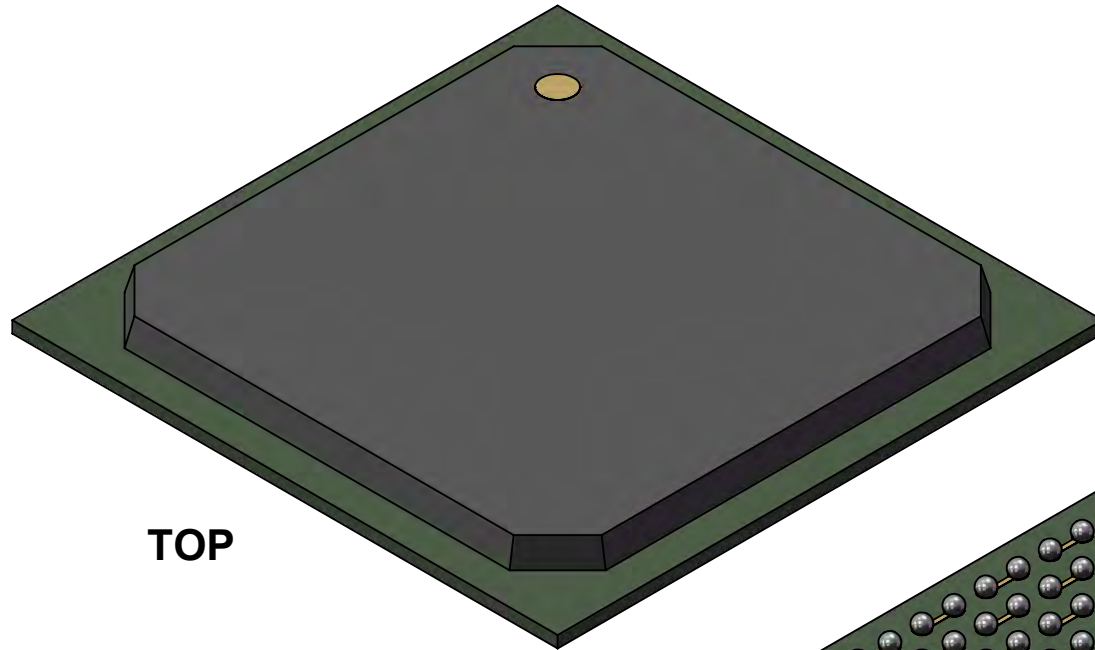
TITLE PGBA192T1.0-DC160AD  
DAISY CHAIN DUMMY

|                |           |                       |          |
|----------------|-----------|-----------------------|----------|
| SCALE<br>3.5:1 | SIZE<br>A | DRAWING NO.<br>511601 | REV<br>A |
|----------------|-----------|-----------------------|----------|

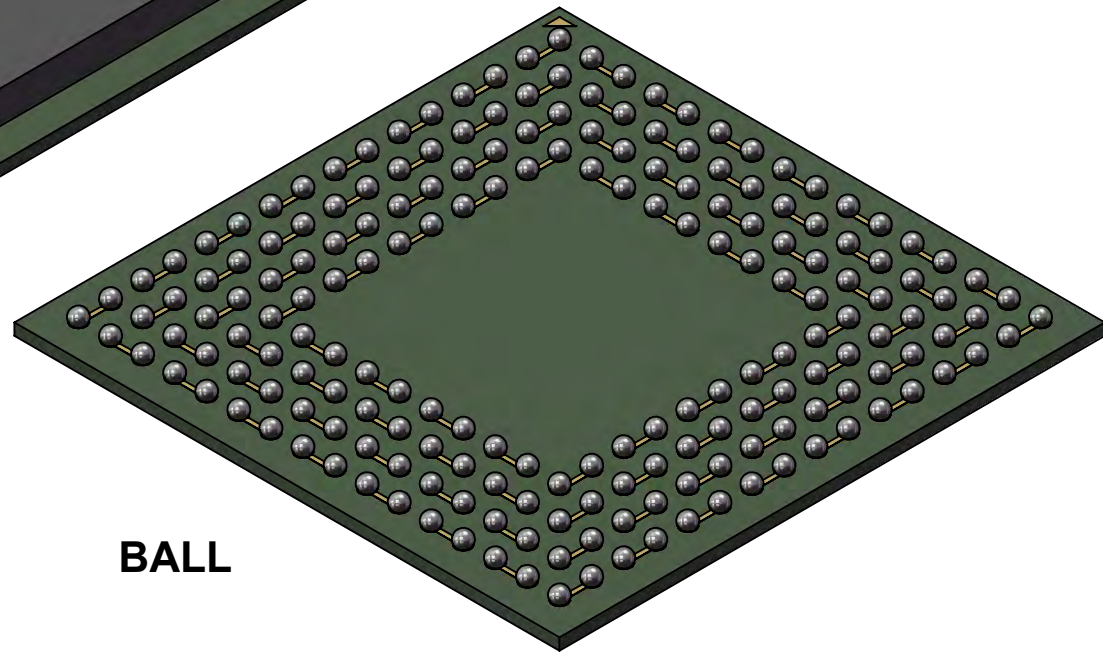
DO NOT SCALE DRAWING

SHEET 2 OF 3

# MODELS WITH BALLS



TOP



BALL

**TopLine®**

TITLE PGBA192T1.0-DC160AD  
DAISY CHAIN DUMMY

|              |           |                       |          |
|--------------|-----------|-----------------------|----------|
| SCALE<br>6:1 | SIZE<br>A | DRAWING NO.<br>511601 | REV<br>A |
|--------------|-----------|-----------------------|----------|

DO NOT SCALE DRAWING

SHEET 3 OF 3