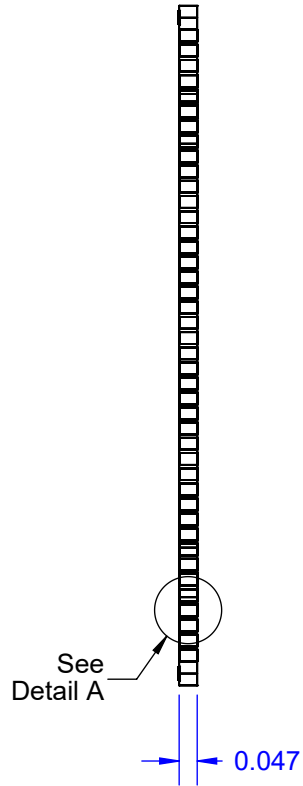
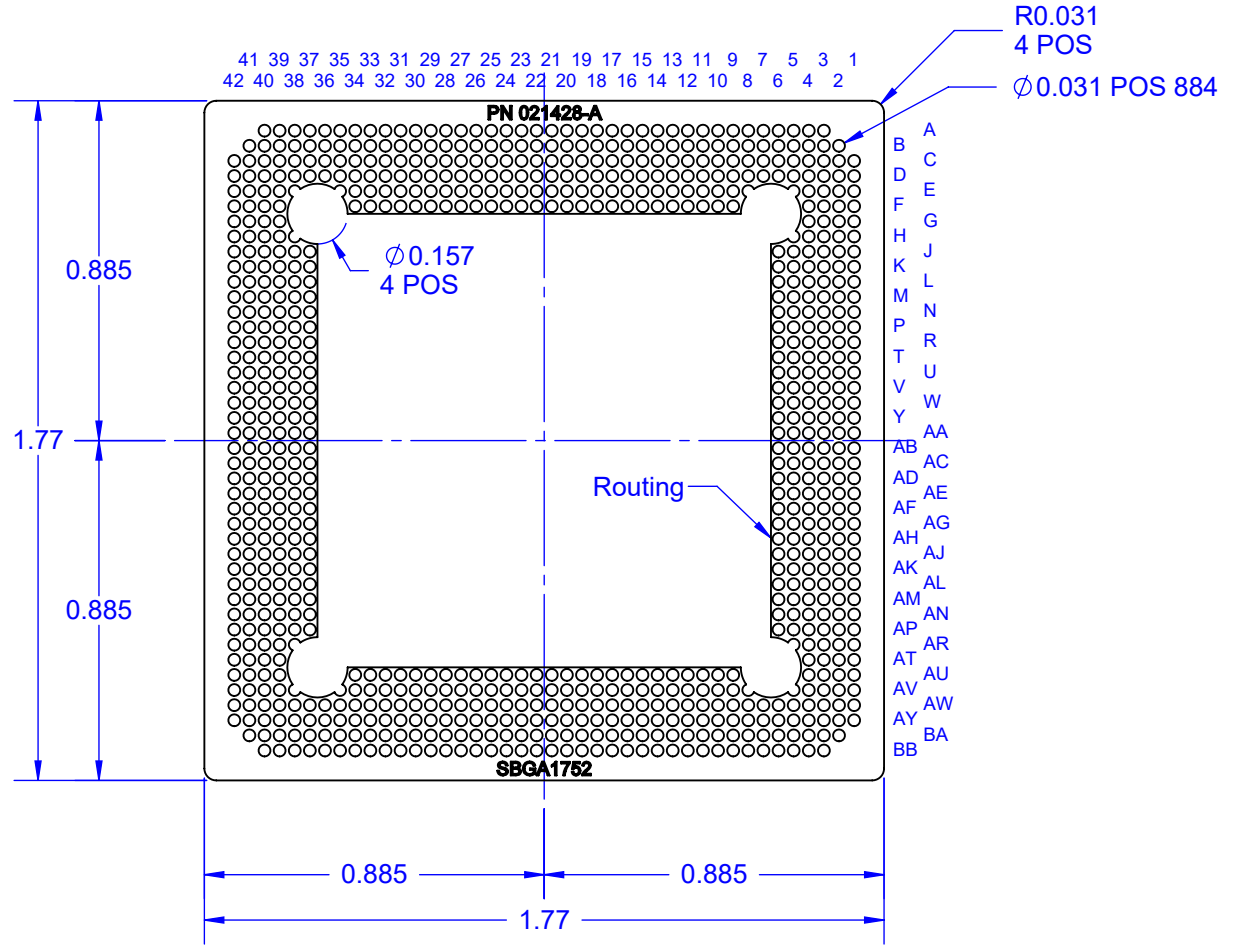


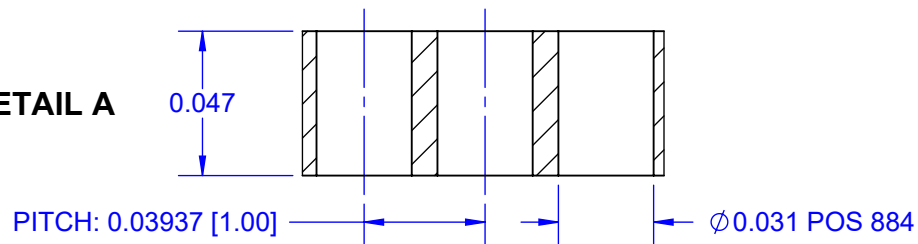
# SIDE VIEW



# TOP VIEW



## DETAIL A

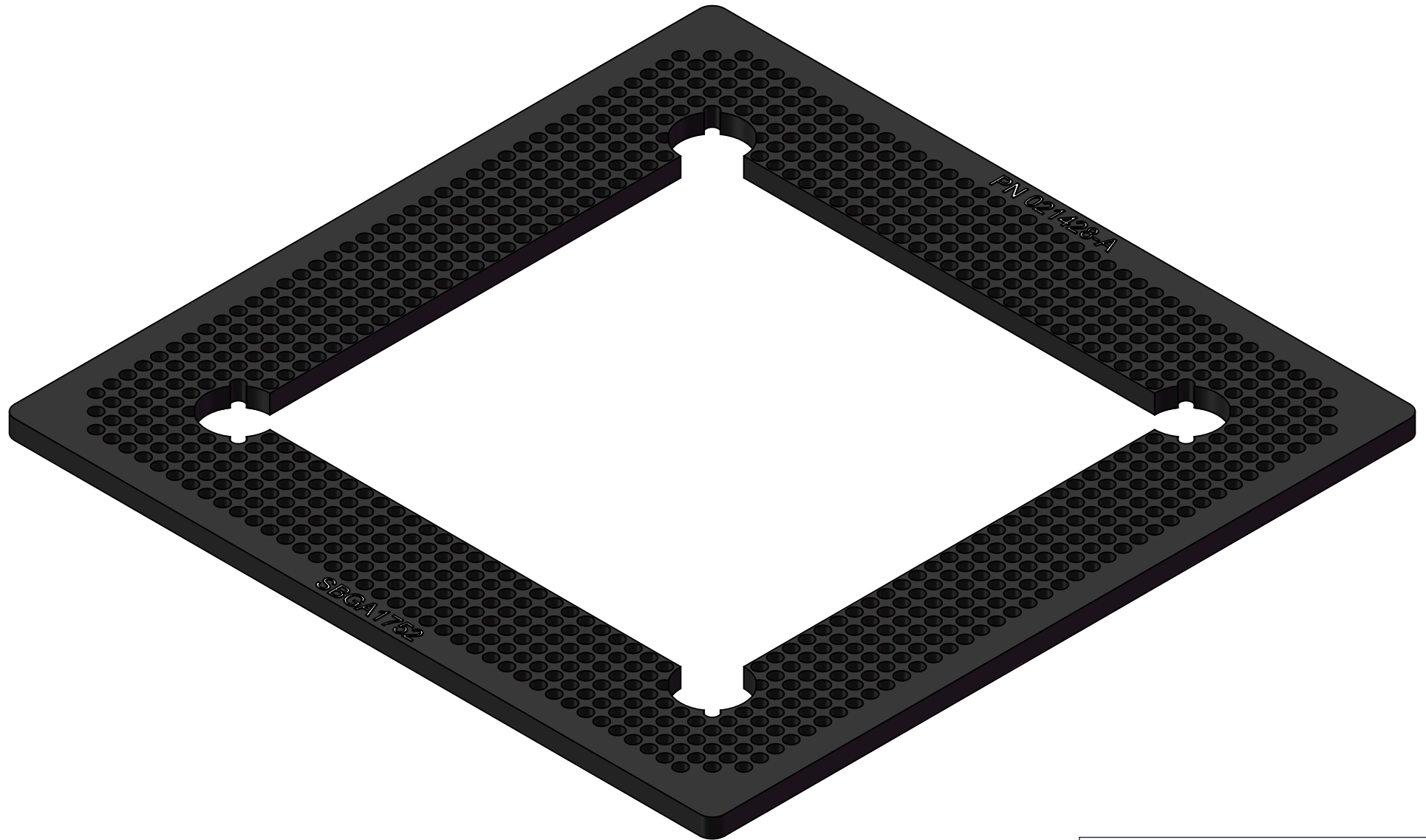


### NOTES:

1. DIMENSIONS IN INCH UNLESS OTHERWISE STATED.
2. MATERIAL: FR4 COLOR BLACK.
3. LEGEND: WHITE INK.
4. PIN REFERENCE DESIGNATORS NOT MARKED ON PCB.

|             |          |   |           |             |              |
|-------------|----------|---|-----------|-------------|--------------|
| APPROVALS   | DATE     | <b>TopLine®</b>                           |           |             |              |
| DRAWN T. Au | 06/06/16 |   |           |             |              |
| ENG M. Hart | 06/06/16 | TITLE SBGA1752 TRAY INSERT<br>45mm x 45mm |           |             |              |
| MFG         |          | SCALE<br>2:1                              | SIZE<br>A | DRAWING NO. | REV          |
| QA          |          |   |           | 021428      | A            |
| CUST        |          | DO NOT SCALE DRAWING                      |           |             | SHEET 1 OF 9 |
| REVISED     |          |   |           |             |              |

# MODEL TOP



**TopLine**<sup>®</sup>

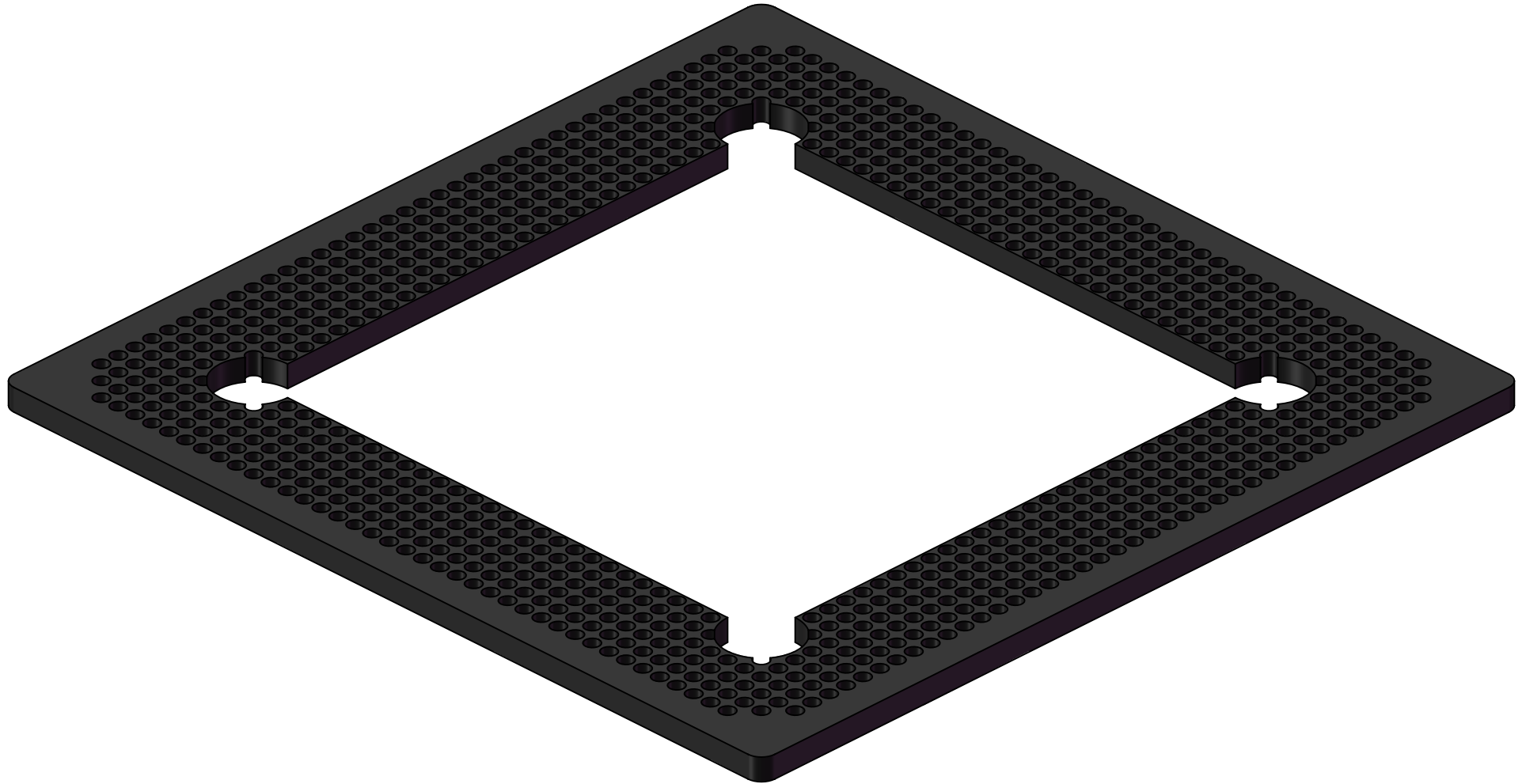
TITLE SBGA1752 TRAY INSERT  
45mm x 45mm

|              |           |                       |          |
|--------------|-----------|-----------------------|----------|
| SCALE<br>4:1 | SIZE<br>A | DRAWING NO.<br>021428 | REV<br>A |
|--------------|-----------|-----------------------|----------|

DO NOT SCALE DRAWING

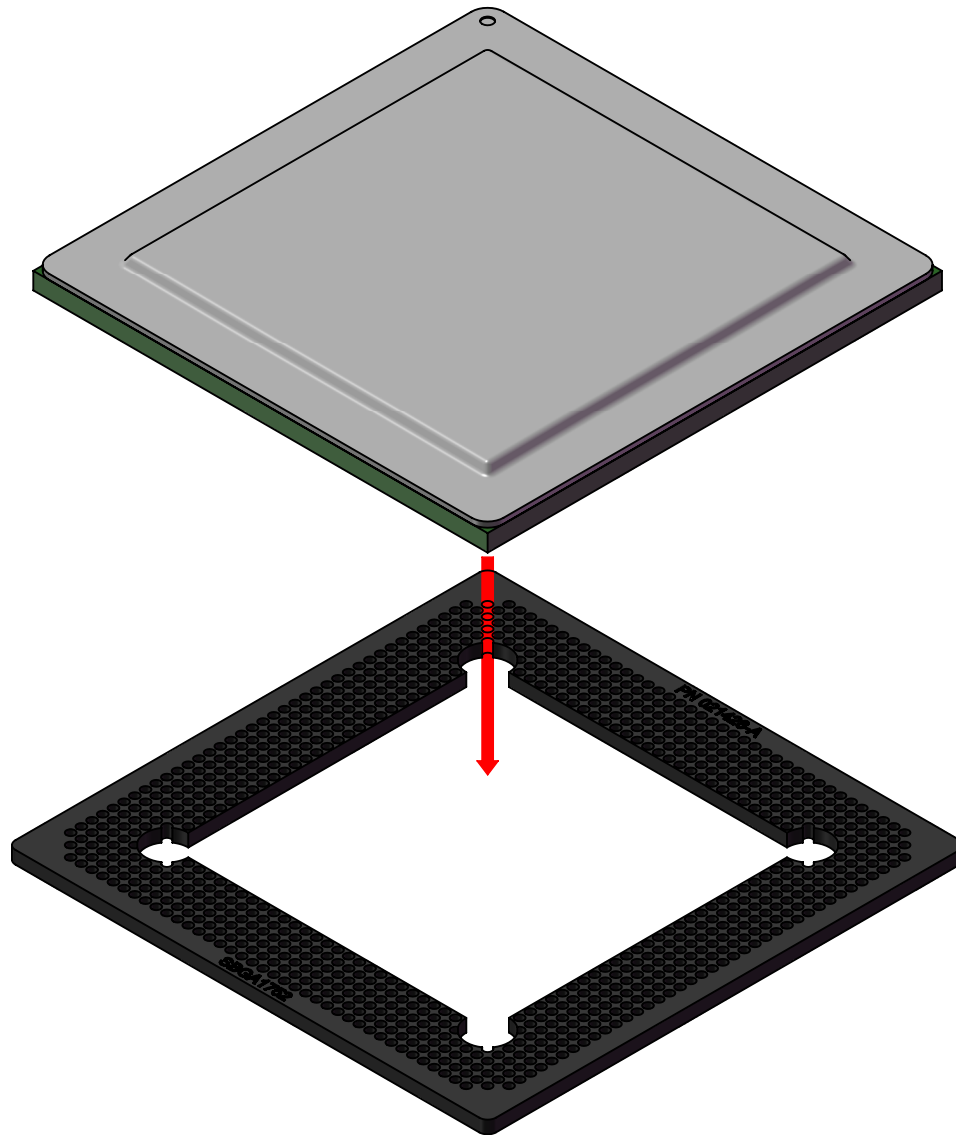
SHEET 3 OF 9

# MODEL BOTTOM



|                            |      |                                     |              |
|----------------------------|------|-------------------------------------|--------------|
| <b>TopLine<sup>®</sup></b> |      |                                     |              |
| TITLE                      |      | SBGA1752 TRAY INSERT<br>45mm x 45mm |              |
| SCALE                      | SIZE | DRAWING NO.                         | REV          |
| 4:1                        | A    | 021428                              | A            |
| DO NOT SCALE DRAWING       |      |                                     | SHEET 4 OF 9 |

**EXPLODED VIEW  
TOP**



**SBGA1752  
DWG 514275**

**TRAY INSERT  
DWG 021428**

**TopLine®**

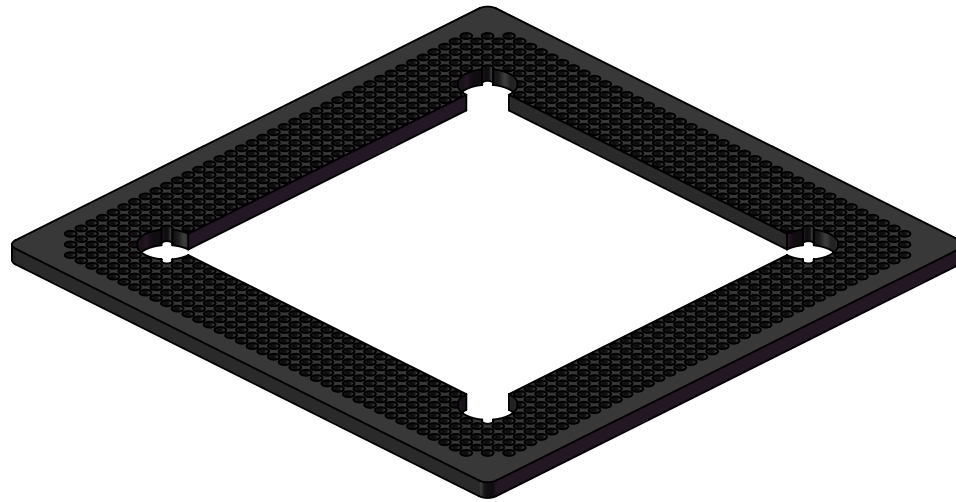
TITLE SBGA1752 TRAY INSERT  
45mm x 45mm

|              |           |                       |          |
|--------------|-----------|-----------------------|----------|
| SCALE<br>2:1 | SIZE<br>A | DRAWING NO.<br>021428 | REV<br>A |
|--------------|-----------|-----------------------|----------|

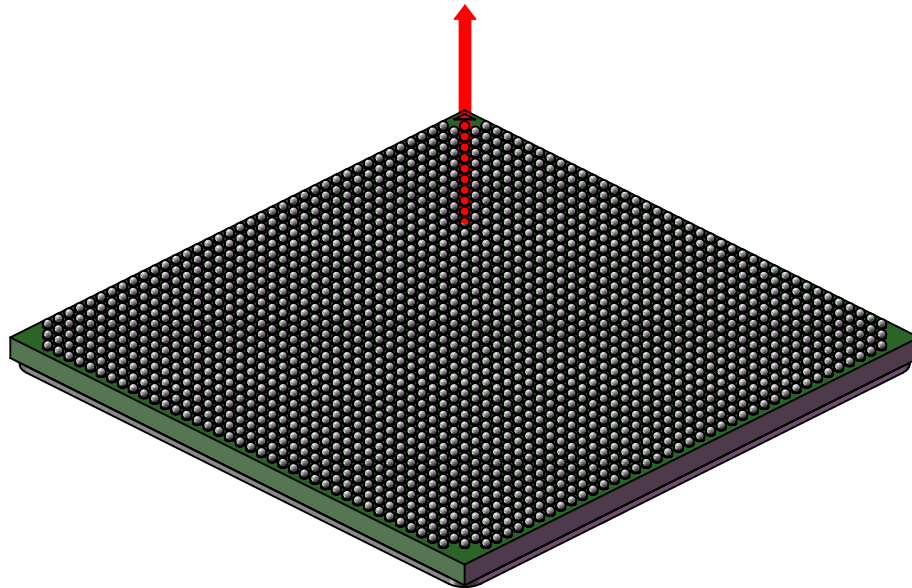
DO NOT SCALE DRAWING

SHEET 5 OF 9

**EXPLODED VIEW  
TOP**



**TRAY INSERT  
DWG 021428**



**SBGA1752  
DWG 514275**

**TopLine®**

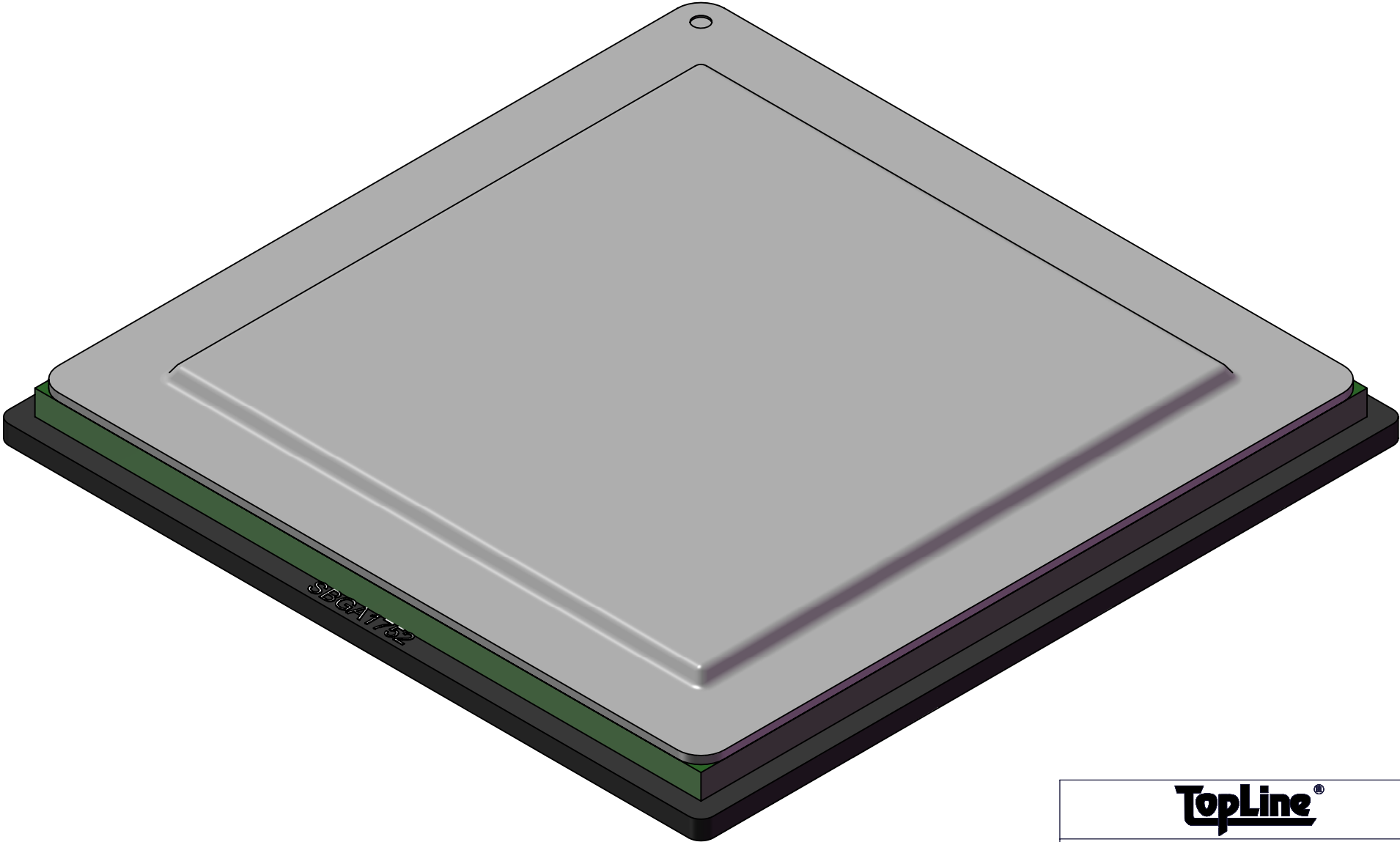
TITLE SBGA1752 TRAY INSERT  
45mm x 45mm

|              |           |                       |          |
|--------------|-----------|-----------------------|----------|
| SCALE<br>2:1 | SIZE<br>A | DRAWING NO.<br>021428 | REV<br>A |
|--------------|-----------|-----------------------|----------|

DO NOT SCALE DRAWING

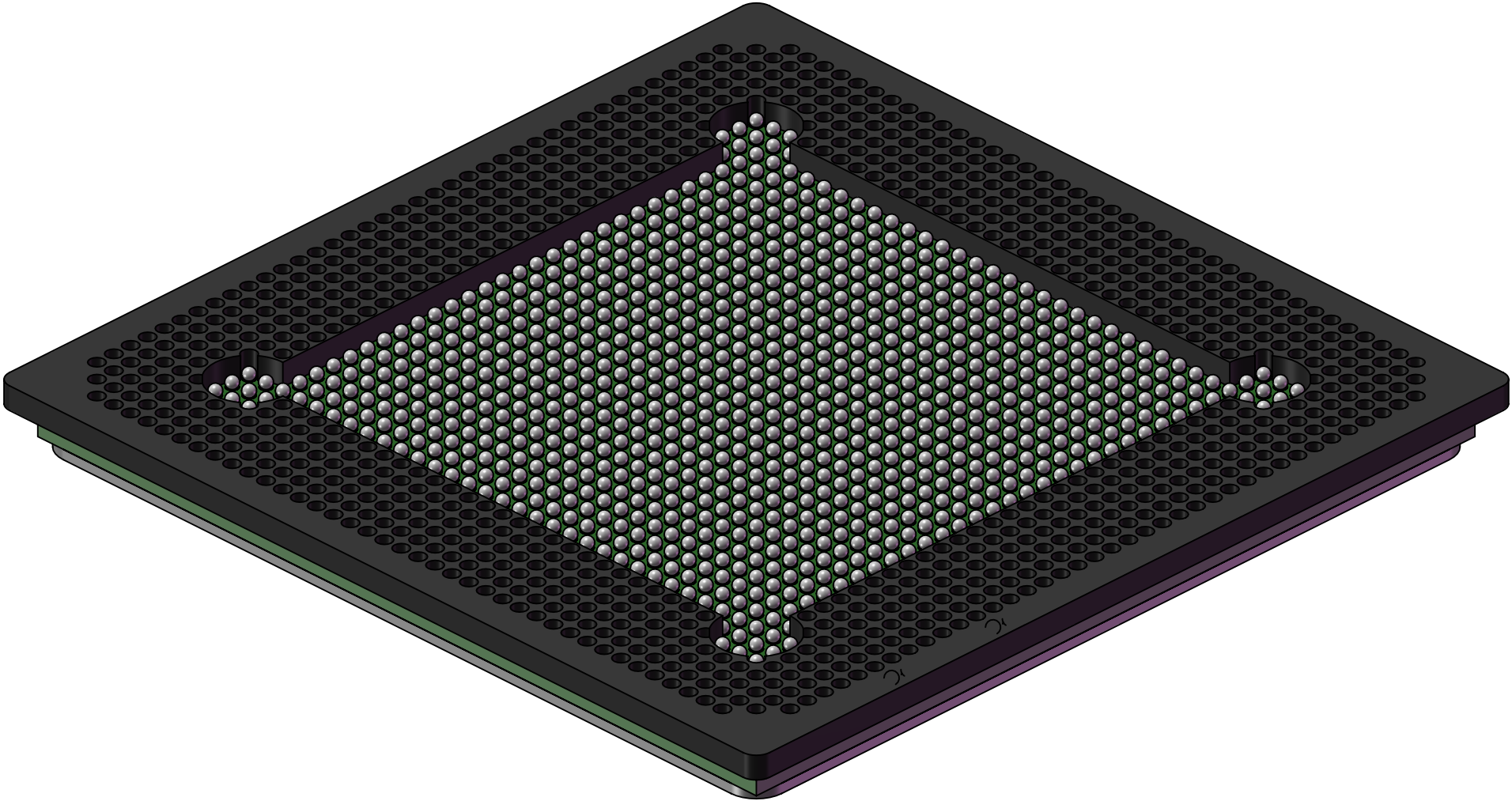
SHEET 6 OF 9

MATING VIEW  
TOP



|                            |      |                                     |              |
|----------------------------|------|-------------------------------------|--------------|
| <b>TopLine<sup>®</sup></b> |      |                                     |              |
| TITLE                      |      | SBGA1752 TRAY INSERT<br>45mm x 45mm |              |
| SCALE                      | SIZE | DRAWING NO.                         | REV          |
| 4:1                        | A    | 021428                              | A            |
| DO NOT SCALE DRAWING       |      |                                     | SHEET 7 OF 9 |

MATING VIEW  
BOTTOM



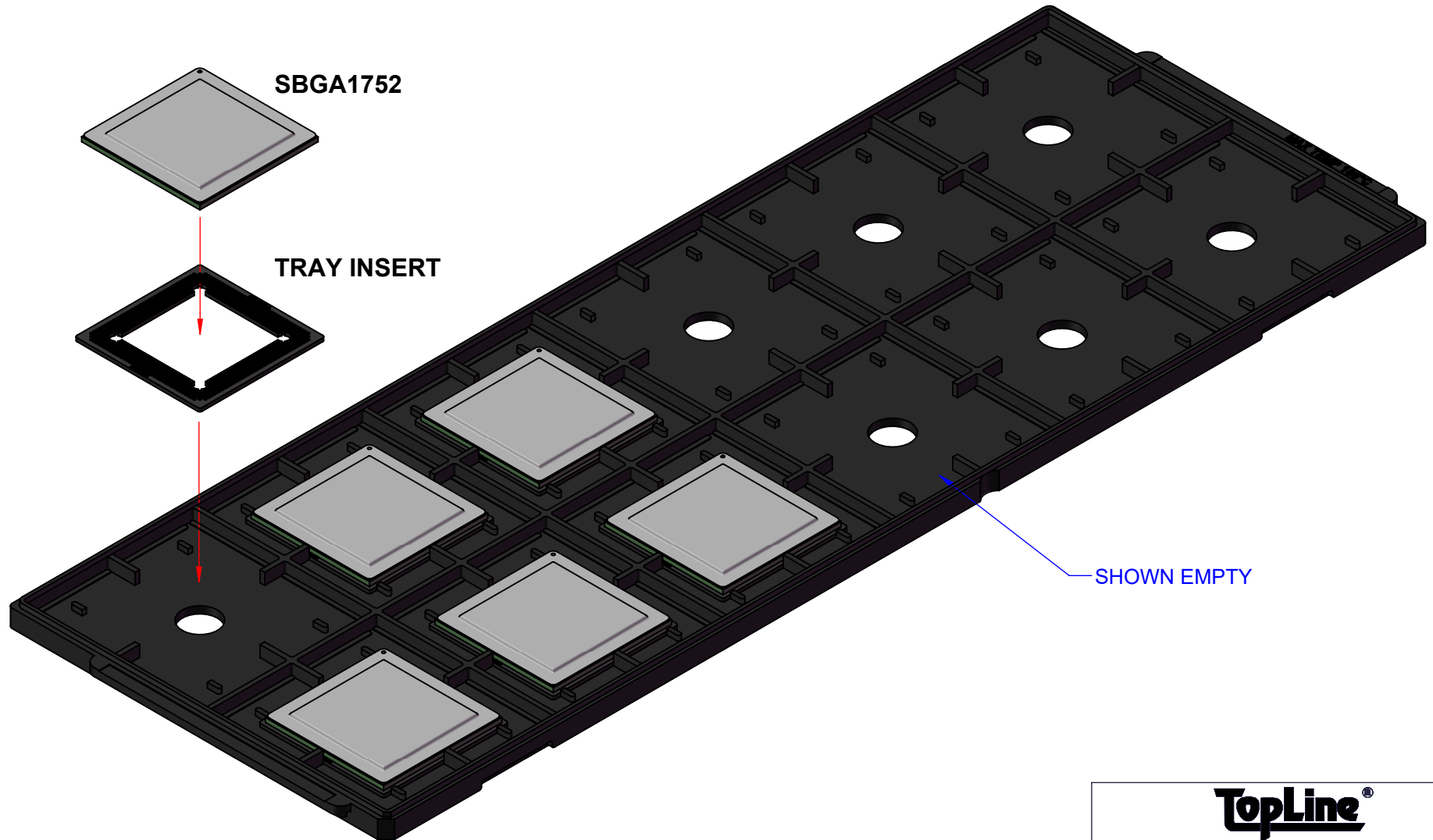
**TopLine**<sup>®</sup>

TITLE SBGA1752 TRAY INSERT  
45mm x 45mm

|              |           |                       |          |
|--------------|-----------|-----------------------|----------|
| SCALE<br>4:1 | SIZE<br>A | DRAWING NO.<br>021428 | REV<br>A |
|--------------|-----------|-----------------------|----------|

DO NOT SCALE DRAWING SHEET 8 OF 9

# SEATING IN JEDEC TRAY BGA 45x45mm TRAY



SBGA1752

TRAY INSERT

SHOWN EMPTY

**TopLine**<sup>®</sup>

TITLE SBGA1752 TRAY INSERT  
45mm x 45mm

|              |           |                       |          |
|--------------|-----------|-----------------------|----------|
| SCALE<br>2:3 | SIZE<br>A | DRAWING NO.<br>021428 | REV<br>A |
|--------------|-----------|-----------------------|----------|

DO NOT SCALE DRAWING

SHEET 9 OF 9