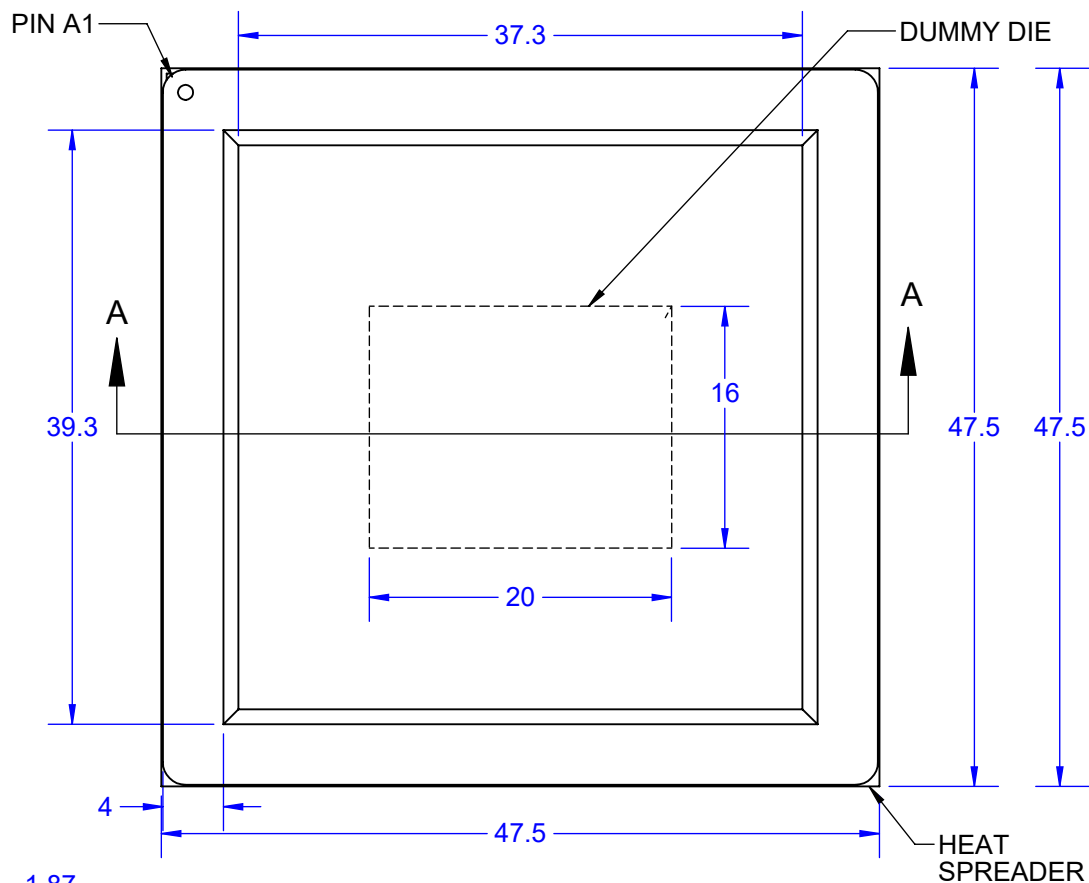
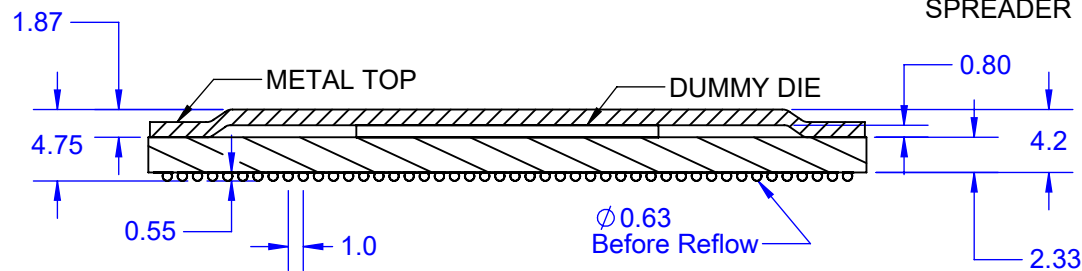
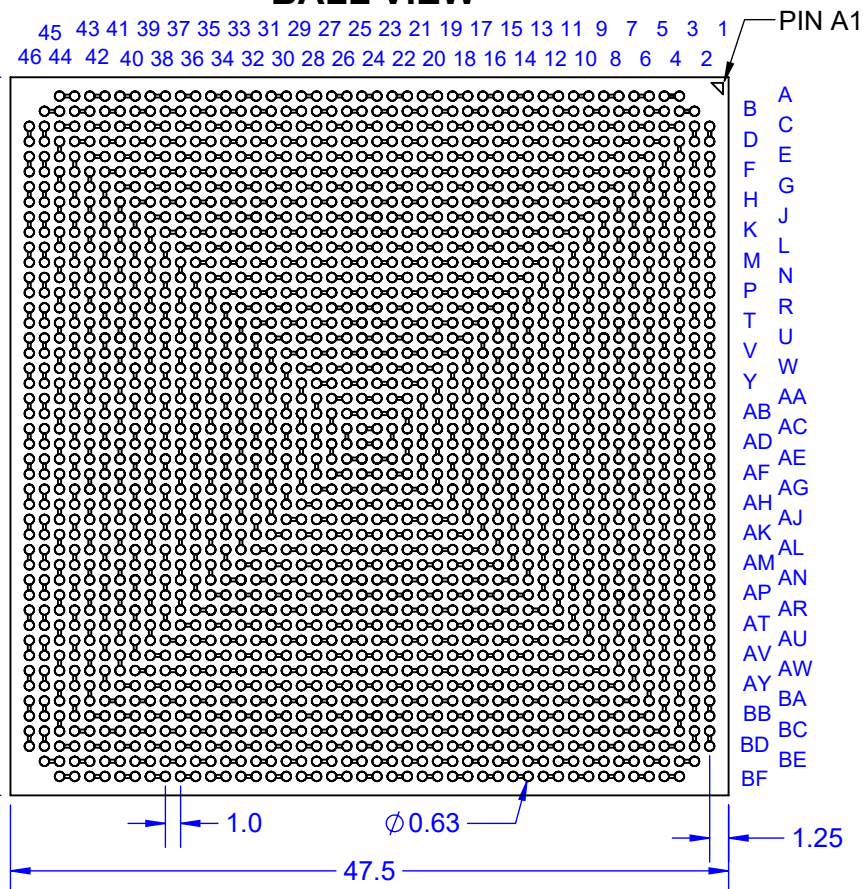


TOP VIEW



BALL VIEW



SECTION A-A

Notes: (Unless Otherwise Specified).

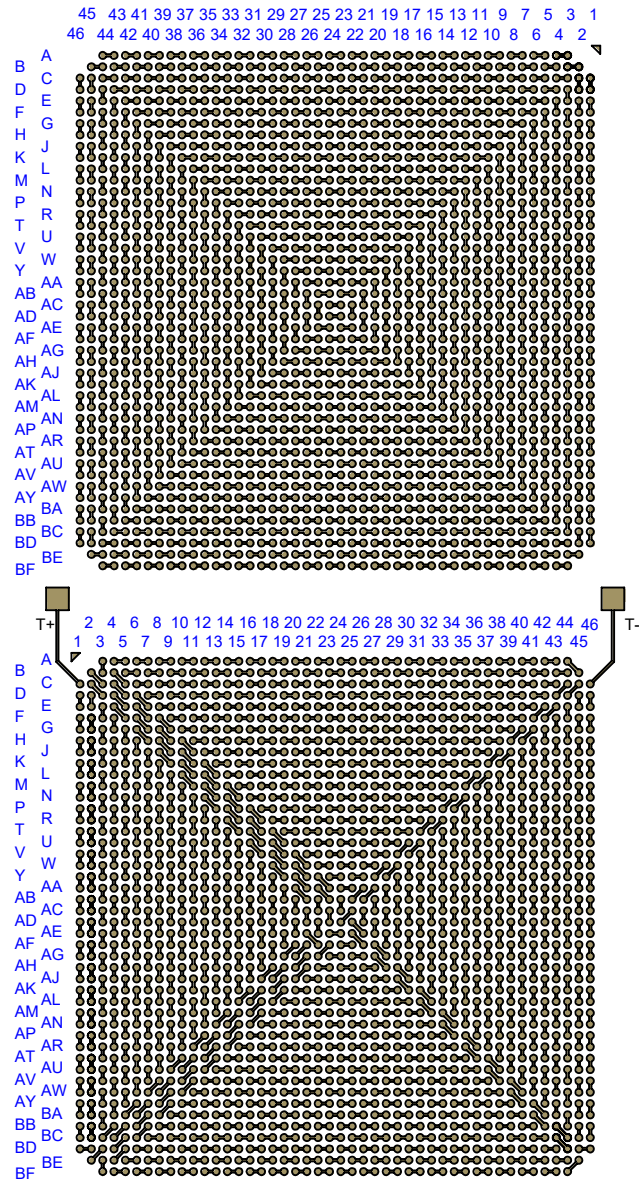
- 1) ALL DIMENSIONS ARE IN MM.
- 2) SOLDER BALL ALLOY: SEE PART NUMBER TABLE.
- 3) BALL DIAMETER (BEFORE REFLOW): 0.635mm (25 MIL).
- 4) SOLDER MASK DEFINED PAD OPENING: 0.508mm (20 MIL).
- 5) PAD Cu DIAMETER: 0.635mm (25 MIL).
- 6) SUBSTRATE MATERIAL: BT (ALTERNATE FR4 or Polyimide).
- 7) DUMMY DIE IS 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

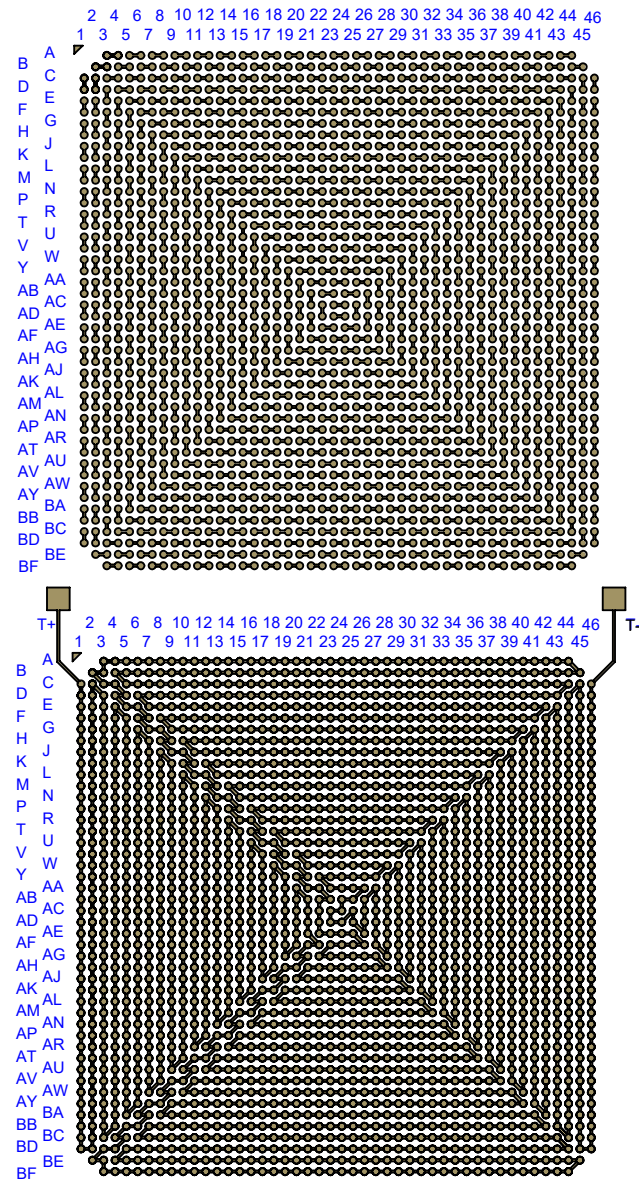
PART NUMBER	BALL ALLOY	BALL ALLOY	RoHS	Si DIE
SBGA2104T1.0C-DC467D	Sn96.5/Ag3.0/Cu0.5	SAC305	YES	YES
SBGA2104T1.0-DC467D	Sn63/Pb37	Sn63	NO	YES

APPROVALS	DATE				
DRAWN T.Au	1/10/2021				
ENG M. Hart	1/10/2021	TITLE SBGA2104T1.0C-DC467D DAISY CHAIN DUMMY			
MFG					
QA		SCALE 2:1	SIZE A	DRAWING NO. 514676	REV A
CUST					
REVISED		DO NOT SCALE DRAWING			
					SHEET 1 OF 9

BALL VIEW



BOTTOM SIDE (TOP X-RAY VIEW)



TEST VEHICLE BOARD

AFTER MOUNTING

Notes:

- 1) PCB BOARD DIMENSIONS ARE PRESENTD ONLY AS A GUIDELINE. DESIGNERS SHOULD USE THEIR OWN EXPERIENCE WHEN DESIGNING PCB.
- 2) PCB Cu BALL PAD DIAMETER 0.635mm [25 MIL].
- 3) PCB DAISY CHAIN TRACING LINE WIDTH 0.204mm [8 MIL].
- 4) SMD (SOLDER MASK DEFINED) PAD OPENING 0.508mm [20 MIL].

TopLine®

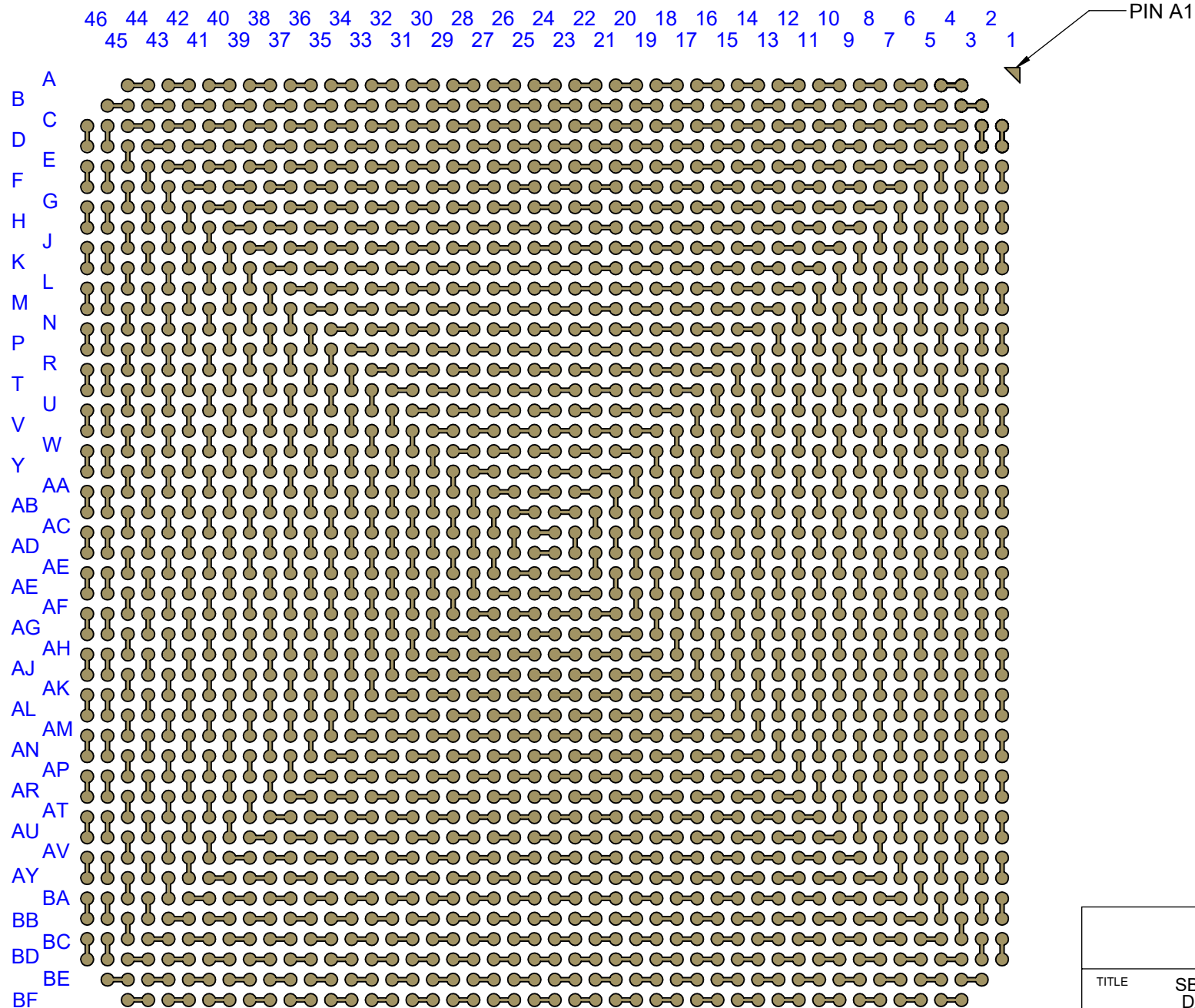
TITLE SBGA2104T1.0C-DC467D
DAISY CHAIN DUMMY

SCALE 3:2	SIZE A	DRAWING NO. 514676	REV A
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DO NOT SCALE DRAWING

SHEET 2 OF 9

BALL VIEW



TopLine®

TITLE SBGA2104T1.0C-DC467D
DAISY CHAIN DUMMY

SCALE 3.5:1	SIZE A	DRAWING NO. 514676	REV A
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DO NOT SCALE DRAWING

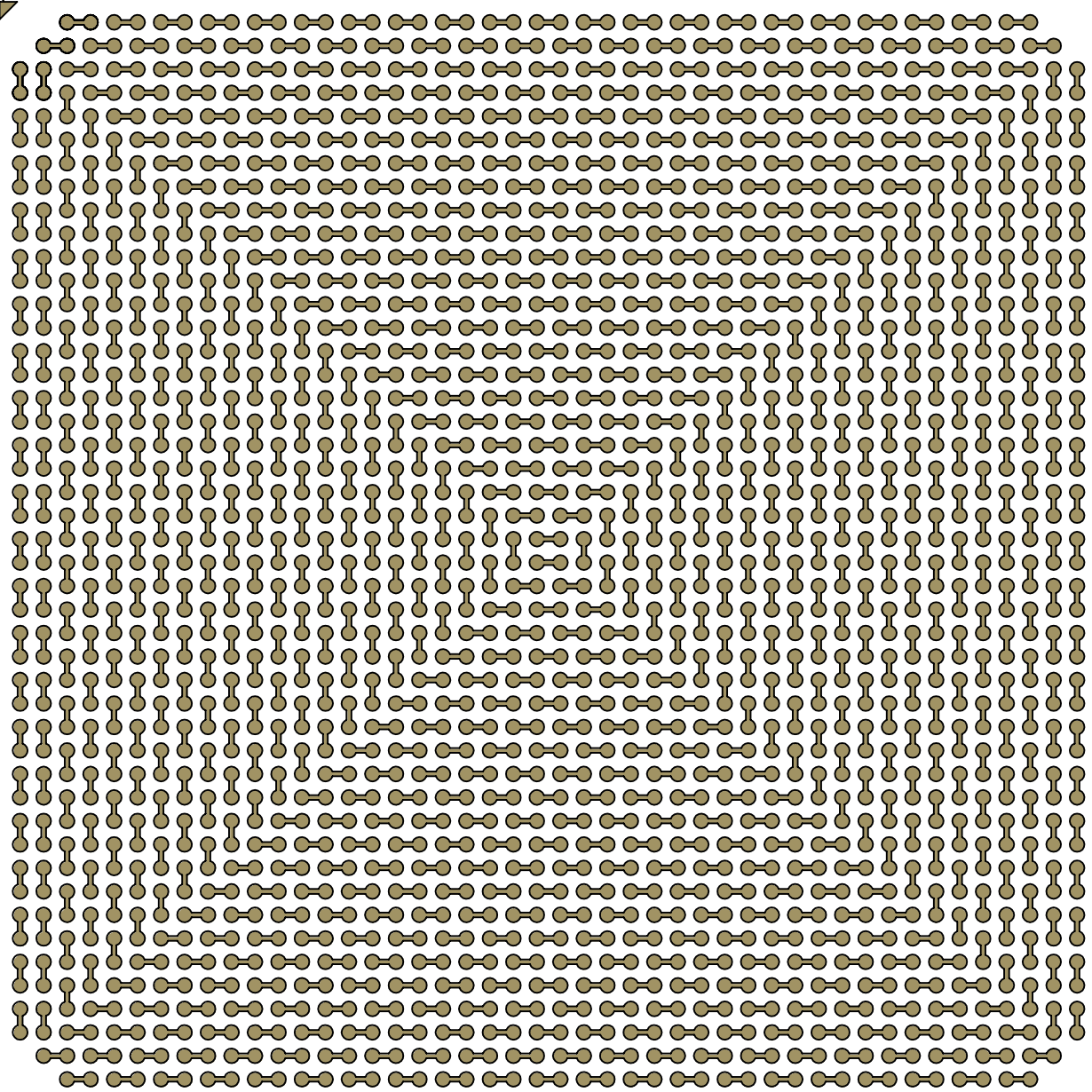
SHEET 3 OF 9

BOTTOM SIDE (TOP X-RAY VIEW)

PIN A1

1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46

A
B C
D E
F G
H J
K L
M N
P R
T U
V W
Y AA
AB AC
AD AE
AE AF
AG AH
AJ AK
AL AM
AN AP
AR AT
AU AV
AY BA
BB BC
BD BE
BF



TopLine®

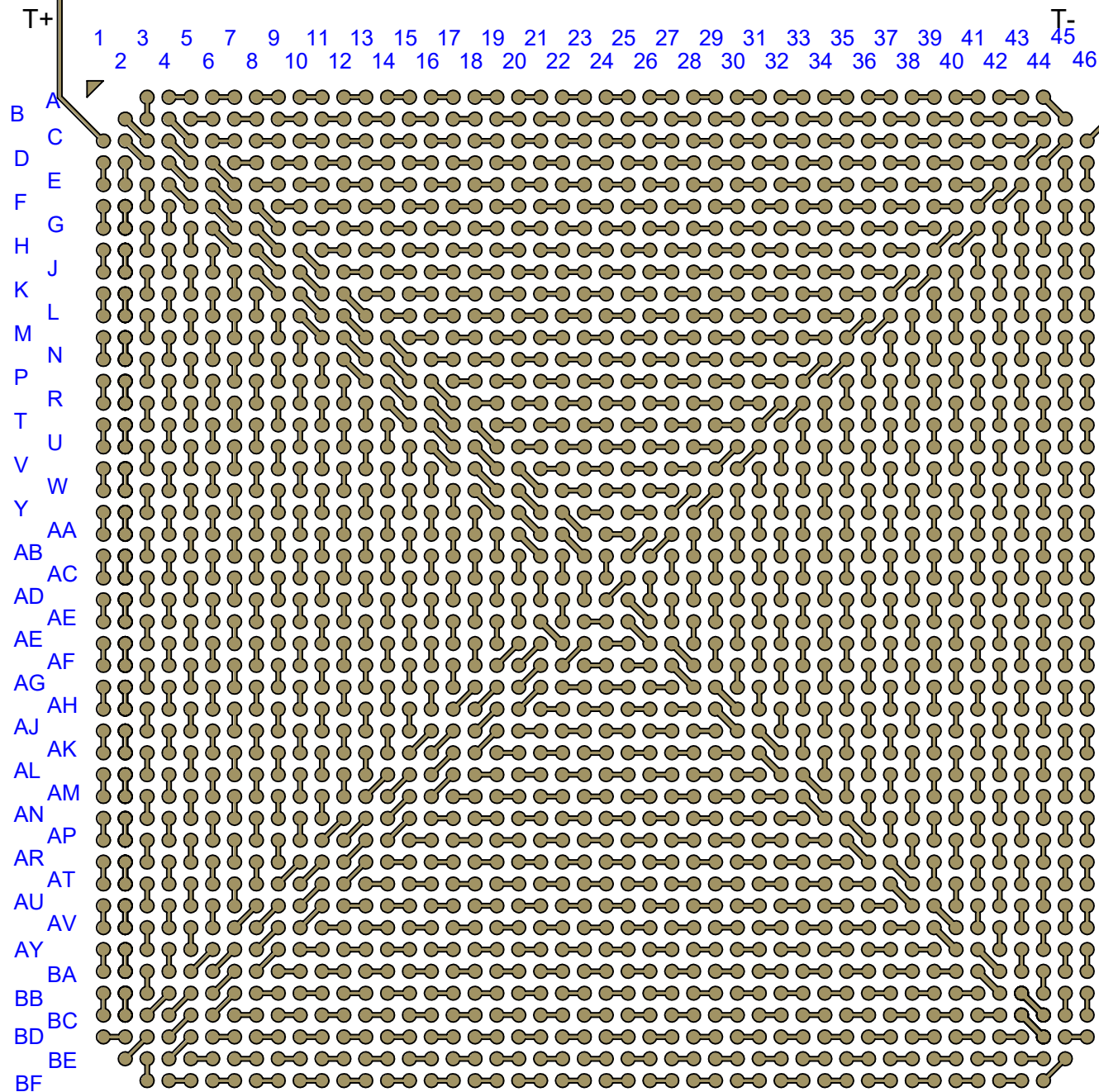
TITLE SBGA2104T1.0C-DC467D
DAISY CHAIN DUMMY

SCALE 3.5:1	SIZE A	DRAWING NO. 514676	REV A
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DO NOT SCALE DRAWING

SHEET 4 OF 9

TEST VEHICLE BOARD



Notes:

- 1) PCB BOARD DIMENSIONS ARE PRESENTD ONLY AS A GUIDELINE.
DESIGNERS SHOULD USE THEIR OWN EXPERIENCE WHEN DESIGNING PCB.
- 2) PCB Cu BALL PAD DIAMETER 0.635mm [25 MIL].
- 3) PCB DAISY CHAIN TRACING LINE WIDTH 0.204mm [8 MIL].
- 4) SMD (SOLDER MASK DEFINED) PAD OPENING 0.508mm [20 MIL].

TopLine®

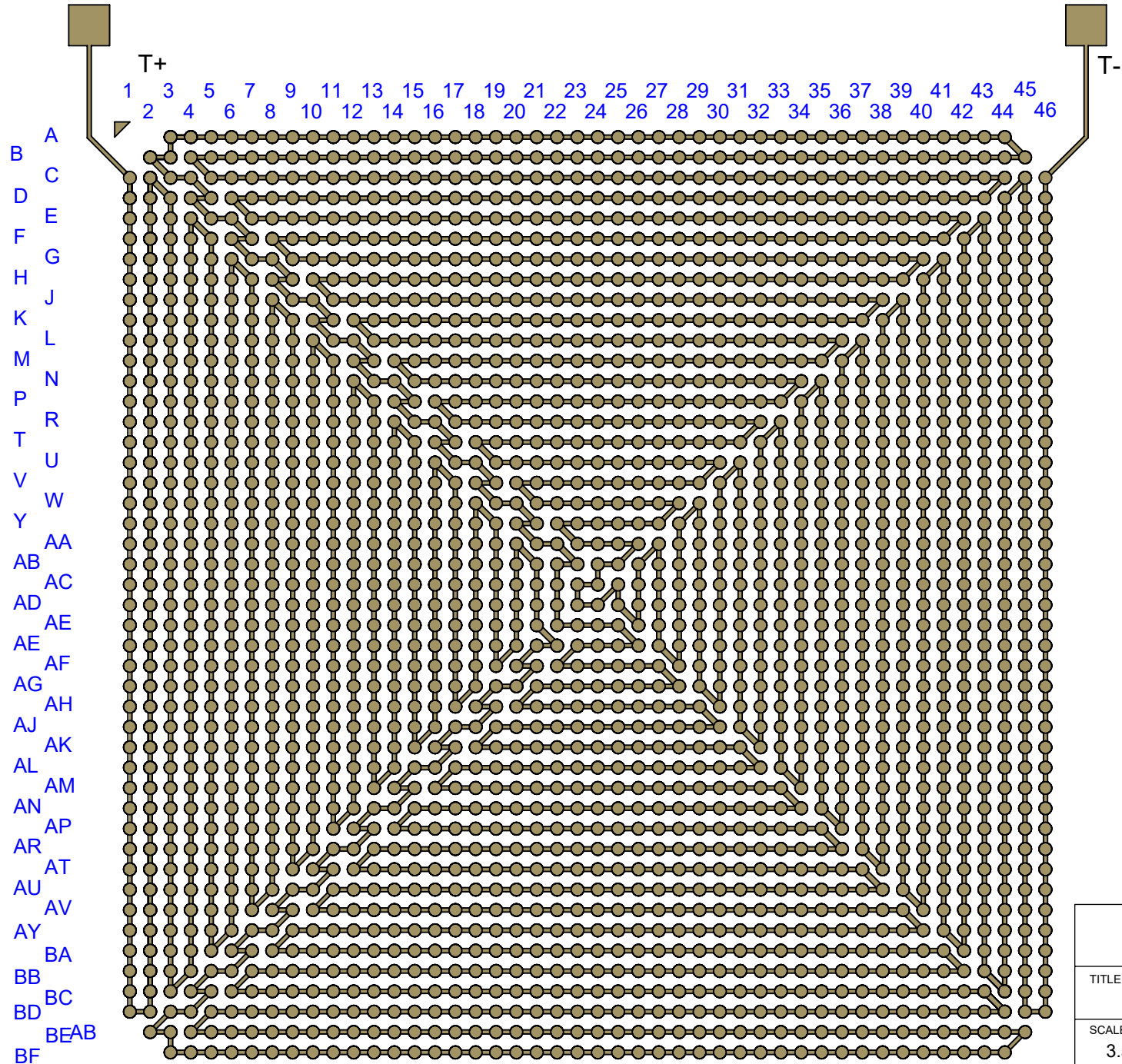
TITLE SBGA2104T1.0C-DC467D
DAISY CHAIN DUMMY

SCALE 3.5:1	SIZE A	DRAWING NO. 514676	REV A
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DO NOT SCALE DRAWING

SHEET 5 OF 9

AFTER MOUNTING



TopLine®

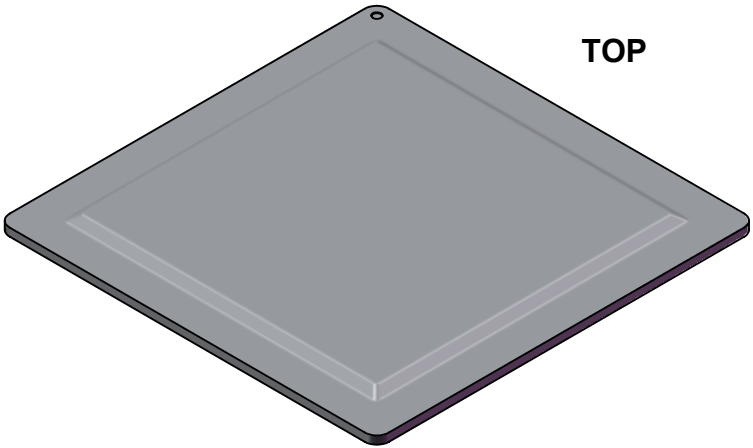
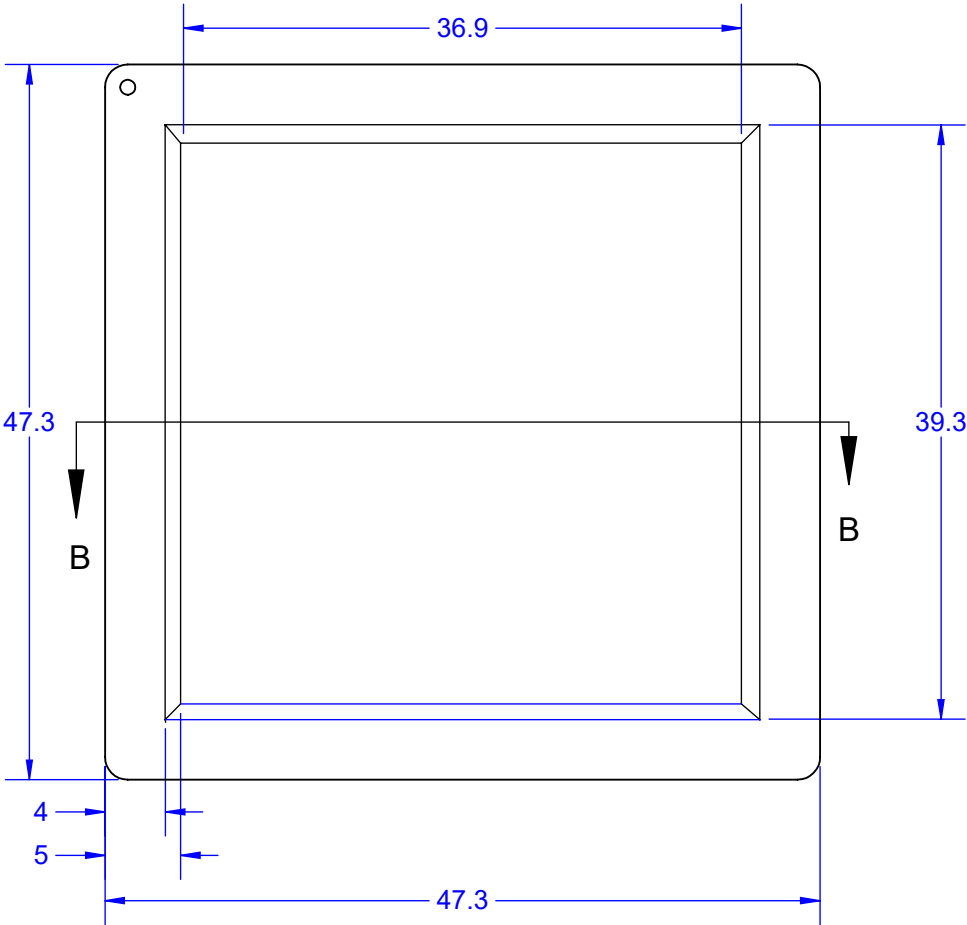
TITLE SBGA2104T1.0C-DC467D
DAISY CHAIN DUMMY

SCALE 3.5:1	SIZE A	DRAWING NO. 514676	REV A
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DO NOT SCALE DRAWING

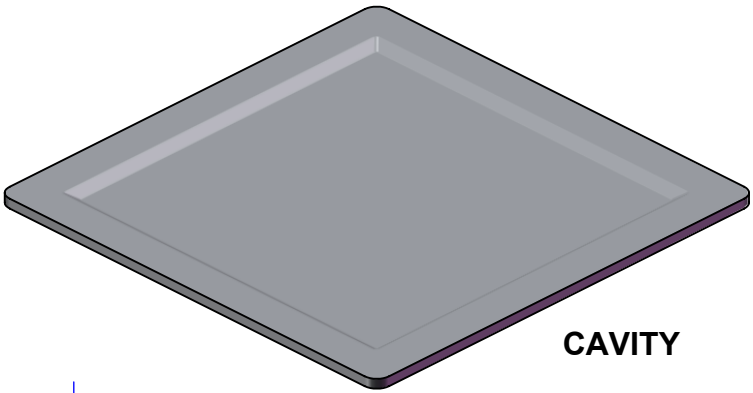
SHEET 6 OF 9

HEAT SPREADER

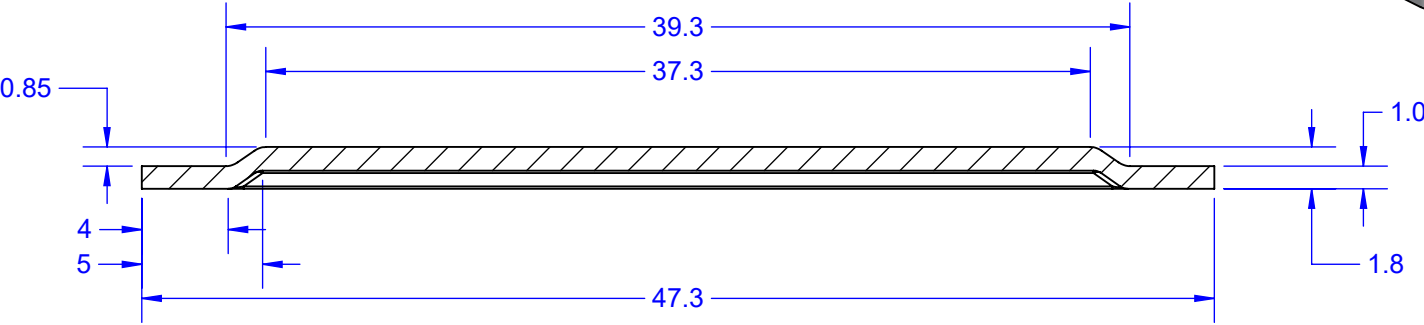


TOP

MODEL



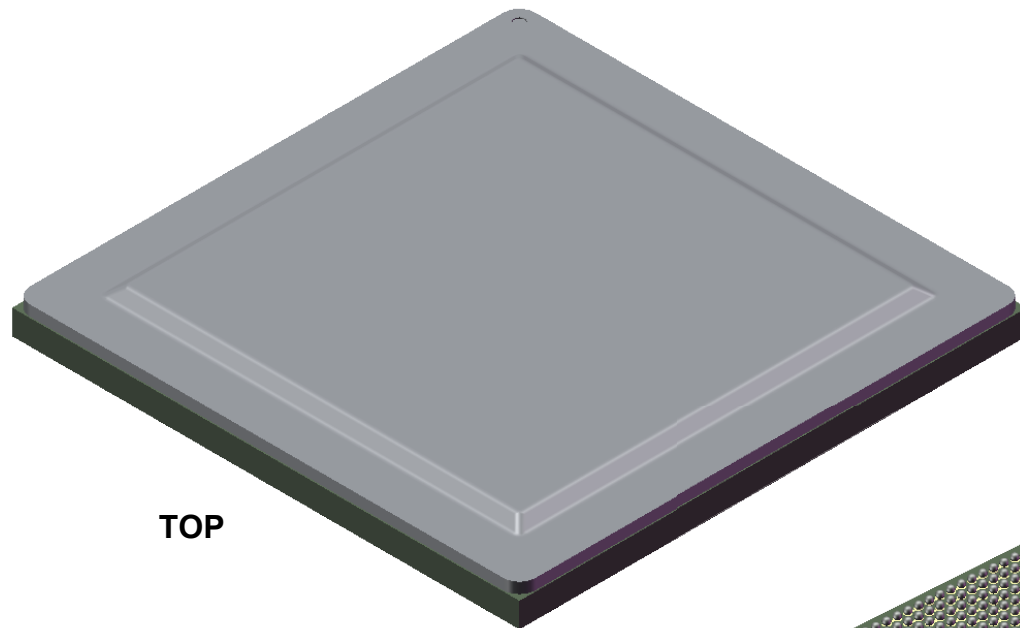
CAVITY



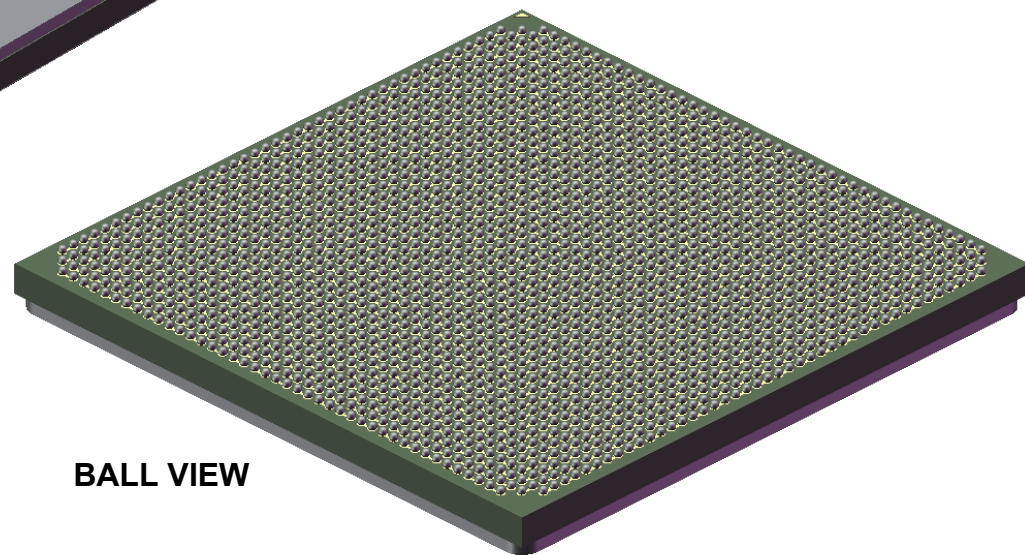
SECTION B-B

TopLine®			
TITLE SBGA2104T1.0C-DC467D DAISY CHAIN DUMMY			
SCALE 2:1	SIZE A	DRAWING NO. 514676	REV A
DO NOT SCALE DRAWING			SHEET 7 OF 9

MODEL



TOP



BALL VIEW

TopLine®

TITLE SBGA2104T1.0C-DC467D
DAISY CHAIN DUMMY

SCALE 2:1	SIZE A	DRAWING NO. 514676	REV A
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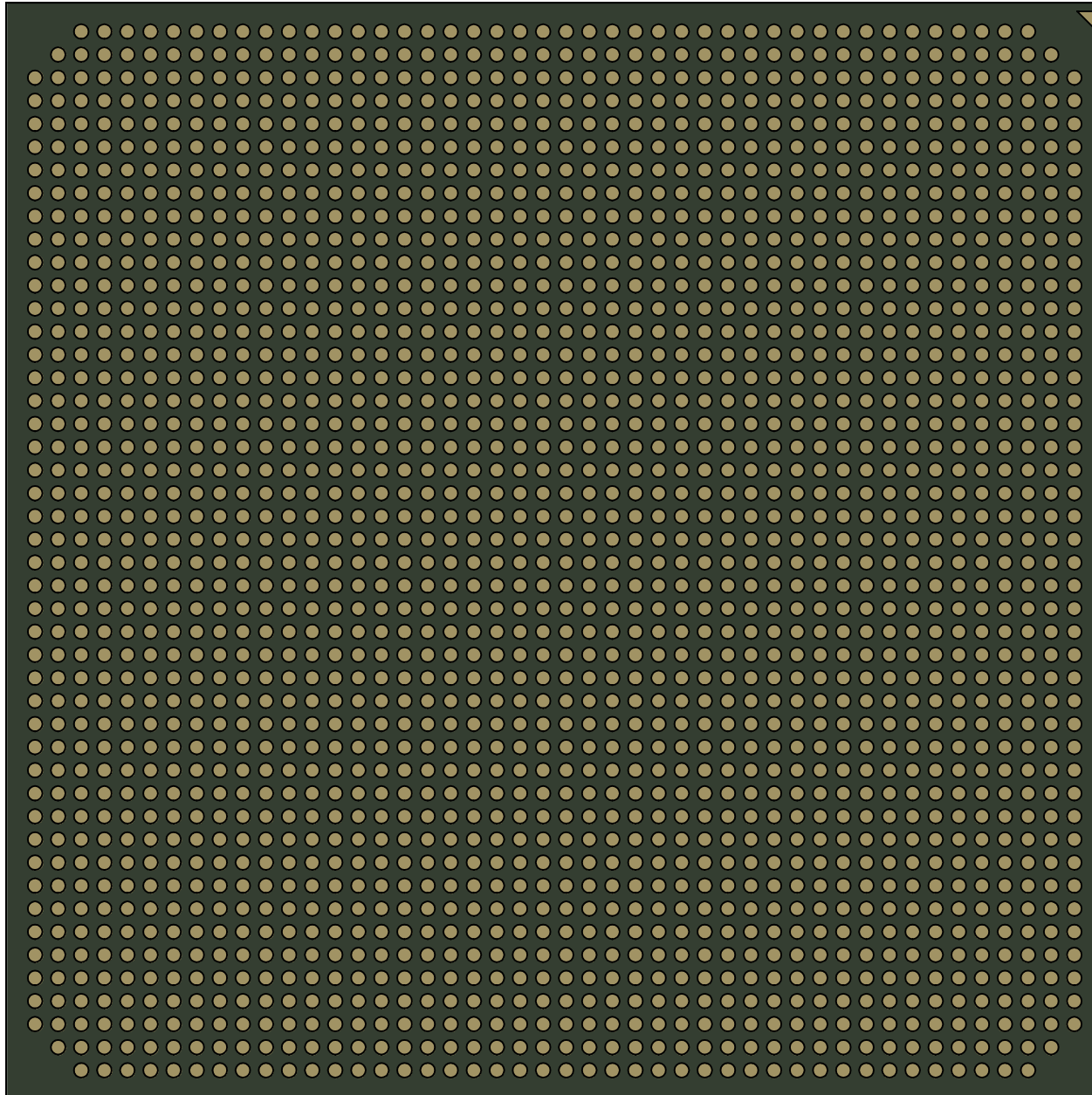
DO NOT SCALE DRAWING

SHEET 8 OF 9

BOTTOM SOLDER MASK (RIGHT READING)

46 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2
 45 43 41 39 37 35 33 31 29 27 25 23 21 19 17 15 13 11 9 7 5 3 1

A
 B C
 D E
 F G
 H J
 K L
 M N
 P R
 T U
 V W
 Y AA
 AB AC
 AD AE
 AF AG
 AH AJ
 AK AL
 AM AN
 AP AR
 AT AU
 AV AW
 AY BA
 BB BC
 BD BE
 BF



TopLine®			
TITLE SBGA2104T1.0C-DC467D DAISY CHAIN DUMMY			
SCALE 3.75:1	SIZE A	DRAWING NO. 514676	REV A
DO NOT SCALE DRAWING			SHEET 9 OF 9