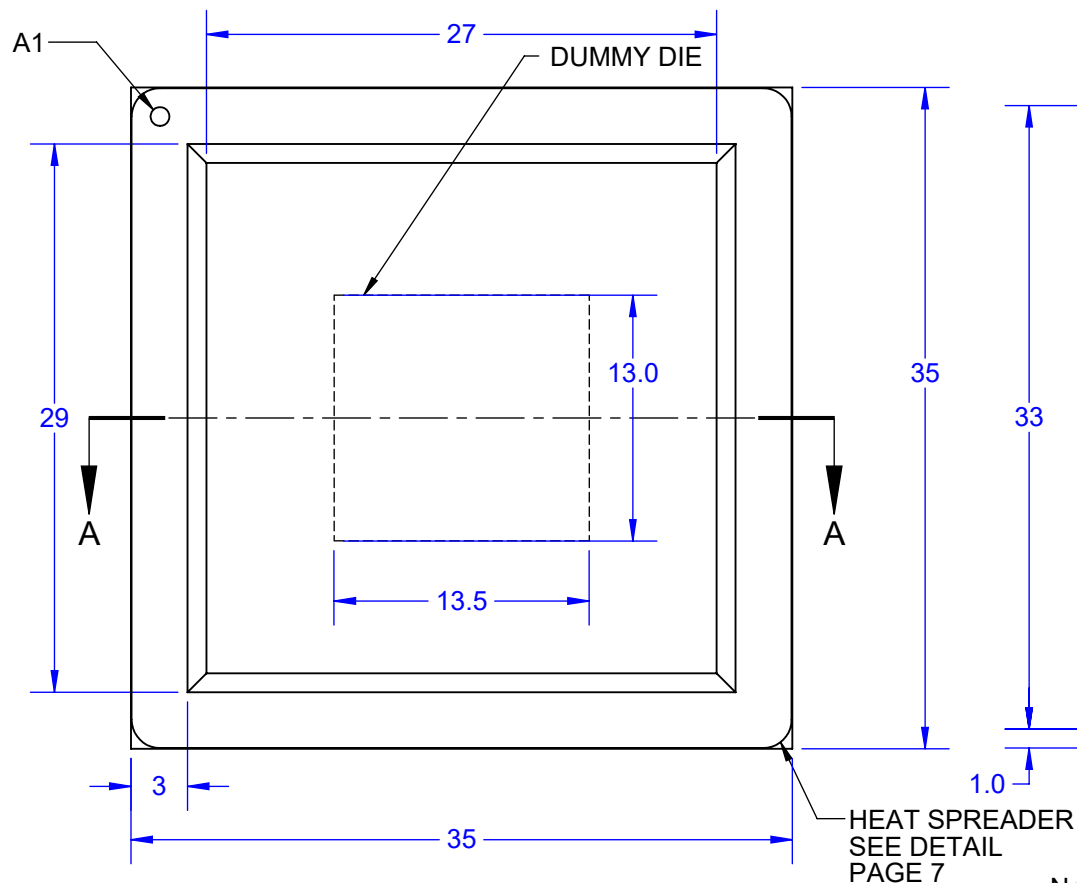
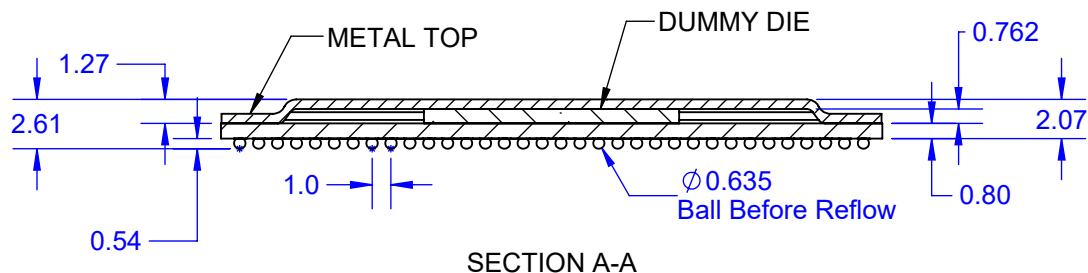
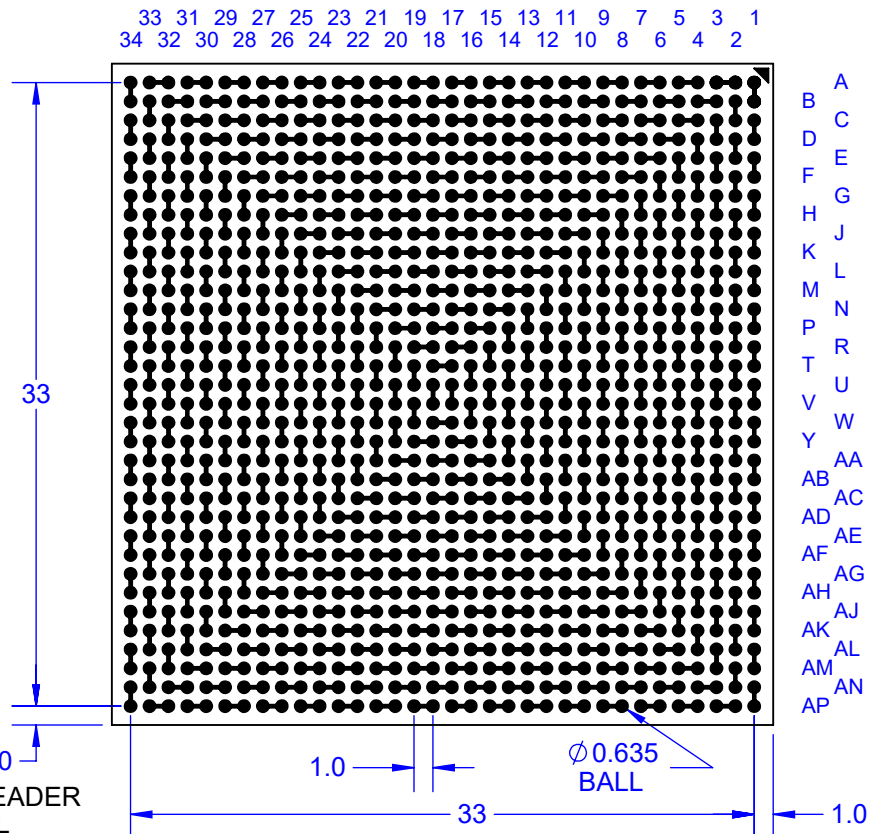


TOP VIEW



BALL VIEW



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 [20mil].
- 5) PAD Cu DIAMETER: 0.635mm [25 mil].
- 6) SUBSTRATE MATERIAL: FR4 (OPTIONAL BT).
- 7) DUMMY DIE: Si (SILICON).
- 8) DAISY CHAIN PATTERN (SEE PAGE 2).
- 9) MSL-3 RECOMMENDED BAKING 24 HOURS @ 125°C TO REMOVE MOISTURE PRIOR TO SOLDERING TO PC BOARD.

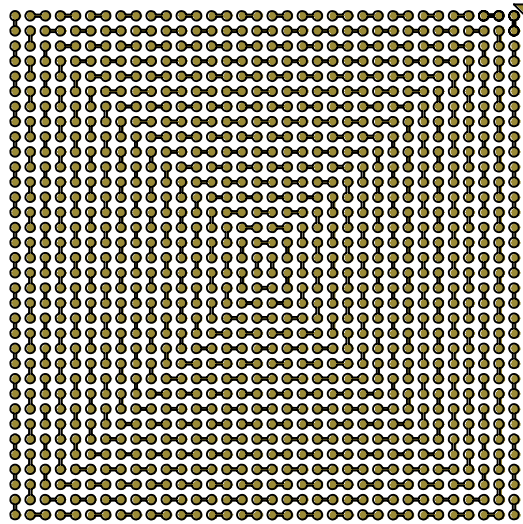
PART NUMBER TABLE

PART NUMBER	BALL METAL	BALL ALLOY	RoHS	Si DIE
SBGA1156T1.0C-DC349D	Sn96.5/Ag3.0/Cu0.5	SAC305	YES	YES
SBGA1156T1.0-DC349D	Sn63/Pb37	Sn63	NO	YES

APPROVALS	DATE	TopLine®			
DRAWN T. Au	8/18/2021				
ENG M. Hart	8/18/2021	TITLE SBGA1156T1.0-DC349D DAISY CHAIN DUMMY			
MFG		SCALE	SIZE	DRAWING NO.	REV
QA		2.5:1	A	513495	A
CUST		DO NOT SCALE DRAWING			SHEET 1 OF 9
REVISED					

BALL VIEW

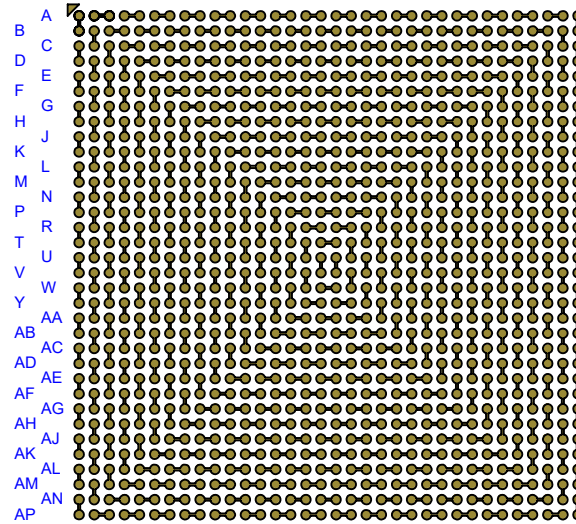
33 31 29 27 25 23 21 19 17 15 13 11 9 7 5 3 1
34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2



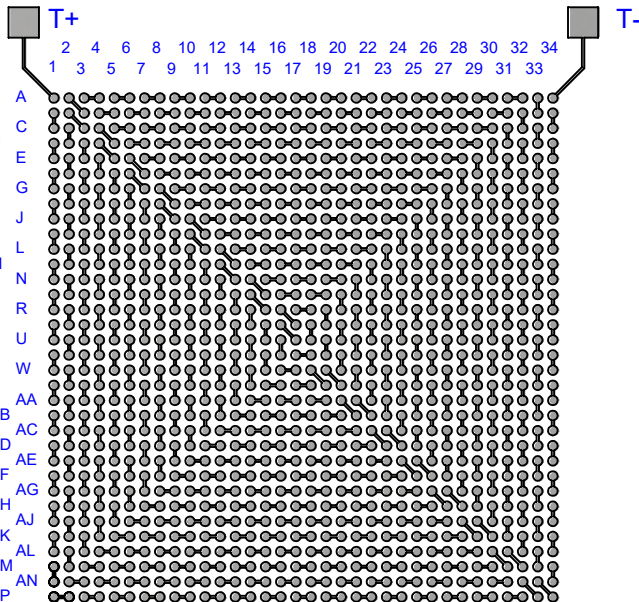
A
B C
D E
F G
H J
K L
M N
P R
T U
V W
Y AA
AB AC
AD AE
AF AG
AH AJ
AK AL
AM AN
AP

BOTTOM SIDE (TOP X-RAY VIEW)

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33

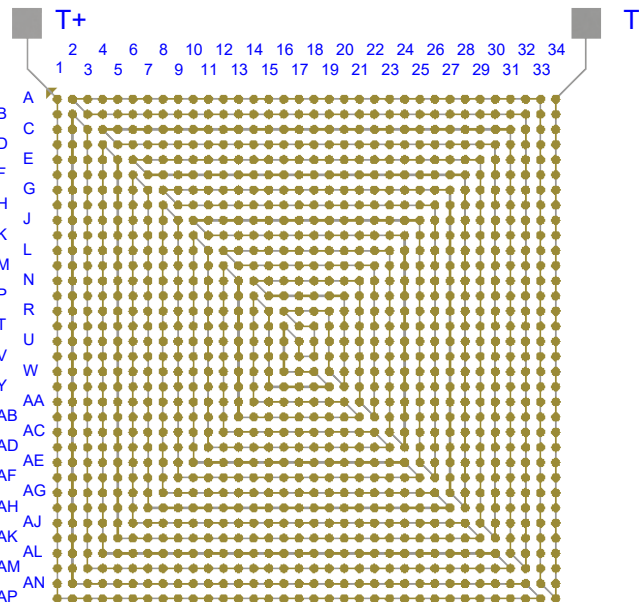


A
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K L
M N
P R
T U
V W
Y AA
AB AC
AD AE
AF AG
AH AJ
AK AL
AM AN
AP



A
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D E
F G
H J
K L
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V W
Y AA
AB AC
AD AE
AF AG
AH AJ
AK AL
AM AN
AP

TEST VEHICLE BOARD



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H J
K L
M N
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V W
Y AA
AB AC
AD AE
AF AG
AH AJ
AK AL
AM AN
AP

AFTER MOUNTING

Notes: (Unless Otherwise Specified).

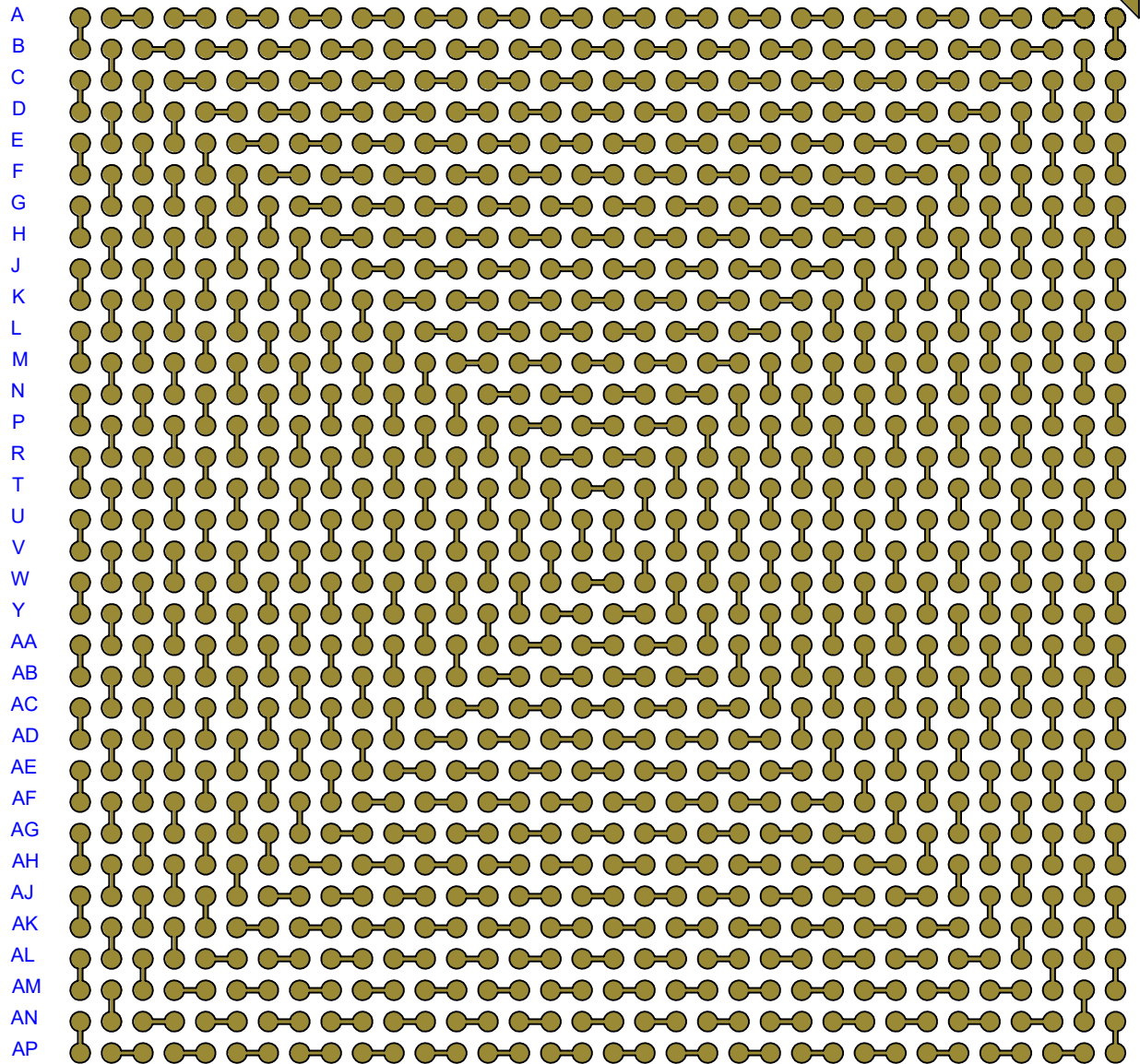
- 1) PCB BOARD DIMENSIONS ARE PRESENTED ONLY AS A GUIDELINE DESIGNERS SHOULD USE THEIR OWN KNOWLEDGE WHEN DESIGNING THE PCB.
- 2) PCB Cu BALL PAD DIAMETER: 0.450 [25 mil].
- 3) PCB DAISY CHAIN TRACING LINE WIDTH: 0.152 [6mil].
- 4) SMD (SOLDERMASK DEFINED) PAD OPENING: 0.508mm [20mil].

TopLine®

TITLE			
SBSGA1156T1.0-DC349D DAISY CHAIN DUMMY			
SCALE	SIZE	DRAWING NO.	REV
2:1	A	513495	A
DO NOT SCALE DRAWING			SHEET 2 OF 9

BALL VIEW

34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

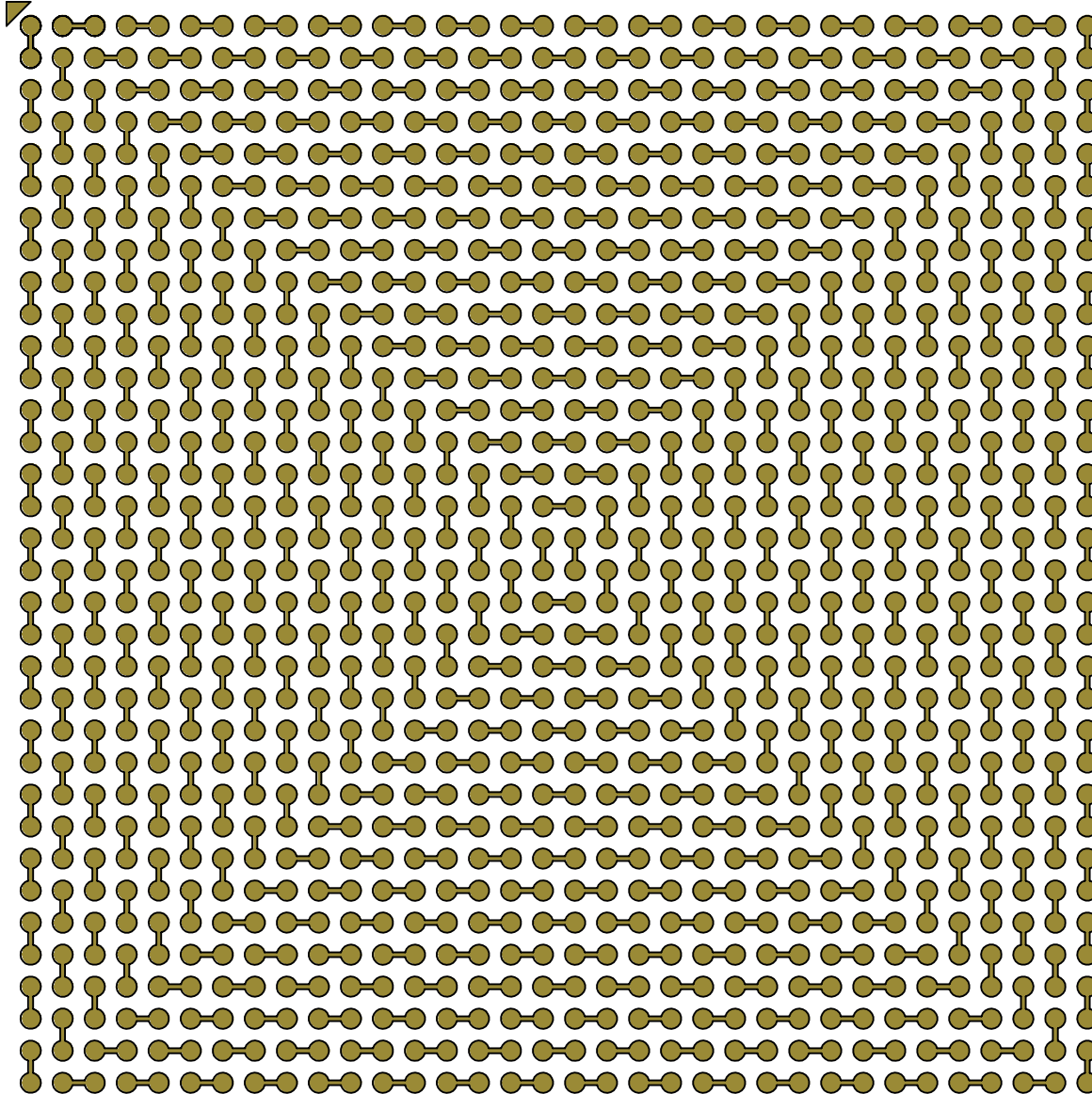


TopLine[®]			
TITLE		SBGA1156T1.0-DC349D DAISY CHAIN DUMMY	
SCALE	SIZE	DRAWING NO.	REV
4.5:1	A	513495	A
DO NOT SCALE DRAWING			SHEET 3 OF 9

BOTTOM SIDE (TOP X-RAY VIEW)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

A
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TopLine®

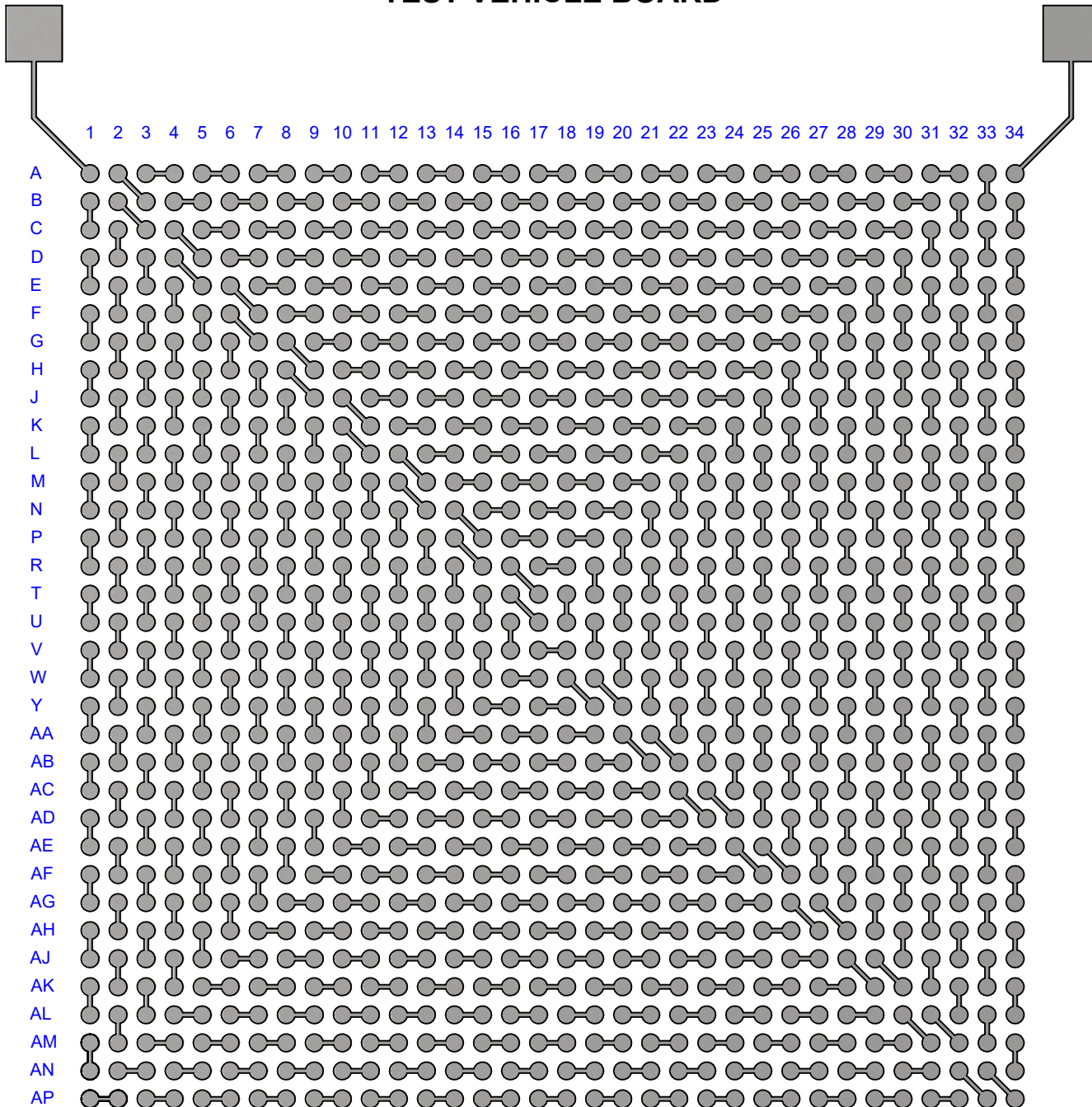
TITLE SBGA1156T1.0-DC349D
DAISY CHAIN DUMMY

SCALE 4.5:1	SIZE A	DRAWING NO. 513495	REV A
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DO NOT SCALE DRAWING

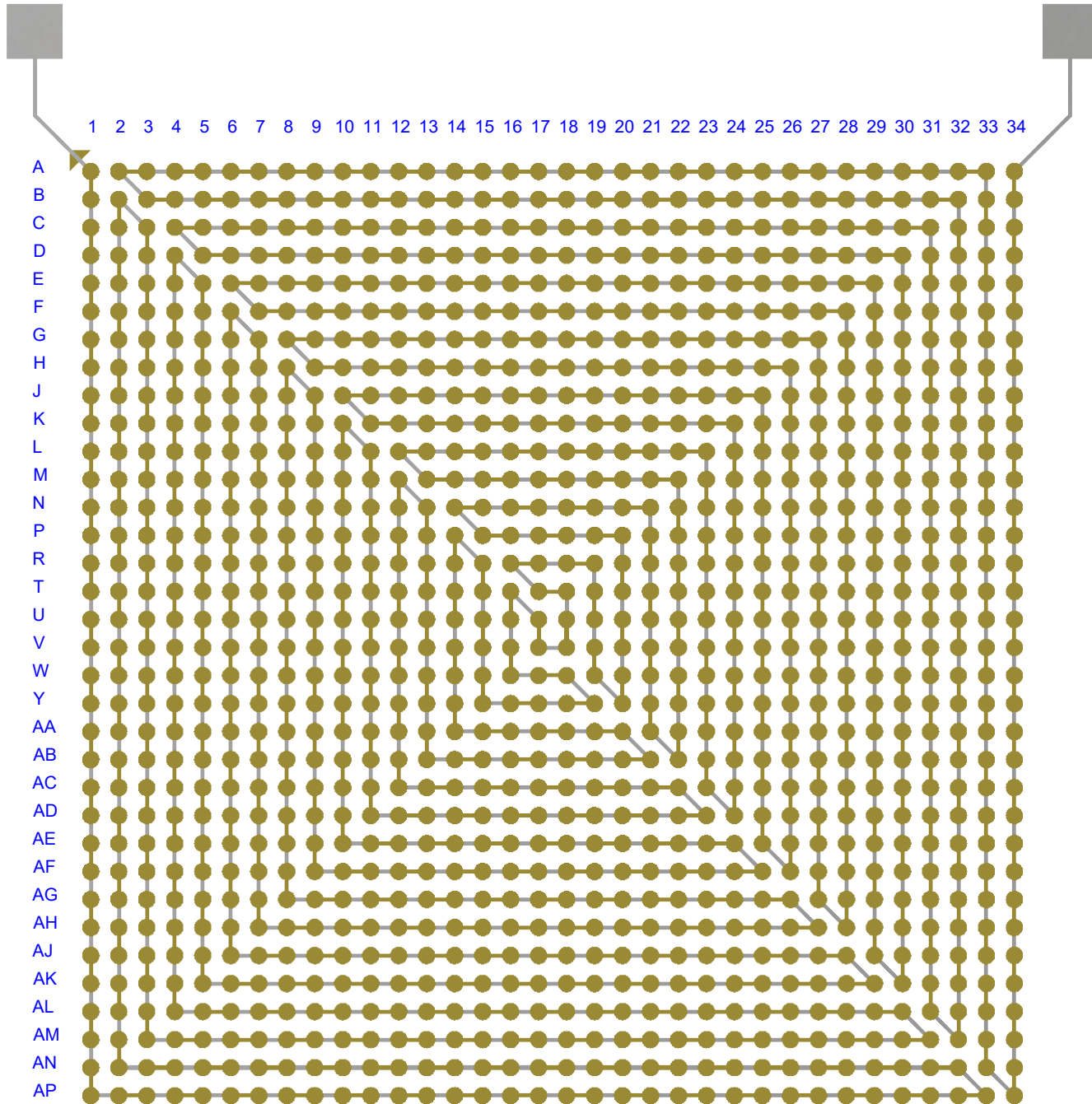
SHEET 4 OF 9

TEST VEHICLE BOARD



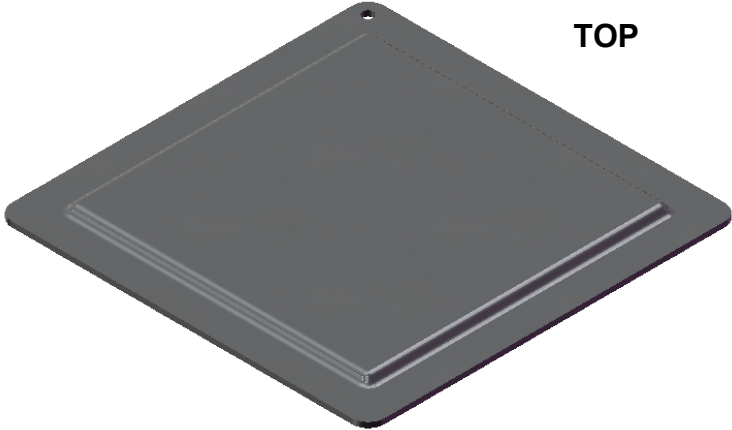
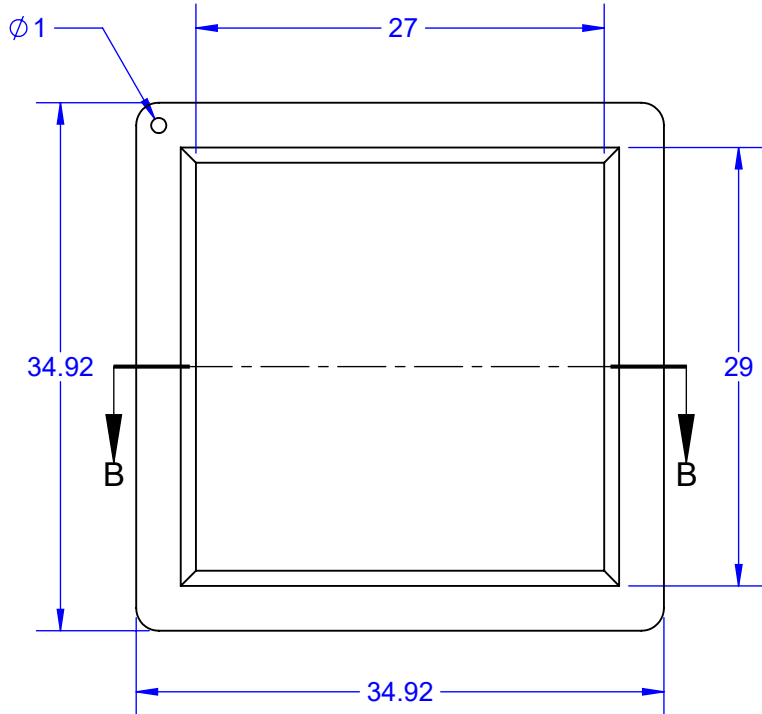
TopLine[®]			
TITLE		SGBA1156T1.0-DC349D DAISY CHAIN DUMMY	
SCALE	SIZE	DRAWING NO.	REV
4.5:1	A	513495	A
DO NOT SCALE DRAWING			SHEET 5 OF 9

AFTER MOUNTING TO TEST BOARD



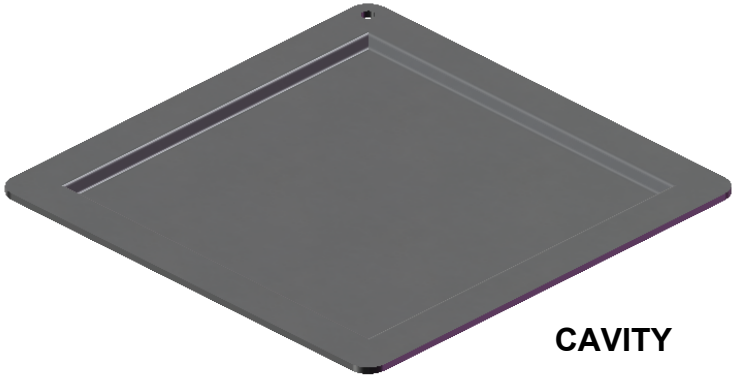
TopLine®			
TITLE SBGA1156T1.0-DC349D DAISY CHAIN DUMMY			
SCALE	SIZE	DRAWING NO.	REV
4.5:1	A	513495	A
DO NOT SCALE DRAWING			SHEET 6 OF 9

HEAT SPREADER

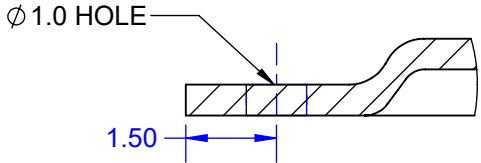


TOP

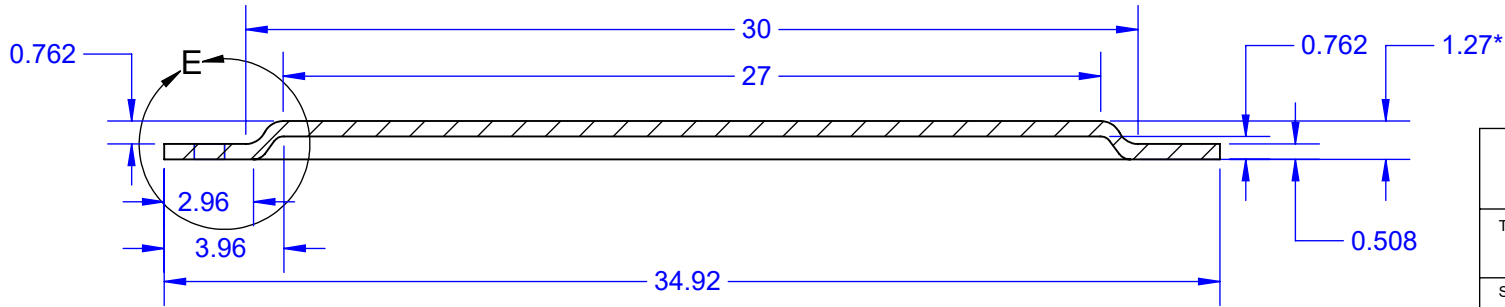
MODEL



CAVITY



DETAIL E
SCALE 8 : 1

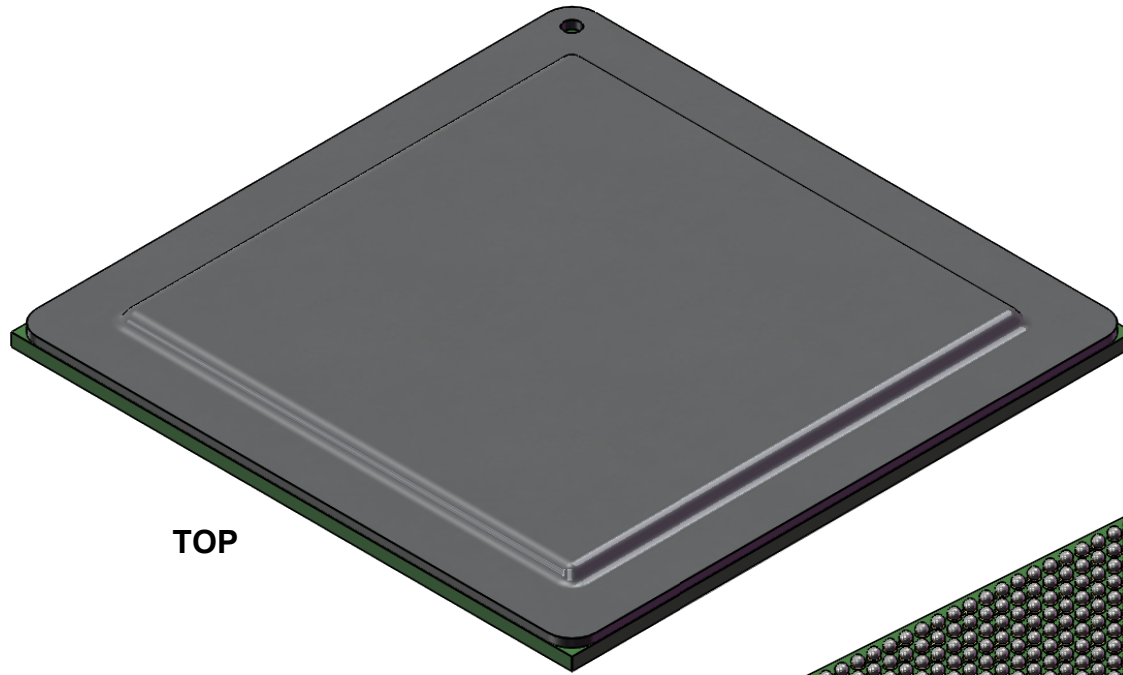


SECTION B-B
SCALE 4 : 1

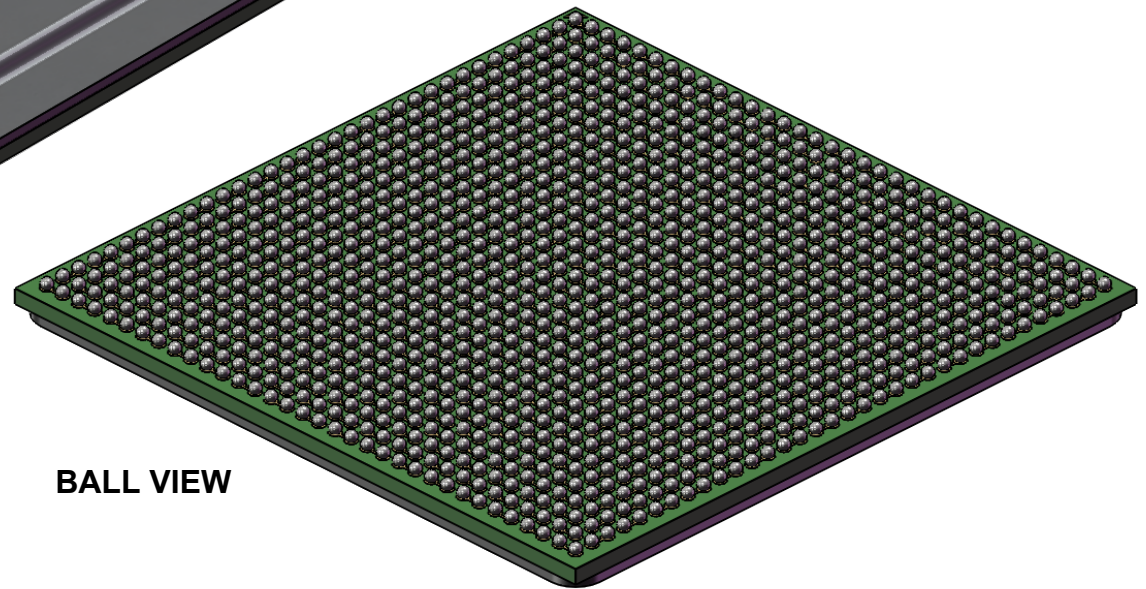
* ADD 0.13MM SEALANT

TopLine®			
TITLE SBGA1156T1.0-DC349D DAISY CHAIN DUMMY			
SCALE 2:1	SIZE A	DRAWING NO. 513495	REV A
DO NOT SCALE DRAWING			SHEET 7 OF 9

MODEL



TOP



BALL VIEW

TopLine[®]

TITLE SGA1156T1.0-DC349D
DAISY CHAIN DUMMY

SCALE 2.5:1	SIZE A	DRAWING NO. 513495	REV A
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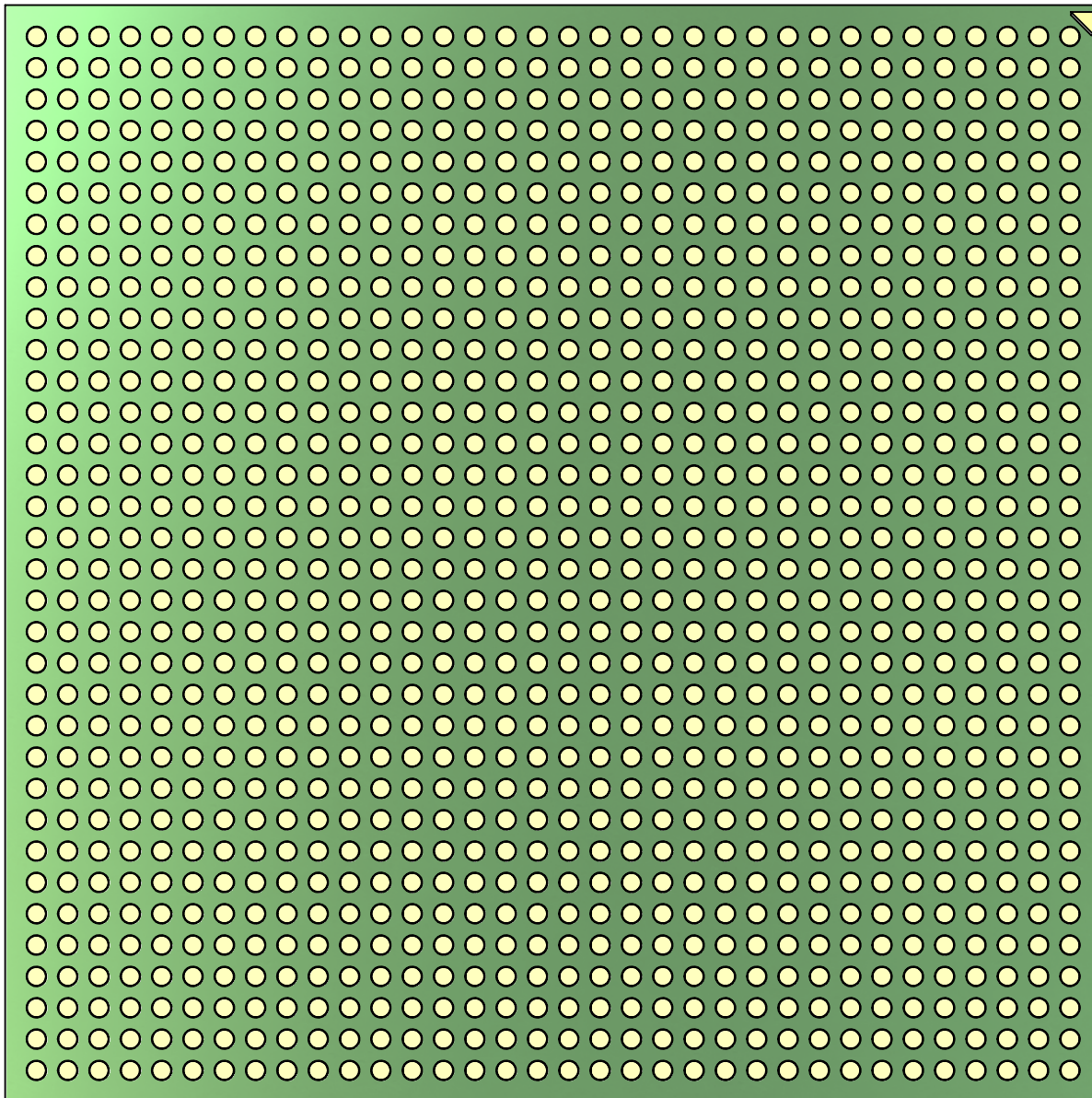
DO NOT SCALE DRAWING

SHEET 8 OF 9

BOTTOM SOLDER MASK (RIGHT READING)

34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

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TopLine®			
TITLE		SBGA1156T1.0-DC349D DAISY CHAIN DUMMY	
SCALE	SIZE	DRAWING NO.	REV
4.5:1	A	513495	A
DO NOT SCALE DRAWING			SHEET 9 OF 9