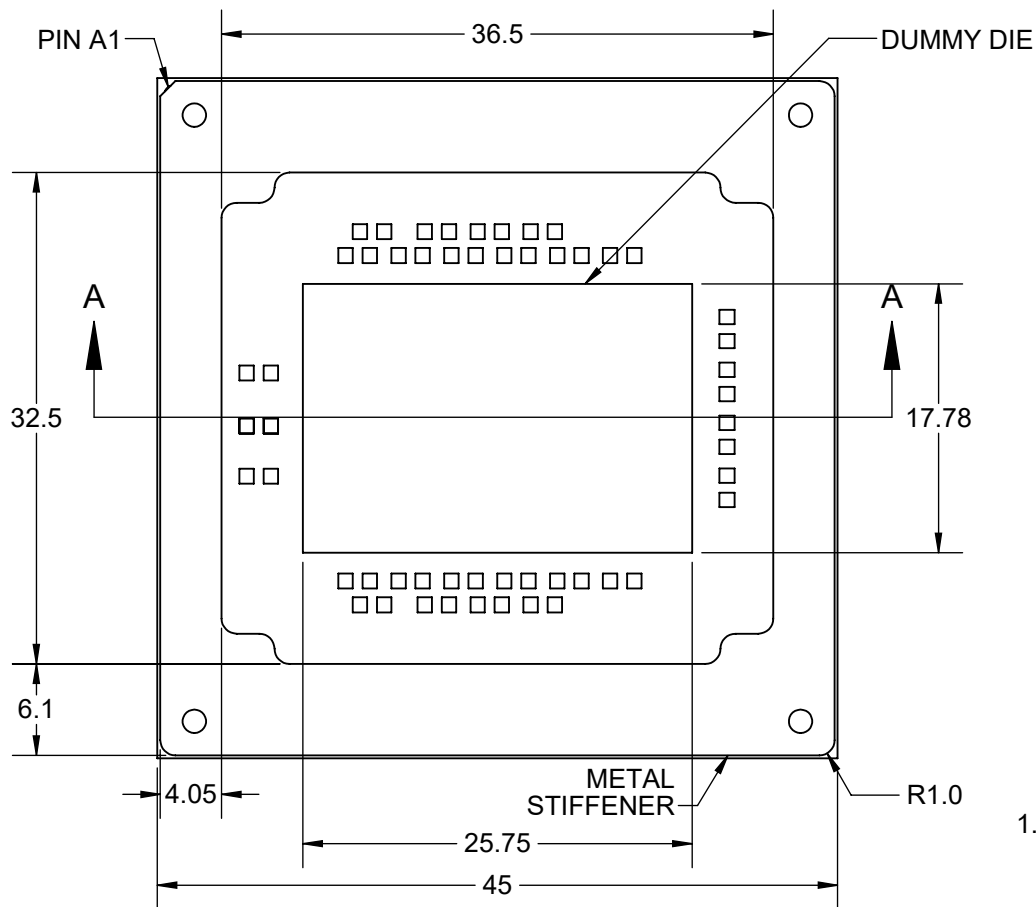
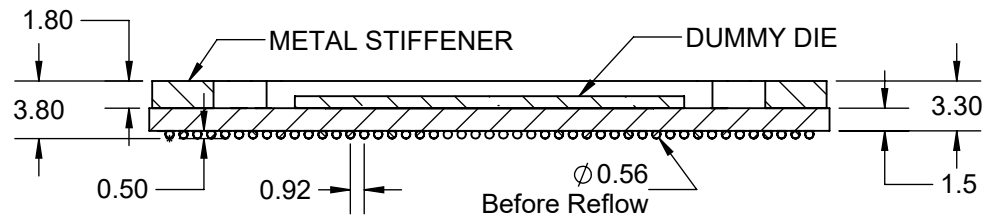
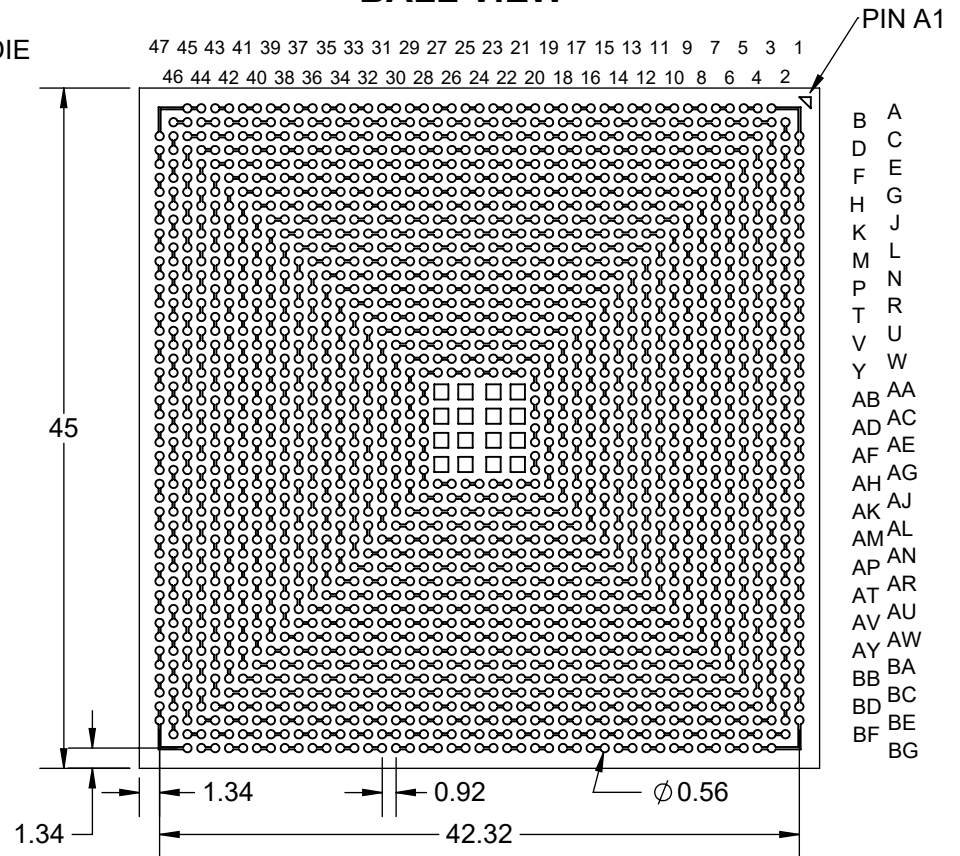


### TOP VIEW



### BALL VIEW



SECTION A-A

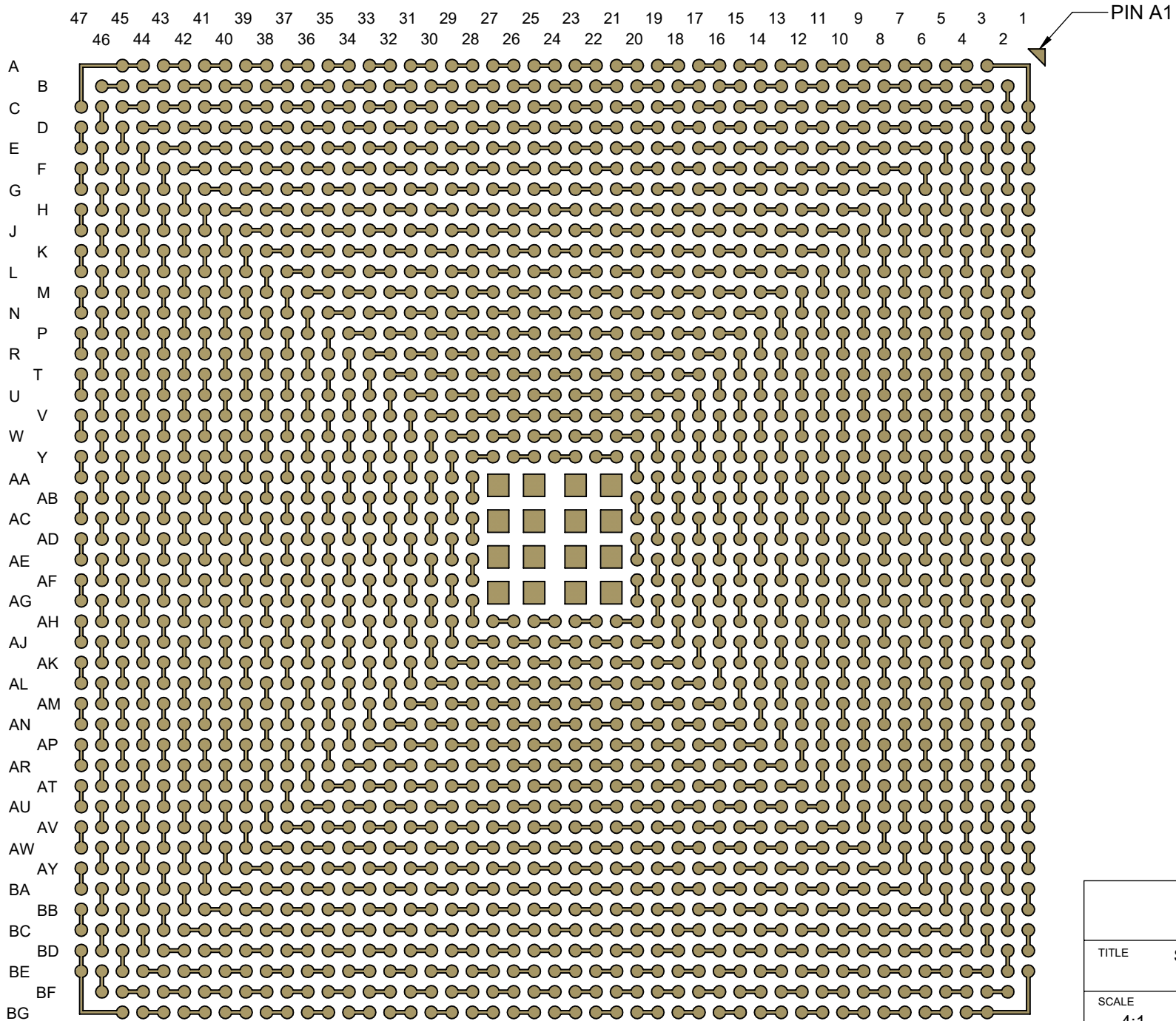
Notes: (Unless Otherwise Specified).

- 1) ALL DIMENSIONS ARE IN MM.
- 2) SOLDER BALL ALLOY: SEE PART NUMBER TABLE.
- 3) BALL DIAMETER (BEFORE REFLOW): 0.56mm (22 MIL).
- 4) SOLDER MASK DEFINED PAD OPENING: 0.45mm (17.7 MIL).
- 5) PAD Cu DIAMETER: 0.56mm (22 MIL).
- 6) SUBSTRATE MATERIAL: BT (ALTERNATIVE AVAILABLE).
- 7) DUMMY DIE Si (SILICON) 17.78 x 25.75 x 0.797mm MAX.
- 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
SBGA2184T.92C-DC477D	Sn96.5/Ag3.0/Cu0.5	SAC305	YES	YES
SBGA2148T.92-DC477D	Sn63/Pb37	Sn63	NO	YES

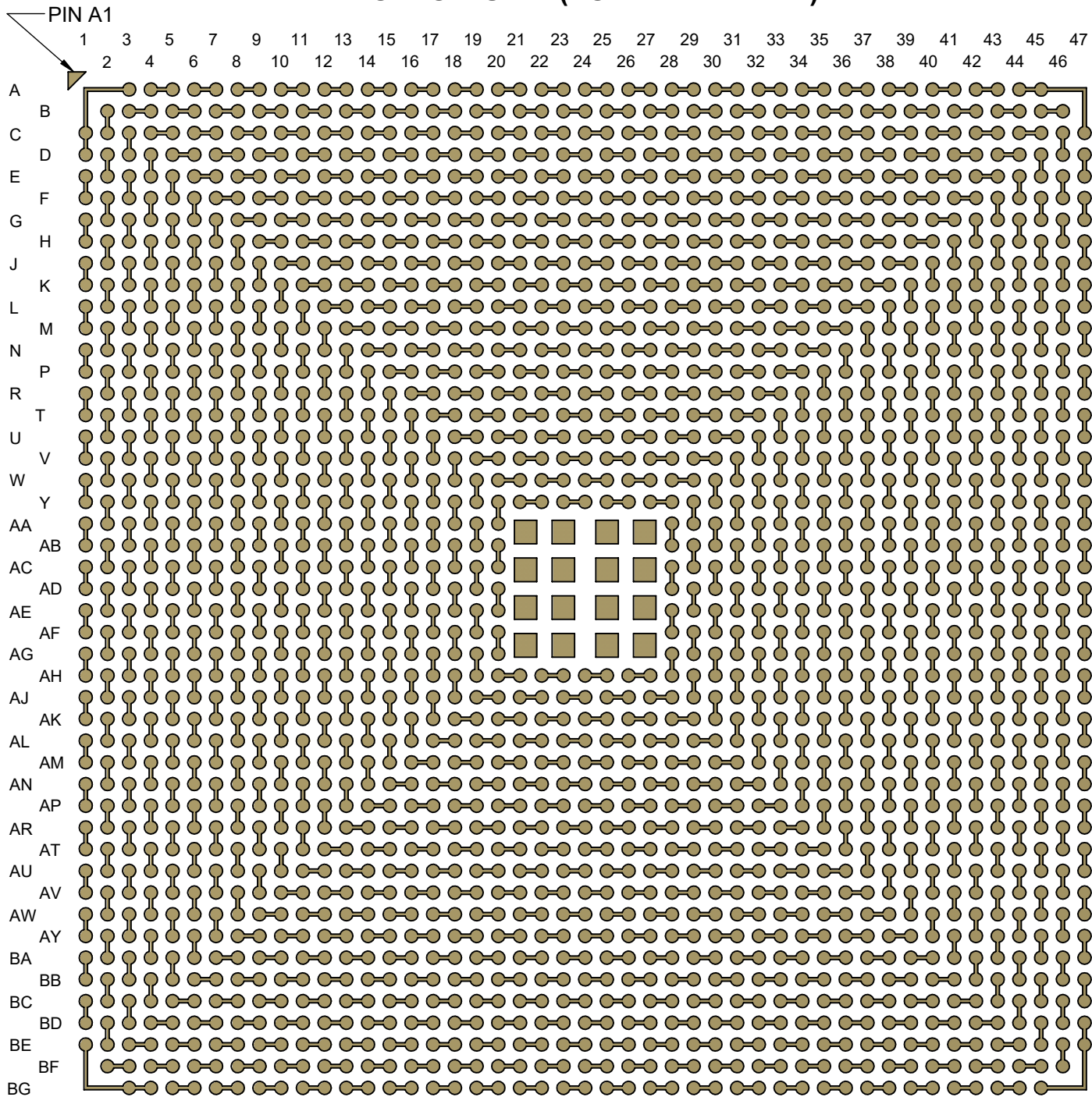
APPROVALS	DATE	<b>TopLine</b> <sup>®</sup>			
DRAWN T. Au	8/9/2021				
ENG M. Hart	8/9/2021	TITLE SBGA2148T.92C-DC477D DAISY CHAIN DUMMY			
MFG		SCALE 2:1		SIZE A	DRAWING NO. 594771
QA				REV A	
CUST					
REVISED		DO NOT SCALE DRAWING			SHEET 1 OF 6

# BALL VIEW



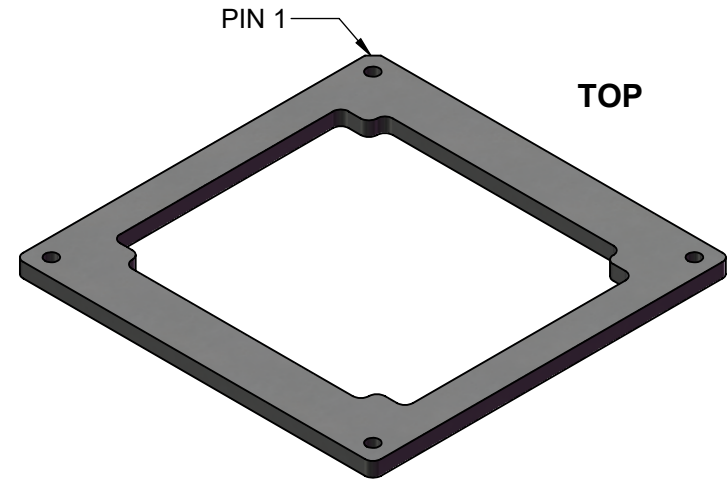
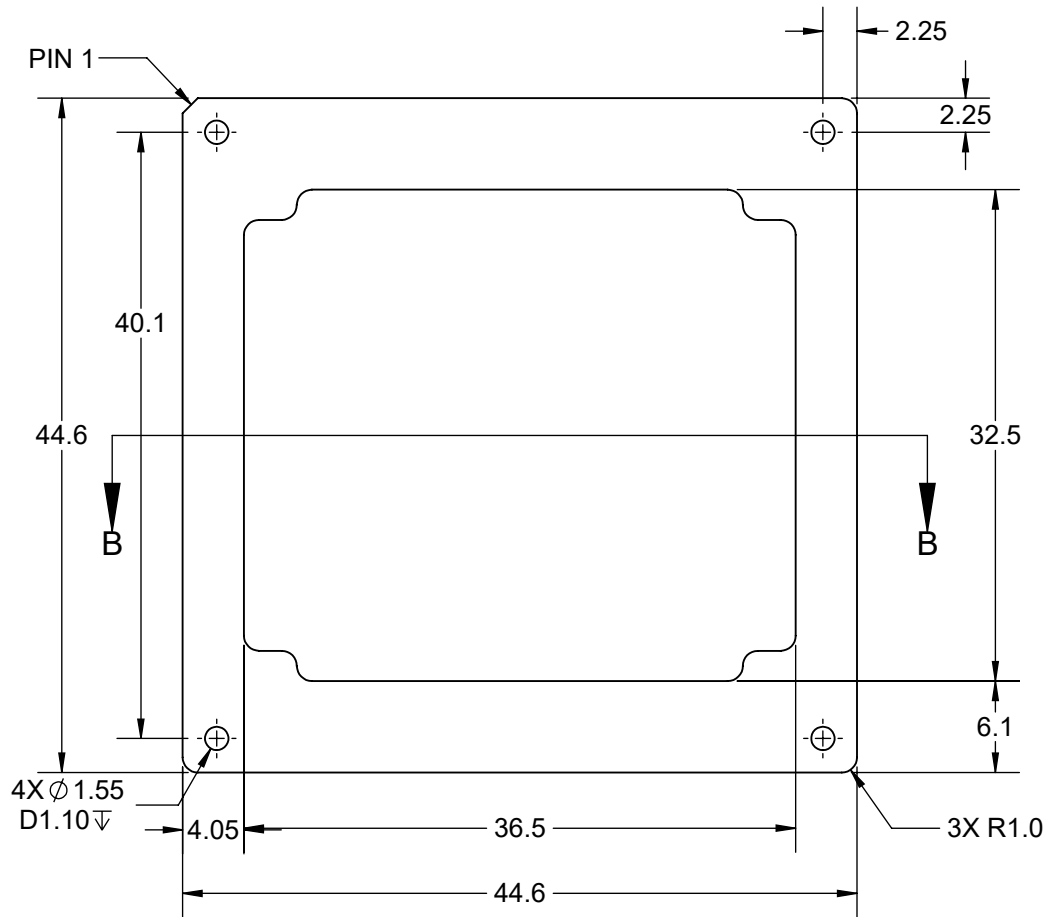
<b>TopLine®</b>			
TITLE SBGA2148T.92C-DC477D DAISY CHAIN DUMMY			
SCALE 4:1	SIZE A	DRAWING NO. 594771	REV A
DO NOT SCALE DRAWING		SHEET 2 OF 6	

# BOTTOM SIDE (TOP X-RAY VIEW)



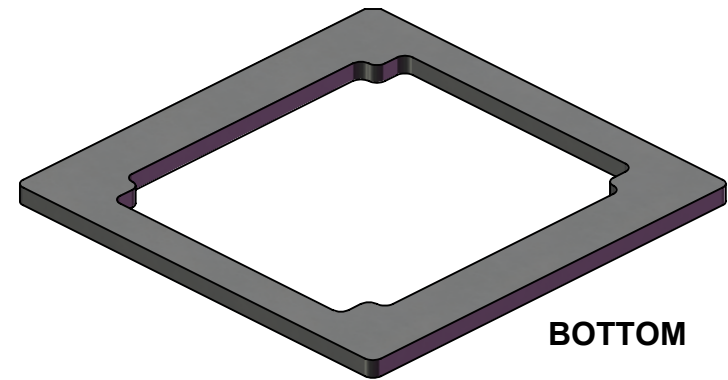
<b>TopLine®</b>			
TITLE		SBGA2148T.92C-DC477D DAISY CHAIN DUMMY	
SCALE	SIZE	DRAWING NO.	REV
4:1	A	594771	A
DO NOT SCALE DRAWING			SHEET 3 OF 6

# METAL STIFFENER

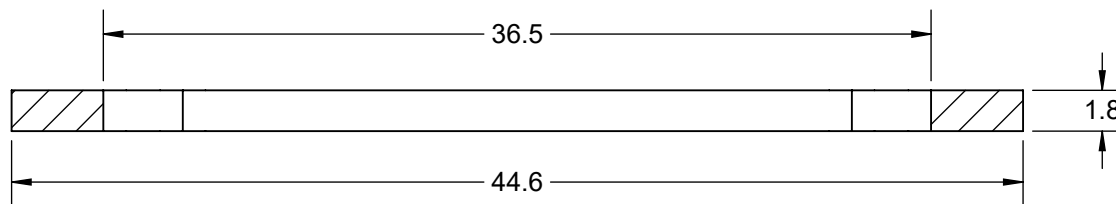


TOP

MODEL



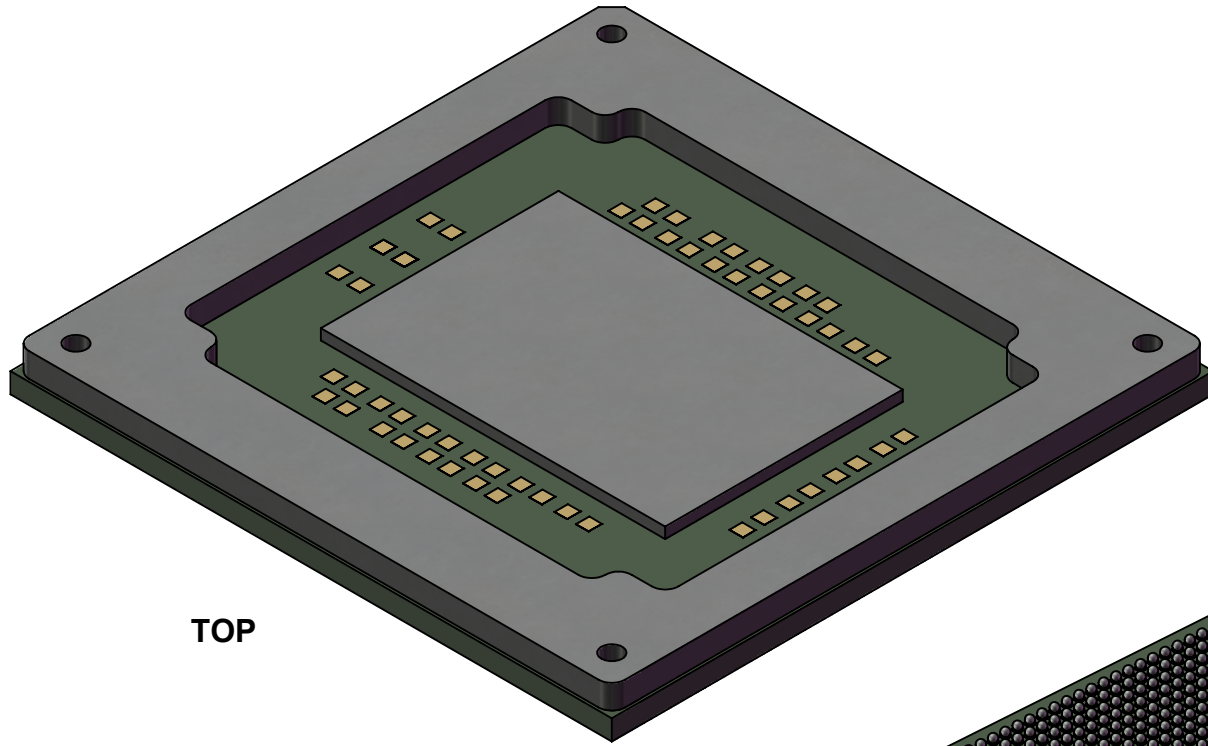
BOTTOM



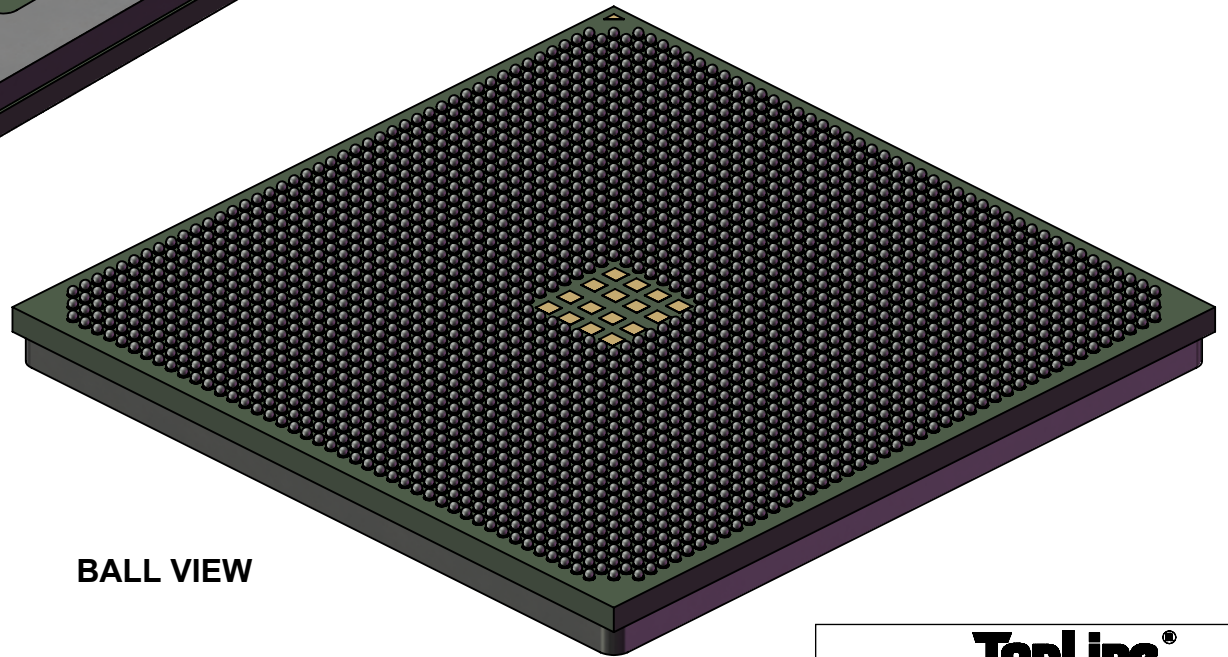
SECTION B-B  
SCALE 3 : 1

<b>TopLine®</b>			
TITLE SBGA2148T.92C-DC477D DAISY CHAIN DUMMY			
SCALE 2:1	SIZE A	DRAWING NO. 594771	REV A
DO NOT SCALE DRAWING			SHEET 4 OF 6

# MODEL



TOP



BALL VIEW

**TopLine**<sup>®</sup>

TITLE SBGA2148T.92C-DC477D  
DAISY CHAIN DUMMY

SCALE 2.5:1	SIZE A	DRAWING NO. 594771	REV A
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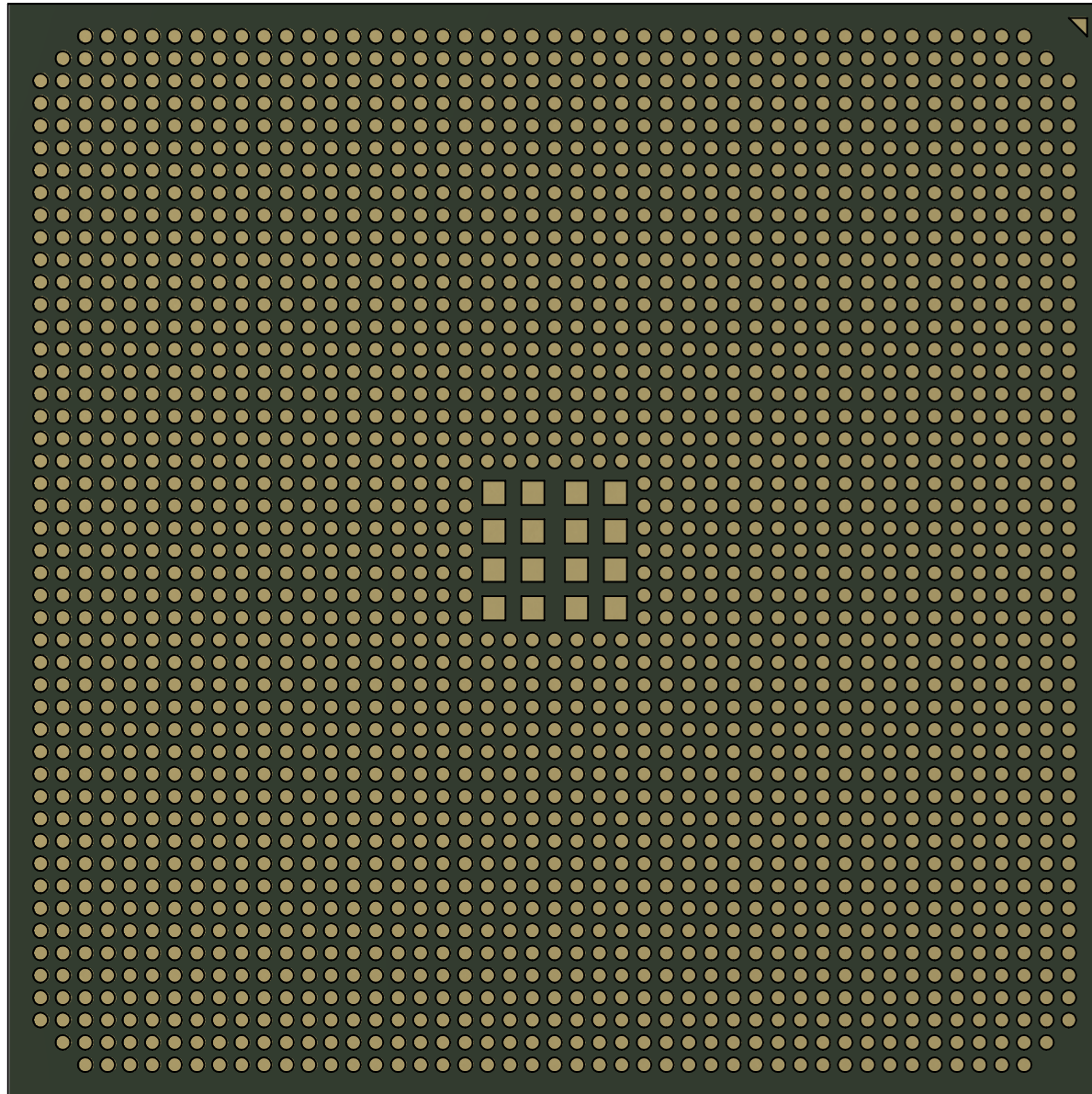
DO NOT SCALE DRAWING

SHEET 5 OF 6

# BOTTOM SOLDER MASK (RIGHT READING)

47 45 43 41 39 37 35 33 31 29 27 25 23 21 19 17 15 13 11 9 7 5 3 1  
46 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2

A  
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BB  
BC  
BD  
BE  
BF  
BG



<b>TopLine®</b>			
TITLE		SBGA2148T.92C-DC477D DAISY CHAIN DUMMY	
SCALE	SIZE	DRAWING NO.	REV
3.5:1	A	594771	A
DO NOT SCALE DRAWING			SHEET 6 OF 6