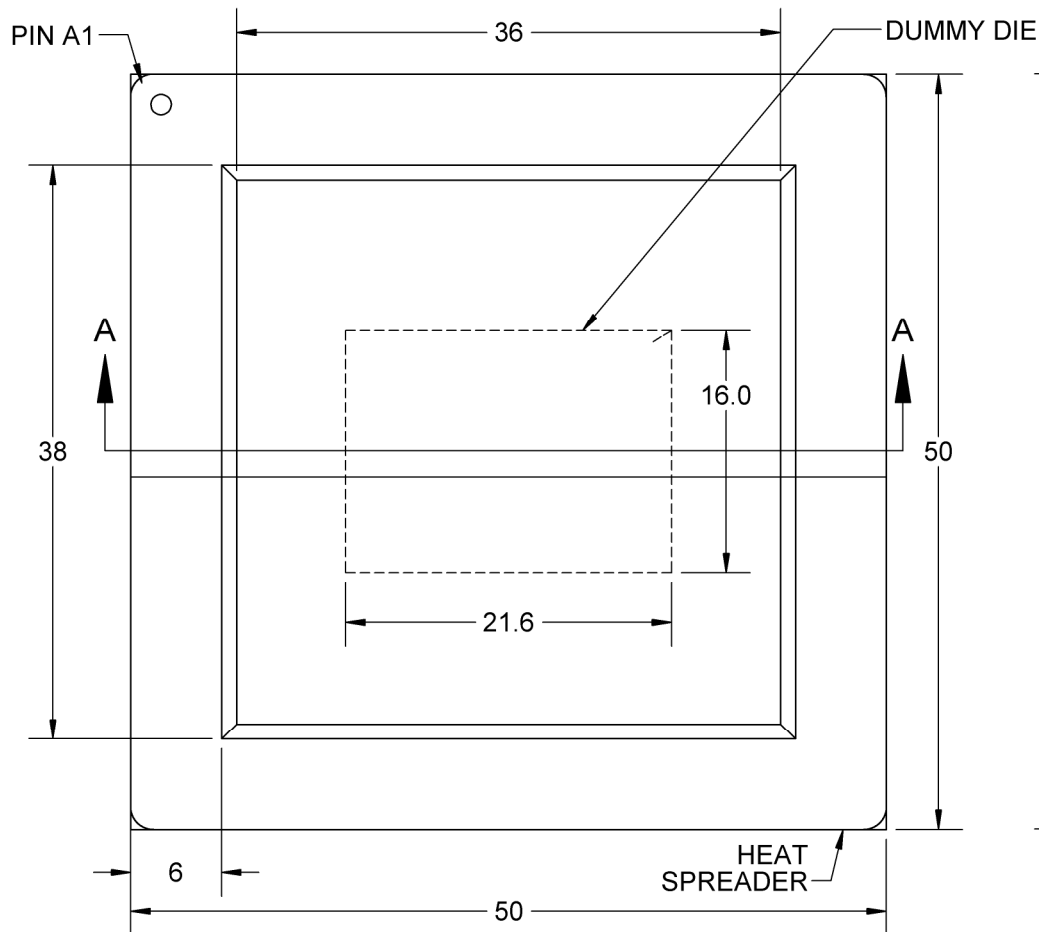
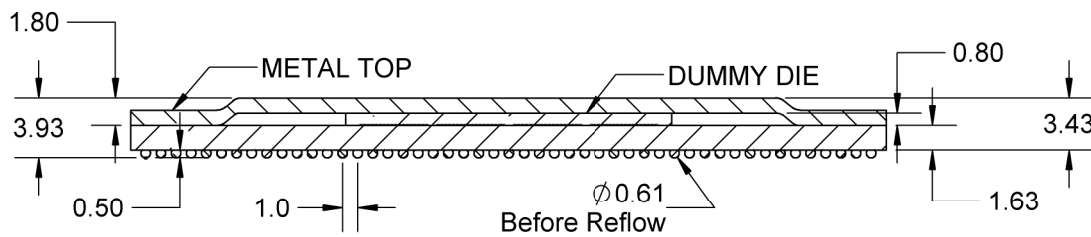
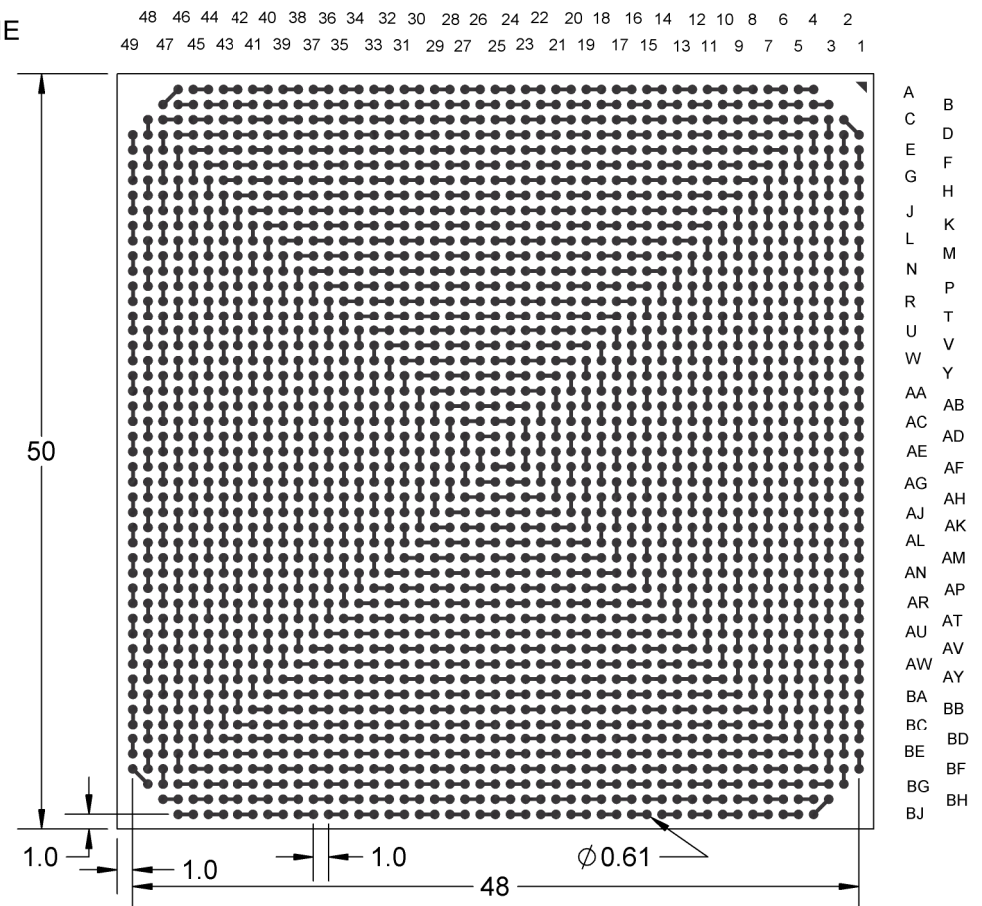


### TOP VIEW



### BOTTOM VIEW



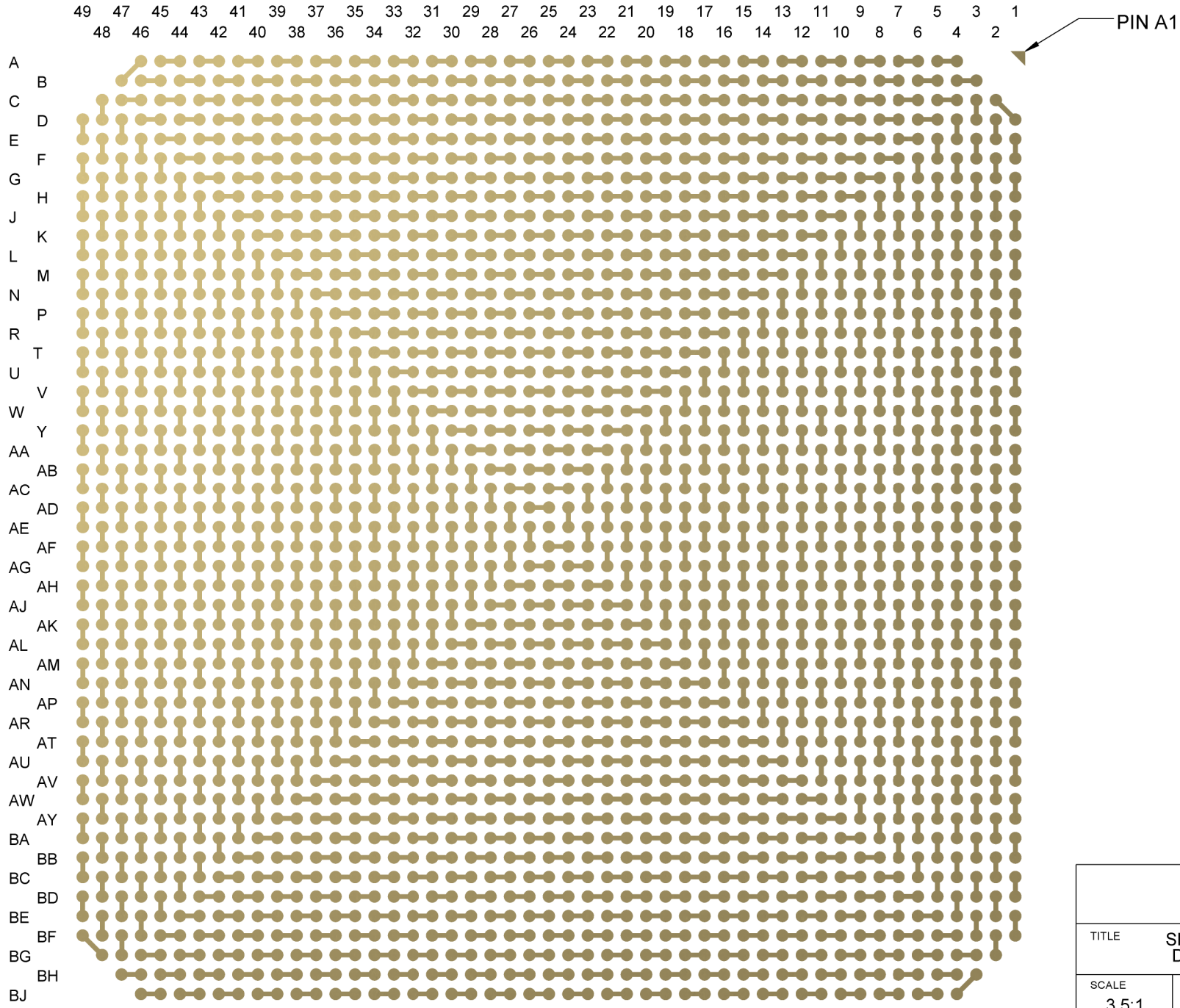
SECTION A-A

- Notes: (Unless Otherwise Specified).
- 1) ALL DIMENSIONS ARE IN MM.
  - 2) SOLDER BALL ALLOY: SEE PART NUMBER TABLE.
  - 3) BALL DIAMETER (BEFORE REFLOW): 0.61mm (24 MIL).
  - 4) SOLDER MASK DEFINED PAD OPENING: 0.50mm (19.7 MIL).
  - 5) PAD Cu DIAMETER: 0.55mm (21.7 MIL).
  - 6) SUBSTRATE MATERIAL: ORGANIC.
  - 7) DUMMY DIE Si (SILICON) 21.6 x 16 x .787mm.
  - 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
SBGA2377T1.0C-DC497D	Sn96.5/Ag3.0/Cu0.5	SAC305	YES	YES
SBGA2377T1.0-DC497D	Sn63/Pb37	Sn63	NO	YES

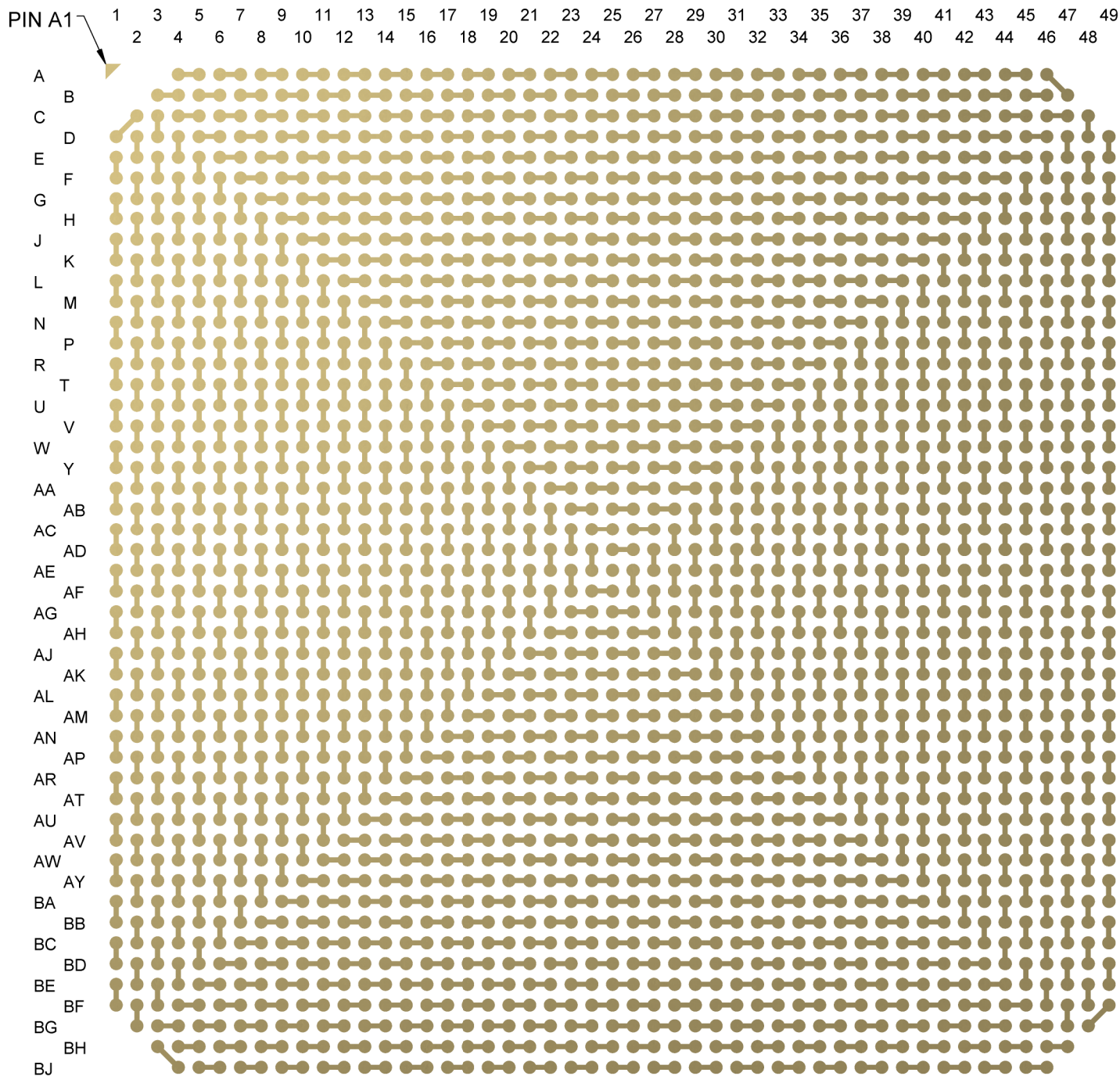
APPROVALS	DATE	<b>TopLine®</b>			
DRAWN T. Au	5/7/2018				
ENG M. Hart	5/7/2018	TITLE		SBGA2377T1.0-DC497D DAISY CHAIN DUMMY	
MFG		SCALE	SIZE	DRAWING NO.	REV
QA		2:1	A	514975	B
CUST		DO NOT SCALE DRAWING			SHEET 1 OF 6
REVISED					

# BALL VIEW



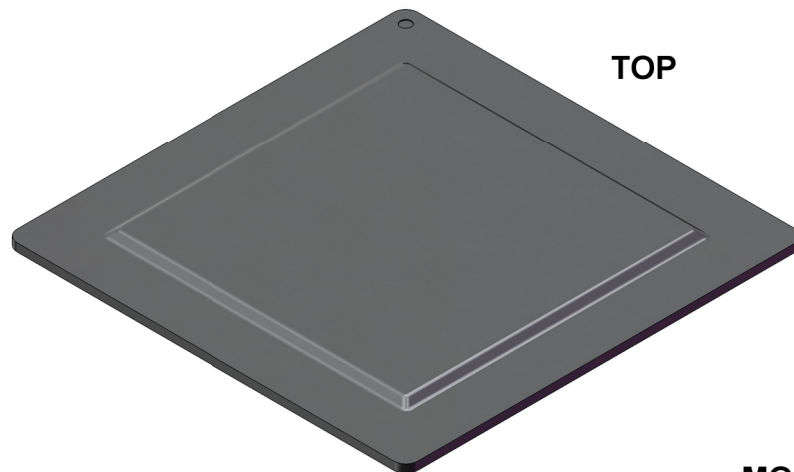
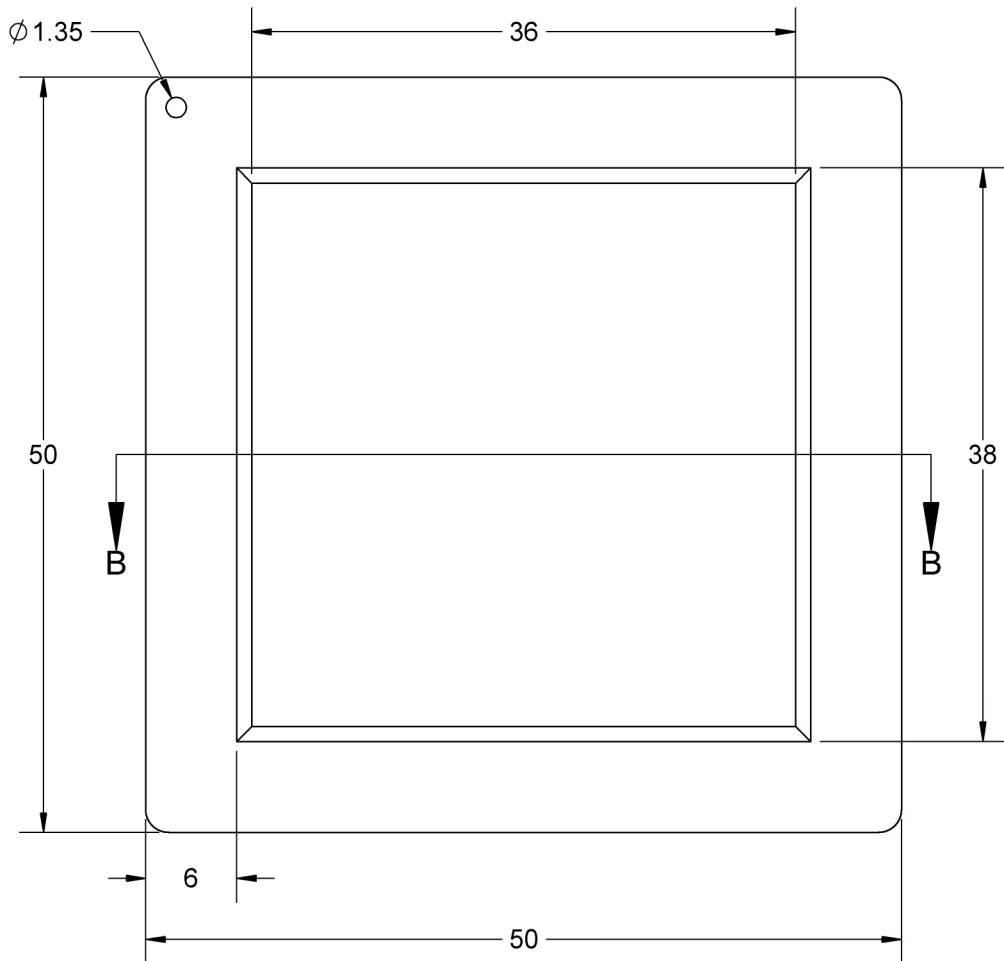
<b>TopLine</b> <sup>®</sup>			
TITLE		SBGA2377T1.0-DC497D DAISY CHAIN DUMMY	
SCALE	SIZE	DRAWING NO.	REV
3.5:1	A	514975	B
DO NOT SCALE DRAWING			SHEET 2 OF 6

# BOTTOM SIDE (TOP X-RAY VIEW)



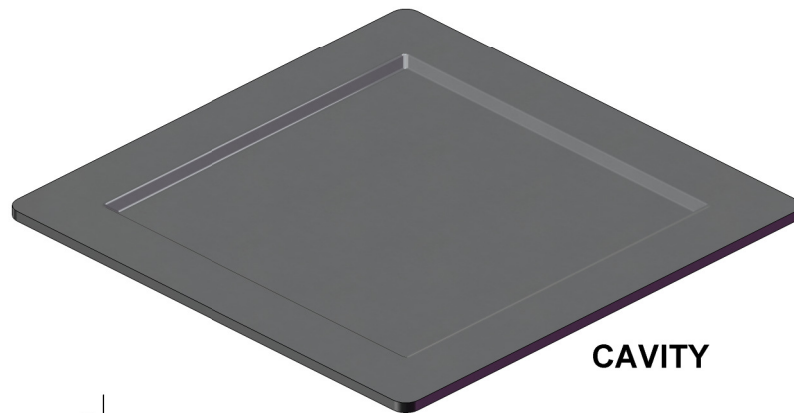
<b>TopLine®</b>			
TITLE		SBGA2377T1.0-DC497D DAISY CHAIN DUMMY	
SCALE	SIZE	DRAWING NO.	REV
3.5:1	A	514975	B
DO NOT SCALE DRAWING			SHEET 3 OF 6

# HEAT SPREADER

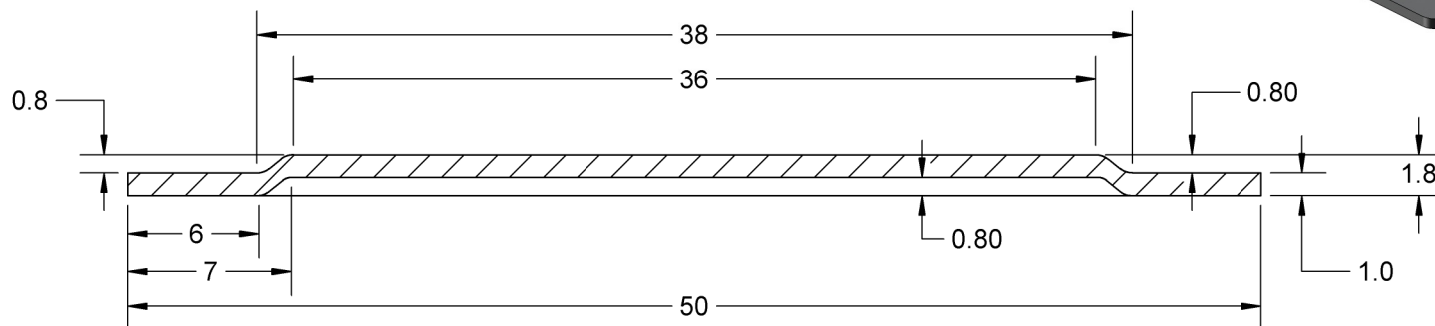


TOP

MODEL



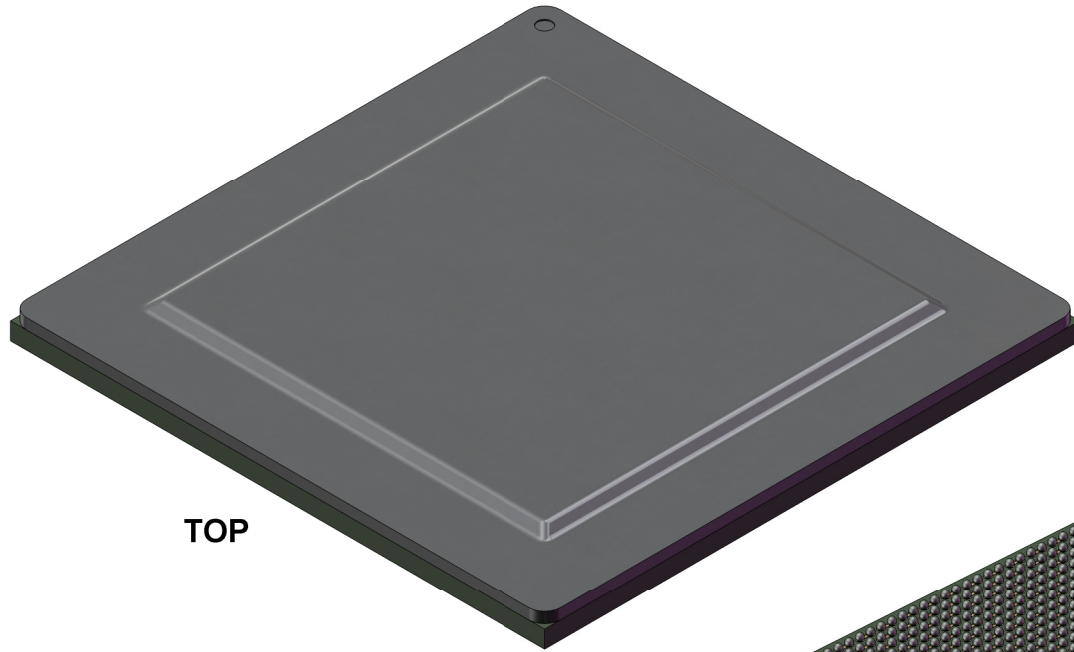
CAVITY



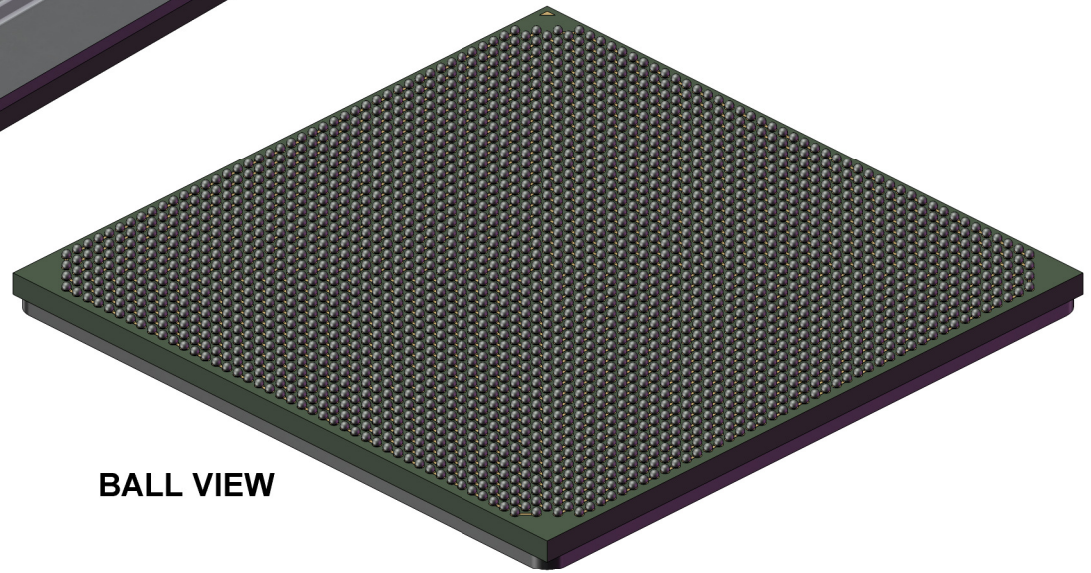
SECTION B-B  
SCALE 3 : 1

<b>TopLine®</b>			
TITLE SBGA2377T1.0-DC497D DAISY CHAIN DUMMY			
SCALE 2:1	SIZE A	DRAWING NO. 514975	REV B
DO NOT SCALE DRAWING			SHEET 4 OF 6

# MODEL



TOP



BALL VIEW

**TopLine**<sup>®</sup>

TITLE SBGA2377T1.0-DC497D  
DAISY CHAIN DUMMY

SCALE 2:1	SIZE A	DRAWING NO. 514975	REV B
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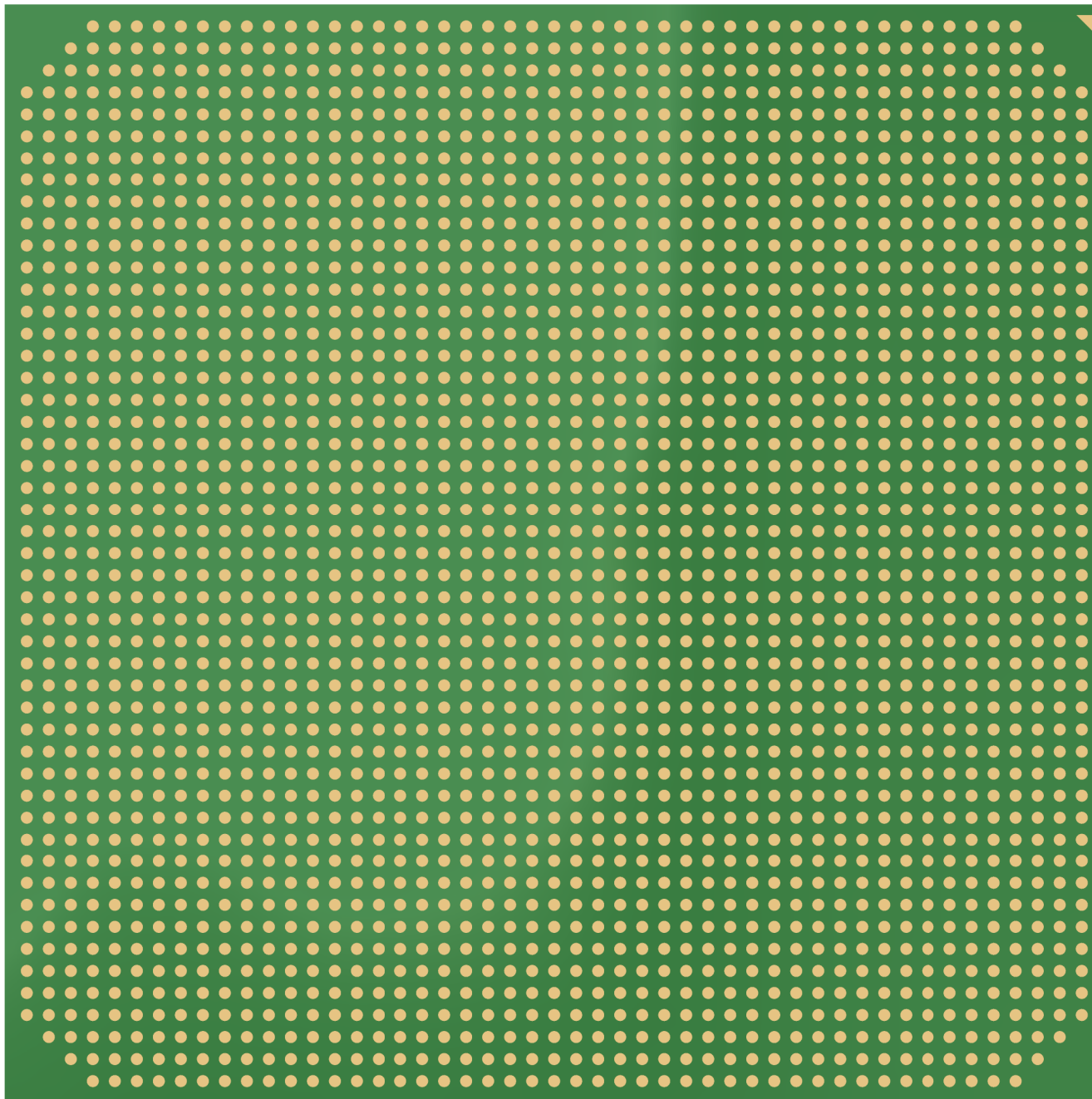
DO NOT SCALE DRAWING

SHEET 5 OF 6

# BOTTOM SOLDER MASK (RIGHT READING)

49 47 45 43 41 39 37 35 33 31 29 27 25 23 21 19 17 15 13 11 9 7 5 3 1  
48 46 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2

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BH  
BJ



<b>TopLine<sup>®</sup></b>			
TITLE		SBGA2377T1.0-DC497D DAISY CHAIN DUMMY	
SCALE	SIZE	DRAWING NO.	REV
3.75:1	A	514975	B
DO NOT SCALE DRAWING			SHEET 6 OF 6