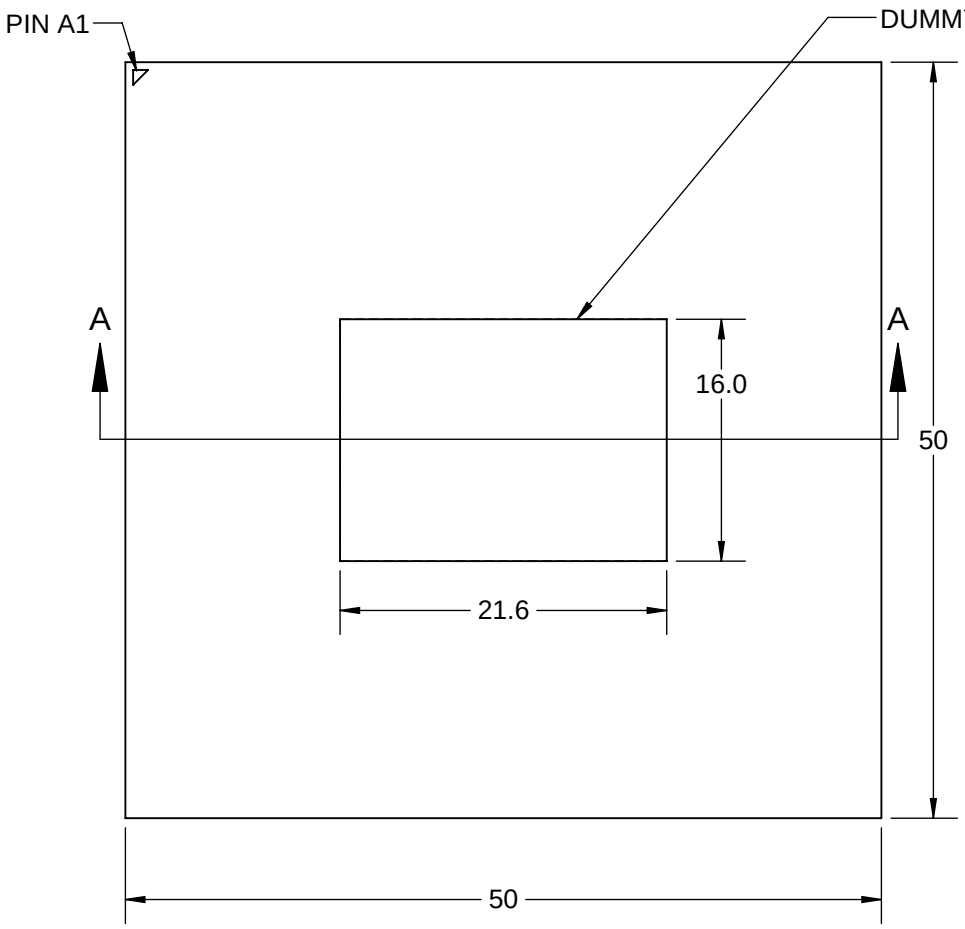
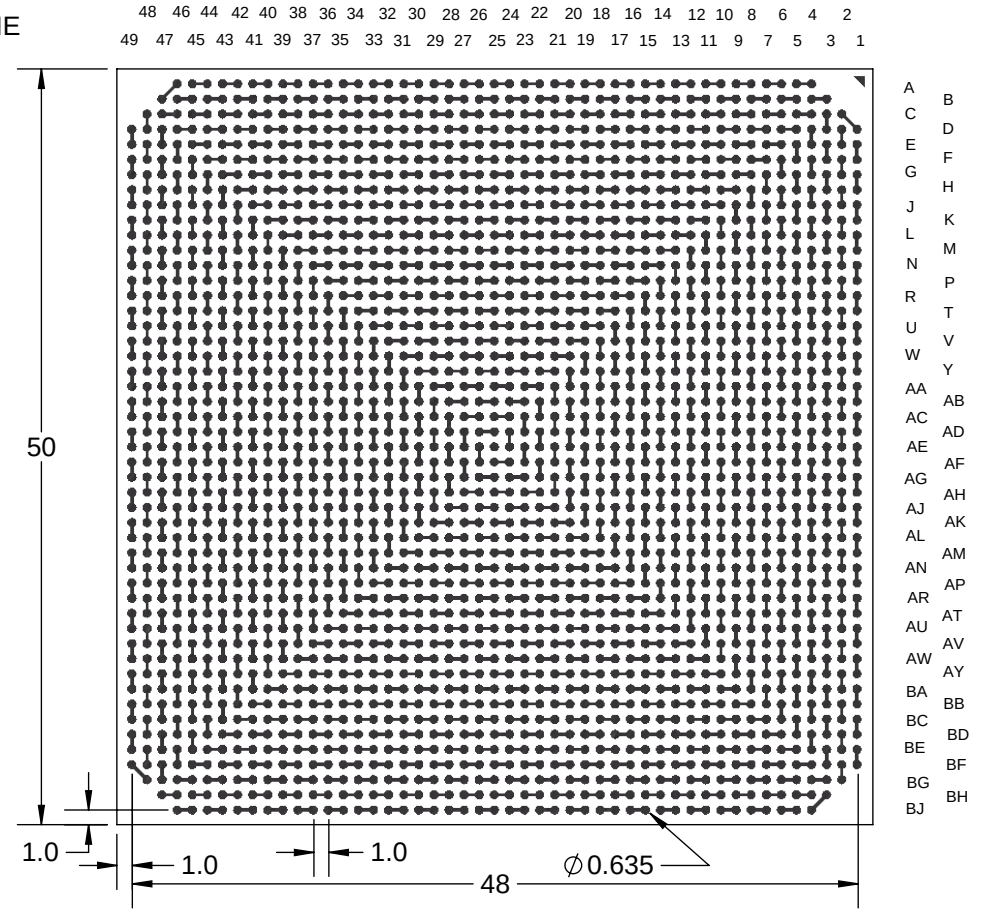
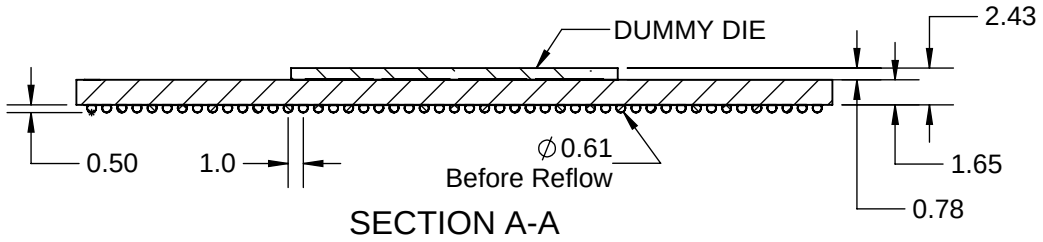
TOP VIEW



BOTTOM VIEW





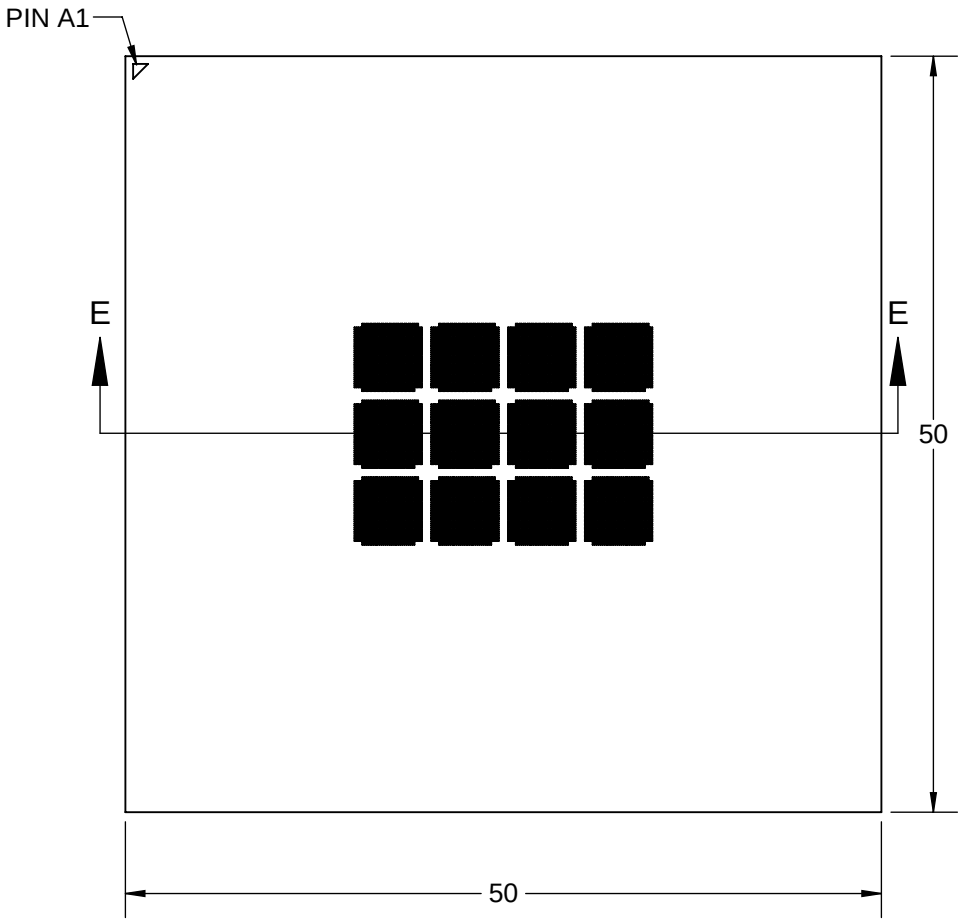
SECTION A-A

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: 0.508mm (20 MIL).
5) PAD Cu DIAMETER: 0.635mm (25 MIL).
6) SUBSTRATE MATERIAL: ORGANIC.
7) DUMMY DIE Si (SILICON) 21.6 x 16 x .787mm (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.

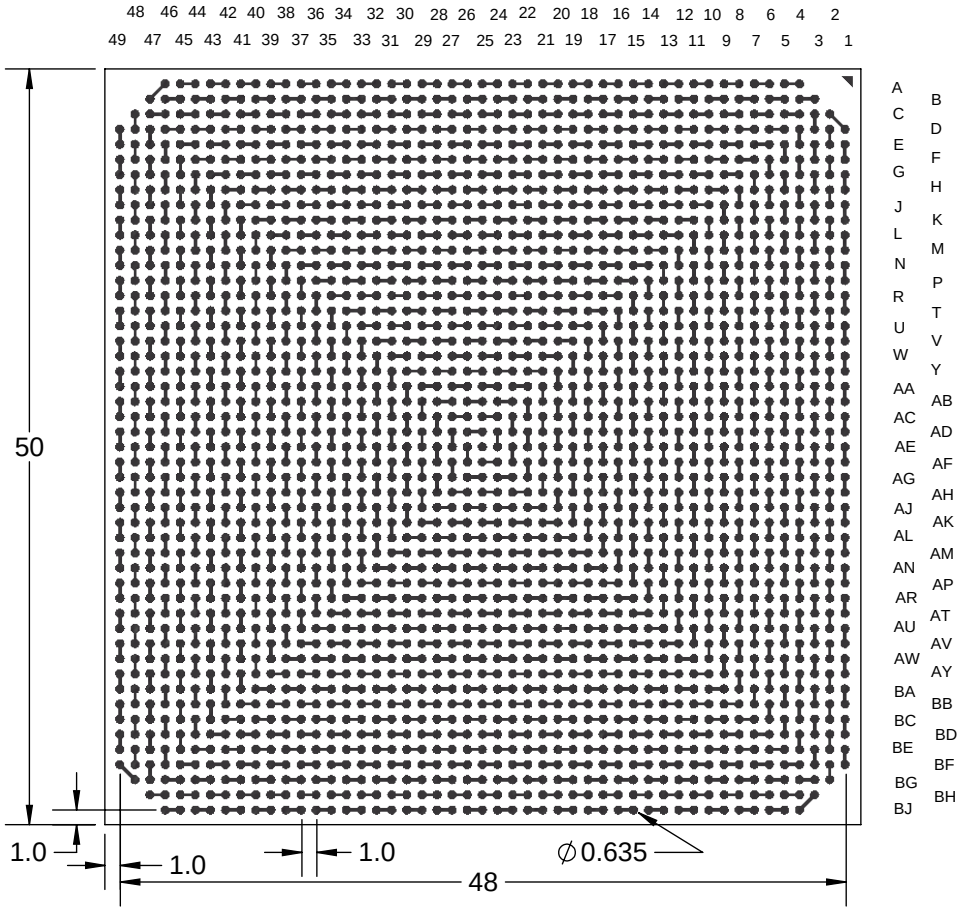
PART NUMBER TABLE				
PART NUMBER	**BALL ALLOY**	**BALL ALLOY**	**RoHS**	**Si DIE**
LBGA2377T1.0C-DC497D	Sn96.5/Ag3.0/Cu0.5	SAC305	YES	YES
LBGA2377T1.0-DC497D	Sn63/Pb37	Sn63	NO	YES

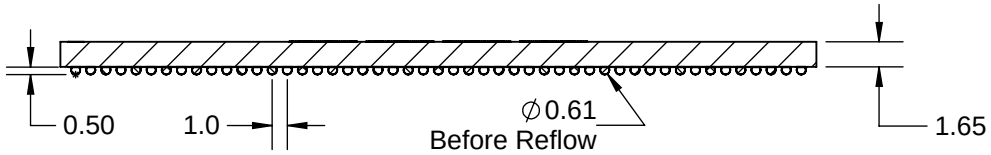
APPROVALS	DATE				
DRAWN T.Au	8/31/2018	TopLine®			
ENG M. Hart	8/31/2018	TITLE	LBGA23771.0C-DC497 DAISY CHAIN DUMMY		
MFG					
QA		SCALE	SIZE	DRAWING NO.	REV
CUST		2:1	A	514972	B
REVISED		DO NOT SCALE DRAWING			SHEET 1 OF 7

TOP VIEW



BOTTOM VIEW





SECTION E-E

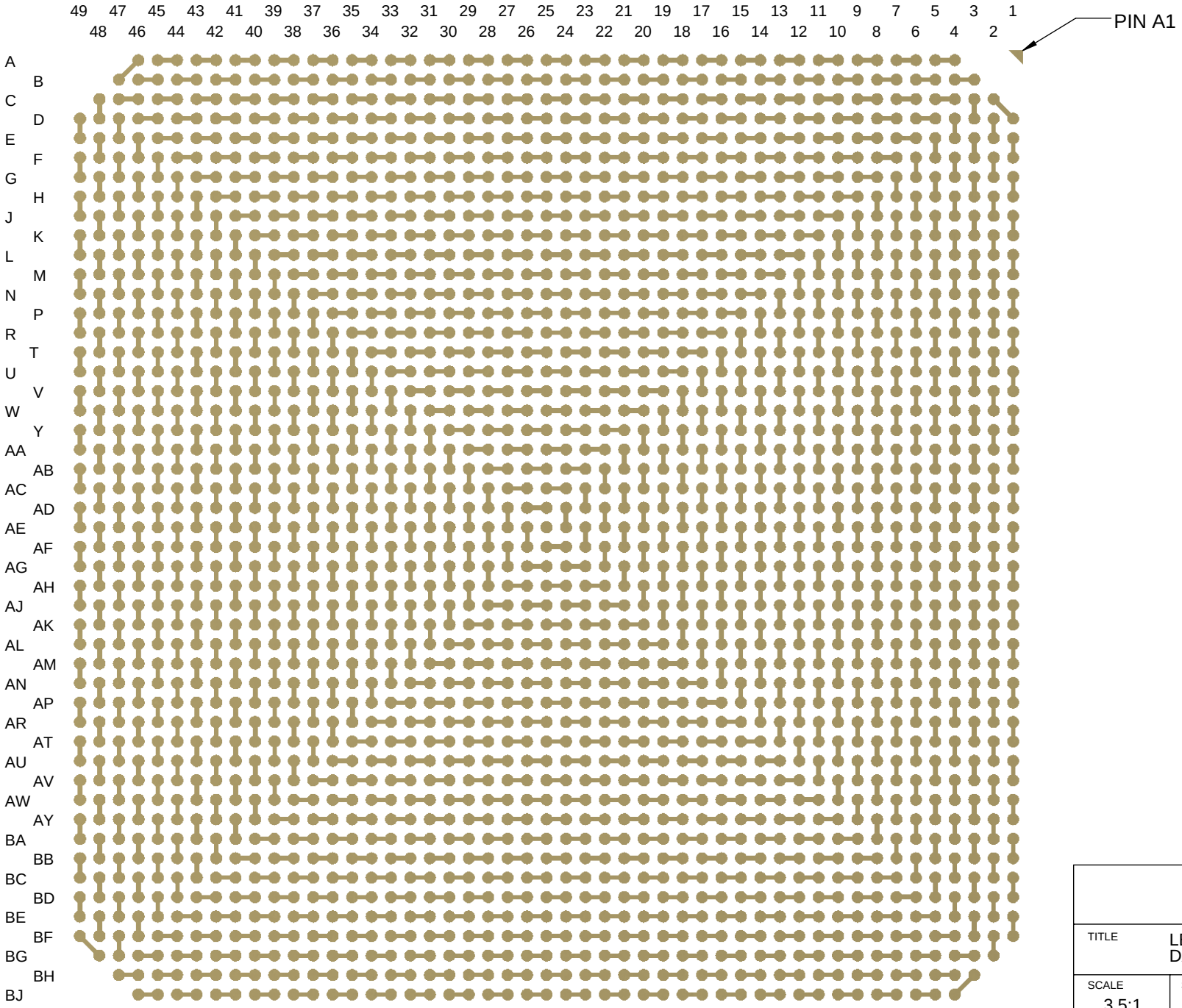
Notes: (Unless Otherwise Specified).
1) ALL DIMENSIONS ARE IN MM.
2) SOLDER BALL ALLOY: SEE PART NUMBER TABLE.
3) BALL DIAMETER (BEFORE REFLOW): 0.61mm (24 MIL).
4) SOLDER MASK DEFINED PAD OPENING: 0.508mm (20 MIL).
5) PAD Cu DIAMETER: 0.635mm (25 MIL).
6) SUBSTRATE MATERIAL: ORGANIC.
7) DUMMY DIE Si (SILICON) NONE.
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**
LBGA2377T1.0C-DC497	Sn96.5/Ag3.0/Cu0.5	SAC305	YES	NO
LBGA2377T1.0-DC497	Sn63/Pb37	Sn63	NO	NO

TopLine®

TITLE	LBGA23771.0C-DC497 DAISY CHAIN DUMMY		
SCALE	SIZE	DRAWING NO.	REV
2:1	A	514972	B
DO NOT SCALE DRAWING		SHEET 2 OF 7	

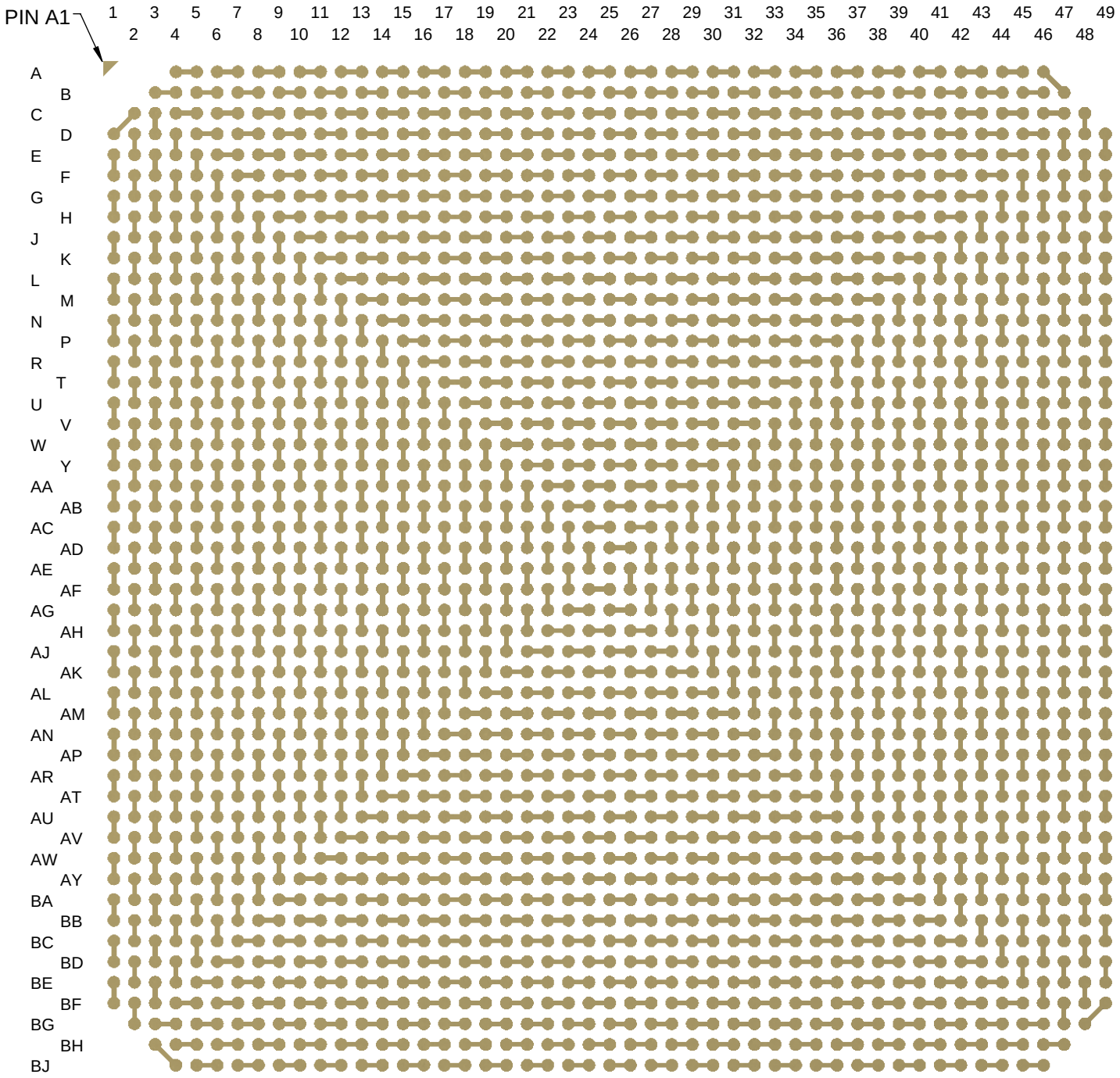
BALL VIEW



TopLine®

TITLE	LBGA23771.0C-DC497 DAISY CHAIN DUMMY		
SCALE 3.5:1	SIZE A	DRAWING NO. 514972	REV B
DO NOT SCALE DRAWING		SHEET 3 OF 7	

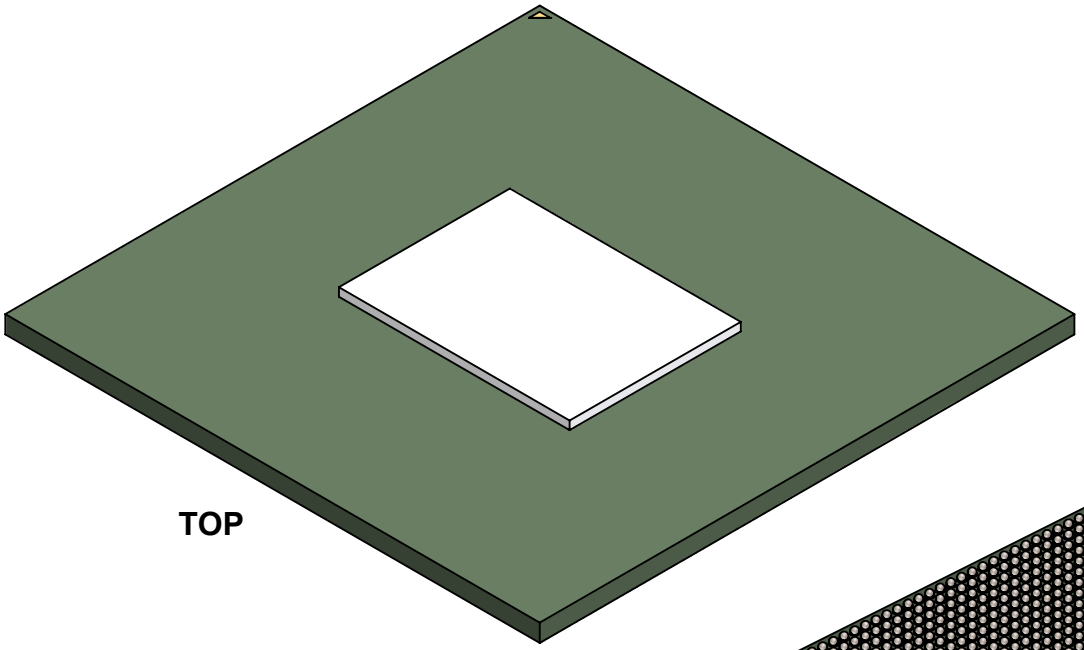
BOTTOM SIDE (TOP X-RAY VIEW)



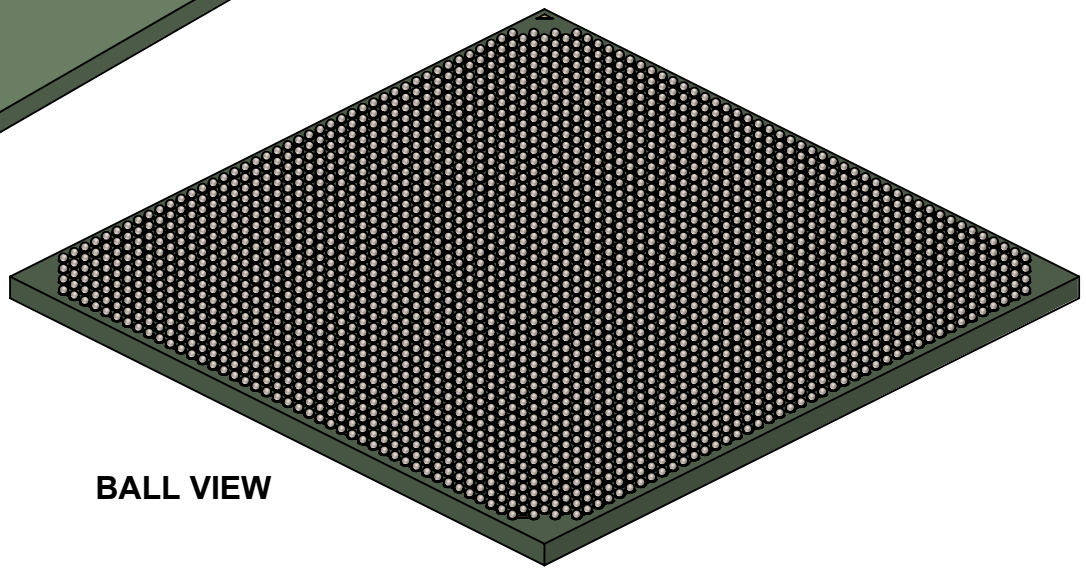
TopLine®

TITLE	LBGA23771.0C-DC497 DAISY CHAIN DUMMY		
SCALE 3.5:1	SIZE A	DRAWING NO. 514972	REV B
DO NOT SCALE DRAWING		SHEET 4 OF 7	

MODEL WITH DIE



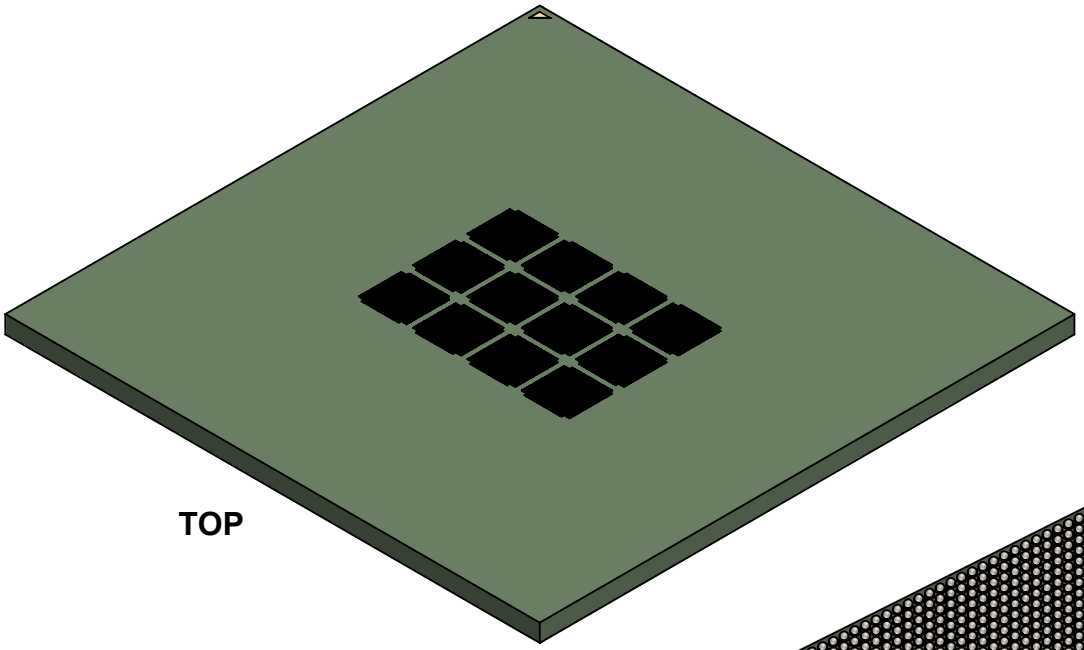
TOP



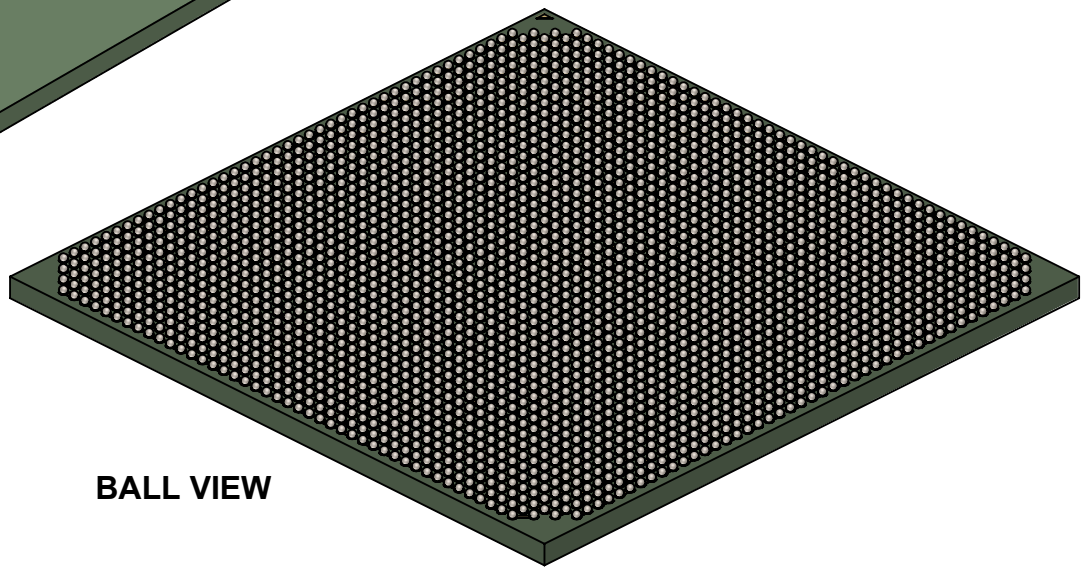
BALL VIEW

TopLine®			
TITLE	LBGA23771.0C-DC497 DAISY CHAIN DUMMY		
SCALE 2:1	SIZE A	DRAWING NO. 514972	REV B
DO NOT SCALE DRAWING			SHEET 5 OF 7

MODEL WITHOUT DIE



TOP

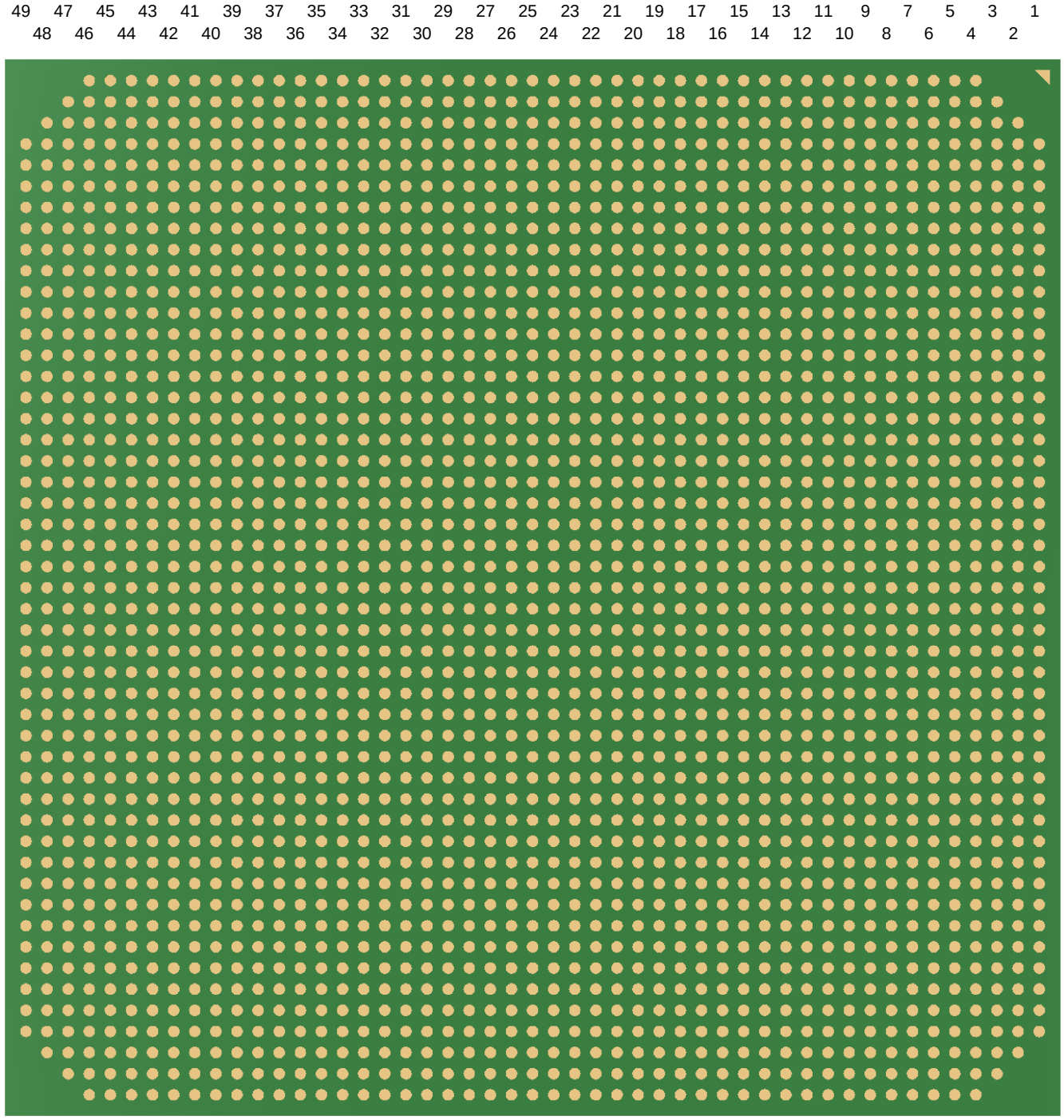


BALL VIEW

TopLine®

TITLE	LBGA23771.0C-DC497 DAISY CHAIN DUMMY		
SCALE 2:1	SIZE A	DRAWING NO. 514972	REV B
DO NOT SCALE DRAWING		SHEET 6 OF 7	

BOTTOM SOLDER MASK
(RIGHT READING)



TopLine®

TITLE	LBGA23771.0C-DC497 DAISY CHAIN DUMMY		
SCALE 3.75:1	SIZE A	DRAWING NO. 514972	REV B
DO NOT SCALE DRAWING		SHEET 7 OF 7	