


Notes: (Unless Otherwise Specified)

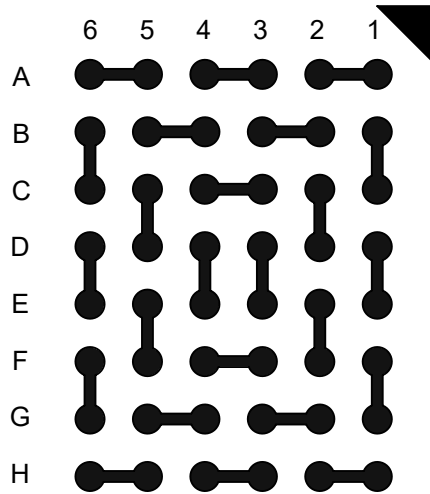
- 1) ALL DIMENSIONS ARE IN MM.
- 2) SOLDER BALL ALLOY: SEE PART NUMBER TABLE.
- 3) BALL DIAMETER (BEFORE REFLOW) 0.40mm.
- 4) SOLDER MASK DEFINED PAD OPENING: 0.32mm [13 MIL].
- 5) PAD Cu DIAMETER: 0.406mm [16 MIL].
- 6) SUBSTRATE MATERIAL: BT.
- 7) DUMMY DIE: 3.2 x 3.8mm, 0.25mm [10MIL] THICK
- 8) DAISY 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**

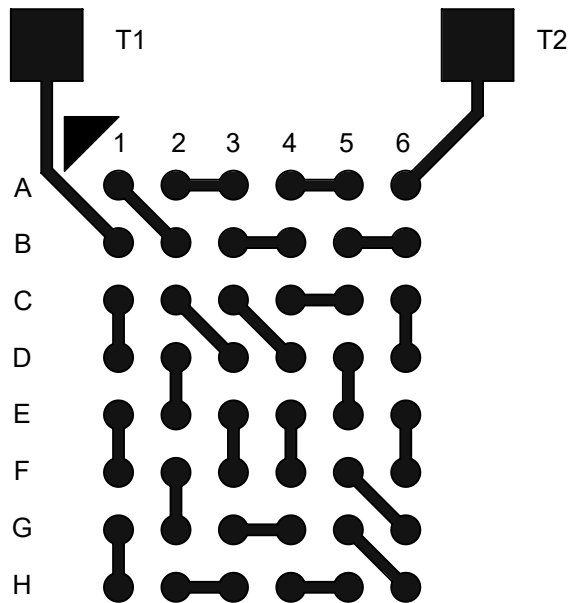
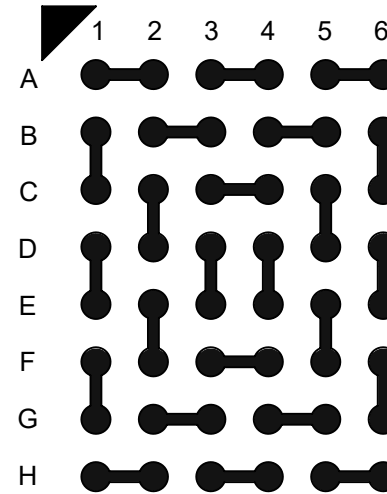
PART NUMBER	BALL ALLOY	BALL CODE	RoHS	Si DIE
BGA48T.8C-DC689D	Sn96.5/Ag3.0/Cu0.5	SAC305	YES	YES
BGA48T.8-DC689D	Sn63/Pb37	Sn63	NO	YES

APPROVALS	DATE				
DRAWN T.Au	1/1/2022				
ENG M. Hart	1/1/2022	TITLE BGA48T.8C-DC689D DUMMY			
MFG		SCALE 11:1	SIZE A	DRAWING NO. 586891	REV A
QA		DO NOT SCALE DRAWING			SHEET 1 OF 3
CUST					
REVISED					

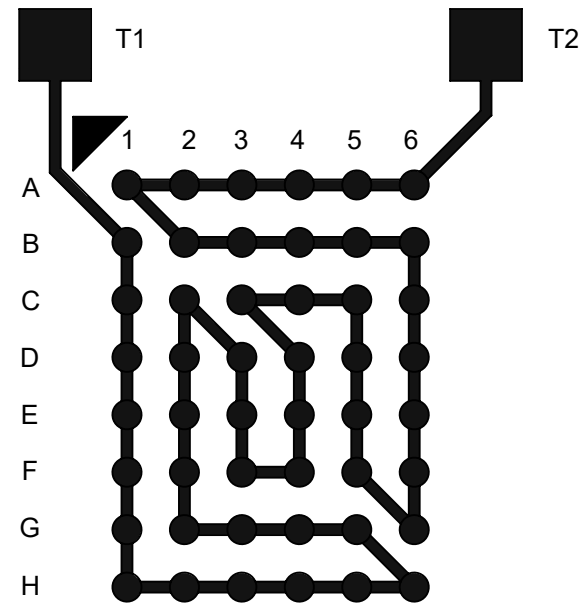
### BALL VIEW



### BOTTOM SIDE (TOP X-RAY VIEW)



### TEST VEHICLE BOARD



### AFTER MOUNTING

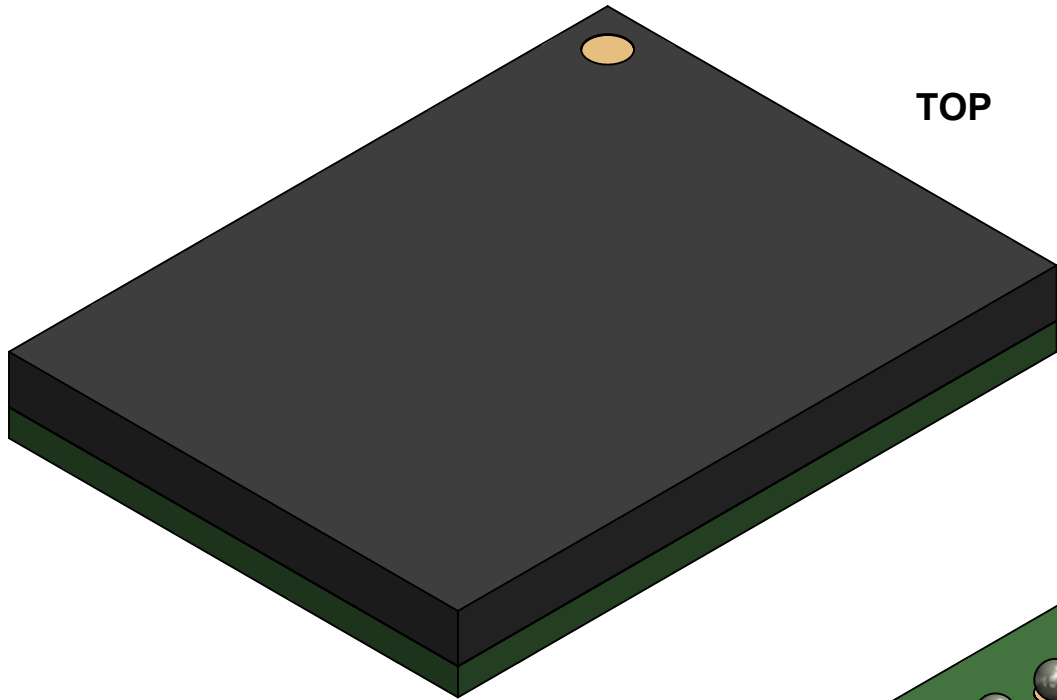
**Notes:**

- 1) PCB BOARD DIMENSIONS ARE PRESENTED ONLY AS A GUIDELINE. DESIGNERS SHOULD USE THEIR OWN EXPERIENCE WHEN DESIGNING PCB
- 2) PCB Cu BALL PAD DIAMETER 0.406mm [16 MIL].
- 3) PCB DAISY CHAIN TRACING LINE WIDTH 0.152mm [6 MIL].
- 4) SMD (SOLDER MASK DEFINED) PAD OPENING 0.320mm [13 MIL].

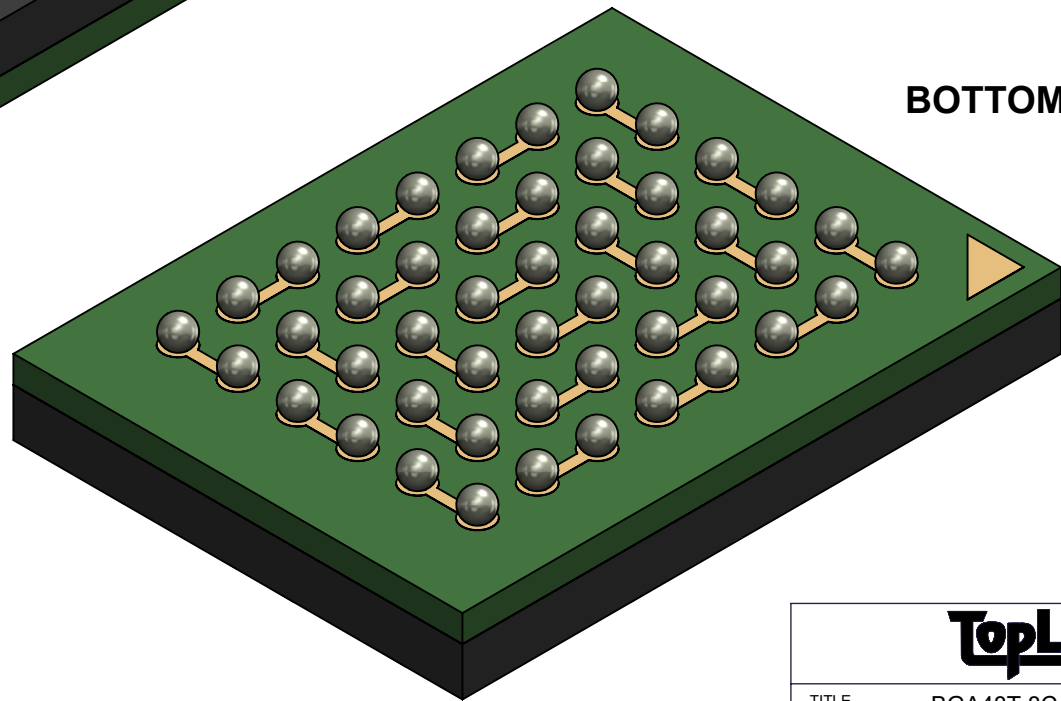
**TopLine®**

TITLE			
BGA48T.8C-DC689D DUMMY			
SCALE	SIZE	DRAWING NO.	REV
10:1	A	586891	A
DO NOT SCALE DRAWING			SHEET 2 OF 3

# MODEL



TOP



BOTTOM

**TopLine**<sup>®</sup>

TITLE BGA48T.8C-DC689D  
DUMMY

SCALE 14:1	SIZE A	DRAWING NO. 586891	REV A
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SHEET 3 OF 3