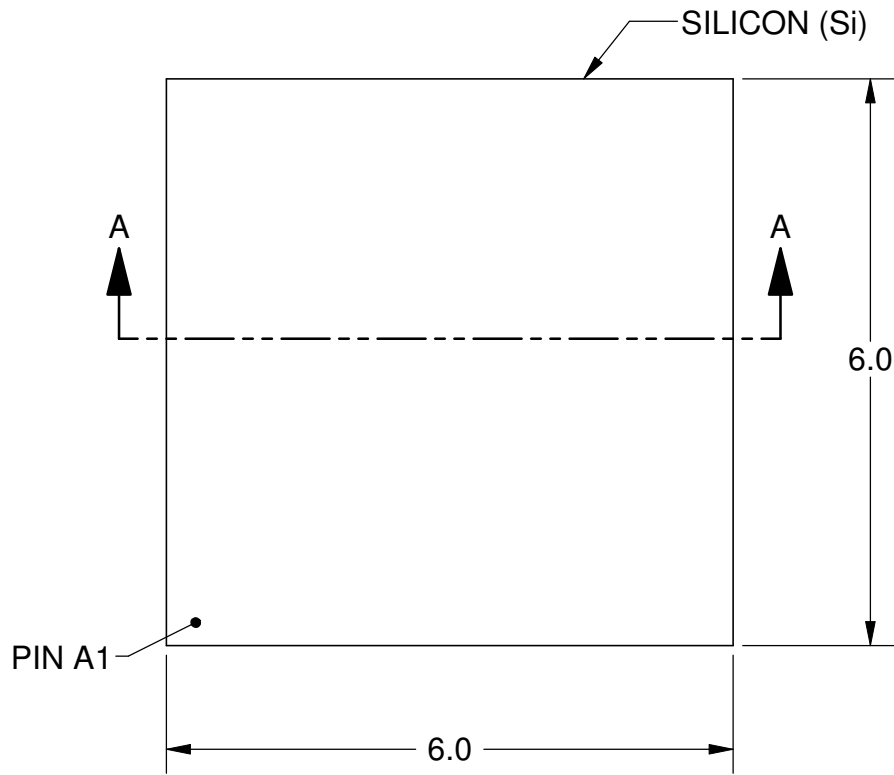
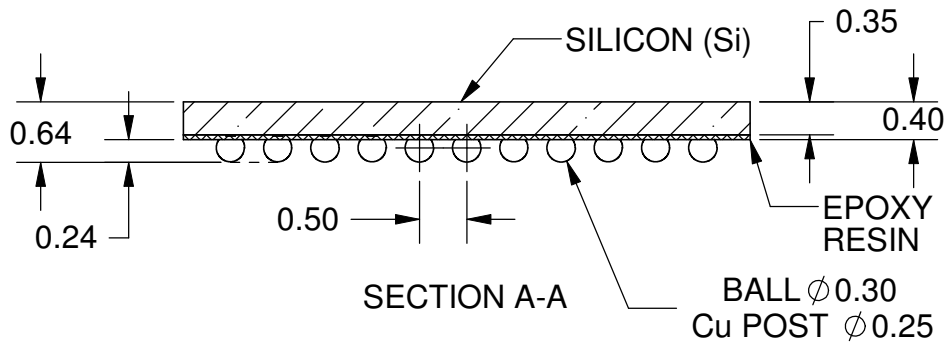
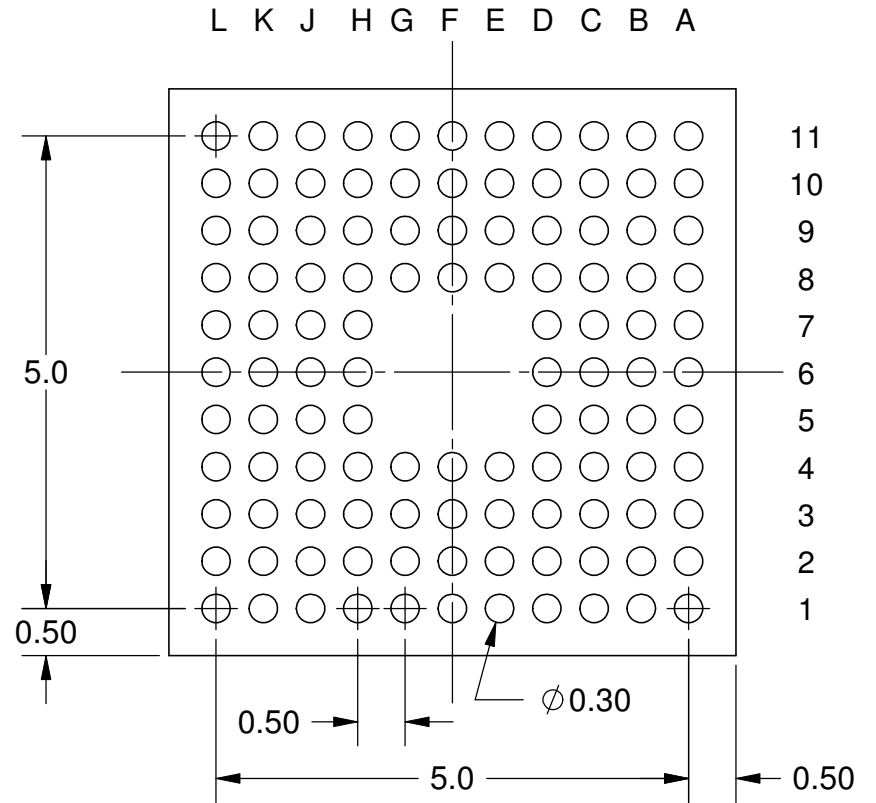


TOP VIEW



BALL VIEW



Notes: (Unless Otherwise Specified).

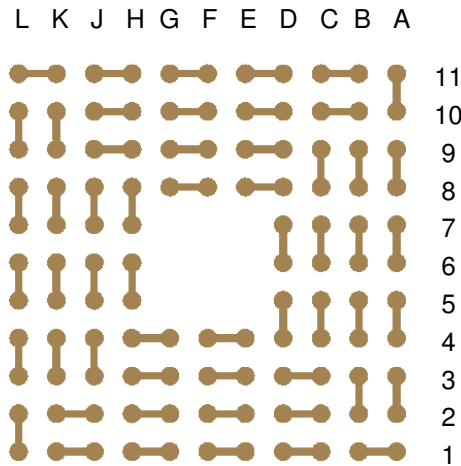
- 1) ALL DIMENSIONS ARE IN MM.
- 2) SOLDER BALL ALLOY:  
STANDARD: SAC305 (Sn96.5/Ag3.0/Cu0.5).  
SPECIAL: LF35 (Sn98.3/Ag1.2/Cu0.5).
- 3) BALL DIAMETER (BEFORE REFLOW): 0.30mm.
- 4) NON-SOLDER MASK DEFINED PAD.
- 5) PAD Cu DIAMETER: 0.25mm.
- 6) SUBSTRATE MATERIAL: Si (SILICON).
- 7) DAISY CHAIN PATTERN (SEE PAGE 2).

PART NUMBER TABLE				
PART NUMBER	BALL ALLOY	Pb-FREE	RoHS	Si DIE
WLP112T.5C-DC113D	Sn96.5/Ag3.0/Cu0.5	YES	YES	YES
WLP112T.5C1-DC113D	Sn98.3/Ag1.2/Cu0.5	YES	YES	YES

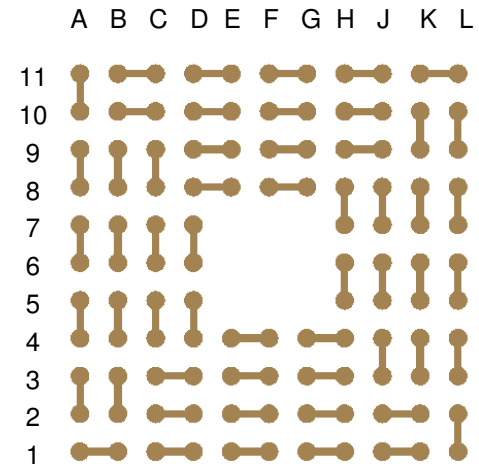
TOLERANCE UNLESS NOTED		APPROVALS		DATE		<b>TopLine</b> <sup>®</sup>				
X.X	+/- 0.3	DRAWN J. Hines		1/16/2011						TITLE
X.XX	+/- 0.03	ENG				WLP112T.5C-DC113D				
X.XXX	+/- 0.003	MFG				112-BALL P=0.5mm				
ANGLES +/- 0.5°		QA		SCALE		SIZE		DRAWING NO.		REV
ALL DIMENSIONS IN		CUST		12.5:1		A		551132		A
<input type="checkbox"/> INCHES <input checked="" type="checkbox"/> MILLIMETERS		REVISED								
THIRD ANGLE PROJECTION										
						DO NOT SCALE DRAWING		SHEET 1 OF 2		

# DAISY CHAIN PATTERN

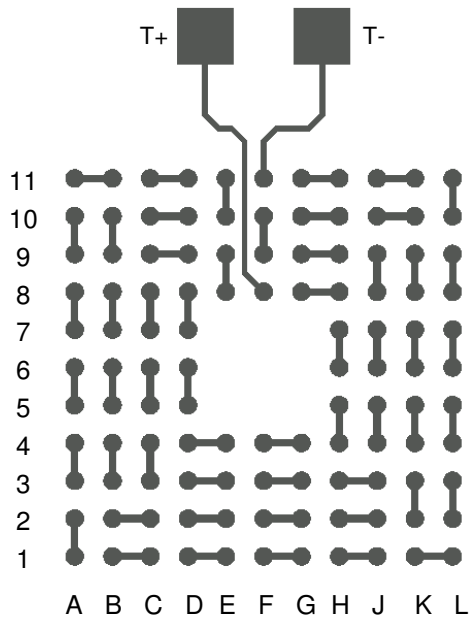
BALL VIEW



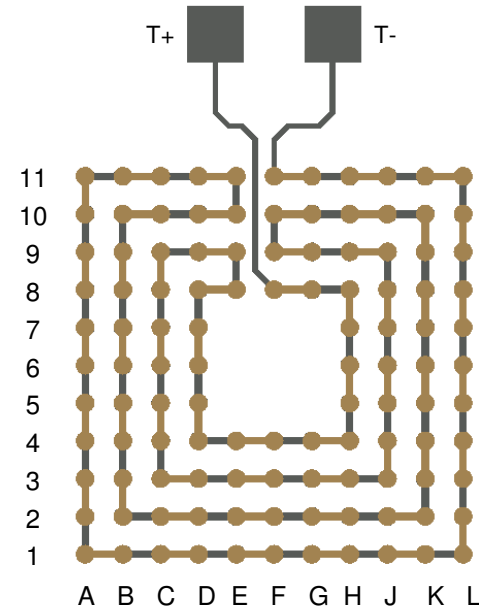
BOTTOM SIDE  
(TOP X-RAY VIEW)



TOP VIEW



AFTER MOUNTING  
TO TEST BOARD  
(TOP X-RAY VIEW)



TEST VEHICLE BOARD

**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 0.25mm (9.8mil).
- 3) PCB DAISY CHAIN TRACING LINE WIDTH 0.10mm (3.9mil).

<b>TopLine</b> ®			
TITLE		WLP112T.5C-DC113D 112-BALL P=0.5mm	
SCALE	SIZE	DRAWING NO.	REV
10:1	A	551132	A
DO NOT SCALE DRAWING		SHEET 2 OF 2	