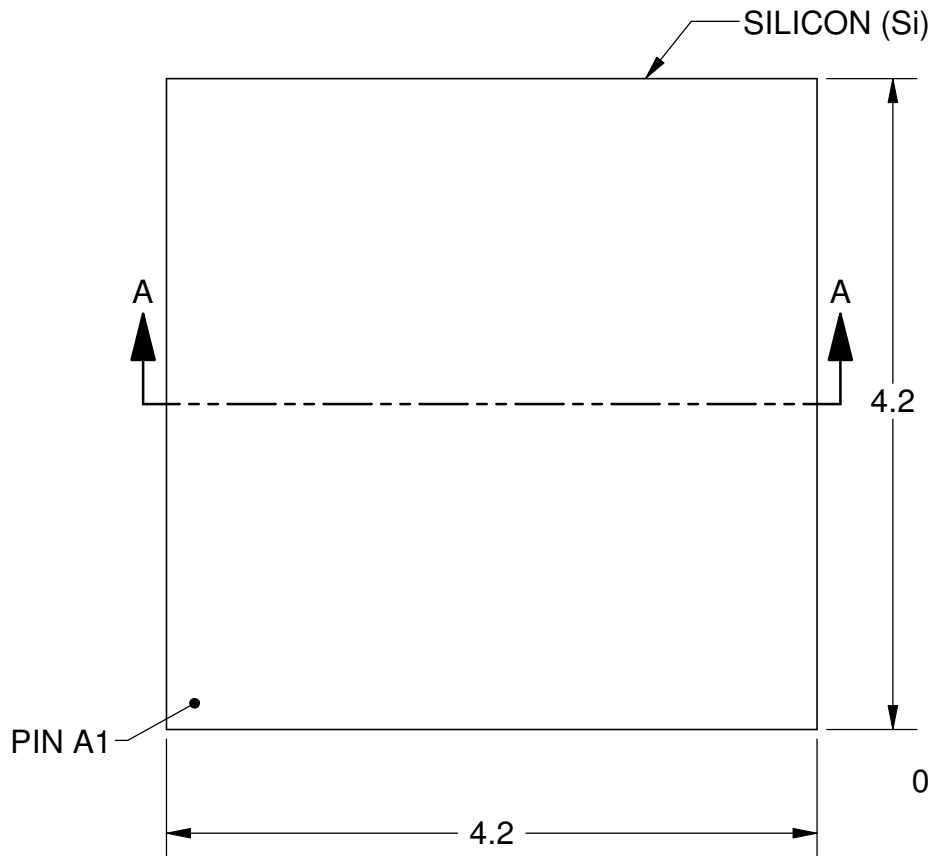
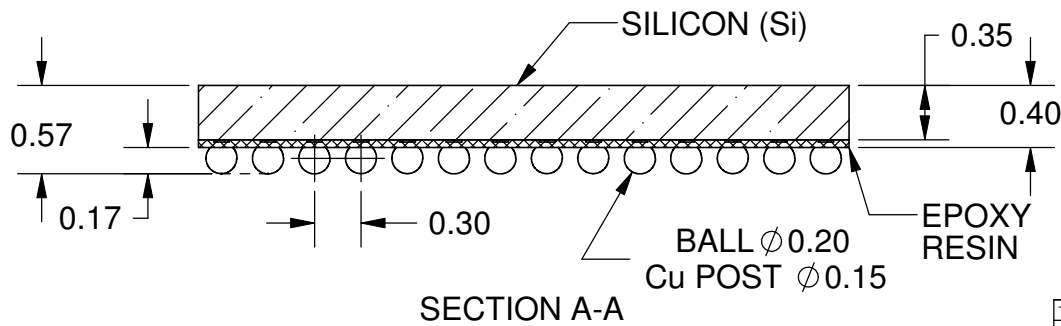
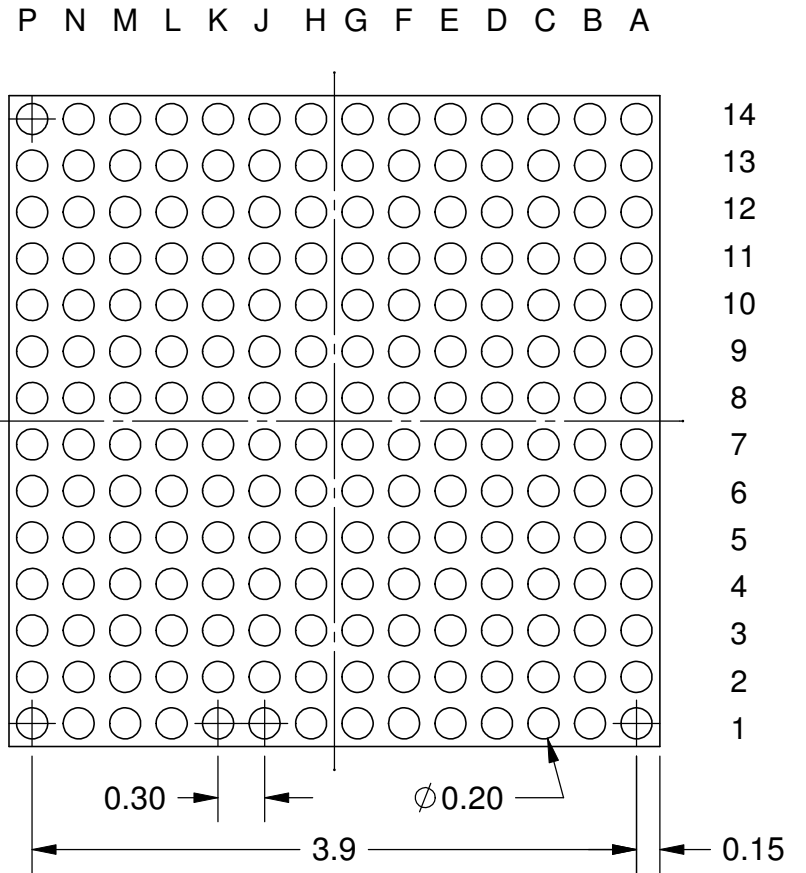


TOP VIEW



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): 0.20mm.
- 4) NON-SOLDER MASK DEFINED PAD.
- 5) PAD Cu DIAMETER: 0.15mm.
- 6) SUBSTRATE MATERIAL: Si (SILICON).
- 7) DAISY CHAIN PATTERN (SEE PAGE 2).

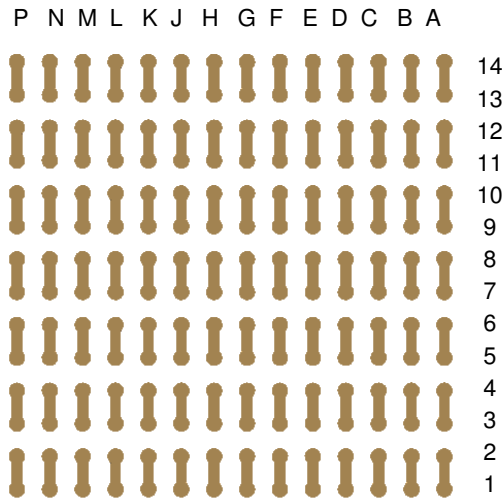
PART NUMBER TABLE

PART NUMBER	BALL ALLOY	Pb-FREE	RoHS	Si DIE
WLP196T.3C-DC148D	Sn96.5/Ag3.0/Cu0.5	YES	YES	YES
WLP196T.3C1-DC148D	Sn98.3/Ag1.2/Cu0.5	YES	YES	YES

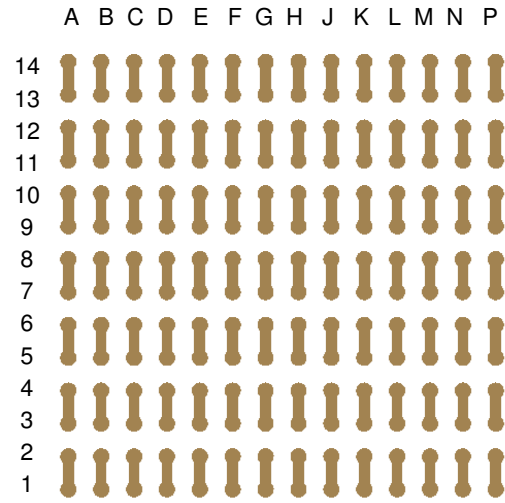
TOLERANCE UNLESS NOTED		APPROVALS		DATE				
X.X	+/- 0.3	DRAWN J. Hines		12/29/2010				
X.XX	+/- 0.03	ENG			TITLE			
X.XXX	+/- 0.003	MFG			WLP196T.3C-DC148D			
ANGLES +/- 0.5°		THIRD ANGLE PROJECTION			196-BALL P=0.3mm (TEG0306)			
ALL DIMENSIONS IN		QA			SCALE	SIZE	DRAWING NO.	REV
INCHES <input type="checkbox"/> MILLIMETERS <input checked="" type="checkbox"/>		CUST			20.5:1	A	531482	A
		REVISED			DO NOT SCALE DRAWING			SHEET 1 OF 2

DAISY CHAIN PATTERN

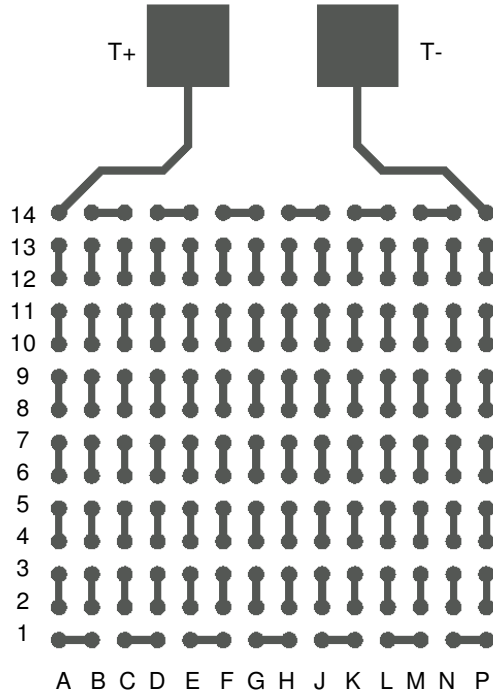
BALL VIEW



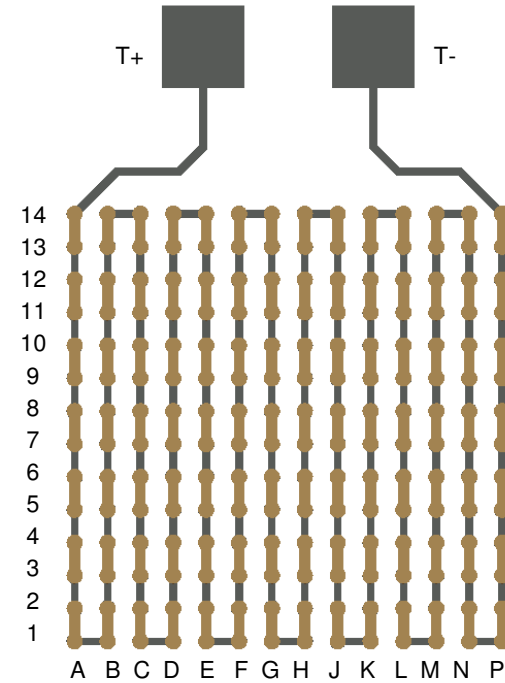
BOTTOM SIDE
(TOP X-RAY VIEW)



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 0.15mm (5.9mil).
- 3) PCB DAISY CHAIN TRACING LINE WIDTH 0.07mm (3mil).

TopLine ®			
TITLE WLP196T.3C-DC148D 196-BALL P=0.3mm (TEG0306)			
SCALE 14.5:1	SIZE A	DRAWING NO. 531482	REV A
DO NOT SCALE DRAWING		SHEET 2 OF 2	