

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
WLP484T.5C-DC228D	Sn96.5/Ag3.0/Cu0.5	YES	YES	YES

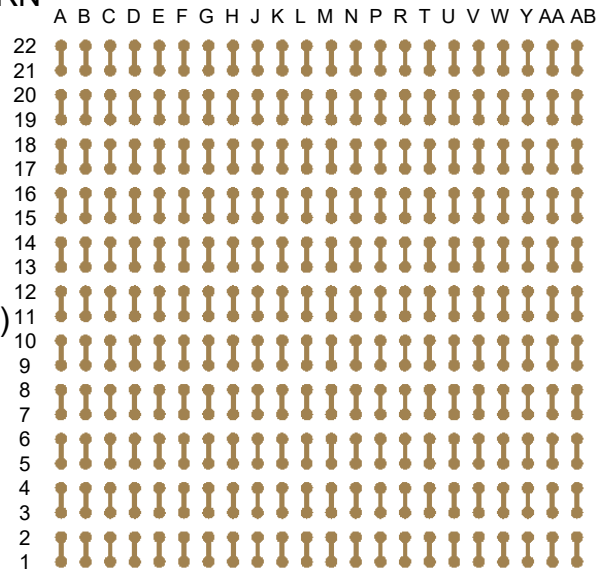
TOLERANCE UNLESS NOTED		APPROVALS		DATE			
X.X	+/- 0.3	DRAWN J. Hines		12/15/2018			
X.XX	+/- 0.03						
X.XXX	+/- 0.003						
ANGLES +/- 0.5°		ENG		TITLE WLP484T.5C-DC228D 484-BALL P=0.5mm (TEG0510)			
ALL DIMENSIONS IN <input type="checkbox"/> INCHES <input checked="" type="checkbox"/> MILLIMETERS		MFG					
THIRD ANGLE PROJECTION		QA		SCALE	SIZE	DRAWING NO.	REV
		CUST		8:1	A	552282	A
REVISED				DO NOT SCALE DRAWING		SHEET 1 OF 2	

**TopLine**

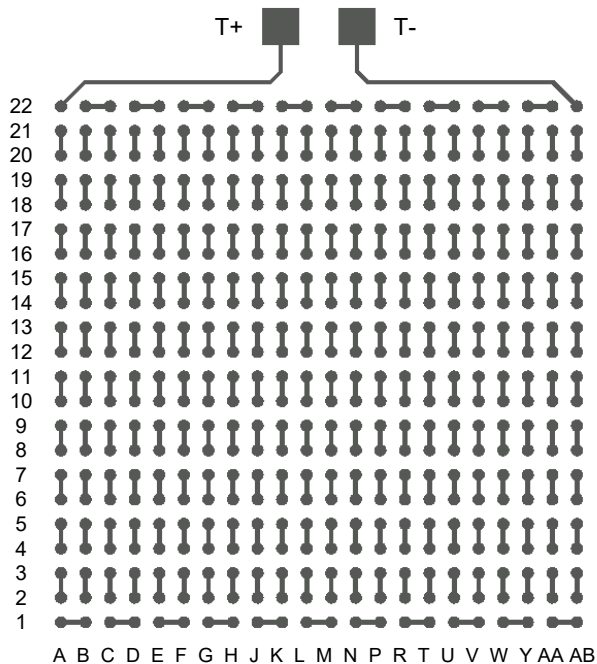
**DAISY CHAIN PATTERN**



**BALL VIEW**

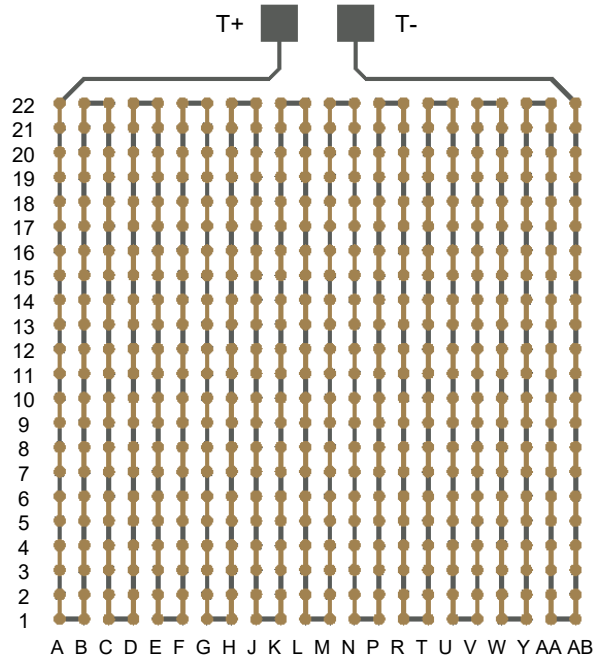


**BOTTOM SIDE  
(TOP X-RAY VIEW)**



**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> <sup>®</sup>			
TITLE    WLP484T.5C-DC228D 484-BALL P=0.5mm (TEG0510)			
SCALE 6.5:1	SIZE A	DRAWING NO. 552282	REV A
DO NOT SCALE DRAWING		SHEET 2   OF 2	