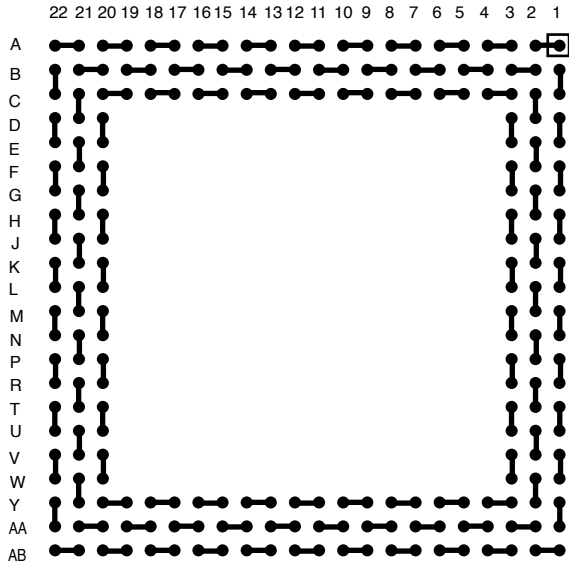
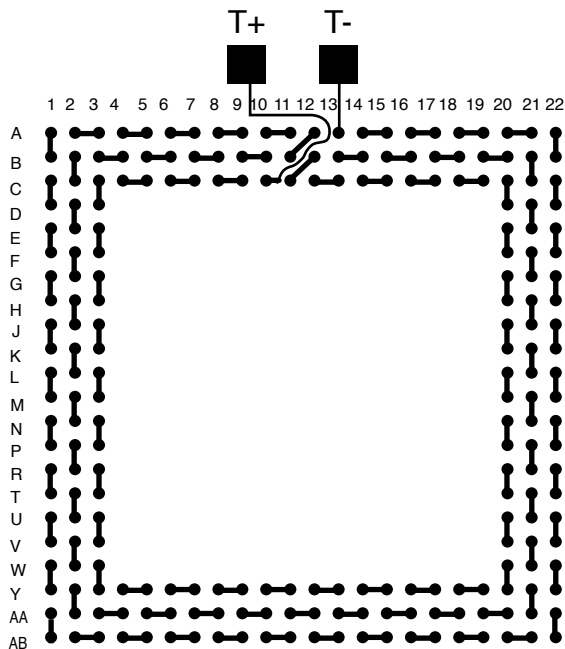
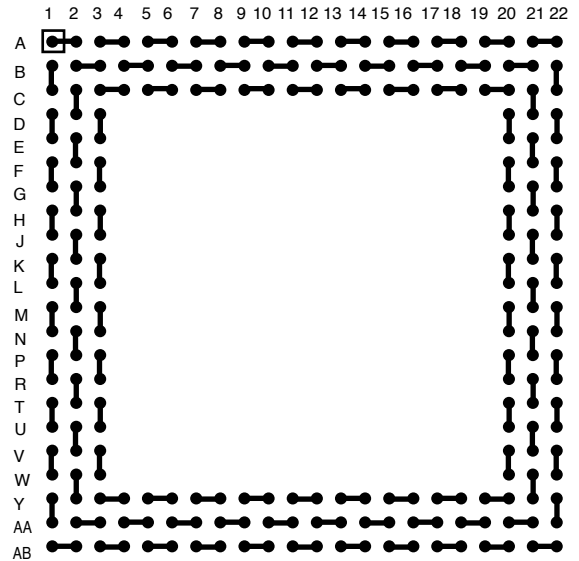


<u>balls</u>	<u>pitch</u>	<u>size</u>	<u>matrix</u>	<u>rows</u>	<u>center</u>	<u>mat'l</u>
228	0.5mm	12mm SQ	22 x 22	3	None	BT

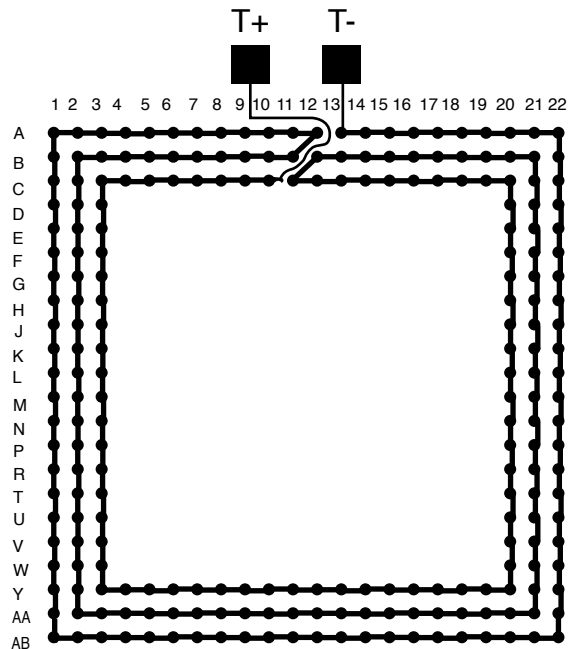
**Ball View**



**Bottom Side (Top X-Ray View)**



**Test Vehicle Board**



**After Mounting to Test Board**

# LBGA228T.5-DC222

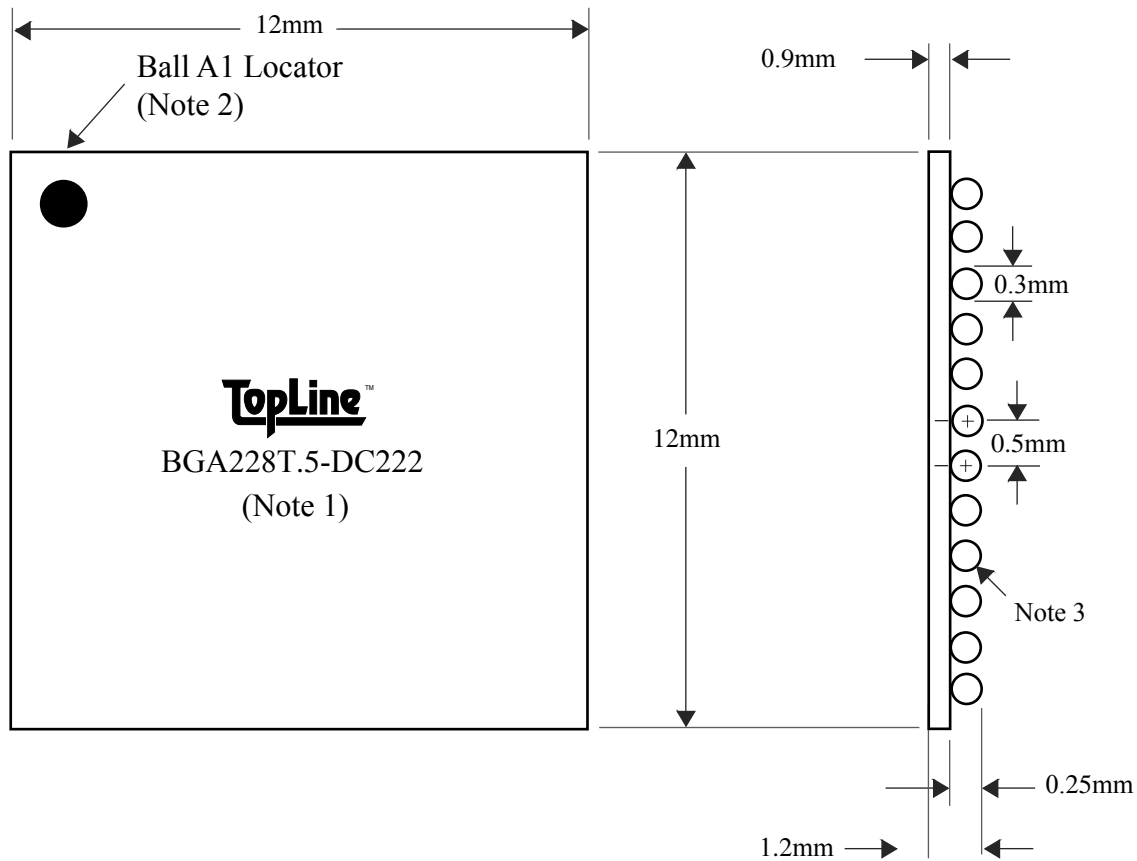


Tel 1-714-898-3830  
info@topline.tv

<u>balls</u>	<u>pitch</u>	<u>size</u>	<u>matrix</u>	<u>rows</u>	<u>center</u>	<u>mat'l</u>
228	0.5mm	12mm SQ	22 x 22	3	None	BT

**Top View**

**Side View**



<b>notes</b>		<b>revisions</b>		
Note 1	Logo and part number centered White ink marked	<u>Rev</u>	<u>Date</u>	<u>Changes</u>
Note 2	Ball A1 locator mark positioned in corner			
Note 3	Ball Material: Sn 63 Pb37	<b>packaging trays</b>		
Note 4	Substrate Material: BT laminate	Tray BGATRAY12mm-9x21 (alternate 9x22) Tray Quantity 189 (alternate 198)		