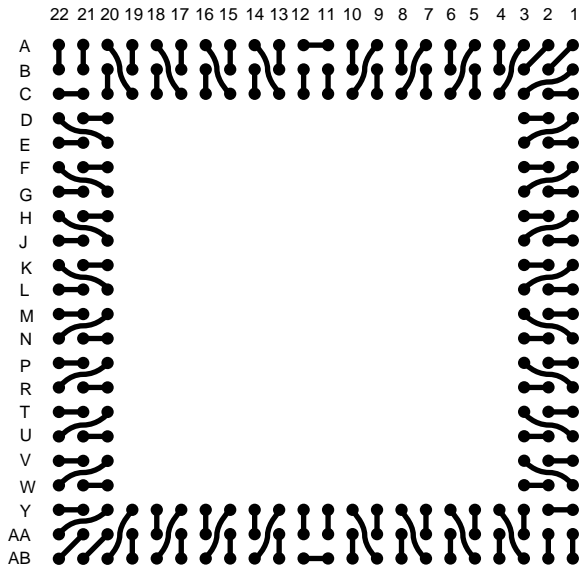


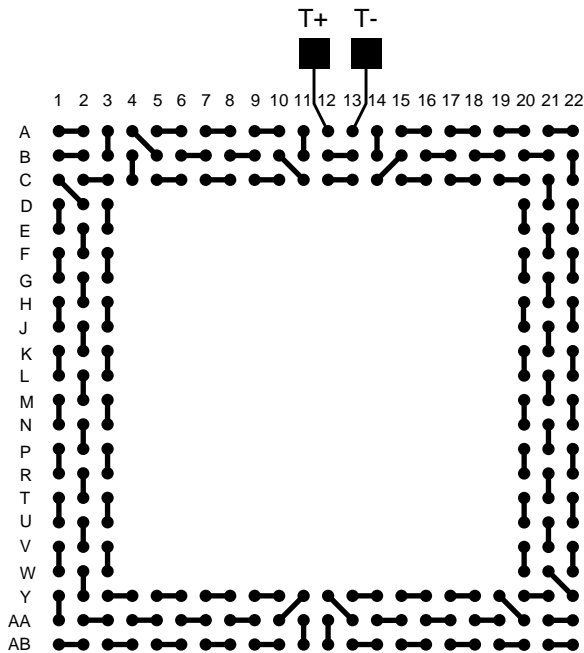
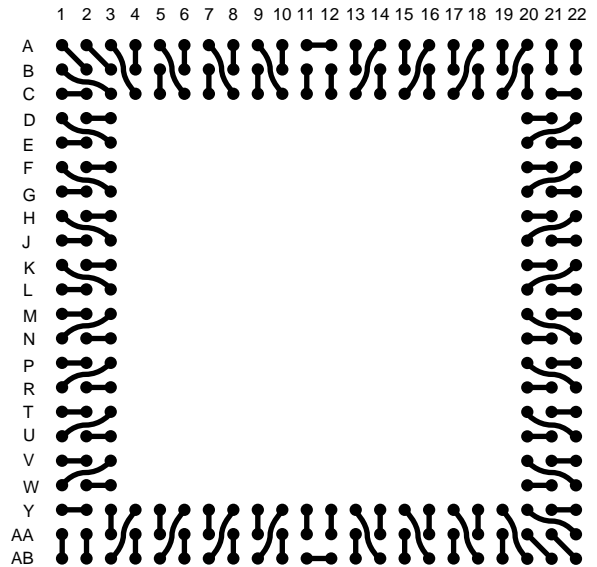
TEL 1-714-898-3830
info@topline.tv

<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	FR4

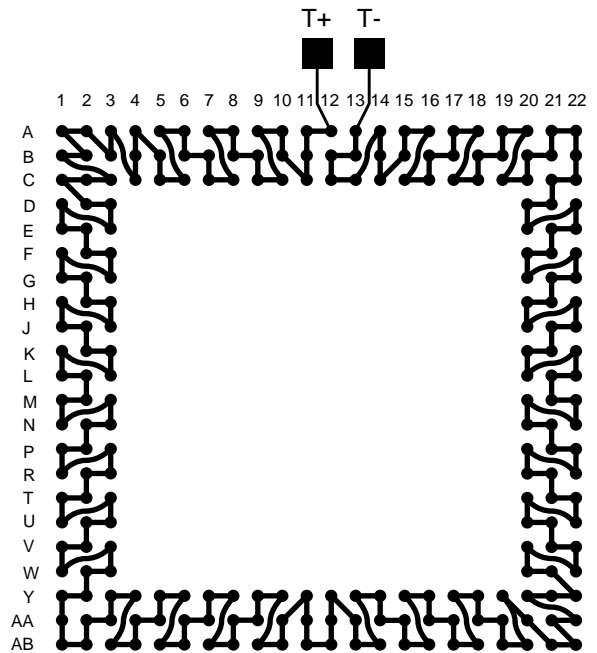
BALL VIEW



BOTTOM SIDE (TOP X-RAY VIEW)



TEST VEHICLE BOARD



AFTER MOUNTING TO TEST BOARD

LBGA228T.5C-DC223 Lead Free

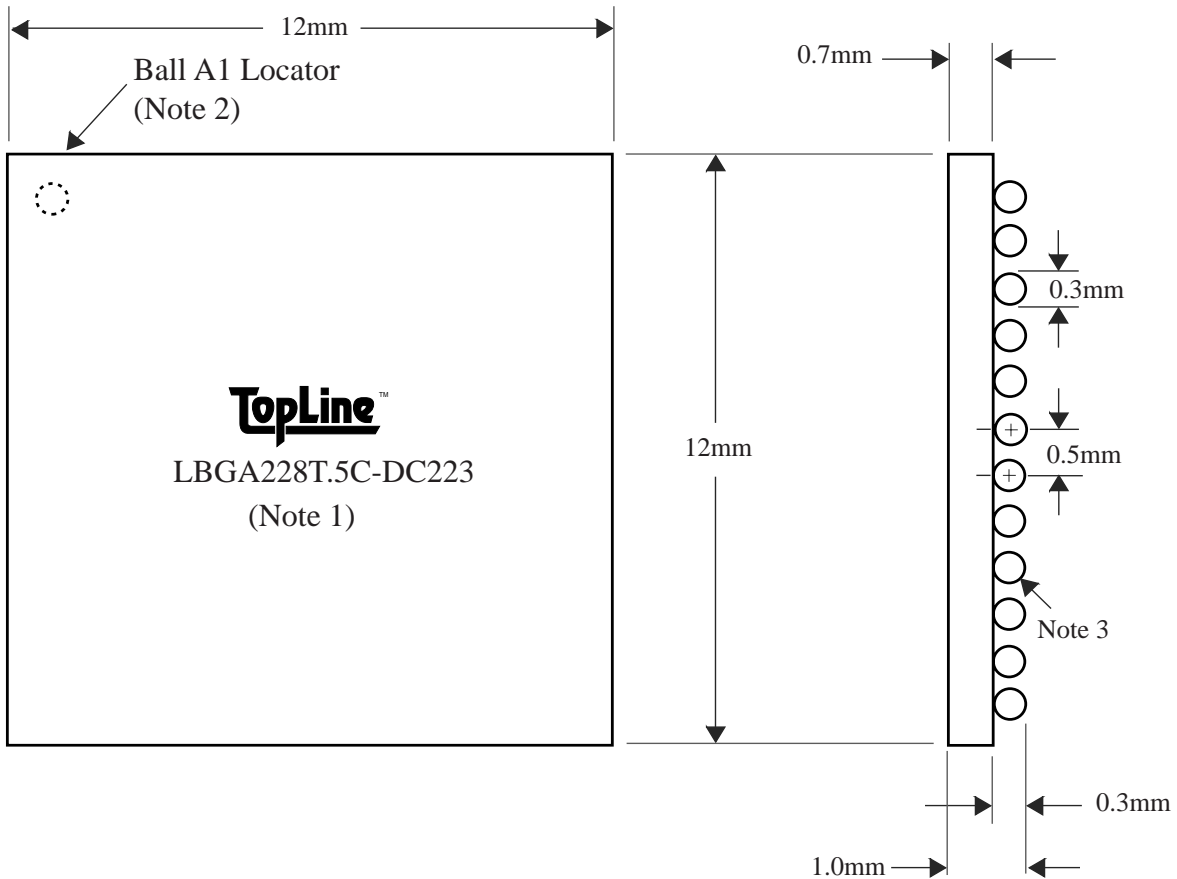


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BALLS	PITCH	SIZE	MATRIX	ROWS	CENTER	MAT'L
228	0.5mm	12mm SQ	22 x 22	3	none	FR4

TOP VIEW

SIDE VIEW



NOTES		REVISIONS		
Note 1	Logo and part number centered	Rev	Date	Changes
Note 2	Ball A1 locator mark positioned in corner			
Note 3	Ball Material Sn96.5 Ag3.0 Cu0.5			
Note 4	Substrate Material: FR4			
		PACKAGING TRAYS		
		Tray BGATRAY12mm-9x21		
		Tray Quantity 189		