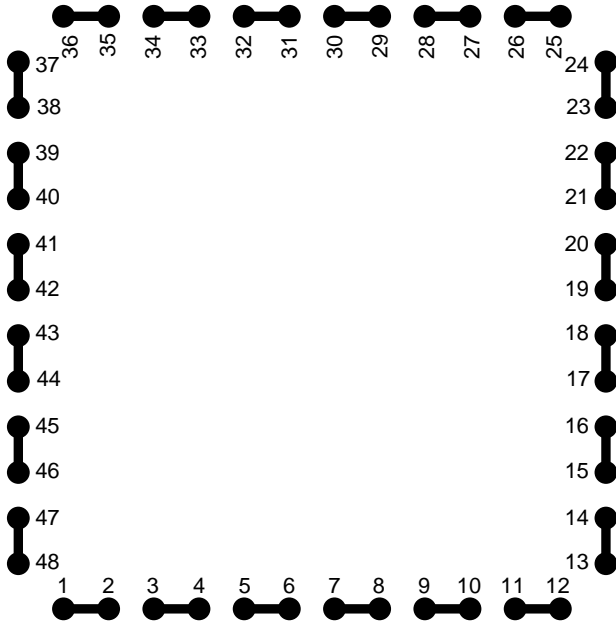
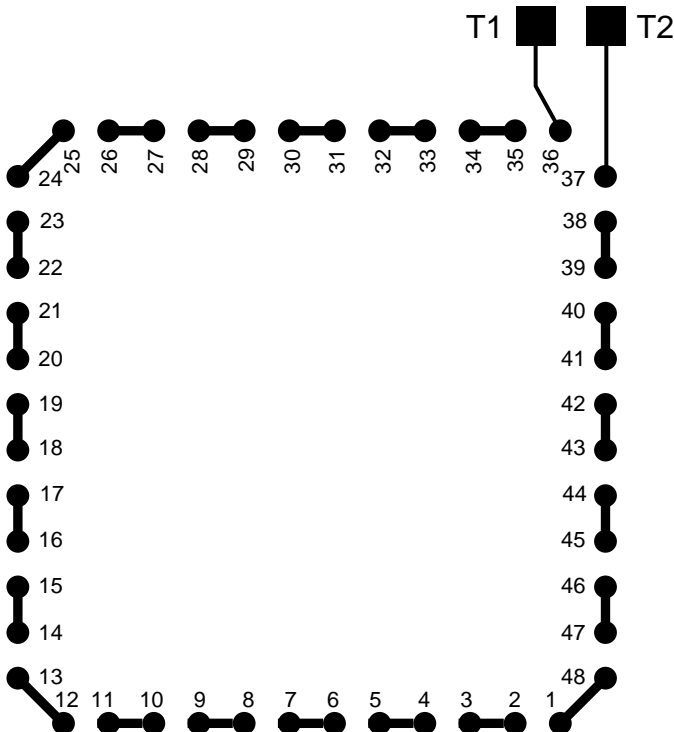
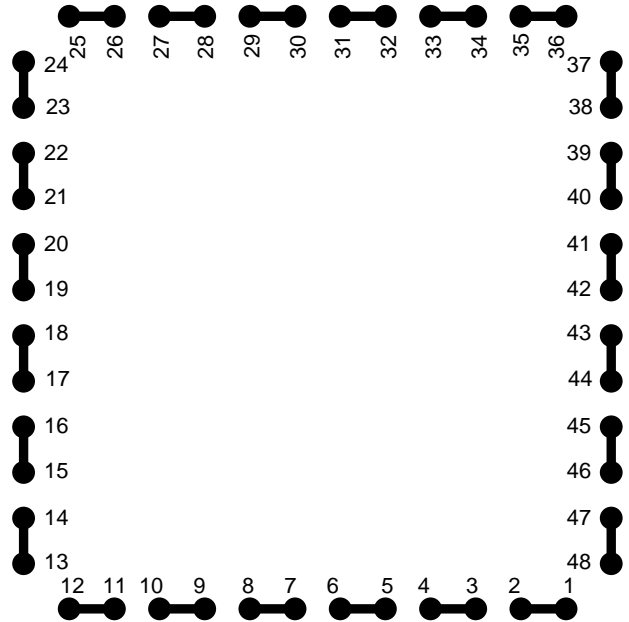


<u>BUMP</u>	<u>PITCH</u>	<u>BUMP DIA.</u>	<u>BODY SIZE</u>	<u>BUMP MAT'L</u>	<u>Bump H</u>
48	457µm	178µm	6.3mm SQ	Sn63	140um

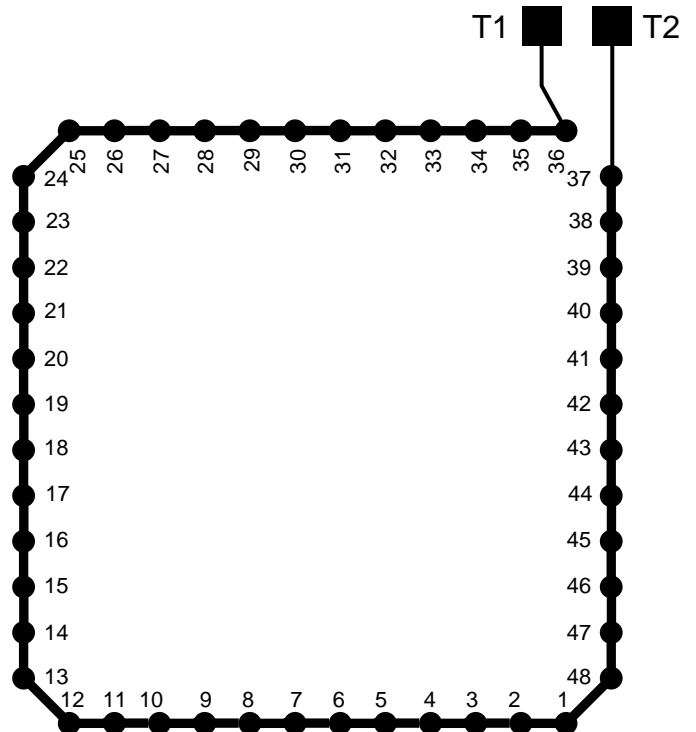
BALL VIEW



X-RAY VIEW



PCB VIEW



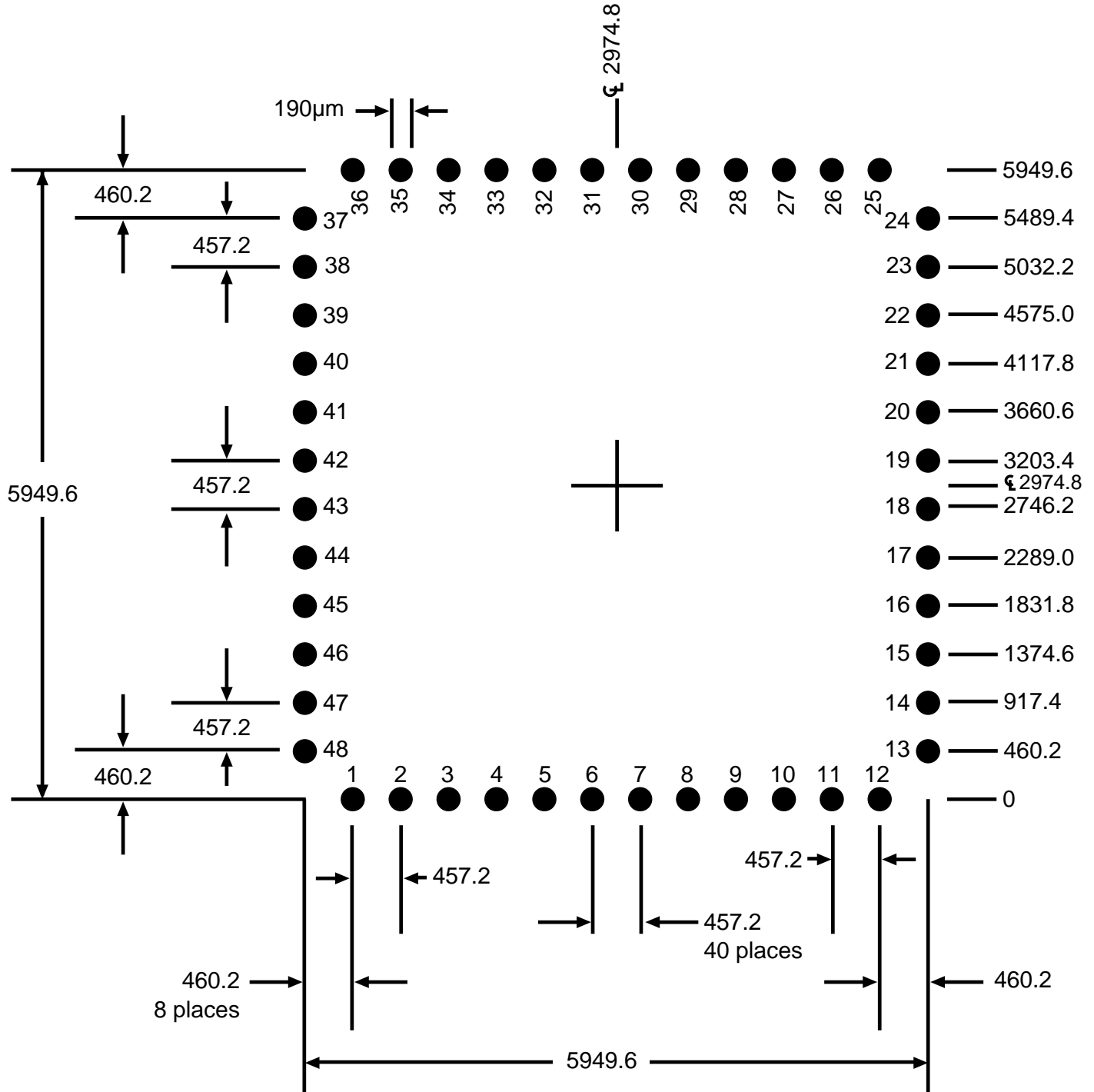
AFTER MOUNTING TO TEST BOARD

FC48D6.3E457



<u>BUMP</u>	<u>PITCH</u>	<u>BUMP DIA.</u>	<u>BODY SIZE</u>	<u>BUMP MAT'L</u>	<u>BUMP H</u>
48	457μm	178μm	6.3mm SQ	Sn63	140um

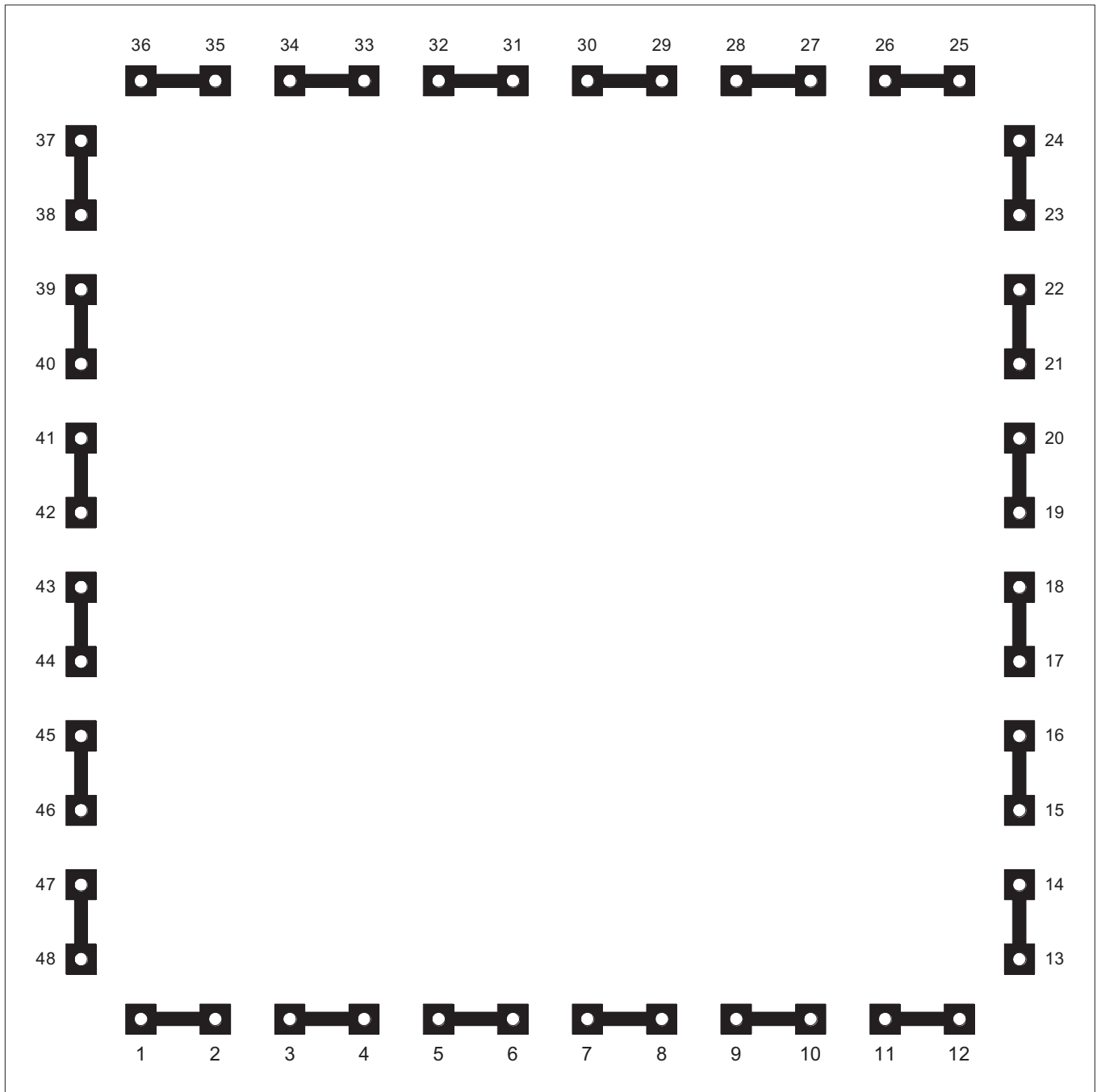
TEL 1-714-898-3830
info@topline.tv



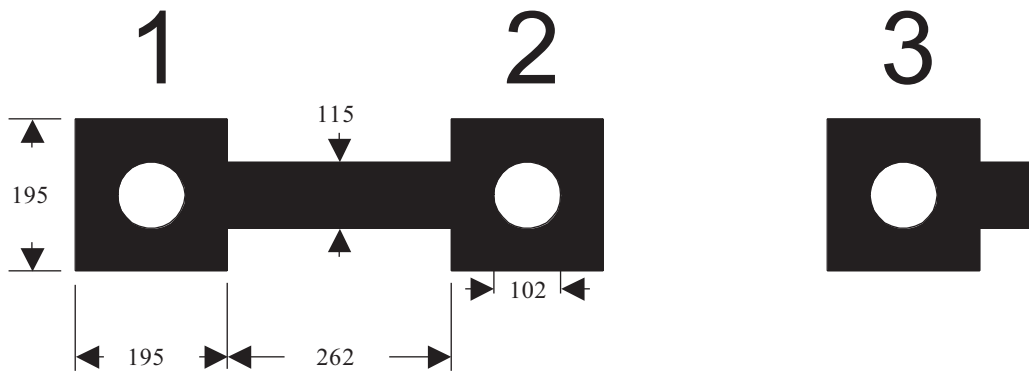
BUMP VIEW

Dimension in μm (1000μm = 1.0mm)

FC48D6.3E457-DC Flip Chip



Daisy Chain Dimensional Information



All Units are Microns.

FC48 / X,Y Coordinates

.250-Inch X .250-Inch Die Sizes

(0,0) is located at the center of the die.

Microns				Microns			
PIN#	NAME	X	Y	PIN#	NAME	X	Y
=====	=====	=====	=====	=====	=====	=====	=====
1	Pin1	-2514.6	-2974.8	25	Pin25	2514.6	2974.8
2	Pin2	-2057.4	-2974.8	26	Pin26	2057.4	2974.8
3	Pin3	-1600.2	-2974.8	27	Pin27	1600.2	2974.8
4	Pin4	-1143	-2974.8	28	Pin28	1143	2974.8
5	Pin5	-685.8	-2974.8	29	Pin29	685.8	2974.8
6	Pin6	-228.6	-2974.8	30	Pin30	228.6	2974.8
7	Pin7	228.6	-2974.8	31	Pin31	-228.6	2974.8
8	Pin8	685.8	-2974.8	32	Pin32	-685.8	2974.8
9	Pin9	1143	-2974.8	33	Pin33	-1143	2974.8
10	Pin10	1600.2	-2974.8	34	Pin34	-1600.2	2974.8
11	Pin11	2057.4	-2974.8	35	Pin35	-2057.4	2974.8
12	Pin12	2514.6	-2974.8	36	Pin36	-2514.6	2974.8
13	Pin13	2974.8	-2514.6	37	Pin37	-2974.8	2514.6
14	Pin14	2974.8	-2057.4	38	Pin38	-2974.8	2057.4
15	Pin15	2974.8	-1600.2	39	Pin39	-2974.8	1600.2
16	Pin16	2974.8	-1143	40	Pin40	-2974.8	1143
17	Pin17	2974.8	-685.8	41	Pin41	-2974.8	685.8
18	Pin18	2974.8	-228.6	42	Pin42	-2974.8	228.6
19	Pin19	2974.8	228.6	43	Pin43	-2974.8	-228.6
20	Pin20	2974.8	685.8	44	Pin44	-2974.8	-685.8
21	Pin21	2974.8	1143	45	Pin45	-2974.8	-1143
22	Pin22	2974.8	1600.2	46	Pin46	-2974.8	-1600.2
23	Pin23	2974.8	2057.4	47	Pin47	-2974.8	-2057.4
24	Pin24	2974.8	2514.6	48	Pin48	-2974.8	-2514.6