

Kokomo Semiconductor

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GM Components Holdings, LLC

PB6 Test Die

The Kokomo Semiconductor PB (Perimeter Bump or Bond) series of test die is designed to simulate the I/O of CMOS-like devices at various pad pitches. These test vehicles form the basis of a useful die standard for the evaluation of flip chip applications as a function of various bump, materials, or assembly variables. A limited subset of PB series die have been designed for wire bond evaluations. See "options available" for availability of wire bond compatible die.

The PB6 test chip is designed with I/O pads on 6 mil (152 micron) pitch located on the peripheral of the die. The 0.2-inch by 0.2-inch PB6 die contains 112 pads giving 56 daisy chain pairs.

➤ IC Fab Information

- Wafer size 5-inch (125 mm)
- Die thickness 600-650 microns
- Metal thickness 8.9k angstroms
- Metal composition Al/Cu/Si (98/1/1)
- Passivation thickness 8k angstroms
- Passivation type Nitride

➤ Die Sizes Available

- .200" x .200"
- .400" x .400"
- .400" x .600"

➤ Options Available

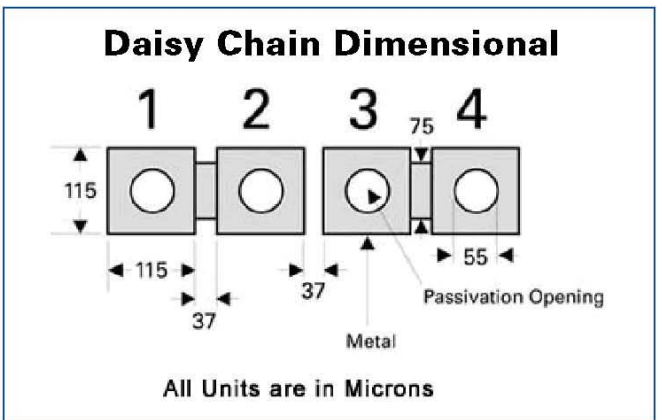
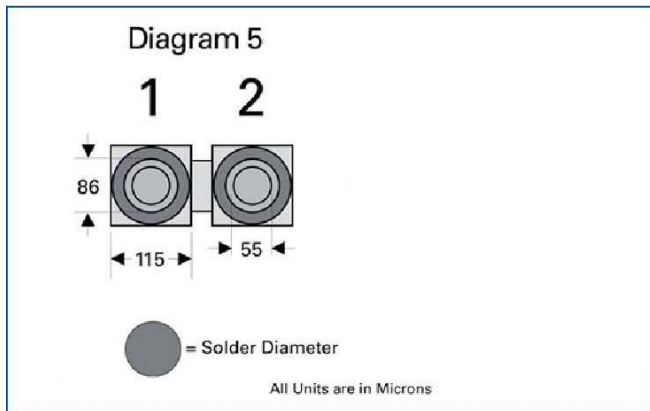
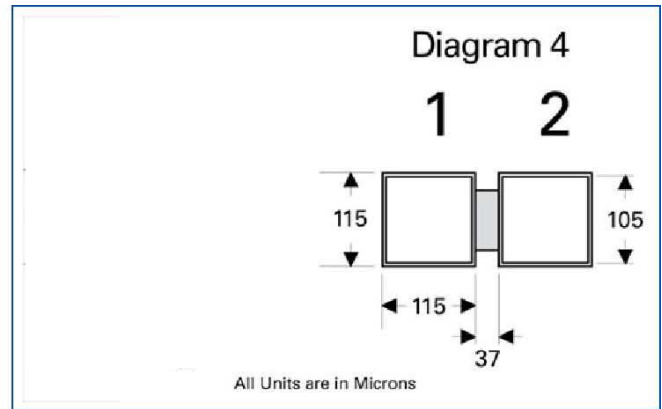
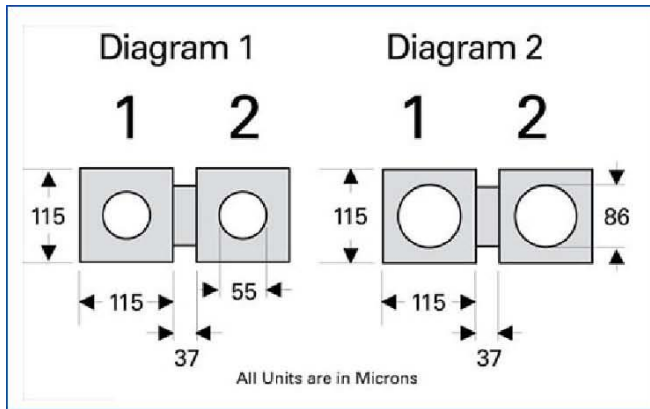
- 1) Five-inch wafer, no bumps, nitride passivation, 55-micron circular passivation openings for wire bonding (diagram 1)
- 2) Five-inch wafer, no bumps, nitride passivation, 86-micron circular passivation openings (diagram 2)
- 3) Five-inch wafer, no bumps, nitride passivation, 105-micron square passivation openings for wire bonding (diagram 4)
- 4) Five-inch wafer, FOC bump, 63Sn/37Pb solder, UBM diameter 88 microns, bump height 85 microns (diagram 5)
- 5) Five-inch wafer, FOC bump, lead free solder, UBM diameter 88 microns, bump height 85 microns (diagram 5)

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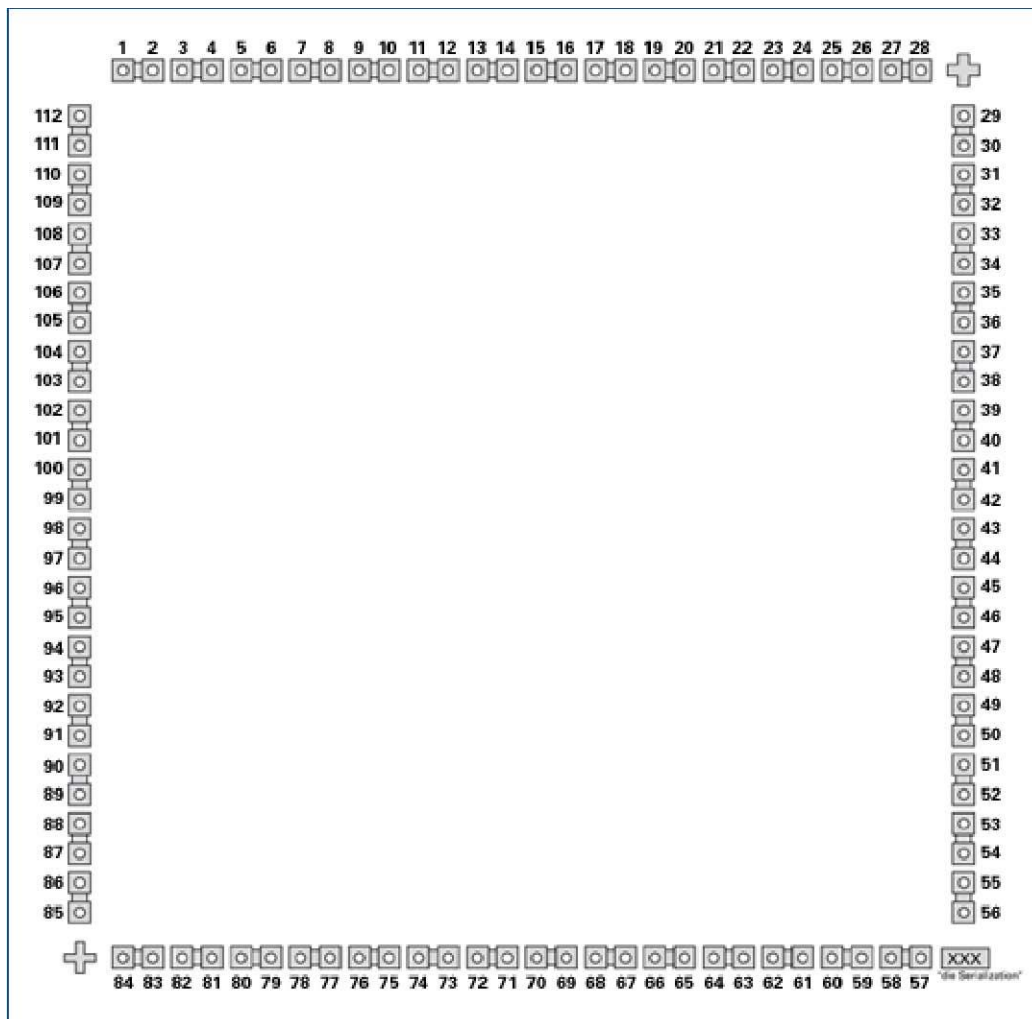


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PB6 Test Die

PB6 / X,Y Coordinates
 .200-Inch X .200-Inch Die Sizes
 Perimeter Design
 (0,0) is located at the center of the die.

Microns				Microns			
PIN#	NAME	X	Y	PIN#	NAME	X	Y
1	Pin1	-2059	2346	42	Pin42	2346	76.5
2	Pin2	-1906.5	2346	43	Pin43	2346	-76
3	Pin3	-1754	2346	44	Pin44	2346	-228.5
4	Pin4	-1601.5	2346	45	Pin45	2346	-381
5	Pin5	-1449	2346	46	Pin46	2346	-533.5
6	Pin6	-1296.5	2346	47	Pin47	2346	-686
7	Pin7	-1144	2346	48	Pin48	2346	-838.5
8	Pin8	-991.5	2346	49	Pin49	2346	-991
9	Pin9	-839	2346	50	Pin50	2346	-1143.5
10	Pin10	-686.5	2346	51	Pin51	2346	-1296
11	Pin11	-534	2346	52	Pin52	2346	-1448.5
12	Pin12	-381.5	2346	53	Pin53	2346	-1601
13	Pin13	-229	2346	54	Pin54	2346	-1753.5
14	Pin14	-76.5	2346	55	Pin55	2346	-1906
15	Pin15	76	2346	56	Pin56	2346	-2058.5
16	Pin16	228.5	2346	57	Pin57	2058.5	-2346
17	Pin17	381	2346	58	Pin58	1906	-2346
18	Pin18	533.5	2346	59	Pin59	1753.5	-2346
19	Pin19	686	2346	60	Pin60	1601	-2346
20	Pin20	838.5	2346	61	Pin61	1448.5	-2346
21	Pin21	991	2346	62	Pin62	1296	-2346
22	Pin22	1143.5	2346	63	Pin63	1143.5	-2346
23	Pin23	1296	2346	64	Pin64	991	-2346
24	Pin24	1448.5	2346	65	Pin65	838.5	-2346
25	Pin25	1601	2346	66	Pin66	686	-2346
26	Pin26	1753.5	2346	67	Pin67	533.5	-2346
27	Pin27	1906	2346	68	Pin68	381	-2346
28	Pin28	2058.5	2346	69	Pin69	228.5	-2346
29	Pin29	2346	2059	70	Pin70	76	-2346
30	Pin30	2346	1906.5	71	Pin71	-76.5	-2346
31	Pin31	2346	1754	72	Pin72	-229	-2346
32	Pin32	2346	1601.5	73	Pin73	-381.5	-2346
33	Pin33	2346	1449	74	Pin74	-534	-2346
34	Pin34	2346	1296.5	75	Pin75	-686.5	-2346
35	Pin35	2346	1144	76	Pin76	-839	-2346
36	Pin36	2346	991.5	77	Pin77	-991.5	-2346
37	Pin37	2346	839	78	Pin78	-1144	-2346
38	Pin38	2346	686.5	79	Pin79	-1296.5	-2346
39	Pin39	2346	534	80	Pin80	-1449	-2346
40	Pin40	2346	381.5	81	Pin81	-1601.5	-2346
41	Pin41	2346	229	82	Pin82	-1754	-2346

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Microns				Microns			
PIN#	NAME	X	Y	PIN#	NAME	X	Y
83	Pin83	-1906.5	-2346	98	Pin98	-2346	-76
84	Pin84	-2059	-2346	99	Pin99	-2346	76.5
85	Pin85	-2346	-2058.5	100	Pin100	-2346	229
86	Pin86	-2346	-1906	101	Pin101	-2346	381.5
87	Pin87	-2346	-1753.5	102	Pin102	-2346	534
88	Pin88	-2346	-1601	103	Pin103	-2346	686.5
89	Pin89	-2346	-1448.5	104	Pin104	-2346	839
90	Pin90	-2346	-1296	105	Pin105	-2346	991.5
91	Pin91	-2346	-1143.5	106	Pin106	-2346	1144
92	Pin92	-2346	-991	107	Pin107	-2346	1296.5
93	Pin93	-2346	-838.5	108	Pin108	-2346	1449
94	Pin94	-2346	-686	109	Pin109	-2346	1601.5
95	Pin95	-2346	-533.5	110	Pin110	-2346	1754
96	Pin96	-2346	-381	111	Pin111	-2346	1906.5
97	Pin97	-2346	-228.5	112	Pin112	-2346	2059

PB6 / X,Y Coordinates .400-Inch X .400-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	-4599	4886	27	Pin27	-634	4886
2	Pin2	-4446.5	4886	28	Pin28	-481.5	4886
3	Pin3	-4294	4886	29	Pin29	481	4886
4	Pin4	-4141.5	4886	30	Pin30	633.5	4886
5	Pin5	-3989	4886	31	Pin31	786	4886
6	Pin6	-3836.5	4886	32	Pin32	938.5	4886
7	Pin7	-3684	4886	33	Pin33	1091	4886
8	Pin8	-3531.5	4886	34	Pin34	1243.5	4886
9	Pin9	-3379	4886	35	Pin35	1396	4886
10	Pin10	-3226.5	4886	36	Pin36	1548.5	4886
11	Pin11	-3074	4886	37	Pin37	1701	4886
12	Pin12	-2921.5	4886	38	Pin38	1853.5	4886
13	Pin13	-2769	4886	39	Pin39	2006	4886
14	Pin14	-2616.5	4886	40	Pin40	2158.5	4886
15	Pin15	-2464	4886	41	Pin41	2311	4886
16	Pin16	-2311.5	4886	42	Pin42	2463.5	4886
17	Pin17	-2159	4886	43	Pin43	2616	4886
18	Pin18	-2006.5	4886	44	Pin44	2768.5	4886
19	Pin19	-1854	4886	45	Pin45	2921	4886
20	Pin20	-1701.5	4886	46	Pin46	3073.5	4886
21	Pin21	-1549	4886	47	Pin47	3226	4886
22	Pin22	-1396.5	4886	48	Pin48	3378.5	4886
23	Pin23	-1244	4886	49	Pin49	3531	4886
24	Pin24	-1091.5	4886	50	Pin50	3683.5	4886
25	Pin25	-939	4886	51	Pin51	3836	4886
26	Pin26	-786.5	4886	52	Pin52	3988.5	4886

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Microns				Microns			
PIN#	NAME	X	Y	PIN#	NAME	X	Y
53	Pin53	4141	4886	101	Pin101	4886	-2921
54	Pin54	4293.5	4886	102	Pin102	4886	-3073.5
55	Pin55	4446	4886	103	Pin103	4886	-3226
56	Pin56	4598.5	4886	104	Pin104	4886	-3378.5
57	Pin57	4886	4599	105	Pin105	4886	-3531
58	Pin58	4886	4446.5	106	Pin106	4886	-3683.5
59	Pin59	4886	4294	107	Pin107	4886	-3836
60	Pin60	4886	4141.5	108	Pin108	4886	-3988.5
61	Pin61	4886	3989	109	Pin109	4886	-4141
62	Pin62	4886	3836.5	110	Pin110	4886	-4293.5
63	Pin63	4886	3684	111	Pin111	4886	-4446
64	Pin64	4886	3531.5	112	Pin112	4886	-4598.5
65	Pin65	4886	3379	113	Pin113	4598.5	-4886
66	Pin66	4886	3226.5	114	Pin114	4446	-4886
67	Pin67	4886	3074	115	Pin115	4293.5	-4886
68	Pin68	4886	2921.5	116	Pin116	4141	-4886
69	Pin69	4886	2769	117	Pin117	3988.5	-4886
70	Pin70	4886	2616.5	118	Pin118	3836	-4886
71	Pin71	4886	2464	119	Pin119	3683.5	-4886
72	Pin72	4886	2311.5	120	Pin120	3531	-4886
73	Pin73	4886	2159	121	Pin121	3378.5	-4886
74	Pin74	4886	2006.5	122	Pin122	3226	-4886
75	Pin75	4886	1854	123	Pin123	3073.5	-4886
76	Pin76	4886	1701.5	124	Pin124	2921	-4886
77	Pin77	4886	1549	125	Pin125	2768.5	-4886
78	Pin78	4886	1396.5	126	Pin126	2616	-4886
79	Pin79	4886	1244	127	Pin127	2463.5	-4886
80	Pin80	4886	1091.5	128	Pin128	2311	-4886
81	Pin81	4886	939	129	Pin129	2158.5	-4886
82	Pin82	4886	786.5	130	Pin130	2006	-4886
83	Pin83	4886	634	131	Pin131	1853.5	-4886
84	Pin84	4886	481.5	132	Pin132	1701	-4886
85	Pin85	4886	-481	133	Pin133	1548.5	-4886
86	Pin86	4886	-633.5	134	Pin134	1396	-4886
87	Pin87	4886	-786	135	Pin135	1243.5	-4886
88	Pin88	4886	-938.5	136	Pin136	1091	-4886
89	Pin89	4886	-1091	137	Pin137	938.5	-4886
90	Pin90	4886	-1243.5	138	Pin138	786	-4886
91	Pin91	4886	-1396	139	Pin139	633.5	-4886
92	Pin92	4886	-1548.5	140	Pin140	481	-4886
93	Pin93	4886	-1701	141	Pin141	-481.5	-4886
94	Pin94	4886	-1853.5	142	Pin142	-634	-4886
95	Pin95	4886	-2006	143	Pin143	-786.5	-4886
96	Pin96	4886	-2158.5	144	Pin144	-939	-4886
97	Pin97	4886	-2311	145	Pin145	-1091.5	-4886
98	Pin98	4886	-2463.5	146	Pin146	-1244	-4886
99	Pin99	4886	-2616	147	Pin147	-1396.5	-4886
100	Pin100	4886	-2768.5	148	Pin148	-1549	-4886

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Microns				Microns			
PIN#	NAME	X	Y	PIN#	NAME	X	Y
149	Pin149	-1701.5	-4886	187	Pin187	-4886	-1853.5
150	Pin150	-1854	-4886	188	Pin188	-4886	-1701
151	Pin151	-2006.5	-4886	189	Pin189	-4886	-1548.5
152	Pin152	-2159	-4886	190	Pin190	-4886	-1396
153	Pin153	-2311.5	-4886	191	Pin191	-4886	-1243.5
154	Pin154	-2464	-4886	192	Pin192	-4886	-1091
155	Pin155	-2616.5	-4886	193	Pin193	-4886	-938.5
156	Pin156	-2769	-4886	194	Pin194	-4886	-786
157	Pin157	-2921.5	-4886	195	Pin195	-4886	-633.5
158	Pin158	-3074	-4886	196	Pin196	-4886	-481
159	Pin159	-3226.5	-4886	197	Pin197	-4886	481.5
160	Pin160	-3379	-4886	198	Pin198	-4886	634
161	Pin161	-3531.5	-4886	199	Pin199	-4886	786.5
162	Pin162	-3684	-4886	200	Pin200	-4886	939
163	Pin163	-3836.5	-4886	201	Pin201	-4886	1091.5
164	Pin164	-3989	-4886	202	Pin202	-4886	1244
165	Pin165	-4141.5	-4886	203	Pin203	-4886	1396.5
166	Pin166	-4294	-4886	204	Pin204	-4886	1549
167	Pin167	-4446.5	-4886	205	Pin205	-4886	1701.5
168	Pin168	-4599	-4886	206	Pin206	-4886	1854
169	Pin169	-4886	-4598.5	207	Pin207	-4886	2006.5
170	Pin170	-4886	-4446	208	Pin208	-4886	2159
171	Pin171	-4886	-4293.5	209	Pin209	-4886	2311.5
172	Pin172	-4886	-4141	210	Pin210	-4886	2464
173	Pin173	-4886	-3988.5	211	Pin211	-4886	2616.5
174	Pin174	-4886	-3836	212	Pin212	-4886	2769
175	Pin175	-4886	-3683.5	213	Pin213	-4886	2921.5
176	Pin176	-4886	-3531	214	Pin214	-4886	3074
177	Pin177	-4886	-3378.5	215	Pin215	-4886	3226.5
178	Pin178	-4886	-3226	216	Pin216	-4886	3379
179	Pin179	-4886	-3073.5	217	Pin217	-4886	3531.5
180	Pin180	-4886	-2921	218	Pin218	-4886	3684
181	Pin181	-4886	-2768.5	219	Pin219	-4886	3836.5
182	Pin182	-4886	-2616	220	Pin220	-4886	3989
183	Pin183	-4886	-2463.5	221	Pin221	-4886	4141.5
184	Pin184	-4886	-2311	222	Pin222	-4886	4294
185	Pin185	-4886	-2158.5	223	Pin223	-4886	4446.5
186	Pin186	-4886	-2006	224	Pin224	-4886	4599

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PB6 Test Die

PB6 / X,Y Coordinates .400-Inch X .600-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	-4599	7426	48	Pin48	3378.5	7426
2	Pin2	-4446.5	7426	49	Pin49	3531	7426
3	Pin3	-4294	7426	50	Pin50	3683.5	7426
4	Pin4	-4141.5	7426	51	Pin51	3836	7426
5	Pin5	-3989	7426	52	Pin52	3988.5	7426
6	Pin6	-3836.5	7426	53	Pin53	4141	7426
7	Pin7	-3684	7426	54	Pin54	4293.5	7426
8	Pin8	-3531.5	7426	55	Pin55	4446	7426
9	Pin9	-3379	7426	56	Pin56	4598.5	7426
10	Pin10	-3226.5	7426	57	Pin57	4886	7139
11	Pin11	-3074	7426	58	Pin58	4886	6986.5
12	Pin12	-2921.5	7426	59	Pin59	4886	6834
13	Pin13	-2769	7426	60	Pin60	4886	6681.5
14	Pin14	-2616.5	7426	61	Pin61	4886	6529
15	Pin15	-2464	7426	62	Pin62	4886	6376.5
16	Pin16	-2311.5	7426	63	Pin63	4886	6224
17	Pin17	-2159	7426	64	Pin64	4886	6071.5
18	Pin18	-2006.5	7426	65	Pin65	4886	5919
19	Pin19	-1854	7426	66	Pin66	4886	5766.5
20	Pin20	-1701.5	7426	67	Pin67	4886	5614
21	Pin21	-1549	7426	68	Pin68	4886	5461.5
22	Pin22	-1396.5	7426	69	Pin69	4886	5309
23	Pin23	-1244	7426	70	Pin70	4886	5156.5
24	Pin24	-1091.5	7426	71	Pin71	4886	5004
25	Pin25	-939	7426	72	Pin72	4886	4851.5
26	Pin26	-786.5	7426	73	Pin73	4886	4699
27	Pin27	-634	7426	74	Pin74	4886	4546.5
28	Pin28	-481.5	7426	75	Pin75	4886	4394
29	Pin29	481	7426	76	Pin76	4886	4241.5
30	Pin30	633.5	7426	77	Pin77	4886	4089
31	Pin31	786	7426	78	Pin78	4886	3936.5
32	Pin32	938.5	7426	79	Pin79	4886	3784
33	Pin33	1091	7426	80	Pin80	4886	3631.5
34	Pin34	1243.5	7426	81	Pin81	4886	3479
35	Pin35	1396	7426	82	Pin82	4886	3326.5
36	Pin36	1548.5	7426	83	Pin83	4886	3174
37	Pin37	1701	7426	84	Pin84	4886	3021.5
38	Pin38	1853.5	7426	85	Pin85	4886	2059
39	Pin39	2006	7426	86	Pin86	4886	1906.5
40	Pin40	2158.5	7426	87	Pin87	4886	1754
41	Pin41	2311	7426	88	Pin88	4886	1601.5
42	Pin42	2463.5	7426	89	Pin89	4886	1449
43	Pin43	2616	7426	90	Pin90	4886	1296.5
44	Pin44	2768.5	7426	91	Pin91	4886	1144
45	Pin45	2921	7426	92	Pin92	4886	991.5
46	Pin46	3073.5	7426	93	Pin93	4886	839
47	Pin47	3226	7426	94	Pin94	4886	686.5

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Microns				Microns			
PIN#	NAME	X	Y	PIN#	NAME	X	Y
95	Pin95	4886	534	145	Pin145	3988.5	-7426
96	Pin96	4886	381.5	146	Pin146	3836	-7426
97	Pin97	4886	229	147	Pin147	3683.5	-7426
98	Pin98	4886	76.5	148	Pin148	3531	-7426
99	Pin99	4886	-76	149	Pin149	3378.5	-7426
100	Pin100	4886	-228.5	150	Pin150	3226	-7426
101	Pin101	4886	-381	151	Pin151	3073.5	-7426
102	Pin102	4886	-533.5	152	Pin152	2921	-7426
103	Pin103	4886	-686	153	Pin153	2768.5	-7426
104	Pin104	4886	-838.5	154	Pin154	2616	-7426
105	Pin105	4886	-991	155	Pin155	2463.5	-7426
106	Pin106	4886	-1143.5	156	Pin156	2311	-7426
107	Pin107	4886	-1296	157	Pin157	2158.5	-7426
108	Pin108	4886	-1448.5	158	Pin158	2006	-7426
109	Pin109	4886	-1601	159	Pin159	1853.5	-7426
110	Pin110	4886	-1753.5	160	Pin160	1701	-7426
111	Pin111	4886	-1906	161	Pin161	1548.5	-7426
112	Pin112	4886	-2058.5	162	Pin162	1396	-7426
113	Pin113	4886	-3021	163	Pin163	1243.5	-7426
114	Pin114	4886	-3173.5	164	Pin164	1091	-7426
115	Pin115	4886	-3326	165	Pin165	938.5	-7426
116	Pin116	4886	-3478.5	166	Pin166	786	-7426
117	Pin117	4886	-3631	167	Pin167	633.5	-7426
118	Pin118	4886	-3783.5	168	Pin168	481	-7426
119	Pin119	4886	-3936	169	Pin169	-481.5	-7426
120	Pin120	4886	-4088.5	170	Pin170	-634	-7426
121	Pin121	4886	-4241	171	Pin171	-786.5	-7426
122	Pin122	4886	-4393.5	172	Pin172	-939	-7426
123	Pin123	4886	-4546	173	Pin173	-1091.5	-7426
124	Pin124	4886	-4698.5	174	Pin174	-1244	-7426
125	Pin125	4886	-4851	175	Pin175	-1396.5	-7426
126	Pin126	4886	-5003.5	176	Pin176	-1549	-7426
127	Pin127	4886	-5156	177	Pin177	-1701.5	-7426
128	Pin128	4886	-5308.5	178	Pin178	-1854	-7426
129	Pin129	4886	-5461	179	Pin179	-2006.5	-7426
130	Pin130	4886	-5613.5	180	Pin180	-2159	-7426
131	Pin131	4886	-5766	181	Pin181	-2311.5	-7426
132	Pin132	4886	-5918.5	182	Pin182	-2464	-7426
133	Pin133	4886	-6071	183	Pin183	-2616.5	-7426
134	Pin134	4886	-6223.5	184	Pin184	-2769	-7426
135	Pin135	4886	-6376	185	Pin185	-2921.5	-7426
136	Pin136	4886	-6528.5	186	Pin186	-3074	-7426
137	Pin137	4886	-6681	187	Pin187	-3226.5	-7426
138	Pin138	4886	-6833.5	188	Pin188	-3379	-7426
139	Pin139	4886	-6986	189	Pin189	-3531.5	-7426
140	Pin140	4886	-7138.5	190	Pin190	-3684	-7426
141	Pin141	4598.5	-7426	191	Pin191	-3836.5	-7426
142	Pin142	4446	-7426	192	Pin192	-3989	-7426
143	Pin143	4293.5	-7426	193	Pin193	-4141.5	-7426
144	Pin144	4141	-7426	194	Pin194	-4294	-7426

Kokomo Semiconductor

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GM Components Holdings, LLC

PB6 Test Die

Microns				Microns			
PIN#	NAME	X	Y	PIN#	NAME	X	Y
195	Pin195	-4446.5	-7426	238	Pin238	-4886	-76
196	Pin196	-4599	-7426	239	Pin239	-4886	76.5
197	Pin197	-4886	-7138.5	240	Pin240	-4886	229
198	Pin198	-4886	-6986	241	Pin241	-4886	381.5
199	Pin199	-4886	-6833.5	242	Pin242	-4886	534
200	Pin200	-4886	-6681	243	Pin243	-4886	686.5
201	Pin201	-4886	-6528.5	244	Pin244	-4886	839
202	Pin202	-4886	-6376	245	Pin245	-4886	991.5
203	Pin203	-4886	-6223.5	246	Pin246	-4886	1144
204	Pin204	-4886	-6071	247	Pin247	-4886	1296.5
205	Pin205	-4886	-5918.5	248	Pin248	-4886	1449
206	Pin206	-4886	-5766	249	Pin249	-4886	1601.5
207	Pin207	-4886	-5613.5	250	Pin250	-4886	1754
208	Pin208	-4886	-5461	251	Pin251	-4886	1906.5
209	Pin209	-4886	-5308.5	252	Pin252	-4886	2059
210	Pin210	-4886	-5156	253	Pin253	-4886	3021.5
211	Pin211	-4886	-5003.5	254	Pin254	-4886	3174
212	Pin212	-4886	-4851	255	Pin255	-4886	3326.5
213	Pin213	-4886	-4698.5	256	Pin256	-4886	3479
214	Pin214	-4886	-4546	257	Pin257	-4886	3631.5
215	Pin215	-4886	-4393.5	258	Pin258	-4886	3784
216	Pin216	-4886	-4241	259	Pin259	-4886	3936.5
217	Pin217	-4886	-4088.5	260	Pin260	-4886	4089
218	Pin218	-4886	-3936	261	Pin261	-4886	4241.5
219	Pin219	-4886	-3783.5	262	Pin262	-4886	4394
220	Pin220	-4886	-3631	263	Pin263	-4886	4546.5
221	Pin221	-4886	-3478.5	264	Pin264	-4886	4699
222	Pin222	-4886	-3326	265	Pin265	-4886	4851.5
223	Pin223	-4886	-3173.5	266	Pin266	-4886	5004
224	Pin224	-4886	-3021	267	Pin267	-4886	5156.5
225	Pin225	-4886	-2058.5	268	Pin268	-4886	5309
226	Pin226	-4886	-1906	269	Pin269	-4886	5461.5
227	Pin227	-4886	-1753.5	270	Pin270	-4886	5614
228	Pin228	-4886	-1601	271	Pin271	-4886	5766.5
229	Pin229	-4886	-1448.5	272	Pin272	-4886	5919
230	Pin230	-4886	-1296	273	Pin273	-4886	6071.5
231	Pin231	-4886	-1143.5	274	Pin274	-4886	6224
232	Pin232	-4886	-991	275	Pin275	-4886	6376.5
233	Pin233	-4886	-838.5	276	Pin276	-4886	6529
234	Pin234	-4886	-686	277	Pin277	-4886	6681.5
235	Pin235	-4886	-533.5	278	Pin278	-4886	6834
236	Pin236	-4886	-381	279	Pin279	-4886	6986.5
237	Pin237	-4886	-228.5	280	Pin280	-4886	7139

The test die offered on this web site are to be used to characterize assembly processes and materials. Applying the data from the test die to a functional system is the responsibility of the user. Kokomo Semiconductor makes no warranty, express or implied including the implied warranties of merchantability and fitness for a particular purpose, that the user's system designed using that data will perform as intended by the user.