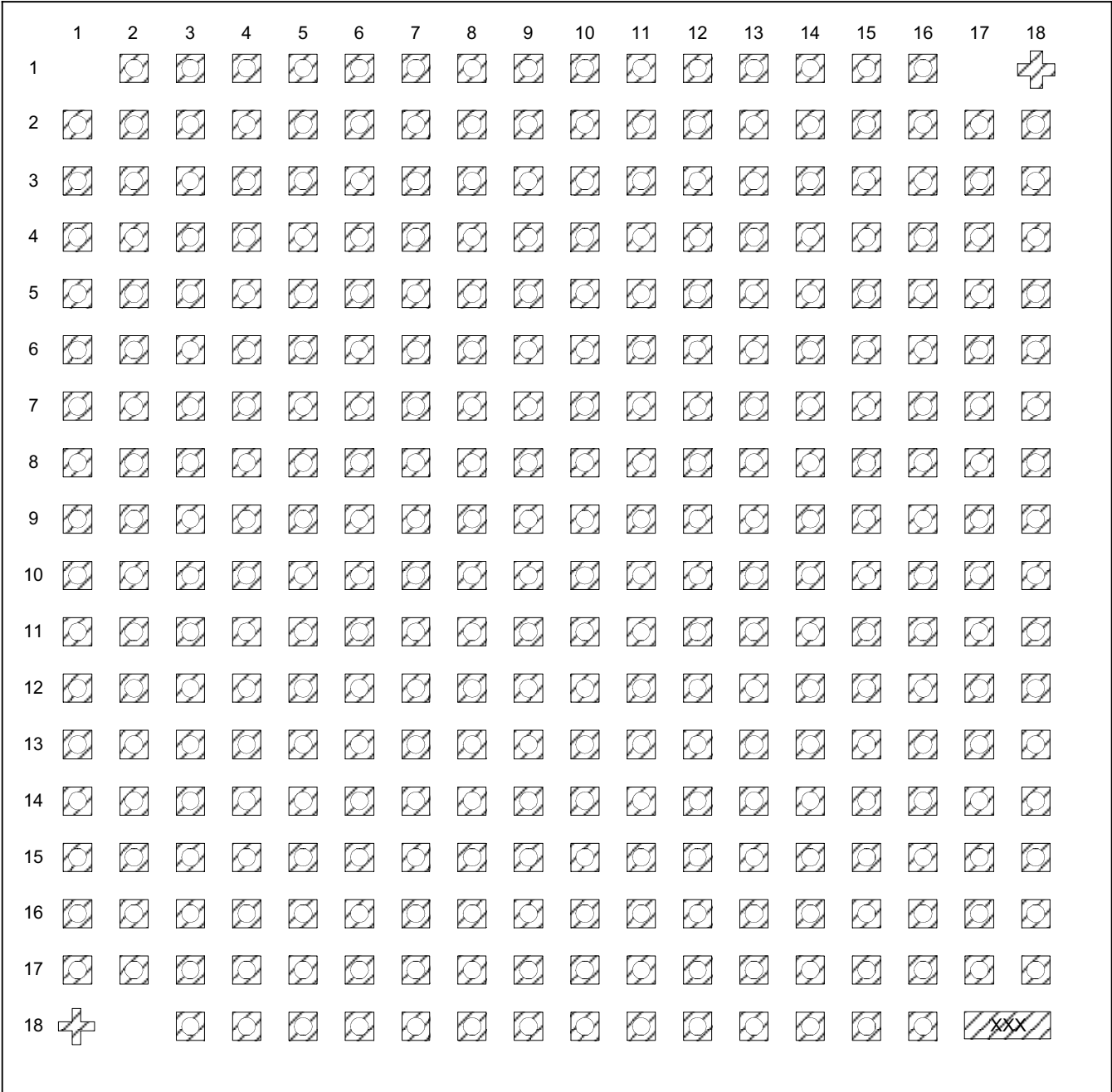
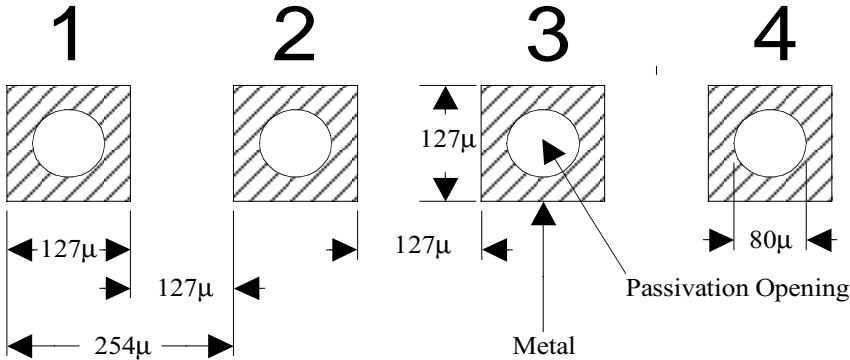


FCQ317 - FA10 Quartz Test Die for Underfill Experiments



Pad Dimensional Information



FCQ317 - FA10 / X,Y Coordinates .200-Inch X .200-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	-1905	2159	46	Pin46	889	1651
2	Pin2	-1651	2159	47	Pin47	1143	1651
3	Pin3	-1397	2159	48	Pin48	1397	1651
4	Pin4	-1143	2159	49	Pin49	1651	1651
5	Pin5	-889	2159	50	Pin50	1905	1651
6	Pin6	-635	2159	51	Pin51	2159	1651
7	Pin7	-381	2159	52	Pin52	-2159	1397
8	Pin8	-127	2159	53	Pin53	-1905	1397
9	Pin9	127	2159	54	Pin54	-1651	1397
10	Pin10	381	2159	55	Pin55	-1397	1397
11	Pin11	635	2159	56	Pin56	-1143	1397
12	Pin12	889	2159	57	Pin57	-889	1397
13	Pin13	1143	2159	58	Pin58	-635	1397
14	Pin14	1397	2159	59	Pin59	-381	1397
15	Pin15	1651	2159	60	Pin60	-127	1397
16	Pin16	-2159	1905	61	Pin61	127	1397
17	Pin17	-1905	1905	62	Pin62	381	1397
18	Pin18	-1651	1905	63	Pin63	635	1397
19	Pin19	-1397	1905	64	Pin64	889	1397
20	Pin20	-1143	1905	65	Pin65	1143	1397
21	Pin21	-889	1905	66	Pin66	1397	1397
22	Pin22	-635	1905	67	Pin67	1651	1397
23	Pin23	-381	1905	68	Pin68	1905	1397
24	Pin24	-127	1905	69	Pin69	2159	1397
25	Pin25	127	1905	70	Pin70	-2159	1143
26	Pin26	381	1905	71	Pin71	-1905	1143
27	Pin27	635	1905	72	Pin72	-1651	1143
28	Pin28	889	1905	73	Pin73	-1397	1143
29	Pin29	1143	1905	74	Pin74	-1143	1143
30	Pin30	1397	1905	75	Pin75	-889	1143
31	Pin31	1651	1905	76	Pin76	-635	1143
32	Pin32	1905	1905	77	Pin77	-381	1143
33	Pin33	2159	1905	78	Pin78	-127	1143
34	Pin34	-2159	1651	79	Pin79	127	1143
35	Pin35	-1905	1651	80	Pin80	381	1143
36	Pin36	-1651	1651	81	Pin81	635	1143
37	Pin37	-1397	1651	82	Pin82	889	1143
38	Pin38	-1143	1651	83	Pin83	1143	1143
39	Pin39	-889	1651	84	Pin84	1397	1143
40	Pin40	-635	1651	85	Pin85	1651	1143
41	Pin41	-381	1651	86	Pin86	1905	1143
42	Pin42	-127	1651	87	Pin87	2159	1143
43	Pin43	127	1651	88	Pin88	-2159	889
44	Pin44	381	1651	89	Pin89	-1905	889
45	Pin45	635	1651	90	Pin90	-1651	889

Quartz Test Die for Underfill Experiments

Microns				Microns			
PIN#	NAME	X	Y	PIN#	NAME	X	Y
=====	=====	=====	=====	=====	=====	=====	=====
91	Pin91	-1397	889	141	Pin141	2159	381
92	Pin92	-1143	889	142	Pin142	-2159	127
93	Pin93	-889	889	143	Pin143	-1905	127
94	Pin94	-635	889	144	Pin144	-1651	127
95	Pin95	-381	889	145	Pin145	-1397	127
96	Pin96	-127	889	146	Pin146	-1143	127
97	Pin97	127	889	147	Pin147	-889	127
98	Pin98	381	889	148	Pin148	-635	127
99	Pin99	635	889	149	Pin149	-381	127
100	Pin100	889	889	150	Pin150	-127	127
101	Pin101	1143	889	151	Pin151	127	127
102	Pin102	1397	889	152	Pin152	381	127
103	Pin103	1651	889	153	Pin153	635	127
104	Pin104	1905	889	154	Pin154	889	127
105	Pin105	2159	889	155	Pin155	1143	127
106	Pin106	-2159	635	156	Pin156	1397	127
107	Pin107	-1905	635	157	Pin157	1651	127
108	Pin108	-1651	635	158	Pin158	1905	127
109	Pin109	-1397	635	159	Pin159	2159	127
110	Pin110	-1143	635	160	Pin160	-2159	-127
111	Pin111	-889	635	161	Pin161	-1905	-127
112	Pin112	-635	635	162	Pin162	-1651	-127
113	Pin113	-381	635	163	Pin163	-1397	-127
114	Pin114	-127	635	164	Pin164	-1143	-127
115	Pin115	127	635	165	Pin165	-889	-127
116	Pin116	381	635	166	Pin166	-635	-127
117	Pin117	635	635	167	Pin167	-381	-127
118	Pin118	889	635	168	Pin168	-127	-127
119	Pin119	1143	635	169	Pin169	127	-127
120	Pin120	1397	635	170	Pin170	381	-127
121	Pin121	1651	635	171	Pin171	635	-127
122	Pin122	1905	635	172	Pin172	889	-127
123	Pin123	2159	635	173	Pin173	1143	-127
124	Pin124	-2159	381	174	Pin174	1397	-127
125	Pin125	-1905	381	175	Pin175	1651	-127
126	Pin126	-1651	381	176	Pin176	1905	-127
127	Pin127	-1397	381	177	Pin177	2159	-127
128	Pin128	-1143	381	178	Pin178	-2159	-381
129	Pin129	-889	381	179	Pin179	-1905	-381
130	Pin130	-635	381	180	Pin180	-1651	-381
131	Pin131	-381	381	181	Pin181	-1397	-381
132	Pin132	-127	381	182	Pin182	-1143	-381
133	Pin133	127	381	183	Pin183	-889	-381
134	Pin134	381	381	184	Pin184	-635	-381
135	Pin135	635	381	185	Pin185	-381	-381
136	Pin136	889	381	186	Pin186	-127	-381
137	Pin137	1143	381	187	Pin187	127	-381
138	Pin138	1397	381	188	Pin188	381	-381
139	Pin139	1651	381	189	Pin189	635	-381
140	Pin140	1905	381	190	Pin190	889	-381

Quartz Test Die for Underfill Experiments

Microns				Microns			
PIN#	NAME	X	Y	PIN#	NAME	X	Y
=====	=====	=====	=====	=====	=====	=====	=====
191	Pin191	1143	-381	241	Pin241	127	-1143
192	Pin192	1397	-381	242	Pin242	381	-1143
193	Pin193	1651	-381	243	Pin243	635	-1143
194	Pin194	1905	-381	244	Pin244	889	-1143
195	Pin195	2159	-381	245	Pin245	1143	-1143
196	Pin196	-2159	-635	246	Pin246	1397	-1143
197	Pin197	-1905	-635	247	Pin247	1651	-1143
198	Pin198	-1651	-635	248	Pin248	1905	-1143
199	Pin199	-1397	-635	249	Pin249	2159	-1143
200	Pin200	-1143	-635	250	Pin250	-2159	-1397
201	Pin201	-889	-635	251	Pin251	-1905	-1397
202	Pin202	-635	-635	252	Pin252	-1651	-1397
203	Pin203	-381	-635	253	Pin253	-1397	-1397
204	Pin204	-127	-635	254	Pin254	-1143	-1397
205	Pin205	127	-635	255	Pin255	-889	-1397
206	Pin206	381	-635	256	Pin256	-635	-1397
207	Pin207	635	-635	257	Pin257	-381	-1397
208	Pin208	889	-635	258	Pin258	-127	-1397
209	Pin209	1143	-635	259	Pin259	127	-1397
210	Pin210	1397	-635	260	Pin260	381	-1397
211	Pin211	1651	-635	261	Pin261	635	-1397
212	Pin212	1905	-635	262	Pin262	889	-1397
213	Pin213	2159	-635	263	Pin263	1143	-1397
214	Pin214	-2159	-889	264	Pin264	1397	-1397
215	Pin215	-1905	-889	265	Pin265	1651	-1397
216	Pin216	-1651	-889	266	Pin266	1905	-1397
217	Pin217	-1397	-889	267	Pin267	2159	-1397
218	Pin218	-1143	-889	268	Pin268	-2159	-1651
219	Pin219	-889	-889	269	Pin269	-1905	-1651
220	Pin220	-635	-889	270	Pin270	-1651	-1651
221	Pin221	-381	-889	271	Pin271	-1397	-1651
222	Pin222	-127	-889	272	Pin272	-1143	-1651
223	Pin223	127	-889	273	Pin273	-889	-1651
224	Pin224	381	-889	274	Pin274	-635	-1651
225	Pin225	635	-889	275	Pin275	-381	-1651
226	Pin226	889	-889	276	Pin276	-127	-1651
227	Pin227	1143	-889	277	Pin277	127	-1651
228	Pin228	1397	-889	278	Pin278	381	-1651
229	Pin229	1651	-889	279	Pin279	635	-1651
230	Pin230	1905	-889	280	Pin280	889	-1651
231	Pin231	2159	-889	281	Pin281	1143	-1651
232	Pin232	-2159	-1143	282	Pin282	1397	-1651
233	Pin233	-1905	-1143	283	Pin283	1651	-1651
234	Pin234	-1651	-1143	284	Pin284	1905	-1651
235	Pin235	-1397	-1143	285	Pin285	2159	-1651
236	Pin236	-1143	-1143	286	Pin286	-2159	-1905
237	Pin237	-889	-1143	287	Pin287	-1905	-1905
238	Pin238	-635	-1143	288	Pin288	-1651	-1905
239	Pin239	-381	-1143	289	Pin289	-1397	-1905
240	Pin240	-127	-1143	290	Pin290	-1143	-1905

Quartz Test Die for Underfill Experiments

Microns			
PIN#	NAME	X	Y
291	Pin291	-889	-1905
292	Pin292	-635	-1905
293	Pin293	-381	-1905
294	Pin294	-127	-1905
295	Pin295	127	-1905
296	Pin296	381	-1905
297	Pin297	635	-1905
298	Pin298	889	-1905
299	Pin299	1143	-1905
300	Pin300	1397	-1905
301	Pin301	1651	-1905
302	Pin302	1905	-1905
303	Pin303	2159	-1905
304	Pin304	-1651	-2159

Microns			
PIN#	NAME	X	Y
305	Pin305	-1397	-2159
306	Pin306	-1143	-2159
307	Pin307	-889	-2159
308	Pin308	-635	-2159
309	Pin309	-381	-2159
310	Pin310	-127	-2159
311	Pin311	127	-2159
312	Pin312	381	-2159
313	Pin313	635	-2159
314	Pin314	889	-2159
315	Pin315	1143	-2159
316	Pin316	1397	-2159
317	Pin317	1651	-2159

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. TopLine 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.

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