

Amkor Package Capability

Laminate Products

Package Type & Body Size	Leadcount and Pitch	Factory
CABGA		
5.0 x 5.0	40, 48, 56, 64	J1, K4, P3, C1
5.0 x 10.0	20	K4, P3, C1
6.0 x 6.0	36, 36, 48, 49, 56, 64, 88 100	J1, K4, P3, C1
6.0 x 8.0	24, 48	J1, K4, P3, C1
7.0 x 7.0	49, 64, 84	J1, K4, P3, C1
7.0 x 9.5	24	K4 & P3
8.0 x 8.0	64, 72, 73, 81	J1, K4, P3, C1
9.0 x 9.0	64, 80, 81, 100	J1, K4, P3, C1
10.0 x 10.0	64, 81, 96, 97, 100, 104, 128	J1, K4, P3, C1
11.0 x 11.0	80, 100, 109, 128	J1, K4, P3, C1
12.0 x 12.0	121, 144, 160, 180, 196, 208	J1, K4, P3, C1
13.0 x 13.0	144, 160, 176, 200, 224	J1, K4, P3, C1
14.0 x 14.0	169, 192, 193	J1, K4, P3, C1
15.0 x 15.0	196, 208	J1, K4, P3, C1
16.0 x 16.0	324	J1, K4, P3, C1
17.0 x 17.0	208, 224, 208, 256, 256	J1, K4, P3, C1
18.0 x 18.0	168, 320	J1, K4, P3, C1
19.0 x 19.0	256, 288, 324	J1, K4, P3, C1
21.0 x 21.0	272	J1, K4, P3, C1

CTBGA/CVBGA		
5.0 x 5.0	40, 48, 56, 60, 64	J1, K4, P3, C1
6.0 x 6.0	49, 49, 56, 64, 84, 88, 100	J1, K4, P3, C1
6.0 x 8.0	48	T3, K4, P3, C1
6.0 x 9.0	48	T3, K4, P3, C1
6.0 x 12.0	44	J1, K4, P3, C1
7.0 x 7.0	49, 64, 80, 84, 108	J1, K4, P3, C1
8.0 x 8.0	64, 81, 96, 108, 132	J1, K4, P3, C1
9.0 x 9.0	81, 100	J1, K4, P3, C1
10.0 x 10.0	100, 144	J1, K4, P3, C1
11.0 x 11.0	100, 128	J1, K4, P3, C1
12.0 x 12.0	160, 196, 288	J1, K4, P3, C1
13.0 x 13.0	144, 176, 224	J1, K4, P3, C1
14.0 x 14.0	192	J1, K4, P3, C1
15.0 x 15.0	208	J1, K4, P3, C1

Note: For CABGA/CTBGA/CVBGA, all ball counts for a given package body size are NOT always available in each factory location.

PSvfBGA		
10.0 x 10.0	233	K4
12.0 x 12.0	244, 305, 320, 343, 376, 389	K4
14.0 x 14.0	353, 373, 409, 440, 447, 544	K4
15.0 x 15.0	416, 492, 604	K4

Legend: 0.5 mm pitch 0.65 mm pitch 0.8 mm pitch 1.0 mm pitch 1.27 mm pitch 1.5 mm pitch Future packages

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fc CSP		
5.0 x 5.0	48, 64	P3
6.0 x 6.0	49, 64, 84	P3
7.0 x 7.0	49, 64, 80, 108	P3
8.0 x 8.0	49, 64, 81, 96, 132, 169, 201	P3
9.0 x 9.0	64, 100, 156, 233	P3
10.0 x 10.0	81, 100, 144, 180, 293	P3
11.0 x 11.0	100, 169	P3
12.0 x 12.0	121, 196	P3
13.0 x 13.0	144, 192, 320, 336	P3
14.0 x 14.0	169	P3
15.0 x 15.0	196	P3
HPBGA		
35.0 x 35.0	480, 580	K4 & P3
40.0 x 40.0	528, 680, 792	K4 & P3
42.5 x 42.5	540, 560	K4 & P3
45.0 x 45.0	600, 640, 696, 1036	P3
47.5 x 47.5	696	P3
PBGA and MCM-PBGA		
13.0 x 13.0	144	P3
14.0 x 22.0	119, 153	P3
15.0 x 15.0	120, 121, 156, 160, 176, 196	K4 & P3
17.0 x 17.0	144, 192, 208, 248, 252, 256	K4 & P3
19.0 x 19.0	240, 289, 305, 324	K4
23.0 x 23.0	169, 192, 208, 217, 240, 241, 249, 256, 264, 324, 376	K4
23.0 x 23.0	208, 233, 241, 244, 320, 323, 360, 456	K4
23.0 x 23.0	169, 177, 208, 217, 233, 249, 288, 324, 360, 388, 456, 484	P3
27.0 x 27.0	225, 256, 272, 264, 292, 300, 316, 320, 324, 328, 336, 356, 416, 452, 456, 484	K4
27.0 x 27.0	225, 256, 272, 292, 300, 316, 324, 328, 352, 352, 356, 676	K4
27.0 x 27.0	225, 244, 256, 272, 284, 300, 316, 318, 324, 328, 348, 361, 456, 484	P3
27.0 x 27.0	336, 348, 356, 361, 388, 400, 416, 600, 676	P3
27.0 x 27.0	376	C3
31.0 x 31.0	304, 329, 353, 360, 385, 421	K4
31.0 x 31.0	304, 329, 421, 516, 604, 608, 692, 896	K4
31.0 x 31.0	304, 329, 353, 385, 409, 433, 448, 516, 556, 640, 676, 900	P3
35.0 x 35.0	313, 420, 456	C3
35.0 x 35.0	313, 340, 352, 372, 388, 420, 456, 468, 492, 580, 680, 728, 820, 1156	K4
35.0 x 35.0	313, 340, 352, 371, 387, 388, 420, 456, 465, 468, 492, 516, 525, 544, 552, 580, 672, 728, 729, 740, 788, 1152	K4
35.0 x 35.0	313, 352, 388, 404, 436, 452, 456, 492, 496, 520, 548, 552, 580	P3
35.0 x 35.0	313, 452, 456	C3
37.5 x 37.5	500, 524, 529, 553, 625, 627, 844, 851, 863, 974	K4
40.0 x 40.0	432, 503, 557, 564, 569, 596, 658, 713, 776, 792, 809, 928, 1005	K4

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SuperBGA®		
13.0 x 13.0	80	K4 & P3
17.0 x 17.0	88	K4
19.0 x 19.0	159	K4 & P3
23.0 x 23.0	168	K4 & P3
27.0 x 27.0	204, 256, 290, 352	K4 & P3
29.0 x 29.0	272	K4 & P3
31.0 x 31.0	304, 384, 416	K4 & P3
35.0 x 35.0	313, 352, 356, 388, 408, 420, 456, 480, 480, 503, 516, 580, 1156	K4 & P3
37.5 x 37.5	480	K4 & P3
40.0 x 40.0	432, 520, 560, 596, 600, 680, 728	K4 & P3
40.0 x 40.0	776, 792, 992	P3
42.5 x 42.5	540, 560, 860	K4 & P3
45.0 x 45.0	596, 600, 652, 656, 731, 900, 1036	K4 & P3
SuperFC®		
		Factory*
17.0 x 17.0	[252]	
19.0 x 19.0	320	
21.0 x 21.0	289, 389	P3, T3
23.0 x 23.0	[480], 484, 548	P3, T3
24.5 x 19.5	655	P3, K4, T3
25.0 x 25.0	360, [572]	P3, K4, T3
27.0 x 27.0	272, 388, 484, 544, 576, 625, [672], 675, 720	P3, K4, T3
29.0 x 29.0	729, [780], 783	P3, K4, T3
31.0 x 31.0	672, 736, 788, 829, 841, [896], 899	P3, K4, T3
33.0 x 33.0	820, 880, 884, 960, [1020]	P3, K4, T3
35.0 x 35.0	388, 440, 472, 528, 552, 680, 900, 960, 1008, [1152]	P3, K4, T3
37.5 x 37.5	876, 1148, [1292]	P3, K4, T3
40.0 x 40.0	525, 680, 717, 792, 956, 957, 957, 1012, 1157, 1248, 1280, 1309, 1323, 1325, 1377, 1413, 1444, 1445, 1508, 1515, [1517]	P3, K4, T3
42.5 x 42.5	860, 1189, 1252, 1605, [1677], 1680	P3, K4, T3
45.0 x 45.0	625, 1557, 1724, 1728, 1788, 1837, [1932]	P3, K4, T3

*At least one of the listed factories has the tool listed
 [] = Standard Leadcount

C1/C2 = Shanghai, China P1 = Muntinlupa City, Philippines
 K1 = Seoul, Korea P3/P4 = Laguna, Philippines
 K3 = Bupyeong, Korea T1/T3 = Lung Tan, Taiwan
 K4 = Gwangju, Korea

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Stacked CSP			
7 x 12	56	0.5	K4
10 x 12	48	1	T3
	56	1	T3
	79	0.8	K4
	88	0.8	K4
5 x 5	76	0.5	K4
6 x 6	64	0.5	K4
		0.65	K4
	100	0.5	K4
6 x 10	56	1	T3
6 x 8	48	1	T3
	54	0.75	K4
	63	0.8	K4
6.2 x 7.2	96	0.5	K4
7 x 7	64	0.65	K4
		0.8	K4
	84	0.5	K4
	144	0.5	K4
	209	0.4	K4
7.7 x 9	44	0.5	K4
8 x 8	52	0.8	K4
	81	0.8	K4
	96	0.65	K4
	100	0.75	K4, C1
	105	0.65	K4
	132	0.5	K4
8 x 10	44	0.5	K4
	56	1	T3
	56	0.75	K4
	62	1	T3
	63	1	T3
	66	0.8	K4
	67	0.8	K4
	71	0.8	K4
	88	0.8	K4, C1
8 x 11	66	0.8	K4
	72	0.8	K4
8 x 11.6	73	0.8	K4
8 x 12	44	1	K4
	66	0.8	K4
	67	0.8	K4
	74	0.8	K4
9 x 7	56	0.8	K4
9 x 9	81	0.8	K4
	121	0.75	K4
	124	0.65	K4
	128	0.5	K4
9 x 12	73	0.8	J1

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Stacked CSP			
10 x 10	100	0.8	K4
	121	0.8	K4
	144	0.75	K4
		0.8	K4
	173	0.5	K4
	174	0.65	K4
	180	0.5	K4
	180	0.65	J1
	216	0.5	K4, C1
259	0.5	K4	
10 x 14	96	0.8	K4
10.4 x 10.8	81	0.8	K4
11 x 8	88	0.8	K4
11 x 11	144	0.8	K4
	200	0.65	K4
11 x 13	135	0.8	K4
12 x 12	117	0.8	K4
	161	0.8	K4
	168	0.8	K4
	179	0.8	K4
	208	0.65	K4
	228	0.5	K4
	272	0.5	K4
	289	0.5	K4
	318	0.5	K4
	385	0.5	K4
13 x 13	144	1	K4
	225	0.8	K4
	289	0.5	K4
	294	0.65	K4
	325	0.5	K4
	341	0.5	K4
	401	0.5	K4
	417	0.5	K4
13 x 22	390	0.8	K4
14 x 14	134	0.8	K4
	151	0.65	K4
	300	0.65	K4
	348	0.5	K4
	409	0.5	K4
15 x 15	272	0.65	K4
	289	0.8	K4
Stacked LGA	50 to 80 I/O		K4
Tape S-CSP 1.4 & 1.2 mm	50 to 280 I/O		K4
S-MCM (3+die)	CABGA platform up to 18.0 x 18.0 mm body		K4
Slip Stacked CSP	TBD		K4 & P3

