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## IC Knowledge – IC Cost and Price Model Supported Packages List

As of the 2019 IC Cost and Price Model revision 03 the following packages are included in the model.

### Assembly Location/Provider

1. Amkor
2. ASE Group
3. Chipbond
4. ChipMOS
5. Intel - China
6. Intel - Malaysia
7. Internal - China
8. Internal - France
9. Internal - Germany
10. Internal - Israel
11. Internal - Italy
12. Internal - Japan
13. Internal - Malaysia
14. Internal - Mexico
15. Internal - Philippines
16. Internal - Singapore
17. Internal - South Korea
18. Internal - Taiwan
19. Internal - United Kingdom
20. Internal - United States
21. Powertech Technology (PTI)
22. Silicon Precision Industries (SPIL)
23. STATS ChipPac
24. TSMC
25. United Test and Assembly Center Ltd. (UTAC)

### Leadframe Options

1. DIP - 8 lead - 300 x 365 x 130 mils
2. DIP - 14 lead - 300 x 750 x 130 mils
3. DIP - 16 lead - 300 x 750 x 130 mils
4. DIP - 18 lead - 300 x 900 x 130 mils
5. DIP - 20 lead - 300 x 1030 x 130 mils
6. DIP - 24 lead - 300 x 1250 x 130 mils
7. DIP - 24 lead - 600 x 1250 x 150 mils

8. DIP - 28 lead - 300 x 1450 x 130 mils
9. DIP - 28 lead - 600 x 1450 x 150 mils
10. DIP - 40 lead - 600 x 2060 x 150 mils
11. LQFP - 32 lead - 7 x 7 x 1.4 mm
12. LQFP - 44 lead - 10 x 10 x 1.4 mm
13. LQFP - 44 lead - 14 x 14 x 1.4 mm
14. LQFP - 48 lead - 7 x 7 x 1.4 mm
15. LQFP - 52 lead - 10 x 10 x 1.4 mm
16. LQFP - 64 lead - 7 x 7 x 1.4 mm
17. LQFP - 64 lead - 10 x 10 x 1.4 mm
18. LQFP - 64 lead - 14 x 14 x 1.4 mm
19. LQFP - 80 lead - 10 x 10 x 1.4 mm
20. LQFP - 80 lead - 12 x 12 x 1.4 mm
21. LQFP - 80 lead - 14 x 14 x 1.4 mm
22. LQFP - 100 lead - 14 x 14 x 1.4 mm
23. LQFP - 100 lead - 14 x 20 x 1.4 mm
24. LQFP - 120 lead - 14 x 14 x 1.4 mm
25. LQFP - 128 lead - 14 x 14 x 1.4 mm
26. LQFP - 128 lead - 14 x 20 x 1.4 mm
27. LQFP - 128 lead - 20 x 20 x 1.4 mm
28. LQFP - 144 lead - 20 x 20 x 1.4 mm
29. LQFP - 160 lead - 24 x 24 x 1.4 mm
30. LQFP - 176 lead - 20 x 20 x 1.4 mm
31. LQFP - 176 lead - 24 x 24 x 1.4 mm
32. LQFP - 216 lead - 24 x 24 x 1.4 mm
33. LQFP - 208 lead - 28 x 28 x 1.4 mm
34. LQFP - 256 lead - 28 x 28 x 1.4 mm
35. MLF/MLP/QFN - 4 lead - 2 x 2 x 0.35 mm
36. MLF/MLP/QFN - 4 lead - 2 x 2 x 0.55 mm
37. MLF/MLP/QFN - 4 lead - 2 x 2 x 0.85 mm
38. MLF/MLP/QFN - 4 lead - 2 x 2 x 1 mm
39. MLF/MLP/QFN - 4 lead - 2.5 x 2 x 0.35 mm
40. MLF/MLP/QFN - 4 lead - 2.5 x 2 x 0.55 mm
41. MLF/MLP/QFN - 4 lead - 2.5 x 2 x 0.85 mm
42. MLF/MLP/QFN - 4 lead - 2.5 x 2 x 1 mm
43. MLF/MLP/QFN - 4 lead - 2.5 x 2.5 x 0.35 mm
44. MLF/MLP/QFN - 4 lead - 2.5 x 2.5 x 0.55 mm
45. MLF/MLP/QFN - 4 lead - 2.5 x 2.5 x 0.85 mm
46. MLF/MLP/QFN - 4 lead - 2.5 x 2.5 x 1 mm
47. MLF/MLP/QFN - 4 lead - 3 x 3 x 0.35 mm
48. MLF/MLP/QFN - 4 lead - 3 x 3 x 0.55 mm
49. MLF/MLP/QFN - 4 lead - 3 x 3 x 0.85 mm
50. MLF/MLP/QFN - 4 lead - 3 x 3 x 1 mm
51. MLF/MLP/QFN - 4 lead - 5 x 2.5 x 0.35 mm
52. MLF/MLP/QFN - 4 lead - 5 x 2.5 x 0.55 mm
53. MLF/MLP/QFN - 4 lead - 5 x 2.5 x 0.85 mm
54. MLF/MLP/QFN - 4 lead - 5 x 2.5 x 1 mm
55. MLF/MLP/QFN - 6 lead - 2 x 2 x 0.35 mm

56. MLF/MLP/QFN - 6 lead - 2 x 2 x 0.55 mm
57. MLF/MLP/QFN - 6 lead - 2 x 2 x 0.85 mm
58. MLF/MLP/QFN - 6 lead - 2 x 2 x 1 mm
59. MLF/MLP/QFN - 6 lead - 2.5 x 2.5 x 0.35 mm
60. MLF/MLP/QFN - 6 lead - 2.5 x 2.5 x 0.55 mm
61. MLF/MLP/QFN - 6 lead - 2.5 x 2.5 x 0.85 mm
62. MLF/MLP/QFN - 6 lead - 2.5 x 2.5 x 1 mm
63. MLF/MLP/QFN - 8 lead - 2.5 x 2.5 x 0.35 mm
64. MLF/MLP/QFN - 8 lead - 2.5 x 2.5 x 0.55 mm
65. MLF/MLP/QFN - 8 lead - 2.5 x 2.5 x 0.85 mm
66. MLF/MLP/QFN - 8 lead - 2.5 x 2.5 x 1 mm
67. MLF/MLP/QFN - 8 lead - 3 x 3 x 0.35 mm
68. MLF/MLP/QFN - 8 lead - 3 x 3 x 0.55 mm
69. MLF/MLP/QFN - 8 lead - 3 x 3 x 0.85 mm
70. MLF/MLP/QFN - 8 lead - 3 x 3 x 1 mm
71. MLF/MLP/QFN - 10 lead - 3 x 3 x 0.35 mm
72. MLF/MLP/QFN - 10 lead - 3 x 3 x 0.55 mm
73. MLF/MLP/QFN - 10 lead - 3 x 3 x 0.85 mm
74. MLF/MLP/QFN - 10 lead - 3 x 3 x 1 mm
75. MLF/MLP/QFN - 12 lead - 3 x 3 x 0.35 mm
76. MLF/MLP/QFN - 12 lead - 3 x 3 x 0.55 mm
77. MLF/MLP/QFN - 12 lead - 3 x 3 x 0.85 mm
78. MLF/MLP/QFN - 12 lead - 3 x 3 x 1 mm
79. MLF/MLP/QFN - 12 lead - 4 x 4 x 0.35 mm
80. MLF/MLP/QFN - 12 lead - 4 x 4 x 0.55 mm
81. MLF/MLP/QFN - 12 lead - 4 x 4 x 0.85 mm
82. MLF/MLP/QFN - 12 lead - 4 x 4 x 1 mm
83. MLF/MLP/QFN - 16 lead - 3 x 3 x 0.35 mm
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207. MLF/MLP/QFN - 42 lead - 6 x 5 x 0.35 mm
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210. MLF/MLP/QFN - 42 lead - 6 x 5 x 1 mm
211. MLF/MLP/QFN - 44 lead - 10 x 10 x 0.35 mm
212. MLF/MLP/QFN - 44 lead - 10 x 10 x 0.55 mm
213. MLF/MLP/QFN - 44 lead - 10 x 10 x 0.85 mm
214. MLF/MLP/QFN - 44 lead - 10 x 10 x 1 mm
215. MLF/MLP/QFN - 44 lead - 5 x 5 x 0.35 mm
216. MLF/MLP/QFN - 44 lead - 5 x 5 x 0.55 mm
217. MLF/MLP/QFN - 44 lead - 5 x 5 x 0.85 mm
218. MLF/MLP/QFN - 44 lead - 5 x 5 x 1 mm
219. MLF/MLP/QFN - 44 lead - 7 x 7 x 0.35 mm
220. MLF/MLP/QFN - 44 lead - 7 x 7 x 0.55 mm
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222. MLF/MLP/QFN - 44 lead - 7 x 7 x 1 mm
223. MLF/MLP/QFN - 44 lead - 9 x 9 x 0.35 mm
224. MLF/MLP/QFN - 44 lead - 9 x 9 x 0.55 mm
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226. MLF/MLP/QFN - 44 lead - 9 x 9 x 1 mm
227. MLF/MLP/QFN - 48 lead - 12 x 12 x 0.35 mm
228. MLF/MLP/QFN - 48 lead - 12 x 12 x 0.55 mm
229. MLF/MLP/QFN - 48 lead - 12 x 12 x 0.85 mm
230. MLF/MLP/QFN - 48 lead - 12 x 12 x 1 mm
231. MLF/MLP/QFN - 48 lead - 6 x 6 x 0.35 mm
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234. MLF/MLP/QFN - 48 lead - 6 x 6 x 1 mm
235. MLF/MLP/QFN - 48 lead - 7 x 7 x 0.35 mm
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237. MLF/MLP/QFN - 48 lead - 7 x 7 x 0.85 mm
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239. MLF/MLP/QFN - 48 lead - 9 x 9 x 0.35 mm
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241. MLF/MLP/QFN - 48 lead - 9 x 9 x 0.85 mm
242. MLF/MLP/QFN - 48 lead - 9 x 9 x 1 mm
243. MLF/MLP/QFN - 52 lead - 10 x 10 x 0.35 mm
244. MLF/MLP/QFN - 52 lead - 10 x 10 x 0.55 mm
245. MLF/MLP/QFN - 52 lead - 10 x 10 x 0.85 mm
246. MLF/MLP/QFN - 52 lead - 10 x 10 x 1 mm
247. MLF/MLP/QFN - 52 lead - 5 x 5 x 0.35 mm

- 248. MLF/MLP/QFN - 52 lead - 5 x 5 x 0.55 mm
- 249. MLF/MLP/QFN - 52 lead - 5 x 5 x 0.85 mm
- 250. MLF/MLP/QFN - 52 lead - 5 x 5 x 1 mm
- 251. MLF/MLP/QFN - 52 lead - 8 x 8 x 0.35 mm
- 252. MLF/MLP/QFN - 52 lead - 8 x 8 x 0.55 mm
- 253. MLF/MLP/QFN - 52 lead - 8 x 8 x 0.85 mm
- 254. MLF/MLP/QFN - 52 lead - 8 x 8 x 1 mm
- 255. MLF/MLP/QFN - 56 lead - 10 x 10 x 0.35 mm
- 256. MLF/MLP/QFN - 56 lead - 10 x 10 x 0.55 mm
- 257. MLF/MLP/QFN - 56 lead - 10 x 10 x 0.85 mm
- 258. MLF/MLP/QFN - 56 lead - 10 x 10 x 1 mm
- 259. MLF/MLP/QFN - 56 lead - 6 x 6 x 0.35 mm
- 260. MLF/MLP/QFN - 56 lead - 6 x 6 x 0.55 mm
- 261. MLF/MLP/QFN - 56 lead - 6 x 6 x 0.85 mm
- 262. MLF/MLP/QFN - 56 lead - 6 x 6 x 1 mm
- 263. MLF/MLP/QFN - 56 lead - 7 x 7 x 0.35 mm
- 264. MLF/MLP/QFN - 56 lead - 7 x 7 x 0.55 mm
- 265. MLF/MLP/QFN - 56 lead - 7 x 7 x 0.85 mm
- 266. MLF/MLP/QFN - 56 lead - 7 x 7 x 1 mm
- 267. MLF/MLP/QFN - 56 lead - 8 x 8 x 0.35 mm
- 268. MLF/MLP/QFN - 56 lead - 8 x 8 x 0.55 mm
- 269. MLF/MLP/QFN - 56 lead - 8 x 8 x 0.85 mm
- 270. MLF/MLP/QFN - 56 lead - 8 x 8 x 1 mm
- 271. MLF/MLP/QFN - 60 lead - 12 x 12 x 0.35 mm
- 272. MLF/MLP/QFN - 60 lead - 12 x 12 x 0.55 mm
- 273. MLF/MLP/QFN - 60 lead - 12 x 12 x 0.85 mm
- 274. MLF/MLP/QFN - 60 lead - 12 x 12 x 1 mm
- 275. MLF/MLP/QFN - 60 lead - 9 x 9 x 0.35 mm
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- 278. MLF/MLP/QFN - 60 lead - 9 x 9 x 1 mm
- 279. MLF/MLP/QFN - 64 lead - 6 x 6 x 0.35 mm
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- 287. MLF/MLP/QFN - 68 lead - 10 x 10 x 0.35 mm
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- 291. MLF/MLP/QFN - 68 lead - 7 x 7 x 0.35 mm
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- 295. MLF/MLP/QFN - 68 lead - 8 x 8 x 0.35 mm

- 296. MLF/MLP/QFN - 68 lead - 8 x 8 x 0.55 mm
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- 299. MLF/MLP/QFN - 72 lead - 10 x 10 x 0.35 mm
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- 333. MLF/MLP/QFN - 88 lead - 9 x 9 x 0.85 mm
- 334. MLF/MLP/QFN - 88 lead - 9 x 9 x 1 mm
- 335. MLF/MLP/QFN - 100 lead - 10 x 10 x 0.35 mm
- 336. MLF/MLP/QFN - 100 lead - 10 x 10 x 0.55 mm
- 337. MLF/MLP/QFN - 100 lead - 10 x 10 x 0.85 mm
- 338. MLF/MLP/QFN - 100 lead - 10 x 10 x 1 mm
- 339. MLF/MLP/QFN - 100 lead - 12 x 12 x 0.35 mm
- 340. MLF/MLP/QFN - 100 lead - 12 x 12 x 0.55 mm
- 341. MLF/MLP/QFN - 100 lead - 12 x 12 x 0.85 mm
- 342. MLF/MLP/QFN - 100 lead - 12 x 12 x 1 mm
- 343. MLF/MLP/QFN - 104 lead - 9 x 9 x 0.35 mm



- 344. MLF/MLP/QFN - 104 lead - 9 x 9 x 0.55 mm
- 345. MLF/MLP/QFN - 104 lead - 9 x 9 x 0.85 mm
- 346. MLF/MLP/QFN - 104 lead - 9 x 9 x 1 mm
- 347. MLF/MLP/QFN - 108 lead - 12 x 12 x 0.35 mm
- 348. MLF/MLP/QFN - 108 lead - 12 x 12 x 0.55 mm
- 349. MLF/MLP/QFN - 108 lead - 12 x 12 x 0.85 mm
- 350. MLF/MLP/QFN - 108 lead - 12 x 12 x 1 mm
- 351. MLF/MLP/QFN - 116 lead - 10 x 10 x 0.35 mm
- 352. MLF/MLP/QFN - 116 lead - 10 x 10 x 0.55 mm
- 353. MLF/MLP/QFN - 116 lead - 10 x 10 x 0.85 mm
- 354. MLF/MLP/QFN - 116 lead - 10 x 10 x 1 mm
- 355. MLF/MLP/QFN - 124 lead - 12 x 12 x 0.35 mm
- 356. MLF/MLP/QFN - 124 lead - 12 x 12 x 0.55 mm
- 357. MLF/MLP/QFN - 124 lead - 12 x 12 x 0.85 mm
- 358. MLF/MLP/QFN - 124 lead - 12 x 12 x 1 mm
- 359. MLF/MLP/QFN - 144 lead - 12 x 12 x 0.35 mm
- 360. MLF/MLP/QFN - 144 lead - 12 x 12 x 0.55 mm
- 361. MLF/MLP/QFN - 144 lead - 12 x 12 x 0.85 mm
- 362. MLF/MLP/QFN - 144 lead - 12 x 12 x 1 mm
- 363. MLF/MLP/QFN - 172 lead - 11.2 x 10 x 0.74 mm
- 364. MQFP - 44 lead - 10 x 10 x 2 mm
- 365. MQFP - 52 lead - 10 x 10 x 2 mm
- 366. MQFP - 52 lead - 14 x 14 x 2 mm
- 367. MQFP - 52 lead - 14 x 14 x 2.67 mm
- 368. MQFP - 64 lead - 10 x 10 x 2 mm
- 369. MQFP - 64 lead - 14 x 14 x 2 mm
- 370. MQFP - 64 lead - 14 x 14 x 2.67 mm
- 371. MQFP - 64 lead - 14 x 20 x 2.71 mm
- 372. MQFP - 80 lead - 14 x 14 x 2 mm
- 373. MQFP - 80 lead - 14 x 14 x 2.67 mm
- 374. MQFP - 80 lead - 14 x 20 x 2.71 mm
- 375. MQFP - 100 lead - 14 x 14 x 2 mm
- 376. MQFP - 100 lead - 14 x 14 x 2.67 mm
- 377. MQFP - 100 lead - 14 x 20 x 2.71 mm
- 378. MQFP - 120 lead - 28 x 28 x 3.37 mm
- 379. MQFP - 128 lead - 14 x 20 x 2.71 mm
- 380. MQFP - 128 lead - 28 x 28 x 3.37 mm
- 381. MQFP - 144 lead - 28 x 28 x 3.37 mm
- 382. MQFP - 160 lead - 28 x 28 x 3.37 mm
- 383. MQFP - 208 lead - 28 x 28 x 3.37 mm
- 384. MQFP - 240 lead - 32 x 32 x 3.4 mm
- 385. MQFP - 256 lead - 28 x 28 x 3.37 mm
- 386. PLCC - 20 lead - 352 x 352 x 152 mils
- 387. PLCC - 28 lead - 452 x 452 x 152 mils
- 388. PLCC - 32 lead - 452 x 552 x 109 mils
- 389. PLCC - 44 lead - 652 x 652 x 152 mils
- 390. PLCC - 52 lead - 752 x 752 x 152 mils
- 391. PLCC - 68 lead - 952 x 952 x 150 mils

- 392. PLCC - 84 lead - 1152 x 1152 x 150 mils
- 393. SOIC - 8 lead - 150 x 194 x 58 mils
- 394. SOIC - 8 lead - 208 x 208 x 71 mils
- 395. SOIC - 14 lead - 150 x 342 x 58 mils
- 396. SOIC - 16 lead - 150 x 391 x 58 mils
- 397. SOIC - 16 lead - 300 x 407 x 92 mils
- 398. SOIC - 18 lead - 300 x 456 x 92 mils
- 399. SOIC - 20 lead - 300 x 505 x 92 mils
- 400. SOIC - 24 lead - 300 x 607 x 92 mils
- 401. SOIC - 28 lead - 300 x 706 x 92 mils
- 402. SOIC - 32 lead - 445 x 802 x 118 mils
- 403. SOIC - 36 lead - 430 x 902 x 118 mils
- 404. SOIC - 44 lead - 430 x 1130 x 118 mils
- 405. SOIC - 54 lead - 430 x 1387 x 118 mils
- 406. TQFP - 32 lead - 5 x 5 x 1 mm
- 407. TQFP - 32 lead - 7 x 7 x 1 mm
- 408. TQFP - 40 lead - 5 x 5 x 1 mm
- 409. TQFP - 44 lead - 10 x 10 x 1 mm
- 410. TQFP - 48 lead - 7 x 7 x 1 mm
- 411. TQFP - 52 lead - 10 x 10 x 1 mm
- 412. TQFP - 64 lead - 7 x 7 x 1 mm
- 413. TQFP - 64 lead - 10 x 10 x 1 mm
- 414. TQFP - 64 lead - 14 x 14 x 1 mm
- 415. TQFP - 80 lead - 12 x 12 x 1 mm
- 416. TQFP - 80 lead - 14 x 14 x 1 mm
- 417. TQFP - 100 lead - 14 x 14 x 1 mm
- 418. TQFP - 120 lead - 14 x 14 x 1 mm
- 419. TQFP - 128 lead - 14 x 14 x 1 mm
- 420. TQFP - 144 lead - 16 x 16 x 1 mm
- 421. TQFP - 144 lead - 20 x 20 x 1 mm
- 422. TQFP - 176 lead - 20 x 20 x 1 mm
- 423. TSOP - 28 lead - 8 x 11.8 x 1 mm
- 424. TSOP - 32 lead - 8 x 11.8 x 1 mm
- 425. TSOP - 32 lead - 8 x 18.4 x 1 mm
- 426. TSOP - 40 lead - 10 x 18.4 x 1 mm
- 427. TSOP - 40 lead - 10.16 x 18.41 x 1 mm
- 428. TSOP - 44 lead - 10.16 x 18.41 x 1 mm
- 429. TSOP - 44 lead - 10.16 x 20.95 x 1 mm
- 430. TSOP - 48 lead - 12 x 18.4 x 1 mm
- 431. TSOP - 50 lead - 10.16 x 20.95 x 1 mm
- 432. TSOP - 54 lead - 10.16 x 22.22 x 1 mm
- 433. TSOP - 56 lead - 14 x 18.4 x 1 mm
- 434. TSSOP - 8 lead - 4.4 x 3 x 0.9 mm
- 435. TSSOP - 14 lead - 4.4 x 5 x 0.9 mm
- 436. TSSOP - 16 lead - 4.4 x 5 x 0.9 mm
- 437. TSSOP - 20 lead - 4.4 x 6.5 x 0.9 mm
- 438. TSSOP - 24 lead - 4.4 x 7.8 x 0.9 mm
- 439. TSSOP - 28 lead - 4.4 x 9.7 x 0.9 mm

440. TSSOP - 38 lead - 4.4 x 9.7 x 0.9 mm

Organic Substrate Options

1. Body size
2. Core layers
3. Build Up layers
4. Connect type (wirebond or Flip chip die connection to the substrate)
5. Number of connections

Wafer Level Options

1. Backgrind
2. Backgrind + solder bump
3. Solder bump
4. Solder bump + coat
5. Solder bump + 1 RDL
6. Solder bump + 1 RDL + coat
7. Solder bump + 2 RDL
8. Solder bump + 2 RDL + coat
9. Reconstructed wafer
10. Saw only

General Defaults/Overrides

1. Assembly yield (%)
2. Wire bond type
3. Bypass capacitors
4. Power supply capacitors
5. Package cost override
6. Package IP adder