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

As of the 2021 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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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
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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
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- 266. MLF/MLP/QFN - 56 lead - 7 x 7 x 1 mm
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- 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
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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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- 299. MLF/MLP/QFN - 72 lead - 10 x 10 x 0.35 mm
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- 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