



IC Knowledge LLC, PO Box 20, Georgetown, MA 01833

Web site: www.icknowledge.com email: info@icknowledge.com

Tx: (978) 352 – 7610, Fx: (978) 352 – 3870

IC Knowledge – MEMS Cost and Price Model Supported IC Processes List

As of the 2019 revision 02 the following IC processes are included in the MEMS Cost and Price Model.

The MEMS cost and price models supports up to two IC die and up to two MEMS die in each MEMS product.

The syntax is: process number – wafer size – node – company name – company process name – process type – process details – poly layers – metal layers/type

1. 150mm - 2.5 μ m - ADI - iMEMS - BiCMOS + MEMS - NA - 2P/1AI
2. 150mm - 2.5 μ m - ADI - iMEMS - BiCMOS + MEMS - NA - 3P/1AI
3. 150mm - 1.2 μ m - Robert Bosch - NA - BCDMOS + MEMS - NA - 1P/2AI
4. 150mm - 1.2 μ m - Robert Bosch - NA - BCD - NA - 1P/3AI
5. 150mm - 1.2 μ m - Robert Bosch - NA - BCD - NA - 2P/3AI
6. 150mm - 1.2 μ m - Robert Bosch - NA - CMOS - NA - 1P/3AI
7. 150mm - 1.0 μ m - Robert Bosch - BCD3 - BCD - NA - 2P/3AI
8. 150mm - 1.0 μ m - Robert Bosch - NA - BCD - NA - 2P/3AI
9. 150mm - 1.0 μ m - Robert Bosch - NA - CMOS - NA - 1P/3AI
10. 150mm - 1.0 μ m - STMicro - NA - BCD - NA - 1P/3AI
11. 150mm - 1.0 μ m - STMicro - NA - CMOS - NA - 1P/2AI
12. 150mm - 1.0 μ m - Tower - TS100 - CMOS - NA - 1P/2AI
13. 150mm - 1.0 μ m - TSMC - NA - CMOS - HV - 3P/2AI
14. 150mm - 1.0 μ m - X-Fab - XD10H - BCD SOI - 650V DMOS - 2P/3AI
15. 150mm - 1.0 μ m - X-Fab - XC10 - CMOS - Pressure Sensor - 2P/2AI
16. 150mm - 800nm - ASMC - NA - BiCMOS - NA - 1P/3AI
17. 150mm - 800nm - Dalsa - C08G - BCDMOS - NA - /2AI
18. 150mm - 800nm - Dalsa - C08G - BCDMOS - NA - /3AI
19. 150mm - 800nm - Freescale - SMOS5 - CMOS - NA - 1P/2AI
20. 150mm - 800nm - Robert Bosch - NA - BCD - NA - 1P/3AI
21. 150mm - 800nm - Robert Bosch - NA - CMOS - NA - 1P/3AI
22. 150mm - 800nm - STMicro - NA - BCD - NA - 1P/3AI
23. 150mm - 800nm - STMicro - NA - CMOS - NA - 1P/3AI
24. 150mm - 800nm - Tower - TS80M - CMOS - NA - 2P/3AI
25. 150mm - 800nm - X-Fab - CX08 - CMOS - HV, EEPROM - 2P/3AI
26. 150mm - 700nm - MEMSIC - NA - CMOS + MEMS - NA - 1P/2AI
27. 150mm - 700nm - On Semi (AMI) - I2T30 - BiCMOS - 30V - 1P/2AI

28. 150mm - 700nm - On Semi (AMI) - I2T30E - BiCMOS - 30V - 2P/2AI
29. 150mm - 700nm - On Semi (AMI) - I2T60 - BiCMOS - 60V - 2P/2AI
30. 150mm - 700nm - On Semi (AMI) - I2T100 - BiCMOS - 100V - 2P/2AI
31. 150mm - 700nm - Robert Bosch - HC65 DOT - BCD - NA - 2P/3AI
32. 150mm - 600nm - ADI - EP135 - BiCMOS - Comp,TFR, PPCaps - 1P/3AI
33. 150mm - 600nm - STMicro - BCD5 - BCD - 80V DMOS - 2P/3AI
34. 150mm - 600nm - Tower - TS60M - CMOS - NA - 2P/3AI
35. 150mm - 600nm - TSMC - NA - CMOS - NA - 1P/2AI
36. 150mm - 600nm - TSMC - NA - CMOS - HV - 1P/2AI
37. 150mm - 600nm - X-Fab - CX06 - CMOS - NA - 1P/3AI
38. 150mm - 600nm - X-Fab - XB06 - BiCMOS - NA - 2P/3AI
39. 150mm - 600nm - X-Fab - XC06 - CMOS - eFlash - 2P/3AI
40. 150mm - 500nm - Tower - TS50 - CMOS - NA - 2P/3AI
41. 150mm - 500nm - TSMC - NA - CMOS - NA - 1P/3AI
42. 150mm - 500nm - UMC - NA - CMOS - NA - 1P/3AI
43. 150mm - 450nm - NXP - BiMOS3 - BiCMOS - NA - 1P/2AI
44. 150mm - 350nm - On Semi (AMI) - I3T50 - BCD - MIM - 1P/3AI
45. 150mm - 350nm - On Semi (AMI) - I3T51 - BCD - MIM - 1P/4AI
46. 150mm - 350nm - On Semi (AMI) - I3T52 - BCD - MIM - 1P/5AI
47. 150mm - 350nm - Tower - TS35 - CMOS - NA - 2P/4AI
48. 200mm - 900nm - AMS - Proximity Diode - Diode - NA - 0P/1AI
49. 200mm - 800nm - NXP - ABCD3 - BCD - NA - 1P/3AI
50. 200mm - 700nm - Foundry - NA - CMOS - NA - 1P/3AI
51. 200mm - 700nm - TI - DLP - CMOS + MEMS - NA - 1P/5AI
52. 200mm - 600nm - Global Foundries (Sing) - NA - BiCMOS - NA - 2P/2AI
53. 200mm - 600nm - Global Foundries (Sing) - NA - BiCMOS - NA - 2P/3AI
54. 200mm - 600nm - Global Foundries (Sing) - NA - CMOS - Analog - 2P/2AI
55. 200mm - 600nm - Global Foundries (Sing) - NA - CMOS - NA - 1P/3AI
56. 200mm - 600nm - Global Foundries (Sing) - NA - EEPROM - NA - 2P/2AI
57. 200mm - 600nm - STMicro - BCD5 - BCD - 80V - 2P/3AI
58. 200mm - 500nm - Foundry - NA - BiCMOS - NA - 1P/3AI
59. 200mm - 500nm - Foundry - NA - BiCMOS - NA - 1P/4AI
60. 200mm - 500nm - Foundry - NA - BCDMOS - EEPROM - 1P/3AI
61. 200mm - 500nm - Freescale - NA - CMOS - DGO, eFlash - 2P/2AI
62. 200mm - 500nm - Global Foundries (Sing) - NA - CMOS - NA - 2P/3AI
63. 200mm - 500nm - TSMC - NA - CMOS - NA - 1P/3AI
64. 200mm - 500nm - UMC - NA - CMOS - NA - 1P/3AI
65. 200mm - 500nm - Vanguard - NA - CMOS - DNW, 1Vt - 1P/3AI
66. 200mm - 450nm - Allegro - Hall Effect - CMPS - EEPROM - 1P/4AI
67. 200mm - 350nm - ASMC - NA - BiCMOS - EEPROM - 2P/3AI
68. 200mm - 350nm - ASMC - NA - CMOS - EEPROM - 2P/5AI
69. 200mm - 350nm - Freescale - SMOS7 - CMOS - NA - 1P/3AI
70. 200mm - 350nm - Global Foundries (Sing) - NA - CMOS - DGO - 1P/3AI
71. 200mm - 350nm - Global Foundries (Sing) - NA - CMOS - DGO - 1P/4AI
72. 200mm - 350nm - Global Foundries (Sing) - NA - CMOS - DGO, Mixed Sig - 2P/4AI
73. 200mm - 350nm - Global Foundries (Sing) - NA - CMOS - NA - 1P/4AI
74. 200mm - 350nm - NXP - NA - CMOS - eFlash - 2P/5AI
75. 200mm - 350nm - On Semi (AMI) - NA - CMOS - DMOS - 1P/3AI

76. 200mm - 350nm - SMIC - NA - CMOS - NA - 1P/4AI
77. 200mm - 350nm - Robert Bosch - BCD6 - BCDMOS - NA - 1P/3AI
78. 200mm - 350nm - Robert Bosch - BCD6 - BCDMOS - NA - 1P/4AI
79. 200mm - 350nm - Robert Bosch - BCD6 - BCDMOS - NA - 1P/5AI
80. 200mm - 350nm - STMicro - BCD6 - BCD - NA - 1P/3AI
81. 200mm - 350nm - STMicro - BCD6 - BCD - NA - 1P/4AI
82. 200mm - 350nm - STMicro - BCD6 - BCD - NA - 1P/5AI
83. 200mm - 350nm - STMicro - BiCMOS6G - BiCMOS - NA - 3P/5AI
84. 200mm - 350nm - TSMC - NA - CMOS - eFlash - 2P/3AI
85. 200mm - 350nm - TSMC - NA - CMOS - NA - 1P/4AI
86. 200mm - 350nm - UMC - NA - CMOS - NA - 1P/4AI
87. 200mm - 350nm - X-Fab - NA - CMOS - LV, EEPROM, Schottky - 2P/4AI
88. 200mm - 350nm - X-Fab - NA - CMOS - Mixed Sig - 2P/4AI
89. 200mm - 250nm - Freescale - NA - CMOS - eFlash - 2P/3AI
90. 200mm - 250nm - Freescale - NA - CMOS - eFlash - 2P/4AI
91. 200mm - 250nm - Freescale - NA - CMOS - NA - 1P/4AI
92. 200mm - 250nm - Global Foundries (Sing) - NA - CMOS - DGO - 1P/5AI
93. 200mm - 250nm - SMIC - NA - CMOS - DGO - 1P/5AI
94. 200mm - 250nm - STMicro - HCMOS7 - CMOS - NA - 1P/4AI
95. 200mm - 250nm - TSMC - NA - CMOS - NA - 1P/3AI
96. 200mm - 250nm - TSMC - NA - CMOS - DGO - 1P/4AI
97. 200mm - 250nm - TSMC - NA - CMOS - DGO, eFlash - 2P/4AI
98. 200mm - 250nm - TSMC - NA - CMOS - DGO - 1P/5AI
99. 200mm - 250nm - TSMC - NA - CMOS - NA - 1P/6AI
100. 200mm - 250nm - UMC - NA - CMOS - DGO - 1P/5AI
101. 200mm - 180nm - AMS - RGBC+IR - CMOS - image sensor - 1P/4AI
102. 200mm - 180nm - Freescale - NA - CMOS - DGO, eFlash - 1P/5Cu
103. 200mm - 180nm - Freescale - NA - CMOS - RF - 1P/4Cu
104. 200mm - 180nm - Freescale - NA - CMOS - SOI, DGO - 1P/7AI
105. 200mm - 180nm - Global Foundries (Sing) - NA - BCD - NA - 1P/4AI
106. 200mm - 180nm - Global Foundries (Sing) - NA - CMOS - DGO - 1P/6AI
107. 200mm - 180nm - Global Foundries (Sing) - NA - CMOS - Mixed Sig, RF - 1P/6AI
108. 200mm - 180nm - NXP - NA - CMOS - DGO - 1P/1W/6AI
109. 200mm - 180nm - On Semi (AMI) - ONC18D - CMOS - DGO - 1P/5AI
110. 200mm - 180nm - On Semi (AMI) - ONC18D - CMOS - DGO - 1P/6AI
111. 200mm - 180nm - Rohm - NA - CMOS - DGO - 1P/5AI
112. 200mm - 180nm - SMIC - NA - BCD - NA - 1P/4AI
113. 200mm - 180nm - SMIC - NA - CMOS - DGO - 1P/6AI
114. 200mm - 180nm - STMicro - BCD8 - BCD - NA - 1P/4AI
115. 200mm - 180nm - STMicro - BCD8 - BCD - NA - 1P/5AI
116. 200mm - 180nm - STMicro - BCD8 - BCD - NA - 1P/6AI
117. 200mm - 180nm - STMicro - F8 - CMOS - EEPROM - 2P/4AI
118. 200mm - 180nm - STMicro - NA - EEPROM - EEPROM - 1P/2AI
119. 200mm - 180nm - TI - LBC8 - BCD - 65V DMOS - 2P/4AI
120. 200mm - 180nm - TowerJazz - NA - BCD - NA - 1P/4AI
121. 200mm - 180nm - TowerJazz - CA18 - CMOS - DGO, RF - 1P/6AI
122. 200mm - 180nm - TowerJazz - CA18HV MEMS - CMOS - DGO, RF, MEMS Tuner - 1P/6AI
123. 200mm - 180nm - TowerJazz - CA18QG - CMOS - DGO, DNW, MIM, 4Vt - 1P/4AI

124. 200mm - 180nm - TowerJazz - CS18MT1 - CMOS - SOI, MIM, DNW, 2Vt - 1P/3Al
125. 200mm - 180nm - TowerJazz - CS18QT5 - CMOS - SOI, DNW, MIM, 2Vt - 1P/4Al
126. 200mm - 180nm - TowerJazz - SBC18H3 - SiGe - DGO - 1P/6Al
127. 200mm - 180nm - TowerJazz - TS18SL - CMOS - DGO - 1P/6Al
128. 200mm - 180nm - TSMC - NA - BCD - NA - 1P/4Al
129. 200mm - 180nm - TSMC - NA - BCD - DMOS, HVW, Res - 1P/6Al
130. 200mm - 180nm - TSMC - NA - CMOS - DGO - 1P/5Al
131. 200mm - 180nm - TSMC - NA - CMOS - DGO, 3Vt, Res, eFlash - 1P/5Al
132. 200mm - 180nm - TSMC - NA - CMOS - DGO - 1P/6Al
133. 200mm - 180nm - TSMC - NA - CMOS - DGO, eFlash - 2P/4Al
134. 200mm - 180nm - TSMC - NA - CMOS - DGO, eFlash - 2P/6Al
135. 200mm - 180nm - TSMC - NA - CMOS - DGO, RF - 1P/4Al
136. 200mm - 180nm - UMC - NA - BCD - NA - 1P/4Al
137. 200mm - 180nm - UMC - NA - CMOS - DGO - 1P/5Al
138. 200mm - 180nm - UMC - NA - CMOS - DGO - 1P/6Al
139. 200mm - 130nm - STMicro - HCMOS9A - CMOS - DGO, eFlash - 1P/4Cu
140. 300mm - 180nm - TI - LBC8 - BCD - 65V DMOS - 2P/4Al