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

As of the 2019 revision 00 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 - 800nm - NXP - ABCD3 - BCD - NA - 1P/3AI
49. 200mm - 700nm - Foundry - NA - CMOS - NA - 1P/3AI
50. 200mm - 700nm - TI - DLP - CMOS + MEMS - NA - 1P/5AI
51. 200mm - 600nm - Global Foundries (Sing) - NA - BiCMOS - NA - 2P/2AI
52. 200mm - 600nm - Global Foundries (Sing) - NA - BiCMOS - NA - 2P/3AI
53. 200mm - 600nm - Global Foundries (Sing) - NA - CMOS - Analog - 2P/2AI
54. 200mm - 600nm - Global Foundries (Sing) - NA - CMOS - NA - 1P/3AI
55. 200mm - 600nm - Global Foundries (Sing) - NA - EEPROM - NA - 2P/2AI
56. 200mm - 600nm - STMicro - BCD5 - BCD - 80V - 2P/3AI
57. 200mm - 500nm - Foundry - NA - BiCMOS - NA - 1P/3AI
58. 200mm - 500nm - Foundry - NA - BiCMOS - NA - 1P/4AI
59. 200mm - 500nm - Foundry - NA - BCDMOS - EEPROM - 1P/3AI
60. 200mm - 500nm - Freescale - NA - CMOS - DGO, eFlash - 2P/2AI
61. 200mm - 500nm - Global Foundries (Sing) - NA - CMOS - NA - 2P/3AI
62. 200mm - 500nm - TSMC - NA - CMOS - NA - 1P/3AI
63. 200mm - 500nm - UMC - NA - CMOS - NA - 1P/3AI
64. 200mm - 500nm - Vanguard - NA - CMOS - DNW, 1Vt - 1P/3AI
65. 200mm - 350nm - ASMC - NA - BiCMOS - EEPROM - 2P/3AI
66. 200mm - 350nm - ASMC - NA - CMOS - EEPROM - 2P/5AI
67. 200mm - 350nm - Freescale - SMOS7 - CMOS - NA - 1P/3AI
68. 200mm - 350nm - Global Foundries (Sing) - NA - CMOS - DGO - 1P/3AI
69. 200mm - 350nm - Global Foundries (Sing) - NA - CMOS - DGO - 1P/4AI
70. 200mm - 350nm - Global Foundries (Sing) - NA - CMOS - DGO, Mixed Sig - 2P/4AI
71. 200mm - 350nm - Global Foundries (Sing) - NA - CMOS - NA - 1P/4AI
72. 200mm - 350nm - NXP - NA - CMOS - eFlash - 2P/5AI
73. 200mm - 350nm - On Semi (AMI) - NA - CMOS - DMOS - 1P/3AI
74. 200mm - 350nm - SMIC - NA - CMOS - NA - 1P/4AI
75. 200mm - 350nm - Robert Bosch - BCD6 - BCDMOS - NA - 1P/3AI

76. 200mm - 350nm - Robert Bosch - BCD6 - BCDMOS - NA - 1P/4AI
77. 200mm - 350nm - Robert Bosch - BCD6 - BCDMOS - NA - 1P/5AI
78. 200mm - 350nm - STMicro - BCD6 - BCD - NA - 1P/3AI
79. 200mm - 350nm - STMicro - BCD6 - BCD - NA - 1P/4AI
80. 200mm - 350nm - STMicro - BCD6 - BCD - NA - 1P/5AI
81. 200mm - 350nm - STMicro - BiCMOS6G - BiCMOS - NA - 3P/5AI
82. 200mm - 350nm - TSMC - NA - CMOS - eFlash - 2P/3AI
83. 200mm - 350nm - TSMC - NA - CMOS - NA - 1P/4AI
84. 200mm - 350nm - UMC - NA - CMOS - NA - 1P/4AI
85. 200mm - 350nm - X-Fab - NA - CMOS - LV, EEPROM, Schottky - 2P/4AI
86. 200mm - 350nm - X-Fab - NA - CMOS - Mixed Sig - 2P/4AI
87. 200mm - 250nm - Freescale - NA - CMOS - eFlash - 2P/3AI
88. 200mm - 250nm - Freescale - NA - CMOS - eFlash - 2P/4AI
89. 200mm - 250nm - Freescale - NA - CMOS - NA - 1P/4AI
90. 200mm - 250nm - Global Foundries (Sing) - NA - CMOS - DGO - 1P/5AI
91. 200mm - 250nm - SMIC - NA - CMOS - DGO - 1P/5AI
92. 200mm - 250nm - STMicro - HCMOS7 - CMOS - NA - 1P/4AI
93. 200mm - 250nm - TSMC - NA - CMOS - NA - 1P/3AI
94. 200mm - 250nm - TSMC - NA - CMOS - DGO - 1P/4AI
95. 200mm - 250nm - TSMC - NA - CMOS - DGO, eFlash - 2P/4AI
96. 200mm - 250nm - TSMC - NA - CMOS - DGO - 1P/5AI
97. 200mm - 250nm - TSMC - NA - CMOS - NA - 1P/6AI
98. 200mm - 250nm - UMC - NA - CMOS - DGO - 1P/5AI
99. 200mm - 180nm - Freescale - NA - CMOS - DGO, eFlash - 1P/5Cu
100. 200mm - 180nm - Freescale - NA - CMOS - RF - 1P/4Cu
101. 200mm - 180nm - Freescale - NA - CMOS - SOI, DGO - 1P/7AI
102. 200mm - 180nm - Global Foundries (Sing) - NA - BCD - NA - 1P/4AI
103. 200mm - 180nm - Global Foundries (Sing) - NA - CMOS - DGO - 1P/6AI
104. 200mm - 180nm - Global Foundries (Sing) - NA - CMOS - Mixed Sig, RF - 1P/6AI
105. 200mm - 180nm - NXP - NA - CMOS - DGO - 1P/1W/6AI
106. 200mm - 180nm - On Semi (AMI) - ONC18D - CMOS - DGO - 1P/5AI
107. 200mm - 180nm - On Semi (AMI) - ONC18D - CMOS - DGO - 1P/6AI
108. 200mm - 180nm - Rohm - NA - CMOS - DGO - 1P/5AI
109. 200mm - 180nm - SMIC - NA - BCD - NA - 1P/4AI
110. 200mm - 180nm - SMIC - NA - CMOS - DGO - 1P/6AI
111. 200mm - 180nm - STMicro - BCD8 - BCD - NA - 1P/4AI
112. 200mm - 180nm - STMicro - BCD8 - BCD - NA - 1P/5AI
113. 200mm - 180nm - STMicro - BCD8 - BCD - NA - 1P/6AI
114. 200mm - 180nm - STMicro - F8 - CMOS - EEPROM - 2P/4AI
115. 200mm - 180nm - STMicro - NA - EEPROM - EEPROM - 1P/2AI
116. 200mm - 180nm - TowerJazz - NA - BCD - NA - 1P/4AI
117. 200mm - 180nm - TowerJazz - CA18 - CMOS - DGO, RF - 1P/6AI
118. 200mm - 180nm - TowerJazz - CA18HVMEMS - CMOS - DGO, RF, MEMS Tuner - 1P/6AI
119. 200mm - 180nm - TowerJazz - CA18QG - CMOS - DGO, DNW, MIM, 4Vt - 1P/4AI
120. 200mm - 180nm - TowerJazz - CS18MT1 - CMOS - SOI, MIM, DNW, 2Vt - 1P/3AI
121. 200mm - 180nm - TowerJazz - CS18QT5 - CMOS - SOI, DNW, MIM, 2Vt - 1P/4AI
122. 200mm - 180nm - TowerJazz - SBC18H3 - SiGe - DGO - 1P/6AI
123. 200mm - 180nm - TowerJazz - TS18SL - CMOS - DGO - 1P/6AI

124. 200mm - 180nm - TSMC - NA - BCD - NA - 1P/4Al
125. 200mm - 180nm - TSMC - NA - BCD - DMOS, HVW, Res - 1P/6Al
126. 200mm - 180nm - TSMC - NA - CMOS - DGO - 1P/5Al
127. 200mm - 180nm - TSMC - NA - CMOS - DGO, 3Vt, Res, eFlash - 1P/5Al
128. 200mm - 180nm - TSMC - NA - CMOS - DGO - 1P/6Al
129. 200mm - 180nm - TSMC - NA - CMOS - DGO, eFlash - 2P/4Al
130. 200mm - 180nm - TSMC - NA - CMOS - DGO, eFlash - 2P/6Al
131. 200mm - 180nm - TSMC - NA - CMOS - DGO, RF - 1P/4Al
132. 200mm - 180nm - UMC - NA - BCD - NA - 1P/4Al
133. 200mm - 180nm - UMC - NA - CMOS - DGO - 1P/5Al
134. 200mm - 180nm - UMC - NA - CMOS - DGO - 1P/6Al
135. 200mm - 130nm - STMicro - HCMOS9A - CMOS - DGO, eFlash - 1P/4Cu