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

As of the 2017 revision 01 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. None
2. 150mm - 2.5 μ m - ADI - iMEMS - BiCMOS + MEMS - NA - 2P/1AI
3. 150mm - 2.5 μ m - ADI - iMEMS - BiCMOS + MEMS - NA - 3P/1AI
4. 150mm - 1.2 μ m - Robert Bosch - NA - BCDMOS + MEMS - NA - 1P/2AI
5. 150mm - 1.2 μ m - Robert Bosch - NA - BCD - NA - 1P/3AI
6. 150mm - 1.2 μ m - Robert Bosch - NA - BCD - NA - 2P/3AI
7. 150mm - 1.2 μ m - Robert Bosch - NA - CMOS - NA - 1P/3AI
8. 150mm - 1.0 μ m - Robert Bosch - BCD3 - BCD - NA - 2P/3AI
9. 150mm - 1.0 μ m - Robert Bosch - NA - BCD - NA - 2P/3AI
10. 150mm - 1.0 μ m - Robert Bosch - NA - CMOS - NA - 1P/3AI
11. 150mm - 1.0 μ m - STMicro - NA - BCD - NA - 1P/3AI
12. 150mm - 1.0 μ m - STMicro - NA - CMOS - NA - 1P/2AI
13. 150mm - 1.0 μ m - Tower - TS100 - CMOS - NA - 1P/2AI
14. 150mm - 1.0 μ m - TSMC - NA - CMOS - HV - 3P/2AI
15. 150mm - 1.0 μ m - X-Fab - XD10H - BCD SOI - 650V DMOS - 2P/3AI
16. 150mm - 1.0 μ m - X-Fab - XC10 - CMOS - Pressure Sensor - 2P/2AI
17. 150mm - 800nm - ASMC - NA - BiCMOS - NA - 1P/3AI
18. 150mm - 800nm - Dalsa - C08G - BCDMOS - NA - /2AI
19. 150mm - 800nm - Dalsa - C08G - BCDMOS - NA - /3AI
20. 150mm - 800nm - Freescale - SMOS5 - CMOS - NA - 1P/2AI
21. 150mm - 800nm - Robert Bosch - NA - BCD - NA - 1P/3AI
22. 150mm - 800nm - Robert Bosch - NA - CMOS - NA - 1P/3AI
23. 150mm - 800nm - STMicro - NA - BCD - NA - 1P/3AI
24. 150mm - 800nm - STMicro - NA - CMOS - NA - 1P/3AI
25. 150mm - 800nm - Tower - TS80M - CMOS - NA - 2P/3AI
26. 150mm - 800nm - X-Fab - CX08 - CMOS - HV, EEPROM - 2P/3AI
27. 150mm - 700nm - MEMSIC - NA - CMOS + MEMS - NA - 1P/2AI

28. 150mm - 700nm - On Semi (AMI) - I2T30 - BiCMOS - 30V - 1P/2AI
29. 150mm - 700nm - On Semi (AMI) - I2T30E - BiCMOS - 30V - 2P/2AI
30. 150mm - 700nm - On Semi (AMI) - I2T60 - BiCMOS - 60V - 2P/2AI
31. 150mm - 700nm - On Semi (AMI) - I2T100 - BiCMOS - 100V - 2P/2AI
32. 150mm - 700nm - Robert Bosch - HC65 DOT - BCD - NA - 2P/3AI
33. 150mm - 600nm - ADI - EP135 - BiCMOS - Comp,TFR, PPCaps - 1P/3AI
34. 150mm - 600nm - STMicro - BCD5 - BCD - 80V DMOS - 2P/3AI
35. 150mm - 600nm - Tower - TS60M - CMOS - NA - 2P/3AI
36. 150mm - 600nm - TSMC - NA - CMOS - NA - 1P/2AI
37. 150mm - 600nm - TSMC - NA - CMOS - HV - 1P/2AI
38. 150mm - 600nm - X-Fab - CX06 - CMOS - NA - 1P/3AI
39. 150mm - 600nm - X-Fab - XB06 - BiCMOS - NA - 2P/3AI
40. 150mm - 600nm - X-Fab - XC06 - CMOS - eFlash - 2P/3AI
41. 150mm - 500nm - Tower - TS50 - CMOS - NA - 2P/3AI
42. 150mm - 500nm - TSMC - NA - CMOS - NA - 1P/3AI
43. 150mm - 500nm - UMC - NA - CMOS - NA - 1P/3AI
44. 150mm - 450nm - NXP - BiMOS3 - BiCMOS - NA - 1P/2AI
45. 150mm - 350nm - On Semi (AMI) - I3T50 - BCD - MIM - 1P/3AI
46. 150mm - 350nm - On Semi (AMI) - I3T51 - BCD - MIM - 1P/4AI
47. 150mm - 350nm - On Semi (AMI) - I3T52 - BCD - MIM - 1P/5AI
48. 150mm - 350nm - Tower - TS35 - CMOS - NA - 2P/4AI
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 - 350nm - ASMC - NA - BiCMOS - EEPROM - 2P/3AI
67. 200mm - 350nm - ASMC - NA - CMOS - EEPROM - 2P/5AI
68. 200mm - 350nm - Freescale - SMOS7 - CMOS - NA - 1P/3AI
69. 200mm - 350nm - Global Foundries (Sing) - NA - CMOS - DGO - 1P/3AI
70. 200mm - 350nm - Global Foundries (Sing) - NA - CMOS - DGO - 1P/4AI
71. 200mm - 350nm - Global Foundries (Sing) - NA - CMOS - DGO, Mixed Sig - 2P/4AI
72. 200mm - 350nm - Global Foundries (Sing) - NA - CMOS - NA - 1P/4AI
73. 200mm - 350nm - NXP - NA - CMOS - eFlash - 2P/5AI
74. 200mm - 350nm - On Semi (AMI) - NA - CMOS - DMOS - 1P/3AI
75. 200mm - 350nm - SMIC - NA - CMOS - NA - 1P/4AI

76. 200mm - 350nm - Robert Bosch - BCD6 - BCDMOS - NA - 1P/3AI
77. 200mm - 350nm - Robert Bosch - BCD6 - BCDMOS - NA - 1P/4AI
78. 200mm - 350nm - Robert Bosch - BCD6 - BCDMOS - NA - 1P/5AI
79. 200mm - 350nm - STMicro - BCD6 - BCD - NA - 1P/3AI
80. 200mm - 350nm - STMicro - BCD6 - BCD - NA - 1P/4AI
81. 200mm - 350nm - STMicro - BCD6 - BCD - NA - 1P/5AI
82. 200mm - 350nm - STMicro - BiCMOS6G - BiCMOS - NA - 3P/5AI
83. 200mm - 350nm - TSMC - NA - CMOS - eFlash - 2P/3AI
84. 200mm - 350nm - TSMC - NA - CMOS - NA - 1P/4AI
85. 200mm - 350nm - UMC - NA - CMOS - NA - 1P/4AI
86. 200mm - 350nm - X-Fab - NA - CMOS - LV, EEPROM, Schottky - 2P/4AI
87. 200mm - 350nm - X-Fab - NA - CMOS - Mixed Sig - 2P/4AI
88. 200mm - 250nm - Freescale - NA - CMOS - eFlash - 2P/3AI
89. 200mm - 250nm - Freescale - NA - CMOS - eFlash - 2P/4AI
90. 200mm - 250nm - Freescale - NA - CMOS - NA - 1P/4AI
91. 200mm - 250nm - Global Foundries (Sing) - NA - CMOS - DGO - 1P/5AI
92. 200mm - 250nm - SMIC - NA - CMOS - DGO - 1P/5AI
93. 200mm - 250nm - STMicro - HCMOS7 - CMOS - NA - 1P/4AI
94. 200mm - 250nm - TSMC - NA - CMOS - NA - 1P/3AI
95. 200mm - 250nm - TSMC - NA - CMOS - DGO - 1P/4AI
96. 200mm - 250nm - TSMC - NA - CMOS - DGO, eFlash - 2P/4AI
97. 200mm - 250nm - TSMC - NA - CMOS - DGO - 1P/5AI
98. 200mm - 250nm - TSMC - NA - CMOS - NA - 1P/6AI
99. 200mm - 250nm - UMC - NA - CMOS - DGO - 1P/5AI
100. 200mm - 180nm - Freescale - NA - CMOS - DGO, eFlash - 1P/5Cu
101. 200mm - 180nm - Freescale - NA - CMOS - RF - 1P/4Cu
102. 200mm - 180nm - Freescale - NA - CMOS - SOI, DGO - 1P/7AI
103. 200mm - 180nm - Global Foundries (Sing) - NA - BCD - NA - 1P/4AI
104. 200mm - 180nm - Global Foundries (Sing) - NA - CMOS - DGO - 1P/6AI
105. 200mm - 180nm - Global Foundries (Sing) - NA - CMOS - Mixed Sig, RF - 1P/6AI
106. 200mm - 180nm - NXP - NA - CMOS - DGO - 1P/1W/6AI
107. 200mm - 180nm - On Semi (AMI) - ONC18D - CMOS - DGO - 1P/5AI
108. 200mm - 180nm - On Semi (AMI) - ONC18D - CMOS - DGO - 1P/6AI
109. 200mm - 180nm - Rohm - NA - CMOS - DGO - 1P/5AI
110. 200mm - 180nm - SMIC - NA - BCD - NA - 1P/4AI
111. 200mm - 180nm - SMIC - NA - CMOS - DGO - 1P/6AI
112. 200mm - 180nm - STMicro - BCD8 - BCD - NA - 1P/4AI
113. 200mm - 180nm - STMicro - BCD8 - BCD - NA - 1P/5AI
114. 200mm - 180nm - STMicro - BCD8 - BCD - NA - 1P/6AI
115. 200mm - 180nm - STMicro - F8 - CMOS - EEPROM - 2P/4AI
116. 200mm - 180nm - STMicro - NA - EEPROM - EEPROM - 1P/2AI
117. 200mm - 180nm - TowerJazz - NA - BCD - NA - 1P/4AI
118. 200mm - 180nm - TowerJazz - CA18 - CMOS - DGO, RF - 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/4AI
125. 200mm - 180nm - TSMC - NA - CMOS - DGO - 1P/5AI
126. 200mm - 180nm - TSMC - NA - CMOS - DGO, 3Vt, Res, eFlash - 1P/5AI
127. 200mm - 180nm - TSMC - NA - CMOS - DGO - 1P/6AI
128. 200mm - 180nm - TSMC - NA - CMOS - DGO, eFlash - 2P/4AI
129. 200mm - 180nm - TSMC - NA - CMOS - DGO, eFlash - 2P/6AI
130. 200mm - 180nm - TSMC - NA - CMOS - DGO, RF - 1P/4AI
131. 200mm - 180nm - UMC - NA - BCD - NA - 1P/4AI
132. 200mm - 180nm - UMC - NA - CMOS - DGO - 1P/5AI
133. 200mm - 180nm - UMC - NA - CMOS - DGO - 1P/6AI
134. 200mm - 130nm - STMicro - HCMOS9A - CMOS - DGO, eFlash - 1P/4Cu