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

As of the 2021 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 - 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 - 450nm - TDK_Micronas - Hall Effect - 2D - EEPROM - 1P/3AI
68. 200mm - 350nm - ASMC - NA - BiCMOS - EEPROM - 2P/3AI
69. 200mm - 350nm - ASMC - NA - CMOS - EEPROM - 2P/5AI
70. 200mm - 350nm - Freescale - SMOS7 - CMOS - NA - 1P/3AI
71. 200mm - 350nm - Global Foundries (Sing) - NA - CMOS - DGO - 1P/3AI
72. 200mm - 350nm - Global Foundries (Sing) - NA - CMOS - DGO - 1P/4AI
73. 200mm - 350nm - Global Foundries (Sing) - NA - CMOS - DGO, Mixed Sig - 2P/4AI
74. 200mm - 350nm - Global Foundries (Sing) - NA - CMOS - NA - 1P/4AI
75. 200mm - 350nm - NXP - NA - CMOS - eFlash - 2P/5AI
76. 200mm - 350nm - On Semi (AMI) - NA - CMOS - DMOS - 1P/3AI

77. 200mm - 350nm - SMIC - NA - CMOS - NA - 1P/4AI
78. 200mm - 350nm - Robert Bosch - BCD6 - BCDMOS - NA - 1P/3AI
79. 200mm - 350nm - Robert Bosch - BCD6 - BCDMOS - NA - 1P/4AI
80. 200mm - 350nm - Robert Bosch - BCD6 - BCDMOS - NA - 1P/5AI
81. 200mm - 350nm - STMicro - BCD6 - BCD - NA - 1P/3AI
82. 200mm - 350nm - STMicro - BCD6 - BCD - NA - 1P/4AI
83. 200mm - 350nm - STMicro - BCD6 - BCD - NA - 1P/5AI
84. 200mm - 350nm - STMicro - BiCMOS6G - BiCMOS - NA - 3P/5AI
85. 200mm - 350nm - TSMC - NA - CMOS - eFlash - 2P/3AI
86. 200mm - 350nm - TSMC - NA - CMOS - NA - 1P/4AI
87. 200mm - 350nm - UMC - NA - CMOS - NA - 1P/4AI
88. 200mm - 350nm - X-Fab - NA - CMOS - LV, EEPROM, Schottky - 2P/4AI
89. 200mm - 350nm - X-Fab - NA - CMOS - Mixed Sig - 2P/4AI
90. 200mm - 250nm - Freescale - NA - CMOS - eFlash - 2P/3AI
91. 200mm - 250nm - Freescale - NA - CMOS - eFlash - 2P/4AI
92. 200mm - 250nm - Freescale - NA - CMOS - NA - 1P/4AI
93. 200mm - 250nm - Global Foundries (Sing) - NA - CMOS - DGO - 1P/5AI
94. 200mm - 250nm - SMIC - NA - CMOS - DGO - 1P/5AI
95. 200mm - 250nm - STMicro - HCMOS7 - CMOS - NA - 1P/4AI
96. 200mm - 250nm - TSMC - NA - CMOS - NA - 1P/3AI
97. 200mm - 250nm - TSMC - NA - CMOS - DGO - 1P/4AI
98. 200mm - 250nm - TSMC - NA - CMOS - DGO, eFlash - 2P/4AI
99. 200mm - 250nm - TSMC - NA - CMOS - DGO - 1P/5AI
100. 200mm - 250nm - TSMC - NA - CMOS - NA - 1P/6AI
101. 200mm - 250nm - UMC - NA - CMOS - DGO - 1P/5AI
102. 200mm - 180nm - AMS - RGBC+IR - CMOS - image sensor - 1P/4AI
103. 200mm - 180nm - Freescale - NA - CMOS - DGO, eFlash - 1P/5Cu
104. 200mm - 180nm - Freescale - NA - CMOS - RF - 1P/4Cu
105. 200mm - 180nm - Freescale - NA - CMOS - SOI, DGO - 1P/7AI
106. 200mm - 180nm - Global Foundries (Sing) - NA - BCD - NA - 1P/4AI
107. 200mm - 180nm - Global Foundries (Sing) - NA - CMOS - DGO - 1P/6AI
108. 200mm - 180nm - Global Foundries (Sing) - NA - CMOS - Mixed Sig, RF - 1P/6AI
109. 200mm - 180nm - NXP - NA - CMOS - DGO - 1P/1W/6AI
110. 200mm - 180nm - On Semi (AMI) - ONC18D - CMOS - DGO - 1P/5AI
111. 200mm - 180nm - On Semi (AMI) - ONC18D - CMOS - DGO - 1P/6AI
112. 200mm - 180nm - Rohm - NA - CMOS - DGO - 1P/5AI
113. 200mm - 180nm - SMIC - NA - BCD - NA - 1P/4AI
114. 200mm - 180nm - SMIC - NA - CMOS - DGO - 1P/6AI
115. 200mm - 180nm - STMicro - BCD8 - BCD - NA - 1P/4AI
116. 200mm - 180nm - STMicro - BCD8 - BCD - NA - 1P/5AI
117. 200mm - 180nm - STMicro - BCD8 - BCD - NA - 1P/6AI
118. 200mm - 180nm - STMicro - F8 - CMOS - EEPROM - 2P/4AI
119. 200mm - 180nm - STMicro - NA - EEPROM - EEPROM - 1P/2AI
120. 200mm - 180nm - TI - LBC8 - BCD - 65V DMOS - 2P/4AI
121. 200mm - 180nm - TowerJazz - NA - BCD - NA - 1P/4AI
122. 200mm - 180nm - TowerJazz - CA18 - CMOS - DGO, RF - 1P/6AI
123. 200mm - 180nm - TowerJazz - CA18HV MEMS - CMOS - DGO, RF, MEMS Tuner - 1P/6AI
124. 200mm - 180nm - TowerJazz - CA18QG - CMOS - DGO, DNW, MIM, 4Vt - 1P/4AI

125. 200mm - 180nm - TowerJazz - CS18MT1 - CMOS - SOI, MIM, DNW, 2Vt - 1P/3Al
126. 200mm - 180nm - TowerJazz - CS18QT5 - CMOS - SOI, DNW, MIM, 2Vt - 1P/4Al
127. 200mm - 180nm - TowerJazz - SBC18H3 - SiGe - DGO - 1P/6Al
128. 200mm - 180nm - TowerJazz - TS18SL - CMOS - DGO - 1P/6Al
129. 200mm - 180nm - TSMC - NA - BCD - NA - 1P/4Al
130. 200mm - 180nm - TSMC - NA - BCD - DMOS, HVW, Res - 1P/6Al
131. 200mm - 180nm - TSMC - NA - CMOS - DGO - 1P/5Al
132. 200mm - 180nm - TSMC - NA - CMOS - DGO, 3Vt, Res, eFlash - 1P/5Al
133. 200mm - 180nm - TSMC - NA - CMOS - DGO - 1P/6Al
134. 200mm - 180nm - TSMC - NA - CMOS - DGO, eFlash - 2P/4Al
135. 200mm - 180nm - TSMC - NA - CMOS - DGO, eFlash - 2P/6Al
136. 200mm - 180nm - TSMC - NA - CMOS - DGO, RF - 1P/4Al
137. 200mm - 180nm - UMC - NA - BCD - NA - 1P/4Al
138. 200mm - 180nm - UMC - NA - CMOS - DGO - 1P/5Al
139. 200mm - 180nm - UMC - NA - CMOS - DGO - 1P/6Al
140. 200mm - 130nm - STMicro - HCMOS9A - CMOS - DGO, eFlash - 1P/4Cu
141. 300mm - 180nm - TI - LBC8 - BCD - 65V DMOS - 2P/4Al