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| <div>MICROCHIP</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                             |                                                                             | Termination Base Alloy:<br>Copper Alloy (Cu) |           |           | Package Homogeneous Materials:<br>8.1 Electronics (e.g. pc boards, displays)                                                                                                                                                                                                                                                                                                                                                             |                  |               | JEDEC 97<br>Product Marking<br>and/or Pkg.<br>Labeling<br>e3 |             |               |           |                |              |        |                       |            |      |                                                                                                                                                                                    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| Semiconductor Device Type:    LI            (L4X) 028 PLCC 11.5x11.5x4.3 Matte Tin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| Basic Substance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CAS Number                                                                  | Contained In Sub-Component                                                  | % Total Weight                               | mg/part   | ppm       | 818.39                                                                                                                                                                                                                                                                                                                                                                                                                                   | (mg) Total       | Mold Compound | % of Total Weight                                            | 71.63       |               |           |                |              |        |                       |            |      |                                                                                                    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      |           |           |        |           |                                                                                                                                                                                                                                       |            |           |                   |       |             |              |        |                     |         |       |         |           |                                                                                                                                                                                                                                                                                                  |            |                                                                             |                   |      |           |           |         |  |         |                                                                                                            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| Silica, vitreous                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 60676-86-0                                                                  | Mold Compound                                                               | 60.886                                       | 695.635   | 608,855   | <table><tr><td>Silica, vitreous</td><td>60676-86-0</td><td>85.00</td></tr><tr><td>Epoxy Resin</td><td>Trade Secret</td><td>6.13</td></tr><tr><td>Phenolic Resin</td><td>Trade Secret</td><td>6.13</td></tr><tr><td>Epoxy, Cresol Novolac</td><td>29690-82-2</td><td>2.45</td></tr><tr><td>Carbon Black</td><td>1333-86-4</td><td>0.30</td></tr><tr><td colspan="2">Total</td><td>100.00</td></tr></table>                                | Silica, vitreous | 60676-86-0    | 85.00                                                        | Epoxy Resin | Trade Secret  | 6.13      | Phenolic Resin | Trade Secret | 6.13   | Epoxy, Cresol Novolac | 29690-82-2 | 2.45 | Carbon Black                                                                                                                                                                                                                              | 1333-86-4  | 0.30       | Total             |           | 100.00        | <table><tr><td>Copper</td><td>7440-50-8</td><td>97.99</td></tr><tr><td>Silver</td><td>7440-22-4</td><td>1.91</td></tr><tr><td>Zirconium</td><td>7440-67-7</td><td>0.10</td></tr><tr><td>Manganese</td><td>7439-96-5</td><td>0.01</td></tr><tr><td colspan="2">Total</td><td>100.00</td></tr></table> | Copper | 7440-50-8 | 97.99 | Silver | 7440-22-4 | 1.91                                                                                                                                                                                                                                                                                                                                                                                  | Zirconium                                                                                                                                                                                                                                 | 7440-67-7  | 0.10              | Manganese         | 7439-96-5 | 0.01          | Total     |        | 100.00      | <table><tr><td>Copper</td><td>7440-50-8</td><td>25.115</td></tr><tr><td>Silver</td><td>7440-22-4</td><td>4.883</td></tr><tr><td>Zirconium</td><td>7440-67-7</td><td>0.026</td></tr><tr><td>Manganese</td><td>7439-96-5</td><td>0.001</td></tr><tr><td>Silver</td><td>7440-22-4</td><td>0.163</td></tr><tr><td>Epoxy resin</td><td>Trade Secret</td><td>0.051</td></tr><tr><td>Gamma-butyrolactone</td><td>96-48-0</td><td>0.007</td></tr><tr><td>Silicon</td><td>7440-21-3</td><td>1.210</td></tr><tr><td>Gold</td><td>7440-57-5</td><td>0.070</td></tr><tr><td>Tin</td><td>7440-31-5</td><td>1.240</td></tr><tr><td colspan="2">TOTALS:</td><td>100.000</td></tr></table> | Copper | 7440-50-8 | 25.115              | Silver  | 7440-22-4 | 4.883 | Zirconium | 7440-67-7 | 0.026  | Manganese | 7439-96-5                                                                                                                                                                                                                             | 0.001      | Silver    | 7440-22-4         | 0.163 | Epoxy resin | Trade Secret | 0.051  | Gamma-butyrolactone | 96-48-0 | 0.007 | Silicon | 7440-21-3 | 1.210                                                                                                                                                                                                                                                                                            | Gold       | 7440-57-5                                                                   | 0.070             | Tin  | 7440-31-5 | 1.240     | TOTALS: |  | 100.000 | <table><tr><td>Copper</td><td>7440-50-8</td><td>97.99</td></tr><tr><td>Silver</td><td>7440-22-4</td><td>1.91</td></tr><tr><td>Zirconium</td><td>7440-67-7</td><td>0.10</td></tr><tr><td>Manganese</td><td>7439-96-5</td><td>0.01</td></tr><tr><td colspan="2">Total</td><td>100.00</td></tr></table> | Copper | 7440-50-8 | 97.99 | Silver | 7440-22-4 | 1.91 | Zirconium | 7440-67-7 | 0.10 | Manganese | 7439-96-5 | 0.01 | Total |  | 100.00 | <table><tr><td>Copper</td><td>7440-50-8</td><td>25.63</td></tr><tr><td>Silver</td><td>7440-22-4</td><td>1.91</td></tr><tr><td>Zirconium</td><td>7440-67-7</td><td>0.10</td></tr><tr><td>Manganese</td><td>7439-96-5</td><td>0.01</td></tr><tr><td colspan="2">Total</td><td>100.00</td></tr></table> | Copper | 7440-50-8 | 25.63 | Silver | 7440-22-4 | 1.91 | Zirconium | 7440-67-7 | 0.10 | Manganese | 7439-96-5 | 0.01 | Total |  | 100.00 |
| Silica, vitreous                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 60676-86-0                                                                  | 85.00                                                                       |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Epoxy Resin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Trade Secret                                                                | 6.13                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Phenolic Resin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Trade Secret                                                                | 6.13                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Epoxy, Cresol Novolac                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 29690-82-2                                                                  | 2.45                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Carbon Black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1333-86-4                                                                   | 0.30                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                             | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Copper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-50-8                                                                   | 97.99                                                                       |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-22-4                                                                   | 1.91                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Zirconium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7440-67-7                                                                   | 0.10                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Manganese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7439-96-5                                                                   | 0.01                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                             | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Copper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-50-8                                                                   | 25.115                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-22-4                                                                   | 4.883                                                                       |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Zirconium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7440-67-7                                                                   | 0.026                                                                       |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Manganese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7439-96-5                                                                   | 0.001                                                                       |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-22-4                                                                   | 0.163                                                                       |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Epoxy resin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Trade Secret                                                                | 0.051                                                                       |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Gamma-butyrolactone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 96-48-0                                                                     | 0.007                                                                       |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Silicon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7440-21-3                                                                   | 1.210                                                                       |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Gold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7440-57-5                                                                   | 0.070                                                                       |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Tin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7440-31-5                                                                   | 1.240                                                                       |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| TOTALS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| Copper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-50-8                                                                   | 97.99                                                                       |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-22-4                                                                   | 1.91                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Zirconium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7440-67-7                                                                   | 0.10                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Manganese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7439-96-5                                                                   | 0.01                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                             | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Copper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-50-8                                                                   | 25.63                                                                       |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-22-4                                                                   | 1.91                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Zirconium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7440-67-7                                                                   | 0.10                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Manganese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7439-96-5                                                                   | 0.01                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                             | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Epoxy Resin (No bromine, No diantimony trioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Trade Secret                                                                | Mold Compound                                                               | 4.387                                        | 50.127    | 43,873    | <table><tr><td>(mg) Total</td><td>Lead Frame</td><td>% of Total Weight</td><td>25.63</td></tr><tr><td>Copper</td><td>7440-50-8</td><td>97.99</td><td></td></tr><tr><td>Silver</td><td>7440-22-4</td><td>1.91</td><td></td></tr><tr><td>Zirconium</td><td>7440-67-7</td><td>0.10</td><td></td></tr><tr><td>Manganese</td><td>7439-96-5</td><td>0.01</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table> | (mg) Total       | Lead Frame    | % of Total Weight                                            | 25.63       | Copper        | 7440-50-8 | 97.99          |              | Silver | 7440-22-4             | 1.91       |      | Zirconium                                                                                                                                                                                                                                 | 7440-67-7  | 0.10       |                   | Manganese | 7439-96-5     | 0.01                                                                                                                                                                                                                                                                                                 |        | Total     |       | 100.00 |           | <table><tr><td>(mg) Total</td><td>Die Attach</td><td>% of Total Weight</td><td>0.22</td></tr><tr><td>Silver</td><td>7440-22-4</td><td>74.00</td><td></td></tr><tr><td>Epoxy resin</td><td>Trade Secret</td><td>23.00</td><td></td></tr><tr><td>Gamma-butyrolactone</td><td>96-48-0</td><td>3.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table> | (mg) Total                                                                                                                                                                                                                                | Die Attach | % of Total Weight | 0.22              | Silver    | 7440-22-4     | 74.00     |        | Epoxy resin | Trade Secret                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 23.00  |           | Gamma-butyrolactone | 96-48-0 | 3.00      |       | Total     |           | 100.00 |           | <table><tr><td>(mg) Total</td><td>Wire Bond</td><td>% of Total Weight</td><td>0.07</td></tr><tr><td>Doped Gold</td><td>7440-57-5</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table> | (mg) Total | Wire Bond | % of Total Weight | 0.07  | Doped Gold  | 7440-57-5    | 100.00 |                     | Total   |       | 100.00  |           | <table><tr><td>(mg) Total</td><td>Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour</td><td>% of Total Weight</td><td>1.24</td></tr><tr><td>Tin</td><td>7440-31-5</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table> | (mg) Total | Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour | % of Total Weight | 1.24 | Tin       | 7440-31-5 | 100.00  |  | Total   |                                                                                                                                                                                                                                                                                                      | 100.00 |           |       |        |           |      |           |           |      |           |           |      |       |  |        |                                                                                                                                                                                                                                                                                                      |        |           |       |        |           |      |           |           |      |           |           |      |       |  |        |
| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Lead Frame                                                                  | % of Total Weight                                                           | 25.63                                        |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Copper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-50-8                                                                   | 97.99                                                                       |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-22-4                                                                   | 1.91                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Zirconium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7440-67-7                                                                   | 0.10                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Manganese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7439-96-5                                                                   | 0.01                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Die Attach                                                                  | % of Total Weight                                                           | 0.22                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-22-4                                                                   | 74.00                                                                       |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Epoxy resin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Trade Secret                                                                | 23.00                                                                       |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Gamma-butyrolactone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 96-48-0                                                                     | 3.00                                                                        |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                             | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Wire Bond                                                                   | % of Total Weight                                                           | 0.07                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Gold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7440-57-5                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour | % of Total Weight                                                           | 1.24                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                                                                                                                                                           |            |            |                   |           |               |                                                                                                                                                                                                                                                                                                      |        |           |       |        |           |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                           |            |                   |                   |           |               |           |        |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |           |                     |         |           |       |           |           |        |           |                                                                                                                                                                                                                                       |            |           |                   |       |             |              |        |                     |         |       |         |           |                                                                                                                                                                                                                                                                                                  |            |                                                                             |                   |      |           |           |         |  |         |                                                                                                                                                                                                                                                                                                      |        |           |       |        |           |      |           |           |      |           |           |      |       |  |        |                                                                                                                                                                                                                                                                                                      |        |           |       |        |           |      |           |           |      |           |           |      |       |  |        |
| Tin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7440-31-5                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Phenolic Resin (No Br / CL SbO3, No diantimony trioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Trade Secret                                                                | Mold Compound                                                               | 4.387                                        | 50.127    | 43,873    | <table><tr><td>(mg) Total</td><td>Chip (Die)</td><td>% of Total Weight</td><td>1.21</td></tr><tr><td>Doped Silicon</td><td>7440-21-3</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table>                                                                                                                                                                                                | (mg) Total       | Chip (Die)    | % of Total Weight                                            | 1.21        | Doped Silicon | 7440-21-3 | 100.00         |              | Total  |                       | 100.00     |      | <table><tr><td>(mg) Total</td><td>Wire Bond</td><td>% of Total Weight</td><td>0.07</td></tr><tr><td>Doped Gold</td><td>7440-57-5</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table>     | (mg) Total | Wire Bond  | % of Total Weight | 0.07      | Doped Gold    | 7440-57-5                                                                                                                                                                                                                                                                                            | 100.00 |           | Total |        | 100.00    |                                                                                                                                                                                                                                                                                                                                                                                       | <table><tr><td>(mg) Total</td><td>Chip (Die)</td><td>% of Total Weight</td><td>1.21</td></tr><tr><td>Doped Silicon</td><td>7440-21-3</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table> | (mg) Total | Chip (Die)        | % of Total Weight | 1.21      | Doped Silicon | 7440-21-3 | 100.00 |             | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        | 100.00    |                     |         |           |       |           |           |        |           |                                                                                                                                                                                                                                       |            |           |                   |       |             |              |        |                     |         |       |         |           |                                                                                                                                                                                                                                                                                                  |            |                                                                             |                   |      |           |           |         |  |         |                                                           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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Chip (Die)                                                                  | % of Total Weight                                                           | 1.21                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Silicon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7440-21-3                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Wire Bond                                                                   | % of Total Weight                                                           | 0.07                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Gold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7440-57-5                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Chip (Die)                                                                  | % of Total Weight                                                           | 1.21                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Silicon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7440-21-3                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Epoxy, Cresol Novolac                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 29690-82-2                                                                  | Mold Compound                                                               | 1.755                                        | 20.051    | 17,549    | <table><tr><td>(mg) Total</td><td>Wire Bond</td><td>% of Total Weight</td><td>0.07</td></tr><tr><td>Doped Gold</td><td>7440-57-5</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table>                                                                                                                                                                                                    | (mg) Total       | Wire Bond     | % of Total Weight                                            | 0.07        | Doped Gold    | 7440-57-5 | 100.00         |              | Total  |                       | 100.00     |      | <table><tr><td>(mg) Total</td><td>Chip (Die)</td><td>% of Total Weight</td><td>1.21</td></tr><tr><td>Doped Silicon</td><td>7440-21-3</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table> | (mg) Total | Chip (Die) | % of Total Weight | 1.21      | Doped Silicon | 7440-21-3                                                                                                                                                                                                                                                                                            | 100.00 |           | Total |        | 100.00    |                                                                                                                                                                                                                                                                                                                                                                                       |                                   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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Wire Bond                                                                   | % of Total Weight                                                           | 0.07                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Gold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7440-57-5                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Chip (Die)                                                                  | % of Total Weight                                                           | 1.21                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Silicon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7440-21-3                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Carbon Black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1333-86-4                                                                   | Mold Compound                                                               | 0.215                                        | 2.455     | 2,149     | <table><tr><td>(mg) Total</td><td>Wire Bond</td><td>% of Total Weight</td><td>0.07</td></tr><tr><td>Doped Gold</td><td>7440-57-5</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table>                                                                                                                                                                                                    | (mg) Total       | Wire Bond     | % of Total Weight                                            | 0.07        | Doped Gold    | 7440-57-5 | 100.00         |              | Total  |                       | 100.00     |      | <table><tr><td>(mg) Total</td><td>Chip (Die)</td><td>% of Total Weight</td><td>1.21</td></tr><tr><td>Doped Silicon</td><td>7440-21-3</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table> | (mg) Total | Chip (Die) | % of Total Weight | 1.21      | Doped Silicon | 7440-21-3                                                                                                                                                                                                                                                                                            | 100.00 |           | Total |        | 100.00    |                                                                                                                                                                                                                                                                                                                                                                                       |                                   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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Wire Bond                                                                   | % of Total Weight                                                           | 0.07                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Gold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7440-57-5                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Chip (Die)                                                                  | % of Total Weight                                                           | 1.21                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Silicon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7440-21-3                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Copper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-50-8                                                                   | Lead Frame                                                                  | 25.115                                       | 286.945   | 251,148   | <table><tr><td>(mg) Total</td><td>Wire Bond</td><td>% of Total Weight</td><td>0.07</td></tr><tr><td>Doped Gold</td><td>7440-57-5</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table>                                                                                                                                                                                                    | (mg) Total       | Wire Bond     | % of Total Weight                                            | 0.07        | Doped Gold    | 7440-57-5 | 100.00         |              | Total  |                       | 100.00     |      | <table><tr><td>(mg) Total</td><td>Chip (Die)</td><td>% of Total Weight</td><td>1.21</td></tr><tr><td>Doped Silicon</td><td>7440-21-3</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table> | (mg) Total | Chip (Die) | % of Total Weight | 1.21      | Doped Silicon | 7440-21-3                                                                                                                                                                                                                                                                                            | 100.00 |           | Total |        | 100.00    |                                                                                                                                                                                                                                                                                                                                                                                       |                                   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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Wire Bond                                                                   | % of Total Weight                                                           | 0.07                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Gold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7440-57-5                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                             | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Chip (Die)                                                                  | % of Total Weight                                                           | 1.21                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Silicon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7440-21-3                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-22-4                                                                   | Lead Frame                                                                  | 0.488                                        | 5.578     | 4,883     | <table><tr><td>(mg) Total</td><td>Wire Bond</td><td>% of Total Weight</td><td>0.07</td></tr><tr><td>Doped Gold</td><td>7440-57-5</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table>                                                                                                                                                                                                    | (mg) Total       | Wire Bond     | % of Total Weight                                            | 0.07        | Doped Gold    | 7440-57-5 | 100.00         |              | Total  |                       | 100.00     |      | <table><tr><td>(mg) Total</td><td>Chip (Die)</td><td>% of Total Weight</td><td>1.21</td></tr><tr><td>Doped Silicon</td><td>7440-21-3</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table> | (mg) Total | Chip (Die) | % of Total Weight | 1.21      | Doped Silicon | 7440-21-3                                                                                                                                                                                                                                                                                            | 100.00 |           | Total |        | 100.00    |                                                                                                                                                                                                                                                                                                                                                                                       |                                   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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Wire Bond                                                                   | % of Total Weight                                                           | 0.07                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Gold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7440-57-5                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Chip (Die)                                                                  | % of Total Weight                                                           | 1.21                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Silicon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7440-21-3                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Zirconium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7440-67-7                                                                   | Lead Frame                                                                  | 0.026                                        | 0.293     | 256       | <table><tr><td>(mg) Total</td><td>Wire Bond</td><td>% of Total Weight</td><td>0.07</td></tr><tr><td>Doped Gold</td><td>7440-57-5</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table>                                                                                                                                                                                                    | (mg) Total       | Wire Bond     | % of Total Weight                                            | 0.07        | Doped Gold    | 7440-57-5 | 100.00         |              | Total  |                       | 100.00     |      | <table><tr><td>(mg) Total</td><td>Chip (Die)</td><td>% of Total Weight</td><td>1.21</td></tr><tr><td>Doped Silicon</td><td>7440-21-3</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table> | (mg) Total | Chip (Die) | % of Total Weight | 1.21      | Doped Silicon | 7440-21-3                                                                                                                                                                                                                                                                                            | 100.00 |           | Total |        | 100.00    |                                                                                                                                                                                                                                                                                                                                                                                       |                                   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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Wire Bond                                                                   | % of Total Weight                                                           | 0.07                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Gold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7440-57-5                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Chip (Die)                                                                  | % of Total Weight                                                           | 1.21                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Silicon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7440-21-3                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Manganese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7439-96-5                                                                   | Lead Frame                                                                  | 0.001                                        | 0.015     | 13        | <table><tr><td>(mg) Total</td><td>Wire Bond</td><td>% of Total Weight</td><td>0.07</td></tr><tr><td>Doped Gold</td><td>7440-57-5</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table>                                                                                                                                                                                                    | (mg) Total       | Wire Bond     | % of Total Weight                                            | 0.07        | Doped Gold    | 7440-57-5 | 100.00         |              | Total  |                       | 100.00     |      | <table><tr><td>(mg) Total</td><td>Chip (Die)</td><td>% of Total Weight</td><td>1.21</td></tr><tr><td>Doped Silicon</td><td>7440-21-3</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table> | (mg) Total | Chip (Die) | % of Total Weight | 1.21      | Doped Silicon | 7440-21-3                                                                                                                                                                                                                                                                                            | 100.00 |           | Total |        | 100.00    |                                                                                                                                                                                                                                                                                                                                                                                       |                                   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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Wire Bond                                                                   | % of Total Weight                                                           | 0.07                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Gold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7440-57-5                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Chip (Die)                                                                  | % of Total Weight                                                           | 1.21                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Silicon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7440-21-3                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7440-22-4                                                                   | Die Attach                                                                  | 0.163                                        | 1.860     | 1,628     | <table><tr><td>(mg) Total</td><td>Wire Bond</td><td>% of Total Weight</td><td>0.07</td></tr><tr><td>Doped Gold</td><td>7440-57-5</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table>                                                                                                                                                                                                    | (mg) Total       | Wire Bond     | % of Total Weight                                            | 0.07        | Doped Gold    | 7440-57-5 | 100.00         |              | Total  |                       | 100.00     |      | <table><tr><td>(mg) Total</td><td>Chip (Die)</td><td>% of Total Weight</td><td>1.21</td></tr><tr><td>Doped Silicon</td><td>7440-21-3</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table> | (mg) Total | Chip (Die) | % of Total Weight | 1.21      | Doped Silicon | 7440-21-3                                                                                                                                                                                                                                                                                            | 100.00 |           | Total |        | 100.00    |                                                                                                                                                                                                                                                                                                                                                                                       |                                   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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Wire Bond                                                                   | % of Total Weight                                                           | 0.07                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Gold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7440-57-5                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Chip (Die)                                                                  | % of Total Weight                                                           | 1.21                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Silicon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7440-21-3                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Epoxy resin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Trade Secret                                                                | Die Attach                                                                  | 0.051                                        | 0.578     | 506       | <table><tr><td>(mg) Total</td><td>Wire Bond</td><td>% of Total Weight</td><td>0.07</td></tr><tr><td>Doped Gold</td><td>7440-57-5</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table>                                                                                                                                                                                                    | (mg) Total       | Wire Bond     | % of Total Weight                                            | 0.07        | Doped Gold    | 7440-57-5 | 100.00         |              | Total  |                       | 100.00     |      | <table><tr><td>(mg) Total</td><td>Chip (Die)</td><td>% of Total Weight</td><td>1.21</td></tr><tr><td>Doped Silicon</td><td>7440-21-3</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table> | (mg) Total | Chip (Die) | % of Total Weight | 1.21      | Doped Silicon | 7440-21-3                                                                                                                                                                                                                                                                                            | 100.00 |           | Total |        | 100.00    |                                                                                                                                                                                                                                                                                                                                                                                       |                                   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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Wire Bond                                                                   | % of Total Weight                                                           | 0.07                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Gold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7440-57-5                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Chip (Die)                                                                  | % of Total Weight                                                           | 1.21                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Silicon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7440-21-3                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Gamma-butyrolactone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 96-48-0                                                                     | Die Attach                                                                  | 0.007                                        | 0.075     | 66        | <table><tr><td>(mg) Total</td><td>Wire Bond</td><td>% of Total Weight</td><td>0.07</td></tr><tr><td>Doped Gold</td><td>7440-57-5</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table>                                                                                                                                                                                                    | (mg) Total       | Wire Bond     | % of Total Weight                                            | 0.07        | Doped Gold    | 7440-57-5 | 100.00         |              | Total  |                       | 100.00     |      | <table><tr><td>(mg) Total</td><td>Chip (Die)</td><td>% of Total Weight</td><td>1.21</td></tr><tr><td>Doped Silicon</td><td>7440-21-3</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table> | (mg) Total | Chip (Die) | % of Total Weight | 1.21      | Doped Silicon | 7440-21-3                                                                                                                                                                                                                                                                                            | 100.00 |           | Total |        | 100.00    |                                                                                                                                                                                                                                                                                                                                                                                       |                                   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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Wire Bond                                                                   | % of Total Weight                                                           | 0.07                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Gold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7440-57-5                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Chip (Die)                                                                  | % of Total Weight                                                           | 1.21                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Silicon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7440-21-3                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Silicon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7440-21-3                                                                   | Chip (Die)                                                                  | 1.210                                        | 13.825    | 12,100    | <table><tr><td>(mg) Total</td><td>Wire Bond</td><td>% of Total Weight</td><td>0.07</td></tr><tr><td>Doped Gold</td><td>7440-57-5</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table>                                                                                                                                                                                                    | (mg) Total       | Wire Bond     | % of Total Weight                                            | 0.07        | Doped Gold    | 7440-57-5 | 100.00         |              | Total  |                       | 100.00     |      | <table><tr><td>(mg) Total</td><td>Chip (Die)</td><td>% of Total Weight</td><td>1.21</td></tr><tr><td>Doped Silicon</td><td>7440-21-3</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table> | (mg) Total | Chip (Die) | % of Total Weight | 1.21      | Doped Silicon | 7440-21-3                                                                                                                                                                                                                                                                                            | 100.00 |           | Total |        | 100.00    |                                                                                                                                                                                                                                                                                                                                                                                       |                                   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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Wire Bond                                                                   | % of Total Weight                                                           | 0.07                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Gold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7440-57-5                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Chip (Die)                                                                  | % of Total Weight                                                           | 1.21                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Silicon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7440-21-3                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Gold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7440-57-5                                                                   | Wire Bond                                                                   | 0.070                                        | 0.800     | 700       | <table><tr><td>(mg) Total</td><td>Wire Bond</td><td>% of Total Weight</td><td>0.07</td></tr><tr><td>Doped Gold</td><td>7440-57-5</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table>                                                                                                                                                                                                    | (mg) Total       | Wire Bond     | % of Total Weight                                            | 0.07        | Doped Gold    | 7440-57-5 | 100.00         |              | Total  |                       | 100.00     |      | <table><tr><td>(mg) Total</td><td>Chip (Die)</td><td>% of Total Weight</td><td>1.21</td></tr><tr><td>Doped Silicon</td><td>7440-21-3</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table> | (mg) Total | Chip (Die) | % of Total Weight | 1.21      | Doped Silicon | 7440-21-3                                                                                                                                                                                                                                                                                            | 100.00 |           | Total |        | 100.00    |                                                                                                                                                                                                                                                                                                                                                                                       |                                   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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Wire Bond                                                                   | % of Total Weight                                                           | 0.07                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Gold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7440-57-5                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                             | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Chip (Die)                                                                  | % of Total Weight                                                           | 1.21                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Silicon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7440-21-3                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Tin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7440-31-5                                                                   | Plating on external leads (pins) - Matte Tin / annealed at 150°C for 1 hour | 1.240                                        | 14.167    | 12,400    | <table><tr><td>(mg) Total</td><td>Wire Bond</td><td>% of Total Weight</td><td>0.07</td></tr><tr><td>Doped Gold</td><td>7440-57-5</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table>                                                                                                                                                                                                    | (mg) Total       | Wire Bond     | % of Total Weight                                            | 0.07        | Doped Gold    | 7440-57-5 | 100.00         |              | Total  |                       | 100.00     |      | <table><tr><td>(mg) Total</td><td>Chip (Die)</td><td>% of Total Weight</td><td>1.21</td></tr><tr><td>Doped Silicon</td><td>7440-21-3</td><td>100.00</td><td></td></tr><tr><td colspan="2">Total</td><td>100.00</td><td></td></tr></table> | (mg) Total | Chip (Die) | % of Total Weight | 1.21      | Doped Silicon | 7440-21-3                                                                                                                                                                                                                                                                                            | 100.00 |           | Total |        | 100.00    |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                           |            |                   |                   |           |               |           |        |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |           |                     |         |           |       |           |           |        |           |                                                                                                                                                                                                                                       |            |           |                   |       |             |              |        |                     |         |       |         |           |                                                                                                                                                                                                                                                                                                  |            |                                                                             |                   |      |           |           |         |  |         |                                                                                                                                                                                                                                                                                                      |        |           |       |        |           |      |           |           |      |           |           |      |       |  |        |                                                                                                                                                                                                                                                                                                      |        |           |       |        |           |      |           |           |      |           |           |      |       |  |        |
| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Wire Bond                                                                   | % of Total Weight                                                           | 0.07                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Gold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7440-57-5                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| (mg) Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Chip (Die)                                                                  | % of Total Weight                                                           | 1.21                                         |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Doped Silicon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7440-21-3                                                                   | 100.00                                                                      |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| TOTALS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                             |                                                                             | 100.000                                      | 1,142.530 | 1,000,000 |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                    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| 1.1425 g Total Mass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| This semiconductor device and its homogenous materials comply with EU Directives: 2002/95/EC (27 January 2003) & Directive 2011/65/EU (08 June 2011) and 2015/863/EU (31 March 2015) and 2002/53/EC (End-of-Life Vehicles (ELV) without exemption (zero)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Compliance with the above EU Directives has been verified via internal design controls, supplier declarations, and /or analytical test data.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| If a chemical substance is absent from the list above, the chemical substance is NOT an intentional ingredient in the semiconductor device and, to the best of Microchip Technology Incorporated's knowledge and belief as of the date of this document, there is no credible reason to believe that the unavoidable impurity concentration of the chemical substance, if any, is not below the threshold of regulatory concern for any regulatory scheme world-wide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Molding compounds used by Microchip meet the UL94 V0 flammability standard for plastics. You can access the UL iQTM family of databases to obtain a test report at <a href="http://ul.com/global/eng/pages/offerings/industries/chemicals/plastics/">http://ul.com/global/eng/pages/offerings/industries/chemicals/plastics/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                     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| The protective "tubes" in which the specific product is shipped are made from polyvinyl chloride (PVC) plastic. "Window envelopes" used to hold the packing slip on the outer box and certain "reels" may be made from PVC plastic.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                             |              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| Microchip Technology Incorporated believes the information in this form concerning substances restricted by RoHS in Microchip Technology Incorporated's semiconductor devices in their original packing materials is true and correct to the best of its knowledge and belief, as of the date listed in this form. Microchip Technology Incorporated cannot guarantee the completeness and accuracy of data in this form because it has been compiled based on the ranges provided in Material Safety Data Sheets provided by raw material suppliers. Supplier information is often protected from disclosure as trade secrets and some information may not have been provided by subcontract assemblers and raw material suppliers. Information is provided only as estimates of the average weight of these parts and the average weight of anticipated significant toxic metals components. These estimates do not include trace levels of dopants, metals, and non-metal materials contained within silicon devices (silicon IC) in the finished parts. |                                                                             |                                                                             |                                              |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |               |                                                              |             |               |           |                |              |        |                       |            |      |                                                                                                                                                                                                                                           |            |            |                   |           |               |                                                                                                                                                                                                                                                                                                      |        |           |       |        |           |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                           |            |                   |                   |           |               |           |        |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |           |                     |         |           |       |           |           |        |           |                                                                                                                                                                                                                                       |            |           |                   |       |             |              |        |                     |         |       |         |           |                                                                                                                                                                                                                                                                                                  |            |                                                                             |                   |      |           |           |         |  |         |                                                                                                                                                                                                                                                                                                      |        |           |       |        |           |      |           |           |      |           |           |      |       |  |        |                                                                                                                                                                                                                                                                                                      |        |           |       |        |           |      |           |           |      |           |           |      |       |  |        |
| Microchip Technology Incorporated does not provide any warranty, express or implied, with respect to the information provided in this declaration. The exclusive, limited product warranties provided by Microchip Technology Incorporated and its subsidiaries are contained in Microchip's standard terms and conditions of sale. These are provided in Microchip's quotations, sales order acknowledgement, and invoices.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                             |                                                                             |                                              |           |           |                                                                             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| Microchip disclaims any duty to notify users of updates or changes to Material Content Declarations and shall not be liable for any damages, direct or indirect, consequential or otherwise, suffered by users or third parties as a result of the users' reliance on the information in Material Content Declarations (MCD) or independent third party test reports (SGS) or of this Certificate of Compliance for semiconductor products.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| Assembled package referenced above is EU REACH compliant based on the latest SVHC candidate list of ECHA which can be found at <a href="http://echa.europa.eu/web/guest/candidate-list-table">http://echa.europa.eu/web/guest/candidate-list-table</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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