



# 100% Material Declaration Data Sheet CPG56

PK100 (v1.2) September 28, 2006

Material Declaration Data Sheet

**Average Weight: 0.1 g**

| Component                  | Substance Description       | CAS# or Description     | % of Component | Use in Product  | Component Weight/<br>Substance Weight<br>(in grams) | Component %<br>of Total |
|----------------------------|-----------------------------|-------------------------|----------------|-----------------|---|-------------------------|
| <b>Silicon Die</b>         |                             |                         |                |                 | <b>0.00215</b>                                      | <b>2.15%</b>            |
|                            | Silicon                     | 7440-21-3               | 100.00         |                 | 0.00215   |                         |
| <b>Die Attach Material</b> |                             |                         |                |                 | <b>0.0005</b>                                       | <b>0.50%</b>            |
|                            | Silver                      | 7440-22-4               | 78.00          |                 | 0.00039   |                         |
|                            | Resin (EP)                  | Trade Secret            | 22.00          |                 | 0.00011   |                         |
| <b>Encapsulant</b>         |                             |                         |                |                 | <b>0.03956</b>                                      | <b>39.56%</b>           |
|                            | Epoxy Resins                | Trade Secret            | 6.00           |                 | 0.0023736   |                         |
|                            | Phenolic Resins             | Trade Secret            | 6.00           |                 | 0.0023736   |                         |
|                            | Carbon Black                | 1333-86-4               | 0.50           |                 | 0.0001978   |                         |
|                            | Silica                      | 60676-86-0              | 84.00          |                 | 0.0332304   |                         |
|                            | Bismuth                     | 7440-69-9               | Max 1.00       |                 | 0.0003956   |                         |
|                            | Metal Hydroxide             | Trade Secret            | 2.50           |                 | 0.000989  |                         |
| <b>Laminate</b>            |                             |                         |                |                 | <b>0.0126</b>                                       | <b>12.60%</b>           |
|                            | Bismaleimide/Triazine Board | 13676-54-5 / 25722-66-1 | 72.285         |                 | 0.00910791  |                         |
|                            | Copper                      | 7440-50-8               | 9.780          |                 | 0.00123228  |                         |
|                            | Nickel                      | 7440-02-0               | 7.890          |                 | 0.00099414  |                         |
|                            | Gold                        | 7440-57-5               | 1.140          |                 | 0.00014364  |                         |
|                            | Antimony Pentoxide          | 1314-60-9               | 0.005          | Flame Retardant | 0.00000063  |                         |
|                            | Brominated Resin            | 68541-56-0              | 8.900          | Flame Retardant | 0.0011214   |                         |
| <b>Bond Wire</b>           |                             |                         |                |                 | <b>0.00023</b>                                      | <b>0.23%</b>            |
|                            | Gold                        | 7440-57-5               | 100.00         |                 | 0.00023   |                         |
| <b>Solder Balls</b>        |                             |                         |                |                 | <b>0.04496</b>                                      | <b>44.96%</b>           |
|                            | Tin                         | 7440-31-5               | 95.50          |                 | 0.0429368   |                         |
|                            | Silver                      | 7440-22-4               | 4.00           |                 | 0.0017984   |                         |
|                            | Copper                      | 7440-50-8               | 0.50           |                 | 0.0002248   |                         |

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## Revision History

The following table shows the revision history for this document.

| Date    | Revision | Revision                        |
|---------|----------|---------------------------------|
| 3/20/06 | 1.0      | Initial release.                |
| 6/01/06 | 1.1      | 100% Material Declaration.      |
| 9/28/06 | 1.2      | Updated component descriptions. |