



# 100% Material Declaration Data Sheet PQG160

PK122 (v1.2.1) October 19, 2006

Material Declaration Data Sheet

**Average Weight: 5.8 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>0.07366</b>                                      | <b>1.27%</b>            |
|                            | Silicon               | 7440-21-3           | 100.00         |                | 0.07366   |                         |
| <b>Die Attach Material</b> |                       |                     |                |                | <b>0.00928</b>                                      | <b>0.16%</b>            |
|                            | Silver                | 7440-22-4           | 78.00          |                | 0.0072384   |                         |
|                            | Epoxy (EP)            | Trade Secret        | 22.00          |                | 0.0020416   |                         |
| <b>Mold Compound</b>       |                       |                     |                |                | <b>4.92304</b>                                      | <b>84.88%</b>           |
|                            | Epoxy Resin (EP)      | Trade Secret        | 9.00           |                | 0.4430736   |                         |
|                            | Phenolic Resin        | Trade Secret        | 7.00           |                | 0.3446128   |                         |
|                            | Carbon Black          | 1333-86-4           | 0.50           |                | 0.0246152   |                         |
|                            | Silica                | 60676-86-0          | 82.50          |                | 4.061508  |                         |
|                            | Bismuth               | 7440-69-9           | Max 1.00       |                | 0.0492304   |                         |
| <b>Leadframe</b>           |                       |                     |                |                | <b>0.73486</b>                                      | <b>12.67%</b>           |
|                            | Copper                | 7440-50-8           | 98.85          |                | 0.72640911  |                         |
|                            | Chromium              | 7440-47-3           | 0.30           |                | 0.00220458  |                         |
|                            | Tin                   | 7440-31-5           | 0.25           |                | 0.00183715  |                         |
|                            | Zinc                  | 7440-66-6           | 0.60           |                | 0.00440916  |                         |
| <b>Leadframe Plating</b>   |                       |                     |                |                | <b>0.00638</b>                                      | <b>0.11%</b>            |
|                            | Silver                | 7440-22-4           | 100.00         |                | 0.00638   |                         |
| <b>Bond Wire</b>           |                       |                     |                |                | <b>0.01392</b>                                      | <b>0.24%</b>            |
|                            | Gold                  | 7440-57-5           | 100.00         |                | 0.01392   |                         |
| <b>Ext. Plating</b>        |                       |                     |                |                | <b>0.03886</b>                                      | <b>0.67 %</b>           |
|                            | Tin                   | 7440-31-5           | 100.00         |                | 0.03886   |                         |

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## Revision History

The following table shows the revision history for this document.

| Date     | Revision | Revision   |
|----------|----------|--|
| 3/08/06  | 1.0      | Initial release.   |
| 7/05/06  | 1.1      | 100% Material Declaration.                                 |
| 9/28/06  | 1.2      | Updated component descriptions.                            |
| 10/19/06 | 1.2.1    | Editorial change; corrected typo in Substance Description. |