



# 100% Material Declaration Data Sheet HQG240

PK120 (v1.2) September 28, 2006

Material Declaration Data Sheet

**Average Weight: 15.35571 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>0.22748</b>                                      | <b>1.48%</b>            |
|                               | Silicon               | 7440-21-3           | 100.00         |                | <b>0.22748</b>                                      |                         |
| <b>Die Attach Material</b>    |                       |                     |                |                | <b>0.01916</b>                                      | <b>0.12</b>             |
|                               | Silver                | 7440-22-4           | 75.00          |                | <b>0.014368</b>                                     |                         |
|                               | Epoxy (EP)            | Trade Secret        | 25.00          |                | <b>0.004789</b>                                     |                         |
| <b>Mold Compound</b>          |                       |                     |                |                | <b>3.96134</b>                                      | <b>25.80%</b>           |
|                               | Epoxy Resin (EP)      | Trade Secret        | 16.00          |                | <b>0.633815</b>                                     |                         |
|                               | Silica                | 60676-86-0          | 84.00          |                | <b>3.327527</b>                                     |                         |
| <b>Leadframe</b>              |                       |                     |                |                | <b>0.53985</b>                                      | <b>3.52%</b>            |
|                               | Copper                | 7440-50-8           | 99.25          |                | <b>0.535804</b>                                     |                         |
|                               | Chromium              | 7440-47-3           | 0.30           |                | <b>0.001620</b>                                     |                         |
|                               | Tin                   | 7440-31-5           | 0.25           |                | <b>0.001350</b>                                     |                         |
|                               | Zinc                  | 7440-66-6           | 0.20           |                | <b>0.001080</b>                                     |                         |
| <b>Leadframe Plating</b>      |                       |                     |                |                | <b>0.00161</b>                                      | <b>0.01%</b>            |
|                               | Silver                | 7440-22-4           | 100.00         |                | <b>0.00161</b>                                      |                         |
| <b>Heat Slug</b>              |                       |                     |                |                | <b>10.54917</b>                                     | <b>68.70%</b>           |
|                               | Copper                | 7429-50-8           | 100.00         |                | <b>10.54917</b>                                     |                         |
| <b>Ext. Heat Sink plating</b> |                       |                     |                |                | <b>0.00706</b>                                      | <b>0.05%</b>            |
|                               | Nickel                | 7440-02-0           | 100.00         |                | <b>0.00706</b>                                      |                         |
| <b>Bond Wire</b>              |                       |                     |                |                | <b>0.00826</b>                                      | <b>0.05%</b>            |
|                               | Gold                  | 7440-57-5           | 100.00         |                | <b>0.00826</b>                                      |                         |
| <b>Ext. Plating</b>           |                       |                     |                |                | <b>0.04178</b>                                      | <b>0.27</b>             |
|                               | Tin                   | 7440-31-5           | 100.00         |                | <b>0.04178</b>                                      |                         |

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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. |