



## Material Content Data Sheet



| <b>Sales Product Name</b> |                    | SKP02N60       |                       | <b>Issued</b>  |                        | 29. August 2013 |                          |              |
|---------------------------|--------------------|----------------|-----------------------|----------------|------------------------|-----------------|--------------------------|--------------|
| <b>MA#</b>                |                    | MA000846678    |                       |                |                        |                 |                          |              |
| <b>Package</b>            |                    | PG-TO220-3-1   |                       | <b>Weight*</b> |                        | 2029.40 mg      |                          |              |
| Construction Element      | Material Group     | Substances     | CAS#<br>if applicable | Weight<br>[mg] | Average<br>Mass<br>[%] | Sum<br>[%]      | Average<br>Mass<br>[ppm] | Sum<br>[ppm] |
| chip                      | inorganic material | silicon        | 7440-21-3             | 1.014          | 0.05                   | 0.05            | 500                      | 500          |
| leadframe                 | non noble metal    | iron           | 7439-89-6             | 0.816          | 0.04                   |                 | 402                      |              |
|                           | inorganic material | phosphorus     | 7723-14-0             | 0.245          | 0.01                   |                 | 121                      |              |
|                           | non noble metal    | copper         | 7440-50-8             | 815.335        | 40.18                  | 40.23           | 401762                   | 402285       |
| wire                      | non noble metal    | aluminium      | 7429-90-5             | 1.009          | 0.05                   | 0.05            | 497                      | 497          |
| encapsulation             | organic material   | carbon black   | 1333-86-4             | 5.981          | 0.29                   |                 | 2947                     |              |
|                           | plastics           | epoxy resin    | -                     | 113.647        | 5.60                   |                 | 56001                    |              |
|                           | inorganic material | silicondioxide | 60676-86-0            | 478.516        | 23.58                  | 29.47           | 235792                   | 294740       |
| leadfinish                | non noble metal    | tin            | 7440-31-5             | 21.462         | 1.06                   | 1.06            | 10576                    | 10576        |
| plating                   | non noble metal    | nickel         | 7440-02-0             | 0.244          | 0.01                   |                 | 120                      |              |
|                           | inorganic material | phosphorus     | 7723-14-0             | 0.001          | 0.00                   | 0.01            | 0                        | 120          |
| solder                    | non noble metal    | antimony       | 7440-36-0             | 0.090          | 0.00                   |                 | 44                       |              |
|                           | noble metal        | silver         | 7440-22-4             | 0.224          | 0.01                   |                 | 110                      |              |
|                           | non noble metal    | tin            | 7440-31-5             | 0.583          | 0.03                   | 0.04            | 287                      | 441          |
| heatspreader              | non noble metal    | iron           | 7439-89-6             | 0.590          | 0.03                   |                 | 291                      |              |
|                           | inorganic material | phosphorus     | 7723-14-0             | 0.177          | 0.01                   |                 | 87                       |              |
|                           | non noble metal    | copper         | 7440-50-8             | 589.466        | 29.05                  | 29.09           | 290463                   | 290841       |
| *deviation                | < 10%              |                | Sum in total:         |                |                        | 100.00          |                          | 1000000      |

### Important Remarks:

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