



## Material Content Data Sheet



| <b>Sales Product Name</b> |                    | IPA65R660CFD   |                    | <b>Issued</b>  |                  | 29. August 2013 |                    |           |
|---------------------------|--------------------|----------------|--------------------|----------------|------------------|-----------------|--------------------|-----------|
| <b>MA#</b>                |                    | MA001042650    |                    |                |                  |                 |                    |           |
| <b>Package</b>            |                    | PG-TO220-3-111 |                    | <b>Weight*</b> |                  | 2240.21 mg      |                    |           |
| Construction Element      | Material Group     | Substances     | CAS# if applicable | Weight [mg]    | Average Mass [%] | Sum [%]         | Average Mass [ppm] | Sum [ppm] |
| chip                      | inorganic material | silicon        | 7440-21-3          | 3.294          | 0.15             | 0.15            | 1470               | 1470      |
| leadframe                 | non noble metal    | iron           | 7439-89-6          | 0.687          | 0.03             |                 | 307                |           |
|                           | inorganic material | phosphorus     | 7723-14-0          | 0.206          | 0.01             |                 | 92                 |           |
|                           | non noble metal    | copper         | 7440-50-8          | 686.221        | 30.63            | 30.67           | 306321             | 306720    |
| wire                      | non noble metal    | aluminium      | 7429-90-5          | 0.705          | 0.03             | 0.03            | 315                | 315       |
| encapsulation             | organic material   | carbon black   | 1333-86-4          | 2.212          | 0.10             |                 | 987                |           |
|                           | plastics           | epoxy resin    | -                  | 207.943        | 9.28             |                 | 92823              |           |
|                           | inorganic material | silicondioxide | 60676-86-0         | 895.924        | 40.00            | 49.38           | 399928             | 493739    |
| leadfinish                | non noble metal    | tin            | 7440-31-5          | 7.942          | 0.35             | 0.35            | 3545               | 3545      |
| plating                   | non noble metal    | nickel         | 7440-02-0          | 0.305          | 0.01             |                 | 136                |           |
|                           | inorganic material | phosphorus     | 7723-14-0          | 0.001          | 0.00             | 0.01            | 1                  | 136       |
| solder                    | non noble metal    | antimony       | 7440-36-0          | 0.209          | 0.01             |                 | 93                 |           |
|                           | noble metal        | silver         | 7440-22-4          | 0.523          | 0.02             |                 | 234                |           |
|                           | non noble metal    | tin            | 7440-31-5          | 1.361          | 0.06             | 0.09            | 608                | 935       |
| heatspreader              | inorganic material | phosphorus     | 7723-14-0          | 0.130          | 0.01             |                 | 58                 |           |
|                           | non noble metal    | iron           | 7439-89-6          | 0.433          | 0.02             |                 | 193                |           |
|                           | non noble metal    | copper         | 7440-50-8          | 432.110        | 19.29            | 19.32           | 192889             | 193140    |
| *deviation                | < 10%              |                |                    |                |                  | Sum in total:   | 100.00             | 1000000   |

### Important Remarks:

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