



## Material Content Data Sheet



| <b>Sales Product Name</b> |                    | IPD65R660CFDA  |                    | <b>Issued</b>  |                  | 29. August 2013 |                    |           |         |
|---------------------------|--------------------|----------------|--------------------|----------------|------------------|-----------------|--------------------|-----------|---------|
| <b>MA#</b>                |                    | MA001016866    |                    |                |                  |                 |                    |           |         |
| <b>Package</b>            |                    | PG-TO252-3-313 |                    | <b>Weight*</b> |                  | 318.88 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          | 1.03             | 1.03            | 10330              | 10330     |         |
| leadframe                 | non noble metal    | iron           | 7439-89-6          | 0.147          | 0.05             |                 | 462                |           |         |
|                           | inorganic material | phosphorus     | 7723-14-0          | 0.044          | 0.01             |                 | 139                |           |         |
|                           | non noble metal    | copper         | 7440-50-8          | 147.096        | 46.13            | 46.19           | 461292             | 461893    |         |
| wire                      | non noble metal    | aluminium      | 7429-90-5          | 0.535          | 0.17             | 0.17            | 1676               | 1676      |         |
| encapsulation             | organic material   | carbon black   | 1333-86-4          | 1.404          | 0.44             |                 | 4404               |           |         |
|                           | plastics           | epoxy resin    | -                  | 24.575         | 7.71             |                 | 77066              |           |         |
|                           | inorganic material | silicondioxide | 60676-86-0         | 114.448        | 35.89            | 44.04           | 358908             | 440378    |         |
| leadfinish                | non noble metal    | tin            | 7440-31-5          | 3.740          | 1.17             | 1.17            | 11729              | 11729     |         |
| plating                   | inorganic material | phosphorus     | 7723-14-0          | 0.003          | 0.00             |                 | 11                 |           |         |
|                           | non noble metal    | nickel         | 7440-02-0          | 1.421          | 0.45             | 0.45            | 4455               | 4466      |         |
| solder                    | noble metal        | silver         | 7440-22-4          | 0.074          | 0.02             |                 | 233                |           |         |
|                           | non noble metal    | tin            | 7440-31-5          | 0.059          | 0.02             |                 | 186                |           |         |
|                           | non noble metal    | lead           | 7439-92-1          | 2.835          | 0.89             | 0.93            | 8891               | 9310      |         |
| heatspreader              | non noble metal    | iron           | 7439-89-6          | 0.019          | 0.01             |                 | 60                 |           |         |
|                           | inorganic material | phosphorus     | 7723-14-0          | 0.006          | 0.00             |                 | 18                 |           |         |
|                           | non noble metal    | copper         | 7440-50-8          | 19.177         | 6.01             | 6.02            | 60140              | 60218     |         |
| *deviation                | < 10%              |                |                    |                |                  | Sum in total:   | 100.00             |           | 1000000 |

### Important Remarks:

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