



## Material Content Data Sheet



| <b>Sales Product Name</b> |                    | IPD65R225C7    |                       | <b>Issued</b>  |                        | 29. August 2013 |                          |              |
|---------------------------|--------------------|----------------|-----------------------|----------------|------------------------|-----------------|--------------------------|--------------|
| <b>MA#</b>                |                    | MA001043904    |                       |                |                        |                 |                          |              |
| <b>Package</b>            |                    | PG-TO252-3-313 |                       | <b>Weight*</b> |                        | 319.27 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             | 3.621          | 1.13                   | 1.13            | 11340                    | 11340        |
| leadframe                 | non noble metal    | iron           | 7439-89-6             | 0.147          | 0.05                   |                 | 461                      |              |
|                           | inorganic material | phosphorus     | 7723-14-0             | 0.044          | 0.01                   |                 | 138                      |              |
|                           | non noble metal    | copper         | 7440-50-8             | 147.096        | 46.08                  | 46.14           | 460721                   | 461320       |
| wire                      | non noble metal    | aluminium      | 7429-90-5             | 1.892          | 0.59                   | 0.59            | 5926                     | 5926         |
| encapsulation             | organic material   | carbon black   | 1333-86-4             | 1.389          | 0.44                   |                 | 4351                     |              |
|                           | plastics           | epoxy resin    | -                     | 24.309         | 7.61                   |                 | 76139                    |              |
|                           | inorganic material | silicondioxide | 60676-86-0            | 113.211        | 35.46                  | 43.51           | 354589                   | 435079       |
| leadfinish                | non noble metal    | tin            | 7440-31-5             | 3.740          | 1.17                   | 1.17            | 11714                    | 11714        |
| plating                   | inorganic material | phosphorus     | 7723-14-0             | 0.003          | 0.00                   |                 | 11                       |              |
|                           | non noble metal    | nickel         | 7440-02-0             | 1.421          | 0.44                   | 0.44            | 4449                     | 4460         |
| solder                    | noble metal        | silver         | 7440-22-4             | 0.080          | 0.02                   |                 | 250                      |              |
|                           | non noble metal    | tin            | 7440-31-5             | 0.064          | 0.02                   |                 | 200                      |              |
|                           | non noble metal    | lead           | 7439-92-1             | 3.055          | 0.96                   | 1.00            | 9567                     | 10017        |
| heatspreader              | inorganic material | phosphorus     | 7723-14-0             | 0.006          | 0.00                   |                 | 18                       |              |
|                           | non noble metal    | iron           | 7439-89-6             | 0.019          | 0.01                   |                 | 60                       |              |
|                           | non noble metal    | copper         | 7440-50-8             | 19.177         | 6.01                   | 6.02            | 60066                    | 60144        |
| *deviation                | < 10%              |                | Sum in total:         |                |                        | 100.00          |                          | 1000000      |

### Important Remarks:

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