



## Material Content Data Sheet



| <b>Sales Product Name</b> |                    | IPI120P04P4L-03 |                    | <b>Issued</b>  |                  | 29. August 2013 |                    |           |
|---------------------------|--------------------|-----------------|--------------------|----------------|------------------|-----------------|--------------------|-----------|
| <b>MA#</b>                |                    | MA000892848     |                    |                |                  |                 |                    |           |
| <b>Package</b>            |                    | PG-TO262-3-1    |                    | <b>Weight*</b> |                  | 1574.16 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          | 5.301          | 0.34             | 0.34            | 3367               | 3367      |
| leadframe                 | non noble metal    | iron            | 7439-89-6          | 0.851          | 0.05             |                 | 540                |           |
|                           | inorganic material | phosphorus      | 7723-14-0          | 0.255          | 0.02             |                 | 162                |           |
|                           | non noble metal    | copper          | 7440-50-8          | 849.682        | 53.97            | 54.04           | 539768             | 540471    |
| wire                      | non noble metal    | aluminium       | 7429-90-5          | 9.350          | 0.59             | 0.59            | 5940               | 5940      |
| encapsulation             | organic material   | carbon black    | 1333-86-4          | 8.745          | 0.56             |                 | 5556               |           |
|                           | plastics           | epoxy resin     | -                  | 96.199         | 6.11             |                 | 61112              |           |
|                           | inorganic material | silicondioxide  | 60676-86-0         | 478.082        | 30.37            | 37.04           | 303707             | 370375    |
| leadfinish                | non noble metal    | tin             | 7440-31-5          | 15.198         | 0.97             | 0.97            | 9654               | 9654      |
| plating                   | non noble metal    | nickel          | 7440-02-0          | 0.228          | 0.01             |                 | 145                |           |
|                           | inorganic material | phosphorus      | 7723-14-0          | 0.001          | 0.00             | 0.01            | 1                  | 145       |
| solder                    | noble metal        | silver          | 7440-22-4          | 0.098          | 0.01             |                 | 62                 |           |
|                           | non noble metal    | tin             | 7440-31-5          | 0.078          | 0.00             |                 | 50                 |           |
|                           | non noble metal    | lead            | 7439-92-1          | 3.741          | 0.24             | 0.25            | 2377               | 2489      |
| heatspreader              | inorganic material | phosphorus      | 7723-14-0          | 0.032          | 0.00             |                 | 20                 |           |
|                           | non noble metal    | iron            | 7439-89-6          | 0.106          | 0.01             |                 | 68                 |           |
|                           | non noble metal    | copper          | 7440-50-8          | 106.210        | 6.75             | 6.76            | 67471              | 67559     |
| *deviation                | < 10%              |                 | Sum in total:      |                |                  | 100.00          |                    | 1000000   |

### Important Remarks:

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