



## Material Content Data Sheet



|                      |                    |                |                       |                |                        |                 |                          |              |
|----------------------|--------------------|----------------|-----------------------|----------------|------------------------|-----------------|--------------------------|--------------|
| Sales Product Name   | IPI120P04P4L-03    |                |                       | Issued         |                        | 29. August 2013 |                          |              |
| MA#                  | MA000892848        |                |                       |                |                        |                 |                          |              |
| Package              | PG-TO262-3-1       |                |                       | Weight*        |                        | 1574.16 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             | 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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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

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