



## Material Content Data Sheet



|                      |                    |                |                       |                |                        |                 |                          |              |
|----------------------|--------------------|----------------|-----------------------|----------------|------------------------|-----------------|--------------------------|--------------|
| Sales Product Name   | IPP80N04S3-04      |                |                       | Issued         |                        | 29. August 2013 |                          |              |
| MA#                  | MA000366352        |                |                       |                |                        |                 |                          |              |
| Package              | PG-TO220-3-1       |                |                       | Weight*        |                        | 2036.12 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             | 4.719          | 0.23                   | 0.23            | 2318                     | 2318         |
| leadframe            | non noble metal    | iron           | 7439-89-6             | 0.816          | 0.04                   |                 | 401                      |              |
|                      | inorganic material | phosphorus     | 7723-14-0             | 0.245          | 0.01                   |                 | 120                      |              |
|                      | non noble metal    | copper         | 7440-50-8             | 815.335        | 40.06                  | 40.11           | 400433                   | 400955       |
| wire                 | non noble metal    | aluminium      | 7429-90-5             | 6.145          | 0.30                   | 0.30            | 3018                     | 3018         |
| encapsulation        | organic material   | carbon black   | 1333-86-4             | 8.898          | 0.44                   |                 | 4370                     |              |
|                      | plastics           | epoxy resin    | -                     | 97.877         | 4.81                   |                 | 48070                    |              |
|                      | inorganic material | silicondioxide | 60676-86-0            | 486.420        | 23.89                  | 29.14           | 238896                   | 291336       |
| leadfinish           | non noble metal    | tin            | 7440-31-5             | 21.462         | 1.05                   | 1.05            | 10541                    | 10541        |
| plating              | non noble metal    | nickel         | 7440-02-0             | 0.244          | 0.01                   |                 | 120                      |              |
|                      | inorganic material | phosphorus     | 7723-14-0             | 0.001          | 0.00                   | 0.01            | 1                        | 120          |
| solder               | noble metal        | silver         | 7440-22-4             | 0.093          | 0.00                   |                 | 46                       |              |
|                      | non noble metal    | tin            | 7440-31-5             | 0.074          | 0.00                   |                 | 37                       |              |
|                      | non noble metal    | lead           | 7439-92-1             | 3.557          | 0.17                   | 0.17            | 1747                     | 1830         |
| heatspreader         | inorganic material | phosphorus     | 7723-14-0             | 0.177          | 0.01                   |                 | 87                       |              |
|                      | non noble metal    | iron           | 7439-89-6             | 0.590          | 0.03                   |                 | 290                      |              |
|                      | non noble metal    | copper         | 7440-50-8             | 589.466        | 28.95                  | 28.99           | 289505                   | 289882       |
| *deviation           | < 10%              | Sum in total:  |                       |                | 100,00                 |                 | 1000000                  |              |

### Important Remarks:

1. Infineon Technologies AG provides full material declaration based on information provided by third parties and has taken and continues to take reasonable steps to provide representative and accurate information.
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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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