



## Material Content Data Sheet



| <b>Sales Product Name</b> |                    | IDH12G65C5     |                       | <b>Issued</b>  |                        | 29. August 2013 |                          |              |
|---------------------------|--------------------|----------------|-----------------------|----------------|------------------------|-----------------|--------------------------|--------------|
| <b>MA#</b>                |                    | MA000989358    |                       |                |                        |                 |                          |              |
| <b>Package</b>            |                    | PG-TO220-2-1   |                       | <b>Weight*</b> |                        | 1966.28 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 | siliconcarbide | 409-21-2              | 0.859          | 0.04                   |                 | 437                      |              |
|                           | noble metal        | gold           | 7440-57-5             | 0.065          | 0.00                   |                 | 33                       |              |
|                           | non noble metal    | tin            | 7440-31-5             | 0.017          | 0.00                   | 0.04            | 9                        | 479          |
| leadframe                 | non noble metal    | iron           | 7439-89-6             | 0.753          | 0.04                   |                 | 383                      |              |
|                           | inorganic material | phosphorus     | 7723-14-0             | 0.226          | 0.01                   |                 | 115                      |              |
| wire                      | non noble metal    | copper         | 7440-50-8             | 751.797        | 38.25                  | 38.30           | 382343                   | 382842       |
|                           | non noble metal    | aluminium      | 7429-90-5             | 0.877          | 0.04                   | 0.04            | 446                      | 446          |
| encapsulation             | organic material   | carbon black   | 1333-86-4             | 9.102          | 0.46                   |                 | 4629                     |              |
|                           | plastics           | epoxy resin    | -                     | 100.117        | 5.09                   |                 | 50917                    |              |
|                           | inorganic material | silicondioxide | 60676-86-0            | 497.553        | 25.30                  | 30.85           | 253042                   | 308588       |
| leadfinish                | non noble metal    | tin            | 7440-31-5             | 14.487         | 0.74                   | 0.74            | 7368                     | 7368         |
| plating                   | non noble metal    | nickel         | 7440-02-0             | 0.198          | 0.01                   |                 | 101                      |              |
|                           | inorganic material | phosphorus     | 7723-14-0             | 0.000          | 0.00                   | 0.01            | 1                        | 101          |
| heatspreader              | inorganic material | phosphorus     | 7723-14-0             | 0.177          | 0.01                   |                 | 90                       |              |
|                           | non noble metal    | iron           | 7439-89-6             | 0.590          | 0.03                   |                 | 300                      |              |
|                           | non noble metal    | copper         | 7440-50-8             | 589.466        | 29.98                  | 30.02           | 299786                   | 300176       |
| *deviation                | < 10%              |                | Sum in total:         |                |                        | 100,00          |                          | 1000000      |

### Important Remarks:

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