



## Material Content Data Sheet



|                      |                         |                |                       |                |                        |                 |                          |              |
|----------------------|-------------------------|----------------|-----------------------|----------------|------------------------|-----------------|--------------------------|--------------|
| Sales Product Name   | SAK-XC2788X-136F128L AA |                |                       | Issued         |                        | 29. August 2013 |                          |              |
| MA#                  | MA001025834             |                |                       |                |                        |                 |                          |              |
| Package              | PG-LQFP-144-16          |                |                       | Weight*        |                        | 1463.27 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             | 56.102         | 3.83                   | 3.83            | 38340                    | 38340        |
| leadframe            | inorganic material      | phosphorus     | 7723-14-0             | 0.122          | 0.01                   |                 | 84                       |              |
|                      | non noble metal         | zinc           | 7440-66-6             | 0.489          | 0.03                   |                 | 334                      |              |
|                      | non noble metal         | iron           | 7439-89-6             | 9.785          | 0.67                   |                 | 6687                     |              |
|                      | non noble metal         | copper         | 7440-50-8             | 397.309        | 27.15                  | 27.86           | 271522                   | 278627       |
| wire                 | noble metal             | gold           | 7440-57-5             | 4.458          | 0.30                   | 0.30            | 3047                     | 3047         |
| encapsulation        | organic material        | carbon black   | 1333-86-4             | 4.851          | 0.33                   |                 | 3315                     |              |
|                      | plastics                | epoxy resin    | -                     | 130.985        | 8.95                   |                 | 89515                    |              |
|                      | inorganic material      | silicondioxide | 60676-86-0            | 834.420        | 57.05                  | 66.33           | 570245                   | 663075       |
| leadfinish           | non noble metal         | tin            | 7440-31-5             | 9.120          | 0.62                   | 0.62            | 6233                     | 6233         |
| plating              | noble metal             | silver         | 7440-22-4             | 3.110          | 0.21                   | 0.21            | 2126                     | 2126         |
| glue                 | plastics                | epoxy resin    | -                     | 3.128          | 0.21                   |                 | 2138                     |              |
|                      | noble metal             | silver         | 7440-22-4             | 9.385          | 0.64                   | 0.85            | 6414                     | 8552         |
| *deviation           | < 10%                   | Sum in total:  |                       |                | 100,00                 |                 | 1000000                  |              |

### Important Remarks:

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