



Material Content Data Sheet



| Sales Product Name | | | | SAK-TC1767-256F133HR AD | | Issued | | 29. August 2013 | |
|---------------------------|--------------------|------------------|--------------------|-------------------------|------------------|----------------|--------------------|-----------------|--|
| MA# | | | | MA001121220 | | | | | |
| Package | | | | PG-LQFP-176-9 | | Weight* | | 1992.98 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 | 38.556 | 1.93 | 1.93 | 19346 | 19346 | |
| leadframe | inorganic material | phosphorus | 7723-14-0 | 0.148 | 0.01 | | 74 | | |
| | non noble metal | zinc | 7440-66-6 | 0.592 | 0.03 | | 297 | | |
| | non noble metal | iron | 7439-89-6 | 11.849 | 0.59 | | 5945 | | |
| wire | non noble metal | copper | 7440-50-8 | 481.113 | 24.14 | 24.77 | 241404 | 247720 | |
| | non noble metal | copper | 7440-50-8 | 3.635 | 0.18 | 0.18 | 1824 | 1824 | |
| | encapsulation | organic material | carbon black | 1333-86-4 | 7.225 | 0.36 | | 3625 | |
| leadfinish | plastics | epoxy resin | - | 195.082 | 9.79 | | 97885 | | |
| | inorganic material | silicondioxide | 60676-86-0 | 1242.742 | 62.37 | 72.52 | 623561 | 725071 | |
| | noble metal | silver | 7440-22-4 | 0.019 | 0.00 | | 10 | | |
| plating | noble metal | gold | 7440-57-5 | 0.036 | 0.00 | | 18 | | |
| | non noble metal | nickel | 7440-02-0 | 0.650 | 0.03 | | 326 | | |
| | noble metal | palladium | 7440-05-3 | 0.022 | 0.00 | 0.03 | 11 | 365 | |
| | noble metal | gold | 7440-57-5 | 0.254 | 0.01 | | 127 | | |
| | noble metal | silver | 7440-22-4 | 0.138 | 0.01 | | 69 | | |
| glue | noble metal | palladium | 7440-05-3 | 0.158 | 0.01 | | 79 | | |
| | non noble metal | nickel | 7440-02-0 | 4.635 | 0.23 | 0.26 | 2326 | 2601 | |
| | plastics | epoxy resin | - | 1.532 | 0.08 | | 768 | | |
| *deviation | < 10% | | | 4.595 | 0.23 | 0.31 | 2305 | 3073 | |
| Sum in total: | | | | | | 100,00 | | 1000000 | |

Important Remarks:

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