

# Material Content Data Sheet

RoHS | Halogen-Free

| | | | |
|---|---|---|---|
| **Sales Product Name** | AIKQ120N60CT | **Issued** | 18. August 2021 |
| **MA#** | MA004668292 | | |
| **Package** | PG-TO247-3-46 | **Weight*** | 6900.53 mg |

| Construction Element | Material Group | Substances | CAS# if applicable | Weight [mg] | Average Mass [%] | Sum [%] | Average Mass [ppm] | Sum [ppm] |
|---|---|---|---|---|---|---|---|---|
| chip_1 | inorganic material | silicon | 7440-21-3 | 6.406 | 0.09 | 0.09 | 928 | 928 |
| chip_2 | inorganic material | silicon | 7440-21-3 | 11.796 | 0.17 | 0.17 | 1710 | 1710 |
| leadframe | inorganic material | phosphorus | 7723-14-0 | 1.220 | 0.02 | | 177 | |
| | non noble metal | iron | 7439-89-6 | 4.066 | 0.06 | | 589 | |
| | non noble metal | copper | 7440-50-8 | 4,060.901 | 58.85 | 58.93 | 588491 | 589257 |
| wire | non noble metal | aluminium | 7429-90-5 | 38.537 | 0.56 | 0.56 | 5585 | 5585 |
| encapsulation | organic material | carbon black | 1333-86-4 | 20.410 | 0.30 | | 2958 | |
| | plastics | epoxy resin | - | 387.788 | 5.62 | | 56197 | |
| | inorganic material | silicondioxide | 60676-86-0 | 1,632.792 | 23.66 | 29.58 | 236618 | 295773 |
| leadfinish | non noble metal | tin | 7440-31-5 | 33.555 | 0.49 | 0.49 | 4863 | 4863 |
| plating | non noble metal | nickel | 7440-02-0 | 2.052 | 0.03 | 0.03 | 297 | 297 |
| solder | non noble metal | antimony | 7440-36-0 | 1.217 | 0.02 | | 176 | |
| | noble metal | silver | 7440-22-4 | 3.043 | 0.04 | | 441 | |
| | non noble metal | tin | 7440-31-5 | 7.911 | 0.11 | 0.17 | 1146 | 1763 |
| heatspreader | inorganic material | phosphorus | 7723-14-0 | 0.207 | | | 30 | |
| | non noble metal | iron | 7439-89-6 | 0.689 | 0.01 | | 100 | |
| | non noble metal | copper | 7440-50-8 | 687.941 | 9.97 | 9.98 | 99694 | 99824 |
| *deviation | < 10% | | | | Sum in total: | 100.00 | | 1000000 |

**Important Remarks:**

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This product is in compliance with EU Directive 2015/863/EU amending Annex II to EU Directive 2011/65/EU (RoHS) and does not use any exemption.



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| Company | Infineon Technologies AG |
| Address | 81726 Neubiberg |
| Internet | www.infineon.com |