

# Material Content Data Sheet

RoHS | Halogen-Free

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|---|---|---|---|
| **Sales Product Name** | SAK-TC365DP-64F300W AA | **Issued** | 27. April 2022 |
| **MA#** | MA005735504 | | |
| **Package** | PG-LQFP-176-22 | **Weight*** | 1961.61 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 | 35.944 | 1.83 | 1.83 | 18324 | 18324 |
| leadframe | inorganic material | phosphorus | 7723-14-0 | 0.136 | 0.01 | | 69 | |
| | non noble metal | zinc | 7440-66-6 | 0.543 | 0.03 | | 277 | |
| | non noble metal | iron | 7439-89-6 | 10.869 | 0.55 | | 5541 | |
| | non noble metal | copper | 7440-50-8 | 441.312 | 22.50 | 23.09 | 224974 | 230861 |
| wires | noble metal | palladium | 7440-05-3 | 0.130 | 0.01 | | 66 | |
| | non noble metal | copper | 7440-50-8 | 5.068 | 0.26 | 0.27 | 2584 | 2650 |
| encapsulation | organic material | carbon black | 1333-86-4 | 4.344 | 0.22 | | 2214 | |
| | plastics | epoxy resin | - | 183.881 | 9.37 | | 93740 | |
| | inorganic material | silicondioxide | 60676-86-0 | 1,259.659 | 64.21 | 73.80 | 642157 | 738111 |
| leadfinish | noble metal | palladium | 7440-05-3 | 0.004 | | | 2 | |
| | noble metal | silver | 7440-22-4 | 0.004 | | | 2 | |
| | noble metal | gold | 7440-57-5 | 0.007 | | | 4 | |
| | non noble metal | nickel | 7440-02-0 | 7.048 | 0.36 | 0.36 | 3593 | 3601 |
| plating | noble metal | silver | 7440-22-4 | 0.129 | 0.01 | | 66 | |
| | noble metal | palladium | 7440-05-3 | 0.147 | 0.01 | | 75 | |
| | noble metal | gold | 7440-57-5 | 0.236 | 0.01 | | 120 | |
| | non noble metal | nickel | 7440-02-0 | 4.310 | 0.22 | 0.25 | 2197 | 2458 |
| glue | plastics | epoxy resin | - | 1.724 | 0.09 | | 879 | |
| | noble metal | silver | 7440-22-4 | 6.112 | 0.31 | 0.40 | 3116 | 3995 |
| *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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