



## Material Content Data Sheet



Halogen-Free

|                           |                      |                |               |
|---------------------------|----------------------|----------------|---------------|
| <b>Sales Product Name</b> | SAK-TC213L-8F133N AC | <b>Issued</b>  | 25. June 2021 |
| <b>MA#</b>                | MA005565561          |                |               |
| <b>Package</b>            | PG-TQFP-100-23       | <b>Weight*</b> | 697.29 mg     |

| Construction Element | Material Group     | Substances     | CAS#<br>if applicable | Weight [mg] | Average<br>Mass [%] | Sum [%] | Average<br>Mass<br>[ppm] | Sum [ppm] |
|----------------------|--------------------|----------------|-----------------------|-------------|---------------------|---------|--------------------------|-----------|
| chip                 | inorganic material | silicon        | 7440-21-3             | 17.136      | 2.46                | 2.46    | 24575                    | 24575     |
| leadframe            | inorganic material | phosphorus     | 7723-14-0             | 0.056       | 0.01                |         | 80                       |           |
|                      | non noble metal    | zinc           | 7440-66-6             | 0.223       | 0.03                |         | 320                      |           |
|                      | non noble metal    | iron           | 7439-89-6             | 4.458       | 0.64                |         | 6394                     |           |
|                      | non noble metal    | copper         | 7440-50-8             | 181.029     | 25.96               | 26.64   | 259619                   | 266413    |
| wires                | noble metal        | gold           | 7440-57-5             | 0.001       |                     |         | 2                        |           |
|                      | noble metal        | palladium      | 7440-05-3             | 0.032       |                     |         | 46                       |           |
|                      | non noble metal    | copper         | 7440-50-8             | 1.423       | 0.20                | 0.20    | 2041                     | 2089      |
| encapsulation        | organic material   | carbon black   | 1333-86-4             | 1.425       | 0.20                |         | 2044                     |           |
|                      | plastics           | epoxy resin    | -                     | 60.326      | 8.65                |         | 86515                    |           |
|                      | inorganic material | silicondioxide | 60676-86-0            | 413.257     | 59.29               | 68.14   | 592664                   | 681223    |
| leadfinish           | noble metal        | palladium      | 7440-05-3             | 0.003       |                     |         | 4                        |           |
|                      | noble metal        | silver         | 7440-22-4             | 0.003       |                     |         | 4                        |           |
|                      | noble metal        | gold           | 7440-57-5             | 0.005       |                     |         | 7                        |           |
|                      | non noble metal    | nickel         | 7440-02-0             | 4.642       | 0.67                | 0.67    | 6658                     | 6673      |
| plating              | noble metal        | silver         | 7440-22-4             | 0.005       |                     |         | 7                        |           |
|                      | noble metal        | palladium      | 7440-05-3             | 0.005       |                     |         | 8                        |           |
|                      | noble metal        | gold           | 7440-57-5             | 0.009       |                     |         | 12                       |           |
|                      | non noble metal    | nickel         | 7440-02-0             | 8.662       | 1.24                | 1.24    | 12423                    | 12450     |
| glue                 | plastics           | epoxy resin    | -                     | 1.009       | 0.14                |         | 1447                     |           |
|                      | noble metal        | silver         | 7440-22-4             | 3.577       | 0.51                | 0.65    | 5130                     | 6577      |
| *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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