

# Material Content Data Sheet

RoHS | Halogen-Free

| | | | |
|---|---|---|---|
| **Sales Product Name** | SAK-TC389QP-160F300S AD | **Issued** | 31. January 2019 |
| **MA#** | MA003512274 | | |
| **Package** | PG-FBGA-516-1 | **Weight*** | 2092.37 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 | 26.579 | 1.27 | 1.27 | 12703 | 12703 |
| wire | noble metal | palladium | 7440-05-3 | 0.026 | 0.00 | | 13 | |
| | non noble metal | copper | 7440-50-8 | 2.609 | 0.12 | 0.12 | 1247 | 1260 |
| encapsulation | organic material | carbon black | 1333-86-4 | 1.573 | 0.08 | | 752 | |
| | plastics | epoxy resin | - | 108.544 | 5.19 | | 51876 | |
| | inorganic material | silicondioxide | 60676-86-0 | 676.432 | 32.33 | 37.60 | 323285 | 375913 |
| substrate | inorganic material | bariumsulfate | 7727-43-7 | 22.732 | 1.09 | | 10864 | |
| | plastics | acrylic resin | - | 26.308 | 1.26 | | 12573 | |
| | non noble metal | metal hydroxide | - | 31.008 | 1.48 | | 14819 | |
| | inorganic material | amorphous silica | 7631-86-9 | 62.016 | 2.96 | | 29639 | |
| | plastics | epoxy resin | - | 107.838 | 5.15 | | 51539 | |
| | inorganic material | glass fibre wool | 65997-17-3 | 124.031 | 5.93 | | 59278 | |
| | non noble metal | copper | 7440-50-8 | 696.056 | 33.26 | 51.13 | 332664 | 511376 |
| plating | noble metal | gold | 7440-57-5 | 1.985 | 0.09 | | 949 | |
| | non noble metal | nickel | 7440-02-0 | 5.432 | 0.26 | 0.35 | 2596 | 3545 |
| solderball | noble metal | silver | 7440-22-4 | 6.821 | 0.33 | | 3260 | |
| | non noble metal | tin | 7440-31-5 | 188.053 | 8.99 | 9.32 | 89875 | 93135 |
| glue | plastics | epoxy resin | - | 1.082 | 0.05 | | 517 | |
| | noble metal | silver | 7440-22-4 | 3.246 | 0.16 | 0.21 | 1551 | 2068 |
| *deviation | < 10% | | | | Sum in total: | 100.00 | | 1000000 |

**Important Remarks:**

1. Infineon Technologies AG provides full material declaration based on information provided by third parties and has taken and continues to take reasonable steps to provide representative and accurate information.
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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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