

# Material Content Data Sheet

RoHS | Halogen-Free

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|---|---|---|---|
| **Sales Product Name** | IPC100N04S5-1R2 | **Issued** | 22. April 2022 |
| **MA#** | MA005712638 | | |
| **Package** | PG-TDSON-8-34 | **Weight*** | 113.59 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 | 2.175 | 1.91 | 1.91 | 19145 | 19145 |
| leadframe | inorganic material | phosphorus | 7723-14-0 | 0.016 | 0.01 | | 140 | |
| | non noble metal | iron | 7439-89-6 | 0.053 | 0.05 | | 466 | |
| | non noble metal | copper | 7440-50-8 | 52.842 | 46.54 | 46.60 | 465181 | 465787 |
| wire | noble metal | gold | 7440-57-5 | 0.042 | 0.04 | 0.04 | 370 | 370 |
| encapsulation | organic material | carbon black | 1333-86-4 | 0.073 | 0.06 | | 644 | |
| | plastics | epoxy resin | - | 5.778 | 5.09 | | 50868 | |
| | inorganic material | silicondioxide | 60676-86-0 | 30.720 | 27.04 | 32.19 | 270436 | 321948 |
| leadfinish | non noble metal | tin | 7440-31-5 | 1.574 | 1.39 | 1.39 | 13855 | 13855 |
| plating | noble metal | silver | 7440-22-4 | 0.209 | 0.18 | 0.18 | 1842 | 1842 |
| solder | non noble metal | tin | 7440-31-5 | 0.046 | 0.04 | | 407 | |
| | noble metal | silver | 7440-22-4 | 0.058 | 0.05 | | 509 | |
| | non noble metal | lead | 7439-92-1 | 2.210 | 1.95 | 2.04 | 19453 | 20369 |
| heat sink clip | inorganic material | phosphorus | 7723-14-0 | 0.005 | | | 44 | |
| | non noble metal | iron | 7439-89-6 | 0.017 | 0.01 | | 148 | |
| | non noble metal | copper | 7440-50-8 | 16.828 | 14.81 | 14.82 | 148138 | 148330 |
| clip plating | noble metal | silver | 7440-22-4 | 0.639 | 0.56 | 0.56 | 5625 | 5625 |
| heatspreader | inorganic material | phosphorus | 7723-14-0 | 0.000 | | | 1 | |
| | non noble metal | iron | 7439-89-6 | 0.000 | | | 3 | |
| | non noble metal | copper | 7440-50-8 | 0.310 | 0.27 | 0.27 | 2725 | 2729 |
| *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 contains Pb according RoHS exemption 7a, Lead in high melting temperature type solders.



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