

# Material Content Data Sheet

RoHS | Halogen-Free

| | | | |
|---|---|---|---|
| **Sales Product Name** | IPP65R045C7 | **Issued** | 08. April 2022 |
| **MA#** | MA005709911 | | |
| **Package** | PG-TO220-3-1 | **Weight*** | 2039.11 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 | 15.501 | 0.76 | 0.76 | 7602 | 7602 |
| leadframe | inorganic material | phosphorus | 7723-14-0 | 0.245 | 0.01 | | 120 | |
| | non noble metal | iron | 7439-89-6 | 0.816 | 0.04 | | 400 | |
| | non noble metal | copper | 7440-50-8 | 815.335 | 39.99 | 40.04 | 399848 | 400368 |
| wire | non noble metal | aluminium | 7429-90-5 | 10.614 | 0.52 | 0.52 | 5205 | 5205 |
| encapsulation | organic material | carbon black | 1333-86-4 | 5.782 | 0.28 | | 2835 | |
| | plastics | epoxy resin | - | 109.854 | 5.39 | | 53874 | |
| | inorganic material | silicondioxide | 60676-86-0 | 462.543 | 22.68 | 28.35 | 226836 | 283545 |
| leadfinish | non noble metal | tin | 7440-31-5 | 21.462 | 1.05 | 1.05 | 10525 | 10525 |
| plating | inorganic material | phosphorus | 7723-14-0 | 0.001 | | | 1 | |
| | non noble metal | nickel | 7440-02-0 | 0.244 | 0.01 | 0.01 | 120 | 121 |
| solder | non noble metal | antimony | 7440-36-0 | 0.648 | 0.03 | | 318 | |
| | noble metal | silver | 7440-22-4 | 1.619 | 0.08 | | 794 | |
| | non noble metal | tin | 7440-31-5 | 4.210 | 0.21 | 0.32 | 2065 | 3177 |
| heatspreader | inorganic material | phosphorus | 7723-14-0 | 0.177 | 0.01 | | 87 | |
| | non noble metal | iron | 7439-89-6 | 0.590 | 0.03 | | 289 | |
| | non noble metal | copper | 7440-50-8 | 589.466 | 28.91 | 28.95 | 289081 | 289457 |
| *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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