

# Material Content Data Sheet

RoHS | Halogen-Free

| | | | |
|---|---|---|---|
| **Sales Product Name** | SPP24N60C3 | **Issued** | 06. April 2021 |
| **MA#** | MA001671424 | | |
| **Package** | PG-TO220-3-123 | **Weight*** | 2031.47 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 | 14.004 | 0.69 | 0.69 | 6894 | 6894 |
| leadframe | inorganic material | phosphorus | 7723-14-0 | 0.245 | 0.01 | | 121 | |
| | non noble metal | iron | 7439-89-6 | 0.816 | 0.04 | | 402 | |
| | non noble metal | copper | 7440-50-8 | 815.335 | 40.14 | 40.19 | 401352 | 401875 |
| wire | non noble metal | aluminium | 7429-90-5 | 3.294 | 0.16 | 0.16 | 1622 | 1622 |
| encapsulation | organic material | carbon black | 1333-86-4 | 2.313 | 0.11 | | 1139 | |
| | plastics | epoxy resin | - | 67.085 | 3.30 | | 33023 | |
| | inorganic material | silicondioxide | 60676-86-0 | 508.920 | 25.05 | 28.46 | 250517 | 284679 |
| leadfinish | non noble metal | tin | 7440-31-5 | 21.462 | 1.06 | 1.06 | 10565 | 10565 |
| plating | non noble metal | nickel | 7440-02-0 | 1.764 | 0.09 | 0.09 | 868 | 868 |
| solder | non noble metal | antimony | 7440-36-0 | 0.600 | 0.03 | | 295 | |
| | noble metal | silver | 7440-22-4 | 1.500 | 0.07 | | 738 | |
| | non noble metal | tin | 7440-31-5 | 3.900 | 0.19 | 0.29 | 1920 | 2953 |
| heatspreader | inorganic material | phosphorus | 7723-14-0 | 0.177 | 0.01 | | 87 | |
| | non noble metal | iron | 7439-89-6 | 0.590 | 0.03 | | 291 | |
| | non noble metal | copper | 7440-50-8 | 589.466 | 29.02 | 29.06 | 290166 | 290544 |
| *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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