

# Material Content Data Sheet

RoHS | Halogen-Free

| | | | |
|---|---|---|---|
| **Sales Product Name** | IPP60R280P6 | **Issued** | 02. June 2021 |
| **MA#** | MA001134032 | | |
| **Package** | PG-TO220-3-123 | **Weight*** | 2027.76 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 | 5.826 | 0.29 | 0.29 | 2873 | 2873 |
| leadframe | inorganic material | phosphorus | 7723-14-0 | 0.245 | 0.01 | | 121 | |
| | non noble metal | iron | 7439-89-6 | 0.816 | 0.04 | | 403 | |
| | non noble metal | copper | 7440-50-8 | 815.335 | 40.19 | 40.24 | 402087 | 402611 |
| wire | non noble metal | aluminium | 7429-90-5 | 3.212 | 0.16 | 0.16 | 1584 | 1584 |
| encapsulation | organic material | carbon black | 1333-86-4 | 2.343 | 0.12 | | 1155 | |
| | plastics | epoxy resin | - | 67.947 | 3.35 | | 33508 | |
| | inorganic material | silicondioxide | 60676-86-0 | 515.456 | 25.42 | 28.89 | 254200 | 288863 |
| leadfinish | non noble metal | tin | 7440-31-5 | 21.462 | 1.06 | 1.06 | 10584 | 10584 |
| plating | non noble metal | nickel | 7440-02-0 | 1.764 | 0.09 | 0.09 | 870 | 870 |
| solder | non noble metal | antimony | 7440-36-0 | 0.312 | 0.02 | | 154 | |
| | noble metal | silver | 7440-22-4 | 0.780 | 0.04 | | 385 | |
| | non noble metal | tin | 7440-31-5 | 2.028 | 0.10 | 0.16 | 1000 | 1539 |
| 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 | 29.07 | 29.11 | 290698 | 291076 |
| *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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| Company | Infineon Technologies AG |
| Address | 81726 Neubiberg |
| Internet | www.infineon.com |