

# Material Content Data Sheet

RoHS | Halogen-Free

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|---|---|---|---|
| **Sales Product Name** | IPP075N15N3 G | **Issued** | 03. June 2021 |
| **MA#** | MA005404518 | | |
| **Package** | PG-TO220-3-123 | **Weight*** | 2044.23 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 | 17.562 | 0.86 | 0.86 | 8591 | 8591 |
| leadframe | inorganic material | phosphorus | 7723-14-0 | 0.245 | 0.01 | | 120 | |
| | non noble metal | iron | 7439-89-6 | 0.816 | 0.04 | | 399 | |
| | non noble metal | copper | 7440-50-8 | 815.335 | 39.85 | 39.90 | 398846 | 399365 |
| wire | non noble metal | aluminium | 7429-90-5 | 10.733 | 0.53 | 0.53 | 5251 | 5251 |
| encapsulation | organic material | carbon black | 1333-86-4 | 2.894 | 0.14 | | 1416 | |
| | miscellaneous | miscellaneous | - | 2.894 | 0.14 | | 1416 | |
| | organic material | phenol formaldehyde resin | 9003-35-4 | 34.733 | 1.70 | | 16991 | |
| | inorganic material | silicondioxide | 14808-60-7 | 46.311 | 2.27 | | 22654 | |
| | non noble metal | metal hydroxide | - | 46.311 | 2.27 | | 22654 | |
| | plastics | epoxy resin | 29690-82-2 | 69.466 | 3.40 | | 33982 | |
| | inorganic material | silicondioxide | 60676-86-0 | 376.277 | 18.41 | 28.33 | 184067 | 283180 |
| leadfinish | non noble metal | tin | 7440-31-5 | 21.462 | 1.05 | 1.05 | 10499 | 10499 |
| plating | non noble metal | nickel | 7440-02-0 | 1.764 | 0.09 | 0.09 | 863 | 863 |
| solder | non noble metal | antimony | 7440-36-0 | 0.719 | 0.04 | | 352 | |
| | noble metal | silver | 7440-22-4 | 1.799 | 0.09 | | 880 | |
| | non noble metal | tin | 7440-31-5 | 4.676 | 0.23 | 0.36 | 2288 | 3520 |
| 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 | 28.84 | 28.88 | 288355 | 288731 |
| *deviation | < 10% | | | | Sum in total: | 100.00 | | 1000000 |

**Important Remarks:**

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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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