

# Material Content Data Sheet

RoHS | Halogen-Free

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|---|---|---|---|
| **Sales Product Name** | IPP045N10N3 G | **Issued** | 16. May 2021 |
| **MA#** | MA005403592 | | |
| **Package** | PG-TO220-3-123 | **Weight*** | 2040.46 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 | 8.861 | 0.43 | 0.43 | 4343 | 4343 |
| 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 | 39.97 | 40.02 | 399583 | 400103 |
| wire | non noble metal | aluminium | 7429-90-5 | 10.404 | 0.51 | 0.51 | 5099 | 5099 |
| encapsulation | organic material | carbon black | 1333-86-4 | 2.935 | 0.14 | | 1439 | |
| | miscellaneous | miscellaneous | - | 2.935 | 0.14 | | 1439 | |
| | organic material | phenol formaldehyde resin | 9003-35-4 | 35.223 | 1.73 | | 17262 | |
| | inorganic material | silicondioxide | 14808-60-7 | 46.964 | 2.30 | | 23016 | |
| | non noble metal | metal hydroxide | - | 46.964 | 2.30 | | 23016 | |
| | plastics | epoxy resin | 29690-82-2 | 70.446 | 3.45 | | 34524 | |
| | inorganic material | silicondioxide | 60676-86-0 | 381.581 | 18.70 | 28.76 | 187008 | 287704 |
| leadfinish | non noble metal | tin | 7440-31-5 | 21.462 | 1.05 | 1.05 | 10518 | 10518 |
| plating | non noble metal | nickel | 7440-02-0 | 1.764 | 0.09 | 0.09 | 864 | 864 |
| solder | non noble metal | antimony | 7440-36-0 | 0.429 | 0.02 | | 210 | |
| | noble metal | silver | 7440-22-4 | 1.074 | 0.05 | | 526 | |
| | non noble metal | tin | 7440-31-5 | 2.791 | 0.14 | 0.21 | 1368 | 2104 |
| 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 | 28.89 | 28.93 | 288889 | 289265 |
| *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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