# Material Content Data Sheet

RoHS | Halogen-Free

| | | | |
|---|---|---|---|
| **Sales Product Name** | IPP80N03S4L-04 | **Issued** | 29. August 2013 |
| **MA#** | MA000859344 | | |
| **Package** | PG-TO220-3-1 | **Weight*** | 2034.28 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 | 2.247 | 0.11 | 0.11 | 1105 | 1105 |
| leadframe | non noble metal | iron | 7439-89-6 | 0.816 | 0.04 | | 401 | |
| | inorganic material | phosphorus | 7723-14-0 | 0.245 | 0.01 | | 120 | |
| | non noble metal | copper | 7440-50-8 | 815.335 | 40.07 | 40.12 | 400796 | 401318 |
| wire | non noble metal | aluminium | 7429-90-5 | 5.250 | 0.26 | 0.26 | 2581 | 2581 |
| encapsulation | organic material | carbon black | 1333-86-4 | 8.945 | 0.44 | | 4397 | |
| | plastics | epoxy resin | - | 98.392 | 4.84 | | 48367 | |
| | inorganic material | silicondioxide | 60676-86-0 | 488.980 | 24.04 | 29.32 | 240370 | 293134 |
| leadfinish | non noble metal | tin | 7440-31-5 | 21.462 | 1.06 | 1.06 | 10550 | 10550 |
| plating | non noble metal | nickel | 7440-02-0 | 0.244 | 0.01 | | 120 | |
| | inorganic material | phosphorus | 7723-14-0 | 0.001 | 0.00 | 0.01 | 1 | 120 |
| solder | noble metal | silver | 7440-22-4 | 0.053 | 0.00 | | 26 | |
| | non noble metal | tin | 7440-31-5 | 0.043 | 0.00 | | 21 | |
| | non noble metal | lead | 7439-92-1 | 2.035 | 0.10 | 0.10 | 1001 | 1048 |
| heatspreader | inorganic material | phosphorus | 7723-14-0 | 0.177 | 0.01 | | 87 | |
| | non noble metal | iron | 7439-89-6 | 0.590 | 0.03 | | 290 | |
| | non noble metal | copper | 7440-50-8 | 589.466 | 28.98 | 29.02 | 289767 | 290144 |
| *deviation | < 10% | | | | Sum in total: | 100,00 | | 1000000 |

**Important Remarks:**

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