# Material Content Data Sheet

RoHS | Halogen-Free

| | | | |
|---|---|---|---|
| **Sales Product Name** | IPA60R600P6 | **Issued** | 29. August 2013 |
| **MA#** | MA001038240 | | |
| **Package** | PG-TO220-3-111 | **Weight*** | 2240.13 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 | 3.063 | 0.14 | 0.14 | 1367 | 1367 |
| leadframe | non noble metal | iron | 7439-89-6 | 0.687 | 0.03 | | 307 | |
| | inorganic material | phosphorus | 7723-14-0 | 0.206 | 0.01 | | 92 | |
| | non noble metal | copper | 7440-50-8 | 686.221 | 30.63 | 30.67 | 306331 | 306730 |
| wire | non noble metal | aluminium | 7429-90-5 | 0.699 | 0.03 | 0.03 | 312 | 312 |
| encapsulation | organic material | carbon black | 1333-86-4 | 2.213 | 0.10 | | 988 | |
| | plastics | epoxy resin | - | 207.992 | 9.28 | | 92848 | |
| | inorganic material | silicondioxide | 60676-86-0 | 896.137 | 40.01 | 49.39 | 400036 | 493873 |
| leadfinish | non noble metal | tin | 7440-31-5 | 7.942 | 0.35 | 0.35 | 3545 | 3545 |
| plating | non noble metal | nickel | 7440-02-0 | 0.305 | 0.01 | | 136 | |
| | inorganic material | phosphorus | 7723-14-0 | 0.001 | 0.00 | 0.01 | 1 | 136 |
| solder | non noble metal | antimony | 7440-36-0 | 0.200 | 0.01 | | 89 | |
| | noble metal | silver | 7440-22-4 | 0.499 | 0.02 | | 223 | |
| | non noble metal | tin | 7440-31-5 | 1.297 | 0.06 | 0.09 | 579 | 891 |
| heatspreader | non noble metal | iron | 7439-89-6 | 0.433 | 0.02 | | 193 | |
| | inorganic material | phosphorus | 7723-14-0 | 0.130 | 0.01 | | 58 | |
| | non noble metal | copper | 7440-50-8 | 432.110 | 19.29 | 19.32 | 192895 | 193146 |
| *deviation | < 10% | | | | Sum in total: | 100,00 | | 1000000 |

**Important Remarks:**

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