



Material Content Data Sheet



| Sales Product Name | | IPA60R099C6 | | Issued | | 29. August 2013 | | |
|---------------------------|--------------------|----------------|-----------------------|----------------|------------------------|-----------------|--------------------------|--------------|
| MA# | | MA001139896 | | | | | | |
| Package | | PG-TO220-3-111 | | Weight* | | 2244.12 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 | 14.444 | 0.64 | 0.64 | 6436 | 6436 |
| leadframe | non noble metal | iron | 7439-89-6 | 0.687 | 0.03 | | 306 | |
| | inorganic material | phosphorus | 7723-14-0 | 0.206 | 0.01 | | 92 | |
| | non noble metal | copper | 7440-50-8 | 686.221 | 30.58 | 30.62 | 305786 | 306184 |
| wire | non noble metal | aluminium | 7429-90-5 | 2.611 | 0.12 | 0.12 | 1163 | 1163 |
| encapsulation | organic material | carbon black | 1333-86-4 | 2.203 | 0.10 | | 982 | |
| | plastics | epoxy resin | - | 205.652 | 9.16 | | 91640 | |
| | inorganic material | silicondioxide | 60676-86-0 | 885.060 | 39.43 | 48.69 | 394389 | 487012 |
| leadfinish | non noble metal | tin | 7440-31-5 | 7.942 | 0.35 | 0.35 | 3539 | 3539 |
| 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 | 0.612 | 0.03 | | 273 | |
| | noble metal | silver | 7440-22-4 | 1.530 | 0.07 | | 682 | |
| | non noble metal | tin | 7440-31-5 | 3.977 | 0.18 | 0.28 | 1772 | 2727 |
| 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 | 19.26 | 19.29 | 192552 | 192803 |
| *deviation | < 10% | | Sum in total: | | | 100.00 | | 1000000 |

Important Remarks:

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