



Material Content Data Sheet



| Sales Product Name | | SPP15P10PL H | | Issued | | 29. August 2013 | | |
|---------------------------|--------------------|----------------|--------------------|----------------|------------------|-----------------|--------------------|-----------|
| MA# | | MA000669536 | | | | | | |
| Package | | PG-TO220-3-1 | | Weight* | | 2030.81 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 | 3.612 | 0.18 | 0.18 | 1779 | 1779 |
| leadframe | non noble metal | iron | 7439-89-6 | 0.816 | 0.04 | | 402 | |
| | inorganic material | phosphorus | 7723-14-0 | 0.245 | 0.01 | | 121 | |
| | non noble metal | copper | 7440-50-8 | 815.335 | 40.14 | 40.19 | 401482 | 402006 |
| wire | non noble metal | aluminium | 7429-90-5 | 1.503 | 0.07 | 0.07 | 740 | 740 |
| encapsulation | organic material | carbon black | 1333-86-4 | 5.953 | 0.29 | | 2931 | |
| | plastics | epoxy resin | - | 113.102 | 5.57 | | 55693 | |
| | inorganic material | silicondioxide | 60676-86-0 | 476.220 | 23.45 | 29.31 | 234499 | 293123 |
| leadfinish | non noble metal | tin | 7440-31-5 | 21.462 | 1.06 | 1.06 | 10568 | 10568 |
| 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 | non noble metal | antimony | 7440-36-0 | 0.208 | 0.01 | | 102 | |
| | noble metal | silver | 7440-22-4 | 0.520 | 0.03 | | 256 | |
| | non noble metal | tin | 7440-31-5 | 1.351 | 0.07 | 0.11 | 665 | 1023 |
| heatspreader | non noble metal | iron | 7439-89-6 | 0.590 | 0.03 | | 291 | |
| | inorganic material | phosphorus | 7723-14-0 | 0.177 | 0.01 | | 87 | |
| | non noble metal | copper | 7440-50-8 | 589.466 | 29.03 | 29.07 | 290263 | 290641 |
| *deviation | < 10% | | Sum in total: | | | 100.00 | | 1000000 |

Important Remarks:

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