



Material Content Data Sheet



| Sales Product Name | | | | IPD50R800CE | | Issued | | 29. August 2013 | |
|---------------------------|--------------------|------------------|--------------------|----------------|------------------|----------------|--------------------|-----------------|--|
| MA# | | | | MA001074498 | | | | | |
| Package | | | | PG-TO252-3-311 | | Weight* | | 313.87 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 | 2.092 | 0.67 | 0.67 | 6664 | 6664 | |
| leadframe | non noble metal | iron | 7439-89-6 | 0.143 | 0.05 | | 457 | | |
| | inorganic material | phosphorus | 7723-14-0 | 0.043 | 0.01 | | 137 | | |
| | non noble metal | copper | 7440-50-8 | 143.098 | 45.59 | 45.65 | 455918 | 456512 | |
| wire | non noble metal | aluminium | 7429-90-5 | 0.512 | 0.16 | 0.16 | 1631 | 1631 | |
| encapsulation | inorganic material | antimonytrioxide | 1309-64-4 | 1.998 | 0.64 | | 6367 | | |
| | plastics | brominated resin | - | 2.141 | 0.68 | | 6822 | | |
| | organic material | carbon black | 1333-86-4 | 2.284 | 0.73 | | 7276 | | |
| | plastics | epoxy resin | - | 19.270 | 6.14 | | 61395 | | |
| | inorganic material | silicondioxide | 60676-86-0 | 117.047 | 37.29 | 45.48 | 372919 | 454779 | |
| leadfinish | non noble metal | tin | 7440-31-5 | 3.740 | 1.19 | 1.19 | 11916 | 11916 | |
| plating | non noble metal | nickel | 7440-02-0 | 0.086 | 0.03 | | 275 | | |
| | inorganic material | phosphorus | 7723-14-0 | 0.000 | 0.00 | 0.03 | 1 | 276 | |
| solder | noble metal | silver | 7440-22-4 | 0.055 | 0.02 | | 176 | | |
| | non noble metal | tin | 7440-31-5 | 0.044 | 0.01 | | 141 | | |
| | non noble metal | lead | 7439-92-1 | 2.111 | 0.67 | 0.70 | 6726 | 7043 | |
| heatspreader | inorganic material | phosphorus | 7723-14-0 | 0.006 | 0.00 | | 18 | | |
| | non noble metal | iron | 7439-89-6 | 0.019 | 0.01 | | 61 | | |
| | non noble metal | copper | 7440-50-8 | 19.177 | 6.11 | 6.12 | 61100 | 61179 | |
| *deviation | < 10% | | | Sum in total: | | 100.00 | | 1000000 | |

Important Remarks:

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