



Material Content Data Sheet



| Sales Product Name | | IPB45N06S4-09 | | Issued | | 29. August 2013 | | |
|---------------------------|--------------------|----------------|-----------------------|----------------|------------------------|-----------------|--------------------------|--------------|
| MA# | | MA000374468 | | | | | | |
| Package | | PG-TO263-3-2 | | Weight* | | 1557.56 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 | 2.120 | 0.14 | 0.14 | 1361 | 1361 |
| leadframe | non noble metal | iron | 7439-89-6 | 0.304 | 0.02 | | 195 | |
| | inorganic material | phosphorus | 7723-14-0 | 0.091 | 0.01 | | 59 | |
| | non noble metal | copper | 7440-50-8 | 304.026 | 19.52 | 19.55 | 195194 | 195448 |
| wire | non noble metal | aluminium | 7429-90-5 | 3.012 | 0.19 | 0.19 | 1934 | 1934 |
| encapsulation | organic material | carbon black | 1333-86-4 | 10.313 | 0.66 | | 6622 | |
| | plastics | epoxy resin | - | 113.448 | 7.28 | | 72837 | |
| | inorganic material | silicondioxide | 60676-86-0 | 563.804 | 36.21 | 44.15 | 361978 | 441438 |
| leadfinish | non noble metal | tin | 7440-31-5 | 9.657 | 0.62 | 0.62 | 6200 | 6200 |
| plating | non noble metal | nickel | 7440-02-0 | 0.228 | 0.01 | | 147 | |
| | inorganic material | phosphorus | 7723-14-0 | 0.001 | 0.00 | 0.01 | 1 | 147 |
| solder | noble metal | silver | 7440-22-4 | 0.054 | 0.00 | | 35 | |
| | non noble metal | tin | 7440-31-5 | 0.043 | 0.00 | | 28 | |
| | non noble metal | lead | 7439-92-1 | 2.076 | 0.13 | 0.13 | 1333 | 1396 |
| heatspreader | inorganic material | phosphorus | 7723-14-0 | 0.165 | 0.01 | | 106 | |
| | non noble metal | iron | 7439-89-6 | 0.548 | 0.04 | | 352 | |
| | non noble metal | copper | 7440-50-8 | 547.666 | 35.16 | 35.21 | 351618 | 352076 |
| *deviation | < 10% | | Sum in total: | | | 100.00 | | 1000000 |

Important Remarks:

1. Infineon Technologies AG provides full material declaration based on information provided by third parties and has taken and continues to take reasonable steps to provide representative and accurate information.
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