



Material Content Data Sheet



| Sales Product Name | | IPW90R1K2C3 | | Issued | | 29. August 2013 | | | |
|---------------------------|--------------------|----------------|--------------------|----------------|------------------|-----------------|--------------------|-----------|---------|
| MA# | | MA000468426 | | | | | | | |
| Package | | PG-TO247-3-41 | | Weight* | | 6045.98 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 | 4.798 | 0.08 | 0.08 | 794 | 794 | |
| leadframe | non noble metal | iron | 7439-89-6 | 3.972 | 0.07 | | 657 | | |
| | inorganic material | phosphorus | 7723-14-0 | 1.192 | 0.02 | | 197 | | |
| | non noble metal | copper | 7440-50-8 | 3967.074 | 65.61 | 65.70 | 656151 | 657005 | |
| wire | non noble metal | aluminium | 7429-90-5 | 2.575 | 0.04 | 0.04 | 426 | 426 | |
| encapsulation | organic material | carbon black | 1333-86-4 | 20.032 | 0.33 | | 3313 | | |
| | plastics | epoxy resin | - | 380.600 | 6.30 | | 62951 | | |
| | inorganic material | silicondioxide | 60676-86-0 | 1602.528 | 26.51 | 33.14 | 265057 | 331321 | |
| leadfinish | non noble metal | tin | 7440-31-5 | 31.874 | 0.53 | 0.53 | 5272 | 5272 | |
| plating | non noble metal | nickel | 7440-02-0 | 29.065 | 0.48 | 0.48 | 4807 | 4807 | |
| solder | non noble metal | antimony | 7440-36-0 | 0.227 | 0.00 | | 37 | | |
| | noble metal | silver | 7440-22-4 | 0.567 | 0.01 | | 94 | | |
| | non noble metal | tin | 7440-31-5 | 1.473 | 0.02 | 0.03 | 244 | 375 | |
| *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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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

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