



Material Content Data Sheet



Halogen-Free

Sales Product Name IPW60R018CFD7

Issued

14. February 2022

MA# MA005621047

Package PG-TO247-3-41

Weight*

6065.15 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 | 35.362 | 0.58 | 0.58 | 5830 | 5830 |
| leadframe | inorganic material | phosphorus | 7723-14-0 | 0.159 | | | 26 | |
| | non noble metal | iron | 7439-89-6 | 0.530 | 0.01 | | 87 | |
| | non noble metal | copper | 7440-50-8 | 529.068 | 8.72 | 8.73 | 87231 | 87344 |
| wire | non noble metal | aluminium | 7429-90-5 | 20.495 | 0.34 | 0.34 | 3379 | 3379 |
| encapsulation | organic material | carbon black | 1333-86-4 | 19.637 | 0.32 | | 3238 | |
| | plastics | epoxy resin | - | 373.097 | 6.15 | | 61515 | |
| | inorganic material | silicondioxide | 60676-86-0 | 1,570.935 | 25.90 | 32.37 | 259011 | 323764 |
| leadfinish | non noble metal | tin | 7440-31-5 | 31.874 | 0.53 | 0.53 | 5255 | 5255 |
| plating | non noble metal | nickel | 7440-02-0 | 29.065 | 0.48 | 0.48 | 4792 | 4792 |
| solder | non noble metal | antimony | 7440-36-0 | 1.244 | 0.02 | | 205 | |
| | noble metal | silver | 7440-22-4 | 3.111 | 0.05 | | 513 | |
| | non noble metal | tin | 7440-31-5 | 8.089 | 0.13 | 0.20 | 1334 | 2052 |
| heatspreader | inorganic material | phosphorus | 7723-14-0 | 1.033 | 0.02 | | 170 | |
| | non noble metal | iron | 7439-89-6 | 3.442 | 0.06 | | 568 | |
| | non noble metal | copper | 7440-50-8 | 3,438.006 | 56.69 | 56.77 | 566846 | 567584 |
| *deviation | < 10% | Sum in total: | | | | 100.00 | | 1000000 |

Important Remarks:

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This product is in compliance with EU Directive 2015/863/EU amending Annex II to EU Directive 2011/65/EU (RoHS) and does not use any exemption.

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| Company | Infineon Technologies AG |
| Address | 81726 Neubiberg |
| Internet | www.infineon.com |