

# Material Content Data Sheet

RoHS | Halogen-Free

| | | | |
|---|---|---|---|
| **Sales Product Name** | IPW60R180P7 | **Issued** | 11. December 2019 |
| **MA#** | MA005410314 | | |
| **Package** | PG-TO247-3-44 | **Weight*** | 6047.70 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 | 4.174 | 0.07 | 0.07 | 690 | 690 |
| leadframe | inorganic material | phosphorus | 7723-14-0 | 0.159 | 0.00 | | 26 | |
| | non noble metal | iron | 7439-89-6 | 0.530 | 0.01 | | 88 | |
| | non noble metal | copper | 7440-50-8 | 529.068 | 8.75 | 8.76 | 87483 | 87597 |
| wire | non noble metal | aluminium | 7429-90-5 | 5.077 | 0.08 | 0.08 | 839 | 839 |
| encapsulation | organic material | carbon black | 1333-86-4 | 20.028 | 0.33 | | 3312 | |
| | plastics | epoxy resin | - | 380.529 | 6.29 | | 62921 | |
| | inorganic material | silicondioxide | 60676-86-0 | 1602.226 | 26.49 | 33.11 | 264932 | 331165 |
| leadfinish | non noble metal | tin | 7440-31-5 | 31.874 | 0.53 | 0.53 | 5270 | 5270 |
| plating | non noble metal | nickel | 7440-02-0 | 29.065 | 0.48 | 0.48 | 4806 | 4806 |
| solder | non noble metal | antimony | 7440-36-0 | 0.249 | 0.00 | | 41 | |
| | noble metal | silver | 7440-22-4 | 0.623 | 0.01 | | 103 | |
| | non noble metal | tin | 7440-31-5 | 1.621 | 0.03 | 0.04 | 268 | 412 |
| heatspreader | inorganic material | phosphorus | 7723-14-0 | 1.033 | 0.02 | | 171 | |
| | non noble metal | iron | 7439-89-6 | 3.442 | 0.06 | | 569 | |
| | non noble metal | copper | 7440-50-8 | 3438.006 | 56.85 | 56.93 | 568481 | 569221 |
| *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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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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