

# Material Content Data Sheet

RoHS | Halogen-Free

| | | | |
|---|---|---|---|
| **Sales Product Name** | IPW60R199CP | **Issued** | 06. April 2021 |
| **MA#** | MA001674946 | | |
| **Package** | PG-TO247-3-41 | **Weight*** | 6049.82 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 | 8.809 | 0.15 | 0.15 | 1456 | 1456 |
| leadframe | inorganic material | phosphorus | 7723-14-0 | 0.159 | | | 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 | 87452 | 87566 |
| wire | non noble metal | aluminium | 7429-90-5 | 5.281 | 0.09 | 0.09 | 873 | 873 |
| encapsulation | organic material | carbon black | 1333-86-4 | 19.984 | 0.33 | | 3303 | |
| | plastics | epoxy resin | - | 379.687 | 6.28 | | 62760 | |
| | inorganic material | silicondioxide | 60676-86-0 | 1,598.684 | 26.43 | 33.04 | 264253 | 330316 |
| leadfinish | non noble metal | tin | 7440-31-5 | 31.874 | 0.53 | 0.53 | 5269 | 5269 |
| plating | non noble metal | nickel | 7440-02-0 | 29.065 | 0.48 | 0.48 | 4804 | 4804 |
| solder | non noble metal | antimony | 7440-36-0 | 0.420 | 0.01 | | 69 | |
| | noble metal | silver | 7440-22-4 | 1.049 | 0.02 | | 173 | |
| | non noble metal | tin | 7440-31-5 | 2.727 | 0.05 | 0.08 | 451 | 693 |
| 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 | 3,438.006 | 56.79 | 56.87 | 568283 | 569023 |
| *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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