

# Material Content Data Sheet

RoHS | Halogen-Free

| | | | |
|---|---|---|---|
| **Sales Product Name** | IDW32G65C5B | **Issued** | 31. January 2019 |
| **MA#** | MA001675332 | | |
| **Package** | PG-TO247-3-41 | **Weight*** | 6045.17 mg |

| Construction Element | Material Group | Substances | CAS# if applicable | Weight [mg] | Average Mass [%] | Sum [%] | Average Mass [ppm] | Sum [ppm] |
|---|---|---|---|---|---|---|---|---|
| chip_1 | inorganic material | silicon | 7440-21-3 | 0.873 | 0.01 | 0.01 | 144 | 144 |
| chip_2 | inorganic material | silicon | 7440-21-3 | 0.873 | 0.01 | 0.01 | 144 | 144 |
| 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 | 87519 | 87633 |
| wire | non noble metal | aluminium | 7429-90-5 | 1.801 | 0.03 | 0.03 | 298 | 298 |
| encapsulation | organic material | carbon black | 1333-86-4 | 20.071 | 0.33 | | 3320 | |
| | plastics | epoxy resin | - | 381.345 | 6.31 | | 63083 | |
| | inorganic material | silicondioxide | 60676-86-0 | 1605.662 | 26.56 | 33.20 | 265611 | 332014 |
| leadfinish | non noble metal | tin | 7440-31-5 | 31.874 | 0.53 | 0.53 | 5273 | 5273 |
| plating | non noble metal | nickel | 7440-02-0 | 29.065 | 0.48 | 0.48 | 4808 | 4808 |
| solder | non noble metal | antimony | 7440-36-0 | 0.136 | 0.00 | | 23 | |
| | noble metal | silver | 7440-22-4 | 0.341 | 0.01 | | 56 | |
| | non noble metal | tin | 7440-31-5 | 0.886 | 0.01 | 0.02 | 147 | 226 |
| 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 | 56.88 | 56.96 | 568720 | 569460 |
| *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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