

# Material Content Data Sheet

RoHS | Halogen-Free

| | | | |
|---|---|---|---|
| **Sales Product Name** | IPD18DP10LM | **Issued** | 24. February 2022 |
| **MA#** | MA005709184 | | |
| **Package** | PG-TO252-3-313 | **Weight*** | 318.55 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 | 2.545 | 0.80 | 0.80 | 7988 | 7988 |
| leadframe | inorganic material | phosphorus | 7723-14-0 | 0.044 | 0.01 | | 139 | |
| | non noble metal | iron | 7439-89-6 | 0.147 | 0.05 | | 462 | |
| | non noble metal | copper | 7440-50-8 | 147.096 | 46.17 | 46.23 | 461774 | 462375 |
| wire | non noble metal | aluminium | 7429-90-5 | 1.453 | 0.46 | 0.46 | 4562 | 4562 |
| encapsulation | inorganic material | zincoxide | 1314-13-2 | 1.406 | 0.44 | | 4414 | |
| | miscellaneous | miscellaneous | - | 7.030 | 2.21 | | 22070 | |
| | plastics | epoxy resin | - | 21.091 | 6.62 | | 66211 | |
| | inorganic material | silicondioxide | 60676-86-0 | 111.080 | 34.87 | 44.14 | 348709 | 441404 |
| leadfinish | non noble metal | tin | 7440-31-5 | 3.740 | 1.17 | 1.17 | 11741 | 11741 |
| plating | inorganic material | phosphorus | 7723-14-0 | 0.003 | | | 11 | |
| | non noble metal | nickel | 7440-02-0 | 1.421 | 0.45 | 0.45 | 4459 | 4470 |
| solder | non noble metal | tin | 7440-31-5 | 0.046 | 0.01 | | 144 | |
| | noble metal | silver | 7440-22-4 | 0.057 | 0.02 | | 179 | |
| | non noble metal | lead | 7439-92-1 | 2.184 | 0.69 | 0.72 | 6856 | 7179 |
| heatspreader | inorganic material | phosphorus | 7723-14-0 | 0.006 | | | 18 | |
| | non noble metal | iron | 7439-89-6 | 0.019 | 0.01 | | 60 | |
| | non noble metal | copper | 7440-50-8 | 19.177 | 6.02 | 6.03 | 60203 | 60281 |
| *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 contains Pb according RoHS exemption 7a, Lead in high melting temperature type solders.



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