

# Material Content Data Sheet

RoHS | Halogen-Free

| | | | |
|---|---|---|---|
| **Sales Product Name** | IMSQ120R053M2HH | **Issued** | 04. March 2025 |
| **MA#** | MA005873265 | | |
| **Package** | PG-HDSOP-16-221 | **Weight*** | 1857.85 mg |

| Construction Element | Material Group | Substances | CAS# if applicable | Weight [mg] | Average Mass [%] | Sum [%] | Average Mass [ppm] | Sum [ppm] |
|---|---|---|---|---|---|---|---|---|
| chip_1 | non noble metal | tin | 7440-31-5 | 0.037 | 0.002 | 0.128 | 20 | 1281 |
| | noble metal | gold | 7440-57-5 | 0.143 | 0.008 | | 77 | |
| | inorganic material | siliconcarbide | 409-21-2 | 2.201 | 0.118 | | 1185 | |
| chip_2 | non noble metal | tin | 7440-31-5 | 0.037 | 0.002 | 0.128 | 20 | 1281 |
| | noble metal | gold | 7440-57-5 | 0.143 | 0.008 | | 77 | |
| | inorganic material | siliconcarbide | 409-21-2 | 2.201 | 0.118 | | 1185 | |
| leadframe | inorganic material | phosphorus | 7723-14-0 | 0.325 | 0.017 | 58.271 | 175 | 582706 |
| | non noble metal | iron | 7439-89-6 | 1.083 | 0.058 | | 583 | |
| | non noble metal | copper | 7440-50-8 | 1081.174 | 58.195 | | 581949 | |
| wire | non noble metal | aluminium | 7429-90-5 | 8.055 | 0.434 | 0.434 | 4336 | 4336 |
| encapsulation | inorganic material | zincoxide | 1314-13-2 | 7.535 | 0.406 | 40.559 | 4056 | 405591 |
| | inorganic material | magnesium aluminum hydroxide carbonate | 11097-59-9 | 7.535 | 0.406 | | 4056 | |
| | miscellaneous | miscellaneous | - | 30.141 | 1.622 | | 16224 | |
| | plastics | epoxy resin | - | 113.029 | 6.084 | | 60839 | |
| | inorganic material | silicondioxide | 60676-86-0 | 595.286 | 32.042 | | 320417 | |
| leadfinish | non noble metal | tin | 7440-31-5 | 8.299 | 0.447 | 0.447 | 4467 | 4467 |
| plating | inorganic material | phosphorus | 7723-14-0 | 0.001 | < 0.001 | 0.034 | 1 | 337 |
| | non noble metal | nickel | 7440-02-0 | 0.625 | 0.034 | | 336 | |
| *deviation | < 10% | | | | Sum in total: | 100.000 | | 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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| Company | Infineon Technologies AG |
| Address | 81726 Neubiberg |
| Internet | www.infineon.com |