



Material Content Data Sheet



Halogen-Free

Sales Product Name IPD90N08S4-05

Issued

22. April 2022

MA# MA005711002

Package PG-TO252-3-313

Weight*

321.02 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 | 4.425 | 1.38 | 1.38 | 13785 | 13785 |
| leadframe | inorganic material | phosphorus | 7723-14-0 | 0.044 | 0.01 | | 138 | |
| | non noble metal | iron | 7439-89-6 | 0.147 | 0.05 | | 459 | |
| | non noble metal | copper | 7440-50-8 | 147.096 | 45.83 | 45.89 | 458211 | 458808 |
| wire | non noble metal | aluminium | 7429-90-5 | 5.602 | 1.74 | 1.74 | 17449 | 17449 |
| encapsulation | inorganic material | zinc oxide | 1314-13-2 | 1.359 | 0.42 | | 4233 | |
| | miscellaneous | miscellaneous | - | 6.794 | 2.12 | | 21164 | |
| | plastics | epoxy resin | - | 20.382 | 6.35 | | 63491 | |
| | inorganic material | silicon dioxide | 60676-86-0 | 107.346 | 33.44 | 42.33 | 334388 | 423276 |
| lead finish | non noble metal | tin | 7440-31-5 | 3.740 | 1.16 | 1.16 | 11650 | 11650 |
| plating | inorganic material | phosphorus | 7723-14-0 | 0.003 | | | 11 | |
| | non noble metal | nickel | 7440-02-0 | 1.421 | 0.44 | 0.44 | 4425 | 4436 |
| solder | non noble metal | tin | 7440-31-5 | 0.069 | 0.02 | | 216 | |
| | noble metal | silver | 7440-22-4 | 0.087 | 0.03 | | 269 | |
| | non noble metal | lead | 7439-92-1 | 3.305 | 1.03 | 1.08 | 10294 | 10779 |
| 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 | 5.97 | 5.98 | 59739 | 59817 |
| *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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