

# Material Content Data Sheet

RoHS | Halogen-Free

| | | | |
|---|---|---|---|
| **Sales Product Name** | TDA21520 | **Issued** | 21. August 2021 |
| **MA#** | MA005348552 | | |
| **Package** | PG-IQFN-25-1 | **Weight*** | 67.87 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 | 1.159 | 1.71 | 1.71 | 17080 | 17080 |
| chip_2 | inorganic material | silicon | 7440-21-3 | 0.224 | 0.33 | 0.33 | 3297 | 3297 |
| chip_3 | inorganic material | silicon | 7440-21-3 | 0.430 | 0.63 | 0.63 | 6329 | 6329 |
| leadframe | inorganic material | phosphorus | 7723-14-0 | 0.006 | 0.01 | | 95 | |
| | non noble metal | zinc | 7440-66-6 | 0.026 | 0.04 | | 381 | |
| | non noble metal | iron | 7439-89-6 | 0.517 | 0.76 | | 7613 | |
| | non noble metal | copper | 7440-50-8 | 20.980 | 30.91 | 31.72 | 309132 | 317221 |
| wire | noble metal | gold | 7440-57-5 | 0.290 | 0.43 | 0.43 | 4274 | 4274 |
| encapsulation | organic material | carbon black | 1333-86-4 | 0.247 | 0.36 | | 3638 | |
| | non noble metal | metal hydroxide | - | 0.494 | 0.73 | | 7277 | |
| | inorganic material | amorphous silica | 7631-86-9 | 1.729 | 2.55 | | 25469 | |
| | plastics | epoxy resin | - | 2.469 | 3.64 | | 36384 | |
| | inorganic material | silicondioxide | 60676-86-0 | 19.755 | 29.11 | 36.39 | 291072 | 363840 |
| leadfinish | noble metal | palladium | 7440-05-3 | 0.002 | | | 24 | |
| | noble metal | gold | 7440-57-5 | 0.003 | | | 39 | |
| | non noble metal | nickel | 7440-02-0 | 0.048 | 0.07 | 0.07 | 712 | 775 |
| plating | noble metal | silver | 7440-22-4 | 0.472 | 0.70 | 0.70 | 6960 | 6960 |
| solder | noble metal | silver | 7440-22-4 | 0.064 | 0.09 | | 945 | |
| | non noble metal | tin | 7440-31-5 | 0.128 | 0.19 | | 1891 | |
| | non noble metal | lead | 7439-92-1 | 2.374 | 3.50 | 3.78 | 34976 | 37812 |
| heat sink clip | inorganic material | phosphorus | 7723-14-0 | 0.005 | 0.01 | | 73 | |
| | non noble metal | zinc | 7440-66-6 | 0.020 | 0.03 | | 291 | |
| | non noble metal | iron | 7439-89-6 | 0.395 | 0.58 | | 5818 | |
| | non noble metal | copper | 7440-50-8 | 16.033 | 23.62 | 24.24 | 236230 | 242412 |
| *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 contains Pb according RoHS exemption 7a, Lead in high melting temperature type solders.

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