

# Material Content Data Sheet

RoHS | Halogen-Free

| | | | |
|---|---|---|---|
| **Sales Product Name** | TDA21320 | **Issued** | 04. April 2021 |
| **MA#** | MA001622354 | | |
| **Package** | LG-WIQFN-38-2 | **Weight*** | 93.67 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 | 0.301 | 0.32 | 0.32 | 3218 | 3218 |
| chip_2 | non noble metal | tin | 7440-31-5 | 0.020 | 0.02 | | 211 | |
| | noble metal | gold | 7440-57-5 | 0.077 | 0.08 | | 819 | |
| | inorganic material | silicon | 7440-21-3 | 0.441 | 0.47 | 0.57 | 4712 | 5742 |
| chip_3 | non noble metal | tin | 7440-31-5 | 0.052 | 0.06 | | 559 | |
| | noble metal | gold | 7440-57-5 | 0.203 | 0.22 | | 2168 | |
| | inorganic material | silicon | 7440-21-3 | 1.168 | 1.25 | 1.53 | 12474 | 15201 |
| leadframe | inorganic material | phosphorus | 7723-14-0 | 0.017 | 0.02 | | 185 | |
| | non noble metal | iron | 7439-89-6 | 0.058 | 0.06 | | 616 | |
| | non noble metal | copper | 7440-50-8 | 57.648 | 61.54 | 61.62 | 615451 | 616252 |
| solder | non noble metal | copper | 7440-50-8 | 0.045 | 0.05 | | 479 | |
| | noble metal | silver | 7440-22-4 | 0.269 | 0.29 | | 2875 | |
| | non noble metal | tin | 7440-31-5 | 8.663 | 9.25 | 9.59 | 92482 | 95836 |
| glue | inorganic material | silicondioxide | 60676-86-0 | 0.031 | 0.03 | | 336 | |
| | plastics | maleimide resin | - | 0.031 | 0.03 | 0.06 | 336 | 672 |
| solder resists | organic material | carbon black | 1333-86-4 | 0.011 | 0.01 | | 117 | |
| | inorganic material | bariumsulfate | 7727-43-7 | 0.110 | 0.12 | | 1173 | |
| | inorganic material | silicondioxide | 60676-86-0 | 0.373 | 0.40 | | 3987 | |
| | plastics | acryl epoxy resin | - | 0.604 | 0.64 | 1.17 | 6449 | 11726 |
| substrate metal | non noble metal | copper | 7440-50-8 | 13.326 | 14.23 | 14.23 | 142266 | 142266 |
| substrate plastic | inorganic material | aluminiumhydroxide | 21645-51-2 | 1.635 | 1.75 | | 17454 | |
| | inorganic material | silicondioxide | 60676-86-0 | 2.146 | 2.29 | | 22908 | |
| | plastics | epoxy resin | - | 2.861 | 3.05 | | 30544 | |
| | inorganic material | glass fibre | - | 3.576 | 3.82 | 10.91 | 38181 | 109087 |
| *deviation | < 10% | | | | Sum in total: | 100.00 | | 1000000 |

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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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