

# Material Content Data Sheet

RoHS | Halogen-Free

| | | | |
|---|---|---|---|
| **Sales Product Name** | TLD5542-1QU | **Issued** | 22. April 2022 |
| **MA#** | MA005401459 | | |
| **Package** | PG-TQFP-48-9 | **Weight*** | 144.59 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 | 2.441 | 1.69 | 1.69 | 16884 | 16884 |
| leadframe | inorganic material | phosphorus | 7723-14-0 | 0.017 | 0.01 | | 116 | |
| | non noble metal | zinc | 7440-66-6 | 0.067 | 0.05 | | 462 | |
| | non noble metal | iron | 7439-89-6 | 1.337 | 0.92 | | 9246 | |
| | non noble metal | copper | 7440-50-8 | 54.283 | 37.54 | 38.52 | 375430 | 385254 |
| wire | non noble metal | copper | 7440-50-8 | 0.590 | 0.41 | 0.41 | 4080 | 4080 |
| encapsulation | organic material | carbon black | 1333-86-4 | 0.404 | 0.28 | | 2796 | |
| | plastics | epoxy resin | - | 10.914 | 7.55 | | 75480 | |
| | inorganic material | silicondioxide | 60676-86-0 | 69.524 | 48.09 | 55.92 | 480836 | 559112 |
| leadfinish | noble metal | silver | 7440-22-4 | 0.001 | | | 7 | |
| | noble metal | palladium | 7440-05-3 | 0.001 | | | 8 | |
| | noble metal | gold | 7440-57-5 | 0.002 | | | 12 | |
| | non noble metal | nickel | 7440-02-0 | 1.808 | 1.25 | 1.25 | 12507 | 12534 |
| plating | noble metal | silver | 7440-22-4 | 0.001 | | | 8 | |
| | noble metal | palladium | 7440-05-3 | 0.001 | | | 9 | |
| | noble metal | gold | 7440-57-5 | 0.002 | | | 14 | |
| | non noble metal | nickel | 7440-02-0 | 2.052 | 1.42 | 1.42 | 14190 | 14221 |
| glue | plastics | epoxy resin | - | 0.229 | 0.16 | | 1583 | |
| | noble metal | silver | 7440-22-4 | 0.916 | 0.63 | 0.79 | 6332 | 7915 |
| *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 does not use any exemption.



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