

# Material Content Data Sheet

RoHS

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|---|---|---|---|
| **Sales Product Name** | TLE4953C | **Issued** | 27. April 2022 |
| **MA#** | MA005730456 | | |
| **Package** | PG-SSO-2-4 | **Weight*** | 169.25 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 | 2.522 | 1.49 | 1.49 | 14901 | 14901 |
| leadframe | non noble metal | chromium | 7440-47-3 | 0.288 | 0.17 | | 1701 | |
| | non noble metal | titanium | 7440-32-6 | 0.288 | 0.17 | | 1701 | |
| | non noble metal | nickel | 7440-02-0 | 0.384 | 0.23 | | 2269 | |
| | non noble metal | tin | 7440-31-5 | 0.576 | 0.34 | | 3403 | |
| | non noble metal | copper | 7440-50-8 | 94.449 | 55.80 | 56.71 | 558056 | 567130 |
| wire | noble metal | gold | 7440-57-5 | 0.039 | 0.02 | 0.02 | 232 | 232 |
| encapsulation | organic material | carbon black | 1333-86-4 | 0.459 | 0.27 | | 2710 | |
| | plastics | brominated resin | - | 0.573 | 0.34 | | 3388 | |
| | inorganic material | antimonytrioxide | 1309-64-4 | 1.147 | 0.68 | | 6776 | |
| | plastics | epoxy resin | - | 10.436 | 6.17 | | 61659 | |
| | inorganic material | silicondioxide | 60676-86-0 | 44.724 | 26.43 | 33.89 | 264253 | 338786 |
| leadfinish | non noble metal | tin | 7440-31-5 | 6.247 | 3.69 | 3.69 | 36910 | 36910 |
| plating | noble metal | silver | 7440-22-4 | 0.986 | 0.58 | 0.58 | 5824 | 5824 |
| glue | plastics | epoxy resin | - | 0.158 | 0.09 | | 932 | |
| | noble metal | silver | 7440-22-4 | 0.631 | 0.37 | 0.46 | 3726 | 4658 |
| smd | noble metal | palladium | 7440-05-3 | 0.040 | 0.02 | | 237 | |
| | inorganic material | titandioxide | 13463-67-7 | 0.099 | 0.06 | | 587 | |
| | inorganic material | bismuth trioxide | 1304-76-3 | 0.387 | 0.23 | | 2288 | |
| | noble metal | silver | 7440-22-4 | 0.439 | 0.26 | | 2594 | |
| | inorganic material | bariumtitanate | 12047-27-7 | 4.375 | 2.59 | 3.16 | 25853 | 31559 |
| *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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