



## Material Content Data Sheet



Halogen-Free

|                           |             |                |                   |
|---------------------------|-------------|----------------|-------------------|
| <b>Sales Product Name</b> | TLE9251VLE  | <b>Issued</b>  | 24. February 2022 |
| <b>MA#</b>                | MA005708433 |                |                   |
| <b>Package</b>            | PG-TSON-8-1 | <b>Weight*</b> | 26.86 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          | 0.790       | 2.94             | 2.94    | 29396              | 29396     |
| leadframe            | inorganic material | phosphorus     | 7723-14-0          | 0.003       | 0.01             |         | 110                |           |
|                      | non noble metal    | zinc           | 7440-66-6          | 0.012       | 0.04             |         | 439                |           |
|                      | non noble metal    | iron           | 7439-89-6          | 0.236       | 0.88             |         | 8788               |           |
|                      | non noble metal    | copper         | 7440-50-8          | 9.586       | 35.68            | 36.61   | 356828             | 366165    |
| wire                 | non noble metal    | copper         | 7440-50-8          | 0.046       | 0.17             | 0.17    | 1730               | 1730      |
| encapsulation        | organic material   | carbon black   | 1333-86-4          | 0.031       | 0.11             |         | 1142               |           |
|                      | plastics           | epoxy resin    | -                  | 1.580       | 5.88             |         | 58819              |           |
|                      | inorganic material | silicondioxide | 60676-86-0         | 13.730      | 51.12            | 57.11   | 511099             | 571060    |
| leadfinish           | non noble metal    | tin            | 7440-31-5          | 0.382       | 1.42             | 1.42    | 14227              | 14227     |
| plating              | noble metal        | silver         | 7440-22-4          | 0.043       | 0.16             | 0.16    | 1618               | 1618      |
| glue                 | inorganic material | copperoxide    | 1317-38-0          | 0.011       | 0.04             |         | 395                |           |
|                      | miscellaneous      | miscellaneous  | -                  | 0.013       | 0.05             |         | 474                |           |
|                      | plastics           | epoxy resin    | -                  | 0.074       | 0.28             |         | 2766               |           |
|                      | noble metal        | silver         | 7440-22-4          | 0.327       | 1.22             | 1.59    | 12169              | 15804     |
| *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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