



## Material Content Data Sheet



Halogen-Free

|                           |              |                |                 |
|---------------------------|--------------|----------------|-----------------|
| <b>Sales Product Name</b> | TLE5014S16D  | <b>Issued</b>  | 19. August 2021 |
| <b>MA#</b>                | MA003664622  |                |                 |
| <b>Package</b>            | PG-TDSO-16-2 | <b>Weight*</b> | 68.69 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          | 1.061       | 1.54             | 1.54    | 15448              | 15448     |
| chip_2               | inorganic material | silicon        | 7440-21-3          | 1.061       | 1.54             | 1.54    | 15448              | 15448     |
| leadframe            | inorganic material | silicon        | 7440-21-3          | 0.007       | 0.01             |         | 95                 |           |
|                      | non noble metal    | titanium       | 7440-32-6          | 0.033       | 0.05             |         | 473                |           |
|                      | non noble metal    | chromium       | 7440-47-3          | 0.098       | 0.14             |         | 1420               |           |
|                      | non noble metal    | copper         | 7440-50-8          | 32.380      | 47.16            | 47.36   | 471394             | 473382    |
| wire                 | noble metal        | gold           | 7440-57-5          | 0.131       | 0.19             | 0.19    | 1904               | 1904      |
| encapsulation        | organic material   | carbon black   | 1333-86-4          | 0.061       | 0.09             |         | 895                |           |
|                      | plastics           | epoxy resin    | -                  | 3.319       | 4.83             |         | 48311              |           |
|                      | inorganic material | silicondioxide | 60676-86-0         | 27.347      | 39.81            | 44.73   | 398121             | 447327    |
| leadfinish           | non noble metal    | tin            | 7440-31-5          | 1.198       | 1.74             | 1.74    | 17435              | 17435     |
| plating              | noble metal        | silver         | 7440-22-4          | 1.680       | 2.45             | 2.45    | 24464              | 24464     |
| glue                 | plastics           | epoxy resin    | -                  | 0.079       | 0.11             |         | 1148               |           |
|                      | plastics           | acrylic resin  | -                  | 0.079       | 0.11             |         | 1148               |           |
|                      | inorganic material | silicondioxide | 60676-86-0         | 0.158       | 0.23             | 0.45    | 2296               | 4592      |
| *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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