



## Material Content Data Sheet



Halogen-Free

|                           |                  |                |               |
|---------------------------|------------------|----------------|---------------|
| <b>Sales Product Name</b> | TLE5109A16 E2210 | <b>Issued</b>  | 24. June 2021 |
| <b>MA#</b>                | MA005550220      |                |               |
| <b>Package</b>            | PG-TDSO-16-1     | <b>Weight*</b> | 68.56 mg      |

| Construction Element | Material Group     | Substances     | CAS#<br>if applicable | Weight [mg] | Average<br>Mass [%] | Sum [%] | Average<br>Mass<br>[ppm] | Sum [ppm] |
|----------------------|--------------------|----------------|-----------------------|-------------|---------------------|---------|--------------------------|-----------|
| chip                 | inorganic material | silicon        | 7440-21-3             | 0.681       | 0.99                | 0.99    | 9935                     | 9935      |
| leadframe            | inorganic material | silicon        | 7440-21-3             | 0.007       | 0.01                |         | 95                       |           |
|                      | non noble metal    | titanium       | 7440-32-6             | 0.033       | 0.05                |         | 474                      |           |
|                      | non noble metal    | chromium       | 7440-47-3             | 0.098       | 0.14                |         | 1423                     |           |
|                      | non noble metal    | copper         | 7440-50-8             | 32.380      | 47.25               | 47.45   | 472306                   | 474298    |
| wire                 | noble metal        | gold           | 7440-57-5             | 0.119       | 0.17                | 0.17    | 1743                     | 1743      |
| encapsulation        | organic material   | carbon black   | 1333-86-4             | 0.064       | 0.09                |         | 941                      |           |
|                      | plastics           | epoxy resin    | -                     | 3.483       | 5.08                |         | 50798                    |           |
|                      | inorganic material | silicondioxide | 60676-86-0            | 28.699      | 41.86               | 47.03   | 418612                   | 470351    |
| leadfinish           | non noble metal    | tin            | 7440-31-5             | 1.198       | 1.75                | 1.75    | 17469                    | 17469     |
| plating              | noble metal        | silver         | 7440-22-4             | 1.680       | 2.45                | 2.45    | 24511                    | 24511     |
| glue                 | plastics           | epoxy resin    | -                     | 0.029       | 0.04                |         | 423                      |           |
|                      | plastics           | acrylic resin  | -                     | 0.029       | 0.04                |         | 423                      |           |
|                      | inorganic material | silicondioxide | 60676-86-0            | 0.058       | 0.08                | 0.16    | 847                      | 1693      |
| *deviation           | < 10%              | Sum in total:  |                       |             |                     | 100.00  |                          | 1000000   |

### Important Remarks:

1. Infineon Technologies AG provides full material declaration based on information provided by third parties and has taken and continues to take reasonable steps to provide representative and accurate information.
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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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