



## Material Content Data Sheet



Halogen-Free

|                           |               |                |                |
|---------------------------|---------------|----------------|----------------|
| <b>Sales Product Name</b> | ISO11811T     | <b>Issued</b>  | 08. April 2021 |
| <b>MA#</b>                | MA005337482   |                |                |
| <b>Package</b>            | PG-TSSOP-48-3 | <b>Weight*</b> | 215.35 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          | 4.202       | 1.95             | 1.95    | 19513              | 19513     |
| chip_2               | inorganic material | silicon        | 7440-21-3          | 5.055       | 2.35             | 2.35    | 23475              | 23475     |
| leadframe            | inorganic material | phosphorus     | 7723-14-0          | 0.023       | 0.01             |         | 107                |           |
|                      | non noble metal    | zinc           | 7440-66-6          | 0.092       | 0.04             |         | 426                |           |
|                      | non noble metal    | iron           | 7439-89-6          | 1.835       | 0.85             |         | 8521               |           |
|                      | non noble metal    | copper         | 7440-50-8          | 74.503      | 34.60            | 35.50   | 345970             | 355024    |
| wires                | noble metal        | palladium      | 7440-05-3          | 0.001       |                  |         | 5                  |           |
|                      | noble metal        | platinum       | 7440-06-4          | 0.003       |                  |         | 16                 |           |
|                      | noble metal        | gold           | 7440-57-5          | 0.448       | 0.21             | 0.21    | 2082               | 2103      |
| encapsulation        | organic material   | carbon black   | 1333-86-4          | 0.617       | 0.29             |         | 2864               |           |
|                      | plastics           | epoxy resin    | -                  | 19.117      | 8.88             |         | 88775              |           |
|                      | inorganic material | silicondioxide | 60676-86-0         | 103.603     | 48.09            | 57.26   | 481102             | 572741    |
| leadfinish           | non noble metal    | tin            | 7440-31-5          | 2.382       | 1.11             | 1.11    | 11062              | 11062     |
| plating              | noble metal        | silver         | 7440-22-4          | 0.399       | 0.19             | 0.19    | 1851               | 1851      |
| glue                 | plastics           | epoxy resin    | -                  | 0.766       | 0.36             |         | 3558               |           |
|                      | noble metal        | silver         | 7440-22-4          | 2.298       | 1.07             | 1.43    | 10673              | 14231     |
| *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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