



## Material Content Data Sheet



Halogen-Free

**Sales Product Name** TL14971-A050T5-E0001

**Issued**

09. February 2022

**MA#** MA005539133

**Package** PG-TISON-8-5

**Weight\***

172.44 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             | 1.017       | 0.59                | 0.59    | 5895                     | 5895      |
| leadframe            | non noble metal    | zinc             | 7440-66-6             | 0.103       | 0.06                |         | 599                      |           |
|                      | non noble metal    | tin              | 7440-31-5             | 0.129       | 0.07                |         | 749                      |           |
|                      | non noble metal    | chromium         | 7440-47-3             | 0.155       | 0.09                |         | 899                      |           |
|                      | non noble metal    | copper           | 7440-50-8             | 51.262      | 29.73               | 29.95   | 297281                   | 299528    |
| wire                 | noble metal        | gold             | 7440-57-5             | 0.270       | 0.16                | 0.16    | 1563                     | 1563      |
| encapsulation        | organic material   | carbon black     | 1333-86-4             | 0.235       | 0.14                |         | 1363                     |           |
|                      | plastics           | epoxy resin      | -                     | 14.455      | 8.38                |         | 83829                    |           |
|                      | inorganic material | silicondioxide   | 60676-86-0            | 102.831     | 59.63               | 68.15   | 596346                   | 681538    |
| leadfinish           | non noble metal    | tin              | 7440-31-5             | 1.774       | 1.03                | 1.03    | 10286                    | 10286     |
| plating              | noble metal        | silver           | 7440-22-4             | 0.083       | 0.05                | 0.05    | 482                      | 482       |
| tape                 | miscellaneous      | miscellaneous    | -                     | 0.001       |                     |         | 7                        |           |
|                      | plastics           | phenol resin     | -                     | 0.006       |                     |         | 35                       |           |
|                      | inorganic material | amorphous silica | 7631-86-9             | 0.051       | 0.03                |         | 298                      |           |
|                      | plastics           | acrylic resin    | -                     | 0.064       | 0.04                | 0.07    | 368                      | 708       |
| *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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