



## Material Content Data Sheet

| <b>Sales Product Name</b> |                    | TLE4205G         |                       | <b>Issued</b>  |                        | 25. September 2017 |                          |              |
|---------------------------|--------------------|------------------|-----------------------|----------------|------------------------|--------------------|--------------------------|--------------|
| <b>MA#</b>                |                    | MA000040993      |                       |                |                        |                    |                          |              |
| <b>Package</b>            |                    | P-DSO-20-17      |                       | <b>Weight*</b> |                        | 468.56 mg          |                          |              |
| Construction Element      | Material Group     | Substances       | CAS#<br>if applicable | Weight<br>[mg] | Average<br>Mass<br>[%] | Sum<br>[%]         | Average<br>Mass<br>[ppm] | Sum<br>[ppm] |
| chip                      | inorganic material | silicon          | 7440-21-3             | 5.461          | 1.17                   | 1.17               | 11655                    | 11655        |
| leadframe                 | inorganic material | phosphorus       | 7723-14-0             | 0.036          | 0.01                   |                    | 76                       |              |
|                           | non noble metal    | zinc             | 7440-66-6             | 0.143          | 0.03                   |                    | 305                      |              |
|                           | non noble metal    | iron             | 7439-89-6             | 2.862          | 0.61                   |                    | 6107                     |              |
|                           | non noble metal    | copper           | 7440-50-8             | 116.197        | 24.80                  | 25.45              | 247990                   | 254478       |
| wire                      | noble metal        | gold             | 7440-57-5             | 0.394          | 0.08                   | 0.08               | 840                      | 840          |
| encapsulation             | plastics           | brominated resin | -                     | 3.390          | 0.72                   |                    | 7236                     |              |
|                           | organic material   | carbon black     | 1333-86-4             | 3.390          | 0.72                   |                    | 7236                     |              |
|                           | inorganic material | antimonytrioxide | 1309-64-4             | 7.120          | 1.52                   |                    | 15195                    |              |
|                           | plastics           | epoxy resin      | -                     | 36.956         | 7.89                   |                    | 78872                    |              |
|                           | inorganic material | silicondioxide   | 60676-86-0            | 288.185        | 61.50                  | 72.35              | 615051                   | 723590       |
| leadfinish                | non noble metal    | lead             | 7439-92-1             | 0.259          | 0.06                   |                    | 554                      |              |
|                           | non noble metal    | tin              | 7440-31-5             | 0.934          | 0.20                   | 0.26               | 1993                     | 2547         |
| plating                   | noble metal        | silver           | 7440-22-4             | 1.177          | 0.25                   | 0.25               | 2511                     | 2511         |
| glue                      | plastics           | epoxy resin      | -                     | 0.410          | 0.09                   |                    | 876                      |              |
|                           | noble metal        | silver           | 7440-22-4             | 1.641          | 0.35                   | 0.44               | 3503                     | 4379         |
| *deviation                | < 10%              |                  |                       |                |                        | Sum in total:      | 100.00                   | 1000000      |

### Important Remarks:

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