



## Material Content Data Sheet



Halogen-Free

|                           |                |                |              |
|---------------------------|----------------|----------------|--------------|
| <b>Sales Product Name</b> | IDD04SG60C     | <b>Issued</b>  | 11. May 2021 |
| <b>MA#</b>                | MA001641586    |                |              |
| <b>Package</b>            | PG-TO252-3-311 | <b>Weight*</b> | 320.24 mg    |

| Construction Element | Material Group     | Substances     | CAS# if applicable | Weight [mg] | Average Mass [%] | Sum [%] | Average Mass [ppm] | Sum [ppm] |
|----------------------|--------------------|----------------|--------------------|-------------|------------------|---------|--------------------|-----------|
| chip                 | non noble metal    | tin            | 7440-31-5          | 0.005       |                  |         | 15                 |           |
|                      | noble metal        | gold           | 7440-57-5          | 0.019       | 0.01             |         | 58                 |           |
|                      | inorganic material | siliconcarbide | 409-21-2           | 0.741       | 0.23             | 0.24    | 2314               | 2387      |
| leadframe            | inorganic material | phosphorus     | 7723-14-0          | 0.043       | 0.01             |         | 134                |           |
|                      | non noble metal    | iron           | 7439-89-6          | 0.143       | 0.04             |         | 447                |           |
|                      | non noble metal    | copper         | 7440-50-8          | 143.098     | 44.67            | 44.72   | 446851             | 447432    |
| wire                 | non noble metal    | aluminium      | 7429-90-5          | 0.148       | 0.05             | 0.05    | 462                | 462       |
| encapsulation        | organic material   | carbon black   | 1333-86-4          | 0.306       | 0.10             |         | 956                |           |
|                      | plastics           | epoxy resin    | -                  | 14.077      | 4.40             |         | 43958              |           |
|                      | inorganic material | silicondioxide | 60676-86-0         | 138.628     | 43.29            | 47.79   | 432892             | 477806    |
| leadfinish           | non noble metal    | tin            | 7440-31-5          | 3.740       | 1.17             | 1.17    | 11679              | 11679     |
| plating              | inorganic material | phosphorus     | 7723-14-0          | 0.000       |                  |         | 1                  |           |
|                      | non noble metal    | nickel         | 7440-02-0          | 0.086       | 0.03             | 0.03    | 270                | 271       |
| heatspreader         | inorganic material | phosphorus     | 7723-14-0          | 0.006       |                  |         | 18                 |           |
|                      | non noble metal    | iron           | 7439-89-6          | 0.019       | 0.01             |         | 60                 |           |
|                      | non noble metal    | copper         | 7440-50-8          | 19.177      | 5.99             | 6.00    | 59885              | 59963     |
| *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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