



## Material Content Data Sheet



Halogen-Free

|                           |                |                |               |
|---------------------------|----------------|----------------|---------------|
| <b>Sales Product Name</b> | SPA17N80C3     | <b>Issued</b>  | 02. June 2021 |
| <b>MA#</b>                | MA001334382    |                |               |
| <b>Package</b>            | PG-TO220-3-313 | <b>Weight*</b> | 2205.88 mg    |

| Construction Element | Material Group     | Substances     | CAS# if applicable | Weight [mg] | Average Mass [%] | Sum [%] | Average Mass [ppm] | Sum [ppm] |
|----------------------|--------------------|----------------|--------------------|-------------|------------------|---------|--------------------|-----------|
| chip                 | inorganic material | silicon        | 7440-21-3          | 12.969      | 0.59             | 0.59    | 5879               | 5879      |
| leadframe            | inorganic material | phosphorus     | 7723-14-0          | 0.271       | 0.01             |         | 123                |           |
|                      | non noble metal    | iron           | 7439-89-6          | 0.903       | 0.04             |         | 410                |           |
|                      | non noble metal    | copper         | 7440-50-8          | 902.149     | 40.90            | 40.95   | 408974             | 409507    |
| wire                 | non noble metal    | aluminium      | 7429-90-5          | 3.639       | 0.16             | 0.16    | 1649               | 1649      |
| encapsulation        | organic material   | carbon black   | 1333-86-4          | 2.322       | 0.11             |         | 1053               |           |
|                      | plastics           | epoxy resin    | -                  | 212.399     | 9.63             |         | 96287              |           |
|                      | inorganic material | silicondioxide | 60676-86-0         | 911.054     | 41.29            | 51.03   | 413012             | 510352    |
| leadfinish           | non noble metal    | tin            | 7440-31-5          | 7.877       | 0.36             | 0.36    | 3571               | 3571      |
| plating              | non noble metal    | nickel         | 7440-02-0          | 1.656       | 0.08             | 0.08    | 751                | 751       |
| solder               | non noble metal    | antimony       | 7440-36-0          | 0.558       | 0.03             |         | 253                |           |
|                      | noble metal        | silver         | 7440-22-4          | 1.395       | 0.06             |         | 632                |           |
|                      | non noble metal    | tin            | 7440-31-5          | 3.626       | 0.16             | 0.25    | 1644               | 2529      |
| heatspreader         | inorganic material | phosphorus     | 7723-14-0          | 0.044       |                  |         | 20                 |           |
|                      | non noble metal    | iron           | 7439-89-6          | 0.145       | 0.01             |         | 66                 |           |
|                      | non noble metal    | copper         | 7440-50-8          | 144.874     | 6.57             | 6.58    | 65676              | 65762     |
| *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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