



## Material Content Data Sheet



Halogen-Free

|                           |               |                |                |
|---------------------------|---------------|----------------|----------------|
| <b>Sales Product Name</b> | IKW40N60H3    | <b>Issued</b>  | 11. April 2021 |
| <b>MA#</b>                | MA005348449   |                |                |
| <b>Package</b>            | PG-TO247-3-44 | <b>Weight*</b> | 6053.61 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          | 1.102       | 0.02             | 0.02    | 182                | 182       |
| chip_2               | inorganic material | silicon        | 7440-21-3          | 3.815       | 0.06             | 0.06    | 630                | 630       |
| leadframe            | inorganic material | phosphorus     | 7723-14-0          | 0.159       |                  |         | 26                 |           |
|                      | non noble metal    | iron           | 7439-89-6          | 0.530       | 0.01             |         | 88                 |           |
|                      | non noble metal    | copper         | 7440-50-8          | 529.068     | 8.74             | 8.75    | 87397              | 87511     |
| wire                 | non noble metal    | aluminium      | 7429-90-5          | 22.225      | 0.37             | 0.37    | 3671               | 3671      |
| encapsulation        | organic material   | carbon black   | 1333-86-4          | 19.897      | 0.33             |         | 3287               |           |
|                      | plastics           | epoxy resin    | -                  | 378.044     | 6.24             |         | 62449              |           |
|                      | inorganic material | silicondioxide | 60676-86-0         | 1,591.766   | 26.29            | 32.86   | 262945             | 328681    |
| leadfinish           | non noble metal    | tin            | 7440-31-5          | 31.874      | 0.53             | 0.53    | 5265               | 5265      |
| plating              | non noble metal    | nickel         | 7440-02-0          | 29.065      | 0.48             | 0.48    | 4801               | 4801      |
| solder               | non noble metal    | antimony       | 7440-36-0          | 0.358       | 0.01             |         | 59                 |           |
|                      | noble metal        | silver         | 7440-22-4          | 0.896       | 0.01             |         | 148                |           |
|                      | non noble metal    | tin            | 7440-31-5          | 2.329       | 0.04             | 0.06    | 385                | 592       |
| heatspreader         | inorganic material | phosphorus     | 7723-14-0          | 1.033       | 0.02             |         | 171                |           |
|                      | non noble metal    | iron           | 7439-89-6          | 3.442       | 0.06             |         | 569                |           |
|                      | non noble metal    | copper         | 7440-50-8          | 3,438.006   | 56.79            | 56.87   | 567927             | 568667    |
| *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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