



## Material Content Data Sheet



Halogen-Free

|                           |                |                |              |
|---------------------------|----------------|----------------|--------------|
| <b>Sales Product Name</b> | IKFW50N60DH3   | <b>Issued</b>  | 11. May 2021 |
| <b>MA#</b>                | MA001674414    |                |              |
| <b>Package</b>            | PG-HSIP247-3-1 | <b>Weight*</b> | 5919.99 mg   |

| Construction Element | Material Group     | Substances      | CAS#<br>if applicable | Weight [mg] | Average<br>Mass [%] | Sum [%] | Average<br>Mass<br>[ppm] | Sum [ppm] |
|----------------------|--------------------|-----------------|-----------------------|-------------|---------------------|---------|--------------------------|-----------|
| chip_1               | inorganic material | silicon         | 7440-21-3             | 0.970       | 0.02                | 0.02    | 164                      | 164       |
| chip_2               | inorganic material | silicon         | 7440-21-3             | 3.815       | 0.06                | 0.06    | 644                      | 644       |
| leadframe            | inorganic material | phosphorus      | 7723-14-0             | 0.164       |                     |         | 28                       |           |
|                      | non noble metal    | iron            | 7439-89-6             | 0.545       | 0.01                |         | 92                       |           |
|                      | non noble metal    | copper          | 7440-50-8             | 544.561     | 9.20                | 9.21    | 91987                    | 92107     |
| wire                 | non noble metal    | aluminium       | 7429-90-5             | 15.247      | 0.26                | 0.26    | 2575                     | 2575      |
| encapsulation        | inorganic material | zinc oxide      | 1314-13-2             | 6.001       | 0.10                |         | 1014                     |           |
|                      | plastics           | silicone resin  | -                     | 13.501      | 0.23                |         | 2281                     |           |
|                      | organic material   | carbon black    | 1333-86-4             | 21.743      | 0.37                |         | 3673                     |           |
|                      | inorganic material | alumina         | 1344-28-1             | 130.514     | 2.20                |         | 22046                    |           |
|                      | plastics           | epoxy resin     | -                     | 413.120     | 6.98                |         | 69784                    |           |
|                      | inorganic material | silicon dioxide | 60676-86-0            | 1,739.454   | 29.38               | 39.26   | 293827                   | 392625    |
| lead finish          | non noble metal    | tin             | 7440-31-5             | 16.291      | 0.28                | 0.28    | 2752                     | 2752      |
| plating              | inorganic material | phosphorus      | 7723-14-0             | 0.001       |                     |         | 1                        |           |
|                      | non noble metal    | nickel          | 7440-02-0             | 0.456       | 0.01                | 0.01    | 77                       | 78        |
| solder               | non noble metal    | antimony        | 7440-36-0             | 0.354       | 0.01                |         | 60                       |           |
|                      | noble metal        | silver          | 7440-22-4             | 0.885       | 0.01                |         | 149                      |           |
|                      | non noble metal    | tin             | 7440-31-5             | 2.301       | 0.04                | 0.06    | 389                      | 598       |
| heatspreader         | inorganic material | phosphorus      | 7723-14-0             | 0.903       | 0.02                |         | 153                      |           |
|                      | non noble metal    | iron            | 7439-89-6             | 3.010       | 0.05                |         | 508                      |           |
|                      | non noble metal    | copper          | 7440-50-8             | 3,006.154   | 50.77               | 50.84   | 507796                   | 508457    |
| *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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