



Material Content Data Sheet



Halogen-Free

| | | | |
|---------------------------|---------------|----------------|-------------------|
| Sales Product Name | IKW50N65ES5 | Issued | 09. February 2022 |
| MA# | MA005618708 | | |
| Package | PG-TO247-3-41 | Weight* | 6053.66 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 | 2.667 | 0.04 | 0.04 | 441 | 441 |
| chip_2 | inorganic material | silicon | 7440-21-3 | 2.181 | 0.04 | 0.04 | 360 | 360 |
| 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 | 87396 | 87510 |
| wire | non noble metal | aluminium | 7429-90-5 | 21.448 | 0.35 | 0.35 | 3543 | 3543 |
| encapsulation | organic material | carbon black | 1333-86-4 | 19.902 | 0.33 | | 3288 | |
| | plastics | epoxy resin | - | 378.143 | 6.25 | | 62465 | |
| | inorganic material | silicondioxide | 60676-86-0 | 1,592.180 | 26.30 | 32.88 | 263011 | 328764 |
| 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 | 0.396 | 0.01 | | 65 | |
| | noble metal | silver | 7440-22-4 | 0.990 | 0.02 | | 164 | |
| | non noble metal | tin | 7440-31-5 | 2.574 | 0.04 | 0.07 | 425 | 654 |
| 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 | 56.78 | 56.86 | 567922 | 568662 |
| *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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