



Material Content Data Sheet



Halogen-Free

| | | | |
|---------------------------|----------------|----------------|---------------|
| Sales Product Name | IKA15N65ET6 | Issued | 25. June 2021 |
| MA# | MA005557693 | | |
| Package | PG-TO220-3-313 | Weight* | 2208.87 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 | 0.448 | 0.02 | 0.02 | 203 | 203 |
| chip_2 | inorganic material | silicon | 7440-21-3 | 1.058 | 0.05 | 0.05 | 479 | 479 |
| leadframe | inorganic material | phosphorus | 7723-14-0 | 0.271 | 0.01 | | 123 | |
| | non noble metal | iron | 7439-89-6 | 0.903 | 0.04 | | 409 | |
| | non noble metal | copper | 7440-50-8 | 902.149 | 40.84 | 40.89 | 408421 | 408953 |
| wire | non noble metal | aluminium | 7429-90-5 | 2.525 | 0.11 | 0.11 | 1143 | 1143 |
| encapsulation | organic material | carbon black | 1333-86-4 | 2.299 | 0.10 | | 1041 | |
| | plastics | epoxy resin | - | 215.439 | 9.75 | | 97533 | |
| | inorganic material | silicondioxide | 60676-86-0 | 927.769 | 42.00 | 51.85 | 420020 | 518594 |
| leadfinish | non noble metal | tin | 7440-31-5 | 7.877 | 0.36 | 0.36 | 3566 | 3566 |
| plating | non noble metal | nickel | 7440-02-0 | 1.656 | 0.08 | 0.08 | 750 | 750 |
| solder | non noble metal | antimony | 7440-36-0 | 0.141 | 0.01 | | 64 | |
| | noble metal | silver | 7440-22-4 | 0.353 | 0.02 | | 160 | |
| | non noble metal | tin | 7440-31-5 | 0.917 | 0.04 | 0.07 | 415 | 639 |
| 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 | 6.56 | 6.57 | 65587 | 65673 |
| *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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