



Material Content Data Sheet



Halogen-Free

| | | | |
|---------------------------|---------------|----------------|--------------|
| Sales Product Name | IKW40T120 | Issued | 04. May 2021 |
| MA# | MA001179718 | | |
| Package | PG-TO247-3-44 | Weight* | 6060.44 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 | 8.163 | 0.13 | 0.13 | 1347 | 1347 |
| chip_2 | inorganic material | silicon | 7440-21-3 | 13.024 | 0.21 | 0.21 | 2149 | 2149 |
| leadframe | inorganic material | phosphorus | 7723-14-0 | 0.159 | | | 26 | |
| | non noble metal | iron | 7439-89-6 | 0.530 | 0.01 | | 87 | |
| | non noble metal | copper | 7440-50-8 | 529.068 | 8.73 | 8.74 | 87299 | 87412 |
| wire | non noble metal | aluminium | 7429-90-5 | 18.618 | 0.31 | 0.31 | 3072 | 3072 |
| encapsulation | organic material | carbon black | 1333-86-4 | 19.772 | 0.33 | | 3263 | |
| | plastics | epoxy resin | - | 375.674 | 6.20 | | 61988 | |
| | inorganic material | silicondioxide | 60676-86-0 | 1,581.784 | 26.10 | 32.63 | 261002 | 326253 |
| leadfinish | non noble metal | tin | 7440-31-5 | 31.874 | 0.53 | 0.53 | 5259 | 5259 |
| plating | non noble metal | nickel | 7440-02-0 | 29.065 | 0.48 | 0.48 | 4796 | 4796 |
| solder | non noble metal | antimony | 7440-36-0 | 1.023 | 0.02 | | 169 | |
| | noble metal | silver | 7440-22-4 | 2.557 | 0.04 | | 422 | |
| | non noble metal | tin | 7440-31-5 | 6.649 | 0.11 | 0.17 | 1097 | 1688 |
| heatspreader | inorganic material | phosphorus | 7723-14-0 | 1.033 | 0.02 | | 170 | |
| | non noble metal | iron | 7439-89-6 | 3.442 | 0.06 | | 568 | |
| | non noble metal | copper | 7440-50-8 | 3,438.006 | 56.72 | 56.80 | 567286 | 568024 |
| *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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