



Material Content Data Sheet



Halogen-Free

Sales Product Name IPZ60R060C7

Issued

14. February 2022

MA# MA005621070

Package PG-TO247-4-1

Weight*

6167.36 mg

| Construction Element | Material Group | Substances | CAS# if applicable | Weight [mg] | Average Mass [%] | Sum [%] | Average Mass [ppm] | Sum [ppm] |
|----------------------|--------------------|----------------|--------------------|-------------|------------------|---------|--------------------|-----------|
| chip | inorganic material | silicon | 7440-21-3 | 10.303 | 0.17 | 0.17 | 1671 | 1671 |
| leadframe | inorganic material | phosphorus | 7723-14-0 | 0.867 | 0.01 | | 141 | |
| | non noble metal | iron | 7439-89-6 | 2.890 | 0.05 | | 469 | |
| | non noble metal | copper | 7440-50-8 | 2,885.760 | 46.78 | 46.84 | 467906 | 468516 |
| wire | non noble metal | aluminium | 7429-90-5 | 7.800 | 0.13 | 0.13 | 1265 | 1265 |
| encapsulation | organic material | carbon black | 1333-86-4 | 20.055 | 0.33 | | 3252 | |
| | plastics | epoxy resin | - | 381.037 | 6.18 | | 61783 | |
| | inorganic material | silicondioxide | 60676-86-0 | 1,604.365 | 26.01 | 32.52 | 260138 | 325173 |
| leadfinish | non noble metal | tin | 7440-31-5 | 23.087 | 0.37 | 0.37 | 3743 | 3743 |
| plating | non noble metal | nickel | 7440-02-0 | 1.945 | 0.03 | 0.03 | 315 | 315 |
| solder | non noble metal | antimony | 7440-36-0 | 0.474 | 0.01 | | 77 | |
| | noble metal | silver | 7440-22-4 | 1.186 | 0.02 | | 192 | |
| | non noble metal | tin | 7440-31-5 | 3.083 | 0.05 | 0.08 | 500 | 769 |
| heatspreader | inorganic material | phosphorus | 7723-14-0 | 0.367 | 0.01 | | 60 | |
| | non noble metal | iron | 7439-89-6 | 1.225 | 0.02 | | 199 | |
| | non noble metal | copper | 7440-50-8 | 1,222.919 | 19.83 | 19.86 | 198289 | 198548 |
| *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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