



Material Content Data Sheet



Halogen-Free

Sales Product Name IPW60R045P7

Issued

12. April 2021

MA# MA005400173

Package PG-TO247-3-41

Weight*

6053.53 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 | 13.676 | 0.23 | 0.23 | 2259 | 2259 |
| 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 | 87398 | 87512 |
| wire | non noble metal | aluminium | 7429-90-5 | 10.610 | 0.18 | 0.18 | 1753 | 1753 |
| encapsulation | organic material | carbon black | 1333-86-4 | 19.902 | 0.33 | | 3288 | |
| | plastics | epoxy resin | - | 378.135 | 6.25 | | 62465 | |
| | inorganic material | silicondioxide | 60676-86-0 | 1,592.148 | 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 | 0.588 | 0.01 | | 97 | |
| | noble metal | silver | 7440-22-4 | 1.469 | 0.02 | | 243 | |
| | non noble metal | tin | 7440-31-5 | 3.820 | 0.06 | 0.09 | 631 | 971 |
| 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 | 567935 | 568675 |
| *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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