



Material Content Data Sheet



Halogen-Free

Sales Product Name IPW60R160C6

Issued

17. February 2022

MA# MA005619959

Package PG-TO247-3-44

Weight*

6050.26 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 | 9.747 | 0.16 | 0.16 | 1611 | 1611 |
| 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 | 87445 | 87559 |
| wire | non noble metal | aluminium | 7429-90-5 | 5.183 | 0.09 | 0.09 | 857 | 857 |
| encapsulation | organic material | carbon black | 1333-86-4 | 19.976 | 0.33 | | 3302 | |
| | plastics | epoxy resin | - | 379.546 | 6.27 | | 62732 | |
| | inorganic material | silicondioxide | 60676-86-0 | 1,598.087 | 26.41 | 33.01 | 264135 | 330169 |
| leadfinish | non noble metal | tin | 7440-31-5 | 31.874 | 0.53 | 0.53 | 5268 | 5268 |
| plating | non noble metal | nickel | 7440-02-0 | 29.065 | 0.48 | 0.48 | 4804 | 4804 |
| solder | non noble metal | antimony | 7440-36-0 | 0.455 | 0.01 | | 75 | |
| | noble metal | silver | 7440-22-4 | 1.136 | 0.02 | | 188 | |
| | non noble metal | tin | 7440-31-5 | 2.955 | 0.05 | 0.08 | 488 | 751 |
| 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 | 56.82 | 56.90 | 568241 | 568981 |
| *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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