



Material Content Data Sheet



Halogen-Free

Sales Product Name IPW60R041C6

Issued

07. April 2021

MA# MA001703072

Package PG-TO247-3-41

Weight*

6063.66 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 | 35.395 | 0.58 | 0.58 | 5837 | 5837 |
| 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 | 87253 | 87366 |
| wire | non noble metal | aluminium | 7429-90-5 | 15.414 | 0.25 | 0.25 | 2542 | 2542 |
| encapsulation | organic material | carbon black | 1333-86-4 | 19.672 | 0.32 | | 3244 | |
| | plastics | epoxy resin | - | 373.771 | 6.16 | | 61641 | |
| | inorganic material | silicondioxide | 60676-86-0 | 1,573.774 | 25.95 | 32.43 | 259543 | 324428 |
| leadfinish | non noble metal | tin | 7440-31-5 | 31.874 | 0.53 | 0.53 | 5257 | 5257 |
| plating | non noble metal | nickel | 7440-02-0 | 29.065 | 0.48 | 0.48 | 4793 | 4793 |
| solder | non noble metal | antimony | 7440-36-0 | 1.245 | 0.02 | | 205 | |
| | noble metal | silver | 7440-22-4 | 3.114 | 0.05 | | 513 | |
| | non noble metal | tin | 7440-31-5 | 8.095 | 0.13 | 0.20 | 1335 | 2053 |
| 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 | 56.71 | 56.79 | 566986 | 567724 |
| *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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