



## Material Content Data Sheet



Halogen-Free

**Sales Product Name** IPW60R099C6

**Issued**

15. April 2021

**MA#** MA005338238

**Package** PG-TO247-3-44

**Weight\***

6052.75 mg

| Construction Element | Material Group     | Substances     | CAS#<br>if applicable | Weight [mg] | Average<br>Mass [%] | Sum [%] | Average<br>Mass<br>[ppm] | Sum [ppm] |
|----------------------|--------------------|----------------|-----------------------|-------------|---------------------|---------|--------------------------|-----------|
| chip                 | inorganic material | silicon        | 7440-21-3             | 15.501      | 0.26                | 0.26    | 2561                     | 2561      |
| 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    | 87409                    | 87523     |
| wire                 | non noble metal    | aluminium      | 7429-90-5             | 5.253       | 0.09                | 0.09    | 868                      | 868       |
| encapsulation        | organic material   | carbon black   | 1333-86-4             | 19.923      | 0.33                |         | 3292                     |           |
|                      | plastics           | epoxy resin    | -                     | 378.545     | 6.25                |         | 62541                    |           |
|                      | inorganic material | silicondioxide | 60676-86-0            | 1,593.874   | 26.33               | 32.91   | 263330                   | 329163    |
| leadfinish           | non noble metal    | tin            | 7440-31-5             | 31.874      | 0.53                | 0.53    | 5266                     | 5266      |
| plating              | non noble metal    | nickel         | 7440-02-0             | 29.065      | 0.48                | 0.48    | 4802                     | 4802      |
| solder               | non noble metal    | antimony       | 7440-36-0             | 0.648       | 0.01                |         | 107                      |           |
|                      | noble metal        | silver         | 7440-22-4             | 1.619       | 0.03                |         | 268                      |           |
|                      | non noble metal    | tin            | 7440-31-5             | 4.210       | 0.07                | 0.11    | 696                      | 1071      |
| 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   | 56.79               | 56.87   | 568006                   | 568746    |
| *deviation           | < 10%              | Sum in total:  |                       |             |                     | 100.00  |                          | 1000000   |

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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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