



## Material Content Data Sheet



Halogen-Free

**Sales Product Name** IPW60R170CFD7

**Issued**

05. April 2021

**MA#** MA001664118

**Package** PG-TO247-3-41

**Weight\***

6047.81 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             | 4.363       | 0.07                | 0.07    | 721                      | 721       |
| 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     | 8.75                | 8.76    | 87481                    | 87595     |
| wire                 | non noble metal    | aluminium      | 7429-90-5             | 5.158       | 0.09                | 0.09    | 853                      | 853       |
| encapsulation        | organic material   | carbon black   | 1333-86-4             | 20.026      | 0.33                |         | 3311                     |           |
|                      | plastics           | epoxy resin    | -                     | 380.485     | 6.29                |         | 62913                    |           |
|                      | inorganic material | silicondioxide | 60676-86-0            | 1,602.044   | 26.49               | 33.11   | 264897                   | 331121    |
| leadfinish           | non noble metal    | tin            | 7440-31-5             | 31.874      | 0.53                | 0.53    | 5270                     | 5270      |
| plating              | non noble metal    | nickel         | 7440-02-0             | 29.065      | 0.48                | 0.48    | 4806                     | 4806      |
| solder               | non noble metal    | antimony       | 7440-36-0             | 0.255       |                     |         | 42                       |           |
|                      | noble metal        | silver         | 7440-22-4             | 0.638       | 0.01                |         | 105                      |           |
|                      | non noble metal    | tin            | 7440-31-5             | 1.659       | 0.03                | 0.04    | 274                      | 421       |
| 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   | 56.84               | 56.92   | 568473                   | 569213    |
| *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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