



## Material Content Data Sheet



Halogen-Free

**Sales Product Name** IPW60R280P6

**Issued**

17. February 2022

**MA#** MA005620464

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

**Weight\***

6048.50 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             | 5.826       | 0.10                | 0.10    | 963                      | 963       |
| 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    | 87471                    | 87585     |
| wire                 | non noble metal    | aluminium      | 7429-90-5             | 5.211       | 0.09                | 0.09    | 861                      | 861       |
| encapsulation        | organic material   | carbon black   | 1333-86-4             | 20.012      | 0.33                |         | 3309                     |           |
|                      | plastics           | epoxy resin    | -                     | 380.223     | 6.29                |         | 62862                    |           |
|                      | inorganic material | silicondioxide | 60676-86-0            | 1,600.938   | 26.47               | 33.09   | 264683                   | 330854    |
| 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    | 4805                     | 4805      |
| solder               | non noble metal    | antimony       | 7440-36-0             | 0.312       | 0.01                |         | 52                       |           |
|                      | noble metal        | silver         | 7440-22-4             | 0.779       | 0.01                |         | 129                      |           |
|                      | non noble metal    | tin            | 7440-31-5             | 2.025       | 0.03                | 0.05    | 335                      | 516       |
| 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   | 568406                   | 569146    |
| *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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