



## Material Content Data Sheet



Halogen-Free

**Sales Product Name** IPW90R500C3

**Issued**

13. April 2021

**MA#** MA003383958

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

**Weight\***

6050.27 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          | 9.945       | 0.16             | 0.16    | 1644               | 1644      |
| 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          | 5.038       | 0.08             | 0.08    | 833                | 833       |
| encapsulation        | organic material   | carbon black   | 1333-86-4          | 19.975      | 0.33             |         | 3302               |           |
|                      | plastics           | epoxy resin    | -                  | 379.525     | 6.27             |         | 62729              |           |
|                      | inorganic material | silicondioxide | 60676-86-0         | 1,598.000   | 26.41            | 33.01   | 264120             | 330151    |
| 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          | 0.461       | 0.01             |         | 76                 |           |
|                      | noble metal        | silver         | 7440-22-4          | 1.152       | 0.02             |         | 190                |           |
|                      | non noble metal    | tin            | 7440-31-5          | 2.994       | 0.05             | 0.08    | 495                | 761       |
| 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   | 56.83            | 56.91   | 568240             | 568980    |
| *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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