



## Material Content Data Sheet



Halogen-Free

**Sales Product Name** IPW60R099P7

**Issued**

14. February 2022

**MA#** MA005621073

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

**Weight\***

6049.12 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          | 7.092       | 0.12             | 0.12    | 1172               | 1172      |
| 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    | 87462              | 87576     |
| wire                 | non noble metal    | aluminium      | 7429-90-5          | 5.346       | 0.09             | 0.09    | 884                | 884       |
| encapsulation        | organic material   | carbon black   | 1333-86-4          | 19.999      | 0.33             |         | 3306               |           |
|                      | plastics           | epoxy resin    | -                  | 379.984     | 6.28             |         | 62817              |           |
|                      | inorganic material | silicondioxide | 60676-86-0         | 1,599.934   | 26.45            | 33.06   | 264491             | 330614    |
| leadfinish           | non noble metal    | tin            | 7440-31-5          | 31.874      | 0.53             | 0.53    | 5269               | 5269      |
| plating              | non noble metal    | nickel         | 7440-02-0          | 29.065      | 0.48             | 0.48    | 4805               | 4805      |
| solder               | non noble metal    | antimony       | 7440-36-0          | 0.359       | 0.01             |         | 59                 |           |
|                      | noble metal        | silver         | 7440-22-4          | 0.897       | 0.01             |         | 148                |           |
|                      | non noble metal    | tin            | 7440-31-5          | 2.331       | 0.04             | 0.06    | 385                | 592       |
| 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   | 568348             | 569088    |
| *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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