



## Material Content Data Sheet



Halogen-Free

**Sales Product Name** IPP80N06S2-09

**Issued**

17. February 2022

**MA#** MA005699103

**Package** PG-TO220-3-1

**Weight\***

2038.15 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          | 5.888       | 0.29             | 0.29    | 2889               | 2889      |
| leadframe            | inorganic material | phosphorus      | 7723-14-0          | 0.245       | 0.01             |         | 120                |           |
|                      | non noble metal    | iron            | 7439-89-6          | 0.816       | 0.04             |         | 401                |           |
|                      | non noble metal    | copper          | 7440-50-8          | 815.335     | 40.01            | 40.06   | 400036             | 400557    |
| wire                 | non noble metal    | aluminium       | 7429-90-5          | 7.149       | 0.35             | 0.35    | 3507               | 3507      |
| encapsulation        | inorganic material | zinc oxide      | 1314-13-2          | 5.925       | 0.29             |         | 2907               |           |
|                      | miscellaneous      | miscellaneous   | -                  | 23.700      | 1.16             |         | 11628              |           |
|                      | plastics           | epoxy resin     | -                  | 88.874      | 4.36             |         | 43605              |           |
|                      | inorganic material | silicon dioxide | 60676-86-0         | 473.994     | 23.26            | 29.07   | 232561             | 290701    |
| lead finish          | non noble metal    | tin             | 7440-31-5          | 21.462      | 1.05             | 1.05    | 10530              | 10530     |
| plating              | inorganic material | phosphorus      | 7723-14-0          | 0.001       |                  |         | 1                  |           |
|                      | non noble metal    | nickel          | 7440-02-0          | 0.244       | 0.01             | 0.01    | 120                | 121       |
| solder               | non noble metal    | tin             | 7440-31-5          | 0.086       |                  |         | 42                 |           |
|                      | noble metal        | silver          | 7440-22-4          | 0.107       | 0.01             |         | 53                 |           |
|                      | non noble metal    | lead            | 7439-92-1          | 4.089       | 0.20             | 0.21    | 2006               | 2101      |
| heatspreader         | inorganic material | phosphorus      | 7723-14-0          | 0.177       | 0.01             |         | 87                 |           |
|                      | non noble metal    | iron            | 7439-89-6          | 0.590       | 0.03             |         | 290                |           |
|                      | non noble metal    | copper          | 7440-50-8          | 589.466     | 28.92            | 28.96   | 289217             | 289594    |
| *deviation           | < 10%              | Sum in total:   |                    |             |                  | 100.00  |                    | 1000000   |

### Important Remarks:

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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 contains Pb according RoHS exemption 7a, Lead in high melting temperature type solders.

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|----------|--------------------------|
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