



## Material Content Data Sheet



Halogen-Free

|                           |                |                |              |
|---------------------------|----------------|----------------|--------------|
| <b>Sales Product Name</b> | IPP90R1K2C3    | <b>Issued</b>  | 16. May 2021 |
| <b>MA#</b>                | MA005406287    |                |              |
| <b>Package</b>            | PG-TO220-3-123 | <b>Weight*</b> | 2035.71 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          | 4.798       | 0.24             | 0.24    | 2357               | 2357      |
| 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     | 40.04            | 40.09   | 400516             | 401037    |
| wire                 | non noble metal    | aluminium                 | 7429-90-5          | 0.725       | 0.04             | 0.04    | 356                | 356       |
| encapsulation        | organic material   | carbon black              | 1333-86-4          | 2.988       | 0.15             |         | 1468               |           |
|                      | miscellaneous      | miscellaneous             | -                  | 2.988       | 0.15             |         | 1468               |           |
|                      | organic material   | phenol formaldehyde resin | 9003-35-4          | 35.856      | 1.76             |         | 17614              |           |
|                      | inorganic material | silicondioxide            | 14808-60-7         | 47.809      | 2.35             |         | 23485              |           |
|                      | non noble metal    | metal hydroxide           | -                  | 47.809      | 2.35             |         | 23485              |           |
|                      | plastics           | epoxy resin               | 29690-82-2         | 71.713      | 3.52             |         | 35227              |           |
|                      | inorganic material | silicondioxide            | 60676-86-0         | 388.444     | 19.08            | 29.36   | 190816             | 293563    |
| leadfinish           | non noble metal    | tin                       | 7440-31-5          | 21.462      | 1.05             | 1.05    | 10543              | 10543     |
| plating              | non noble metal    | nickel                    | 7440-02-0          | 1.764       | 0.09             | 0.09    | 866                | 866       |
| solder               | non noble metal    | antimony                  | 7440-36-0          | 0.272       | 0.01             |         | 134                |           |
|                      | noble metal        | silver                    | 7440-22-4          | 0.680       | 0.03             |         | 334                |           |
|                      | non noble metal    | tin                       | 7440-31-5          | 1.769       | 0.09             | 0.13    | 869                | 1337      |
| 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     | 28.96            | 29.00   | 289564             | 289941    |
| *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 does not use any exemption.

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