



## Material Content Data Sheet



Halogen-Free

**Sales Product Name** IPD60R280P7S E8228

**Issued**

12. April 2021

**MA#** MA002459938

**Package** PG-TO252-3-344

**Weight\***

323.49 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             | 3.030       | 0.94                | 0.94    | 9366                     | 9366      |
| leadframe            | inorganic material | phosphorus     | 7723-14-0             | 0.043       | 0.01                |         | 134                      |           |
|                      | non noble metal    | iron           | 7439-89-6             | 0.144       | 0.04                |         | 445                      |           |
|                      | non noble metal    | copper         | 7440-50-8             | 143.904     | 44.49               | 44.54   | 444849                   | 445428    |
| wire                 | non noble metal    | aluminium      | 7429-90-5             | 2.049       | 0.63                | 0.63    | 6334                     | 6334      |
| encapsulation        | organic material   | carbon black   | 1333-86-4             | 0.673       | 0.21                |         | 2081                     |           |
|                      | plastics           | epoxy resin    | -                     | 18.174      | 5.62                |         | 56180                    |           |
|                      | inorganic material | silicondioxide | 60676-86-0            | 115.773     | 35.79               | 41.62   | 357890                   | 416151    |
| leadfinish           | non noble metal    | tin            | 7440-31-5             | 3.834       | 1.19                | 1.19    | 11851                    | 11851     |
| solder               | non noble metal    | tin            | 7440-31-5             | 0.057       | 0.02                |         | 175                      |           |
|                      | noble metal        | silver         | 7440-22-4             | 0.071       | 0.02                |         | 219                      |           |
|                      | non noble metal    | lead           | 7439-92-1             | 2.700       | 0.83                | 0.87    | 8347                     | 8741      |
| heatspreader         | inorganic material | phosphorus     | 7723-14-0             | 0.010       |                     |         | 31                       |           |
|                      | non noble metal    | iron           | 7439-89-6             | 0.033       | 0.01                |         | 102                      |           |
|                      | non noble metal    | copper         | 7440-50-8             | 32.995      | 10.20               | 10.21   | 101996                   | 102129    |
| *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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