

# Material Content Data Sheet

RoHS | Halogen-Free

| | | | |
|---|---|---|---|
| **Sales Product Name** | IPI60R380C6 | **Issued** | 16. May 2021 |
| **MA#** | MA005403003 | | |
| **Package** | PG-TO262-3-22 | **Weight*** | 1572.92 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 | 4.522 | 0.29 | 0.29 | 2875 | 2875 |
| leadframe | inorganic material | phosphorus | 7723-14-0 | 0.255 | 0.02 | | 162 | |
| | non noble metal | iron | 7439-89-6 | 0.851 | 0.05 | | 541 | |
| | non noble metal | copper | 7440-50-8 | 849.682 | 54.01 | 54.08 | 540195 | 540898 |
| wire | non noble metal | aluminium | 7429-90-5 | 0.703 | 0.04 | 0.04 | 447 | 447 |
| encapsulation | organic material | carbon black | 1333-86-4 | 2.956 | 0.19 | | 1879 | |
| | miscellaneous | miscellaneous | - | 2.956 | 0.19 | | 1879 | |
| | organic material | phenol formaldehyde resin | 9003-35-4 | 35.466 | 2.25 | | 22548 | |
| | inorganic material | silicondioxide | 14808-60-7 | 47.288 | 3.01 | | 30064 | |
| | non noble metal | metal hydroxide | - | 47.288 | 3.01 | | 30064 | |
| | plastics | epoxy resin | 29690-82-2 | 70.932 | 4.51 | | 45096 | |
| | inorganic material | silicondioxide | 60676-86-0 | 384.216 | 24.43 | 37.59 | 244269 | 375799 |
| leadfinish | non noble metal | tin | 7440-31-5 | 15.198 | 0.97 | 0.97 | 9662 | 9662 |
| plating | non noble metal | nickel | 7440-02-0 | 1.651 | 0.10 | 0.10 | 1050 | 1050 |
| solder | non noble metal | antimony | 7440-36-0 | 0.261 | 0.02 | | 166 | |
| | noble metal | silver | 7440-22-4 | 0.652 | 0.04 | | 414 | |
| | non noble metal | tin | 7440-31-5 | 1.694 | 0.11 | 0.17 | 1077 | 1657 |
| heatspreader | inorganic material | phosphorus | 7723-14-0 | 0.032 | | | 20 | |
| | non noble metal | iron | 7439-89-6 | 0.106 | 0.01 | | 68 | |
| | non noble metal | copper | 7440-50-8 | 106.210 | 6.75 | 6.76 | 67524 | 67612 |
| *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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