# Material Content Data Sheet

RoHS | Halogen-Free

| | | | |
|---|---|---|---|
| **Sales Product Name** | IDH04S60C | **Issued** | 29. August 2013 |
| **MA#** | MA000703442 | | |
| **Package** | PG-TO220-2-1 | **Weight*** | 1968.42 mg |

| Construction Element | Material Group | Substances | CAS# if applicable | Weight [mg] | Average Mass [%] | Sum [%] | Average Mass [ppm] | Sum [ppm] |
|---|---|---|---|---|---|---|---|---|
| chip | inorganic material | siliconcarbide | 409-21-2 | 1.300 | 0.07 | 0.07 | 660 | 660 |
| leadframe | non noble metal | iron | 7439-89-6 | 0.753 | 0.04 | | 382 | |
| | inorganic material | phosphorus | 7723-14-0 | 0.226 | 0.01 | | 115 | |
| | non noble metal | copper | 7440-50-8 | 751.797 | 38.19 | 38.24 | 381929 | 382426 |
| wire | non noble metal | aluminium | 7429-90-5 | 0.653 | 0.03 | 0.03 | 332 | 332 |
| encapsulation | organic material | carbon black | 1333-86-4 | 9.094 | 0.46 | | 4620 | |
| | plastics | epoxy resin | - | 100.036 | 5.08 | | 50821 | |
| | inorganic material | silicondioxide | 60676-86-0 | 497.151 | 25.26 | 30.80 | 252564 | 308005 |
| leadfinish | non noble metal | tin | 7440-31-5 | 14.487 | 0.74 | 0.74 | 7360 | 7360 |
| plating | non noble metal | nickel | 7440-02-0 | 0.198 | 0.01 | | 101 | |
| | inorganic material | phosphorus | 7723-14-0 | 0.000 | 0.00 | 0.01 | 0 | 101 |
| solder | noble metal | silver | 7440-22-4 | 0.062 | 0.00 | | 32 | |
| | non noble metal | tin | 7440-31-5 | 0.050 | 0.00 | | 25 | |
| | non noble metal | lead | 7439-92-1 | 2.376 | 0.12 | 0.12 | 1207 | 1264 |
| heatspreader | inorganic material | phosphorus | 7723-14-0 | 0.177 | 0.01 | | 90 | |
| | non noble metal | iron | 7439-89-6 | 0.590 | 0.03 | | 300 | |
| | non noble metal | copper | 7440-50-8 | 589.466 | 29.95 | 29.99 | 299462 | 299852 |
| *deviation | < 10% | | | | Sum in total: | 100,00 | | 1000000 |

**Important Remarks:**

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