

# Material Content Data Sheet

RoHS | Halogen-Free

| | | | |
|---|---|---|---|
| **Sales Product Name** | 2ED020I12FA | **Issued** | 3. July 2019 |
| **MA#** | MA005349423 | | |
| **Package** | PG-DSO-36-60 | **Weight*** | 614.36 mg |

| Construction Element | Material Group | Substances | CAS# if applicable | Weight [mg] | Average Mass [%] | Sum [%] | Average Mass [ppm] | Sum [ppm] |
|---|---|---|---|---|---|---|---|---|
| chip_1 | inorganic material | silicon | 7440-21-3 | 1.477 | 0.24 | 0.24 | 2404 | 2404 |
| chip_2 | inorganic material | silicon | 7440-21-3 | 1.477 | 0.24 | 0.24 | 2404 | 2404 |
| chip_3 | inorganic material | silicon | 7440-21-3 | 3.071 | 0.50 | 0.50 | 4999 | 4999 |
| chip_4 | inorganic material | silicon | 7440-21-3 | 3.071 | 0.50 | 0.50 | 4999 | 4999 |
| leadframe | inorganic material | phosphorus | 7723-14-0 | 0.052 | 0.01 | | 84 | |
| | non noble metal | zinc | 7440-66-6 | 0.207 | 0.03 | | 337 | |
| | non noble metal | iron | 7439-89-6 | 4.146 | 0.67 | | 6749 | |
| | non noble metal | copper | 7440-50-8 | 168.346 | 27.40 | 28.11 | 274018 | 281188 |
| wire | noble metal | gold | 7440-57-5 | 1.250 | 0.20 | 0.20 | 2035 | 2035 |
| encapsulation | organic material | carbon black | 1333-86-4 | 1.261 | 0.21 | | 2053 | |
| | plastics | epoxy resin | - | 49.182 | 8.01 | | 80053 | |
| | inorganic material | silicondioxide | 60676-86-0 | 369.914 | 60.22 | 68.44 | 602110 | 684216 |
| leadfinish | noble metal | palladium | 7440-05-3 | 0.001 | 0.00 | | 2 | |
| | noble metal | silver | 7440-22-4 | 0.001 | 0.00 | | 2 | |
| | noble metal | gold | 7440-57-5 | 0.002 | 0.00 | | 3 | |
| | non noble metal | nickel | 7440-02-0 | 1.865 | 0.30 | 0.30 | 3035 | 3042 |
| plating | noble metal | silver | 7440-22-4 | 0.003 | 0.00 | | 4 | |
| | noble metal | palladium | 7440-05-3 | 0.003 | 0.00 | | 5 | |
| | noble metal | gold | 7440-57-5 | 0.005 | 0.00 | | 8 | |
| | non noble metal | nickel | 7440-02-0 | 4.768 | 0.78 | 0.78 | 7761 | 7778 |
| glue | plastics | epoxy resin | - | 1.065 | 0.17 | | 1734 | |
| | noble metal | silver | 7440-22-4 | 3.195 | 0.52 | 0.69 | 5201 | 6935 |
| *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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