



Material Content Data Sheet



Halogen-Free

| | | | |
|---------------------------|--------------|----------------|---------------|
| Sales Product Name | MA5332M | Issued | 03. June 2021 |
| MA# | MA005348810 | | |
| Package | PG-IQFN-42-1 | Weight* | 139.07 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 | 5.101 | 3.67 | 3.67 | 36681 | 36681 |
| chip_2 | inorganic material | silicon | 7440-21-3 | 1.223 | 0.88 | 0.88 | 8794 | 8794 |
| chip_3 | inorganic material | silicon | 7440-21-3 | 1.223 | 0.88 | 0.88 | 8794 | 8794 |
| chip_4 | inorganic material | silicon | 7440-21-3 | 1.223 | 0.88 | 0.88 | 8794 | 8794 |
| chip_5 | inorganic material | silicon | 7440-21-3 | 1.223 | 0.88 | 0.88 | 8794 | 8794 |
| leadframe | inorganic material | phosphorus | 7723-14-0 | 0.018 | 0.01 | | 129 | |
| | non noble metal | zinc | 7440-66-6 | 0.072 | 0.05 | | 515 | |
| | non noble metal | iron | 7439-89-6 | 1.434 | 1.03 | | 10309 | |
| | non noble metal | copper | 7440-50-8 | 58.213 | 41.85 | 42.94 | 418584 | 429537 |
| wire | noble metal | gold | 7440-57-5 | 0.504 | 0.36 | | 3624 | |
| | non noble metal | copper | 7440-50-8 | 0.504 | 0.36 | 0.72 | 3625 | 7249 |
| encapsulation | organic material | carbon black | 1333-86-4 | 0.189 | 0.14 | | 1361 | |
| | plastics | epoxy resin | - | 6.121 | 4.40 | | 44014 | |
| | inorganic material | silicondioxide | 60676-86-0 | 56.794 | 40.84 | 45.38 | 408380 | 453755 |
| leadfinish | noble metal | palladium | 7440-05-3 | 0.001 | | | 4 | |
| | noble metal | silver | 7440-22-4 | 0.001 | | | 4 | |
| | noble metal | gold | 7440-57-5 | 0.001 | | | 7 | |
| | non noble metal | nickel | 7440-02-0 | 0.985 | 0.71 | 0.71 | 7079 | 7094 |
| plating | noble metal | silver | 7440-22-4 | 0.008 | 0.01 | | 59 | |
| | noble metal | palladium | 7440-05-3 | 0.009 | 0.01 | | 67 | |
| | noble metal | gold | 7440-57-5 | 0.015 | 0.01 | | 108 | |
| | non noble metal | nickel | 7440-02-0 | 0.274 | 0.20 | 0.23 | 1968 | 2202 |
| glue | organic material | Isobornyl methacrylate | 7534-94-3 | 0.394 | 0.28 | | 2831 | |
| | noble metal | silver | 7440-22-4 | 3.543 | 2.55 | 2.83 | 25475 | 28306 |
| *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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