



## Material Content Data Sheet



Halogen-Free

|                           |                      |                |                |
|---------------------------|----------------------|----------------|----------------|
| <b>Sales Product Name</b> | XMC4800-F144F1536 AA | <b>Issued</b>  | 01. April 2021 |
| <b>MA#</b>                | MA001500060          |                |                |
| <b>Package</b>            | PG-LQFP-144-24       | <b>Weight*</b> | 1384.33 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             | 40.070      | 2.89                | 2.89    | 28946                    | 28946     |
| leadframe            | non noble metal    | magnesium      | 7439-95-4             | 0.450       | 0.03                |         | 325                      |           |
|                      | inorganic material | silicon        | 7440-21-3             | 1.949       | 0.14                |         | 1408                     |           |
|                      | non noble metal    | nickel         | 7440-02-0             | 8.994       | 0.65                |         | 6497                     |           |
|                      | non noble metal    | copper         | 7440-50-8             | 288.415     | 20.83               | 21.65   | 208342                   | 216572    |
| wires                | noble metal        | gold           | 7440-57-5             | 0.002       |                     |         | 1                        |           |
|                      | noble metal        | palladium      | 7440-05-3             | 0.044       |                     |         | 32                       |           |
|                      | non noble metal    | copper         | 7440-50-8             | 1.975       | 0.14                | 0.14    | 1427                     | 1460      |
| encapsulation        | organic material   | carbon black   | 1333-86-4             | 3.061       | 0.22                |         | 2211                     |           |
|                      | plastics           | epoxy resin    | -                     | 119.371     | 8.62                |         | 86230                    |           |
|                      | inorganic material | silicondioxide | 60676-86-0            | 897.835     | 64.88               | 73.72   | 648567                   | 737008    |
| leadfinish           | non noble metal    | tin            | 7440-31-5             | 12.315      | 0.89                | 0.89    | 8896                     | 8896      |
| plating              | noble metal        | silver         | 7440-22-4             | 1.526       | 0.11                | 0.11    | 1103                     | 1103      |
| glue                 | plastics           | epoxy resin    | -                     | 1.832       | 0.13                |         | 1323                     |           |
|                      | noble metal        | silver         | 7440-22-4             | 6.495       | 0.47                | 0.60    | 4692                     | 6015      |
| *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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| Company  | Infineon Technologies AG |
| Address  | 81726 Neubiberg          |
| Internet | www.infineon.com         |