



## Material Content Data Sheet



Halogen-Free

|                           |              |                |                 |
|---------------------------|--------------|----------------|-----------------|
| <b>Sales Product Name</b> | IR3889MTRPBF | <b>Issued</b>  | 12. August 2021 |
| <b>MA#</b>                | MA005584107  |                |                 |
| <b>Package</b>            | PG-IQFN-36-2 | <b>Weight*</b> | 104.73 mg       |

| Construction Element | Material Group     | Substances     | CAS#<br>if applicable | Weight [mg] | Average<br>Mass [%] | Sum [%] | Average<br>Mass<br>[ppm] | Sum [ppm] |
|----------------------|--------------------|----------------|-----------------------|-------------|---------------------|---------|--------------------------|-----------|
| chip_1               | inorganic material | silicon        | 7440-21-3             | 0.200       | 0.19                | 0.19    | 1905                     | 1905      |
| chip_2               | inorganic material | silicon        | 7440-21-3             | 0.200       | 0.19                | 0.19    | 1905                     | 1905      |
| chip_3               | inorganic material | silicon        | 7440-21-3             | 1.552       | 1.48                | 1.48    | 14816                    | 14816     |
| leadframe            | inorganic material | phosphorus     | 7723-14-0             | 0.012       | 0.01                |         | 111                      |           |
|                      | non noble metal    | zinc           | 7440-66-6             | 0.047       | 0.04                |         | 446                      |           |
|                      | non noble metal    | iron           | 7439-89-6             | 0.933       | 0.89                |         | 8910                     |           |
|                      | non noble metal    | copper         | 7440-50-8             | 37.891      | 36.18               | 37.12   | 361789                   | 371256    |
| wire                 | noble metal        | gold           | 7440-57-5             | 0.381       | 0.36                | 0.36    | 3634                     | 3634      |
| encapsulation        | organic material   | carbon black   | 1333-86-4             | 0.079       | 0.08                |         | 759                      |           |
|                      | plastics           | epoxy resin    | -                     | 4.093       | 3.91                |         | 39079                    |           |
|                      | inorganic material | silicondioxide | 60676-86-0            | 35.564      | 33.96               | 37.95   | 339573                   | 379411    |
| leadfinish           | noble metal        | palladium      | 7440-05-3             | 0.003       |                     |         | 29                       |           |
|                      | noble metal        | gold           | 7440-57-5             | 0.005       |                     |         | 47                       |           |
|                      | non noble metal    | nickel         | 7440-02-0             | 0.091       | 0.09                | 0.09    | 865                      | 941       |
| plating              | noble metal        | silver         | 7440-22-4             | 0.248       | 0.24                | 0.24    | 2372                     | 2372      |
| solder               | noble metal        | silver         | 7440-22-4             | 0.071       | 0.07                |         | 678                      |           |
|                      | non noble metal    | tin            | 7440-31-5             | 0.142       | 0.14                |         | 1355                     |           |
|                      | non noble metal    | lead           | 7439-92-1             | 2.626       | 2.51                | 2.72    | 25070                    | 27103     |
| heat sink clip       | inorganic material | phosphorus     | 7723-14-0             | 0.006       | 0.01                |         | 59                       |           |
|                      | non noble metal    | zinc           | 7440-66-6             | 0.025       | 0.02                |         | 236                      |           |
|                      | non noble metal    | iron           | 7439-89-6             | 0.494       | 0.47                |         | 4720                     |           |
|                      | non noble metal    | copper         | 7440-50-8             | 20.071      | 19.16               | 19.66   | 191642                   | 196657    |
| *deviation           | < 10%              | Sum in total:  |                       |             |                     | 100.00  |                          | 1000000   |

### Important Remarks:

1. Infineon Technologies AG provides full material declaration based on information provided by third parties and has taken and continues to take reasonable steps to provide representative and accurate information.
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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 contains Pb according RoHS exemption 7a, Lead in high melting temperature type solders.

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