



## Material Content Data Sheet



Halogen-Free

|                           |                 |                |               |
|---------------------------|-----------------|----------------|---------------|
| <b>Sales Product Name</b> | BGA 125N6 E6327 | <b>Issued</b>  | 23. June 2021 |
| <b>MA#</b>                | MA005447353     |                |               |
| <b>Package</b>            | PG-TSNP-6-2     | <b>Weight*</b> | 0.92 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             | 0.093       | 10.16               | 10.16   | 101582                   | 101582    |
| bumps                | non noble metal    | copper         | 7440-50-8             | 0.003       | 0.33                | 0.33    | 3303                     | 3303      |
| leadframe            | non noble metal    | zinc           | 7440-66-6             | 0.001       | 0.08                |         | 777                      |           |
|                      | non noble metal    | tin            | 7440-31-5             | 0.001       | 0.10                |         | 971                      |           |
|                      | non noble metal    | chromium       | 7440-47-3             | 0.001       | 0.12                |         | 1166                     |           |
|                      | non noble metal    | copper         | 7440-50-8             | 0.353       | 38.56               | 38.86   | 385635                   | 388549    |
| encapsulation        | organic material   | carbon black   | 1333-86-4             | 0.002       | 0.22                |         | 2240                     |           |
|                      | inorganic material | zink oxide     | 1314-13-2             | 0.004       | 0.45                |         | 4479                     |           |
|                      | miscellaneous      | miscellaneous  | -                     | 0.006       | 0.67                |         | 6720                     |           |
|                      | plastics           | epoxy resin    | -                     | 0.045       | 4.93                |         | 49276                    |           |
|                      | inorganic material | silicondioxide | 60676-86-0            | 0.353       | 38.53               | 44.80   | 385251                   | 447966    |
| leadfinish           | non noble metal    | tin            | 7440-31-5             | 0.037       | 4.05                | 4.05    | 40549                    | 40549     |
| plating              | noble metal        | silver         | 7440-22-4             | 0.015       | 1.62                | 1.62    | 16200                    | 16200     |
| solder               | noble metal        | silver         | 7440-22-4             | 0.000       |                     |         | 33                       |           |
|                      | non noble metal    | tin            | 7440-31-5             | 0.002       | 0.18                | 0.18    | 1765                     | 1798      |
| ubm                  | non noble metal    | tungsten       | 7440-33-7             | 0.000       |                     |         | 7                        |           |
|                      | non noble metal    | titanium       | 7440-32-6             | 0.000       |                     |         | 12                       |           |
|                      | non noble metal    | copper         | 7440-50-8             | 0.000       |                     |         | 34                       | 53        |
| *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         |