



## Material Content Data Sheet



Halogen-Free

|                           |                  |                |                |
|---------------------------|------------------|----------------|----------------|
| <b>Sales Product Name</b> | BGS 14MA11 E6327 | <b>Issued</b>  | 27. April 2022 |
| <b>MA#</b>                | MA005715187      |                |                |
| <b>Package</b>            | PG-ATSLP-11-2    | <b>Weight*</b> | 2.35 mg        |

| Construction Element | Material Group     | Substances     | CAS# if applicable | Weight [mg] | Average Mass [%] | Sum [%] | Average Mass [ppm] | Sum [ppm] |
|----------------------|--------------------|----------------|--------------------|-------------|------------------|---------|--------------------|-----------|
| chip                 | inorganic material | silicon        | 7440-21-3          | 0.163       | 6.94             | 6.94    | 69431              | 69431     |
| bumps                | non noble metal    | copper         | 7440-50-8          | 0.012       | 0.53             | 0.53    | 5320               | 5320      |
| encapsulation        | organic material   | carbon black   | 1333-86-4          | 0.009       | 0.40             |         | 4001               |           |
|                      | plastics           | epoxy resin    | -                  | 0.211       | 9.00             |         | 90034              |           |
|                      | inorganic material | silicondioxide | 60676-86-0         | 1.344       | 57.29            | 66.69   | 572881             | 666916    |
| leadfinish           | noble metal        | gold           | 7440-57-5          | 0.027       | 1.17             |         | 11671              |           |
|                      | non noble metal    | nickel         | 7440-02-0          | 0.031       | 1.33             | 2.50    | 13311              | 24982     |
| substrate            | organic material   | carbon black   | 1333-86-4          | 0.001       | 0.03             |         | 330                |           |
|                      | plastics           | epoxy resin    | -                  | 0.030       | 1.29             |         | 12859              |           |
|                      | non noble metal    | copper         | 7440-50-8          | 0.217       | 9.27             |         | 92659              |           |
|                      | inorganic material | silicondioxide | 60676-86-0         | 0.227       | 9.67             | 20.26   | 96714              | 202562    |
| solder               | noble metal        | silver         | 7440-22-4          | 0.000       |                  |         | 35                 |           |
|                      | non noble metal    | tin            | 7440-31-5          | 0.004       | 0.19             | 0.19    | 1895               | 1930      |
| ubm                  | non noble metal    | tungsten       | 7440-33-7          | 0.000       | 0.01             |         | 134                |           |
|                      | non noble metal    | titanium       | 7440-32-6          | 0.001       | 0.03             |         | 257                |           |
|                      | non noble metal    | copper         | 7440-50-8          | 0.002       | 0.07             | 0.11    | 727                | 1118      |
| solder resists       | inorganic material | silicondioxide | 60676-86-0         | 0.014       | 0.59             |         | 5895               |           |
|                      | inorganic material | bariumsulfate  | 7727-43-7          | 0.014       | 0.60             |         | 5964               |           |
|                      | plastics           | acrylic resin  | -                  | 0.037       | 1.59             | 2.78    | 15882              | 27741     |
| *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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