



Material Content Data Sheet



Halogen-Free

Sales Product Name BGS 18MA12 E6327

Issued

09. September 2021

MA# MA005446300

Package PG-ATSLP-12-10

Weight*

2.79 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 | 0.255 | 9.12 | 9.12 | 91161 | 91161 |
| bumps | non noble metal | copper | 7440-50-8 | 0.016 | 0.57 | 0.57 | 5687 | 5687 |
| encapsulation | organic material | carbon black | 1333-86-4 | 0.009 | 0.32 | | 3200 | |
| | inorganic material | zink oxide | 1314-13-2 | 0.018 | 0.64 | | 6400 | |
| | miscellaneous | miscellaneous | - | 0.027 | 0.96 | | 9599 | |
| | plastics | epoxy resin | - | 0.197 | 7.04 | | 70394 | |
| | inorganic material | silicondioxide | 60676-86-0 | 1.538 | 55.05 | 64.01 | 550354 | 639947 |
| leadfinish | noble metal | gold | 7440-57-5 | 0.041 | 1.47 | | 14747 | |
| | non noble metal | nickel | 7440-02-0 | 0.047 | 1.68 | 3.15 | 16819 | 31566 |
| solder | noble metal | silver | 7440-22-4 | 0.000 | | | 37 | |
| | non noble metal | tin | 7440-31-5 | 0.006 | 0.20 | 0.20 | 2026 | 2063 |
| ubm | non noble metal | tungsten | 7440-33-7 | 0.000 | | | 32 | |
| | non noble metal | titanium | 7440-32-6 | 0.000 | 0.01 | | 61 | |
| | non noble metal | copper | 7440-50-8 | 0.000 | 0.02 | 0.03 | 173 | 266 |
| solder resists | inorganic material | silicondioxide | 60676-86-0 | 0.017 | 0.59 | | 5938 | |
| | inorganic material | bariumsulfate | 7727-43-7 | 0.017 | 0.60 | | 6008 | |
| | plastics | acrylic resin | - | 0.045 | 1.60 | 2.79 | 15999 | 27945 |
| substrate metal | non noble metal | copper | 7440-50-8 | 0.290 | 10.38 | 10.38 | 103837 | 103837 |
| substrate plastic | organic material | carbon black | 1333-86-4 | 0.001 | 0.03 | | 292 | |
| | plastics | epoxy resin | - | 0.032 | 1.14 | | 11411 | |
| | inorganic material | silicondioxide | 60676-86-0 | 0.240 | 8.58 | 9.75 | 85825 | 97528 |
| *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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