



## Material Content Data Sheet



Halogen-Free

|                    |                |         |              |
|--------------------|----------------|---------|--------------|
| Sales Product Name | BSZ15DC02KD H  | Issued  | 04. May 2021 |
| MA#                | MA001193964    |         |              |
| Package            | PG-TSDSON-8-31 | Weight* | 32.60 mg     |

| Construction Element | Material Group     | Substances     | CAS# if applicable | Weight [mg] | Average Mass [%] | Sum [%] | Average Mass [ppm] | Sum [ppm] |
|----------------------|--------------------|----------------|--------------------|-------------|------------------|---------|--------------------|-----------|
| chip_1               | non noble metal    | tin            | 7440-31-5          | 0.004       | 0.01             |         | 135                |           |
|                      | noble metal        | gold           | 7440-57-5          | 0.017       | 0.05             |         | 525                |           |
|                      | inorganic material | silicon        | 7440-21-3          | 0.089       | 0.27             | 0.33    | 2745               | 3405      |
| chip_2               | non noble metal    | tin            | 7440-31-5          | 0.004       | 0.01             |         | 135                |           |
|                      | noble metal        | gold           | 7440-57-5          | 0.017       | 0.05             |         | 525                |           |
|                      | inorganic material | silicon        | 7440-21-3          | 0.194       | 0.59             | 0.65    | 5947               | 6607      |
| leadframe            | inorganic material | phosphorus     | 7723-14-0          | 0.003       | 0.01             |         | 90                 |           |
|                      | non noble metal    | zinc           | 7440-66-6          | 0.012       | 0.04             |         | 361                |           |
|                      | non noble metal    | iron           | 7439-89-6          | 0.235       | 0.72             |         | 7224               |           |
|                      | non noble metal    | copper         | 7440-50-8          | 9.561       | 29.33            | 30.10   | 293317             | 300992    |
| wire                 | non noble metal    | copper         | 7440-50-8          | 0.199       | 0.61             | 0.61    | 6093               | 6093      |
| encapsulation        | organic material   | carbon black   | 1333-86-4          | 0.039       | 0.12             |         | 1192               |           |
|                      | plastics           | epoxy resin    | -                  | 2.001       | 6.14             |         | 61393              |           |
|                      | inorganic material | silicondioxide | 60676-86-0         | 17.389      | 53.36            | 59.62   | 533461             | 596046    |
| leadfinish           | non noble metal    | tin            | 7440-31-5          | 0.375       | 1.15             | 1.15    | 11503              | 11503     |
| plating              | noble metal        | silver         | 7440-22-4          | 0.476       | 1.46             | 1.46    | 14597              | 14597     |
| heatspreader         | inorganic material | phosphorus     | 7723-14-0          | 0.001       |                  |         | 18                 |           |
|                      | non noble metal    | iron           | 7439-89-6          | 0.002       | 0.01             |         | 61                 |           |
|                      | non noble metal    | copper         | 7440-50-8          | 1.978       | 6.07             | 6.08    | 60678              | 60757     |
| *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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