



## Material Content Data Sheet



Halogen-Free

|                           |             |                |              |
|---------------------------|-------------|----------------|--------------|
| <b>Sales Product Name</b> | ICE5QSBG    | <b>Issued</b>  | 15. May 2021 |
| <b>MA#</b>                | MA005337908 |                |              |
| <b>Package</b>            | PG-DSO-8-47 | <b>Weight*</b> | 80.25 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             | 0.663       | 0.83                | 0.83    | 8257                     | 8257      |
| leadframe            | inorganic material | phosphorus     | 7723-14-0             | 0.008       | 0.01                |         | 105                      |           |
|                      | non noble metal    | zinc           | 7440-66-6             | 0.034       | 0.04                |         | 419                      |           |
|                      | non noble metal    | iron           | 7439-89-6             | 0.673       | 0.84                |         | 8387                     |           |
|                      | non noble metal    | copper         | 7440-50-8             | 27.330      | 34.05               | 34.94   | 340548                   | 349459    |
| wires                | noble metal        | palladium      | 7440-05-3             | 0.001       |                     |         | 7                        |           |
|                      | non noble metal    | copper         | 7440-50-8             | 0.056       | 0.07                | 0.07    | 697                      | 704       |
| encapsulation        | organic material   | carbon black   | 1333-86-4             | 0.151       | 0.19                |         | 1878                     |           |
|                      | plastics           | epoxy resin    | -                     | 4.874       | 6.07                |         | 60727                    |           |
|                      | inorganic material | silicondioxide | 60676-86-0            | 45.219      | 56.36               | 62.62   | 563446                   | 626051    |
| leadfinish           | non noble metal    | tin            | 7440-31-5             | 0.814       | 1.01                | 1.01    | 10141                    | 10141     |
| plating              | noble metal        | silver         | 7440-22-4             | 0.090       | 0.11                | 0.11    | 1116                     | 1116      |
| glue                 | plastics           | acrylic resin  | -                     | 0.075       | 0.09                |         | 940                      |           |
|                      | noble metal        | silver         | 7440-22-4             | 0.267       | 0.33                | 0.42    | 3332                     | 4272      |
| *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 does not use any exemption.

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