



## Material Content Data Sheet

| <b>Umbrella Spec</b>                                | IH7B-IHM B 190 Cu     |                  |                                  |                              |   |               |   |  |  |
|---|-----------------------|------------------|----------------------------------|------------------------------|---|---------------|---|--|--|
| <b>Date</b>   | 2013-10-23            |                  |                                  |                              | <b>RoHS compliant</b>                   | no            |   |  |  |
| <b>Revision</b>                                     | 5.0                   |                  |                                  |                              | <b>valid from: date code 2013-11-01</b> |               |   |  |  |
| <b>Construction element</b>                         | <b>Material group</b> | <b>Materials</b> | <b>CAS-Nr.<br/>if applicable</b> | <b>Average<br/>mass [%]*</b> | <b>Sum [%]</b>                          | <b>Traces</b> | <b>Comment</b>  |  |  |
| chip  | inorganic material    | silicon          | 7440-21-3                        | 0,4                          | 0,4                                     |               |   |  |  |
| Base plate and substrate<br>including metallisation | non noble metal       | copper           | 7440-50-8                        | 62,6                         | 67,2                                    |               |   |  |  |
|   | inorganic material    | aluminium oxide  | 1344-28-1                        | 0,9                          |   |               |   |  |  |
|   | non noble metal       | tin              | 7440-31-5                        | 2,0                          |   |               |   |  |  |
|   | non noble metal       | lead             | 7439-92-1                        | 1,7                          |   |               |   |  |  |
|   | non noble metal       | nickel           | 7440-02-0                        |                              |   |               | X   |  |  |
|   | noble metal           | silver           | 7440-22-4                        |                              |   |               | X   |  |  |
| wire  | non noble metal       | aluminium        | 7429-90-5                        |                              |   |               | X   |  |  |
| encapsulation                                       | polymers              | silicone gel     |                                  | 11,5                         | 11,5                                    |               |   |  |  |
| housing   | polymers              | Polyamid (PA)    |                                  | 7,6                          | 11,0                                    |               | Containing no halogenated compounds or diantimony trioxide classifications:<br>NF F16-101 fire & smoke: I3 / F2<br>CEN/TS 45545:<br>R25: HL3 R24: HL3<br>R23: HL2 |  |  |
|   |                       |                  | inorganic material               | phosphorus                   |   | 0,1           |   |  |  |
|   |                       |                  | inorganic material               | silicondioxide / glasfiber   |   | 3,3           |   |  |  |
| lead, finish and plating                            | non noble metal       | copper           | 7440-50-8                        | 7,1                          | 9,9                                     |               |   |  |  |
|   | ferrous metal         | steel            | 11121-90-7                       | 2,8                          |   |               |   |  |  |
|   | non noble metal       | zinc             | 7440-66-6                        |                              |   |               | X   |  |  |
|   | non noble metal       | nickel           | 7440-02-0                        |                              |   |               | X   |  |  |
| deviation   | <25%                  |                  |                                  | Sum in total                 | 100,0                                   |               |   |  |  |

|                         |               |
|-------------------------|---------------|
| Weight range of product | <b>1883 g</b> |
| Fluctuation margin      | <25%          |

\*) related to component weight

\*\*) Weight of particular product, see technical product information

### Important Remarks:

- 1) This document provides full declaration of all materials present in Infineon products above a threshold of 0,1 % b.w. (1000 ppm).
- 2) Trace concentrations (i.e. < 0,1 % b.w) present in products are marked with an "X" as far as they represent substances-of-concern.  
A list of substances-of-concern can be found at <http://www.infineon.com/soc>.
- 3) All statements are based on our present knowledge and are subject to change at any time due to technical requirements and development.

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