



## Material Content Data Sheet

<b>Umbrella Spec</b>		IH7-IHM 190 Cu						
<b>Date</b>		2017-03-01		<b>RoHS compliant</b>		no		
<b>Revision</b>		6.0						
<b>Construction element</b>	<b>Material group</b>	<b>Materials</b>	<b>CAS-Nr. if applicable</b>	<b>Average 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 including metallisation	non noble metal	copper	7440-50-8	54,7	59,5			
	inorganic material	aluminium oxide	1344-28-1	3,8				
	non noble metal	tin	7440-31-5	0,2				
	non noble metal	lead	7439-92-1	0,9				
	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		9,4	15,4			
	polymers	epoxid resin		6,0				
housing	polymers	Polyamid (PA)		6,4	9,3		Containing no halogenated compounds or diantimony trioxide classifications: DIN EN 45545: R24: HL3 R23: HL3 R22: HL3	
	inorganic material	phosphorus		0,1				
	inorganic material	silicondioxide / glasfiber		2,8				
lead, finish and plating	non noble metal	copper	7440-50-8	10,7	13,5			
	ferrous metal	steel	11121-90-7	2,8				
	non noble metal	zinc	7440-66-6				X	
	non noble metal	nickel	7440-02-0				X	
	polymers	polyamidomide					X	
printed circuit board (PCB) including metallisation and finish	polymers	epoxid resin (FR4)		1,3	1,8			
	non noble metal	copper	7440-50-8	0,6				
	non noble metal	tin	7440-31-5				X	
deviation	<25%			Sum in total		100,0		

Weight range of product family ** / gram	<b>1961</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.
- 4) Infineon products are not classified as "hazardous substances" according to the definition in the EU Directive 67/548/EC and do therefore not require Material Safety Data Sheets.

Company	Infineon Technologies AG
Address	81726 München
Internet	<a href="http://www.infineon.com">www.infineon.com</a>