



Typical Appearance

## Material Content Data Sheet

<b>Umbrella Spec</b>	IH7B-IHM B 190 Cu TIM							
<b>Date</b>	2017-03-01		<b>RoHS compliant</b>		yes			
<b>Revision</b>	9.0		<b>valid from:</b>					
<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	62,1	67,3			
	inorganic material	aluminium oxide	1344-28-1	1,0				
	non noble metal	tin	7440-31-5	3,0				
	non noble metal	lead	7439-92-1	0,7				RoHS compliant; according to exception 7a.
	non noble metal	nickel	7440-02-0	0,2				
	noble metal	silver	7440-22-4	0,1				
	inorganic material	zirconium dioxide	1314-23-4	0,2				
	inorganic material	phosphorus				X		
wire	non noble metal	aluminium	7429-90-5			X		
encapsulation	polymers	silicone gel		11,5	11,5			
housing							Containing no halogenated compounds or diantimony trioxide  classifications: DIN EN 45545: R24: HL3 R23: HL3 R22: HL3	
	polymers	Polyamid (PA)		7,6	11,0			
	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		
TIM	non noble metal	aluminium	7429-90-5			X		
	non noble metal	zinc oxid	1314-13-2			X		
	inorganic material	silicon	7440-21-3			X		
	polymers	hydrocarbon co-oligomer				X		
	polymers	hydrocarbon waxes				X		
	non noble metal	titanium	61417-49-0			X		
	deviation	<25%			Sum in total	100,0		

Weight range of product family ** / gram	<b>1885</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
Address	81726 München
Internet	<a href="http://www.infineon.com">www.infineon.com</a>