



Material Content Data Sheet

Umbrella Spec	IH4-IHM 130 Cu LK						
Date	2017-03-01			RoHS compliant		no	
Revision	6.0						
Construction element	Material group	Materials	CAS-Nr. if applicable	Average mass [%]*	Sum [%]	Traces	Comment
chip	inorganic material	silicon	7440-21-3	0,4	0,4		
Base plate and substrate including metallisation	non noble metal	copper	7440-50-8	54,0	61,1		
	inorganic material	aluminium oxide	1344-28-1	5,3			
	non noble metal	tin	7440-31-5	0,9			
	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		9,2	14,8		
	polymers	epoxid resin		5,6			
housing	polymers	Polyamid (PA)		6,5	9,4		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	10,2	12,7		
	ferrous metal	steel	11121-90-7	2,5			
	non noble metal	zinc	7440-66-6			X	
	non noble metal	nickel	7440-02-0			X	
printed circuit board (PCB) including metallisation and finish	polymers	epoxid resin (FR4)		1,1	1,6		
	non noble metal	copper	7440-50-8	0,5			
	non noble metal	tin	7440-31-5			X	
deviation	<25%			Sum in total	100,0		

Weight range of product family ** / gram	1400
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.

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