

Material Content Data Sheet

Umbrella Spec	XHP3 IGBT + Diode + B5		
Date	2023-06-21	**RoHS compliant**	Yes
Revision	1.0		

Construction element	*Material group*	*Materials*	*CAS-Nr. if applicable*	*Average mass [%]**	*Sum [%]*	*Traces*	*Comment*
chip	inorganic material	silicon	7440-21-3	0,7	0,7		
base plate and substrate including metallisation	inorganic material	silicon carbide	409-21-2	14,4	37,3		
	non noble metal	aluminum	7429-90-5	8,4			
	inorganic material	aluminum nitride		4,5			
	non noble metal	copper	7440-50-8	5,7			
	non noble metal	tin	7440-31-5	2,9			
	non noble metal	nickel	7440-02-0	0,8			
	non noble metal	lead	7439-92-1	0,5			RoHS compliant; according to exception 7a
	noble metal	silver	7440-22-4	0,1			
	polymers	acrylic compounds				X	
wire	non noble metal	aluminium	7429-90-5	0,2	0,2		
encapsulation	polymers	silicone gel		20,7	20,7		
housing	polymers	polyamid (PA)		15,5	22,5		Containing no halogenated compounds or diantimony trioxide
	inorganic material	magnesium hydroxide		0,1			
	inorganic material	phosphorus		0,2			
	inorganic material	silicondioxide / glasfiber		6,7			
	arcylic compound	PET				X	
	organic material	paper				X	
lead, finish and plating	non noble metal	copper	7440-50-8	11,4	18,7		
	ferrous metal	steel	11121-90-7	5,9			
	non noble metal	brass (CuSn8)		1,4			
	non noble metal	zinc	7440-66-6			X	
	non noble metal	nickel	7440-02-0			X	
	polymers	polyamidomide				X	
deviation	<25%			Sum in total	100		

Weight range of product family **	**678 g**
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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