

Material Content Data Sheet

RoHS

Umbrella Spec	EconoDUAL™ 3 (2DCB) IGBT7 + Ribbon bonds			**Revision**		01	
Issued	03.12.2024			**Weight***		353 g	
Construction element	***Material group***	***CAS-Nr.*** *if applicable*	***Materials***	***Average mass***	***Sum***	***Traces***	***Comment***
semiconductors	inorganic material	7440-21-3	silicon	0,1%	0,14%	X	
	non noble metal	7440-02-0	nickel			X	
baseplate and substrate including metallisation	non noble metal	7440-50-8	copper	59,5%	61,5%		
	inorganic material	1344-28-1	aluminum oxide	1,5%			
	non noble metal	7440-02-0	nickel	0,4%			
	inorganic material	1314-23-4	zirconium-dioxide	0,1%			
	inorganic material	7723-14-0	phosphorus			X	
	noble metal	7440-69-9	bismuth			X	
ribbon bond Al	non noble metal	7429-90-5	aluminum	0,8%	0,8%		
bond wire Al	non noble metal	7429-90-5	aluminum	0,2%	0,2%		
bond wire Cu	non noble metal	7440-50-8	copper	0,5%	0,5%		
silicone compounds	polymers	-	silicone-rubber VMQ	7,2%	7,4%		
	inorganic material	-	other	0,1%			no duty of declaration
	inorganic material	112945-52-5	amorphous, pyrogenetic silica	0,1%			
housing	polymers	-	PBT	6,6%	14,2%		
	inorganic material	-	glass fiber	4,3%			
	inorganic material	-	ISO 1043-4 FR(17) aromatic brominated compounds (excluding brominated diphenyl ether and biphenyls) in combination with antimony compounds, not declarable	2,2%			
	inorganic material	1309-64-4	antimonious trioxide	0,9%			
	inorganic material	-	further additives	0,2%			no duty of declaration
	polymers	9002-84-0	Ethene, tetrafluoro-, homopolymer	0,1%			
terminals, nuts and bushings	non noble metal	7440-50-8	copper	8,7%	12,2%		
	non noble metal	7439-89-6	iron	2,8%			
	non noble metal	7440-66-6	zinc	0,6%			
	non noble metal	7440-02-0	nickel			X	
	non noble metal	7440-31-5	tin			X	
	non noble metal	7440-47-3	chrome			X	
	inorganic material	7723-14-0	phosphorus			X	
	noble metal	7440-22-4	silver			X	
	inorganic material	1308-38-9	chrome(III)oxid			X	
SMD components	non noble metal	7439-89-6	iron		0,01%	X	
	non noble metal	7440-02-0	nickel			X	
	inorganic material	1317-36-8	lead monoxide	0,003%			RoHS compliant; according to exception 7c. I
	non noble metal	7440-50-8	copper			X	
	non noble metal	7440-31-5	tin			X	
	inorganic material	1309-64-4	antimonious trioxide			X	
	inorganic material	1313-99-1	nickel monoxide			X	
	inorganic material	1308-06-1	tricobalt tetraoxide			X	
tin solder	non noble metal	7440-31-5	tin	2,9%	3,0%		
	noble metal	7440-22-4	silver			X	
	non noble metal	7440-36-0	antimony			X	
*deviation	< 25%			Sum in total:	100%		

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. Infineon Technologies AG and Infineon Technologies AG suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.
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