



Material Content Data Sheet

Umbrella Spec		EconoDUAL™ 3 with TIM						
Date		2013-08-21		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	0,3	0,3			
Base plate and substrate including metallisation	non noble metal	copper	7440-50-8	59,0	62,8			
	inorganic material	aluminium oxid	1344-28-1	1,2				
	non noble metal	tin	7440-31-5	2,4				
	noble metal	silver	7440-22-4	0,1				
	non noble metal	nickel	7440-02-0	0,1				
wire	non noble metal	aluminium	7429-90-5	1,4	1,4			
encapsulation	polymers	silicone gel		9,6	9,6			
housing	polymers	PBT		8,1	14,2			
	inorganic material	antimonytrioxide	1309-64-4	0,9				
	plastics	brominated resin		0,6				
	plastics	chlorinated resin		0,4				
lead, finish and plating	inorganic material	silicondioxide / glasfiber		4,2				
	non noble metal	copper	7440-50-8	7,5	11,6			
	ferrous metal	steel		2,7				
	non noble metal	zinc	7440-66-6	1,4				
	non noble metal	tin	7440-31-5			X		
	noble metal	silver	7440-22-4			X		
	non noble metal	nickel	7440-02-0			X		
	non noble metal	aluminium	7429-90-5			X		
	TIM	non noble metal	aluminium	7429-90-5	0,10	0,10		
		non noble metal	zinc oxid	1314-13-2			X	
	polymers	silicon	7440-21-3			X		
	polymers	hydrocarbon co-oligomer				X		
	polymers	hydrocarbon Waxes				X		
	non noble metal	titanium	61417-49-0			X		
smd (including thermistors, resistors and shunts)	inorganic material	lead oxide	1317-36-8	0,01	0,01		RoHS compliant	
	non noble metal	copper	7440-50-8			X		
	non noble metal	tin	7440-31-5			X		
	noble metal	silver	7440-22-4			X		
deviation	<25%			Sum in total	100,0			

Weight range of product	357g
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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