



Material Content Data Sheet

Umbrella Spec	EconoPACK™ + ; D - series with TIM								
Date	2013-12-10			RoHS compliant		Yes			
Revision	3.0								
Construction element	Material group	Materials	CAS-Nr. if applicable	Average mass [%]*	Sum [%]	Traces	Comment		
chip	inorganic material	silicon	7440-21-3	0,1	0,1				
Base plate and substrate including metallisation	non noble metal	copper	7440-50-8	64,0	68,9				
	inorganic material	aluminium oxid	1344-28-1	1,7					
	non noble metal	tin	7440-31-5	3,0					
	noble metal	silver	7440-22-4	0,1					
	non noble metal	nickel	7440-02-0	0,1					
	non noble metal	magnesium	7439-95-4				X		
wire	non noble metal	aluminium	7429-90-5	1,6	1,6				
encapsulation	polymers	silicone gel		8,2	8,2				
housing	polymers	PBT		7,7	13,5				
	inorganic material	antimonytrioxide	1309-64-4	0,8					
	plastics	brominated resin		0,6					
	plastics	chlorinated resin		0,4					
	inorganic material	silicondioxide / glasfiber		4,0					
lead, finish and plating	non noble metal	copper	7440-50-8	3,5	7,5				
	ferrous metal	steel		4,0					
	non noble metal	cobalt	7440-48-4				X		
	non noble metal	zinc	7440-66-6				X		
	non noble metal	aluminium	7429-90-5				X		
	non noble metal	tin	7440-31-5				X		
	noble metal	silver	7440-22-4				X		
	non noble metal	nickel	7440-02-0				X		
	TIM	non noble metal	aluminium	7429-90-5		0,1	0,1		
		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	0,02	0,02		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	100,00				

Weight range of product	927 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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