



Material Content Data Sheet



Sales Product Name				SAK-XC2289I-136F128LR AA		Issued		20. July 2018	
MA#				MA001256148					
Package				PG-LQFP-144-23		Weight*		1445.02 mg	
Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]	
chip	inorganic material	silicon	7440-21-3	56.102	3.88	3.88	38824	38824	
leadframe	inorganic material	phosphorus	7723-14-0	0.110	0.01		76		
	non noble metal	zinc	7440-66-6	0.442	0.03		306		
	non noble metal	iron	7439-89-6	8.832	0.61		6112		
wire	non noble metal	copper	7440-50-8	358.600	24.82	25.47	248163	254657	
	noble metal	palladium	7440-05-3	0.032	0.00		22		
	non noble metal	copper	7440-50-8	3.192	0.22	0.22	2209	2231	
encapsulation	organic material	carbon black	1333-86-4	4.869	0.34		3369		
	plastics	epoxy resin	-	131.452	9.10		90969		
	inorganic material	silicondioxide	60676-86-0	837.399	57.94	67.38	579509	673847	
leadfinish	noble metal	palladium	7440-05-3	0.122	0.01		84		
	noble metal	silver	7440-22-4	0.106	0.01		74		
	noble metal	gold	7440-57-5	0.195	0.01		135		
	non noble metal	nickel	7440-02-0	4.191	0.29	0.32	2900	3193	
plating	noble metal	silver	7440-22-4	0.619	0.04		429		
	noble metal	gold	7440-57-5	1.138	0.08		787		
	noble metal	palladium	7440-05-3	0.708	0.05		490		
	non noble metal	nickel	7440-02-0	24.395	1.69	1.86	16882	18588	
glue	plastics	epoxy resin	-	3.128	0.22		2165		
	noble metal	silver	7440-22-4	9.385	0.65	0.87	6495	8660	
*deviation	< 10%					Sum in total:	100.00	1000000	

Important Remarks:

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This product is in compliance with EU Directive 2015/863/EU amending Annex II to EU Directive 2011/65/EU (RoHS) and does not use any exemption

Company	Infineon Technologies AG
Address	81726 München
Internet	www.infineon.com