



Material Content Data Sheet



Sales Product Name				SAK-TC1728N-192F133HR AC		Issued		4. March 2019	
MA#				MA001723464					
Package				PG-LQFP-176-22		Weight*		1982.49 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	47.684	2.41	2.41	24052	24052	
leadframe	inorganic material	phosphorus	7723-14-0	0.136	0.01		69		
	non noble metal	zinc	7440-66-6	0.543	0.03		274		
	non noble metal	iron	7439-89-6	10.869	0.55		5482		
wires	non noble metal	copper	7440-50-8	441.312	22.26	22.85	222605	228430	
	noble metal	gold	7440-57-5	0.003	0.00		2		
	noble metal	palladium	7440-05-3	0.075	0.00		38		
encapsulation	non noble metal	copper	7440-50-8	3.343	0.17	0.17	1686	1726	
	organic material	carbon black	1333-86-4	4.295	0.22		2167		
	plastics	epoxy resin	-	181.825	9.17		91715		
leadfinish	inorganic material	silicondioxide	60676-86-0	1245.571	62.82	72.21	628287	722169	
	noble metal	palladium	7440-05-3	0.004	0.00		2		
	noble metal	silver	7440-22-4	0.004	0.00		2		
plating	noble metal	gold	7440-57-5	0.007	0.00		4		
	non noble metal	nickel	7440-02-0	7.048	0.36	0.36	3555	3563	
	noble metal	silver	7440-22-4	0.016	0.00		8		
glue	noble metal	palladium	7440-05-3	0.019	0.00		9		
	noble metal	gold	7440-57-5	0.030	0.00		15		
	non noble metal	nickel	7440-02-0	30.469	1.54	1.54	15369	15401	
*deviation	plastics	epoxy resin	-	2.032	0.10		1025		
	noble metal	silver	7440-22-4	7.205	0.36	0.46	3634	4659	
						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