



Material Content Data Sheet



Sales Product Name		SAK-XC2388E-136F128LR AA		Issued		22. July 2019		
MA#		MA005353456						
Package		PG-LQFP-144-23		Weight*		1441.15 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	3.89	3.89	38928	38928
leadframe	inorganic material	phosphorus	7723-14-0	0.110	0.01		77	
	non noble metal	zinc	7440-66-6	0.442	0.03		306	
	non noble metal	iron	7439-89-6	8.832	0.61		6128	
wires	non noble metal	copper	7440-50-8	358.600	24.88	25.53	248829	255340
	noble metal	palladium	7440-05-3	0.032	0.00		22	
	non noble metal	copper	7440-50-8	3.192	0.22	0.22	2215	2237
encapsulation	organic material	carbon black	1333-86-4	4.872	0.34		3381	
	plastics	epoxy resin	-	131.543	9.13		91277	
	inorganic material	silicondioxide	60676-86-0	837.980	58.16	67.63	581467	676125
leadfinish	noble metal	silver	7440-22-4	0.002	0.00		1	
	noble metal	palladium	7440-05-3	0.002	0.00		2	
	noble metal	gold	7440-57-5	0.004	0.00		3	
	non noble metal	nickel	7440-02-0	3.940	0.27	0.27	2734	2740
plating	noble metal	silver	7440-22-4	0.012	0.00		9	
	noble metal	palladium	7440-05-3	0.014	0.00		10	
	noble metal	gold	7440-57-5	0.023	0.00		16	
	non noble metal	nickel	7440-02-0	22.931	1.59	1.59	15912	15947
glue	plastics	epoxy resin	-	3.128	0.22		2171	
	noble metal	silver	7440-22-4	9.385	0.65	0.67	6512	8683
*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

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