



Material Content Data Sheet



Sales Product Name				SAK-XC2331D-20F66LR AA		Issued		31. July 2018	
MA#				MA002319782					
Package				PG-LQFP-64-24		Weight*		374.13 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	17.352	4.64	4.64	46379	46379	
leadframe	inorganic material	phosphorus	7723-14-0	0.033	0.01		89		
	non noble metal	zinc	7440-66-6	0.134	0.04		357		
	non noble metal	iron	7439-89-6	2.675	0.72		7150		
wires	non noble metal	copper	7440-50-8	108.612	29.03	29.80	290307	297903	
	noble metal	palladium	7440-05-3	0.012	0.00		32		
	non noble metal	copper	7440-50-8	1.203	0.32	0.32	3214	3246	
encapsulation	organic material	carbon black	1333-86-4	1.151	0.31		3077		
	plastics	epoxy resin	-	31.087	8.31		83092		
	inorganic material	silicondioxide	60676-86-0	198.035	52.91	61.53	529325	615494	
leadfinish	noble metal	palladium	7440-05-3	0.001	0.00		3		
	noble metal	silver	7440-22-4	0.001	0.00		3		
	noble metal	gold	7440-57-5	0.002	0.00		5		
	non noble metal	nickel	7440-02-0	1.779	0.48	0.48	4754	4765	
plating	noble metal	silver	7440-22-4	0.003	0.00		8		
	noble metal	palladium	7440-05-3	0.003	0.00		9		
	noble metal	gold	7440-57-5	0.005	0.00		14		
	non noble metal	nickel	7440-02-0	5.378	1.44	1.44	14375	14406	
glue	plastics	epoxy resin	-	1.666	0.45		4452		
	noble metal	silver	7440-22-4	4.997	1.34	1.79	13355	17807	
*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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