

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	SAK-TC224L-16F133N AC	**Issued**	27. April 2022
MA#	MA005731178		
Package	PG-TQFP-144-27	**Weight***	698.11 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	17.136	2.45	2.45	24546	24546
leadframe	inorganic material	phosphorus	7723-14-0	0.066	0.01		95	
	non noble metal	zinc	7440-66-6	0.265	0.04		380	
	non noble metal	iron	7439-89-6	5.302	0.76		7595	
	non noble metal	copper	7440-50-8	215.278	30.84	31.65	308371	316441
wires	noble metal	palladium	7440-05-3	0.019			27	
	non noble metal	copper	7440-50-8	1.866	0.27	0.27	2674	2701
encapsulation	organic material	carbon black	1333-86-4	1.346	0.19		1927	
	plastics	epoxy resin	-	56.960	8.16		81591	
	inorganic material	silicondioxide	60676-86-0	390.200	55.90	64.25	558932	642450
leadfinish	noble metal	palladium	7440-05-3	0.003			4	
	noble metal	silver	7440-22-4	0.003			4	
	noble metal	gold	7440-57-5	0.005			7	
	non noble metal	nickel	7440-02-0	4.713	0.68	0.68	6752	6767
plating	noble metal	palladium	7440-05-3	0.000			1	
	noble metal	silver	7440-22-4	0.000			1	
	noble metal	gold	7440-57-5	0.000			1	
	non noble metal	nickel	7440-02-0	0.366	0.05	0.05	524	527
glue	plastics	epoxy resin	-	1.009	0.14		1445	
	noble metal	silver	7440-22-4	3.577	0.51	0.65	5123	6568
*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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