



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	SAK-TC233LP-32F200N AC	<b>Issued</b>	14. February 2022
<b>MA#</b>	MA005624695		
<b>Package</b>	PG-TQFP-100-23	<b>Weight*</b>	698.65 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	23.351	3.34	3.34	33423	33423
leadframe	inorganic material	phosphorus	7723-14-0	0.056	0.01		80	
	non noble metal	zinc	7440-66-6	0.223	0.03		319	
	non noble metal	iron	7439-89-6	4.458	0.64		6381	
	non noble metal	copper	7440-50-8	181.029	25.91	26.59	259114	265894
wires	noble metal	palladium	7440-05-3	0.015			21	
	non noble metal	copper	7440-50-8	1.478	0.21	0.21	2116	2137
encapsulation	organic material	carbon black	1333-86-4	1.408	0.20		2015	
	plastics	epoxy resin	-	59.588	8.53		85291	
	inorganic material	silicondioxide	60676-86-0	408.203	58.45	67.18	584277	671583
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	4.642	0.66	0.66	6645	6660
plating	noble metal	silver	7440-22-4	0.005			7	
	noble metal	palladium	7440-05-3	0.005			8	
	noble metal	gold	7440-57-5	0.009			12	
	non noble metal	nickel	7440-02-0	8.662	1.24	1.24	12399	12426
glue	plastics	epoxy resin	-	1.211	0.17		1733	
	noble metal	silver	7440-22-4	4.292	0.61	0.78	6144	7877
*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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