

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	SAK-TC213L-8F133F AC	**Issued**	24. September 2019
MA#	MA001781474		
Package	PG-TQFP-100-23	**Weight***	697.29 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	2.46	2.46	24575	24575
leadframe	inorganic material	phosphorus	7723-14-0	0.056	0.01		80	
	non noble metal	zinc	7440-66-6	0.223	0.03		320	
	non noble metal	iron	7439-89-6	4.458	0.64		6394	
	non noble metal	copper	7440-50-8	181.029	25.96	26.64	259619	266413
wires	noble metal	gold	7440-57-5	0.001	0.00		2	
	noble metal	palladium	7440-05-3	0.032	0.00		46	
	non noble metal	copper	7440-50-8	1.423	0.20	0.20	2041	2089
encapsulation	organic material	carbon black	1333-86-4	1.425	0.20		2044	
	plastics	epoxy resin	-	60.326	8.65		86515	
	inorganic material	silicondioxide	60676-86-0	413.257	59.29	68.14	592664	681223
leadfinish	noble metal	palladium	7440-05-3	0.003	0.00		4	
	noble metal	silver	7440-22-4	0.003	0.00		4	
	noble metal	gold	7440-57-5	0.005	0.00		7	
	non noble metal	nickel	7440-02-0	4.642	0.67	0.67	6658	6673
plating	noble metal	silver	7440-22-4	0.005	0.00		7	
	noble metal	palladium	7440-05-3	0.005	0.00		8	
	noble metal	gold	7440-57-5	0.009	0.00		12	
	non noble metal	nickel	7440-02-0	8.662	1.24	1.24	12423	12450
glue	plastics	epoxy resin	-	1.009	0.14		1447	
	noble metal	silver	7440-22-4	3.577	0.51	0.65	5130	6577
*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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