

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	SAK-TC299TP-128F300N BC	**Issued**	12. August 2019
MA#	MA005298752		
Package	PG-LFBGA-516-5	**Weight***	1987.14 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	36.614	1.84	1.84	18425	18425
wire	noble metal	palladium	7440-05-3	0.023	0.00		12	
	non noble metal	copper	7440-50-8	2.326	0.12	0.12	1171	1183
encapsulation	organic material	carbon black	1333-86-4	1.679	0.08		845	
	plastics	epoxy resin	-	115.872	5.83		58311	
	inorganic material	silicondioxide	60676-86-0	722.103	36.35	42.26	363387	422543
substrate	inorganic material	bariumsulfate	7727-43-7	23.317	1.17		11734	
	non noble metal	metal hydroxide	-	26.895	1.35		13535	
	plastics	acrylic resin	-	26.985	1.36		13580	
	inorganic material	amorphous silica	7631-86-9	53.790	2.71		27069	
	plastics	epoxy resin	-	95.881	4.83		48251	
	inorganic material	glass fibre wool	65997-17-3	107.581	5.41		54138	
	non noble metal	copper	7440-50-8	517.918	26.06	42.89	260634	428941
plating	noble metal	gold	7440-57-5	0.489	0.02		246	
	non noble metal	nickel	7440-02-0	1.337	0.07	0.09	673	919
solderball	noble metal	silver	7440-22-4	8.700	0.44		4378	
	non noble metal	tin	7440-31-5	239.863	12.07	12.51	120707	125085
glue	plastics	epoxy resin	-	1.443	0.07		726	
	noble metal	silver	7440-22-4	4.328	0.22	0.29	2178	2904
*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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