

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	SAK-TC299TP-128F300N BC	**Issued**	25. July 2019
MA#	MA005353365		
Package	PG-LFBGA-516-10	**Weight***	2070.87 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	38.541	1.86	1.86	18611	18611
wire	noble metal	palladium	7440-05-3	0.031	0.00		15	
	non noble metal	copper	7440-50-8	3.051	0.15	0.15	1473	1488
encapsulation	organic material	carbon black	1333-86-4	1.550	0.07		749	
	plastics	epoxy resin	-	106.984	5.17		51662	
	inorganic material	silicondioxide	60676-86-0	666.713	32.20	37.44	321949	374360
substrate	inorganic material	bariumsulfate	7727-43-7	25.494	1.23		12311	
	non noble metal	metal hydroxide	-	27.781	1.34		13415	
	plastics	acrylic resin	-	29.504	1.42		14247	
	inorganic material	amorphous silica	7631-86-9	55.562	2.68		26831	
	plastics	epoxy resin	-	99.958	4.83		48269	
	inorganic material	glass fibre wool	65997-17-3	111.125	5.37		53661	
	non noble metal	copper	7440-50-8	666.147	32.17	49.04	321676	490410
plating	noble metal	gold	7440-57-5	1.992	0.10		962	
	non noble metal	nickel	7440-02-0	5.453	0.26	0.36	2633	3595
solderball	noble metal	silver	7440-22-4	7.877	0.38		3804	
	non noble metal	tin	7440-31-5	217.176	10.49	10.87	104872	108676
glue	plastics	epoxy resin	-	1.481	0.07		715	
	noble metal	silver	7440-22-4	4.442	0.21	0.28	2145	2860
*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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