

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	SAK-TC389QP-160F300S AD	**Issued**	31. January 2019
MA#	MA003625856		
Package	PG-FBGA-516-1	**Weight***	2092.37 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	26.579	1.27	1.27	12703	12703
wire	noble metal	palladium	7440-05-3	0.026	0.00		13	
	non noble metal	copper	7440-50-8	2.609	0.12	0.12	1247	1260
encapsulation	organic material	carbon black	1333-86-4	1.573	0.08		752	
	plastics	epoxy resin	-	108.544	5.19		51876	
	inorganic material	silicondioxide	60676-86-0	676.432	32.33	37.60	323285	375913
substrate	inorganic material	bariumsulfate	7727-43-7	22.732	1.09		10864	
	plastics	acrylic resin	-	26.308	1.26		12573	
	non noble metal	metal hydroxide	-	31.008	1.48		14819	
	inorganic material	amorphous silica	7631-86-9	62.016	2.96		29639	
	plastics	epoxy resin	-	107.838	5.15		51539	
	inorganic material	glass fibre wool	65997-17-3	124.031	5.93		59278	
	non noble metal	copper	7440-50-8	696.056	33.26	51.13	332664	511376
plating	noble metal	gold	7440-57-5	1.985	0.09		949	
	non noble metal	nickel	7440-02-0	5.432	0.26	0.35	2596	3545
solderball	noble metal	silver	7440-22-4	6.821	0.33		3260	
	non noble metal	tin	7440-31-5	188.053	8.99	9.32	89875	93135
glue	plastics	epoxy resin	-	1.082	0.05		517	
	noble metal	silver	7440-22-4	3.246	0.16	0.21	1551	2068
*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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