



Material Content Data Sheet



Halogen-Free

Sales Product Name	SAK-TC337DA-32F200S AA	Issued	23. June 2021
MA#	MA005431321		
Package	PG-LFBGA-292-13	Weight*	877.57 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	14.294	1.63	1.63	16288	16288
wire	noble metal	palladium	7440-05-3	0.015			17	
	non noble metal	copper	7440-50-8	1.502	0.17	0.17	1712	1729
encapsulation	organic material	carbon black	1333-86-4	0.723	0.08		824	
	plastics	epoxy resin	-	49.895	5.69		56856	
	inorganic material	silicondioxide	60676-86-0	310.939	35.43	41.20	354318	411998
substrate	inorganic material	bariumsulfate	7727-43-7	10.509	1.20		11975	
	plastics	acrylic resin	-	12.162	1.39		13859	
	non noble metal	metal hydroxide	-	14.262	1.63		16252	
	inorganic material	amorphous silica	7631-86-9	28.524	3.25		32504	
	plastics	epoxy resin	-	49.635	5.66		56560	
	inorganic material	glass fibre wool	65997-17-3	57.049	6.50		65007	
	non noble metal	copper	7440-50-8	193.849	22.09	41.72	220892	417049
plating	noble metal	gold	7440-57-5	1.136	0.13		1295	
	non noble metal	nickel	7440-02-0	3.110	0.35	0.48	3544	4839
solderball	noble metal	silver	7440-22-4	4.457	0.51		5079	
	non noble metal	tin	7440-31-5	122.898	14.00	14.51	140043	145122
glue	plastics	epoxy resin	-	0.653	0.07		744	
	noble metal	silver	7440-22-4	1.958	0.22	0.29	2231	2975
*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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