



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	SAK-TC277T-64F200N DC	<b>Issued</b>	11. August 2021
<b>MA#</b>	MA005347537		
<b>Package</b>	PG-LFBGA-292-10	<b>Weight*</b>	979.43 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	24.748	2.53	2.53	25268	25268
wire	noble metal	palladium	7440-05-3	0.020			20	
	non noble metal	copper	7440-50-8	1.976	0.20	0.20	2017	2037
encapsulation	organic material	carbon black	1333-86-4	0.703	0.07		718	
	plastics	epoxy resin	-	48.523	4.95		49542	
	inorganic material	silicondioxide	60676-86-0	302.387	30.87	35.89	308738	358998
substrate	inorganic material	bariumsulfate	7727-43-7	9.349	0.95		9545	
	plastics	acrylic resin	-	10.820	1.10		11047	
	non noble metal	metal hydroxide	-	12.990	1.33		13262	
	inorganic material	amorphous silica	7631-86-9	25.979	2.65		26525	
	plastics	epoxy resin	-	45.061	4.60		46008	
	inorganic material	glass fibre wool	65997-17-3	51.958	5.30		53050	
	non noble metal	copper	7440-50-8	310.560	31.73	47.66	317082	476519
plating	noble metal	gold	7440-57-5	1.136	0.12		1160	
	non noble metal	nickel	7440-02-0	3.110	0.32	0.44	3175	4335
solderball	noble metal	silver	7440-22-4	4.411	0.45		4504	
	non noble metal	tin	7440-31-5	121.620	12.42	12.87	124174	128678
glue	plastics	epoxy resin	-	1.020	0.10		1041	
	noble metal	silver	7440-22-4	3.060	0.31	0.41	3124	4165
*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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