

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	SAK-TC1797-512F180EF AC	**Issued**	27. July 2015
MA#	MA001382330		
Package	PG-BGA-416-27	**Weight***	3179.08 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	54.869	1.73	1.73	17259	17259
wire	non noble metal	copper	7440-50-8	4.217	0.13	0.13	1327	1327
encapsulation	organic material	carbon black	1333-86-4	2.379	0.07		748	
	plastics	epoxy resin	-	146.328	4.60		46029	
	inorganic material	silicondioxide	60676-86-0	1040.952	32.73	37.40	327438	374215
substrate	plastics	epoxy resin	-	22.546	0.71		7092	
	inorganic material	bariumsulfate	7727-43-7	34.597	1.09		10883	
	plastics	acrylic resin	-	40.039	1.26		12595	
	plastics	bismaleimide triazine resin	-	122.239	3.85		38451	
	inorganic material	aluminiumhydroxide	21645-51-2	134.463	4.23		42296	
	inorganic material	glass fibre	-	232.255	7.31		73057	
	non noble metal	copper	7440-50-8	961.301	30.24	48.69	302384	486758
plating	noble metal	gold	7440-57-5	2.541	0.08		799	
	non noble metal	nickel	7440-02-0	6.955	0.22	0.30	2188	2987
solderball	non noble metal	copper	7440-50-8	1.829	0.06		575	
	noble metal	silver	7440-22-4	14.634	0.46		4603	
	non noble metal	tin	7440-31-5	349.395	10.99	11.51	109905	115083
glue	plastics	epoxy resin	-	1.884	0.06		593	
	noble metal	silver	7440-22-4	5.652	0.18	0.24	1778	2371
*deviation	< 10%				Sum in total:	100.00		1000000

Important Remarks:

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This product is in compliance with EU Directive 2011/65/EU (RoHS) and does not use any exemption.

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