



Material Content Data Sheet



Sales Product Name				SAK-TC399XP-256F300S BC		Issued		31. January 2019	
MA#				MA003086384					
Package				PG-LFBGA-516-10		Weight*		2072.54 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	47.237	2.28	2.28	22792	22792	
wire	noble metal	palladium	7440-05-3	0.031	0.00		15		
	non noble metal	copper	7440-50-8	3.027	0.15	0.15	1461	1476	
encapsulation	organic material	carbon black	1333-86-4	1.534	0.07		740		
	plastics	epoxy resin	-	105.862	5.11		51078		
substrate	inorganic material	silicondioxide	60676-86-0	659.720	31.83	37.01	318315	370133	
	inorganic material	bariumsulfate	7727-43-7	25.494	1.23		12301		
	non noble metal	metal hydroxide	-	27.781	1.34		13404		
	plastics	acrylic resin	-	29.504	1.42		14236		
	inorganic material	amorphous silica	7631-86-9	55.562	2.68		26809		
	plastics	epoxy resin	-	99.958	4.82		48230		
	inorganic material	glass fibre wool	65997-17-3	111.125	5.36		53618		
plating	non noble metal	copper	7440-50-8	666.147	32.14	48.99	321416	490014	
	noble metal	gold	7440-57-5	1.992	0.10		961		
solderball	non noble metal	nickel	7440-02-0	5.453	0.26	0.36	2631	3592	
	noble metal	silver	7440-22-4	7.877	0.38		3801		
	non noble metal	tin	7440-31-5	217.176	10.48	10.86	104787	108588	
glue	plastics	epoxy resin	-	1.764	0.09		851		
	noble metal	silver	7440-22-4	5.292	0.26	0.35	2554	3405	
*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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