



Material Content Data Sheet



Sales Product Name				SAK-TC1784F-320F180EP BA		Issued		13. August 2019	
MA#				MA001594530					
Package				PG-LFBGA-292-6		Weight*		934.46 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	20.624	2.21	2.21	22070	22070	
wire	noble metal	palladium	7440-05-3	0.014	0.00		15		
	non noble metal	copper	7440-50-8	1.407	0.15	0.15	1506	1521	
encapsulation	organic material	carbon black	1333-86-4	0.711	0.08		761		
	plastics	epoxy resin	-	49.072	5.25		52514		
substrate	inorganic material	silicondioxide	60676-86-0	305.812	32.74	38.07	327261	380536	
	plastics	epoxy resin	-	6.479	0.69		6933		
	inorganic material	bariumsulfate	7727-43-7	9.942	1.06		10639		
	plastics	acrylic resin	-	11.506	1.23		12313		
	inorganic material	aluminiumhydroxide	21645-51-2	53.265	5.70		57001		
	plastics	epoxy bismaleimide triazine resin	-	61.156	6.54		65446		
plating	inorganic material	glass fibre	-	82.857	8.87		88669		
	non noble metal	copper	7440-50-8	196.577	21.04	45.13	210365	451366	
	noble metal	gold	7440-57-5	1.106	0.12		1184		
solderball	non noble metal	nickel	7440-02-0	3.027	0.32	0.44	3240	4424	
	noble metal	silver	7440-22-4	4.457	0.48		4770		
glue	non noble metal	tin	7440-31-5	122.898	13.15	13.63	131518	136288	
	plastics	epoxy resin	-	0.887	0.09		949		
*deviation	< 10%			2.660	0.28	0.37	2846	3795	
						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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