

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	SAK-TC1728N-192F133HR AC	**Issued**	25. January 2018
MA#	MA001647642		
Package	PG-LQFP-176-20	**Weight***	2048.34 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	57.220	2.79	2.79	27935	27935
leadframe	inorganic material	phosphorus	7723-14-0	0.155	0.01		76	
	non noble metal	zinc	7440-66-6	0.620	0.03		303	
	non noble metal	iron	7439-89-6	12.403	0.61		6055	
	non noble metal	copper	7440-50-8	503.632	24.59	25.24	245873	252307
wire	noble metal	palladium	7440-05-3	0.034	0.00		16	
	non noble metal	copper	7440-50-8	3.340	0.16	0.16	1630	1646
encapsulation	organic material	carbon black	1333-86-4	7.063	0.34		3448	
	plastics	epoxy resin	-	190.708	9.31		93104	
	inorganic material	silicondioxide	60676-86-0	1214.881	59.32	68.97	593105	689657
leadfinish	noble metal	palladium	7440-05-3	0.142	0.01		69	
	noble metal	silver	7440-22-4	0.124	0.01		61	
	noble metal	gold	7440-57-5	0.228	0.01		111	
	non noble metal	nickel	7440-02-0	4.888	0.24	0.27	2386	2627
plating	noble metal	silver	7440-22-4	0.928	0.05		453	
	noble metal	gold	7440-57-5	1.705	0.08		832	
	noble metal	palladium	7440-05-3	1.061	0.05		518	
	non noble metal	nickel	7440-02-0	36.558	1.78	1.96	17848	19651
glue	plastics	epoxy resin	-	3.163	0.15		1544	
	noble metal	silver	7440-22-4	9.490	0.46	0.61	4633	6177
*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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