

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	SAK-TC1782F-320F180HR BA	**Issued**	19. September 2019
MA#	MA001646028		
Package	PG-LQFP-176-20	**Weight***	2044.93 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	65.128	3.18	3.18	31848	31848
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		6065	
	non noble metal	copper	7440-50-8	503.632	24.63	25.28	246284	252728
wires	noble metal	palladium	7440-05-3	0.041	0.00		20	
	non noble metal	copper	7440-50-8	4.066	0.20	0.20	1988	2008
encapsulation	organic material	carbon black	1333-86-4	7.031	0.34		3438	
	plastics	epoxy resin	-	189.838	9.28		92834	
	inorganic material	silicondioxide	60676-86-0	1209.337	59.15	68.77	591385	687657
leadfinish	noble metal	palladium	7440-05-3	0.003	0.00		1	
	noble metal	silver	7440-22-4	0.002	0.00		1	
	noble metal	gold	7440-57-5	0.005	0.00		2	
	non noble metal	nickel	7440-02-0	4.595	0.22	0.22	2247	2251
plating	noble metal	silver	7440-22-4	0.019	0.00		9	
	noble metal	palladium	7440-05-3	0.021	0.00		10	
	noble metal	gold	7440-57-5	0.034	0.00		17	
	non noble metal	nickel	7440-02-0	34.364	1.68	1.68	16805	16841
glue	plastics	epoxy resin	-	3.409	0.17		1667	
	noble metal	silver	7440-22-4	10.226	0.50	0.67	5000	6667
*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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