



## Material Content Data Sheet



<b>Sales Product Name</b>		SAK-TC1782F-320F180HR BA		<b>Issued</b>		25. January 2018		
<b>MA#</b>		MA001646028						
<b>Package</b>		PG-LQFP-176-20		<b>Weight*</b>		2050.51 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	31762	31762
leadframe	inorganic material	phosphorus	7723-14-0	0.155	0.01		76	
	non noble metal	zinc	7440-66-6	0.620	0.03		302	
	non noble metal	iron	7439-89-6	12.403	0.60		6049	
wire	non noble metal	copper	7440-50-8	503.632	24.56	25.20	245613	252040
	noble metal	palladium	7440-05-3	0.041	0.00		20	
encapsulation	non noble metal	copper	7440-50-8	4.066	0.20	0.20	1983	2003
	organic material	carbon black	1333-86-4	7.026	0.34		3426	
	plastics	epoxy resin	-	189.701	9.25		92514	
leadfinish	inorganic material	silicondioxide	60676-86-0	1208.466	58.93	68.52	589350	685290
	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	
plating	non noble metal	nickel	7440-02-0	4.888	0.24	0.27	2384	2625
	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		517	
glue	non noble metal	nickel	7440-02-0	36.558	1.78	1.96	17829	19631
	plastics	epoxy resin	-	3.409	0.17		1662	
*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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