



## Material Content Data Sheet



<b>Sales Product Name</b>				SAK-TC1782F-320F180HR BA		<b>Issued</b>		19. January 2018	
<b>MA#</b>				MA001658676					
<b>Package</b>				PG-LQFP-176-20		<b>Weight*</b>		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		
wire	non noble metal	copper	7440-50-8	503.632	24.63	25.28	246284	252728	
	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	gold	7440-57-5	0.034	0.00		17		
	noble metal	palladium	7440-05-3	0.021	0.00		10		
	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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