

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	SAK-TC222S-12F133F AC	**Issued**	12. August 2019
MA#	MA001782632		
Package	PG-TQFP-80-7	**Weight***	281.06 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	17.136	6.10	6.10	60970	60970
leadframe	inorganic material	phosphorus	7723-14-0	0.028	0.01		99	
	non noble metal	zinc	7440-66-6	0.111	0.04		394	
	non noble metal	iron	7439-89-6	2.215	0.79		7882	
	non noble metal	copper	7440-50-8	89.946	32.00	32.84	320024	328399
wires	noble metal	gold	7440-57-5	0.001	0.00		4	
	noble metal	palladium	7440-05-3	0.025	0.01		91	
	non noble metal	copper	7440-50-8	1.132	0.40	0.41	4026	4121
encapsulation	organic material	carbon black	1333-86-4	0.477	0.17		1698	
	plastics	epoxy resin	-	20.201	7.19		71876	
	inorganic material	silicondioxide	60676-86-0	138.388	49.24	56.60	492380	565954
leadfinish	noble metal	palladium	7440-05-3	0.001	0.00		3	
	noble metal	silver	7440-22-4	0.001	0.00		3	
	noble metal	gold	7440-57-5	0.001	0.00		5	
	non noble metal	nickel	7440-02-0	1.472	0.52	0.52	5236	5247
plating	noble metal	silver	7440-22-4	0.003	0.00		10	
	noble metal	palladium	7440-05-3	0.003	0.00		12	
	noble metal	gold	7440-57-5	0.005	0.00		19	
	non noble metal	nickel	7440-02-0	5.327	1.90	1.90	18953	18994
glue	plastics	epoxy resin	-	1.009	0.36		3589	
	noble metal	silver	7440-22-4	3.577	1.27	1.63	12726	16315
*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

Company	Infineon Technologies AG
Address	81726 München
Internet	www.infineon.com