

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	SAK-TC277TP-64F200N DC	**Issued**	7. August 2019
MA#	MA003975672		
Package	PG-LFBGA-292-6	**Weight***	935.04 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	23.511	2.51	2.51	25144	25144
wire	noble metal	palladium	7440-05-3	0.014	0.00		15	
	non noble metal	copper	7440-50-8	1.407	0.15	0.15	1505	1520
encapsulation	organic material	carbon black	1333-86-4	0.706	0.08		755	
	plastics	epoxy resin	-	48.697	5.21		52080	
	inorganic material	silicondioxide	60676-86-0	303.473	32.46	37.75	324558	377393
substrate	plastics	epoxy resin	-	6.479	0.69		6929	
	inorganic material	bariumsulfate	7727-43-7	9.942	1.06		10632	
	plastics	acrylic resin	-	11.506	1.23		12305	
	inorganic material	aluminiumhydroxide	21645-51-2	53.265	5.70		56966	
	plastics	epoxy bismaleimide triazine resin	-	61.156	6.54		65405	
	inorganic material	glass fibre	-	82.857	8.86		88614	
	non noble metal	copper	7440-50-8	196.577	21.02	45.10	210235	451086
plating	noble metal	gold	7440-57-5	1.106	0.12		1183	
	non noble metal	nickel	7440-02-0	3.027	0.32	0.44	3238	4421
solderball	noble metal	silver	7440-22-4	4.457	0.48		4767	
	non noble metal	tin	7440-31-5	122.898	13.14	13.62	131437	136204
glue	plastics	epoxy resin	-	0.989	0.11		1058	
	noble metal	silver	7440-22-4	2.968	0.32	0.43	3174	4232
*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