



Material Content Data Sheet



Halogen-Free

Sales Product Name	IKQ50N120CH3	Issued	10. May 2021
MA#	MA001620120		
Package	PG-TO247-3-46	Weight*	6900.15 mg

Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip_1	inorganic material	silicon	7440-21-3	17.598	0.26	0.26	2550	2550
chip_2	inorganic material	silicon	7440-21-3	9.050	0.13	0.13	1312	1312
leadframe	inorganic material	phosphorus	7723-14-0	1.220	0.02		177	
	non noble metal	iron	7439-89-6	4.066	0.06		589	
	non noble metal	copper	7440-50-8	4,060.901	58.83	58.91	588525	589291
wire	non noble metal	aluminium	7429-90-5	30.226	0.44	0.44	4380	4380
encapsulation	organic material	carbon black	1333-86-4	20.398	0.30		2956	
	plastics	epoxy resin	-	387.565	5.62		56168	
	inorganic material	silicondioxide	60676-86-0	1,631.854	23.65	29.57	236495	295619
leadfinish	non noble metal	tin	7440-31-5	33.555	0.49	0.49	4863	4863
plating	non noble metal	nickel	7440-02-0	2.052	0.03	0.03	297	297
solder	non noble metal	antimony	7440-36-0	1.282	0.02		186	
	noble metal	silver	7440-22-4	3.206	0.05		465	
	non noble metal	tin	7440-31-5	8.335	0.12	0.19	1208	1859
heatspreader	inorganic material	phosphorus	7723-14-0	0.207			30	
	non noble metal	iron	7439-89-6	0.689	0.01		100	
	non noble metal	copper	7440-50-8	687.941	9.97	9.98	99699	99829
*deviation	< 10%	Sum in total:				100.00		1000000

Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

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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