



Material Content Data Sheet



Halogen-Free

Sales Product Name	IKQ50N120CH3	Issued	17. February 2022
MA#	MA005619477		
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	9.050	0.13	0.13	1312	1312
chip_2	inorganic material	silicon	7440-21-3	17.598	0.26	0.26	2550	2550
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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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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