



Material Content Data Sheet



Halogen-Free

Sales Product Name	IKQ40N120CH3	Issued	10. May 2021
MA#	MA001620114		
Package	PG-TO247-3-46	Weight*	6896.50 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	12.542	0.18	0.18	1819	1819
chip_2	inorganic material	silicon	7440-21-3	7.262	0.11	0.11	1053	1053
leadframe	inorganic material	phosphorus	7723-14-0	1.220	0.02		177	
	non noble metal	iron	7439-89-6	4.066	0.06		590	
	non noble metal	copper	7440-50-8	4,060.901	58.87	58.95	588834	589601
wire	non noble metal	aluminium	7429-90-5	29.440	0.43	0.43	4269	4269
encapsulation	organic material	carbon black	1333-86-4	20.467	0.30		2968	
	plastics	epoxy resin	-	388.880	5.64		56388	
	inorganic material	silicondioxide	60676-86-0	1,637.391	23.74	29.68	237423	296779
leadfinish	non noble metal	tin	7440-31-5	33.555	0.49	0.49	4866	4866
plating	non noble metal	nickel	7440-02-0	2.052	0.03	0.03	298	298
solder	non noble metal	antimony	7440-36-0	0.989	0.01		143	
	noble metal	silver	7440-22-4	2.472	0.04		358	
	non noble metal	tin	7440-31-5	6.428	0.09	0.14	932	1433
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	9.98	9.99	99752	99882
*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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