



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	IKQ40N120CH3	<b>Issued</b>	17. February 2022
<b>MA#</b>	MA005619474		
<b>Package</b>	PG-TO247-3-46	<b>Weight*</b>	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	7.262	0.11	0.11	1053	1053
chip_2	inorganic material	silicon	7440-21-3	12.542	0.18	0.18	1819	1819
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:

1. Infineon Technologies AG provides full material declaration based on information provided by third parties and has taken and continues to take reasonable steps to provide representative and accurate information.
2. Infineon Technologies AG and Infineon Technologies AG suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.
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.

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