



## Material Content Data Sheet



<b>Sales Product Name</b>		IKQ40N120CH3		<b>Issued</b>		24. January 2018		
<b>MA#</b>		MA001620114						
<b>Package</b>		PG-TO247-3-46		<b>Weight*</b>		6890.72 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	19.804	0.29	0.29	2874	2874
leadframe	non noble metal	iron	7439-89-6	4.066	0.06		590	
	inorganic material	phosphorus	7723-14-0	1.220	0.02		177	
	non noble metal	copper	7440-50-8	4060.901	58.94	59.02	589328	590095
wire	non noble metal	aluminium	7429-90-5	23.661	0.34	0.34	3434	3434
encapsulation	organic material	carbon black	1333-86-4	20.467	0.30		2970	
	plastics	epoxy resin	-	388.880	5.64		56435	
	inorganic material	silicondioxide	60676-86-0	1637.391	23.76	29.70	237622	297027
leadfinish	non noble metal	tin	7440-31-5	33.555	0.49	0.49	4870	4870
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		144	
	noble metal	silver	7440-22-4	2.472	0.04		359	
	non noble metal	tin	7440-31-5	6.428	0.09	0.14	933	1436
heatspreader	non noble metal	iron	7439-89-6	0.689	0.01		100	
	inorganic material	phosphorus	7723-14-0	0.207	0.00		30	
	non noble metal	copper	7440-50-8	687.941	9.98	9.99	99836	99966
*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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