



## Material Content Data Sheet



<b>Sales Product Name</b>				IKP40N65H5		<b>Issued</b>		20. July 2018	
<b>MA#</b>				MA001796304					
<b>Package</b>				PG-TO220-3-1		<b>Weight*</b>		2031.91 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	2.946	0.14	0.14	1450	1450	
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121		
	non noble metal	iron	7439-89-6	0.816	0.04		402		
	non noble metal	copper	7440-50-8	815.335	40.13	40.18	401265	401788	
	non noble metal	aluminium	7429-90-5	9.125	0.45	0.45	4491	4491	
wire	non noble metal	aluminium	7429-90-5	9.125	0.45	0.45	4491	4491	
encapsulation	organic material	carbon black	1333-86-4	5.890	0.29		2899		
	plastics	epoxy resin	-	111.904	5.51		55074		
	inorganic material	silicondioxide	60676-86-0	471.176	23.19	28.99	231889	289862	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10563	10563	
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		1		
	non noble metal	nickel	7440-02-0	0.244	0.01	0.01	120	121	
solder	non noble metal	antimony	7440-36-0	0.253	0.01		124		
	noble metal	silver	7440-22-4	0.632	0.03		311		
	non noble metal	tin	7440-31-5	1.642	0.08	0.12	808	1243	
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	iron	7439-89-6	0.590	0.03		290		
	non noble metal	copper	7440-50-8	589.466	29.01	29.05	290105	290482	
*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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